

MISSION BAY

No 36

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NOV 18 1881

DEPT OF AGRICULTURE

WASHINGTON

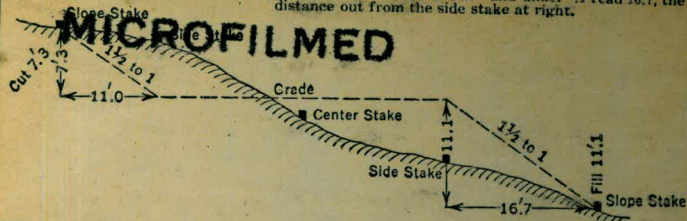
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**DISTANCES FROM SIDE STAKES FOR CROSS - SECTIONING**  
 Roadway of any Width. Side Slopes 1 1/2 to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



BOOK #36

W-105-7.82  
~~103-7.37~~  
 103-8.18

163700  
 64  
 65  
 67

19  
 36  
 08  
 3.66

Cut or Fill	Distance out from Side or Shoulder Stake											Cut or Fill
	0	.1	.2	.3	.4	.5	.6	.7	.8	.9		
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4		0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9		1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4		2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9		3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4		4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9		5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4		6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9		7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4		8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9		9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4		10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9		11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4		12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9		13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4		14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9		15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4		16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9		17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4		18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9		19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4		20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9		21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4		22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9		23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4		24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9		25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4		26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9		27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4		28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9		29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4		30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9		31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4		32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9		33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4		34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9		35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4		36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9		37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4		38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9		39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4		40

KEUFFEL & ESSER CO., N. Y.

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29, JUNE 1946

MEAN HIGH TIDE &amp; TOPO SURVEY OF

PX

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SOUTH PORTIONS OF LOTS 73 &amp; 74

STA.	OBJ.	AZIMUTH	DIST	ROD	ELEV.	REMARKS
B.M.		HI = 30.77		+1.49	29.28	"MORRELL" CONC MON.
B.M.				-2.60	28.17	S.E. CORNER 1ST STEP IN FRONT OF HOUSE 3976 MORRELL ST.
T.P.				-13.42	17.35	
		HI = 20.05		+2.70	17.35	
B.M.				-11.25	8.80	HAMMER MARKS IN NORTH EDGE OF EAST STEEL RIM ON TOP OF MANHOLE OF MORRELL
		HI = 11.36		+2.56	8.80	
"A"	"B"	185° 48' 30"	520.28			
	1	28° 40'	166.0	5.4	6.0	
	2	21° 02'	90.0	"	"	
	3	202° 12'	40.0	"	"	
	4	203° 41'	145.0	"	"	
	5	204° 39'	260.0	"	"	
T.P. #1				-5.55	5.81	
		HI = 10.23		+4.42	5.81	T.P. #1
"B"	"C"	53° 42'	410.75			
	6	329° 28'	219.0	4.2	6.0	
	7	291° 08'	172.0	"	"	



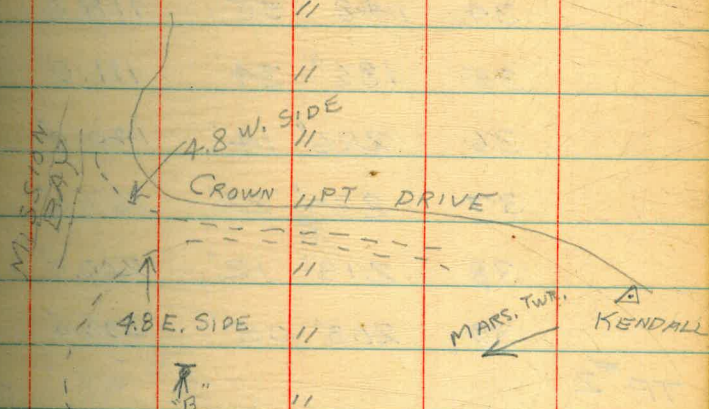
6-29-48

②

HI 10.23

PX

STA.	OBJECT	AZIMUTH	DIST.	ROD	ELEV.	REMARKS
"B"	8	246° 35'	212.0'	4.2	6.0	
	9	218° 20'	270.0'	"	"	
	10	220° 00'	360.0'	"	"	
	11	217° 11'	352.0'	5.4	4.8	
	12	206° 13'	368.0'	8.2	2.0	
	13	194° 52'	272.0'	"	"	
	14	218° 39'	230.0'	5.4	4.8	WEST SIDE OF SLOUGH
	15	242° 10'	201.0'	"	"	"
	16	259° 15'	165.0'	"	"	"
	17	266° 55'	130.0'	"	"	"
	18	272° 51'	149.0'	"	"	"
	19	280° 13'	165.0'	"	"	"
	20	311° 23'	173.0'	"	"	"
	21	331° 06'	210.0'	"	"	"
	22	347° 20'	260.0'	"	"	"
	23	358° 08'	340.0'	"	"	"
	24	12° 41'	310.0	5.1	5.1	SIDE SHOT EAST SIDE
	25	30° 03'	290.0	5.1	5.1	SIDE SHOT "
	26	37° 57'	243.0	5.4	4.8	E. SIDE SLOUGH





H.I. = 10.23

PX

STA.	OBJECT	AZIMUTH	DIST.	ROD	ELEV.	REMARKS
"B"	27	41° 22'	161.0'	5.4	4.8	EAST SIDE OF SLOUGH
	28	70° 40'	108.0'	"	"	"
	29	124° 11'	72.0'	"	"	"
	30	188° 50'	66.0'	"	"	"
	31	236° 45'	120.0'	"	"	"
	32	78° 02'	160.0'	7.5	2.7	Edge of Grass
	33	105° 35'	120.0'	7.5	2.7	"
	34	148° 55'	118.0'	"	"	"
	35	186° 34'	111.0'	"	"	"
	36	226° 14'	140.0'	"	"	"
	37	234° 22'	167.0'	"	"	"
	38	213° 12'	200.0'	"	"	"
	39	208° 05'	290.0'	"	"	"
TP #2				-5.20	5.03	T.P. #2
		H.I. = 9.58		+4.55	5.03	TP #2
"C"	"B"	233° 42'	410.75'			
	40	267°	130.0'	4.8	4.8	
	41	287° 28'	105.0'	"		
	42	308° 20'	100.0'	"		



6-23-18

④

HI = 9.58

PX

STA.	OBJECT	AZIMUTH		DIST.	ROD	ELEV.	REMARKS
		H.I.	9.58				
"C"	"B."	233°	42'	410.75'			
	43	331°	08'	110.0'	4.8	4.8	
	44	354°	25'	149.0'	"		
	45	12°	02'	200.0'	"		
	46	22°	28'	246.0'	"		
	47	26°	09'	260.0'	"		
	48	35°	39'	280.0'	"		
	49	53°	53'	214.0'	"		
	50	65°	49'	185.0'	"		
	51	94°	00'	180.0'			
	52	116°	09'	200.0'			
	53	145°	31'	211.0'			
	54	143°	00'	273.0'			
	55	108°	45'	402.0'			
	56	103.0°	00'	415.0'	6.9	2.7	West Bank of Slough
	57	96°	08'	358.0'	6.9	"	"
	58	82°	17'	320.0'	6.9	"	"
	59	71°	45'	310.0'	6.9	"	"



PX

T Sta.	Object	Azimuth		Dist	Rod	Elev	Remarks
		H.I. 9.58					
"C"	"B."	233°	42'	410.75	6.9	2.7	
	60	51°	18'	313.0'	6.9	2.7	West Bank of Slough.
	61	33°	51'	326.0'	6.9	—	"
	62	23°	05'	356.0'	6.9	—	"
	63	219°	21'	170.0'	6.9	—	South Edge of Grass
	64	196°	21'	170.0'	6.9	—	"
	65	179°	28'	245.0'	6.9	—	"
	66	159°	52'	355.0'	6.9	—	"
T.P. # 3					-4.74	4.84	
		H.I.	9.48		+4.64	4.84	
"D"	"C"	309°	15'				
	67	246°	13'	160.0'	6.8	2.7	South Edge of Grass
	68	181°	18'	155.0'	6.8	—	"
	69	147°	33'	212.0	6.8	—	"
T.P. # 4					-4.65	4.83	
		H.I.	9.71		+4.88	4.83	
"E"	"D"	300°	00'				
	70	229°	03'	85.0	7.0	2.7	South Edge of Grass.



PK

Sta	Object	Azimuth	Dist	Rod	Elev	Remarks
		HI. 9.71				
"E"	"J"	300° 00'				
		HI. 9.71				
71	71	137° 04'	113.0'	7.0	2.7	South Edge of Grass
72	72	112° 06'	202.0'	7.0	—	"
73	73	106° 01'	151.0'	7.0	—	West Edge of Slough
74	74	87° 58'	64.0'	7.0	—	"
T.P. # 5	T.P. # 5			- 4.87	4.84	
75	75	12° 56'	73.0'	7.0	2.7	"
76	76	342° 40'	190.0'	7.0	—	"
77	77	332° 39'	304.0'	7.0	—	"
BM				+1.38	8.60	HAMMER MARKS N. EDGE OF MAN-HOLE RIM OPPOSITE "MORRELL"
		HI = 10.18				
"O"	"A"	231° 33'	285.42			
		265°				
	78	165° 35'	125.0'	4.2	6.0	
	79	301° 02'	82.0'	"	"	
	80	329° 19'	80.0'	"	"	
	81	16° 51'	83.0'	"	"	
	82	28° 09'	157.0'	"	"	



June 30-1948

HI = 10.18

6-30-48

②

PX

Sta.	Object	Azimuth	DIST	ROD	ELEV.	REMARKS
"0"	83	42° 37'	179.0'	7.5	2.7	WEST SIDE OF SLOUGH
	84	79° 16'	147.0'	"	"	" " " "
	85	112° 33'	180.0'	"	"	" " " "
	86	125° 37'	280.0'	"	"	" " " "
	87	130° 20'	390.0'	"	"	" " " "
	88	132° 30'	460.0'	"	"	" " " "
	89	137° 10'	530.0'	"	"	" " " "
	90	138° 25'	531.0'	5.4	4.8	" " " "
	91	137° 26'	460.0'	"	"	" " " "
	92	135° 13'	371.0'	"	"	" " " "
	93	126° 28'	280.0'	"	"	EDGE " " "
	94	112° 19'	173.0'	"	"	" " " "
	95	79° 54'	142.0'	"	"	" " " "
	96	59° 24'	145.0'	"	"	" " " "
	97	41° 15'	175.0'	"	"	" " " "
	TP #6				-3.45	6.73
		H.I. = 12.11			+5.38	6.73
						TP #6
N.	"0"	198° 58'	270.64			
	98	184° 28'	45.0'	6.1	6.0	AROUND KENDALL'S HOUSE



HI 12.11

6-30-98

⑧

PX

STA.	OBJ	AZIMUTH	DIST.	ROD	ELEV.	REMARKS
"N"	99	22° 17'	8.0'	6.1	6.0	
	100	319° 53'	11.0'	"	"	
	101	210° 39'	40.0'	"	"	
	102	287° 35'	89.0'	"	"	
	103	308° 33'	135.0'	"	"	
	104	324° 30'	220.0'	"	"	
	105	338° 27'	274.0'	"	"	
	106	355° 45'	228.0'	7.3	4.8	WEST EDGE OF SEWER DITCH
	107	349° 00'	110.0'	"	"	" " " " "
	108	214° 20'	30.0'	"	"	SOUTH END SEWER DITCH
	109	306° 15'	13.0'	"	"	EAST EDGE OF SEWER DITCH
	110	356° 50'	120.0'	"	"	" " " " "
	111	359° 30'	215.0'	"	"	" " " " "
	112	00° 13'	215.0'	6.1	6.0	ON DIKE EAST OF SEWER
	113	03° 29'	213.0'	"	"	" " " " "
	114	357° 43'	116.0'	"	"	" " " " "
	115	04° 05'	109.0'	"	"	" " " " "
	116	332° 09'	20.0'	7.3	4.8	EAST EDGE OF SEWER DITCH
	117	335° 59'	19.0'	6.1	6.0	ON DIKE EAST OF SEWER



H.I. 12.11

PX

STA	OBJ	AZIMUTH	DIST	ROD	ELEV	REMARKS
"N"	118	09° 44'	18.5'	6.1	6.0	SOUTH DEAD END DIKE EAST OF SEWER
	119	91° 36'	40.0'	7.3	4.8	AT Y IN <del>SEWER</del> SLOUGH AT KENDALL
	120	112° 35'	40.0'	"	"	" " " " " "
	121	95° 02'	30.0'	"	"	WEST SIDE WEST FORK
	122	137° 53'	50.0'	"	"	ADD 2' DIST FOR 2.7 ELEV, " " " " MAIN SLOUGH
0	123	166° 20'	140.0'	"	"	" " " " " "
0	124	165° 21'	132.0'	9.4	2.7	" " " " " "
	125	48° 18'	77.0'	7.3	4.8	NORTH OF FORK WEST SIDE MAIN SLOUGH
	126	48° 18'	79.0'	9.4	2.7	" " " " " "
	127	29° 40'	148.0'	7.3	4.8	" " " " " "
	128	38° 55'	163.0'	"	"	" " " " " " S CURVE IN SLOUGH
	129	41° 28'	141.0'	9.4	2.7	" " " " " "
	130	38° 27'	225.0'	7.3	4.8	" " " " " "
	132	47° 15'	227.0'	9.4	2.7	" " " " " "
	133	48° 11'	129.0'	"	"	EAST SIDE OF SLOUGH
	134	48° 41'	129.0'	7.3	4.8	" " " " " "
	135	48° 30'	173.0'	"	"	" " " " " "
	136	48° 30'	173.0'	9.4	2.7	" " " " " "
	137	42° 08'	140.0'	7.3	4.8	" " " " " "



HI = 12.11

PX

STA.	OBJ.	AZIMUTH	DIST	ROD	ELEV.	REMARKS
"N"	138	42° 08'	142.0	9.4	2.7	EAST EDGE OF SLOUGH
	139	36° 57'	132.0	7.3	4.8	" " " "
	140	32° 45'	144.0	9.4	2.7	" " " "
	141	74° 22'	82.0	7.3	4.8	" " " "
	142	74° 22'	55.0	9.4	2.7	" " " "
	143	102° 19'	81.0	7.3	4.8	" SIDE " "
	144	148° 43'	122.0	"	"	" " " "
	145	157° 51'	110.0	9.4	2.7	" EDGE " "
	146	164° 09'	200.0	"	"	" " " "
	147	164° 38'	300.0	"	"	" " " "
	148	163° 41'	380.0	"	"	" " " "
	149	159° 53'	442.0	"	"	" " " "
	150	155° 34'	442.0	7.3	4.8	" SIDE " "
	151	157° 51'	321.0	"	"	" " " "
	152	153° 15'	220.0	"	"	" " " "
	153	144° 09'	160.0	"	"	" " " "
	TP # 7			-4.4	7.70	T.P. # 7
		HI = 12.80		+5.10	7.70	TP # 7



6-30-98

①

HI=12.80

PX

STA.	OBJ.	AZIMUTH	DIST.	ROD	ELEV.	REMARKS.
"M."	"N"	182° 04'	392.0'			
154		246° 14'	80.0'	6.8	6.0	NEAR CROWN PT. DRIVE N. OF KENDALL
155		320° 00'	102.0'	"	"	" " " " "
156		326° 04'	190.0'	"	"	" " " " "
157		333° 48'	193.0'	"	"	" " " " "
158		341° 42'	175.0'	"	"	" " " " "
159		00° 14'	151.0'	"	"	ALONG DIKE. EAST. OF SEWER
160		351° 01'	47.0'	"	"	" " " " "
161		03° 40'	46.0'	"	6.0	" " " " " EAST SIDE
162		347° 20'	46.0'	8.0	4.8	ALONG SEWER DITCH EAST SIDE
163		354° 49'	155.0'	"	"	W. END OF SEWER DITCH
164		02° 59'	150.0'	6.8	6.0	DIKE - EAST SIDE -
165				8.0	4.8	WEST OF SLOUGH
166		131° 53'	255.0'	10.1	2.7	" " "
167		126° 45'	226.0'	8.0	4.8	" " "
168		128° 18'	230.0'	10.1	2.7	" " "
169		127° 47'	211.0'	8.0	4.8	End of " " " Slough
170		111° 09'	216.0'	10.1	2.7	End of 2.7 Contour, in Slough.



