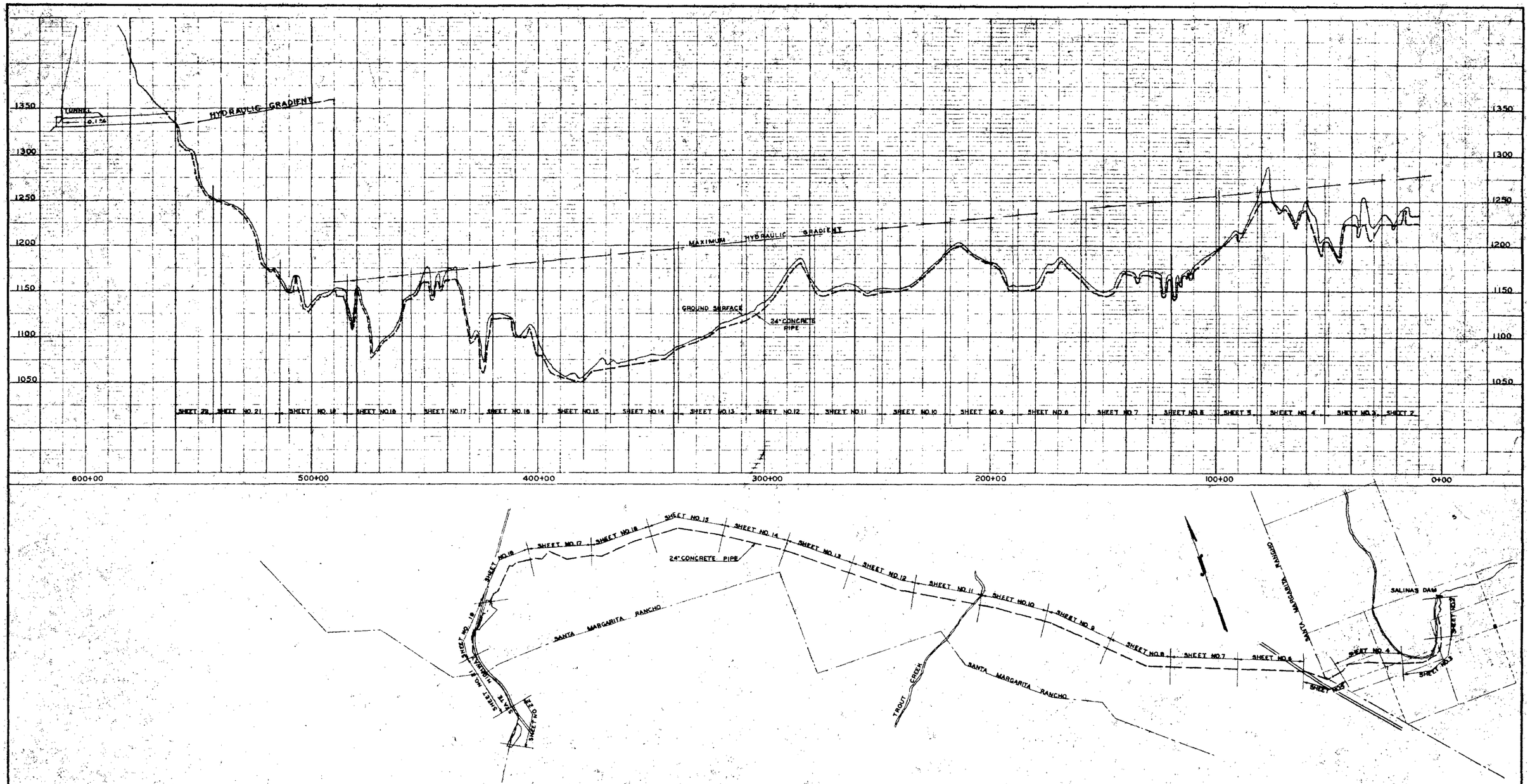


NOTE

INDEX SHEET FOR DRAWING SERIES NO. 6948-233. (FOR EXAMPLE: SHEET NO. 4 IS DRAWING NO. 6948-233.4)

SHEET NO. 1 & SHEET NO. 20 ARE NOT INCLUDED WITHIN THE SCOPE OF THIS DRAWING.

SHEETS 23, 24 & 25 ARE PLAN AND PROFILE OF STEEL LINE SOUTH OF TUNNEL.

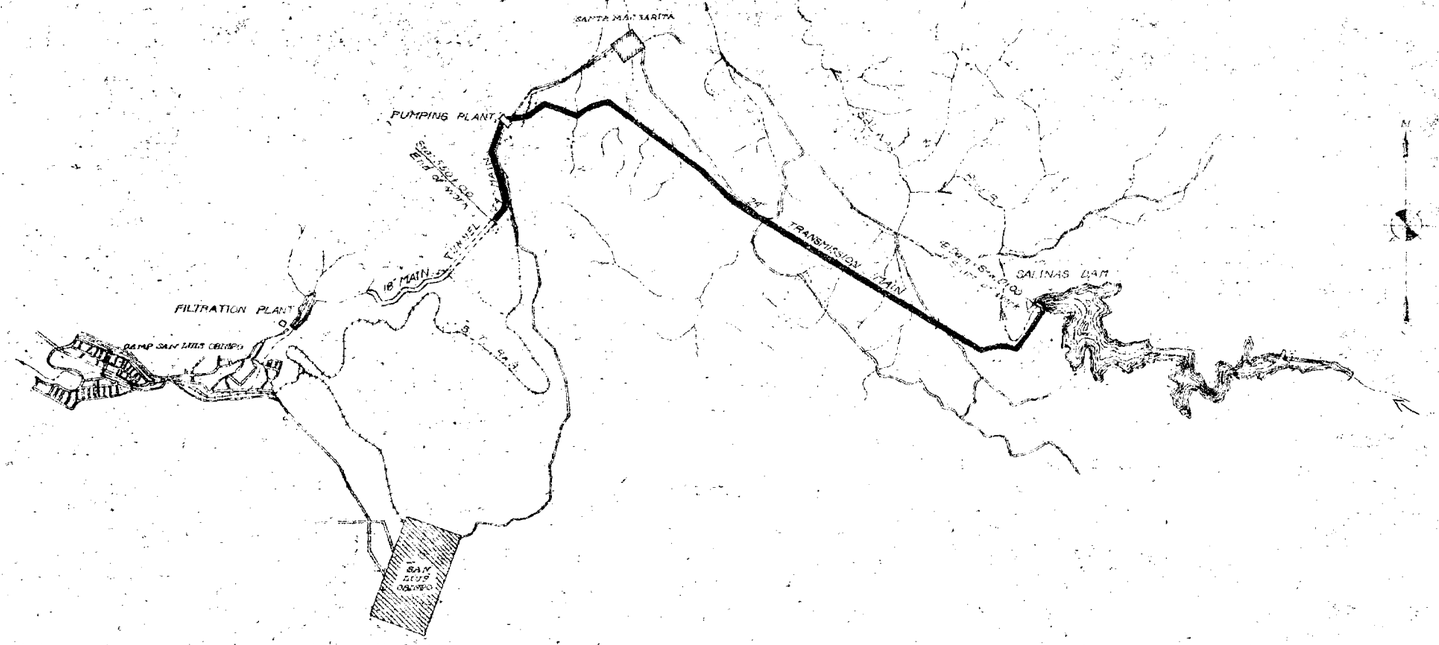
LEEDS, HILL, BARNARD & JEWETT

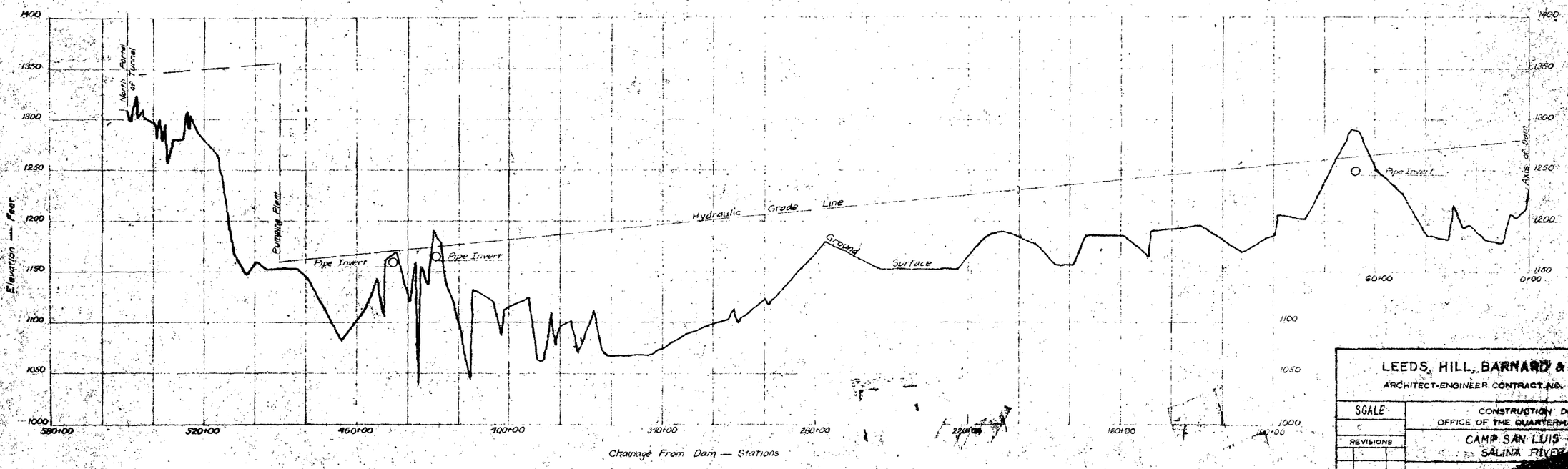
ARCHITECT-ENGINEER CONTRACT NO. W 6948 QM 12

SCALE	CONSTRUCTION DIVISION OFFICE OF THE QUARTERMASTER GENERAL
HORIZ 1" = 2000' VERT 1" = 50'	CAMP SAN LUIS OBISPO CALIFORNIA
REVISIONS	SALINAS RIVER PROJECT
	TRANSMISSION MAIN
	PLAN AND PROFILE INDEX SHEET

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
L.D.C.	JCH WBH RAH	D. Peterson MAJOR Q.M.C.	6/2/41
TRACED BY			PLAN NUMBER
R.M.W.			6948-233A

10-2/92





LEEDS, HILL, BARNARD & JEWETT

ARCHITECT-ENGINEER CONTRACT NO. 6948-QM19

SCALE

REVISIONS

CONSTRUCTION DIVISION
OFFICE OF THE QUARTERMASTER GENERAL

CAMP SAN LUIS OBISPO, CALIF.
SALINA RIVER [illegible]

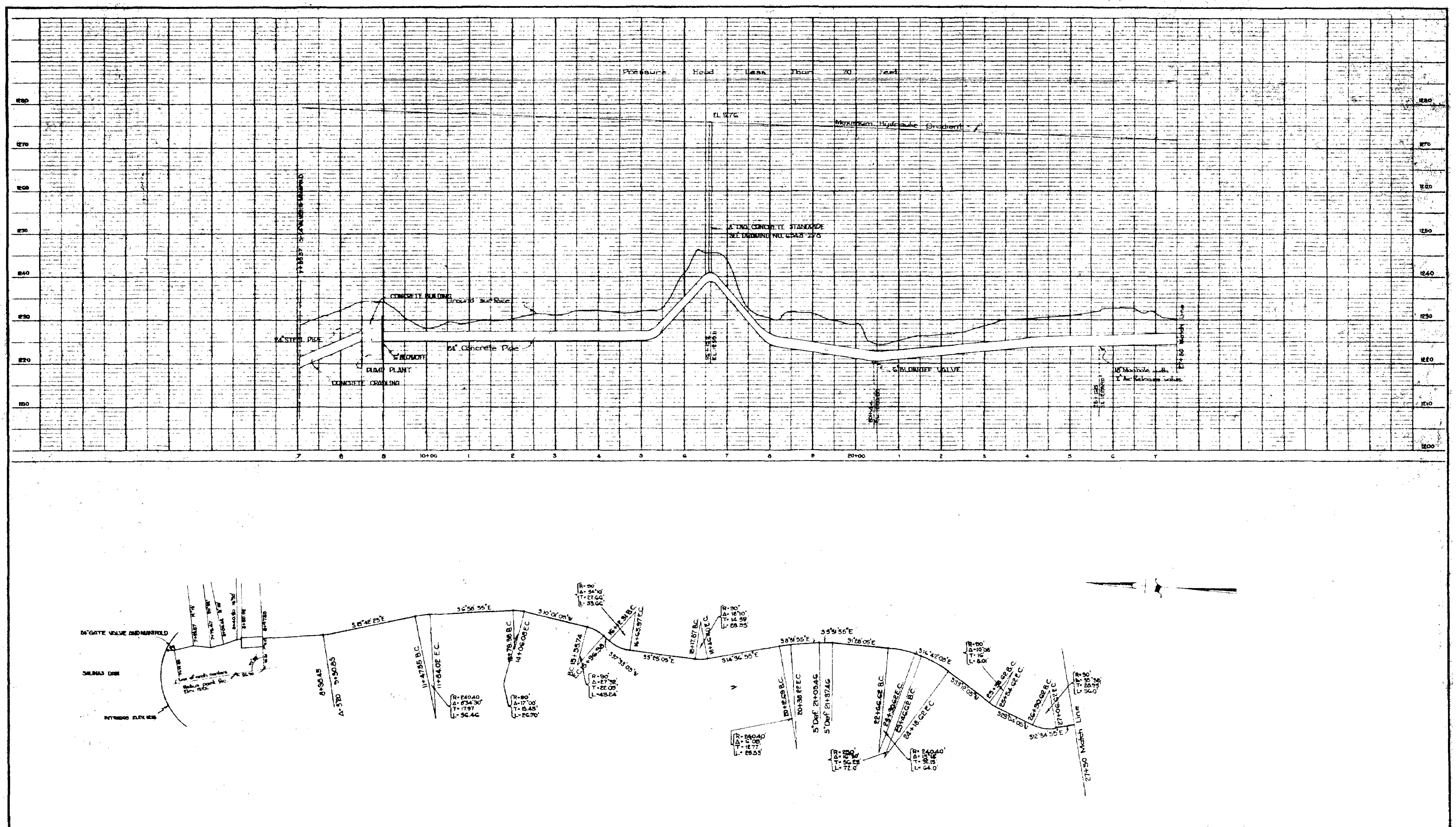
PRELIM[illegible]

DRAWN BY D.A.G. | CHECKED BY | BY DIRECTION | DATE 6-13-41

TRACED BY B.H.N. | PLAN NUMBER 6948-233-1

O.M.C.

10-E/9



NOTE
Bearings refer to U.S.C.&G.S. plane rectangular coordinate system, Zone 5 in California.

LEEDS, HILL, BARNARD & JEWETT
ARCHITECT-ENGINEER CONTRACT NO. W 6948 Q.M. 12

SCALE	
HORIZ. 1" = 100' VERT. 1" = 10'	CONSTRUCTION DIVISION OFFICE OF THE QUARTERMASTER GENERAL
REVISIONS	CAMP SAN LUIS OBISPO CALIFORNIA SALINAS RIVER PROJECT
	TRANSMISSION MAIN PLAN AND PROFILE STATION 10+00 STATION 27+50

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
		MAJ. ORD. M.C.	7/21/41
TRACED BY			PLAN NUMBER 6948-239.2

10-2/94

PRESSURE HEAD LESS THAN 70 FEET

PRESSURE 70 TO 120 FEET

Maximum Hydraulic Gradient

36" MANHOLE WITH 2" AIR RELEASE VALVE

6" BLOWOFF VALVE

+50 8 9 30 1 2 3 4 5 6 7 8 9 40 1 2 3 4 5 6 7 8 9 50 1 2

S 45° 25' 05" W

S 78° 57' 05" W

S 72° 21' 05" W

N 85° 28' 55" W

N 70° 24' 10" W

N 74° 06' 10" W

N 67° 38' 45" W

27+50 Match Line

52+00 Match Line

NOTE
Bearings refer to U.S.C. & G.S. plane rectangular coordinates system, Zone 3 in California.

LEEDS, HILL, BARNARD & JEWETT
ARCHITECT-ENGINEER CONTRACT NO. W 6948 QM 12

SCALE	CONSTRUCTION DIVISION
HORIZ. 1"=100' VERT. 1"=10'	OFFICE OF THE QUARTERMASTER GENERAL
REVISIONS	CAMP SAN LUIS OBISPO CALIFORNIA
	SALINAS RIVER PROJECT
	TRANSMISSION MAIN
	PLAN AND PROFILE
	STATION 27+50 STATION 52+00

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
	D.G.G.		7/21/8
TRACED BY			PLAN NUMBER 6948-1233.3

10-2/95

PRESSURE HEAD LESS THAN 70 FEET

MAXIMUM HYDRAULIC GRADIENT

8" AIR RELEASE VALVE & 18" MANHOLE

8" BLOWOFF VALVE

8" AIR RELEASE VALVE & 18" MANHOLE

8" BLOWOFF VALVE

18" MANHOLE

2" AIR RELEASE VALVE & 18" MANHOLE

2400' 24" CONCRETE PIPE

STATION 52+00 60+00 70+00 80+00

ELEVATIONS 1290 1270 1260 1250 1240 1230 1220 1210 1200 1190

EAST SEC. LINE

EASEMENT LINE

N 89° 32' 35" W

N 66° 30' 10" W

N 79° 41' 15" W

N 74° 28' 40" W

TRANSIT LINE

PIPE LINE

MATCH LINE

EASEMENT LINE

885.90' TO WEST SECTION LINE - SECTION 7/8

NOTE

BEARINGS REFER TO U.S.C.&G.S. PLANE RECTANGULAR COORDINATE SYSTEM, ZONE 6 IN CALIFORNIA.

