

EL CAPITAN
Pipe Line Levels
Cuts and Grades
Sta. 941+25 to 995+25

FIELD BOOK
1312

W208

MICROFILMED
JAN 11 1965

STA.	B. S.	H. I.	F. S.	ELEV.	GRADE	CUT OR		FILL	AREA		CUBIC YARDS	
						LEFT	C.		RIGHT	EXCAVA	EMBANK.	EXCAVA.
980+13 [±]		384.58										
					375929							
+85 [±]			0.7	383.9	378725		5.2					
	12.63	396.40	0.81	383.77								
+63 [±]			9.6	386.8	381.511		5.3					
+50					383.0							
+38 [±]			7.3	389.1	383.155		5.9					
979+13 [±]			7.1	389.3	383.488		5.8					
								Mon 6-28	→			
+88 [±]			7.7	388.7	383.821		4.9					
+63 [±]			7.5	388.9	384.155		4.7					
+38 [±]			7.3	389.1	384.488		4.6					
978+13 [±]			6.9	389.5	384.821		4.7					
+88 [±] B.C.			6.6	389.8	385.154		4.6					
+75			6.5	389.9	385.335		4.6					
+56			4.8	391.6	385.668		5.9					
977+25			4.0	392.4	386.002		6.4					

STA.	B. S.	H. I.	F. S.	ELEVA.	GRADE	CUT OR		FILL	AREA		CUBIC YARDS	
						LEFT	C.		RIGHT	EXCAVA	EMBANK.	EXCAVA.
974+25		396.09			384.4							
974			7.8	388.3	384.0		4.3					
+75			9.8	386.3	381.667		4.6					
+50			11.9	384.2	379.333		4.9					
	2.2	386.47	11.94	384.15								
+25			5.2	381.3	377.000		4.3					
973			8.2	378.3	374.667		3.7					
+75			9.7	376.8	372.333		4.5					
+50			11.2	375.3	370.0		5.3					
	2.01	377.43	11.05	375.42								
+25			5.8	371.6	368.5		3.1					
+10			9.8	367.6	367.6		0.0					
			3.25	374.18								
972					367.0							
B.M.	0.63	374.78		374.15	#16A							
+75					367.5							
+50			6.8	368.0	368.0		0.0					

Supports



June 28, 1926 Clear
 Converse Scribe
 Peirce &
 Simpson Rod Quermut Rd

STA.	B. S.	H. I.	F. S.	ELEVA.	GRADE	CUT OR		FILL RIGHT	AREA		CUBIC YARDS	
						LEFT	G.		EXCAVA	EMBANK.	EXCAVA.	EMBANK.
+50		374.78			368.0		Grade Rod					
+25			1.2	373.6	371.0							
	1140	386.18	0.08	374.78								
971			7.8	378.4	374.0							
+75			4.6	381.6	378.0							
	12.52	398.50	0.11	386.07								
+50			12.0	385.98 386.5	382.0	16.5	4.5					
+25			3.5	390.0	386.0	12.5	4.0					
970			4.6	393.9	390.0	8.5	3.9					
	12.16	410.20	0.46	398.04								
+75			1.5	397.0	392.125	6.4	4.9					
+50			10.2	400.1	394.250	16.0	5.8					
+25			8.1	402.1	396.275	13.8	5.7					
969			6.4	403.8	398.50	11.7	5.3					
+75			3.8	406.4	400.610	9.6	5.8					

STA	STA.	B. S.	H. I.	F. S.	ELEVA.	GRADE	CUT OR		FILL	AREA		CUBIC YARDS	
							LEFT	G.		RIGHT	EXCAVA	EMBANK.	EXCAVA.
957	955+25		303.74			292.50							
+7	955			5.0	298.7	292.00	117	67					
+5	+75			2.9	300.8	291.50	122	93					
+2	+50			3.0	300.7	291.00	127	97					
957	+25			3.9	299.8	290.50	132	93					
+7	954			5.0	298.7	290.00	137	87					
+5	+78.3			5.8	298.0	289.57	142	84					
+2	+53.3			6.4	297.3	289.07	147	82					
950	+28.3			7.5	296.3	288.57	152	77					
+5	+03.3			8.5	295.3	288.07	157	72					
+5	952+78.3			9.6	294.0	287.57	162	64					
		0.96	293.30	11.40	292.34								
+2	+53.3 PC.			04	292.9	287.07	62	58					