PX

Sta	Obj.	Azimuth	Dist	Red	Elev	Remarks
"M"	"N"	182° 04'	392.0'			
		H.I. - 12.80				
171		110° 17'	211.0'	8.0	4.8	West of Slough.
172		91° 00'	222.0'	8.0	"	" " "
173		91° 33'	227.0'	9.5	3.3	Bottom of Slough
174		80° 21'	310.0'	8.8	4.0	" " "
175		78° 39'	305.0'	8.0	4.8	
176		69° 57'	375.0'	8.0	"	
177		72° 20'	385.0'	8.5	4.3	Bottom of Slough
178		74° 52'	380.0'	8.0	4.8	East Side of Slough
179		86° 06'	300.0'	8.0	"	" "
180		94° 00'	244.0'	8.0	"	" "
181		114° 22'	240.0'	8.0	"	" "
182		124° 08'	248.0'	8.0	"	" "
T.P.	# 8			- 6.97	5.83	T.P. # 8
				+ 5.55	5.83	T.P. # 8
"L"	N.E. Cor Lot 73	N.E. Cor 234° 15'	226.15'			
		H.I. - 11.38				



11.4  
5.1  
6.0

6-30-78

(13)

PX

Sta	Obj.	Azimuth	Dist	Rod	Elev.	Remarks
" L"	N.E. Cor Lot. 73	234°	15'	226.15		
		H. I	11.38			
	183	216°	27'	328.0'	5.4	6.0
	184	221.°	47'	250.0'	5.4	"
	185					
B.M.				2.95	8.43	Top of Concrete Man. N.E. Cor Lot. 73
	186	241°	17'	200.0'	5.4	6.0
	187	272°	33'	128.0'	5.4	"
	188	313°	44'	144.0'	5.4	"
	189	24°	29'	117.0'	5.4	" (TIES TO #223)
	190	40°	20'	151.0'	5.4	"
	191	40°	46'	165.0'	6.6	4.8 West Side of Slough
	192	22°	51'	210.0'	5.4	6.0 "
	193	23°	39'	214.0'	6.6	4.8 "
	194	21°	48'	310.0'	5.4	6.0 "
	194	22°	27'	310.0'	6.6	4.8 "
	195	26°	44'	432.0'	5.4	6.0 "
	196	28°	09'	415.0'	6.6	4.8 End of 4.8' Contour.



Sta	Obj.	Azimuth	Dist	Red	Elev	Remarks
		H.I. <u>11.38</u>				
"L"	N.E. Con Lot. 73	234°	15'	226.15'		
197		28°	29'	480.0'	5.4	6.0 West Side of Slough
198		31°	09'	410.0'	5.4	" East Side of Slough
199		28°	14'	303.0'	5.4	" "
200		25°	22'	303.0'	6.6	4.8 "
201		31°	38'	210.0'	5.4	6.0 "
202		31°	12'	210.0	6.6	4.8 "
203		57°	23'	200.0	5.4	6.0 "
204		57°	11'	189.0'	6.6	4.8 "
205		80°	41'	236.0	5.4	6.0 "
206		87°	02'	212.0'	6.6	4.8 "
207		107°	31'	318.0'	5.4	6.0 "
208		107°	41'	318.0'	6.6	4.8 "
209		125°	21'	360.0	5.4	6.0 "
210		125°	37'	360.0	6.6	4.8 "
211		139°	15'	350.0'	5.4	6.0 West Side of Slough
212		139°	06'	360.0	6.6	4.8



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PX

(15)

Sta.	Obj.	Azimuth	Dist	Red	Elev.	Remarks
"L."	N.E. Cor Lot 73	234° 15'	226.15'			
	H.I	11.38				
213		114° 35'	303.0'	5.4	6.0	West Side of Slough
214		114° 16'	310.0	6.6	4.8	" "
215		101.° 45'	215.0	5.4	6.0	" "
216		101.° 20'	217.0'	6.6	4.8	" "
217		73° 36'	155.0'	5.4	6.0	" "
218		73° 12'	154.0'	6.6	4.8	" "
219		143° 46'	328.0'	5.4	6.0	" "
220		134° 04'	244.0'	5.4	6.0	" "
221		120° 15'	162.0'	5.4	6.0	" "
222		114° 21'	60.0'	5.4	6.0	" "
223		52° 02'	22.0'	6.4	6.0	(TIES IN TO POINT #189)
T.P. # 9				- 5.71	5.67	
		H.I = 11.42		+ 5.75	5.67	T.P. #9
CONC MON	L	262° 15'	444.75'			GLOVER'S CONC. MON.
224		193° 32'	490.0'	5.4	6.0	EAST SIDE OF SLOUGH
225		178° 24'	530.0'	"	"	" " " "
226		164° 44'	532.0'	"	"	" " " "



HI = 11.42

PX

Sta.	Obj	Azimuth	Dist	Red	Elev.	Remarks
CONC Man.	227	155° 00'	673.0'	5.4	6.0	EAST SIDE OF SLOUGH
T.P. #10	228			-2.77	8.65	" " " "
	229					
T.P. #11	230			-4.94	6.92	
T.P. #12				-6.01	4.59	
T.P. #13				-4.40	5.24	
T.P. #5				-4.37	4.88	CHECK IN TO T.P. #5 ELEV. 4.84
"F"	"G"	329° 10'	443.21			
	228	285° 55'	256.0'	6.3	2.7	EAST EDGE OF SLOUGH
	229	270° 00'	198.0'	"	"	" " " "
	230	253° 08'	136.0'	"	"	" " " "
	231	188° 32'	104.0'	"	"	" " " "
	232	181° 35'	132.0'	"	"	" " " "
	233	174° 56'	228.0'	"	"	" " " "
	234	158° 15'	330.0'	"	"	" " " "



HI = 8.99

PX

STA.	OBJ.	AZIMUTH	DIST.	ROD	ELEV.	REMARKS
"F"	235	139° 28'	269.0'	6.3	2.7	EAST OF SLOUGH EDGE OF GRASS
	236	114° 27'	235.0'	"	"	" " " " " "
	237	<sup>78</sup> 178° 46'	173.0'	"	"	" " " " " "
	238	37° 00'	220.0'	"	"	" " " " " "
	239	20° 50'	235.0'	"	"	" " " " " "
	240	01° 49'	350.0'	"	"	" " " " " "

TP #13

4.03 5.24 T.P. #13

HI = 9.27

STA.	OBJ.	AZIMUTH	DIST.	ROD	ELEV.	REMARKS
"G"	"H"	330° 00' 30"	515.38'			
	241	11° 10'	268.0'	6.6	2.7	EAST OF SLOUGH EDGE OF GRASS
	242	42° 24'	220.0'	"	"	" " " " " "
	243	196° 20'	250.0'	"	"	EAST EDGE OF SLOUGH
	244	223° 14'	210.0'	"	"	" " " " " "
	245	252° 40'	245.0'	"	"	" " " " " "
	246	274° 05'	350.0'	"	"	" " " " " "
	247	272° 30'	275.0'	4.5	4.8	EAST OF SLOUGH
	248	249° 35'	145.0'	"	"	" " " " " "
	249	296° 05'	105.0'	"	"	" " " " " "
	250	336° 55'	120.0'	"	"	" " " " " "



7-1-48

PX

(18)

STA.	OBJ.	AZIMUTH	DIST.	ROD	ELEV.	REMARKS
"G"	251	344° 32'	198.0'	4.5	4.8	EAST OF SLOUGH
TP#13				+4.33	5.24	
		HI = 9.57				
"H"	"I"	31° 53'	558.15			
	252	142° 22'	262.0'	4.8	4.8	EAST OF SLOUGH
	253	127° 48'	165.0'	"	"	" "
	254	107° 07'	70.0'	"	"	" "
	255	-134° 50'	55.0'	"	"	" "
	256	223° 45'	11.0'	"	"	" "
	257	298° 58'	70.0'	"	"	" "
	258	308° 35'	115.0'	"	"	" "
	259	319° 28'	160.0'	"	"	" "
	260	342° 19'	210.0'	"	"	" "
	261	353° 12'	185.0'	"	"	" "
	262	04° 50'	195.0'	"	"	" "
	263	19° 39'	256.0'	"	"	" "
	264	30° 30'	285.0'	"	"	" "
	265	37° 20'	355.0'	"	"	" "



PX

Sta.	Obj.	Azimuth	Dist	Red	Elev	Remarks
<del>"G"</del>						
"H"		H. I 9.57				
266	266	42°	35'	435.0'	4.8	4.8
267	267	46°	49'	480.0'	4.8	"
268	268	55°	30'	468.0'	6.9	2.7 S.E. Edge of Grass
269	269	55°	08'	350.0'	"	" " "
270	270	63°	35'	203.0'	"	" East Edge of Grass
271	271	96°	42'	265.0'	"	" " " "
272	272	196°	01'	405.0'	"	" East Edge of Slough
273	273	194°	56'	353.0'	4.8	4.8 " "
274	274	224°	15'	275.0'	6.9	2.7 " "
275	275	228°	02'	265.0'	4.8	4.8 " "
276	276	262°	10'	327.0'	6.9	2.7 " "
277	277	265°	14'	302.0'	4.8	4.8 " "



7.7

- 56

PX

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(20)

Sta	Obj	Azimuth	Dist	Red	Elev	Remarks
-----	-----	---------	------	-----	------	---------

"J"	"J"	65° 03'	643.73'			
-----	-----	---------	---------	--	--	--

H. I - 10.47

+5.82 4.59

278	120°	02'	200.0'	5.6	4.8	
-----	------	-----	--------	-----	-----	--

279	120°	43'	260.0'	7.7	2.7	So. Edge of Grass
-----	------	-----	--------	-----	-----	-------------------

280	94°	33'	310.0'	5.6	4.8	
-----	-----	-----	--------	-----	-----	--

281	101°	40'	360.0'	7.7	2.7	So. Edge of Grass
-----	------	-----	--------	-----	-----	-------------------

282	93°	29'	450.0'	7.7	2.7	" " "
-----	-----	-----	--------	-----	-----	-------

283	86°	27'	467.0'	5.6	4.8	
-----	-----	-----	--------	-----	-----	--

284	67°	08'	490.0'	4.4	6.0	
-----	-----	-----	--------	-----	-----	--

285	63°	57'	345.0'	4.4	6.0	
-----	-----	-----	--------	-----	-----	--

286	74°	50'	245.0'	4.4	6.0	
-----	-----	-----	--------	-----	-----	--

(TIE TO PL #2 FROM GLOVER'S MON.)

CONC  
MON.

"L" 262° 15'

PL #2 233° 11'

$$\begin{array}{r} 180 \\ 233 \\ \hline 553 \end{array}$$

553° 11' W

GLOVER'S MON.

CONC. MON ON PUEBLO L&DT CORNER  
S.E. OF GLOVER'S MON. 78.93'



STA OBJ. ANGLE DIST.

CONC. MON.  
ELY LINE LT. 72  
& NWLY. CR. PT. DRIVE

U.S.E.D.  
MORRELL R ↘  
MARSTONS  
T.W.R.

1. 126° 15' 00"  
2. 252° 30' 00"  
AV. 126° 15' 00"

115.83'

2x2 HUB. 471  
S.O.F. S.E. COR.  
LT. 43-BLK. 5  
VENICE PARK

CONC. MON. ELY  
LINE LT. 72 &  
CR. PT. DRIVE R ↘  
U.S.E.D.  
MORRELL

1. 151° 37' 00"  
2. 303° 13' 30"  
AV. 151° 36' 45"

24.66'

R.E. No. 469  
1/4 S.E. COR.  
LT. 25, BLK. 2  
VENICE PARK

2x2 471 S.O.F.  
S.E. COR. LT. 73  
LT. ↘  
CONC. MON.  
LINE LT. 72,  
CR. PT. DR.

1. 127° 07' 00"  
2. 254° 14' 00"  
AV. 127° 07' 00"

CONC. MON. N/E  
COR. LOT 72

R.I. & PAC. BCH. DRIVE  
&  
WESTERN LINE OF  
MORRELL ST. R ↘  
2x2 471 S.O.F.  
S/E COR. LOT 73

1. 90° 00' 00"  
2. 180° 00' 00"  
AV. 90° 00' 00"



## FINAL X-SECTIONS OF SLOPES DE-ANZA COVE

(SEE F.B. #22 PP. 70-71-72)

STA	+	H.I.	-	ELEV
B.M.	3.89	15.98		12.09
T.P.	4.08	15.96	-4.60	11.38

STA-79+00 W

0+00=STA-W-79+00 DE-ANZA COVE B/L: SECTION DUE N&amp;S. PA

DIST	+	H.I.	-	ELEV
S-0+05		15.46	12.6	2.9
0+00			12.0	3.5
N-0+29			8.4	7.1
N-0+68			5.0	10.5
N-1+00			4.4	11.1

12.09
3.89
15.98

TOP OF BRASS BUTTON IN CONC MON. MKD. CITY B.M. STATE

15.98
4.60
11.38
4.08
15.96

179 5960

99 1716

85° 12' 49"



STA-W-80+00

0+00 = STA-W-80+00 DE-ANZA COVE B/L: SECT. DUE N E S.