LEEDS, HILL, BARNARD & JEWETT

ARCHITECT-ENGINEER CONTRACT NO. W 6945 QM 12

SCALE	CONSTRUCTION DIVISION
HORIZ 1"=100' VERT 1"=10'	OFFICE OF THE QUARTERMASTER GENERAL
REVISIONS	CAMP SAN LUIS OBISPO CALIFORNIA
⚠ 7/28/41 RCH	SALINAS RIVER PROJECT
⚠ 8/28/41 RCH	TRANSMISSION MAIN
	PLAN AND PROFILE
	STATION 52+00 — STATION 85+00

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
RCH	RCH		7/28/41
TRACED BY			PLAN NUMBER
M.R.			6946-2006-3

10-2/96

PRESSURE - HEAD, 4.639 PSIG. = 10 FEET

MAXIMUM HYDRAULIC GRADIENT

1270 1260 1250 1240 1230 1220 1210 1200 1190 1180

80+00 1 2 3 4 5 6 7 8 9 90+00 1 2 3 4 5 6 7 8 9 100+00 1 2 3

MATCH LINE

EL. 1250.0

STEEL PIPE, 0.250" thick, Bevel one end

EL. 1234.0

STEEL PIPE, 0.250" thick, Bevel one end

EL. 1220.0

STEEL PIPE, 0.250" thick, Bevel one end

2" AIR RELEASE VALVE & 18" MANHOLE

EL. 1205.0

8" BLOW-OFF VALVE

EL. 1204.5

STEEL PIPE, 0.250" thick, Bevel one end

MATCH LINE

FENCE LINE

NOTE

BEARINGS REFER TO U.S.C.&G.S. PLANE RECTANGULAR COORDINATE SYSTEM, ZONE 6 IN CALIFORNIA

S 40°43' E REC. (188.32')

EASEMENT LINE

RANCHO SANTA MARGARITA SEC. 7 T 30 S R 14 E

TRANSIT LINE

STATION 82+72.2 BK. EQUALS STATION 82+87.00 AHD.

SECTION TIE

82+72.2 B.C. PIPE LINE

EFFECT E.C. PIPE LINE S 40°43' E REC. 287.00'

Δ = 69°48'15"
R = 133.25'
T = 96.75'
L = 162.35'

SM NO. 38

88.49

N 48° 44' 27" W 100' EASEMENT

82+87.00 E.C. PIPE LINE

S 60° 32' 50" W

MATCH LINE

82+20.0 PIPE LINE

S 51.30 EAST (REC.)

EASEMENT LINE

N 48° 44' 27" W 1916.92' REC.

RANCHO SANTA MARGARITA SEC. 7 T 30 S R 14 E

NW COR. SEC. 7

Δ = 17°08'15"
R = 550.40'
T = 82.25'
L = 164.66'

PIPE LINE 362+36.12 B.C.

82.25' 17°08'15" PIPE LINE

N 65° 22' 30" W

N 65° 55' 45" W

TRANSIT STA. 363+84.78

TRANSIT LINE 232.82' RT.

363+84.78 SECTION

50.00'

MATCH LINE & POSO ROAD

LEEDS, HILL, BARNARD & JEWETT

ARCHITECT-ENGINEER CONTRACT NO. 6948 QM 12

SCALE
HORIZ. 1"=100'
VERT. 1"=10'

REVISIONS
△ 8/29/41 JCH

CONSTRUCTION DIVISION
OFFICE OF THE QUARTERMASTER GENERAL

CAMP SAN LUIS OBISPO, CALIFORNIA

SALINAS RIVER PROJECT

TRANSMISSION MAIN

PLAN AND PROFILE

STATION 82+00 TO ℄ POSO ROAD

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
F.C.H.			7/21/41
TRACED BY			PLAN NUMBER
E.R.C.		MAJOR G.S.C.	6948-288.5

10-2197

PRESSURE HEAD LESS THAN 70 FEET

PRESSURE HEAD 70 FEET TO 120 FEET

8" MANHOLE WITH 2" AIR RELEASE VALVE

2" AIR RELEASE VALVE

6" BLOWOFF VALVE

8" MANHOLE

N 66° 55' 40" W

100 FT. Easement

MAST LINE

ROAD MIX

SUB GRADE

BACK FILL AREA

CENTRIFUGALLY SPUN CONCRETE PIPE WORKING STRENGTH PER LINEAL FOOT EQUALS 4800 POUNDS

POZO ROAD CROSSING

CONSTRUCTION DETAILS

Scale ½"-1'-0"

NOTE
Bearings refer to U.S.C. & G.S. plane rectangular coordinate system, Zone 5 in California

LEEDS, HILL, BARNARD & JEWETT

ARCHITECT-ENGINEER CONTRACT NO. 6948 QM 12

SCALE
HORIZ. 1" = 100'
VERT. 1" = 10'

REVISIONS

CONSTRUCTION DIVISION
OFFICE OF THE QUARTERMASTER GENERAL
CAMP SAN LUIS OBISPO, CALIFORNIA
SALINAS RIVER PROJECT
TRANSMISSION MAIN
PLAN AND PROFILE
& POZO ROAD TO STATION 128+00

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
Quade	[illegible]	L. L. Leeds MAJOR, C.E.	7/15/51
TRACED BY			PLAN NUMBER
Sherwood			6948 - 125 - 9

10-2/98

PRESSURE HEAD 70 FEET TO 120 FEET

MATCH LINE 12+00

24" CONCRETE PIPE

8" BLOW-OFF VALVE

2" AIR RELEASE VALVE & 18" MANHOLE

GROUND SURFACE

8" BLOW-OFF VALVE

24" CONCRETE PIPE

2" AIR RELEASE VALVE & 18" MANHOLE

MATCH LINE 158+00

128+00 9 130 1 2 3 4 5 6 7 8 9 140 1 2 3 4 5 6 7 8 9 150 1 2 3 4 5 6 7 158

MATCH LINE 128+00 PIPE LINE = 126+84.40 TRANSIT LINE

N 66° 53' 40" W

100' EASEMENT

158+00 PIPE LINE = 156+84.40 TRANSIT LINE

MATCH LINE

NOTE

BEARINGS REFER TO U.S.C. & G.S. PLANE RECTANGULAR COORDINATE SYSTEM ZONE 5 IN CALIFORNIA

LEEDS, HILL, BARNARD & JEWETT

ARCHITECT-ENGINEER CONTRACT NO. 6948 Q.M.12

SCALE	CONSTRUCTION DIVISION OFFICE OF THE QUARTERMASTER GENERAL
HORIZ. 1"=100' VERT. 1"=10'	CAMP SAN LUIS OBISPO, CALIFORNIA
REVISIONS	SALINAS RIVER PROJECT
⚠ 8/26/41 JCH	TRANSMISSION MAIN
⚠ 9/26/41 JCH	PLAN AND PROFILE
	STATION 128+00 TO STATION 158+00

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
F.C.H.	JCH WHH	D.D. Lewis MAJOR Q.M.C.	7/21/41
TRACED BY R.M.Y.			PLAN NUMBER 6948-2-33-7

10-2/99

PRESSURE HEAD 70 FEET TO 120 FEET

PRESSURE HEAD LESS THAN 70 FEET

PRESSURE HEAD 70 FEET TO 120 FEET

2" AIR RELEASE VALVE & 18" MANHOLE

MATCH LINE 156+00 P.I.=1 159+50.40 TRANSIT LINE

GROUND SURFACE

18" MANHOLE

6" BLOW-OFF VALVE

24" CONCRETE PIPE

MATCH LINE 168+00 P.I.=1 169+64.84 TRANSIT LINE

157+00 158+00 9 160+00 1 2 3 4 5 6 7 8 9 170+00 1 2 3 4 5 6 7 8 9 180+00 1 2 3 4 5 6 7 168+00

1230 1220 1210 1200 1190 1180 1170 1160 1150 1140

170+70.69 P.I.=2 TRANSIT LINE

N 44° 08' 10" W

100' EASEMENT

190+25.51 P.I.=3 PIPE LINE

168+84.38 B.C. PIPE LINE

R - 603.11'
T - 121.36'
Δ - 22°45'20"
L - 240.56'

N 66° 53' 30" W

100' EASEMENT

MATCH LINE

156+00 P.I.=1 159+50.40 TRANSIT LINE

168+00 P.I.=1 169+64.84 TRANSIT LINE

NOTE.
BEARINGS REFER TO U.S.C.&G.S. PLANE RECTANGULAR CO-ORDINATE SYSTEM ZONE 5 IN CALIFORNIA.

LEEDS, HILL, BARNARD & JEWETT
ARCHITECT-ENGINEER CONTRACT NO. W 6946 qm-12

SCALE
HORIZ. 1"=100'
VERT. 1"=10'

REVISIONS

CONSTRUCTION DIVISION
OFFICE OF THE QUARTERMASTER GENERAL

CAMP SAN LUIS OBISPO, CALIFORNIA.

SALINAS RIVER PROJECT

TRANSMISSION MAIN
PLAN AND PROFILE
STATION 156+00 TO STATION 168+00

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
F.C.H.	FCH	R.P. Lewis MAJOR Q.M.C.	7/22/41
TRACED BY R.M.Y.			PLAN NUMBER 6946-233.8

10-27/100

PRESSURE HEAD 70 TO 120 FEET

PRESSURE HEAD LESS THAN 70 FEET

MAXIMUM HYDRAULIC GRADIENT

OVERFLOW ELEV 1227.2

4" STANDPIPE 215+00

GROUND SURFACE

18" MANHOLE

EL 1205.0

188+00 PIPE LINE 188+84.84 TRANSIT LINE

MATCH LINE

218+00 PIPE LINE 219+85.04 TRANSIT LINE

MATCH LINE

188+00 9 190+00 1 2 3 4 5 6 7 8 9 200+00 1 2 3 4 5 6 7 8 9 210+00 1 2 3 4 5 6 7 8 218+00

1230 1220 1210 1200 1190 1180 1170 1160

MATCH LINE

188+00 PIPE LINE 188+84.84 TRANSIT LINE

N 44° 08' 10" W

24" CONCRETE PIPE

100' EASEMENT

R - 450'
T - 38.07'
Δ - 9°09'40"
L - 71.94'

215+44.48 B.C. PIPE LINE

216+16.42 E.C. PIPE LINE

218+00 PIPE LINE 219+85.04 TRANSIT LINE

N 53°17'55" W

217+45.39 P.I. TRANSIT LINE P.I. #3

MATCH LINE

N

NOTE
BEARINGS REFER TO U.S.C.&G.S. PLANE RECTANGULAR CO-ORDINATE SYSTEM, ZONE 5 IN CALIFORNIA

LEEDS, HILL, BARNARD & JEWETT
ARCHITECT-ENGINEER CONTRACT NO. W 6848 qm-12

SCALE	
HORIZ 1"= 100' VERT. 1"= 10'	
REVISIONS	
⚠1 8/28/41	JCW
⚠2 8/29/41	JCW

CONSTRUCTION DIVISION
OFFICE OF THE QUARTERMASTER GENERAL
CAMP SAN LUIS OBISPO, CALIFORNIA
SALINAS RIVER PROJECT
TRANSMISSION MAIN
PLAN AND PROFILE
STATION 188+00 TO STATION 218+00

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
F.C.H.	F.C.H.		7-23-41
TRACED BY R.M.T.	R.M.T.	O.P. Chapman MAJOR, A.M.C.	PLAN NUMBER 6848-233.9

10-27-101

PRESSURE HEAD LESS THAN 70 FEET

PRESSURE HEAD 70 TO 120 FEET

MAXIMUM HYDRAULIC GRADIENT

MATCH LINE 218+00 PIPE LINE = 218+83.04 TRANSIT LINE

18" MANHOLE

MATCH LINE 248+00 PIPE LINE = 248+83.11 TRANSIT LINE

218+00 9 220+00 1 2 3 4 5 6 7 8 9 230+00 1 2 3 4 5 6 7 8 9 240+00 1 2 3 4 5 6 7 248+00

1230 1220 1210 1200 1190 1180 1170 1160

100 EASEMENT

N 53° 17' 50" W

24" CONCRETE PIPE

Δ = 45.0°
T = 23.38'
L = 3°56'30"
R = 46.65'

240+30.73 P.C. PIPE LINE

240+97.44 E.C. PIPE LINE

N 59° 14' 25" W

242+39.19 P.I. PIPE LINE = TRANSIT LINE

NOTE
BEARINGS REFER TO U.S.C.&G.S. PLANE RECTANGULAR CO-ORDINATE SYSTEM, ZONE 5 IN CALIFORNIA.

LEEDS, HILL, BARNARD & JEWETT
ARCHITECT-ENGINEER CONTRACT NO. W 6948 qm-12

SCALE	CONSTRUCTION DIVISION
HORIZ 1"= 100' VERT 1"= 10'	OFFICE OF THE QUARTERMASTER GENERAL
REVISIONS	CAMP SAN LUIS OBISPO, CALIFORNIA
Δ 8/29/41 ZH	SALINAS RIVER PROJECT
	TRANSMISSION MAIN
	PLAN AND PROFILE
	STATION 218+00 TO STATION 248+00

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
F.C.H	ZH	O.P. Lewis MAJOR, C.E.	7/23/41
TRACED BY R.M.Y.			PLAN NUMBER 6948-233.10

10-2/102

PRESSURE HEAD 70 TO 20 FEET

PRESSURE HEAD LESS THAN 70 FEET

MAXIMUM HYDRAULIC GRADIENT

MATCH LINE 248+00 PIPE LINE = 249+85.11 TRANSIT LINE

MATCH LINE 278+00 PIPE LINE = 279+85.11 TRANSIT LINE

2" AIR RELEASE VALVE & 18" MANHOLE

6" BLOW-OFF VALVE

2" AIR RELEASE VALVE & 18" MANHOLE

6" BLOWOFF VALVE

248+00 9 250+00 1 2 3 4 5 6 7 8 9 260+00 1 2 3 4 5 6 7 8 9 270+00 1 2 3 4 5 6 7 278+00

254+70 ELEVATION

255+12 ELEVATION

272+08 ELEVATION

MATCH LINE 248+00 PIPE LINE = 249+85.11 TRANSIT LINE

N59°14'25"W

24" CONCRETE PIPE

100' EASEMENT

MATCH LINE 278+00 PIPE LINE = 279+85.11 TRANSIT LINE

NOTE

BEARINGS REFER TO U.S.C.&G.S. PLANE RECTANGULAR CO-ORDINATE SYSTEM, ZONE 5 W. CALIFORNIA

LEEDS, HILL, BARNARD & JEWETT

ARCHITECT-ENGINEER CONTRACT NO. w6948 qm-12

SCALE	
HORIZ 1" = 100' VERT 1" = 10'	
REVISIONS	
1	8/26/41 RCM
2	8/29/41 RCM

CONSTRUCTION DIVISION
OFFICE OF THE QUARTERMASTER GENERAL
CAMP SAN LUIS OBISPO, CALIFORNIA
SALINAS RIVER PROJECT
TRANSMISSION MAIN
PLAN AND PROFILE
STATION 248+00 TO STATION 278+00

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
F.C.H.			7/25/41
TRACED BY R.M.Y.			DRAWING NUMBER 6948-233.11

10-27103

PRESSURE HEAD LESS THAN 70 FEET

PRESSURE HEAD 70 TO 120 FEET

OVERFLOW ELEV 1210.2'

MAXIMUM HYDRAULIC GRADIENT

8" STANDPIPE STA. 284+17

MATCH LINE 278+00 PIPE LINE = 278+65.11 TRANSIT LINE

MATCH LINE 308+00 PIPE LINE = 309+65.33 TRANSIT LINE

15" MANHOLE

INVERT OF PIPE AS CONSTRUCTED

VOID

278+00 9 280+00 1 2 3 4 5 6 7 8 9 290+00 1 2 3 4 5 6 7 8 9 300+00 1 2 3 4 5 6 7 8 300+00

1210 1200 1190 1180 1170 1160 1150 1140 1130 1120

278+100 PIPE LINE = 278+65.11 TRANSIT LINE

N 59° 14' 25" W

285+75.89 P.I. TRANSIT LINE P.L. #5

283+71.89 B.C. PIPE LINE

284+49.07 E.C. PIPE LINE

P.I. - 1 - 1 - R
450'
38.71'
9°20'
77.20'

N 49° 24' 05" W

24" CONCRETE PIPE

100 EASEMENT

N 49° 23' 50" W

308+32.89 P.I. P.L. #4

308+00 PIPE LINE = 309+65.33 TRANSIT LINE

MATCH LINE

NOTE

BEARINGS REFER TO U.S.C. & G.S. PLANE, RECTANGULAR CO-ORDINATE SYSTEM, ZONE 5 IN CALIFORNIA

LEEDS, HILL, BARNARD & JEWETT

ARCHITECT-ENGINEER CONTRACT NO. 6948-QM-12

SCALE	CONSTRUCTION DIVISION
HORIZ. 1" = 100' VERT. 1" = 10'	OFFICE OF THE QUARTERMASTER GENERAL
REVISIONS	CAMP SAN LUIS OBISPO, CALIFORNIA
⚠ 8/26/41 RCH	SALINAS RIVER PROJECT
⚠ 8/29/41 RCH	TRANSMISSION MAIN
	PLAN AND PROFILE
	STATION 278+00 TO STATION 308+00

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
H.R.T.	R.C.H.	D. D. Lane MAJOR Q.M.C.	7/24/41
TRACED BY H.R.T.			PLAN NUMBER 6948-233.12

10-2.1104

PRESSURE HEAD 70 TO 120 FEET

308+00 PIPE LINE = 309+65.33 TRANSIT LINE

MATCH LINE

18" MANHOLE

VOID

EL INVERT AS CONSTRUCTED

EL 1106.54

EL 1106.54

18" MANHOLE

VOID

EL INVERT AS CONSTRUCTED

EL INVERT AS CONSTRUCTED

336+00 PIPE LINE = 339+65.33 TRANSIT LINE

MATCH LINE

1180 1170 1160 1150 1140 1130 1120 1110 1100 1090 1080

308+00 9 310+00 1 2 3 4 5 6 7 8 9 320+00 1 2 3 4 5 6 7 8 9 330+00 1 2 3 4 5 6 7 338+00

308+00 PIPE LINE = 309+65.33 TRANSIT LINE

MATCH LINE

N 49° 23' 50" W

24" CONCRETE PIPE

100 EASEMENT

336+00 PIPE LINE = 339+65.33 TRANSIT LINE

MATCH LINE

NOTE

BEARINGS REFER TO U.S.C. & G.S. PLANE RECTANGULAR CO-ORDINATE SYSTEM, ZONE 5 IN CALIFORNIA

LEEDS, HILL, BARNARD & JEWETT

ARCHITECT-ENGINEER CONTRACT NO. 6948-QM-12

SCALE	CONSTRUCTION DIVISION OFFICE OF THE QUARTERMASTER GENERAL
HORIZ. 1" = 100' VERT. 1" = 10'	CAMP SAN LUIS OBISPO, CALIFORNIA
REVISIONS	SALINAS RIVER PROJECT
① 8/29/41	TRANSMISSION MAIN
	PLAN AND PROFILE
	STATION 308+00 TO STATION 338+00

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
F. C. H.			7/23/41
TRACED BY			PLAN NUMBER
R. M. Y.		MAJOR E.M.C.	6948-233.13

10-2 1105

PRESSURE HEAD 20 FT. TO 120 FT.