STA.	B. S.	H. I.	F. S.	ELEVA.	GRADE	CUT OR		FILL RIGHT	AREA		CUBIC YARDS	
						LEFT	C.		EXCAVA	EMBANK.	EXCAVA.	EMBANK.
95	952+539 PC	293.30			287.07							
	+25		1.6	291.72	286.50	6.8	5.2					
	952		2.5	290.89	286.00	7.3	4.8					
	+75		3.5	289.8	285.50	7.8	4.3					
9	+50		4.5	288.8	285.00	8.3	3.8					
	+25		5.6	287.7	284.50	8.8	3.2					
	951		6.1	287.2	284.00	9.3	3.2					
	+75		6.6	286.7	283.50	9.8	3.1					
9	+50		6.7	286.6	283.00	10.3	3.6					
	+25		7.2	286.1	282.50	10.8	3.6					
	950		7.5	285.6	282.00	11.3	3.8					
	+75		7.3	286.0	281.50	11.8	4.5					

STA.	B. S.	H. I.	F. S.	ELEVA.	GRADE	CUT OR		FILL	AREA		CUBIC YARDS	
						LEFT	C.		RIGHT	EXCAVA	EMBANK.	EXCAVA.
945	949+75	293.30			281.50							
	+50		10.0	283.3	281.00	12.3	2.3					
	+25		6.9	286.4	282.50	10.8	3.9					
	949		5.4	287.9	284.00	9.3	3.9					
9	+75		3.2	290.1	286.38	6.9	3.7					
	+10		0.7	292.7	288.75	4.6	3.9					
	12.47	304.49	1.28	292.02								
	+25		9.5	295.0	291.13	13.4	3.9					
	948		7.2	297.3	293.50	11.0	3.8					
9	+75		4.8	299.7	295.88	8.6	3.8					
	+50		2.3	302.2	298.25	6.2	3.9					
	+25		0.7	302.3	300.63	3.9	3.7					
	11.86	315.60	0.75	303.74								
	947			306.1	303.00	12.6	3.1					

Grade Change

STA.	B. S.	H. I.	F. S.	ELEVA.	GRADE	CUT OR		FILL	AREA		CUBIC YARDS	
						LEFT	C.		RIGHT	EXCAVA	EMBANK.	EXCAVA.
944+25					293.69							
944					291.14							
+75					288.67							
+50					286.20							
+25					283.74							
943					281.27							
+71					278.80							
+50					276.30							
+25					273.87							
942					271.40							
+75					268.93							
+50					266.47							
341+25					264.00							

1.98%
 + 9.867%

L

52
24
12
36

STA.	B. S.	H. I.	F. S.	ELEVA.	GRADE	CUT OR		FILL	AREA		CUBIC YARDS	
						LEFT	C.		RIGHT	EXCAVA	EMBANK.	EXCAVA.
997												
+25					233.00	82						
+50					231.00	192						
+75					229.00	12.2						
998					227.00	11.2	11.0					
+25					226.71	92						
+50					226.67	14.6						
+75												
✓ 999												
+178												
+10					226.00							

FTI-
222 24 2.67 232.75
033 24 2.29 B.M.
771 25 0.38
627 24 2.23 234.96
24 2.67
226 75
592
11
4.1

STA.	B. S.	H. I.	F. S.	ELEVA.	GRADE	CUT OR		FILL	AREA		CUBIC YARDS	
						LEFT	G.		RIGHT	EXCAVA	EMBANK.	EXCAVA.
990+00				254.00				+	H:1	-	Flev	
									2.80	242.80		240.00
									9.72	239.85	12.67	230.13
									7.52	247.20	-0.17	239.68 T.P.
											2.41	244.79 ✓
991				232.00								
+20	Puv			230.40		9.5	-9					
+25				230.00								
+30				230.03		12.8	9.8	5.0				
+40				230.12		9.7	-1.7					
+50	Pior			230.20		9.6	-3.7					
+60				230.20		9.6	-4.3					
+70				230.36		9.5	-5.0					
+80	Piev			230.44		9.4	-5.6					
+90				230.52		9.3	-2.0					
992+00				230.60		9.2	+2.9					
992+10				230.68		9.2	+6.6					
+20				230.76		9.1	+5.9	+4.0		Cut 1.3		
+30				230.84		9.0	+3.7					
992+10				231.00								