DIST	+	H.I.	-	ELEY	P.X.
S-0+28		15.46	12.5	3.0	
0+00			8.7	6.8	
N-0+16			6.6	8.9	
N-0+36			4.7	10.8	
N-1+00			4.6	10.9	

STA-81+00-W

0+00 = STA-W-81+00 DE-ANZA COVE B/L: SECT. DUE N E S

DIST	+	H.I.	-	ELEY	P.X.
S-0+34			12.5	3.0	
S-0+17		15.46	9.9	5.8	
0+00			7.0	8.5	
N-0+21			4.3	11.2	
N-0+70			4.5	11.0	
N-1+00			4.7	10.8	

STA-82+00

7-14-18

(23)

0+00 = STA-82+00 DE-ANZA COVE B/L: SECT. DUE N E S

DIST	+	H.I.	-	ELEY	P.X.
S-0+29		15.46	12.5	3.0	
S-0+12			9.3	6.5	
0+00			7.1	8.4	
N-0+20			4.7	10.8	
N-0+38			4.8	10.7	

STA-83+00

0+00 = STA-W-83+00 DE-ANZA COVE B/L: SECT. DUE N E S

DIST	+	H.I.	-	ELEY	P.X.
S-0+30		15.46	12.5	3.0	
S-0+15			9.9	5.6	
0+00			7.4	8.1	
N-0+21			4.9	10.6	
N-0+30			4.9	10.6	
T.P.			6.50	8.96	

TOP OF STAKE  
STA-W-83+00

15.46  
8.96  
6.50

15.46  
6.50  
8.96



STA-84+00W

0+00=STA-W-84+00 DE-ANZA COVE B/L: SECT. DUE N.E.S

DIST	+	H.I.	-	ELEV	P.X.
T.P.	5.05	14.01		8.96	W-83+00
S-0+31			11.0	3.0	8.3- 5.05 14.01
S-0+13			8.3	5.7	
0+00			6.0	8.0	
N-0+19			3.4	10.6	
N-0+33			3.6	10.4	
N-					

STA-85+00

0+00=STA-85+00W DE-ANZA COVE B/L: SECT. DUE N.E.S

DIST	+	H.I.	-	ELEV	P.X.
S 0+27		14.01	10.9	3.1	
S-0+12			8.5	5.5	
0+00			6.3	7.7	
N-0+21			3.4 <del>8.5</del>	10.6	
N-0+57			3.7 3.4	10.3	

STA-86+00

(24)

0+00=STA-W-86+00 DE-ANZA COVE B/L: SECT. DUE N.E.S

DIST	+	H.I.	-	ELEV	P.X.
S-0+26		14.01	10.9	3.1	
S-0+12			8.5	5.5	
0+00			6.3	7.7	
N-0+07			5.1	8.9	
N-0+18			3.6	10.4	
N-0+28			4.0	10.0	

STA-87+00

0+00=STA-W-87+00 DE-ANZA B/L: SECT. DUE N.E.S

DIST	+	H.I.	-	ELEV	P.X.
S-0+25		14.01	10.9	3.1	
S-0+11			8.4	5.6	
0+00			6.6	7.4	
N-0+07			5.3	8.7	
N-0+18			3.9	10.1	
N-0+25			4.0	10.0	



STA-88+00

STA-90+00

0+00=STA-W-88+00 DE-ANZA B/LI. SECT. DUE N. & S.

0+00=STA-W-90+00 DE-ANZA COVE B/LI. SECT. DUE N. & S.

DIST	+	H.I.	-	ELEV	P.X.
S 0+26		14.01	10.9	3.1	
			8.3		
S-0+14			<del>10.9</del>	5.7	
0+00			6.3	7.7	
			5.4		
N-0+14			<del>8.6</del>	8.6	
N-0+19			4.3	9.7	
T.P.			5.09	8.92	

DIST	+	H.I.	-	ELEV	P.X.
S-0+25		14.22	10.9	3.3	
S-0+12			8.2	6.0	
0+00			6.3	7.9	
			5.1		
N-0+12			<del>8.2</del>	9.1	
			3.5		
N-0+25			<del>10.9</del>	10.7	
			3.3		
N-0+11			<del>5.1</del>	10.9	
N-0+87			3.5	10.7	

STA-89+00

T.P.

0+00=STA-89+00 DE-ANZA COVE B/LI. SECT. DUE N. & S.

DIST	+	H.I.	-	ELEV	P.X.
T.P.	5.30	14.22		8.92	
S-0+25			10.9	3.3	
S-0+11			8.2	6.0	
0+00			6.5	7.7	
N-0+08			5.2	9.0	
N-0+21			3.9	10.3	
N-0+29			4.0	10.2	

STA-91+00

0+00=STA-W-91+00 DE-ANZA COVE B/LI. SECT. DUE N. & S.

DIST	+	H.I.	-	ELEV	P.X.
T.P.	5.11	13.15		8.04	
S-0+25				9.1	4.0
S-0+09				6.5	6.6
0+00				1.6	9.5
N-0+09				3.2	9.9
N-0+18				2.0	11.1
N-0+24				2.0	11.1

W-90+00  
 14.22  
 5.15  
 8.09  
 5.11  
 13.15



STA- 92+00 W

CHECK LEVELS BACK TO "STATE"

0+00 = STA-W-92+00 DE-ANZA COVE B/L:

DIST	+	H.I.	-	ELEV	P.X.
S-0+28		13.15	9.0	4.1	
S-0+12			6.7	6.5	
0+00			5.1	8.0	
N-0+12			3.5	9.6	
N-0+28			1.9	11.2	
N-0+35			1.7	11.5	

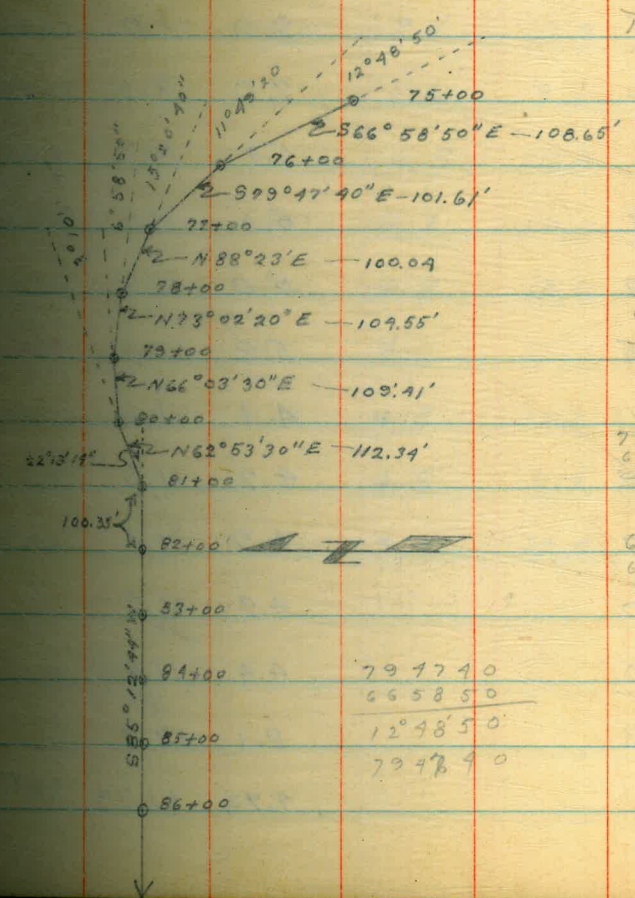
STA-	+	H.I.	-	ELEV
				13.15
T.P.	5.18	13.12	4.91	8.24
T.P.	5.71	14.65	4.48	8.94
T.P.	5.45	16.80	3.30	11.35
			1.72	12.08

W-89+00  
 8.24  
 5.18  
 13.42  
 4.98  
 8.94  
 5.71  
 14.65  
 3.30  
 11.35  
 5.95  
 16.80

STA-W-93+00

0+00 = STA-W-93+00 DE-ANZA COVE B/L:

DIST	+	H.I.	-	ELEV	P.X.
S-0+93		13.15	9.1	4.0	
S-0+46			7.6	5.5	
S-0+19			6.6	6.5	
0+00			5.0	8.1	
N-0+11			4.3	8.8	
N-0+25			3.4	9.7	
N-0+38			1.9	11.2	
N-0+44			2.1	11.0	
T.B.M			4.21	8.94	



89.20  
 8.24  
 1.37  
 89.5960  
 79.4740  
 10.1220  
 1.93  
 1.2200  
 88.2300  
 73.0220  
 15.2040  
 73.0200  
 66.6370  
 6.3830  
 66° 03' 30  
 62.5330  
 3° 10' 00

2x2 100' S  
 93+00



7-15-46

(27)

Sta 78+00

0+00 = STA 78+00 W DE ANZA COVE B/L:

PX

Dist	+ H.I.	-	Elev	
4.70	16.05		11.35	T.P. 31.8.22
S. 0+77		12.9	3.1	
S. 0+61		10.9	5.1	
S. 0+45		9.0	7.0	
S. 0+26		7.0	9.0	
0+0		5.1	10.9	
N. 0+41		5.0	11.0	
N. 0+92		5.0	11.0	
N. 1+25		5.2	10.8	
N. 2+50		4.4	11.6	
N. 3+02		4.7	11.3	
N. 3+87		4.9	11.1	
N. 4+30		4.7	11.3	
N. 4+70		4.4	11.6	
N. 5+13		2.1	12.9	
		9.72	11.33	T.P.#1

Sta. 77+00

0+00 = STA W-77+00 DE ANZA COVE B/L:

16.80

(2.09)

7.7)

Dist	+ H.I.	-	Elev	
4.42	15.75		11.33	T.P.#1 31.8.22
S. 0+75		12.70	3.0	P.X
S. 0+60		11.60	4.1	
S. 0+42		8.4	7.3	
S. 0+21		6.6	9.1	
0+00		4.9	10.8	
N. 0+55		4.7	10.0	
N. 1+08		4.8	10.9	
N. 1+95		4.6	11.1	
N. 2+72		4.5	11.2	
N. 3+39		4.5	11.2	
N. 4+05		2.3	13.1	



STA. 76+00

0+00 = STA W 76+00 DEANZA COVE 3/4.

DIST	+	H.I.	-	ELEV	T.P.
	4.28	15.61		11.33	T.P.#1
S 0+80			12.8	2.8	P.X.
S 0+63			10.9	4.7	
S 0+46			8.8	6.8	
S 0+29			6.5	9.1	
0+00			4.8	10.8	
N. 0+149			4.6	11.1	
N. 1+05			4.9	10.7	
N. 1+65			4.8	10.8	
N. 2+10			4.4	11.2	
N. 2+50			4.4	11.2	
N. 3+05			3.5	12.1	
N. 3+30			2.1	13.5	

1562

1135

1137

(28)

Sta. 75+00

0+00 = STA W-75+00 DEANZA COVE 3/4.

	+	H.I.	-	Elev.
	4.29	15.62		11.33
S 0+96			12.7	2.9
S 0+71			10.6	5.0
S 0+51			8.7	6.9
S 0+30			6.8	8.8
0+00			5.0	10.6
N. 0+65			5.1	10.5
N. 0+45			5.1	10.5
N. 1+75			4.5	11.1
N. 2+30			4.0	11.6
N. 2+65			3.0	12.6
T.B.M			3.51	12.11
CHECK				
T.P.			4.27	11.33

T.P.#1  
LATH BETWEEN  
J-1 & J-2

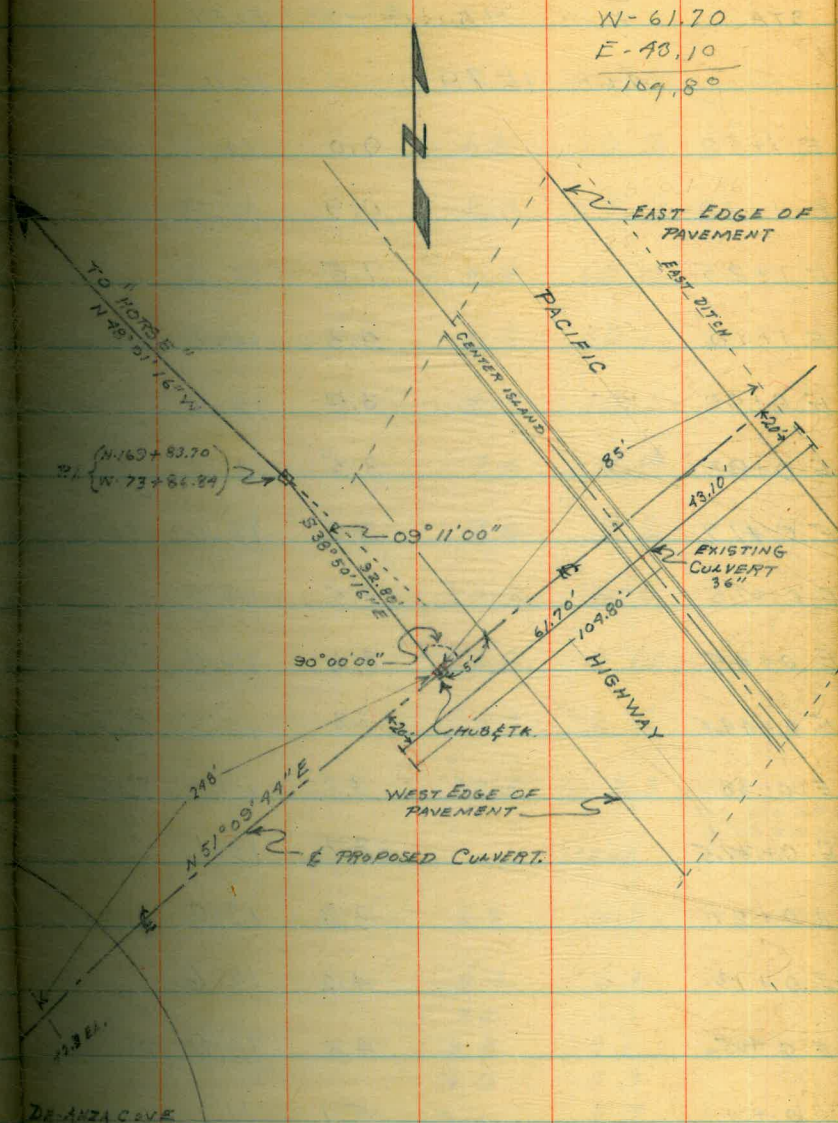
P.X.

4" X 4" N/W  
OF ROAD  
ACROSS FILL  
LATH BETWEEN  
J-1 & J-2



LOCATION OF PROPOSED CULVERT  
ACROSS PACIFIC HIGHWAY

STATION	OBJECT	ANGLE	DIST
	"HORSE"	$1.09^{\circ} 11' 00''$	
P.I. (N169+83.70) (W73+86.84)	DEF RT.	$2.18^{\circ} 22' 00''$	92.80'
	2" X 2" HUB & TACK = E OF CULVERT	AV. $= 09^{\circ} 11' 00''$	
	(N169+83.70) P.I. (W73+86.84)	$1.90^{\circ} 00' 00''$	
	2 X 2 HUB & TACK E OF PROPOSED CULVERT	R $2.180 00' 00''$	
	E OF PROPOSED CULVERT	AV. $90^{\circ} 00' 00''$	



W-61.70  
E-48.10  
109.80



7-15-18

BARRAGAN  
SHEPPY  
STANLEY

7-15-18

(30)

PROFILE ALONG  $\frac{1}{2}$  OF PROPOSED CULVERT ACROSS  
PACIFIC HIGHWAY0+00 = 2x2" Hub - 92.80' - S 38° 50' 16" E OF Pt.  $\begin{cases} N 163+83.70 \\ W 73+86.84 \end{cases}$ 

## Profile for Culvert

STA	+	H.I.	-	ELEV		H.I.	-	Elev
	4.68	16.79		12.11		16.79		
					0+11		5.2	11.6
E-1+52			0.0	16.8	W 0+38		6.6	10.2
E 1+38			0.9	15.9	W 0+70		6.9	9.9
E 1+25			1.5	15.3	W 0+95		6.8	10.0
E 1+10			2.3	14.5	W 1+20		6.7	10.1
E 0+98			3.2	13.6	W 1+50		6.7	10.1
E 0+83			3.5	13.3	W 1+65		7.4	9.4
E 0+77			3.2	13.6	W 1+85		8.6	8.2
E 0+55			3.5	13.3	W 2+05		10.3	6.5
E 0+45			3.6	13.2	W 2+25		12.2	4.6
E 0+44.5			3.3	13.5	W 2+36		13.3	3.5
E 0+38			3.3	13.5	W 2+48		14.5	2.3
E 0+37.5			3.7	13.1	T.B.M.	0.21	12.32	12.11
E 0+27			3.8	13.0	W 2+00		5.4	6.9
E 0+13			4.2	12.6	W 2+10		6.2	6.1
E 0+05			4.8	12.0	West End Pavement		7.2	5.1
							8.2	4.1
							9.0	3.3
0+00			5.1	11.7	W 2+50		9.9	2.4
					W 2+58		11.5	0.8
					W 2+59		11.7	0.6

P.X.