PRESSURE HEAD 120 FT. TO ① HEAD

338+00 PIPE LINE = 339+65.33 TRANSIT LINE

18" MANHOLE

18" MANHOLE

Invert of Pipe as Constructed

Invert of Pipe as Constructed

368+00 PIPE LINE = 369+65.40 TRANSIT LINE

338+00 9 340+00 1 2 3 4 5 6 7 8 9 350+00 1 2 3 4 5 6 7 8 9 360+00 1 2 3 4 5 6 7 8 368+00

1150 1140 1130 1120 1110 1100 1090 1080 1070

338+00 PIPE LINE = 339+65.33 TRANSIT LINE

MATCH LINE

N 48° 23' 50" W

339+47.50 B.C. PIPE LINE

R - 450'
T - 27.06'
Δ - 6°53'10"
L - 54.06'

340+01.56 E.C. PIPE LINE

341+39.89 P.I. P.I. # 6

100 FT. EASEMENT

N 56° 17' 00" W

24" CONCRETE PIPE

368+00 PIPE LINE = 369+65.40 TRANSIT LINE

MATCH LINE

NOTE

BEARINGS REFER TO U.S.C. & G.S. PLANE RECTANGULAR COORDINATE SYSTEM, ZONE 5 IN CALIFORNIA.

LEEDS, HILL, BARNARD & JEWETT

ARCHITECT-ENGINEER CONTRACT NO. 6948 QM 12

SCALE
HORIZ. 1"=100'
VERT. 1"=10'

REVISIONS
① 8/29/41

CONSTRUCTION DIVISION
OFFICE OF THE QUARTERMASTER GENERAL

CAMP SAN LUIS OBISPO, CALIFORNIA
SALINAS RIVER PROJECT

TRANSMISSION MAIN
PLAN AND PROFILE
STATION 338+00 TO STATION 368+00

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
F. C. H.			7/27/41
TRACED BY			PLAN NUMBER
R. M. Y.		MAJOR Q.M.C.	6948-233-56

10-2/106

PRESSURE HEAD 120 FEET TO 140 FEET

PRESSURE HEAD 70 FEET TO 120 FEET

368+00 PIPE LINE = 369+83.40 TRANSIT LINE

MATCH LINE

1ST MANHOLE

ELEV 1080.41

ELEV 1080.27

Invert of pipe as constructed

18" MANHOLE

ELEV 1079.5

ELEV 1079.32

ELEV 1080.10

4" BLOWOFF VALVE

ELEV 1080.20

ELEV 1080.80

398+00 PIPE LINE = 398+80.40 TRANSIT LINE

MATCH LINE

ELEV 1080.65

397+50

398+75

ELEV 1080.20

368+00 9 370+00 1 2 3 4 5 6 7 8 9 380+00 1 2 3 4 5 6 7 8 9 390+00 1 2 3 4 5 6 7 398+00

1130 1120 1110 1100 1090 1080 1070 1060 1050

MATCH LINE

368+00 PIPE LINE = 369+83.40 TRANSIT LINE

N 56° 17' 00" W

TRANSIT LINE 375+17.49 P.I. # 7

R = 450'
T = 18.86'
Δ = 4°47'50"
L = 37.68'

373+33.23 B.C.

373+70.91 E.C.

PIPE LINE

N 61° 04' 30" W

24" CONCRETE PIPE

R = 450'
T = 100.0'
Δ = 25°04'45"
L = 197.0'

383+07.79 B.C.

PIPE LINE

383+04.79 E.C.

TRANSIT LINE 387+23.19 P.I. # 8

N 86° 09' 35" W

100' EASEMENT

24" CONCRETE PIPE

398+80.40 PIPE LINE = 399+80.40 TRANSIT LINE

MATCH LINE

NOTE
BEARINGS REFER TO U.S.C. & G.S. PLANE RECTANGULAR CO-ORDINATE SYSTEM, ZONE 5 IN CALIFORNIA

LEEDS, HILL, BARNARD & JEWETT
ARCHITECT-ENGINEER CONTRACT NO. W 6948 QM 12

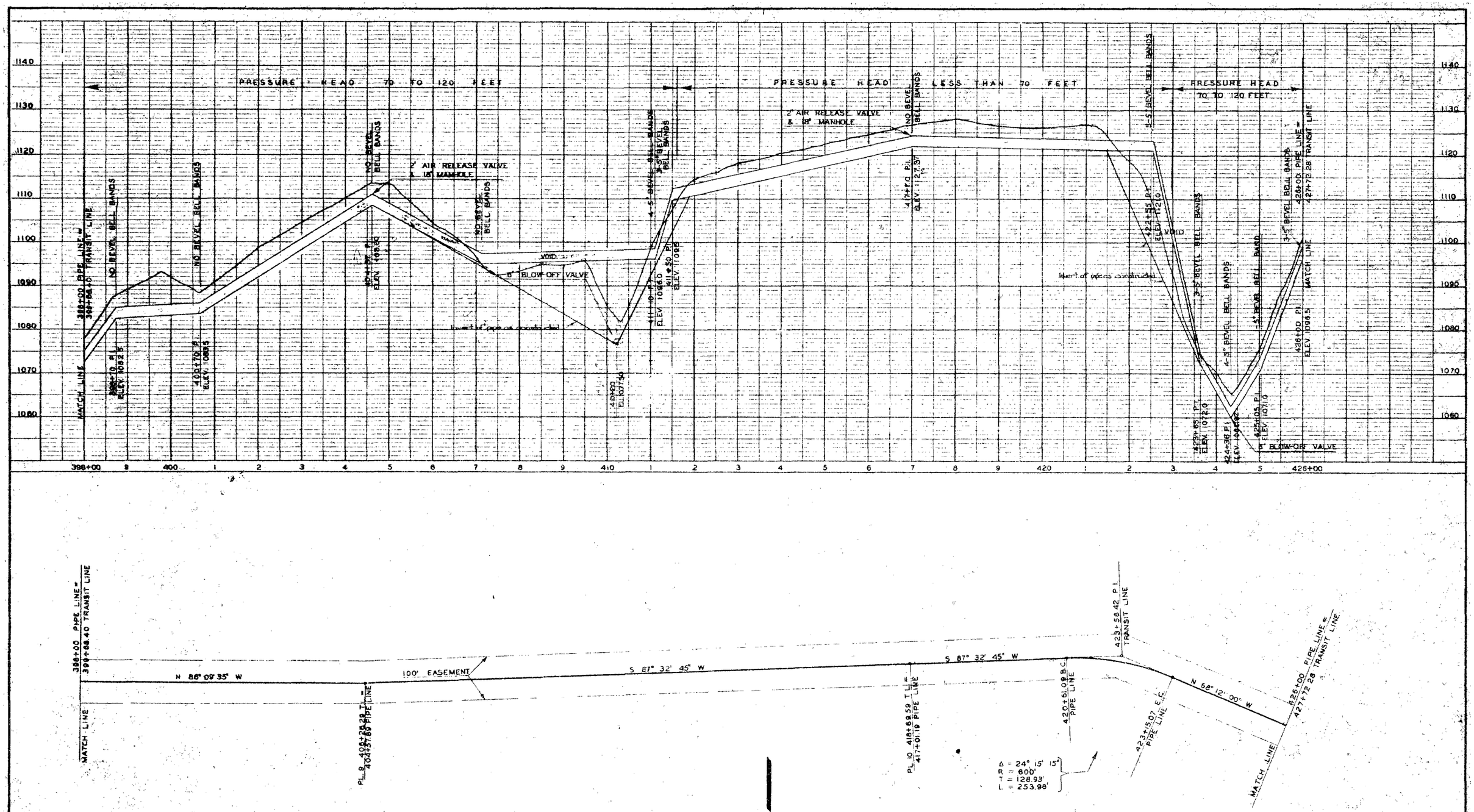
SCALE
HORIZ. 1" = 100'
VERT. 1" = 10'

REVISIONS

CONSTRUCTION DIVISION
OFFICE OF THE QUARTERMASTER GENERAL
CAMP SAN LUIS OBISPO CALIFORNIA
SALINAS RIVER PROJECT
TRANSMISSION MAIN
PLAN AND PROFILE
STATION 368+00 TO STATION 398+00

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
F.C.H.	RCH	D. P. Lane, MAJOR Q.M.C.	7/29/61
TRACED BY			PLAN NUMBER
R.M.Y.			6948 238.15

10-2/107



NOTE

BEARINGS REFER TO U.S.C. & G.S. PLANE RECTANGULAR COORDINATE SYSTEM, ZONE 5 IN CALIFORNIA

LEEDS, HILL, BARNARD & JEWETT

ARCHITECT-ENGINEER CONTRACT NO. W 6948-eng 12

SCALE HORIZ. 1"=100' VERT. 1"=10'	CONSTRUCTION DIVISION, OFFICE OF THE QUARTERMASTER GENERAL
REVISIONS	CAMP SAN LUIS OBISPO CALIFORNIA
	SALINAS RIVER PROJECT
	TRANSMISSION MAIN PLAN AND PROFILE STATION 398+00 TO STATION 426+00
DRAWN BY F.C.H. / TRACED BY R.M.W.	CHECKED BY / APPROVED BY DIRECTION MAJOR Q.M.C.
DATE 9/2/41	PLAN NUMBER 6948-233-16

10-2/108

PRESSURE HEAD 70 TO 120 FEET

PRESSURE HEAD LESS THAN 70 FEET

MAXIMUM HYDRAULIC GRADIENT

4" DIAMETER STANDPIPE ELEV 1170 SEE DETAIL

2" AIR RELEASE VALVE & 18" MANHOLE

6" BLOWOFF VALVE

VOID

426+00 PIPE LINE 427+72.28 TRANSIT LINE

427+79 P.I. ELEV 1085.2

427+92.28 P.C. ELEV 1082.0

429+20 P.I. ELEV 1060.0

429+72.28 P.T. ELEV 1092.8

434+39 P.I. ELEV 1147.0

435+10 P.I. ELEV 1130.5

436+35 P.I. ELEV 1163.0

437+08 P.C. ELEV 1172.5

442+75 P.I. ELEV 1161.6

443+10 P.I. ELEV 1154.4

444+37 P.T. ELEV 1162.2

446+00 P.I. ELEV 1161.0

448+00 P.I. ELEV 1144.0

448+65 P.I. ELEV 1160.5

452+08 P.C. ELEV 1152.5

453+65 P.I. ELEV 1159.0

455+55 P.I. ELEV 1155.6

456+00 PIPE LINE 457+99.45 TRANSIT LINE

MATCH LINE

426+00 PIPE LINE 427+72.28 TRANSIT LINE

427+28.84 B.C. PIPE LINE

426+31.26 E.C. PIPE LINE

Δ = 10° 22'
T = 4.50'
L = 81.42'

N 66° 12' 00" W

429+62.94 P.I. TRANSIT LINE

N 78° 34' 00" W

100' EASEMENT

436+45.77 P.I. TRANSIT LINE

Δ = 23° 52'
T = 90'
L = 232.05'
R = 557.46'

438+67.58 B.C. PIPE LINE

438+73.46 E.C. PIPE LINE

N 52° 35' 00" W

441+18.59 P.I. TRANSIT LINE

Δ = 5° 58'
T = 45.0'
L = 89.49'
R = 859.44'

439+13.57 B.C. PIPE LINE

439+80.71 E.C. PIPE LINE

N 42° 33' 00" W

Δ = 73° 48'
T = 90'
R = 67.57'
L = 115.92'

445+46.18 B.C.

446+62.10 E.C.

447+87.17 P.I. TRANSIT LINE

S 63° 39' 00" W

452+88.22 P.I. TRANSIT LINE

452+32.17 B.C.

N 64° 51' 00" W

Δ = 5° 30'
T = 90'
L = 43.41'
R = 809.0'

452+75.58 E.C.

Δ = 15° 30'
T = 45.0'
L = 44.32'
R = 164.44'

455+70.86 P.I. TRANSIT LINE

458+27.98 B.C. PIPE LINE

458+48.62 E.C. PIPE LINE

N 80° 26' 00" W

N 79° 06' 50" W

455+53.47 Δ = 4° 19' 30"

456+00 PIPE LINE 457+99.45 TRANSIT LINE

MATCH LINE

NOTE
BEARINGS REFER TO U.S.C. & G.S. PLANE RECTANGULAR COORDINATE SYSTEM, ZONE 5 IN CALIFORNIA

LEEDS, HILL, BARNARD & JEWETT
ARCHITECT-ENGINEER CONTRACT NO. W 6948- qm 12

SCALE HORIZ 1"=100' VERT 1"=10'	CONSTRUCTION DIVISION, OFFICE OF THE QUARTERMASTER GENERAL
REVISIONS	CAMP SAN LUIS OBISPO, CALIFORNIA
	SALINAS RIVER PROJECT
	TRANSMISSION MAIN
	PLAN AND PROFILE
	STATION 426+00 TO STATION 456+00
DRAWN BY F.C.H.	CHECKED BY
TRACED BY R.M.W.	APPROVED BY DIRECTION MAJOR Q.M.C.
DATE 9/2/41	PLAN NUMBER 6948-233.17

10-2/109

Pressure Head Less Than 70 Feet

Maximum Hydraulic Gradient

Pressure Head 70 To 120 Feet

Pressure Head Less Than 70 Feet

1160 1150 1140 1130 1120 1110 1100 1090 1080

456+00 7 8 9 460 1 2 3 4 5 6 7 8 9 470 1 2 3 4 5 6 7 8 9 480 1 2 3 4 5

MATCH LINE 456+00

457+85 EL 1145.8

18"MANHOLE WITH 2" AIR RELEASE VALVE

4" BLOWOFF VALVE

473+15 EL 1083.5

473+00 EL 1134.9

479+50 EL 1165.5

480+50 EL 1161.0

18"MANHOLE WITH 2" AIR RELEASE VALVE

6" BLOWOFF VALVE

483+00 EL 1141.6

MATCH LINE 484+08

MATCH LINE 456+00

N 80° 56' 00" W

460+84.76 B.C.

Δ = 25° 32'
R = 450'
T = 101.96'
L = 200.51'

462+86.27 E.C.

464+87.84 PIPE LINE-STEEL PIPE BEGIN.

464+82.84

S 74° 02' 00" W

R.R. R/W

R.R. BOX CULVERT
SEE DETAIL FOR CULVERT CROSSING

STEEL PIPE
24" DIA - 5/8" PLATE

466+82.71

B.R. R/W

484+08.21 PIPE LINE STEEL PIPE END

6" Pipe line

S 45° 12' 00" W

100' EASEMENT

R = 450'

474+95.21 B.C.

479+15.12 E.C.

Δ = 27° 59'
R = 450'
T = 112.20'
L = 219.51'

S 71° 11' 00" W
479+85.12 B.C.

Δ = 26° 58' 45"
R = 350.79'
T = 85.85'
L = 165.08'

482+50.97 E.C.

S 44° 17' 15" W

S 19° 13' 00" W

MATCH LINE 484+08

S 42° 53' 08" W

RESERVOIR

Δ = 23° 05'
R = 90'
T = 18.35'
L = 36.27

Pump House
(See Plan 6948-280)

Δ = 15° 32'
R = 50'
T = 12.18'
L = 24.97

STATE HIGHWAY

2.4'- 5/8" PL. STEEL PIPE IN CONCRETE FILLED 4'-0" CULVERT

7'-0"

RAILROAD CULVERT CROSSING
SCALE 1" = 10'

NOTE
BEARINGS REFER TO U.S.C.&G.S. PLANE RECTANGULAR COORDINATE SYSTEM, ZONE 5 IN CALIFORNIA

LEEDS, HILL, BARNARD & JEWETT
ARCHITECT-ENGINEER CONTRACT NO. W6948 QMI2

SCALE
HORIZ 1" = 100'
VERT 1" = 10'

REVISIONS

CONSTRUCTION DIVISION
OFFICE OF THE QUARTERMASTER GENERAL

CAMP SAN LUIS OBISPO CALIFORNIA
SALINAS RIVER PROJECT

TRANSMISSION MAIN
PLAN AND PROFILE
STATION 456+00 TO STATION 484+16.63

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
Removed	W.G.C.		9/2/41
TRACED BY			PLAN NUMBER
Removed		Maj. Jos. G. M. C.	6948-253.18

10-2/110

200 FT HEAD CONCRETE CYLINDER PIPE

MATCH LINE

NORMAL W.S.EL. 1158.

RESERVOIR

484+80 P.I. EL. 1160.0

485+00 P.I. EL. 1159.90

485+30 P.I. EL. 1158.0

488+00 P.I. EL. 1153.0

488+50 P.I. EL. 1149.0

488+68 P.C. EL. 1143.5

PUMP HOUSE

16" MANHOLE

16" Ø STEEL PIPE R = 1500

Δ = 37°20' NO BEVEL PIPE R = 1500

498+60 P.I. EL. 1144.0

498+95 P.I. EL. 1139.10

Δ = 2°02' R = 1500

Δ = 2°19' NO BEVEL PIPE R = 1500

500+05 P.I. EL. 1137.60

6" BLOWOFF VALVE

500+75 P.I. EL. 1139.0

Δ = 4°46' NO BEVEL PIPE R = 1500

24" CONCRETE PIPE

3" AIR RELEASE VALVE & 16" MANHOLE

GROUND SURFACE

Δ = 13°33' BEVEL PIPE R = 360

507+00 P.I. EL. 1118.50

Δ = 7°44' NO BEVEL PIPE R = 1500

509+15 P.I. EL. 1142.30

511+15 P.I. EL. 1144.80

Δ = 4°00' NO BEVEL PIPE R = 1500

6" BLOWOFF VALVE

Δ = 4°46' NO BEVEL PIPE R = 1500

512+93 P.I. EL. 1150.0

514+00 PIPE LINE & 28+00 96" TRANSIT LINE

MATCH LINE

484+00 485+00 486+00 487+00 488+00 489+00 490+00 491+00 492+00 493+00 494+00 495+00 496+00 497+00 498+00 499+00 500+00 501+00 502+00 503+00 504+00 505+00 506+00 507+00 508+00 509+00 510+00 511+00 512+00 513+00 514+00

1190 1180 1170 1160 1150 1140 1130 1120 1110 1100

TO SAN MIGUEL

TO SAN LUIS OBISPO

S 32° 30' 00" W 324.61'

S 10° 14' W

24" CONCRETE PIPE

PIPE LINE

S 36° 21' E 838.18'

0+00 TRANSIT LINE

484+80.23 PIPE LINE

484+80 PIPE LINE

RESERVOIR

24" DIA 1/4" R. STEEL PIPE

PUMP HOUSE

491+80 PIPE LINE 491+92.80

24"-45° ELBOWS

S 37° 50' 00" W

STATE HIGHWAY

STATE HIGHWAY R.O.W.