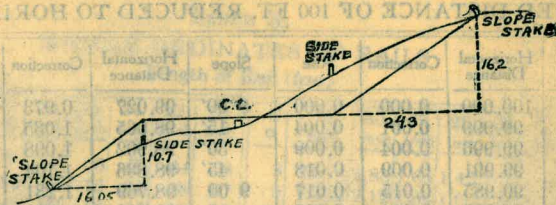
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Rad 2 Rad 15'R

STA.	B. S.	H. I.	F. S.	ELEVA.	GRADE	Gr CUT OR		FILL	AREA		CUBIC YARDS	
						LEFT	C.		RIGHT	EXCAVA	EMBANK.	EXCAVA.
1009+50	5.44	367.55		B.M. 362.11	348.00							
1011+00			6.72	360.83	351.49							
	5.42	366.25 355.41			.56							
+21					352.08	14.17	5.0		6.1	8.2	8.1	
+50					352.56	13.69	5.8		6.5	7.9	7.2	
+75					353.25	13.00	4.9		5.7	8.1	7.3	
1012					353.83	12.42	5.1		5.3	7.3	7.1	
+25					354.41	11.82	5.6		5.2	6.2	6.6	
+50					355.00	11.25	3.9		4.7	7.3	6.5	
+75					355.31	10.9	4.3		4.7	6.6	6.2	
1013					355.62	10.6	5.7		4.6	4.9	6.0	
+25					355.92	10.3	5.1		5.4	5.2	4.9	
+50					356.23	10.0	5.1		4.8	4.9	5.2	
+75					356.54	9.7	4.8		4.7	4.9	5.0	

$\frac{66.25}{57.16}$	$\frac{66.25}{56.85}$	$\frac{66.25}{57.46}$	$\frac{66.25}{57.77}$
9.09	9.40	8.79	8.48

$\frac{66.25}{58.08}$	$\frac{66.25}{58.39}$	$\frac{66.25}{58.70}$	$\frac{66.25}{59.00}$
8.17	7.86	7.53	7.25