4x4" NW of  
ROAD ACROSS  
FILLBOTTOM OF  
DITCH EAST  
OF HIGHWAY  
East Sideof Proposed  
hBottom of  
Center Island  
CulvertTop of East  
End Center IslandTop of East  
West Center IslandBottom of  
West End Center Island4x4" NW of  
ROAD ACROSS  
FILL



7-15-48

7-15-18

(31)

## FINAL X-SECTIONS OF SLOPES DE-ANZA COVE

(SEE F.B. # 22 PAGE # 71)

Sta N. 166+00

STA - N-167+00

0+00 = Sta N. 166+00 DE-ANZA COVE B/L: SECT. DUE E. &amp; W.

0+00 = STA - N-167+00 DE-ANZA COVE B/L: SECT. DUE E &amp; W.

DIST	+	H.I.	-	ELEV
	1.38	13.49		12.11
W-0+83			11.3	2.3
W-0+54			9.4	4.1
W-0+41			7.8	5.7
W-0+25			6.8	6.7
0+00			4.9	8.6
E-0+25			3.4	10.1
E-0+61			3.5	10.0
E-0+80			3.4	10.1

4"x4" N/W  
OF ROAD AREA  
FILL W/O P.X.

P.X.

DIST	+	H.I.	-	ELEV
W-0+37		13.49	9.0	4.5
W-0+24			7.8	5.7
W-0+11			6.6	6.9
0+00			5.6	7.9
E-0+10			4.6	8.9
E-0+25			3.7	9.8
E-0			-9.1	

P.X.

STA - N. 165+00

7-22-48

0+00 = STA - N. 165+00 DE-ANZA COVE B/L: SECT. DUE E. &amp; W.

T.B.M	5.30	13.58	8.28	6.34
N-167+00				
W-0+83			11.3	2.3
N-165+00				
W-0+68			11.0	2.6
N-164+00				
W-0+58			10.9	2.7
N-163+00				
W-0+57			10.8	2.8

2"x1" BFT-10

DIST	+	H.I.	-	ELEV
W-0+68			10.9	2.6
W-0+41		13.49	9.1	4.4
W-0+26			7.8	5.7
W-0+13			6.6	6.9
0+00			5.6	7.9
E-0+13			4.1	9.4
E-0+24			3.0	10.5
E-0+44			3.5	10.0

P.X.



7-15-48

7-16-48

(32)

STA-N-164+00

STA-162+00-N

STA	+	H.I.	-	FLEY
0+00	= STA-N-164+00 DE ANZA COVE B/LI. SECT. DUE E. & W.			
W-0+58			10.8	2.7
W-0+35		13.49	9.0	4.5
W-0+24			7.9	5.6
W-0+12			6.6	6.9
0+00			5.6	7.9
E-0+13			4.3	9.2
E-0+24			3.0	10.5
E-0+47			3.5	10.0

STA	+	H.I.	-	FLEY
0+00	= STA-N-162+00 DE ANZA COVE B/LI. SECT. DUE E. & W.			
DIST	+			
T.B.M		5.18	13.46	8.28
W-0+56			10.6	2.9
W-0+43			9.5	4.0
W-0+36			8.1	5.4
W-0+12			6.5	7.0
E-0+00			5.4	8.1
E-0+10			4.4	9.1
E-0+23			3.7	9.8

P.X.

DIST

+

H.I.

-

ELEY

2 x 4 35' DOWN  
SLOPE W/STA  
N-163+00

8.28  
5.18  
13.46

P.X.

STA-N-163+00

STA-N-161+00

STA	+	H.I.	-	FLEY
0+00	= STA-N-163+00 DE ANZA COVE B/LI. SECT. DUE E. & W.			
DIST	+			
W-0+57			10.7	2.8
W-0+32		13.49	8.9	4.6
W-0+19			7.7	5.8
W-0+09			6.3	7.2
0+00			5.6	7.9
E-0+10			4.7	8.8
E-0+21			3.4	10.1
E T.B.M			5.21	8.28

E

FLEY

STA	+	H.I.	-	FLEY
0+00	= STA-N-161+00 DE ANZA COVE B/LI. SECT. DUE E. & W.			
DIST	+			
W-0+59		13.46	10.6	2.9
W-0+40			8.9	4.6
W-0+19			7.4	6.1
0+00			5.8	7.7
E-0+13			4.8	8.7
E-0+25			3.8	9.9
E-0+35			3.7	9.8

TOP 2x4  
35' DOWN  
BETWEEN  
N-163+00 &  
N-162+00

P.X.



## STA-N-160+00

## STA-N-158+00

0+00=STA-N-160+00 DE ANZA COVE B/L. SECT. DUE E. &amp; W.

0+00=STA-N-158+00 DE ANZA COVE B/L.

DIST	+	H.I.	-	ELEV	
W-0+54		13.46	10.5	3.0	P.X.
W-0+37			3.0	4.5	
W-0+18			2.7	5.8	
0+00			5.9	7.6	
E-0+11			4.9	8.6	
E-0+20			4.3	9.2	
E-0+29			3.7	9.8	
E.					

DIST	+	H.I.	-	ELEV	
T.P.		5.16	12.32	7.16	T.P.
W-0+40			3.2	3.1	P.X.
W-0+23			8.4	3.9	
W-0+11			7.3	5.0	
0+00			5.7	6.6	
E-0+12			4.9	7.1	
E-0+18			3.7	8.6	
E-0+33			3.6	8.7	

## STA-N-159+00

## STA-N-157+00

0+00=STA-N-159+00 DE ANZA COVE B/L. SECT DUE E. &amp; W.

0+00=STA-N-157+00 DE ANZA COVE B/L.

DIST	+	H.I.	-	ELEV	
W-0+41		13.46	10.6	2.9	P.X.
W-0+27			3.5	4.0	
W-0+15			8.1	5.4	
0+00			6.4	7.1	
E-0+12			5.0	8.5	
E-0+21			4.0	9.5	
E-0+25			3.8	9.7	
T.P.			6.30	7.16	T.P.

DIST	+	H.I.	-	ELEV	
W-0+43		12.32	3.2	3.1	P.X.
W-0+36			8.0	4.3	
W-0+25			7.4	4.9	
0+00			6.7	5.6	
E-0+07			-5.6	6.2	
E-0+17			4.6	7.7	
E-0+26			3.6	8.7	
E-0+36			2.7	9.6	
E-0+54			2.7	10.0	



7-16-18

(39)

STA-N-156+00

STA-N-154+00

0+00=STA-N-156+00 DE-ANZA COVE B/L: SECT DUE E. &amp; W.

0+00=STA-N-154+00 DE-ANZA COVE B/L: SECT DUE E. &amp; W.

DIST + H.I. - ELEV

DIST + H.I. - ELEV

W.0+34 12.32 9.1 3.2 P.X.

W.0+52 12.32 9.1 3.2 P.X.

W.0+17 8.3 4.0

W.0+35 8.0 4.3

W.0+00 2.3 5.0

W.0+17 6.8 5.5

E.0+14 5.8 6.5

E.0+00 4.8 7.5

E.0+26 4.3 8.0

E.0+16 4.0 8.3

E.0+40 3.3 9.0

E.0+36 4.0 8.3

E.0+56 3.3 9.0

E.0+62 3.0 8.7

E.0+79 2.4 9.9

STA-N-155+00

STA-N-153+00

0+00=STA-155+00 DE-ANZA COVE B/L: SECT DUE E. &amp; W.

0+00=STA-N-153+00 DE-ANZA COVE B/L: SECT DUE E. &amp; W.

DIST + H.I. - ELEV

DIST + H.I. - ELEV

W.0+27 12.32 9.1 3.2 P.X.

W.0+00 12.32 7.9 1.4 P.X.

W.0+13 7.9 4.4

W.0+63 7.2 5.1

0+00 6.8 5.5

W.0+37 5.5 6.8

E.0+08 5.9 6.4

W.0+20 3.7 8.6

E.0+19 4.6 7.7

E.0+00 3.5 8.8

E.0+35 4.0 8.3

E.0+16 2.5 9.8

E.0+49 2.5 9.8

E.0+79 2.4 9.9

T.B.M. 1.81 10.51

TOP OF FILL  
GRADE STAKE2x2 E/OF  
STA-153+00



STA-152+00 N

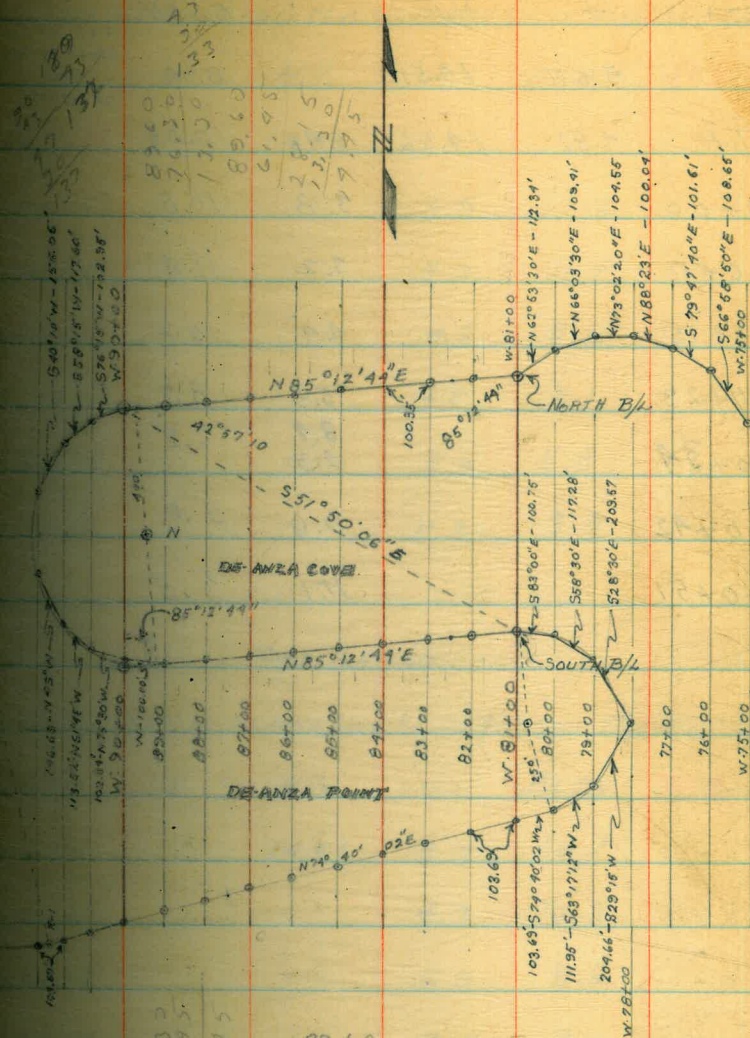
BASE LINE FOR X-SECTIONS OF SLOPES  
DE-ANZA COVE - PROJ. #3-1

0+00 = STA. N152+00 DE-ANZA COVE B/L; SECT. DUE E. F.W.

DIST	+	H.I.	-	ELEV	
T.P.	4.51	15.02		10.51	212 1/31 153+00
W. 1+26			10.7	4.3	P.X
W. 0+83			10.2	4.8	
W. 0+47			9.5	5.5	
W. 0+20			6.9	8.1	
0+00			4.7	10.3	
E. 0+50			4.7	10.3	
E. 1+45			4.6	10.1	
E. 2+05			4.8	10.2	
E. 2+50			4.7	10.3	
E. 2+85			4.3	10.7	
E. 3+12			3.7	11.3	
E. 3+35			1.9	13.1	HIGHWAY
-CHECK-				12.58	STA-N152+00
T.B.M.			2.48	12.54	

PROFILE ALONG B/L (S3°45'16"E); 0+00 = STA. N152+00;

0+00	4.7	10.3	P.X
S. 0+15	5.5	9.5	
S. 0+30	7.0	8.0	
S. 0+47	8.9	6.1	
S. 0+75	9.9	5.1	
S. 0+28	10.3	4.7	



76	77.5	89.60	61.95	
61	79.5	85.12	43.00	
19.95		1.98	18.95	
				89.5960
				85.1279
				4.4716
				7
				11.97°16



0+00=STA-W-90+00 DE ANZA COVE SOUTH 1/4: SECT. DUE N.E.S.

STA-W-89+00

0+00=STA-W-89+00 DE ANZA COVE SOUTH 1/4: SECT. DUE N.E.S.

STA	+	H.I.	-	ELEV
	5.57	14.51		8.94
T.P.	4.51	14.56	4.96	10.05
0+00			3.8	10.8
N-0+11			3.2	11.1
N-0+15			4.4	10.2
N-0+23			5.9	8.7
N-0+24			8.1 <del>7.9</del>	6.2
N-0+42			9.6	5.0
N-0+51			11.1	3.5

2 x 2 100' S/S  
93+00 DE ANZA  
B/L  
20' N/90+99  
4.51  
14.56

P.X.

DIST	+	H.I.	-	ELEV	P.X.
		14.56			
0+35			3.4	11.2	
0+00			3.2	11.1	
N-0+07			4.8	9.8	
N-0+16			6.5	8.1	
N-0+28			8.8	5.8	
N-0+42			11.2	3.4	

STA-88+00

0+00=STA-W-88+00 DE ANZA COVE SOUTH 1/4: SECT. DUE N.E.S.

DIST	+	H.I.	-	ELEV	P.X.
0+00		14.56	3.9	10.7	
N-0+05			4.3	10.3	
N-0+16			6.0	8.6	
N-0+24			7.6	7.0	
N-0+31			9.0	5.6	
N-0+45			11.4	3.2	



STA-87+00

STA-85+00.W

0+00=STA-W-87+00 DE ANZA COVE SOUTH 1/4; SECT. DUE N. E S.

0+00=STA-W-85+00 DE ANZA COVE SOUTH 1/4; SECT DUE N. E S.

DIST	+	H.I.	-	ELEV	P.X.
0+00		14.56	4.2	10.4	
N.0+05			4.6	10.0	
N.0+ <sup>14</sup> 0			5.9	8.7	
N.0+20			7.3	7.3	
N.0+30			8.8	5.8	
N.0+46			11.4	3.2	

DIST	+	H.I.	-	ELEV	P.X.
0+00		14.56	4.5	10.1	
N.0+07			4.8	9.8	
N.0+18			6.3	8.3	
N.0+30			7.7	6.9	
N.0+42			9.5	5.1	
N.0+57			11.6	3.0	
T.P.			5.75	8.81	

10' N/OF STA-  
87+00 (1"X2")

STA-W-86+00

STA-89+00.W

0+00=STA-W-86+00 DE ANZA COVE SOUTH 1/4; SECT DUE N. E S.