60'-0"

6+07 TRANSIT LINE = 492+22.80 PIPE LINE

15+30.00 TRANSIT LINE = 501+24.59 PIPE LINE

13+32.13 TRANSIT LINE = 499+38.72 PIPE LINE

Δ = 12° 36' 37"
R = 360'
T = 39.78
L = 79.24

S 21° 11' 00" W

502+18.87 B.C. PIPE LINE

503+63.96 E.C. PIPE LINE

17+29.16 TRANSIT LINE = 17+19.16 TRANSIT LINE

S 35° 52' 00" W

S 23° 15' 23" W

EASEMENT LINE

506+89.89 PIPE LINE = 20+85.42 TRANSIT LINE

STATE HIGHWAY R.O.W.

Δ = 21° 37'
R = 360'
T = 68.73
L = 135.82

511+89.98 PIPE LINE = 28+10.98 TRANSIT LINE

S 1° 38' 23" W

S 0° 00' 23" W

24"-45° ELBOWS

8" Pipe Line

MATCH LINE

NOTE

BEARINGS REFER TO U.S.C.&G.S. PLANE RECTANGULAR COORDINATE SYSTEM, ZONE 5 IN CALIFORNIA

NOTES

CURVE DATA FOR PLAN AND PROFILE BASED ON USE OF 30' PIPE SECTION WITH ALLOWABLE DEFLECTION OF ± 1° FOR STRAIGHT PIPE AND 5° ± 1° FOR BEVEL PIPE. ADJUSTMENT OF PIPE TO FIT FIELD CONDITIONS UNDER SUPERVISION OF FIELD ENGINEER.

3'-6"

CONCRETE ROAD

SUB GRADE

7'-2" MIN.

TRENCH TO BE BORED

24" I.D. CONCRETE PIPE

STATE HIGHWAY CROSSING
SCALE - 1"=2'-0"

LEEDS, HILL, BARNARD & JEWETT
ARCHITECT-ENGINEER CONTRACT NO. W 6948 eng-12

SCALE
HORIZ 1"=100'
VERT. 1"=10'
REVISIONS

CONSTRUCTION DIVISION
OFFICE OF THE QUARTERMASTER GENERAL

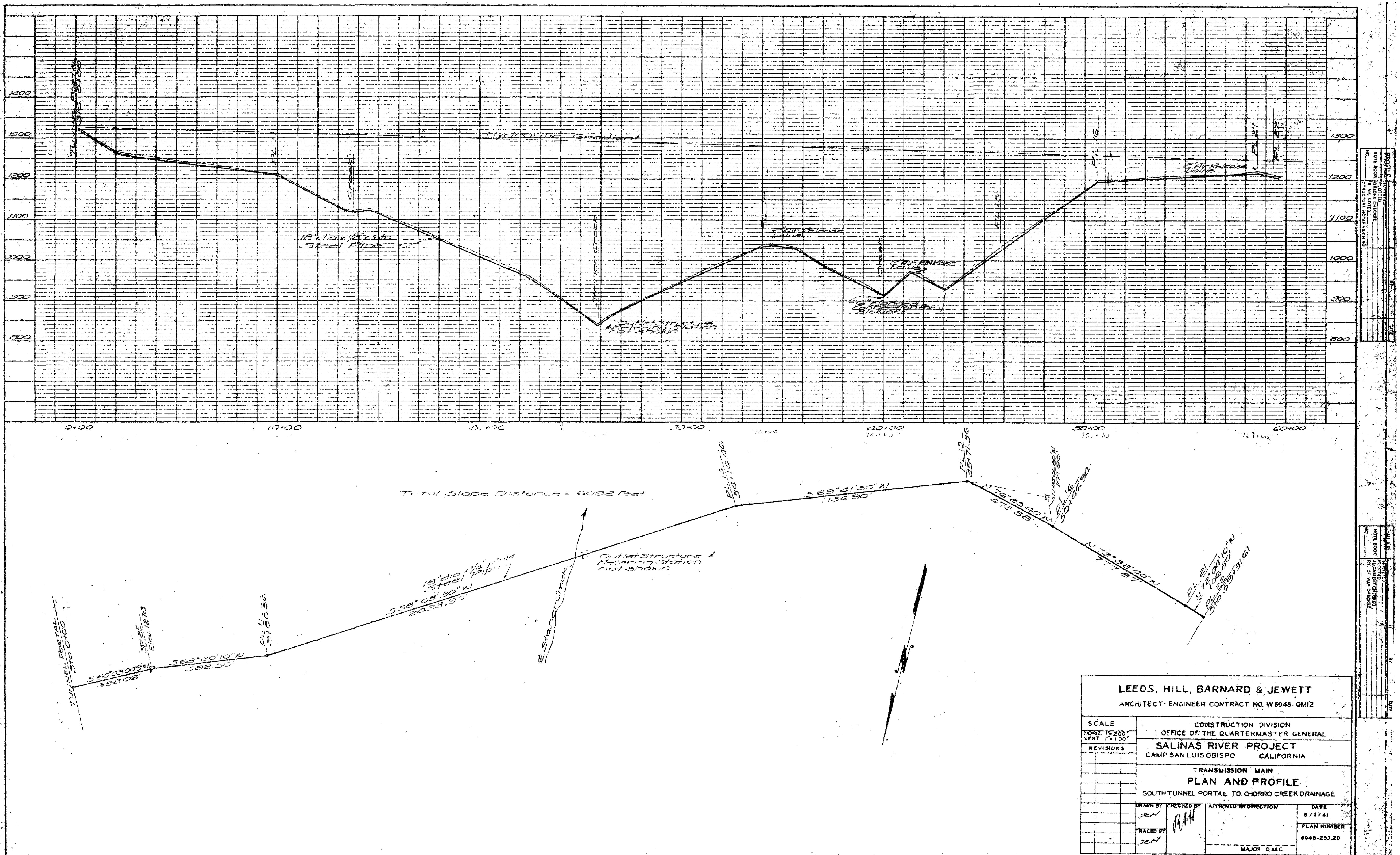
CAMP SAN LUIS OBISPO, CALIFORNIA.

SALINAS RIVER PROJECT

TRANSMISSION MAIN
PLAN AND PROFILE
STATION 484+00 TO STATION 514+00

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
GONN	JCH		9/12/41
TRACED BY	GONN	MAJOR, Q.M.C.	PLAN NUMBER 6948 - 233.19

10-2/11



LEEDS, HILL, BARNARD & JEWETT

ARCHITECT- ENGINEER CONTRACT NO. W 6948-QM12

SCALE	CONSTRUCTION DIVISION OFFICE OF THE QUARTERMASTER GENERAL
HORIZ. 1"=200' VERT. 1"=100'	SALINAS RIVER PROJECT CAMP SAN LUIS OBISPO CALIFORNIA
REVISIONS	TRANSMISSION MAIN PLAN AND PROFILE SOUTH TUNNEL PORTAL TO CHORRO CREEK DRAINAGE

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
JCH	RAH		8/1/41
TRACED BY			PLAN NUMBER
JCH		MAJOR Q.M.C.	6948-253.20

10-2/112

200' HEAD CONCRETE CYLINDER PIPE

GROUND SURFACE

24" CONCRETE PIPE

MATCH LINE

514+00 PIPE LINE = 28+01.98 TRANSIT LINE

8" AIR RELEASE VALVE & 18" MANHOLE

6" BLOWOFF VALVE

NO BEVEL PIPE

BEVEL PIPE

MH MANHOLE

MATCH LINE

543+50 PIPE LINE = 57+48.43 TRANSIT LINE

S 0° 12' 23" W

Δ = 24° 36'
R = 360'
T = 78.49'
L = 154.56

S 24° 23' 37" E

S 34° 26' 52" E

S 35° 57' 52" E

Δ = 10° 03' 15"
R = 360'
T = 31.67
L = 63.15

Δ = 38° 20' 37"
T = 142.5
L = 499.45
L = 953.68

S 02° 22' 45" W

Δ = 16° 51' 45"
R = 360'
T = 53.35
L = 105.97

523.61'

412.79'

516+44.9 P.C.

517+98.00 E.C.

520+28.24 B.C.

522+28.17 E.C.

525+59.65 P.I. TRANSIT LINE

528+24.24 P.C.

530+37.94 E.C. = 52+37.64 TRANSIT LINE

542+19.39 P.C.

543+25.36 PIPE LINE = MATCH LINE

543+50 PIPE LINE = 57+48.43 TRANSIT LINE

STATE HIGHWAY R.O.W.

℄ STATE HIGHWAY

PIPE LINE

PIPE CONSTRUCTION FOR HIGHWAY R/W
SCALE 1" = 2'-0"

Road Mix
Compacted Soil
Loam Concrete 1:4:7

NOTE
BEARINGS REFER TO U.S.C.&G.S. PLANE RECTANGULAR COORDINATE SYSTEM, ZONE 5 IN CALIFORNIA

NOTES
CURVE DATA FOR PLAN AND PROFILE BASED ON USE OF 30' PIPE SECTION WITH ALLOWABLE DEFLECTION OF ± 1° FOR STRAIGHT PIPE AND 0° & 1° FOR BEVEL PIPE.
ADJUSTMENT OF PIPE TO FIT FIELD CONDITIONS UNDER SUPERVISION OF FIELD ENGINEER.

LEEDS, HILL, BARNARD & JEWETT
ARCHITECT-ENGINEER CONTRACT NO. W 6948 qm 12

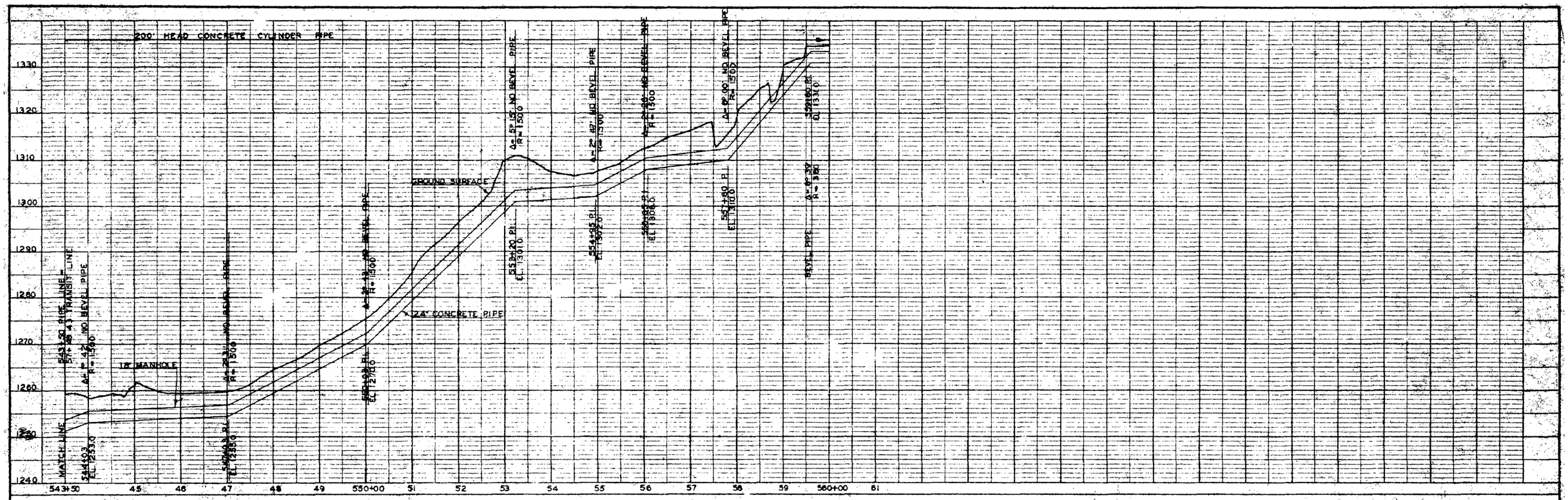
SCALE
HORIZ. 1" = 100'
VERT. 1" = 10'

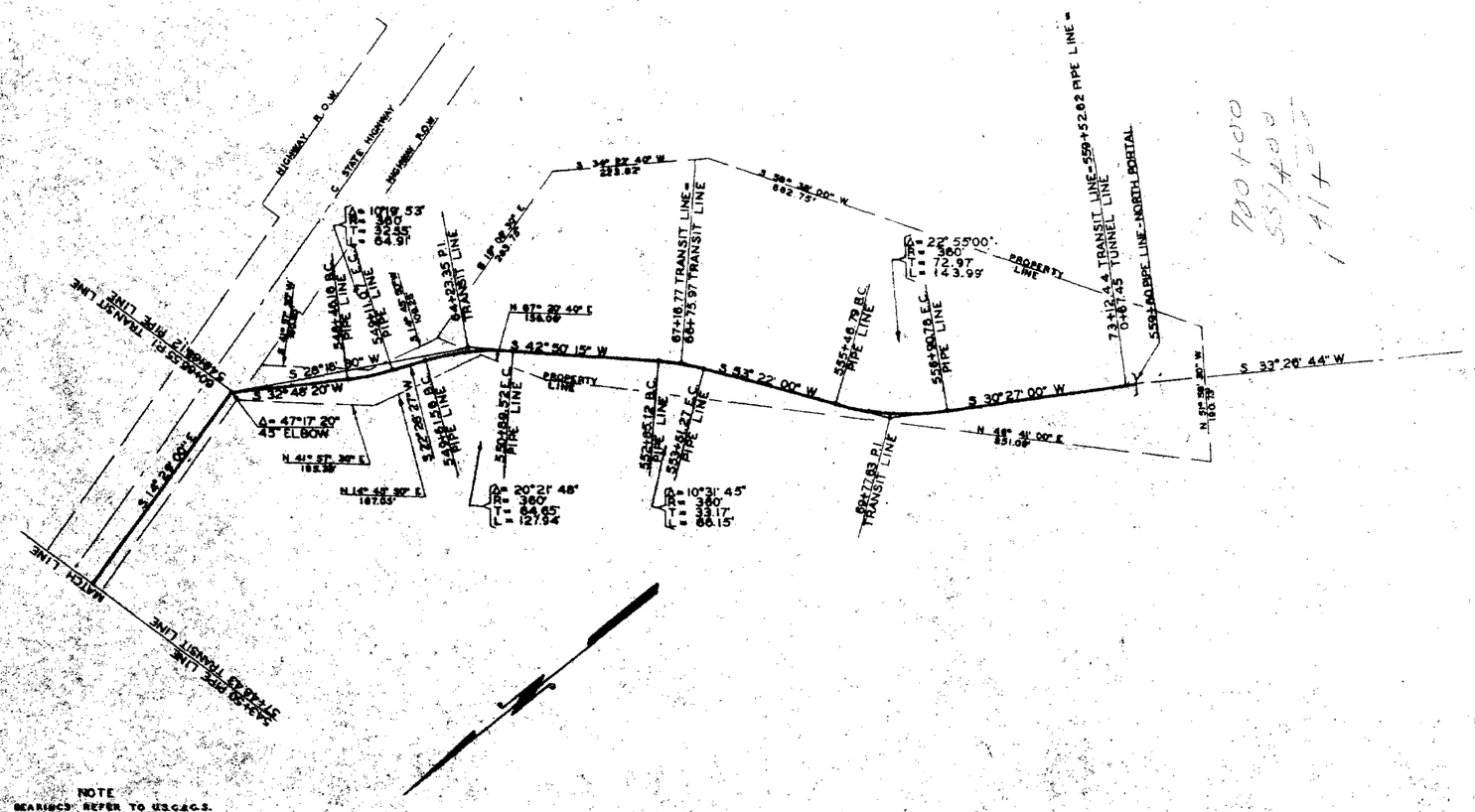
REVISIONS

CONSTRUCTION DIVISION
OFFICE OF THE QUARTERMASTER GENERAL
CAMP SAN LUIS OBISPO CALIFORNIA
SALINAS RIVER PROJECT
TRANSMISSION MAIN
PLAN AND PROFILE
STATION 514+00 TO STATION 543+50

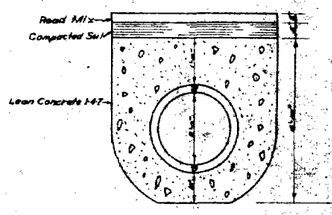
DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
F.C.H.			9/12/41
TRACED BY			PLAN NUMBER
R.M.W. A.A.B.		MAJOR Q.M.C.	6948-233.21

10-2/113





NOTE
BEARINGS REFER TO U.S.C.&G.S. PLANE RECTANGULAR COORDINATE SYSTEM, ZONE 5 IN CALIFORNIA



PIPE CONSTRUCTION FOR HIGHWAY R/W
SCALE 1" = 2'-0"

NOTES
CURVE DATA FOR PLAN AND PROFILE BASED ON USE OF 30' PIPE SECTION WITH ALLOWABLE DEFLECTION OF ± 1° FOR STRAIGHT PIPE AND 5° ± 1° FOR BEVEL PIPE.
ADJUSTMENT OF PIPE TO FIT FIELD CONDITIONS UNDER SUPERVISION OF FIELD ENGINEER.