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE 1 1/2 TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	0
1	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
2	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20	4.35	2
3	4.50	4.65	4.80	4.95	5.10	5.25	5.40	5.55	5.70	5.85	3
4	6.00	6.15	6.30	6.45	6.60	6.75	6.90	7.05	7.20	7.35	4
5	7.50	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85	5
6	9.00	9.15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.35	6
7	10.50	10.65	10.80	10.95	11.10	11.25	11.40	11.55	11.70	11.85	7
8	12.00	12.15	12.30	12.45	12.60	12.75	12.90	13.05	13.20	13.35	8
9	13.50	13.65	13.80	13.95	14.10	14.25	14.40	14.55	14.70	14.85	9
10	15.00	15.15	15.30	15.45	15.60	15.75	15.90	16.05	16.20	16.35	10
11	16.50	16.65	16.80	16.95	17.10	17.25	17.40	17.55	17.70	17.85	11
12	18.00	18.15	18.30	18.45	18.60	18.75	18.90	19.05	19.20	19.35	12
13	19.50	19.65	19.80	19.95	20.10	20.25	20.40	20.55	20.70	20.85	13
14	21.00	21.15	21.30	21.45	21.60	21.75	21.90	22.05	22.20	22.35	14
15	22.50	22.65	22.80	22.95	23.10	23.25	23.40	23.55	23.70	23.85	15
16	24.00	24.15	24.30	24.45	24.60	24.75	24.90	25.05	25.20	25.35	16
17	25.50	25.65	25.80	25.95	26.10	26.25	26.40	26.55	26.70	26.85	17
18	27.00	27.15	27.30	27.45	27.60	27.75	27.90	28.05	28.20	28.35	18
19	28.50	28.65	28.80	28.95	29.10	29.25	29.40	29.55	29.70	29.85	19
20	30.00	30.15	30.30	30.45	30.60	30.75	30.90	31.05	31.20	31.35	20
21	31.50	31.65	31.80	31.95	32.10	32.25	32.40	32.55	32.70	32.85	21
22	33.00	33.15	33.30	33.45	33.60	33.75	33.90	34.05	34.20	34.35	22
23	34.50	34.65	34.80	34.95	35.10	35.25	35.40	35.55	35.70	35.85	23
24	36.00	36.15	36.30	36.45	36.60	36.75	36.90	37.05	37.20	37.35	24
25	37.50	37.65	37.80	37.95	38.10	38.25	38.40	38.55	38.70	38.85	25
26	39.00	39.15	39.30	39.45	39.60	39.75	39.90	40.05	40.20	40.35	26
27	40.50	40.65	40.80	40.95	41.10	41.25	41.40	41.55	41.70	41.85	27
28	42.00	42.15	42.30	42.45	42.60	42.75	42.90	43.05	43.20	43.35	28
29	43.50	43.65	43.80	43.95	44.10	44.25	44.40	44.55	44.70	44.85	29
30	45.00	45.15	45.30	45.45	45.60	45.75	45.90	46.05	46.20	46.35	30
31	46.50	46.65	46.80	46.95	47.10	47.25	47.40	47.55	47.70	47.85	31
32	48.00	48.15	48.30	48.45	48.60	48.75	48.90	49.05	49.20	49.35	32
33	49.50	49.65	49.80	49.95	50.10	50.25	50.40	50.55	50.70	50.85	33
34	51.00	51.15	51.30	51.45	51.60	51.75	51.90	52.05	52.20	52.35	34
35	52.50	52.65	52.80	52.95	53.10	53.25	53.40	53.55	53.70	53.85	35
36	54.00	54.15	54.30	54.45	54.60	54.75	54.90	55.05	55.20	55.35	36
37	55.50	55.65	55.80	55.95	56.10	56.25	56.40	56.55	56.70	56.85	37
38	57.00	57.15	57.30	57.45	57.60	57.75	57.90	58.05	58.20	58.35	38
39	58.50	58.65	58.80	58.95	59.10	59.25	59.40	59.55	59.70	59.85	39
40	60.00	60.15	60.30	60.45	60.60	60.75	60.90	61.05	61.20	61.35	40
41	61.50	61.65	61.80	61.95	62.10	62.25	62.40	62.55	62.70	62.85	41
42	63.00	63.15	63.30	63.45	63.60	63.75	63.90	64.05	64.20	64.35	42
43	64.50	64.65	64.80	64.95	65.10	65.25	65.40	65.55	65.70	65.85	43
44	66.00	66.15	66.30	66.45	66.60	66.75	66.90	67.05	67.20	67.35	44
45	67.50	67.65	67.80	67.95	68.10	68.25	68.40	68.55	68.70	68.85	45
46	69.00	69.15	69.30	69.45	69.60	69.75	69.90	70.05	70.20	70.35	46
47	70.50	70.65	70.80	70.95	71.10	71.25	71.40	71.55	71.70	71.85	47
48	72.00	72.15	72.30	72.45	72.60	72.75	72.90	73.05	73.20	73.35	48
49	73.50	73.65	73.80	73.95	74.10	74.25	74.40	74.55	74.70	74.85	49
50	75.00	75.15	75.30	75.45	75.60	75.75	75.90	76.05	76.20	76.35	50

Computed by L. Leland Locke.

23
6.5 17
28

To

B.M. 112. 961+00 Hub near. 383.643

113 50'R. 962+66 390.248

114 30'L. 969+00 Rock 405.190

115 15'R. 970+65 Rock 385.983

116 35'R. 972+00 363.822

116.A. 50'L. 971+80 374.152

117 50'R. 976+65 389.319

118. 15'L. 980+18 380.950

119 50'R. 984+70 339.990

120 20'R. 986+90 334.936

121

997+75 End. 7-13-26

550
400

1.4
4)56
4
16

2786
4)11.143
8
31
28
34
32
23

1142+70 - 182.60

1143+00 182.00

1143+30 181.40

1143+60 180.80

1143+60

2
3