0+00=STA-W-89+00 DE ANZA COVE 1/4 (SOUTH); SECT. DUE N. E S.

DIST	+	H.I.	-	ELEV	P.X.
0+00		14.56	4.1	10.5	
N.0+05			4.7	9.9	
N.0+15			5.8	8.8	
N.0+26			7.3	7.3	
N.0+38			9.3	5.3	
N.0+51			11.4	3.2	

DIST	+	H.I.	-	ELEV	P.X.
T.P.		6.72	15.53	8.81	
0+00			5.7	9.8	
N.0+05			6.1	9.4	
N.0+17			6.9	8.6	
N.0+27			8.1	7.4	
N.0+40			9.7	5.8	
N.0+58			12.5	3.0	

10' N/OF STA-  
W-89+00 (1"X2")8.81  
6.72  
15.53



STA-W-83+00

STA-W-84+00

0+00=STA-W-83+00 DE ANZA COVE SOUTH 1/4 : SECT. DUE N.E.S.

0+00=STA-W-84+00 DE ANZA COVE SOUTH 1/4 : SECT. DUE N.E.S.

DIST + H.I. - ELEV

DIST + H.I. - ELEV

0+00 15.53 5.0 10.5 P.X.

0+00 15.53 4.8 10.7 P.X.

N.0+05 5.6 9.9

N.0+06 5.1 10.9

N.0+14 6.6 8.9

N.0+16 5.8 9.7

N.0+26 7.9 7.6

N.0+27 2.0 8.5

N.0+38 9.5 6.0

N.0+41 8.7 6.8

N.0+60 12.5 3.0

N.0+55 10.5 5.0

N.0+68 12.5 3.0

STA-W-82+00

T.B.M

0+00=STA-W-82+00 DE ANZA COVE SOUTH 1/4 : SECT. DUE N.E.S.

T.P 4.75 14.35 5.93 9.60

DIST + H.I. - ELEV

T.P 4.03 14.07 4.31 10.04

0+00 15.53 5.5 10.0 P.X.

CHECK 5.14 8.93

N.0+06 5.7 9.8

N.0+18 6.4 9.1

N.0+27 7.6 7.9

N.0+39 8.9 6.6

N.0+49 10.2 5.3

N.0+65 12.7 2.8

15.53  
4.20  
11.33  
2x2' ON TIP  
OF

DE ANZA POINT

4.75  
14.35  
4.91  
10.04  
3.03  
17.072x2' 100' 5/8" 1/4  
8.94  
8.93  
DE ANZA POINT



PROFILE ALONG  $\phi$  OF PROPOSED CULVERT

ACROSS PACIFIC HIGHWAY - (SEE PAGE 29 THIS BOOK)

STA	+	H.I.	-	ELEV	
T.B.M	4.94	17.05		12.11	TOP OF 4"x4" N/W OF ROAD ACROSS FILL - (W/O P.I.)
0+00			5.37	11.68	TOP OF HUB - FLUSH WITH GROUND
E-0+04.5			5.15	11.90	WEST EDGE OF PAVED SHOULDER
E-0+08			4.65	12.40	BREAK IN SHOULDER
E 0+14			4.45	12.60	W/EDGE OF HIGHWAY
E 0+27			4.04	13.01	STRIP BETWEEN SOUTH BOUND LANES
E 0+38.9			4.00	13.05	BOTTOM W/EDGE CENTER ISLAND CURB
E 0+39.3			3.58	13.47	T.O.P " " " "
E 0+42			3.48	13.57	CENTER OF CENTER ISLAND
E-0+49.7			3.55	13.50	TOP E/EDGE CENTER ISLAND CURB
E-0+45.1			3.85	13.20	BOTTOM " " " "
E 0+57			3.80	13.25	STRIP BETWEEN NORTH BOUND LANES
E 0+68			3.71	13.34	E/EDGE OF HIGHWAY
E 0+77.5			3.42	13.63	W/EDGE OF PAVED SHOULDER
E 0+78.5			3.50	13.55	W/EDGE OF DITCH
E 0+81.0			4.01	13.04	BOTTOM OF EAST DITCH
E 0+90			3.70	13.35	BOTTOM OF WEST DITCH
B.M	4.94			12.11	CHECK

12  
19  
28  
13

68  
29  
54



7-22-98

(70)

## FINAL X-SECTIONS OF SLOPES

DE-ANZA COVE - PROJ. # 3-1

PX

(SEE PAGE 35 FOR B/L.)

STA-91+00

0+00=STA-

DE-ANZA COVE <sup>N</sup>SOUTH B/L: SECT. DUE N. E S.

STA-92+00

PX

0+00=STA-92+00 DE-ANZA COVE "SOUTH" B/L: SECT. DUE N. E S.

DIST + H.I. - ELEV

0+00 14.51 3.6 10.9

S.0+40 3.8 10.7

N.0+05 3.6 10.9

N.0+22 5.9 8.6

N.0+39 8.6 5.9

N.0+60 11.8 2.7

DIST + H.I. - ELEV

T.B.M. 4.46 14.51 10.05

0+00 3.6 10.9

S.0+48 4.2 10.3

N.0+13 5.2 9.3

N.0+28 8.2 6.3

N.0+50 12.0 2.5

1x3' 24" H  
90+00



STA-W-93700

~~0+00~~ = STA-W-93700 DEANZA COVE <sup>(SOUTH)</sup> 3/4 SECT DUE N. & S.

DIST	+	H.I.	-	ELEV
0+00		14.51	3.2	11.3
S.0+67			3.6	10.9
N.0+03			3.2	11.3
N.0+28			5.1	9.4
N.0+48			7.0	7.5
N.0+69			8.7	5.8
N.0+96			10.1	4.1
N.1+00			10.7	3.8
N.1+14			11.6	2.9
N.1+29			11.8	2.7

STA-80+00

(71)

DIST	+	H.I.	-	ELEV
	3.15	14.48		11.33
0+00			3.6	10.9
30+38			4.2	10.3
50+69			4.5	10.0
N.0+05			3.6	10.9
N.0+23			5.9	8.6
N.0+37			7.6	6.9
N.0+57			9.9	4.6
N.0+70			11.5	3.0
N.0+				

2x2 10' DWN.  
SLOPE BETWEEN  
F-4 & F-5



STA-W-79+00

0+00 = STA-W-79+00 DE ANZA COVE "SOUTH" B/L: SECT N. F. S. FINAL X-SECTIONS OF SLOPES PROJ 3-1

DIST	+	H.I.	-	ELEV
0+00		14.98 <sup>5</sup>	4.1	10.4
N0+19		0.3 4.2	5.7	8.8
N.0+41			7.6	6.9
N.0+64			9.7	4.8
N.0+88			11.4	3.1
S.0+25			9.1	10.4
S.0+50			4.2	10.3
S.0+75			4.2	—
S.0+100			4.4	10.1
S.1+25			4.5	10.0
S.1+50			4.6	9.9
S.1+75			4.8	9.7
S.2+00			4.8	—
T.B.M			4.34	10.14

T.P. 21/20  
MHEB. F-1

STA-W-105+00

0+00 = STA-W-105+00 DE ANZA B/L: SECTION DUE SOUTH.

DIST	+	H.I.	-	ELEV
T.B.M		6.60	14.42	7.82
0+00			6.6	7.8
0+17			6.7	7.7
0+24			5.6	8.8
0+30			4.1	10.3
0+49			4.3	10.1
0+80			4.6	9.8
1+00			4.9	9.5
1+33			5.3	9.1
1+66			6.2	8.2
2+00			6.9	7.5
2+14			7.4	7.0
3+00			7.6	6.8
T.P			4.35	10.07

STA-W-105+00  
DE ANZA B/LT.P.#0 13' EAST  
STA-104+00  
TOP OF SLOPE



0+00 = STA-W-109+00 DE ANZA COVE B/L: SECT. N. &amp; S.

DIST	+	H.I.	-	ELEV
T.B.M	4.28	14.35 <sup>4</sup>		10.07
0+00			5.1	9.3
N.0+22			4.7	9.7
N.0+43			4.3	10.1
N.0+63			4.2	10.2
N.0+72			4.5	9.9
N.1+00			5.0	9.4
N.1+93			4.7	9.7
N.2+00			5.0	9.4
S.0+17			5.7	8.7
S.0+51			6.4	8.0
S.0+79			7.4	7.0
S.1+00			7.6	6.8

STA-103+00

0+00 = W-103+00 DE ANZA COVE B/L: SECT. N. &amp; S.

DIST	+	H.I.	-	ELEV
T.B.M	4.95	15.02		10.07
T.B.M #2	1.07	14.71	4.38	10.64
0+00			4.9	9.8
N.0+29			4.3	10.4
N.0+63			4.3	10.4
N.1+00			4.6	10.1
N.2+00			4.9	9.8
N.3+00			5.2	9.5
N.4+00			5.4	9.3
S.0+23			5.6	9.1
S.0+53			6.0	8.7
S.0+90			7.2	7.5
S.1+00			7.6	7.1
S.1+31			9.1	5.3

13' EAST  
 STA-109+00  
 TOP OF SLOPE  
 100' SOUTH  
 STA-103+00  
 TOP OF SLOPE

15.02  
 7.38  
 10.64  
 7.07  
 14.71



8-3-98

(99)

STA-W-102+00

STA-W-101+00

0+00 = STA-W-102+00 DE ANZA COVE B/LI. SECT. N.E.S.

0+00 = STA-W-101+00 DE ANZA COVE B/LI. SECT. N.E.S.

DIST + H.I. - ELEV

DIST + H.I. - ELEV

14.71

T.B.M. #③ 4.39 14.74 10.35

T.B.M. #③  
EAST STA-101+00  
2x2  
TOP OF SLOP

0+00

1.8 9.9

0+00

1.8 9.9

N.0+31

5.2 9.5

N.0+43

5.1 9.6

10.35  
4.39  
14.74

N.0+41

5.2 9.5

N.1+00

5.1 9.6

S.0+14

5.1 9.6

S.0+09

5.3 9.4

S.0+40

6.3 8.4

S.0+26

7.0 7.7

S.0+64

8.0 6.7

S.0+47

9.2 5.5

S.0+93

9.4 5.3

S.0+61

10.5 4.2

#③  
T.B.M

4.36 10.35



STA-W.100+00

STA-99+0.0

PX  
0+00= STA-W.100+00 DE ANZA COVE R/L; SECT. N.F.S.

0+00= STA-W-99+00 DE ANZA COVE R/L; SECT. N.F.S.

DIST + H.I. - ELEV

DIST + H.I. - ELEV

T.B.M. #4  
EAST STA-99+00  
2x2  
TOP OF SLOPE

0+00 14.74 4.8 9.9

TUM. #4 1.90 15.05 10.15

N.0+39 4.8 9.9

0+00 4.9 10.2

N.0+<sup>17</sup>00 4.8 9.9

N.0+14 5.1 10.0

S.0+09 6.0 8.7

S.0+10 5.0 10.1

S.0+19 7.7 7.0

S.0+15 7.6 7.5

S.0+32 9.5 5.2

S.0+28 9.8 5.3

S.0+43 10.3 4.4

S.0+35 10.7 4.4

T.B.M. #4 4.59 10.15

T.B.M. #4  
EAST STA-99+00  
2x2  
TOP OF SLOPE



PX

STA-98+00

0+00 = STA-W-98+00 DE ANZA COVE B/L: SECT. N. &amp; S.

DIST	+	H.I.	-	ELEV	
T.B.M. #A	5.00	15.15 <sup>2</sup>		10.15	T.B.M. #A EAST 35' 00" OR 2' TOP OF SIGN
0+00			5.0	10.2	10.15 5.00 15.15
N.0+28			5.2	10.0	
N.0+58			5.4	9.8	
S.0+06			5.1	10.1	
S.0+14			6.6	8.6	
S.0+31			9.2	6.0	
S.0+50			10.8	4.4	

STA-97+00

0+00 = STA-W-97+00 DE ANZA COVE B/L: SECT. N. &amp; S.

DIST	+	H.I.	-	ELEV	
0+00		15.15 <sup>2</sup>	5.0	10.2	
N.0+34			5.3	9.9	
N.0+77			5.3	9.9	
S.0+06			5.3	9.9	
S.0+14			6.7	8.5	
S.0+28			8.7	6.5	
S.0+42			10.8	4.4	



8-3-48

(47)

STA-96+00

STA-W-95+00

0+00 = STA-W-96+00 DE-ANZA CREEK/L.

0+00 = STA-W-95+00 DE-ANZA CREEK R/A: SECT. N. &amp; S.

DIST + H.I. - ELEV

DIST + H.I. - ELEV

0+00 15.15<sup>2</sup> 5.0 10.2

T.B.M #5 3.84 14.29 10.40

N.0+33 5.0 10.2

0+00 4.0 10.2

N.0+1+00 5.1 10.1

N.0+50 4.1 10.1

S.0+05 5.1 10.1

N.1+00 4.3 9.9

S.0+15 6.5 8.7

S.0+05 4.3 9.9

S.0+27 8.9 6.8

S.0+18 6.1 8.1

S.0+49 11.0 4.2

S.0+35 8.3 5.9

T.B.M #5 4.75 10.40

S.0+61 10.5 3.7

15.15  
4.75  
10.40  
T.B.M. #5  
15' EAST  
96+00 Top of Slope10.40  
3.84  
14.24

2.7



8-3-98

(98)

STA-94+00

STA-W-93+00

PX  
0+00=STA-W-94+00 DE-ANZA COVE B/L SECT. N. & S.

0+00=STA-W-93+00 DE-ANZA COVE (SOUTH) B/L SECT. N. &amp; S. PX

DIST + H.I. - ELEV

DIST + H.I. - ELEV

14.24

14.24

0+00

4.2 10.0

0+00

4.7 9.5

N.0+41

4.3 9.9

N.0+43

4.5 9.7

N.0+95

4.5 9.7

N.0+90

4.5 9.7

S.0+07

4.8 9.4

S.0+05

5.1 9.1

S.0+20

6.5 7.7

S.0+16

6.3 7.9

S.0+39

8.3 5.9

S.0+35

8.6 5.6

S.0+62

10.6 3.6

S.0+61

10.8 3.4



STA-W-92+00

STA-W-91+00

~~PX~~ 0+00 = STA-W-92+00 DE-ANZA COVE (SOUTH) B/L: SECT. N.E. S. 1/4  
 0+00 = STA-W-91+00 DE-ANZA COVE (SOUTH) B/L: SECT. N.E. S. 1/4 SOUTH

DIST	+	H.I.	-	ELEV
------	---	------	---	------

14.24

N.0+65

4.6 9.6

N.0+31

4.6 9.6

0+00

4.6 9.6

S.0+67

5.2 9.0

S.0+20

6.6 7.6

S.0+35

8.2 6.0

S.0+60

10.7 3.5

DIST	+	H.I.	-	ELEV
------	---	------	---	------

14.24

N.0+60

4.6 9.6

N.0+27

4.5 9.7

0+00

4.5 9.7

S.0+10

5.3 8.9

S.0+25

6.9 7.3

S.0+39

8.6 5.6

S.0+61

10.8 3.4



STA-W. 80+00

STA-W. 89+00

0+00 = STA-W. 80+00 DE ANZA COVE (SOUTH) B/L: SECT. N. &amp; S.