LEEDS, HILL, BARNARD & JEWETT
ARCHITECT-ENGINEER CONTRACT NO. W 6948 qm 12

SCALE	CONSTRUCTION DIVISION OFFICE OF THE QUARTERMASTER GENERAL
HORIZ. 1"=100' VERT. 1"=10'	CAMP SAN LUIS OBISPO CALIFORNIA
REVISIONS	SALINAS RIVER PROJECT
	TRANSMISSION MAIN
	PLAN AND PROFILE
	STATION 543+50 TO NORTH PORTAL

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
F.C.H.	[illegible]	[illegible] MAJOR G.S.C.	9/2/41
TRACED BY R.M.W.	[illegible]		PLAN NUMBER 6948-233.22

10-2.7/14

SOUTH PORTAL CUESTA TUNNEL
EL. 1330.0
HYDRAULIC GRADIENT
GROUND SURFACE
8'-0" DIA. - 1/4" PLATE STEEL PIPE
ANCHOR BLOCK
ANCHOR BLOCKS SEE DWG. NO. 6948-238-I
700+15.02 EL. 1327.0
700+90 EL. 1324.0
701+35 EL. 1293.0
705+00 EL. 1257.0
711+00 EL. 1199.0
713+00 EL. 1136.0
714+00 EL. 1116.0
715+50 EL. 1107.0
720+00 EL. 1006.0
724+00 EL. 918.0
725+05 EL. 845.64
726+10 EL. 845.64
727+25 EL. 851.0
728+00 EL. 896.0
729+00 PIPE LINE 29+00.67 TRANSIT LINE
MATCH LINE
Δ = 30° 29'
Δ = 26° 50'
Δ = 0° 5'
Δ = 1° 57.7'
Δ = 7° 16.8'
Δ = 9° 49.3'
Δ = 13° 28.5'
Δ = 1° 26.9'
Δ = 22° 05'
Δ = 34° 36'
Δ = 7° 30'
Δ = 17° 31'
Δ = 10° 52.3'
KENNEDY 4" GATE VALVES
STEINER CREEK CROSSING SEE DWG. NO. 6948-239 FOR PLAN AND DWG. NO. 6948-239L FOR DETAILS OF END PIERS
18" EXPANSION COUPLING DAYTON OR EQUAL
VENTS
1350
1300
1250
1200
1150
1100
1050
1000
950
900
850
700+00
1
2
3
4
5
6
7
8
9
710+00
11
12
13
14
15
16
17
18
19
720+00
21
22
23
24
729

N 61° 04' 00" E 1466.1'
N 88° 35' 12" W 196.98'
1833.39' S 64° 49' 35" W
Δ = 12° 15' 53" R = 500' T = 53.72' L = 107.03'
S 58° 03' 22" W
100' EASEMENT
729+00 PIPE LINE 29+00.41 TRANSIT LINE
MATCH LINE
N 24° 00' 55" E GRID
1573.27' PROPERTY LINE N 24° 00' 00" E (RECORD)
1622.04' EASEMENT LINE S 60° 45' 04" W
S 87° 10' 00" E 329.00'
44° 69.69' TRANSIT LINE 70+47.69 PIPE LINE
Δ = 56° 15' 30"
FABRICATED FITTINGS
S 70° 19' 15" W
Δ = 22° 15' 00"
S 46° 04' 15" W
S 69° 41' 30" W
Δ = 41° 37' 15"
N 00° 22' 45" E
TUNNEL
TUNNEL PORTAL 04+90.2 L. 700+53.02 PIPE LINE
04+34.37 TRANSIT LINE 700+53.57 PIPE LINE
10+99.12 B.C. PIPE LINE
11+06.15 E.C. PIPE LINE
10+52.84 P.I. P.L. NO. 11
11+93.04 TRANSIT LINE 701+39.04 PIPE LINE

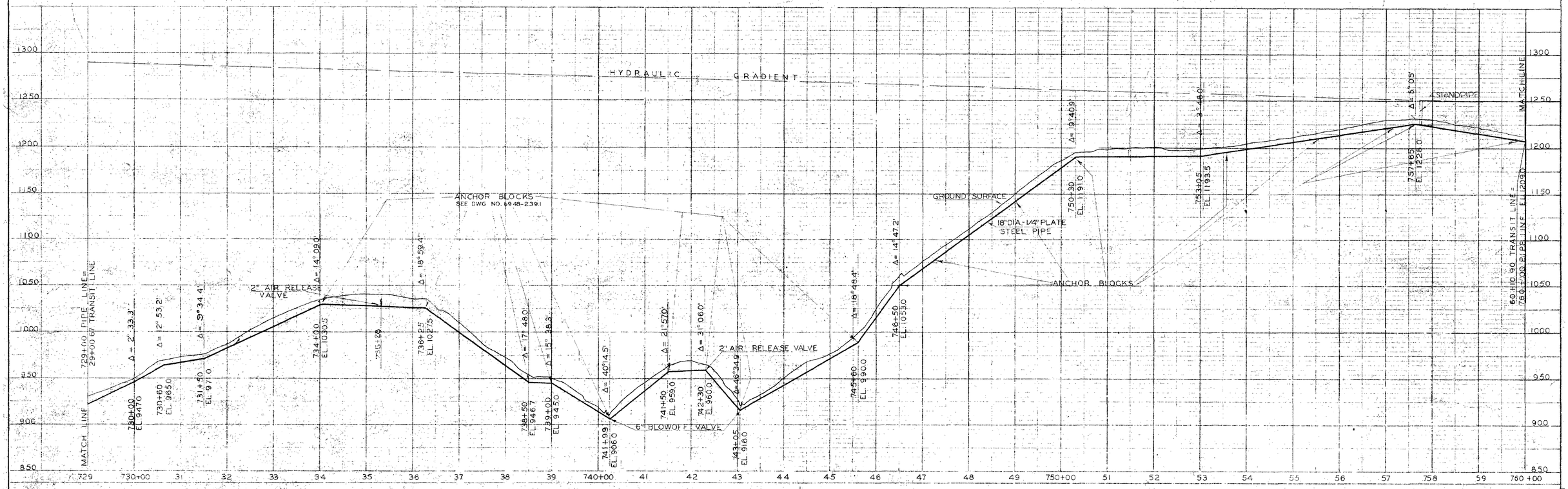
NOTE
BEARINGS REFER TO U.S.C.&G.S. PLANE RECTANGULAR COORDINATE SYSTEM, ZONE 5 IN CALIFORNIA.

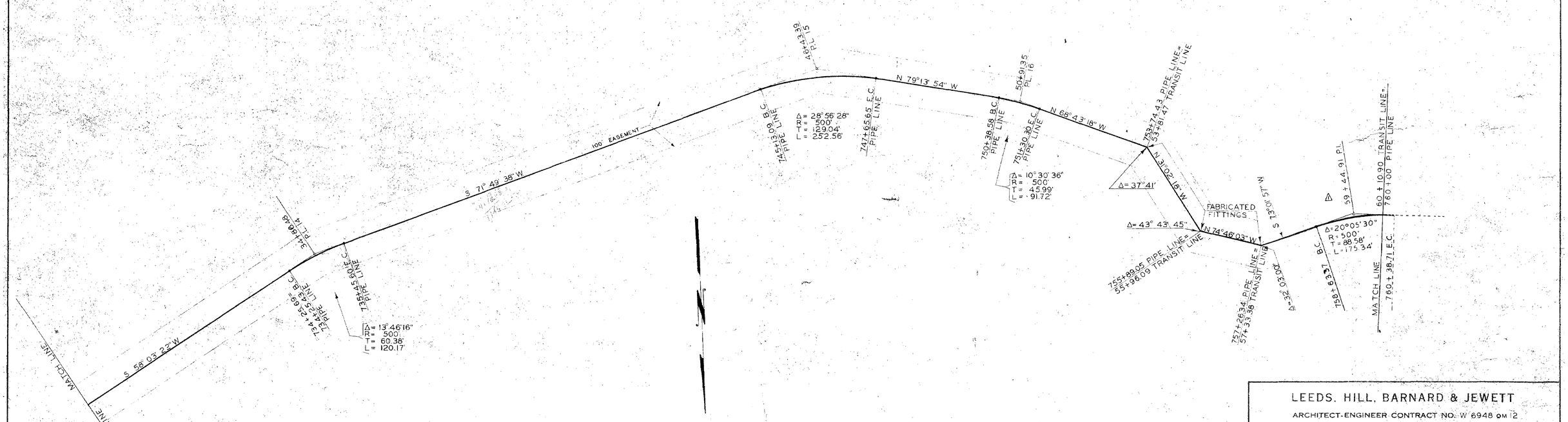
NOTES
ANGLES SHOWN ARE EXTERNAL DEFLECTIONS.
ALL BENDS GREATER THAN 4° 00' ARE SHOP FABRICATED. BENDS LESS THAN 4° ARE TAKEN IN THE STANDARD JOINT. ANGLES ARE MEASURED ON THE INVERT OF THE PIPE. PIPE LINE ALIGNMENT AND PROFILE ARE BASED ON MAXIMUM LENGTH OF 30' PER SECTION OF PIPE. BENDS TO BE FABRICATED TO THE DEFLECTION ANGLE GIVEN WITH A VARIANCE OF ± 1° (ONE DEGREE)

LEEDS, HILL, BARNARD & JEWETT
ARCHITECT-ENGINEER CONTRACT NO. W 6948 QM-12

SCALE	CONSTRUCTION DIVISION OFFICE OF THE QUARTERMASTER GENERAL
HORIZ. 1" = 100' VERT. 1" = 50'	CAMP SAN LUIS OBISPO, CALIFORNIA
REVISIONS	SALINAS RIVER PROJECT
△ 9/3/41	TRANSMISSION MAIN PLAN AND PROFILE SOUTH PORTAL TUNNEL TO STATION 729 + 00

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
F.C.H.	[illegible]		9/2/41
TRACED BY			PLAN NUMBER
R.M.W.	[illegible]	MAJOR Q.M.C.	6948-233.28 C 25C





NOTE
BEARINGS REFER TO U.S.C.&G.S. PLANE RECTANGULAR COORDINATE SYSTEM, ZONE 5 IN CALIFORNIA.

NOTES
ANGLES SHOWN ARE EXTERNAL DEFLECTIONS.
ALL BENDS GREATER THAN 4°00' ARE SHOP FABRICATED.
BENDS LESS THAN 4° ARE TAKEN IN THE STANDARD JOINT.
ANGLES ARE MEASURED ON THE INVERT OF THE PIPE.
PIPE LINE ALIGNMENT AND PROFILE ARE BASED ON MAXIMUM LENGTH OF 30' SECTION OF PIPE.
BENDS TO BE FABRICATED TO THE DEFLECTION ANGLE GIVEN WITH A VARIANCE OF ± 1° (ONE DEGREE)

LEEDS, HILL, BARNARD & JEWETT
ARCHITECT-ENGINEER CONTRACT NO. W 6948 QM 12

SCALE	CONSTRUCTION DIVISION
HORIZ. 1" = 100' VERT. 1" = 50'	OFFICE OF THE QUARTERMASTER GENERAL
REVISIONS	CAMP SAN LUIS OBISPO, CALIFORNIA
1 9-4-41 FCH	SALINAS RIVER PROJECT
2 9-4-41 FCH	TRANSMISSION MAIN
	PLAN AND PROFILE
	STATION 729+00 TO STATION 760+00

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
F.C.H.	FCH		3/2/41
TRACED BY			PLAN NUMBER
R.M.W.	FCH	MAJOR Q.M.C.	6948-233.24 G 235

NOTE

BEARINGS REFER TO U.S.C.&G.S. PLANE RECTANGULAR COORDINATE SYSTEM, ZONE 5 IN CALIFORNIA.

NOTES

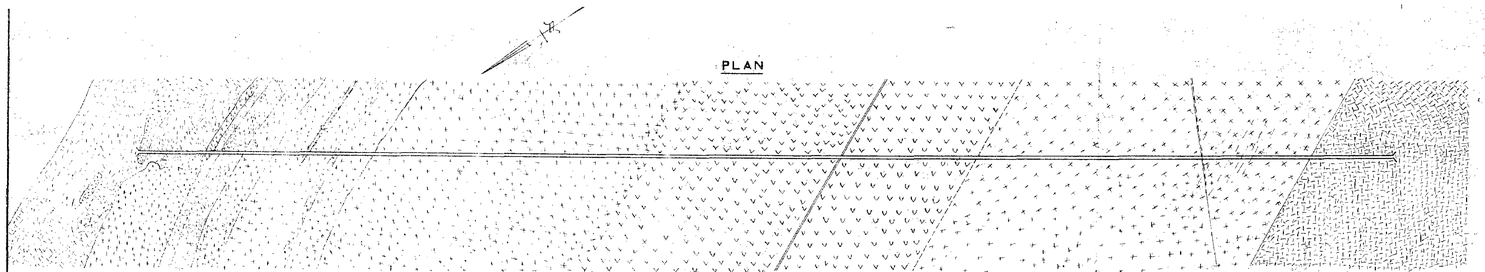
ANGLES SHOWN ARE EXTERNAL DEFLECTIONS.
ALL BENDS GREATER THAN 4°00' ARE SHOP FABRICATED
BENDS LESS THAN 4° ARE TAKEN IN THE STANDARD JOINT
ANGLES ARE MEASURED ON THE INVERT OF THE PIPE.
PIPE LINE ALIGNMENT AND PROFILE ARE BASED ON MAXIMUM LENGTH OF 30' SECTION OF PIPE.
BENDS TO BE FABRICATED TO THE DEFLECTION ANGLE GIVEN WITH A VARIANCE OF ± 1° ONE DEGREE

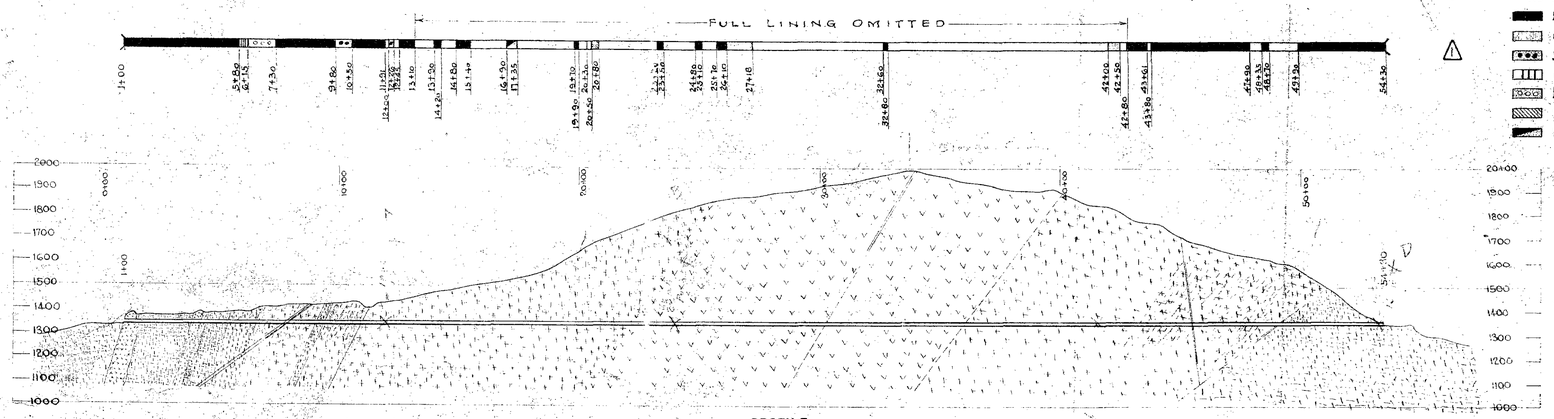
LEEDS, HILL, BARNARD & JEWETT

ARCHITECT-ENGINEER CONTRACT NO. W 6948 QM 12

SCALE	
HORIZ 1" = 100' VERT 1" = 50'	CONSTRUCTION DIVISION OFFICE OF THE QUARTERMASTER GENERAL
REVISIONS	CAMP SAN LUIS OBISPO, CALIFORNIA SALINAS RIVER PROJECT
	TRANSMISSION MAIN PLAN AND PROFILE STATION 760+00 TO STATION 792+13.63

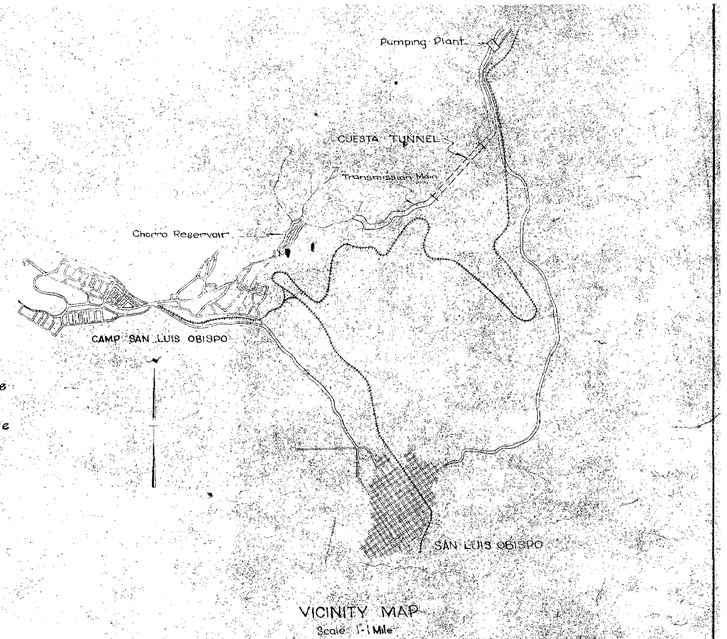
DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
A.A.B.	[signature]		9-3-41
TRACED BY			PLAN NUMBER
A.A.B.	[signature]	[signature] Q.M.C.	6948-233.25





LEGEND
SHOWING LINING
AS RECOMMENDED

- Full Lining
- Gunite
- Spot Gunite
- Cross Walls
- Possible Spot Gunite
- Scaling for Gunite
- Full Lining or Gunite

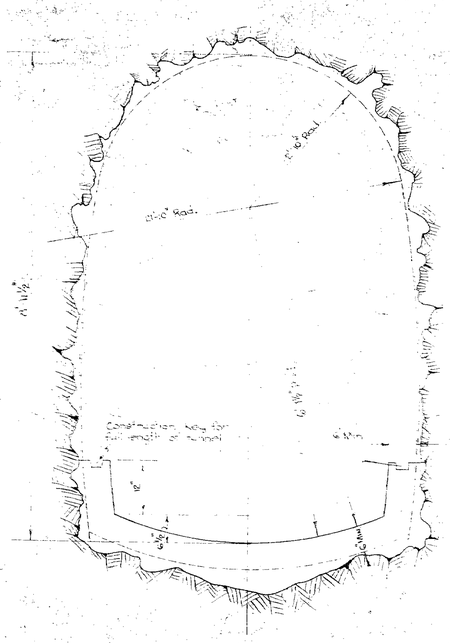


VICINITY MAP
Scale 1" = 1 Mile

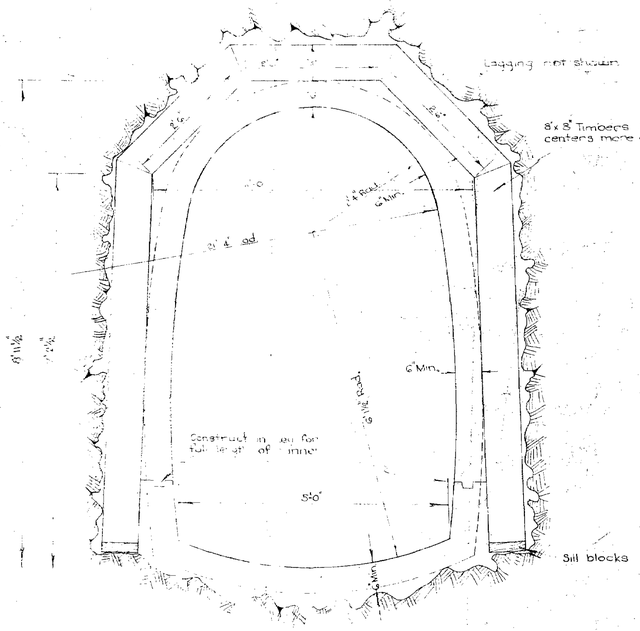
GEOLOGY

LEGEND

	SERPENTINE	Green and black colored rock altered, soft, flaky, faulted and mottled where weathered Block type more common.
	DIABASE	Feldspar and hornblende with hornblende feldspar the predominating mineral.
	DIABASE	Feldspar and hornblende with hornblende the predominating mineral.
	ALTERED DIABASE	Has character similar to serpentine usually seamed and fractured.
	DIKE	
	WATER SEAMS	