0+00 = STA-W. 89+00 DE ANZA COVE (SOUTH) B/L: SECT. N. &amp; S.

DIST	+	H.I.	-	ELEV
------	---	------	---	------

DIST	+	H.I.	-	ELEV
------	---	------	---	------

14.27

14.27

N. 0+68

4.7 9.5

0+00

4.7 9.5

N. 0+30

4.6 9.6

S. 0+11

5.3 8.9

0+00

4.6 9.6

S. 0+21

6.3 7.9

S. 0+08

5.2 9.0

S. 0+39

8.1 6.1

29

S. 0+39

6.6 7.6

S. 0+66

10.8 3.4

# 3

20'  
EAST STA-89+00  
2x2

S. 0+37

8.5 5.7

T.B.M.

4.60 9.61

TOP OF SLOPE

S. 0+62

10.7 3.5

STA-W. 89+00

0+00 =

DIST	+	H.I.	-	ELEV
------	---	------	---	------



PX STA-88400

STA-W-87400

0+00 = STA-W-88400 DE-ANZA COVE B/LI: SECT. N. &amp; S. (SOUTH)

0+00 = STA-W-87400 DE-ANZA COVE B/LI: SECT. N. &amp; S. PX

DIST	+	H.I.	-	ELEV
T.B.M. #6	4.77	14.41		9.64
N.0+12			4.8	9.6
0+00			4.9	9.5
S.0+08			5.1	9.3
S.0+22			6.3	8.1
S.0+37			7.6	6.8
S.0+52			9.4	5.0
S.0+71			11.0	3.4

DIST	+	H.I.	-	ELEV
				14.41
N.0+51			4.4	10.0
0+00			4.2	10.2
S.0+08			5.0	9.4
S.0+23			6.5	7.9
S.0+41			8.7	5.7
S.0+72			11.1	3.3

0+00 = STA-

DIST	+	H.I.	-	ELEV
				4.8



Px

STA-86+00

0+00=STA-86+00 DE-ANZA COVE 1/4 L. SECT. N. &amp; S.

DIST + H.I. - ELEV

DIST	+	H.I.	-	ELEV
		14.41		
N.0+38		9.5		9.9
0+00		4.3		10.1
S.0+08		4.7		9.7
S.0+22		6.4		8.0
S.0+37		8.0		6.4
S.0+54		9.8		4.6
S.0+69		11.1		3.3

STA-85+00

0+00=STA-W.85+00 DE-ANZA COVE 1/4 L. SECT. N. &amp; S.

DIST + H.I. - ELEV

DIST	+	H.I.	-	ELEV
N.0+68		14.41		4.8 9.6
0+00				4.2 10.2
S.0+07				4.6 9.8
S.0+18				5.5 8.9
S.0+27				6.6 7.8
S.0+47				9.0 5.4
S.0+71				11.1 3.3

STA-W.84+00

0+00=STA-W.84+00 DE-ANZA COVE 1/4 L. SECT. N. &amp; S.

DIST + H.I. - ELEV

DIST	+	H.I.	-	ELEV
N.0+35		14.41		4.6 9.8
0+00				4.8 9.6
S.0+09				4.9 9.5
S.0+19				5.6 8.8
S.0+33				7.1 7.3
S.0+53				9.1 5.3
S.0+76				11.3 3.1



STA-W-83+00

0+00 = STA-W-83+00 DEANZA COVE S/B/L: SECT. N. & S.

DIST	+	H.I.	-	ELEV
N.0+73		14.41	4.5	9.9
0+00			3.9	10.5
S.0+08			4.8	9.6
S.0+21			5.9	8.5
S.0+38			7.9	6.5
S.0+55			9.6	4.8
S.0+75			11.3	3.1

STA-W-82+00

0+00 = STA-W-82+00 DEANZA COVE S/B/L: SECT. N. & S.

DIST	+	H.I.	-	ELEV
N.0+50		14.41	4.9	9.5
0+00			5.0	9.4
S.0+08			5.3	9.1
S.0+18			6.1	8.3
S.0+32			7.5	6.9
S.0+55			9.7	4.7
S.0+75			11.4	3.0
T.B.M. #7			4.80	9.61

T.B.M. #7

11.37  
10.14

8-3-48

53

STA-81+00

0+00 = STA-W-81+00 DEANZA COVE S/B/L: SECT. N. & S.

DIST	+	H.I.	-	ELEV
T.B.M. #7		14.0	4.38	13.99
N.0+65			4.5	9.5
0+00			4.7	9.3
S.0+07			4.9	9.1
S.0+36			5.8	8.2
S.0+39			7.5	6.5
S.0+52			9.4	4.6
S.0+71			11.1	2.9

9.61  
13.99  
T.B.M. #7  
E/STA-82+00  
TOP OF SLOPE



STA-80+00

0+00 = STA-W-80+00 DE-ANZA COVE S/D/L. SECT. N.E.S.

DIST	T	H.I.	-	ELEV
N.0+90		14.0 13.99	4.7	9.3
0+00			4.5	9.5
S.0+10			5.0	9.0
S.0+22			6.3	7.7
S.0+40			8.4	5.6
S.0+69			11.0	3.0

STA-79+00

0+00 = STA-W-79+00 DE-ANZA COVE S/D/L. SECT. N.E.S.

DIST	T	H.I.	-	ELEV
S.0+72		14.0 13.99	11.2	2.8
S.0+52			9.9	4.1
S.0+34			8.1	5.9
S.0+15			6.0	8.0
0+00			4.9	9.1
N.0+50			4.2	9.8
N.0+			4.4	9.6
			2.70	11.29

STA-W-78+00

0+00 = STA-W-78+00 DE-ANZA COVE S/D/L. SECT. N.E.S.

DIST	T	H.I.	-	ELEV
N.1+56		14.0 13.99	10.9	3.1
N.1+21			9.5	4.5
N.1+00			8.5	5.5
N.0+67			7.1	6.9
N.0+43			6.5	7.5
0+00			6.2	7.8
S.0+27			6.8	7.2
S.0+54			7.7	6.6
S.0+83			8.3	5.7
1+00			9.4	4.6
S.1+23			10.7	3.3
B.M.			3.93	10.06

2" x 8" 65' N/STA-79+00 (S/COR)

11.33 T.B.M

2.70 +

14.03 H.I.

3.93 - B.M

10.06

13.99

10.06

3.93

BETWEEN F-4 &amp; F-5

T.B.M. 2" x 2" ON TIP OF DE-ANZA POINT EL. 11.33



PROGRESS X-SECTIONS  
OCEAN FRONT PROJ. # 9

8-5-48

(50)  
T. STAMPER  
A. SHERRY  
N. STANLEY

STA 100+00

PX

STA 105+00

0+00 = 145' W. SEA WALL B/L

STA + H.I. - ELEV. PX

STA + H.I. - ELEV. (SEE PR. 31)  
X ON WALL  
BASE AT  
STA 101+00

0+00 = 210' W. SEA WALL B/L  
X ON WALL  
BASE AT  
STA 105+00

T.B.M. 2.07 15.39 13.32

TBM 2.20 15.36 13.16

E 144 4.2 11.2

E 208 3.7 11.7

E 85 4.4 11.0

E 130 4.4 11.0

00 4.9 10.5

E 92 5.7 9.7

W 65 5.2 10.2

E 46 4.8 10.6

W 115 5.2 10.2

00 4.7 10.7

W 162 5.3 10.1

W 58 6.0 9.4

W 228 9.1 6.3

W 110 8.8 6.6

W 280 11.0 4.4

W 164 10.8 4.6

W 340 13.0 2.4

W 220 12.5 2.9

W 385 14.2 1.2

W 275 13.6 1.8

W 420 15.5 -0.1

W 308 14.0 1.4

W 320 15.0 0.4



## OCEAN FRONT SECS. CONTD

STA. 95+00

0+00 = 208 W. SEAWALL B/L

PX

STA	+	H.I.	-	ELEV.	X-ON WALL BASE AT STA. 95+00
TBM	1.38	14.75		13.37	
E206					
E205			3.0	11.7	
E150			3.6	11.1	
E70			2.9	11.8	
0			4.2	10.5	
W43			4.4	10.3	
W100			4.6	10.1	
W180			9.0	5.7	
W233			10.6	4.1	
W283			12.2	2.5	
W320			13.1	1.6	
W335			13.7	1.0	
W350			14.4	0.3	

8-5-48

(57)

STA 90+00 PX

0+00 = 291 W. SEAWALL B/L

STA	+	H.I.	-	ELEV.	X-ON WALL BASE AT STA. 90+00
TBM	0.0	13.3		13.32	
290E			2.1	11.2	
E200			4.1	9.2	
E135			3.7	9.6	
E90			3.3	10.0	
E20			3.1	10.2	
0			4.8	8.5	
W48			7.9	5.4	
W100			9.5	3.8	
W155			11.1	2.2	
W178			11.6	1.7	
W200			12.4	0.9	
W215			12.8	0.5	



DRAINAGE SURVEY FOR  
 PROPOSED PIPE EXTENSIONS  
 ALONG WLY SIDE OF HI-WAY  
 101 ADJACENT TO PROJ NO 31

STA OBJ. ANGLE DIST BEARING

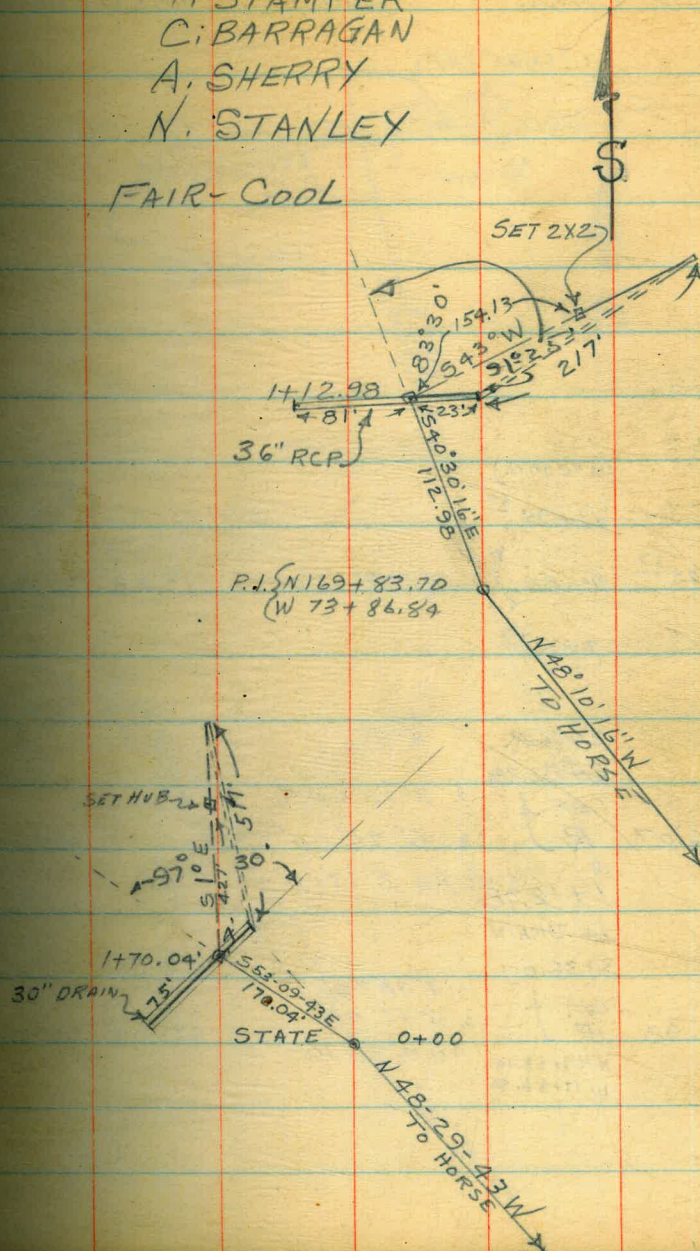
	36" DRAIN			
	1+12.98	① 7° 40' 00"		
N 169+83.70	R ↑	② 15° 20' 00"	112.98	
W 73+86.84		AV.		
	HORSE			
	END PIPE			
	+ 1" ELEV			
30" CULV.	RT ↑			
1+70.04				
	STATE			
	1+70.04	① 4° 40' 00"		
STATE	LT ↑	② 9° 20' 00"	170.04	553-09-43E
	HORSE	AV. 4" 40'		

8-20-98

58

T. STAMPER  
 C. BARRAGAN  
 A. SHERRY  
 N. STANLEY

FAIR-COOL





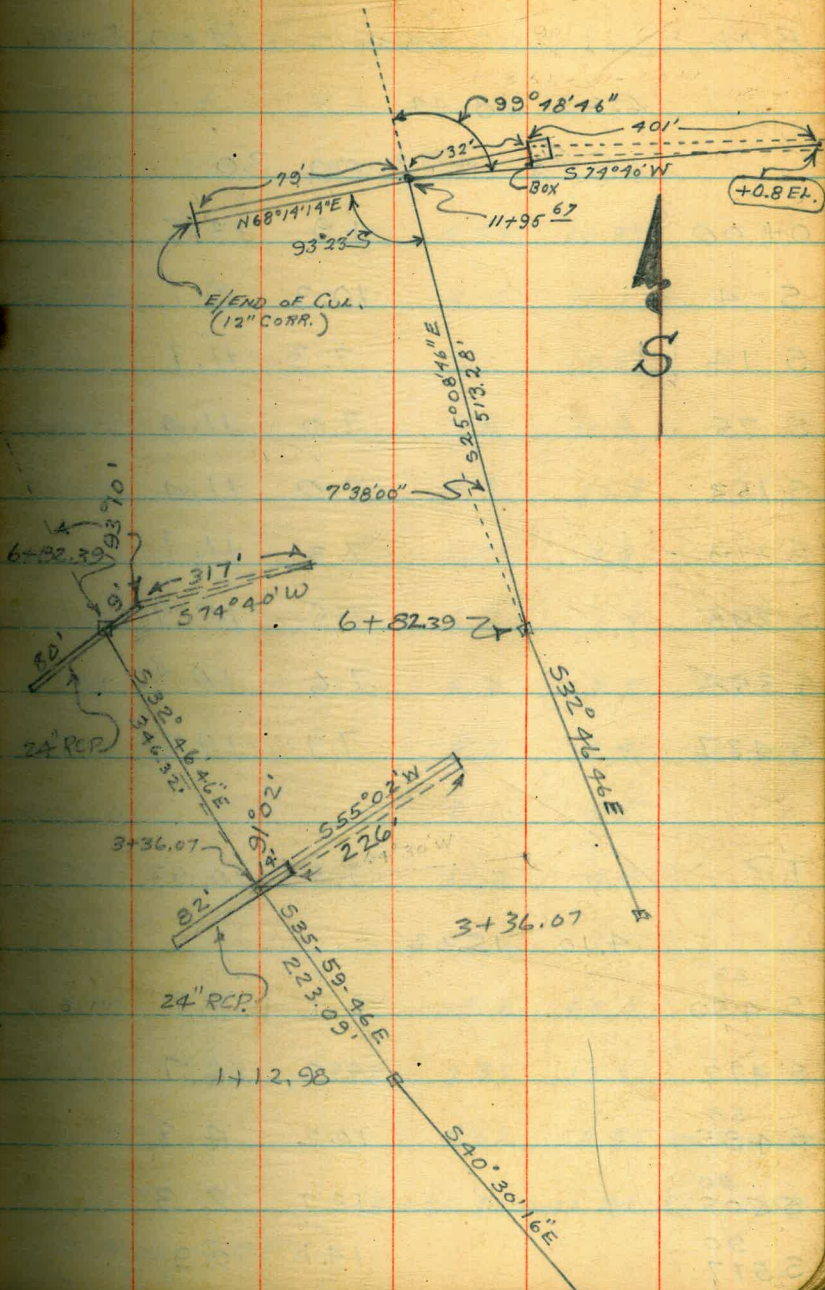
DRAINAGE SURVEY CONTD

8-20-48

STA OBJ. ANGLE DIST BEARING

6+82 <sup>33</sup>	(12" CORR.) DEF. RT. ↑ 11+95 <sup>67</sup> 3+36 <sup>02</sup>	① 7° 38' 00"	513.28'	S25°38'46" E
3+36.07	24" DR. DEF. ↑ R	1. 3° 13' 00" 2. 6° 26' 00" AV 3° 13' 00"		S32°46'16" E
1+12.98	24" DRAIN DEF. ↑ R	1. 4° 38' 30" 2. 9° 17' 00" AV 4° 38' 30"	223.09'	S35°59'46" E