CUESTA TUNNEL
ROCK SECTION
SCALE 3/8"-1'-0"

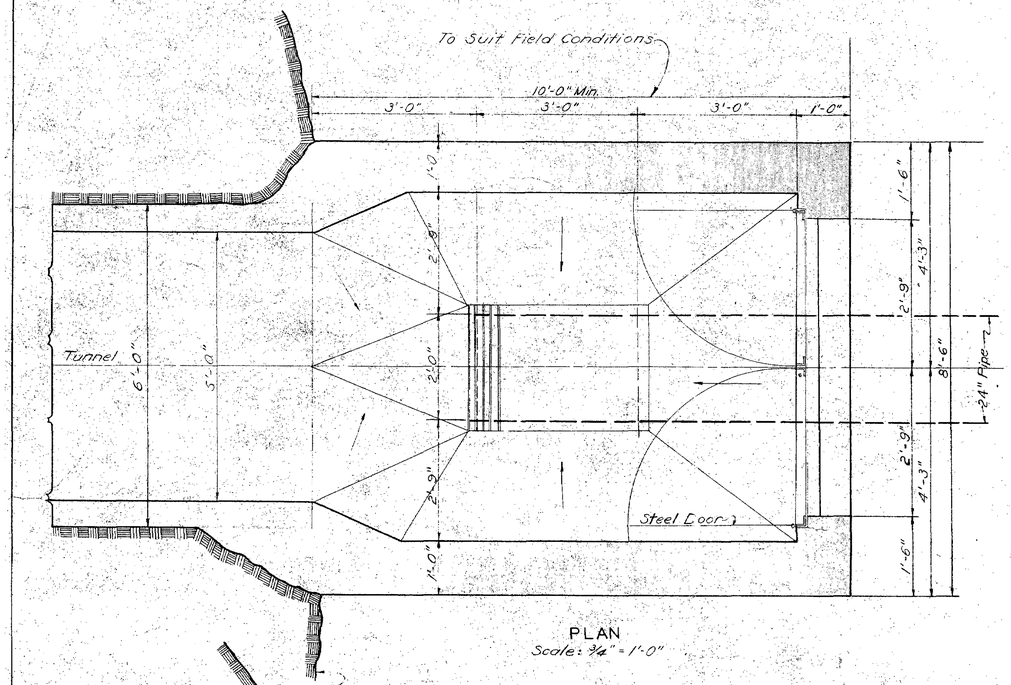


CUESTA TUNNEL
TIMBERED SECTION
SCALE 3/4"-1'-0"

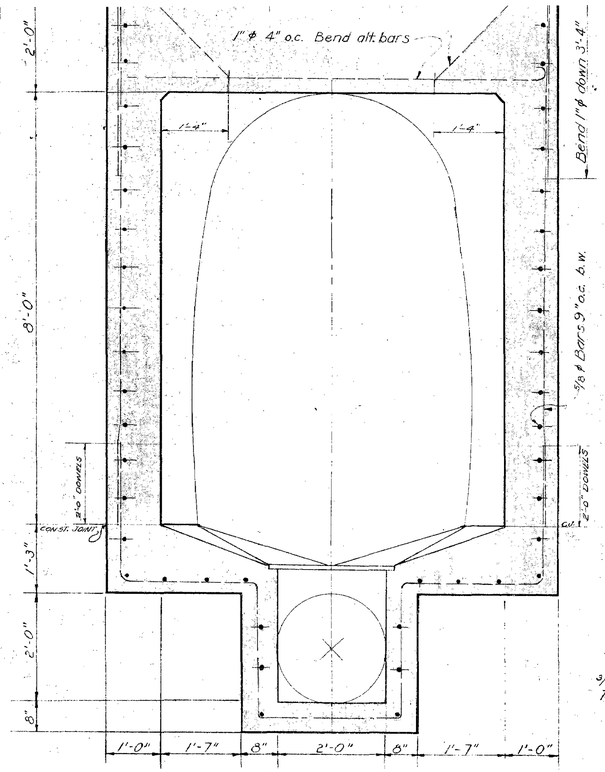
LEEDS, HILL, BARNARD & JEWETT
ARCHITECT-ENGINEER CONTRACT NO. W 6948 qm 12

SCALE AS SHOWN	CONSTRUCTION DIVISION OFFICE OF THE QUARTERMASTER GENERAL
REVISIONS △ 3-28-42	CAMP SAN LUIS OBISPO SALINAS RIVER PROJECT
	CUESTA TUNNEL
DRAWN BY NICHOLS / TRACED BY / CHECKED BY	APPROVED BY DIRECTION / MAJ. [illegible]
	DATE DEC. 13 1941
	PLAN NUMBER 6948-234

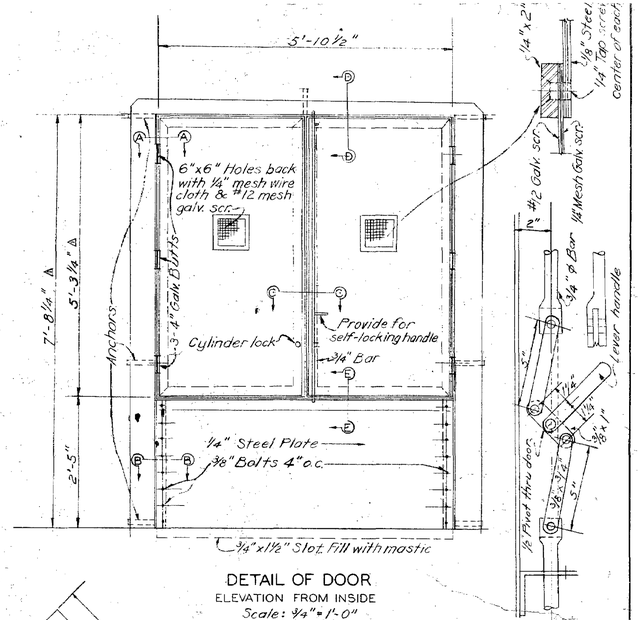
10-27-18



PLAN
Scale: ¾" = 1'-0"

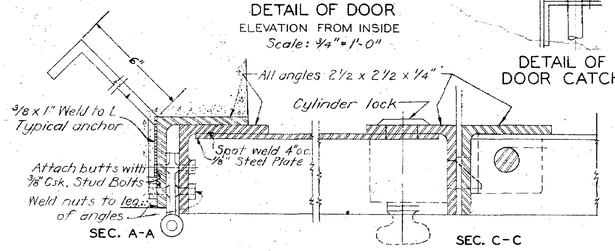


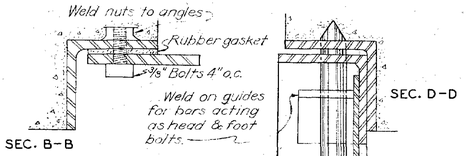
TRANSVERSE SECTION
Scale: ¾" = 1'-0"

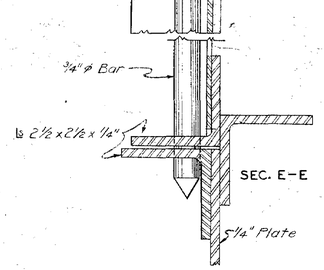


DETAIL OF DOOR
ELEVATION FROM INSIDE
Scale: ¾"=1'-0"

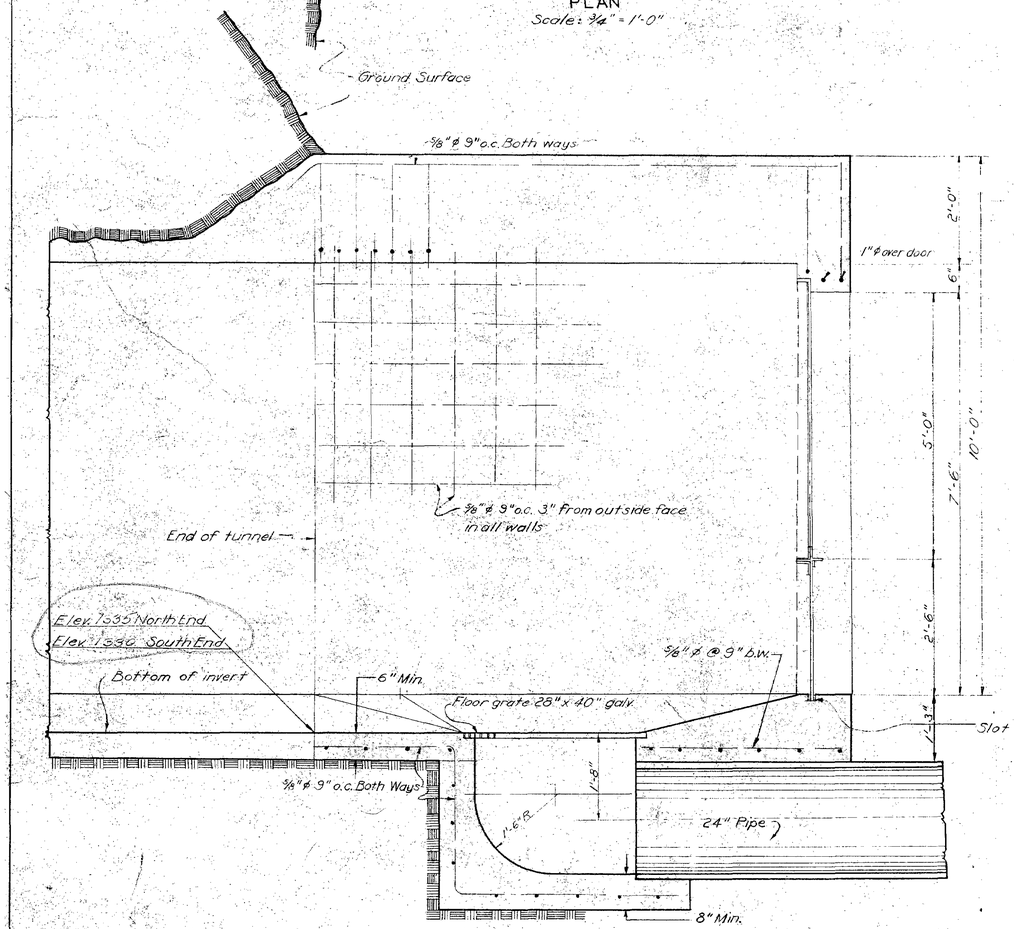
DETAIL OF DOOR CATCH



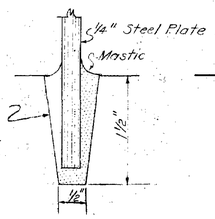


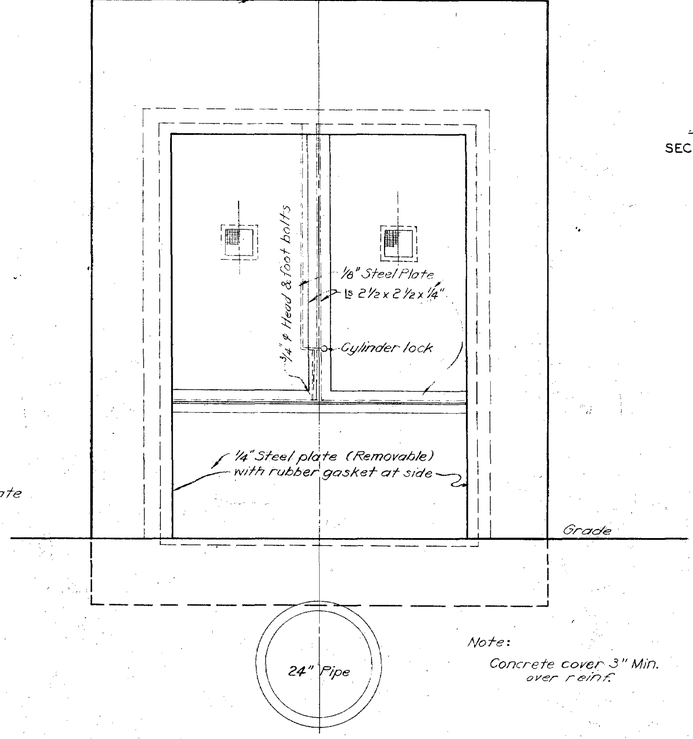


DETAIL OF STEEL DOOR AND FRAMES
Scale: 1½" = 1'-0"



LONGITUDINAL SECTION
Scale: ¾" = 1'-0"





FRONT ELEVATION
Scale: ¾" = 1'-0"

Note:
Concrete cover 3" Min. over reinf.

LEEDS, HILL, BARNARD & JEWETT
ARCHITECT-ENGINEER CONTRACT NO. W 6948 QM 12

SCALE	CONSTRUCTION DIVISION
AS INDICATED	OFFICE OF THE QUARTERMASTER GENERAL
REVISIONS	CAMP SAN LUIS OBISPO, CALIFORNIA
△ 10/10/41 JDW	SALINAS RIVER PROJECT
	CUESTA TUNNEL PORTAL STRUCTURES

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
HOWELL	WBW Jr.	D. P. Lam MAJOR Q.M.C.	AUG. 30, 1941
TRACED BY YUNA	RAH		PLAN NUMBER 6948-234.1

10-2/119

TOPOGRAPHIC MAP

UPPER SALINAS RIVER RESERVOIR

SAN LUIS OBISPO COUNTY

TO ACCOMPANY APPLICATION 10211

OF

UNITED STATES OF AMERICA

SCALE 1" = 1000'

U.S.C. & G.S. PLANE RECTANGULAR COORDINATE SYSTEM, ZONE 5 IN CALIFORNIA

T.30S. R.14E. MD.B&M.

E.1,290,000 E.1,285,000 E.1,280,000 E.1,275,000 E.1,270,000 E.1,265,000 E.1,260,000

N.680,000 N.675,000 N.670,000 N.665,000

SR 13 SR 12 SR 14

F 492 F 491 F 493 F 482 F 483 F 481 F 485 F 484 F 486 F 480

STORAGE CAPACITY IN ACRE FEET

ELEVATION IN FEET

CAPACITY

AREA

SURFACE AREA IN ACRES

FULL RESERVOIR LEVEL ELEVATION 1315

MAXIMUM FLOOD LEVEL ELEVATION 1325

LEEDS, HILL, BARNARD & JEWETT

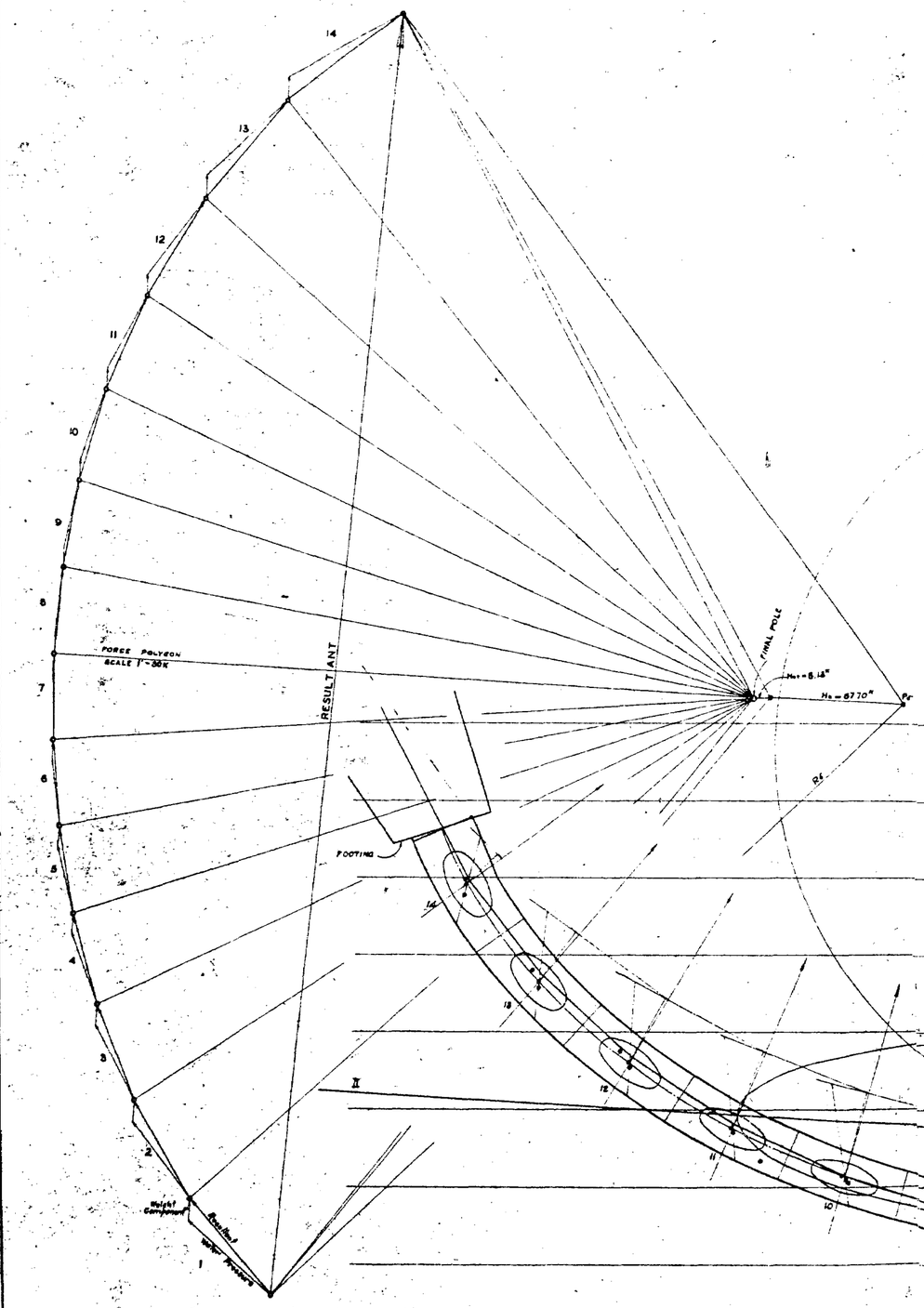
ARCHITECT-ENGINEER CONTRACT NO. W 6948 qm-12