N 169+83.70  
W 73+86.84





Proj #3, 1-PROFILE LEVELS DRAINAGE AREA

8-20-98

PX 60

STA	+	H.I.	-	ELEV
B.M.				12.09 STATE
	6.35	18.44		
				STA 1+70.04 30
0+00			4.9	13.5
S 4			10.3	8.1
S 14			7.3	11.1
S 75			7.0	11.4
S 153			7.0	11.4
S 219			7.3	11.1
S 295			7.5	10.9
S 358			7.6	10.8
S 427			7.7	10.7
				TP. 7.52 10.92
	4.10	15.02		
<sup>23</sup> S 450			6.1	8.9
S 472			8.3	6.7
<sup>58</sup> S 485			10.2	4.8
<sup>80</sup> S 507			12.7	2.3
<sup>90</sup> S 517			14.1	0.9

STA	+	H.I.	-	ELEV
				STA-11+95 <sup>52</sup> (12" CORR. CUL.)
				TP. 3.99 15.11 11.12
				TP. 4.79 15.58 4.32 10.79
				2+00 4.5 11.1
				W-0+07 5.1 10.5
				W-0+12 3.8 11.8
				W-0+16 4.8 10.8
				W-0+33 5.7 9.9
				W-2+82 6.2 9.4
				W-3+11 6.2 9.4
				SET Hub W-3+40 6.2 9.4 SET Hub
				W-3+60 9.1 6.5
				W-3+77 11.2 4.4
				W-3+95 12.6 3.0
				W-4+33 14.8 +0.8
				TP. 3.56 12.17 1.97 13.61
				4.62 12.55 = STATION

151+00 DE-ANZA B/L. EL.=12.58

TRUE COPY  
C.B.



PX

61

## PROFILE CONTD

8-20-48

240

23

217

STA 1+1298 36" DRAIN

STA	+	H.I	-	ELEV	
T.B.M.	4.65	16.76		12.11	SEEPS: 39 4x4"
0+00			5.1	11.7	EDGE P.V.
W 10			4.7	12.1	
W 15			6.0	10.8	
W 23					END PIPE
W 46			6.9	9.9	
W 102			6.8	10.0	
W 155			6.7	10.1	
W 159.13'					SET 242"
				12.11	
	2.01	14.12			
25 W 179			6.2	7.8	
41 W 195			8.3	5.7	
52 W 206			9.4	4.6	
66 W 220			10.5	3.5	
84 W 238			12.5	1.5	
86 W 240			13.4	0.7	



STA + H.I. - ELEV **PX**  
 PROFILE CONTD

T.B.M. 12.11 4X4 SEE PG 61

3.47 15.58

STA 3+36.07

0+00 5.0 10.6 EEPAV.

W 14 5.1 10.5

W 80 5.8 9.8

W 118 5.4 10.2

W 157 5.8 9.8 SET HUB

W 179 7.8 7.8

W 201 10.0 5.6

W 212 11.1 4.5

W <sup>240</sup>~~23~~ 13.3 2.3

TP. 4.46 11.12

3.84

8-20-48 343 10.65 15.29  
 333 15.29 5.4562  
 10.65 9.69  
 7.67 15.3

STA + H.I. - ELEV B.M.

(STADIA) 2.25 15.29 13.04 & HIGHWAY 10  
 333' W

T.B.M. 5.65 9.64 SET HUB  
 T.B.M. 100' S/END OF CULVERT

32' E TACK SET HUB

313' W TACK SET HUB

TACK



PROFILE CONTD

PX

8-23-78 63

FINAL SOUNDINGS OF PROJECT #9

PX

(SUPP. TO ORIGINAL CONTRACT.)

STA	6+82.39		
STA	+ 4.1	-	ELED
	15.0		SEE PG 62
T.BM	3.84	19.96	11.12
0+00		4.9	10.1
W 16		4.5	10.5
W 163		5.0	10.0
W 215		5.1	9.9
W 246		4.7	10.3
W 266		6.7	8.3
W 284		8.8	6.2
W 297		10.3	4.7
W 326		12.4	2.6

END SECTION 150' NORTH

STA-172+00

0+00 = PT. 150' NORTH STA-172+00 1/2-2-38/k;

	DIST	SOUND	DIST	SOUND	
0+00	1.7	+2.6	+30	2.0	+2.3 (4.3)
+10	1.8	+2.5		2.0	+2.3
11:25	1.8	(4.3) <sup>+2.5</sup>	+50	2.0	—
	1.9	+2.4		2.0	—
	1.9	—		4.0	+0.3
50	1.8	+2.5		8.1	-3.8
	1.9	+2.4		11.9	-6.9
	1.9	—	2+00	12.9	-7.9
	1.9	—		12.7	-7.7
	2.0	+2.3		11.5	-6.5
1+00	1.9	+2.4		12.2	-8.2
	1.9	+2.4	11:34	12.1	-8.1
+20	2.0	+2.3	+50	12.6	-8.3
			+60	13.0	-8.7
				12.3	-8.0



8-23-48

END SECTION AT STA-172+00 "1-2-3" B/L. PX

0400 = STA W. 172+00 "1-2-3" B/L.

SOUND WEST

DIST. SOUND DIST. SOUND

12:38

0400 2.1

+2.7

(4.8)

+70

+10

2.0 +2.8

2.0

1.9 +2.9 2+00

2.0 +2.8

+50

2.1 +2.7

2.6 +2.2

5.2 -0.4

11.5 -6.7 +50

13.0 -8.2

1+00 12.5 -7.7

13.0 -8.2

12.9 -8.1

12.8 -8.0

12:43 12.7 -7.9

+50 12.7

STA PX 8-23-48 (67)

END SECTION 50' N. OF 172+00 "1-2-3" B/L

0400 = PT. 50' N. OF STA. 172+00 "1-2-3" B/L

SOUND WEST

DIST. SOUND DIST. SOUND

12:53

0400 1.9

+2.9

(4.8)

+70

12.0

-7.2

+10

2.0 +2.8

12.1

-7.3

2.2 +2.6

12:59

12.1

-7.3

(4.8)

2.2

2+00

12.9

-8.1

2.5 +2.3

+50

2.9 +1.9

3.0 +1.8

2.9 +1.9

2.4 +2.4

2.1 +2.7

1+00

2.0 +2.8

2.5 +2.3

4.5 +0.3

6.0 -1.2

9.1 -1.3

+50

11.9 -7.1

12.0 -7.2



PX 8-23-78

STA 173+00

0400 = PT 200' N OF STA 173+00 "12.3" B/L  
SOUND SOUTH

DIST	SOUND		DIST	SOUND	
13:05 0400	2.5	+2.3 4.8	+60 <del>+70</del>	5.2	-0.4 4.8
+10	2.4	+2.1		9.5	-4.7
	2.4	+2.1		12.0	-7.2
	2.2	+2.6	+90 2400	12.8	-8.0
	2.2	—		13.0	-8.2
+50	2.2	—		13.4	-8.6
	2.2	—		13.2	-8.1
	2.2	—		14.7	-9.9
	2.1	+2.7	+50	13.2	-8.4
	2.0	+2.8		13.2	—
1400	2.1	+2.7		13.2	—
	2.1	—		13.6	-8.8
	2.0	+2.8	13:10 <u>3400</u>	13.5	-8.7
	2.0	—		13.8	-9.0
	2.0	—			
+50	2.1	+2.7			

PX 8-23-78

(65)

STA 174+00

0400 = PT 200' N OF STA 174+00 "12.3" B/L  
SOUND SOUTH

DIST	SOUND		DIST	SOUND	
13:16 0400	2.5	+2.3 4.8	+70	12.9	-8.1 4.8
+10	2.5	+2.3		13.0	-8.2
	2.5	—		12.9	-8.1
	3.2	+1.6	2400	12.8	-8.0
	11.2	-6.4		13.2	-8.4
+50	13.0	-8.2		13.0	-8.2
	13.0	—		13.0	—
	12.8	-8.0		13.0	—
	12.8	—	+50	13.4	-8.6
	12.9	-8.1		13.3	-8.5
1400	12.9	—		13.0	-8.2
	13.0	-8.2		13.0	—
	12.9	-8.1	13:21	13.0	—
	13.0	-8.2	3400	13.1	-8.3
	12.9	-8.1			
+50	12.9	—			
+60	12.9	—			



PX

PX 8-23-48

STA. 175+00

0400 = PT 200' N. STA. 175+00 "1-2-3" B/L  
SOUND SOUTH

DIST.	SOUND		DIST.	SOUND	
13:25 0400	2.4	+2.3 (4.7)	+70	12.9	-8.2 (4.7)
+10	2.4	+2.3		13.0	-8.3
	2.4	—		13.0	—
	6.5	-1.8	2400	13.1	-8.1
	10.5	-5.8		13.1	—
+50	11.6	-6.9		13.2	-8.5
	11.9	-7.2		13.0	-8.3
	12.0	-7.3		12.9	-8.2
	12.0	—	+50	13.0	-8.3
	12.3	-7.6		13.1	-8.2
1400	12.3	—		13.0	-8.3
	12.2	-7.5		13.1	-8.2
	12.4	-7.7	13:32	13.1	—
	12.5	-7.8	3400	13.1	—
	12.8	-8.1			
+50	12.9	-8.2			
+60	13.0	-8.3			

PX 8-23-48 (66)

STA. 176+00

0400 = PT 200' N. STA. 176+00 "1-2-3" B/L  
SOUND SOUTH

DIST.	SOUND		DIST.	SOUND	
13:38 0400	2.3	+2.4 (4.7)	+70	13.7	-9.0 (4.7)
+10	2.2	+2.5		13.8	-9.1
	2.2	—		13.9	-9.2
	7.5	-2.8	2400	13.3	-8.6
	12.0	-7.3		13.3	—
+50	13.0	-8.3		13.2	-8.5
	13.2	-8.5		13.0	-8.3
	13.1	-8.4		12.7	-8.0
	13.1	—	+50	12.1	-7.4
	13.2	-8.5		12.7	-8.0
1400	13.2	—		12.7	—
	13.3	-8.6		12.8	-8.1
	13.2	-8.5		12.8	—
	13.3	-8.6	13:42	12.8	—
	13.2	-8.5	3400		
+50	13.3	-8.6			
+60	13.3	—			



8-23-48 PX

STA. 177+00

0+00 = PT. 200' N. OF STA. 177+00 "12.3" B/L

SOUND SOUTH

DIST.	SOUND		DIST.	SOUND	
13:47 0+00	2.1	+2.5 (4.6)	+70	13.4	-8.8 (4.6)
+10	2.1	+2.5		13.1	-8.5
	2.0	+2.6		13.1	—
	7.0	-2.4	2+00	13.1	—
	11.0	-6.1		13.2	-8.6
+50	12.5	-7.9		13.0	-8.4
	12.5	-7.9		13.1	-8.5
	12.6	-8.0		12.5	-7.9
	12.5	-7.9	+50	12.5	—
	12.6	-8.0		12.7	-8.1
1+00	12.5	-7.9		12.9	-8.3
	12.6	-8.0		12.8	-8.2
	12.7	-8.1	13:52	12.8	—
	13.0	-8.4	3+00	12.9	-8.3
	13.0	—			
+50	13.1	-8.5			
+60	13.3	-8.7			

PX 8-23-48 (27)

STA. 178+00

0+00 = PT. 200' N. OF STA. 178+00 "12.3" B/L

SOUND SOUTH

DIST.	SOUND		DIST.	SOUND	
14:03 0+00	1.8	+2.7 (4.5)	+70	12.7	-8.2 (4.5)
+10	1.8	+2.7		12.8	-8.3
	2.1	+2.4		12.8	—
	5.0	-0.5	2+00	12.7	-8.2
	10.3	-5.8		12.8	-8.3
+50	11.9	-7.1		12.6	-8.1
	11.9	-7.1		12.0	-7.5
	12.0	-7.5		11.7	-7.2
	12.3	-7.8	+50	12.1	-7.6
	12.3	—		12.2	-7.7
1+00	12.1	-7.6		12.3	-7.8
	12.1	—		12.6	-8.1
	12.2	-7.7	14:08	12.7	-8.2
	12.7	-8.2	3+00	12.9	-8.4
	12.7	—			
+50	12.8	-8.3			
+60	12.8	—			



8-23-98 PX

STA. 179+00

0+00 = PT. 200' N. OF STA. 179+00 "12.3" B/L  
SOUND SOUTH

DIST.	SOUND		DIST.	SOUND	
14:16 0+00	1.9	+2.5 (4.4)	+70	13.0	-8.6 (4.4)
+10	1.9	+2.5		12.9	-8.5
	2.0	+3.4		12.9	—
	6.5	-2.1	2+00	13.0	-8.6
	10.3	-5.9		13.1	-8.7
+50	11.9	-7.5		13.2	-8.8
	12.2	-7.8		13.0	-8.6
	12.2	—		12.9	-8.5
	12.0	-7.6	+50	12.0	-8.6
	12.0	—		12.0	—
1+00	12.0	—		12.3	-8.9
	12.3	-7.9		12.7	-8.9
	12.6	-8.2	14:20	12.8	-8.4
	12.8	-8.4	3+00	12.8	—
	12.9	-8.5			
+50	13.2	-8.8			
+60	13.1	-8.7			

PX 8-23-98 (68)

STA. 180+00

0+00 = PT. 200' N. OF STA. 180+00 "12.3" B/L  
SOUND SOUTH

DIST.	SOUND		DIST.	SOUND	
14:26 0+00	2.2	+2.1 (4.3)	+70	12.9	-8.6 (4.3)
+10	2.5	+1.8		12.9	-8.6
	5.5	-1.2		12.8	-8.5
	10.4	-6.1	2+00	12.7	-8.4
	11.9	-7.6		13.0	-8.7
+50	11.9	—		12.9	-8.6
	12.0	-7.7		12.7	-8.4
	12.1	-7.8		12.1	-7.8
	12.2	-7.9	+50	12.3	-8.0
	12.5	-8.2		12.9	-8.6
1+00	12.6	-8.3		12.9	—
	12.7	-8.4		12.9	—
	12.8	-8.5	14:31	12.9	—
	12.8	—	3+00	13.0	-8.7
	12.8	—			
+50	12.9	-8.6			
+60	12.9	—			