SCALE	CONSTRUCTION DIVISION OFFICE OF THE QUARTERMASTER GENERAL
1" = 1000'	CAMP SAN LUIS OBISPO, CALIFORNIA
REVISIONS	SALINAS RIVER PROJECT
	TOPOGRAPHIC MAP SALINAS RESERVOIR

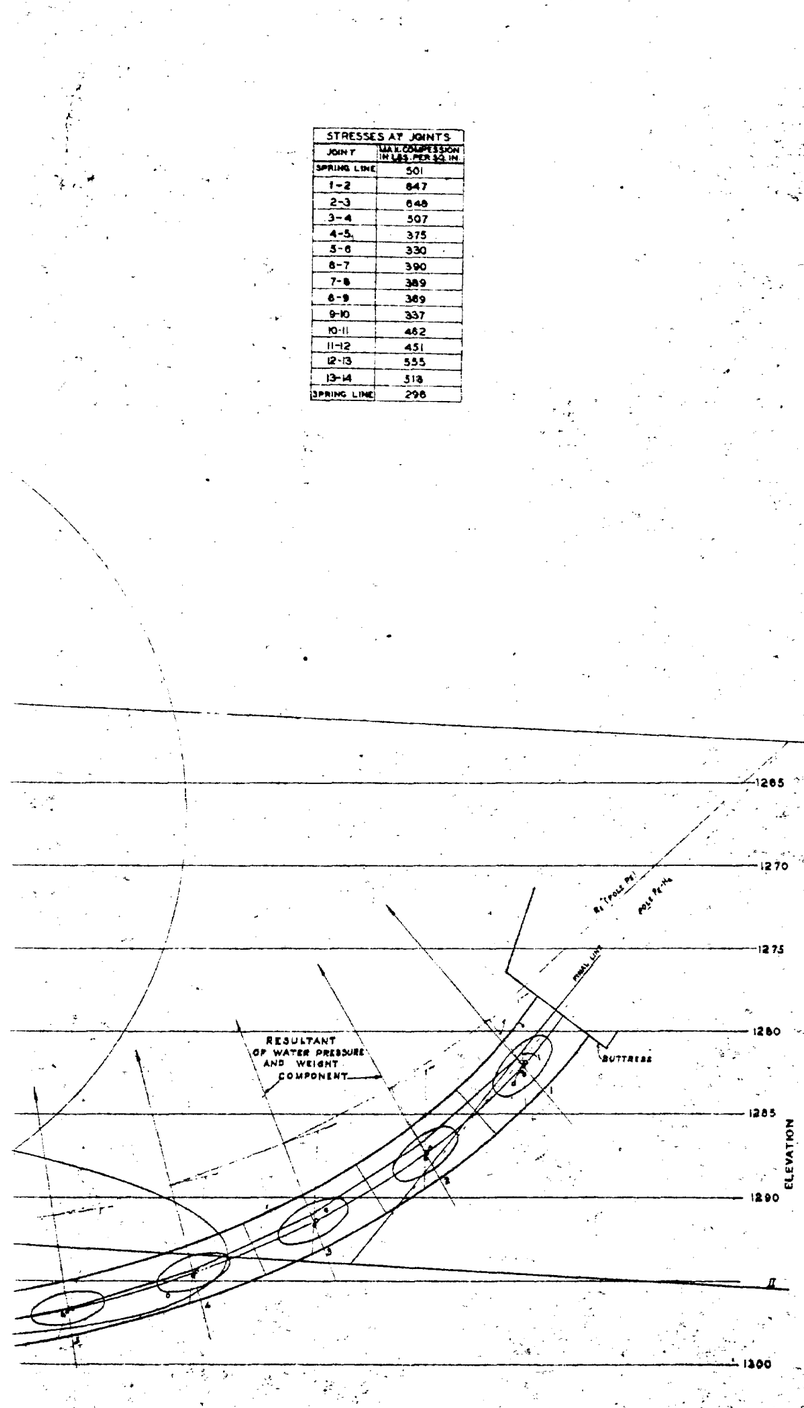
DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
FAIRCHILD AERIAL SURVEYS INC.		G-25C MAJOR QMC	7/25/45
			PLAN NUMBER 6948-237

10-2-112

STRESSES AT JOINTS	
JOINT	MAX. COMPRESSION IN LBS. PER SQ. IN.
SPRING LINE	501
1-2	647
2-3	648
3-4	507
4-5	375
5-6	330
6-7	390
7-8	389
8-9	389
9-10	337
10-11	462
11-12	451
12-13	555
13-14	518
SPRING LINE	298



PLAN IN NORMAL PLANE
SCALE 1"= 10'-0"



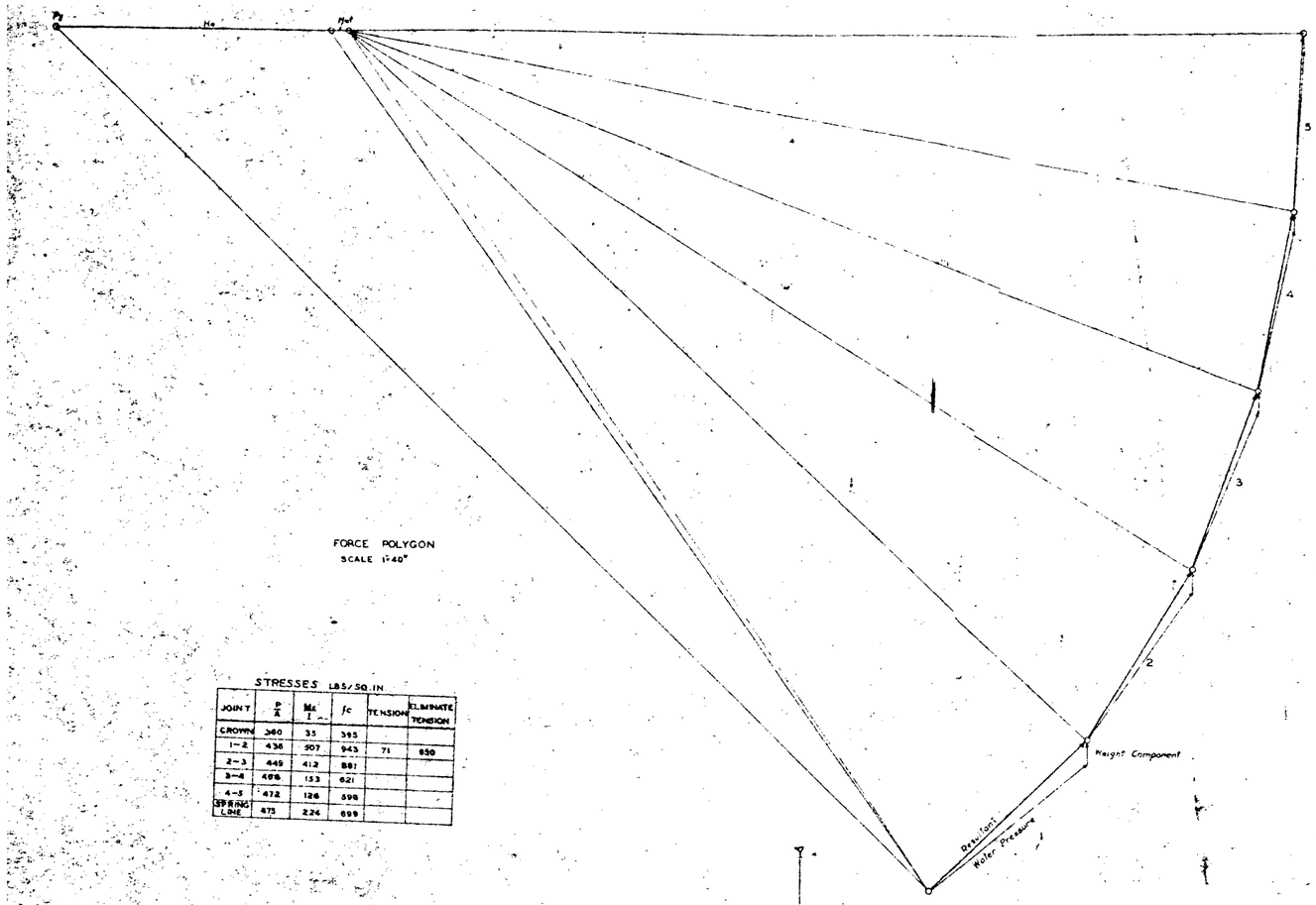
Note: Left buttress shortened and larger fillet added to intrados after analysis which improves stresses due to increased asymmetry.

LEEDS, HILL, BARNARD & JEWETT
ARCHITECT-ENGINEER CONTRACT NO. W 6948 eng-12

SCALE	CONSTRUCTION DIVISION OFFICE OF THE QUARTERMASTER GENERAL
AS SHOWN	CAMP SAN LUIS OBISPO, CALIFORNIA
REVISIONS	SALINAS RIVER PROJECT
	SALINAS DAM
	ANALYSIS OF NORMAL ARCH A

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
RWS	RWS	O.P. Clarke MAJOR G.S.C.	SEPT. 26 1941
TRACED BY			PLAN NUMBER
A.T.L.			6948-259

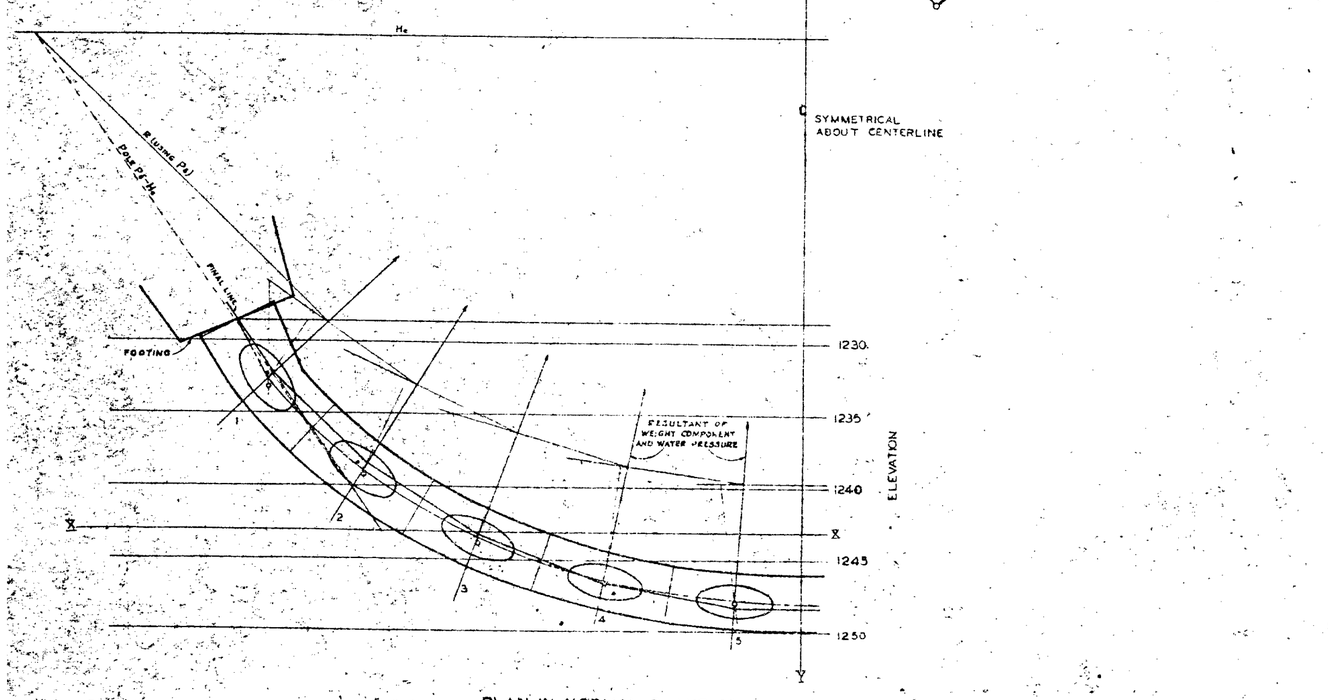
10-27138



FORCE POLYGON
SCALE 1"=40'

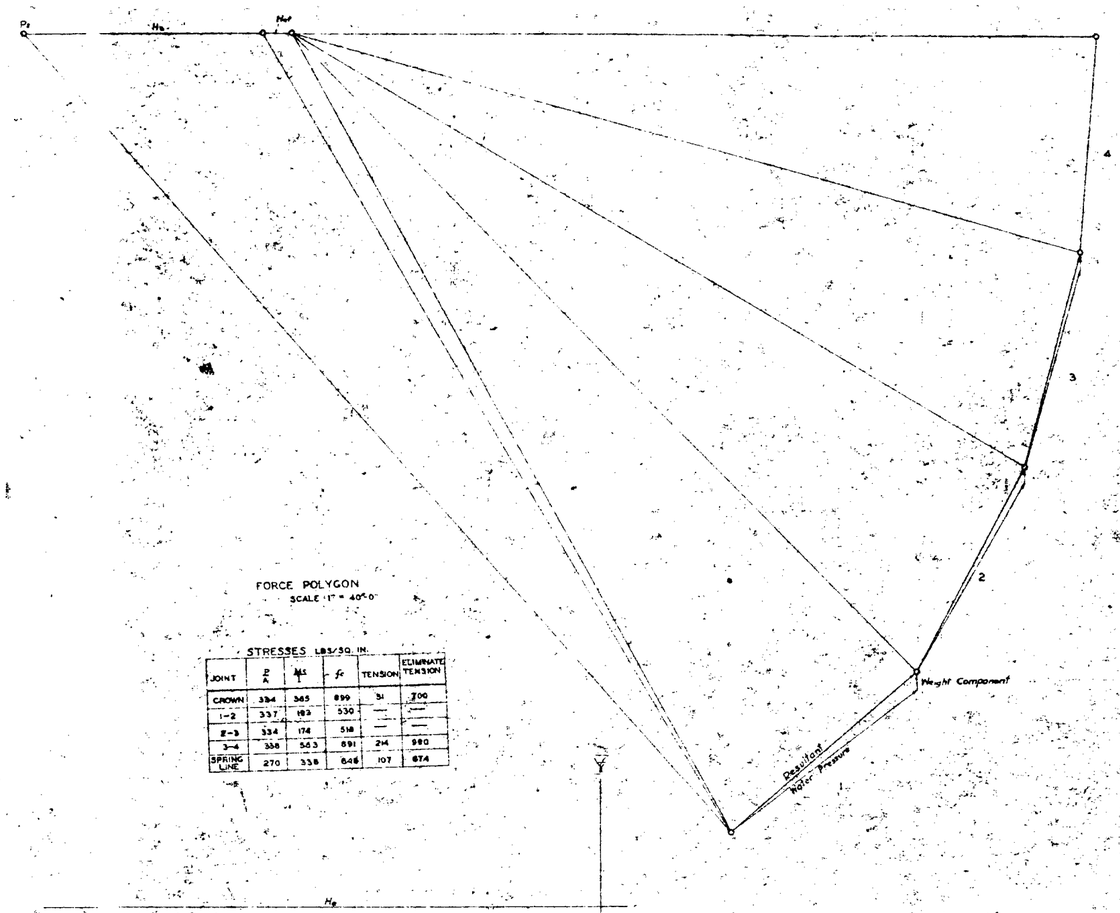
STRESSES LBS/SQ. IN.

JOINT	P/A	Mc/I	fc	TENSION	ELIMINATE TENSION
CROWN	380	35	395		
1-2	436	507	943	71	830
2-3	449	412	861		
3-4	486	153	621		
4-5	472	126	598		
SPRING LINE	473	226	699		



PLAN IN NORMAL PLANE "B"
SCALE 1"=10'-0"

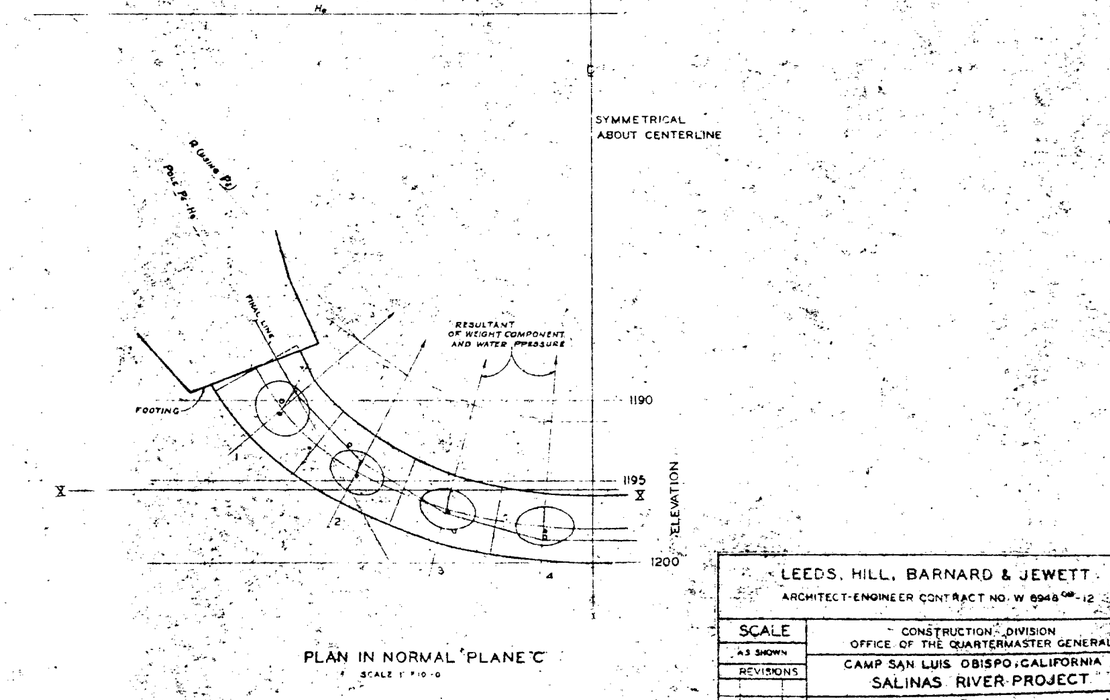
NOTE: FILLET HAS BEEN INCREASED SINCE ANALYSIS, REDUCING STRESSES



FORCE POLYGON
SCALE 1" = 40'-0"

STRESSES LBS/SQ. IN.

JOINT	P/A	Mc/I	fc	TENSION	ELIMINATE TENSION
CROWN	384	385	899	51	700
1-2	337	193	530	—	—
2-3	334	174	518	—	—
3-4	338	553	891	214	980
SPRING LINE	270	338	648	107	874



PLAN IN NORMAL PLANE "C"
SCALE 1"=10'-0"

NOTE: FILLET HAS BEEN INCREASED SINCE ANALYSIS, REDUCING STRESSES.

LEEDS, HILL, BARNARD & JEWETT
ARCHITECT-ENGINEER CONTRACT NO. W 6948 CIVIL-12

SCALE	CONSTRUCTION DIVISION OFFICE OF THE QUARTERMASTER GENERAL
AS SHOWN	CAMP SAN LUIS OBISPO, CALIFORNIA
REVISIONS	SALINAS RIVER PROJECT
	SALINAS DAM
	ANALYSIS OF NORMAL ARCHES B & C

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
R.W.S.			SEPT. 3, 1941
TRACED BY			PLAN NUMBER
A.T.L.			6948-259.1

10-2/139

Reservoir Stage Recorder House

EL. 1325 CREST

Heater, pipe & fittings are in back ground but on section 5-5

EL. 1300

EL. 1275

EL. 1250

ASSUMED ROCK LINE

ARCH SECTION 6-6 AND FOOTING BLOCK
SCALE 1" = 10'

Bottom of cut off trench as excavated

Floodlight Standard

Reservoir Stage Recorder House

ELEV. 1325

ELEV. 1315

Reservoir Stage Recorder Intake

Floodlight Standard

ELEV. 1325

OVERFLOW CREST ELEV. 1320

ELEV. 1305

Approach Line

CREST CENTER 325

161.98

54°10' 60"

40°

RADIUS

EL. 1315

EL. 1310

EL. 1305

EL. 1300

EL. 1295

EL. 1290

EL. 1285

EL. 1280

EL. 1275

EL. 1270

EL. 1265

EL. 1260

EL. 1255

EL. 1250

EL. 1245

EL. 1240

EL. 1235

EL. 1230

EL. 1225

EL. 1220

EL. 1215

EL. 1210

EL. 1205

EL. 1200

EL. 1195

EL. 1190

EL. 1185

ELEV. 1320

ELEV. 1315

ELEV. 1305

ELEV. 1300

ELEV. 1295

ELEV. 1290

ELEV. 1285

ELEV. 1280

ELEV. 1275

ELEV. 1270

ELEV. 1265

ELEV. 1260

ELEV. 1255

ELEV. 1250

ELEV. 1245

ELEV. 1240

ELEV. 1235

ELEV. 1230

ELEV. 1225

ELEV. 1220

ELEV. 1215

ELEV. 1210

ELEV. 1205

ELEV. 1200

ELEV. 1195

ELEV. 1190

ELEV. 1185

OVERFLOW CREST ELEV. 1320 FEET ABOVE SEA LEVEL DATUM

OVERFLOW CREST ELEV. 1320 ALONG SECTION LINE

8.00' ALONG SECTION LINE

1165

1225

1200

1175

1150

1125

1100

1075

1050

1025

1000

975

950

925

900

875

850

825

800

775

750

725

700

675

650

625

600

575

550

525

500

475

450

425

400

375

350

325

300

275

250

225

200

175

150

125

100

75

50

25

0

8700.53'

1156.05'

ELEV. 1320

ELEV. 1325

21.96'

Floodlight Standard

℄ OF SPILLWAY

℄ OF GATE HINGE

TOP OF GATE

A

A-1

B

B-1

PLAN OF DAM
SCALE 1" = 20'

AXIS OF DAM

CREST OF DAM EL. 1323

CENTER AND PT { EL. 1309.46 / EL. 1306.42

SEE NOTE BELOW

P.T. EL. 1295.96

P.T. EL. 1315

P.T. EL. 1295.39

EL. 1315 — h = 108.48'
EL. 1310 — h = 99.52'
EL. 1305 — h = 114.99'
EL. 1300 — h = 129.47'
EL. 1295 — h = 144.18'
EL. 1290 — h = 161.53'
EL. 1285 — h = 177.24'
EL. 1280 — h = 192.69'
EL. 1275 — h = 208.18'
EL. 1270 — h = 223.69'
EL. 1265 — h = 239.18'
EL. 1260 — h = 254.71'
EL. 1255 — h = 270.24'
EL. 1250 — h = 285.99'
EL. 1245 — h = 301.35'
EL. 1240 — h = 316.85'
EL. 1235 — h = 332.36'
EL. 1230 — h = 347.69'
EL. 1225 — h = 363.42'
EL. 1220 — h = 378.95'
EL. 1215 — h = 394.42'
EL. 1210 — h = 409.18'
EL. 1205 — h = 425.85'
EL. 1200 — h = 440.19'
EL. 1195 — h = 456.00'
EL. 1190 — h = 470.18'
EL. 1185 — h = 485.36'

9.44' 7.89'
9.32' 6.02'
9.41' 12.44'
9.55' 13.80'
9.62' 9.43'
9.69' 12.04'
9.74' 14.45'
9.83' 16.66'
9.93' 19.67'
9.97' 21.66'
10.54' 24.59'
10.11' 26.50'
10.16' 28.91'
10.26' 31.51'
10.39' 33.65'
10.55' 36.60'
10.66' 37.98'
10.99' 39.99'
11.20' 41.87'
12.00' 42.98'
43.34'
6.805' 6.805'

FOR KEY DETAIL
SEE DRWG NO. 260.5
FOR DETAIL OF CATWALK
SEE SHEET 43.260.3

MAXIMUM ARCH SECTION AND FOOTING BLOCK
SCALE 1" = 10'

Bottom of cut off trench as excavated

1350

1325

1300

1275

1250

1225

1200

1175

1150

Floodlight Standard

Reservoir Stage Recorder House

OVERFLOW CREST ELEV. 1320

ELEV. 1325

TOP OF GATE ELEV. 1319.7

SPILLWAY CREST ELEV. 1301.7

NORMAL ARCH "A"
SEE DRWG NO 259

NORMAL ARCH "B"
SEE DRWG NO. 259.1

NORMAL ARCH "C"
SEE DRWG NO.259.1

APPROXIMATE BOTTOM OF CUTOFF TRENCH

ROCK CLEAVAGE

LINE OF CONTACT-ARCH TO FOOTING BLOCK

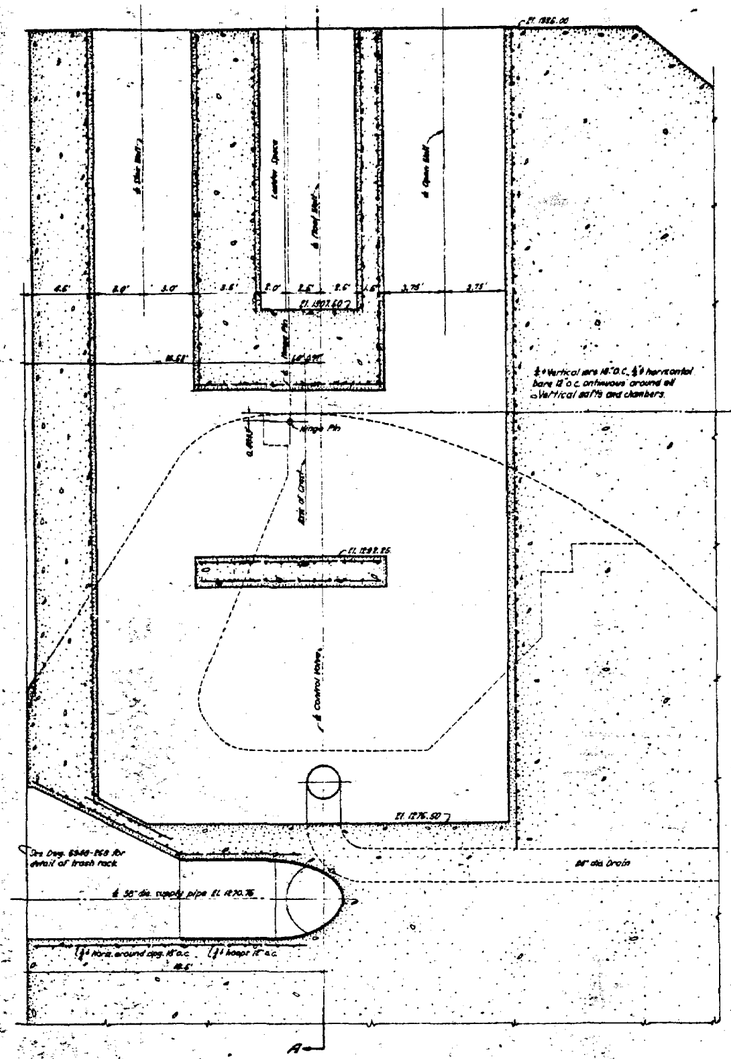
Bottom of cut off trench as excavated

DEVELOPED PROFILE ALONG CREST OF ARCH WITH FOOTING BLOCK
SCALE 1" = 10'

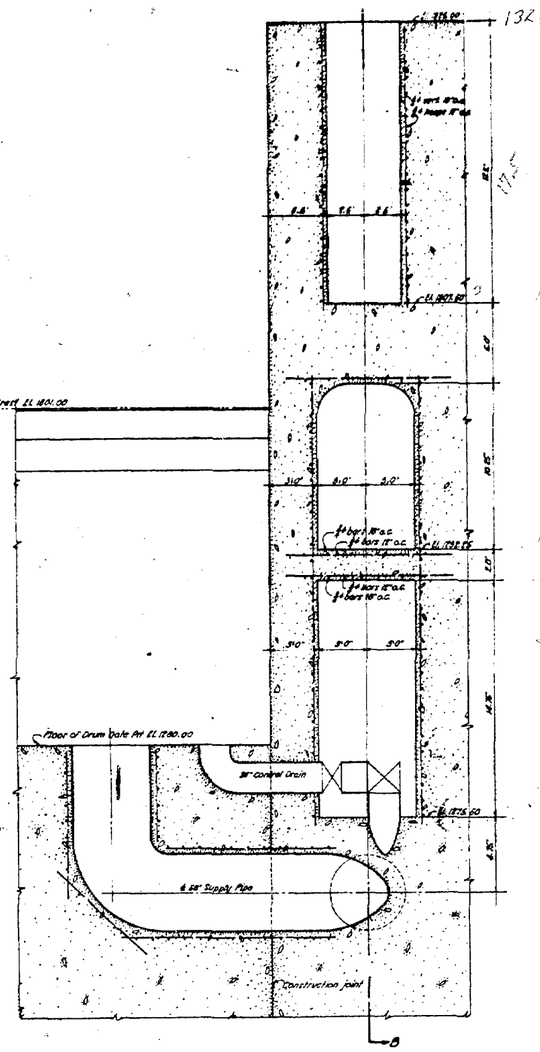
LEEDS, HILL, BARNARD & JEWETT
ARCHITECT-ENGINEER CONTRACT NO W 6948 QM 12

SCALE	CONSTRUCTION DIVISION
AS NOTED	OFFICE OF THE QUARTERMASTER GENERAL
REVISIONS	CAMP SAN LUIS OBISPO
	SALINAS RIVER PROJECT
	SALINAS DAM
	PLAN & SECTIONS

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
BRENDT	RWS	D. P. Sawyer MAJOR Q.M.C.	SEPT. 2, 1941
TRACED BY	WBM		PLAN NUMBER
	RHH		6948-260

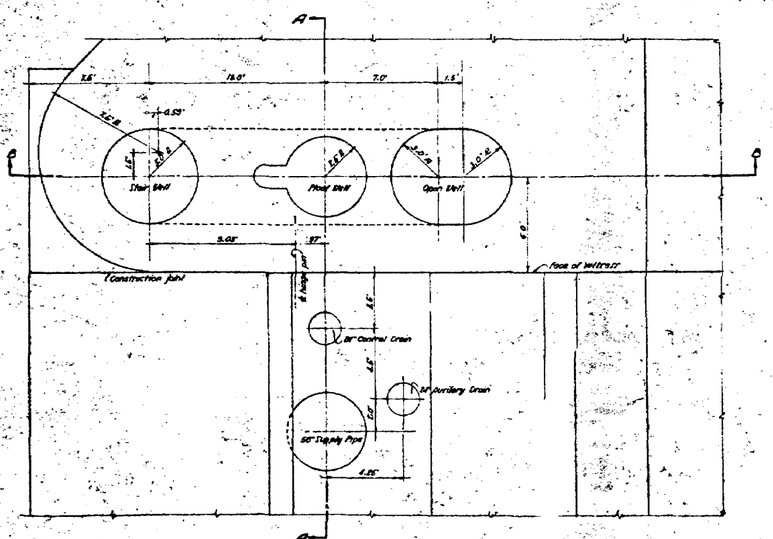


SECTION B-B



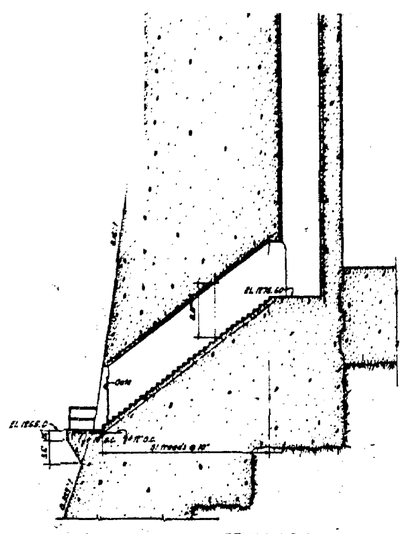
SECTION A-A

Note: For complete piping and mechanical detail see Dwg. 6948-168

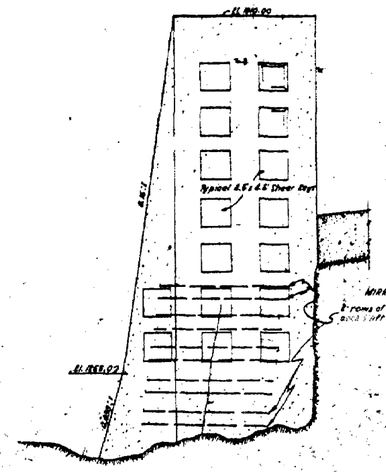


PLAN

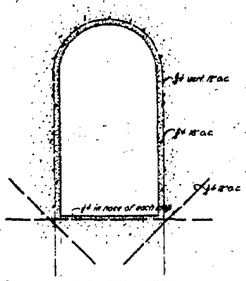
DETAIL OF SPILLWAY GATE OPERATING CHAMBERS
SCALE 1/4" = 1 Ft.



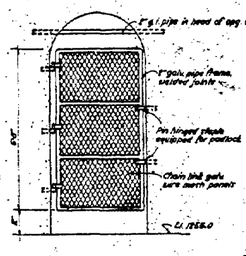
SECTION C-C
Scale 1"=10'



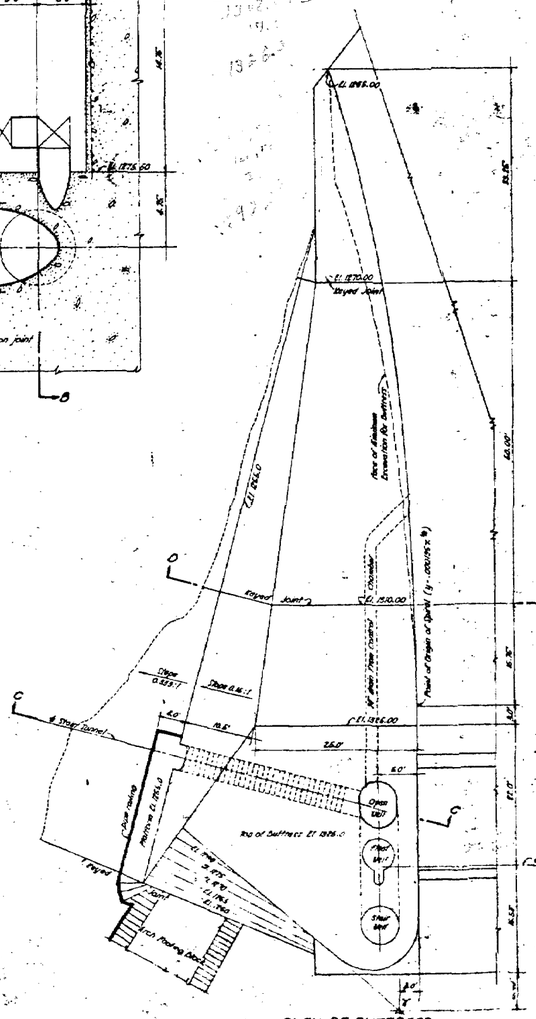
SECTION D-D
ALONG JOINT LINE
Scale 1"=10'



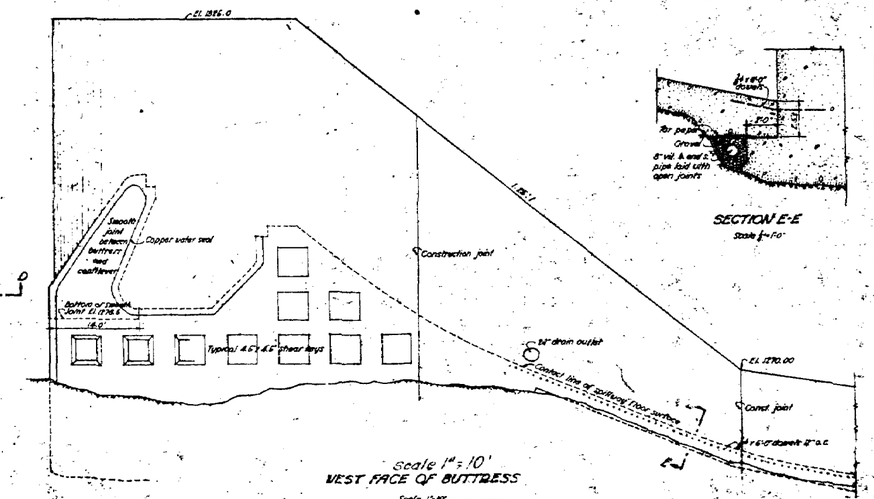
SECTION THRU STAIR TUNNEL
Scale 1"=1'-0"



TUNNEL GATE



PLAN OF BUTTRESS



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

Scale 1"=10'
WEST FACE OF BUTTRESS

LEEDS, HILL, BARNARD & JEWETT
ARCHITECT-ENGINEER CONTRACT NO. W 6948 QM 12

SCALE	CONSTRUCTION DIVISION
AS SHOWN	OFFICE OF THE QUARTERMASTER GENERAL
REVISIONS	CAMP SAN LUIS OBISPO CALIFORNIA
	SALINAS RIVER PROJECT
	SALINAS DAM
	RIGHT BUTTRESS & DETAILS

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
JJC 6/8	WBM	O.R. Lane MAJOR QM.C.	SEPT. 1, 1941
TRACED BY	AAH		PLAN NUMBER
GB			6948-2604

10-27144