PX 8-23-48

STA 181+00

0+00 = PT. 200' N, STA 181+00 "1-23" B/L

SOUND SOUTH

DIST	SOUND		DIST	SOUND
	+1.9			-9.2
<u>14:47</u> 0+00	2.2	(4.1)	+70	13.3 (4.1)
+10	2.3	+1.8		13.5 -9.4
	6.5	-2.4		13.4 -9.3
	8.0	-3.9	2+00	13.3 -9.2
	11.0	-6.9		13.3 —
+50	12.9	-8.8		13.3 —
	12.2	-8.2		13.5 -9.4
	12.7	-8.6		13.1 -9.0
	12.7	—	+50	12.0 -7.9
	12.8	-8.7		12.0 —
1+00	12.9	-8.8		12.0 —
	12.9	—		12.1 -8.0
	13.0	-8.9	<u>14:51</u>	12.1 —
	13.2	-9.1	3+00	11.7 -7.6
	13.1	-9.0		
+50	13.1	—		
+60	13.2	-9.1		

PX 8-23-48 (69)

STA 182+00

0+00 = PT. 200' N STA 182+00 "1-23" B/L

SOUND SOUTH

DIST	SOUND		DIST	SOUND
	+2.2			-8.9
<u>15:00</u> 0+00	1.8	(4.0)	+70	12.9 (4.0)
+10	1.8	+2.2		12.9 -8.9
	5.0	-1.0		12.9 —
	7.5	-3.5	2+00	12.9 —
	11.6	-7.6		13.1 -9.1
+50	12.3	-8.3		13.1 —
	11.9	-7.9		13.3 -9.3
	12.0	-8.0		13.0 -9.0
	12.1	-8.1	+50	13.3 -9.3
	12.0	-8.0		12.8 -8.8
1+00	12.5	-8.5		12.1 -8.1
	12.5	—		11.7 -7.7
	12.5	—	<u>15:04</u>	11.9 -7.9
	12.7	-8.7	3+00	12.1 -8.1
	12.9	-8.9		
+50	12.9	—		
+60	12.8	-8.8		



12" CORROGATED IRON PIPE  
STA 11+95.67 - 1 PROFILE

8-30-48

70

EAST ACROSS HI-WAY

TOM ALLEN  
TOM STAMPER

STA	+	H. I	-	ELEV	
TBM	5.34	16.45		11.12	
0+00		5.3		11.1	
E 5		4.5		12.0	
E 14		4.2		12.2	
E 37		3.7		12.7	
E 40		3.3		13.1	±
BM,		3.41	13.04	E. EDGE	± DIVIDING STRIP PAINTED YELLOW
E 43		3.7		12.7	
E 66		3.6		12.8	
E 73		3.6		12.8	
E 80		5.53	10.92	LIP SP. WAY	
W 33		5.7	10.7	TOP M.H.	
W 31		6.4	10.0	GR. "	
		10.2	6.2	{ F.L. 12" C.V.	

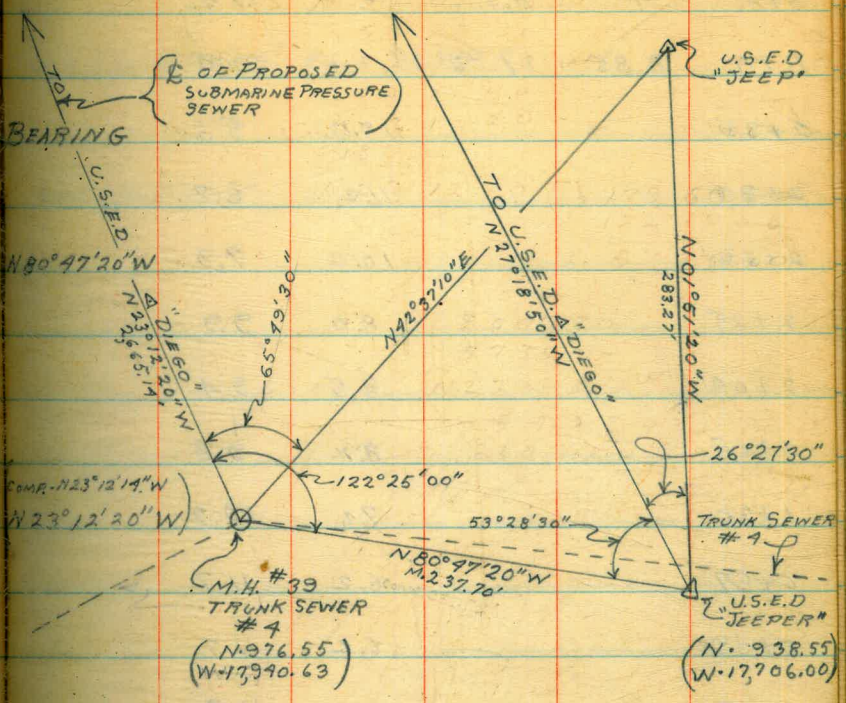


TRAVERSE TIE OF MAN HOLE #39 TRUNK SEWER #4

U.S.E.D. Δ PTS. "JEEPER" & "DIEGO"

("JEEPER" TO "DIEGO")  
N 27° 18' 50" W

STATION	OBJECT	ANGLE	DIST	BEARING
U.S.E.D. "DIEGO"		① 53° 28' 30"		
U.S.E.D. "JEEPER"	INT. LEFT	② 106° 57' 00"	237.70'	N 80° 47' 20" W
M.H. #39 TRUNK SEWER #4		AV. 53° 28' 30"		
U.S.E.D. "DIEGO"		① 122° 25' 00"		
M.H. #39 TRUNK SEWER #4	INT. RIGHT	② 271° 50' 00"	2,665.14'	N 23° 12' 20" W
U.S.E.D. "JEEPER"		AV. 122° 25' 00"		
U.S.E.D. "DIEGO"		① 65° 49' 30"		
M.H. #39 TRUNK SEWER #4	INT. RIGHT	②		N 42° 37' 10" E
U.S.E.D. "JEEPER"		AV. 65° 49' 30"		





PROFILE ALONG LINE OF PROPOSED SEWER — ACROSS MISSION BAY CHANNEL ENTRANCE  
 0+00 = M.H. # 39 TRUNK SEWER # 4

STA.      +      H.I.      -      ELEV.

B.M.    8.85    17.89      9.04

2+35                      15.3      5.6

2+30                      11.2      6.7

2+26                      10.0      7.9

2+25                      8.0      9.9

2+04                      8.5      9.4

1+65                      8.1      9.8

1+30                      7.2      10.7

0+87                      6.2      11.7

0+49                      6.2      11.7

0+27                      6.1      11.8

0+09                      5.2      12.7

0+00                      4.8      13.1

U.S.E.D. "A JEEP" E.L. = 9.036

SET HUB "2x2"

7.19

PX



## PROFILE ALONG C. OF PROPOSED SEWER — ACROSS MISSION BAY CHANNEL ENTRANCE

STA	+	H.I.	-	ELEV	
B.M.					
0+00	4.61	13.94		+9.33	U.S.P. Δ "DIEGO" EL = 9.33
0+22			5.3	+8.6	$\frac{4.61}{13.94}$
0+50			5.2	+8.7	
0+84			8.2	+5.7	
1+10			10.9	+3.0	
1+34			11.4	+2.5	
1+66			11.6	+2.3	
1+75			11.7	+2.2	



PROFILE ALONG  $\bar{C}$  OF PROPOSED SEWER  
 0+00 = (USED) "DIEGO" 9-3-18

SOUND SOUTH

DIST.	SOUND	DIST	SOUND	PX
10:17 +90	0.0 +5.0	+40	4.9	+0.1
1+00	1.0 +4.0	+50	4.9	—
+80	3.1 +1.9	(5.0)	5.0	0.0
(5.0)	3.3 +1.7		4.5	+0.5
2+00	3.5 +1.5		4.6	+0.1
	3.8 +1.2		5.7	-0.7
	3.9 +1.1	4+00	5.0	0.0
	4.2 +0.8		5.2	-0.2
	4.0 +1.0		6.2	-1.2
+50	4.1 +0.9		6.3	-1.3
	4.2 +0.8		6.3	—
	4.8 +0.2	+50	5.9	-0.9
	4.3 +0.7		6.7	-1.7
	4.5 +0.5		6.1	-1.1
3+00	4.8 +0.2		5.1	-0.1
	4.7 +0.3		4.9	+0.1
	4.6 +0.1	5+00	5.2	-0.2
+30	4.8 +0.2	+10	5.1	-0.1

ACROSS MISSION BAY CHANNEL ENTRANCE 9-3-18

PX (79)

DIST	SOUND	TAIL	DIST	SOUND	TAIL
10:24 +20	4.8 +0.2	7+00	10.3	-5.2	
	4.9 +0.1		10.3	—	
(5.0)	5.0 0.0	(5.1)	8.7	-3.6	
+50	6.5 -1.5		8.5	-3.4	
	7.0 -2.0		9.8	-4.7	
	8.0 -3.0	+50	9.9	-4.8	
	8.2 -3.2		7.0	-1.9	
	8.3 -3.3		7.0	—	
6+00	8.4 -3.4		11.5	-6.4	
	8.5 -3.5		13.1	-8.0	
	9.0 -4.0	8+00	12.8	-7.7	
	9.6 -4.6		12.6	-7.5	
	9.3 -4.3		11.9	-6.8	
+50	9.6 -4.6		10.9	-5.8	
	10.3 -5.3		10.1	-5.0	
	10.1 -5.1	+50	8.6	-3.5	
	7.5 -2.5		7.9	-2.8	
+90	8.4 -3.4	+70	7.0	-1.9	



SEWER PROFILE CONT  
9-3-48

DIST	SOUND	DIST.	SOUND
10:30 +80	7.5 -1.4	10:32 +60	10.5 -5.2
(5.1)	6.3 -1.2	(5.1)	10.7 -5.6
9+00	6.4 -1.3		11.2 -6.1
	7.2 -2.1		12.0 -6.9
	6.8 -1.7	11+00	11.0 -5.9
	6.9 -1.8		11.9 -6.8
	7.5 -2.1		11.9 —
+50	7.5 —		11.8 -6.7
	8.4 -3.3		11.9 -6.8
	8.5 -3.4	+50	10.9 —
	8.9 -3.8		10.8 -5.7
	9.2 -4.1		12.9 -7.8
10+00	9.5 -4.4		10.9 -5.8
	10.1 -5.0		10.6 -5.5
	10.1 —	12+00	9.8 -4.7
	11.0 -5.9		9.9 -4.8
	11.0 —		10.6 -7.5
+50	10.3 -5.2	+30	9.9 -4.8

SEWER PROFILE CONT. (75)  
9-3-48

DIST	SOUND	DIST	SOUND
10:35 +40	10.2 -5.1	10:39 +20	13.0 -7.8
(5.1)	10.2 —	(5.2)	12.8 -7.6
	10.6 -5.5		11.9 -6.7
	10.1 -5.0	+50	12.0 -6.8
	11.3 -6.2		12.2 -7.0
	12.1 -7.0		13.1 -7.9
13+00	10.9 -5.8		12.0 -6.8
	10.6 -5.5		12.0 —
	10.3 -5.2	10:41 15+00	12.0 —
	13.1 -8.0		
	11.5 -6.4		
+50	10.9 -5.8		
	11.0 -5.9		
	10.5 -5.4	+50	
	10.5 —		
	11.2 -6.1		
14+00	11.8 -6.7		
+10	12.2 -7.1	+90	



PROFILE ALONG Q OF PROPOSED SEWER ACROSS MISSION BAY ENTRANCE CHANNEL  
 0+00 = PT 230' N. OF MH#39 TK SEWER#4 9-3-48

PX (76)

SOUND NORTH

PX

DIST.	SOUND		DIST.	SOUND		DIST.	SOUND		DIST.	SOUND	
11:02 +10	0.3	+5.0	11:05 +90	4.3	+1.0	11:07 +70	6.5	-1.1	11:09 +50	11.0	-5.6
(5.3)	1.5 <del>2.5</del>	+3.8	2+00	4.8	+0.5	(5.4)	5.9	-0.5	(5.4)	11.0	—
	2.5	+2.8	(5.3)	5.7	-0.4		5.5	-0.1		11.0	—
	2.4	+2.9		6.3	-1.0	4+00	5.6	-0.2		11.3	-5.9
+50	2.9	+2.4		7.8	-2.5		6.0	-0.6		11.1	-5.7
	3.0	+2.3		8.9	-3.6		6.4	-1.0	6+00	10.9	-5.5
	3.1	+2.1	+50	9.7	-1.1		6.8	-1.4		10.5	-5.1
	3.2	+2.1		10.1	-4.8		7.4	-2.0		10.6	-5.2
	3.3	+2.0		10.5	-5.2	+50	8.5	-3.1		10.5	-5.1
1+00	3.4	+1.9		10.8	-5.5		9.4	-4.0		10.3	-4.9
	3.3	+2.0		11.0	-5.7		9.8	-4.4	+50	9.9	-4.5
	3.4	+1.9	3+00	10.6	-5.3		9.9	-4.5		10.1	-4.7
	3.4	+1.9		10.2	-4.9		10.0	-4.6		9.9	-4.5
	3.5	+1.8		10.0	-4.7	5+00	10.4	-5.0		10.3	-4.9
+50	3.5	—		10.0	—		10.5	-5.1		10.1	-4.7
	3.1	+2.2		10.0	—		10.5	—	7+00	9.9	-4.5
	3.2	+2.1	+50	9.1	-3.8		10.4	-5.0		10.9	-5.5
+80	3.6	+1.7	+60	8.0	-2.7	+40	10.9	-5.5	+20	10.9	—



## SEWER PROFILE CON'T 9-3-48

SOUTH CAUSEWAY BRIDGE PROFILE (77)  
CONTD.

STA + H.I - ELEV.

DIST.	SOUND	DIST.	SOUND	STA	H.I	ELEV.	
11:11				5			
+30	11.9	-6.5		5+75	34.45	10.03	24.42 W.G.
(5.4)	11.5	-6.1				9.73	24.72 $\pm$ ✓
+50	11.1	-5.7				9.90	24.55 E
	11.2	-5.8		6+10		12.12	22.33 W
	11.4	-6.0				11.83	22.62 $\pm$ ✓
	11.2	-5.8				12.04	22.41 E
	11.5	-6.1		TP	2.36	11.50	22.95
8+00	11.8	-6.4		6+45	25.31	5.01	20.30 W
	12.8	-7.1				4.78	20.53 $\pm$ ✓
	12.7	-7.3				4.98	20.33 E
	12.1	-6.7		6+80		7.20	18.11 W
	13.1	-7.7				6.91	18.40 $\pm$ ✓
+50	12.6	-7.2				7.13	18.18 E
	13.4	-8.0		7+15		9.47	15.84 W
	12.9	-7.5				9.17	16.14 $\pm$ ✓
	14.0	-8.6				9.32	15.99 E
11:13	13.2	-7.8		7+50		11.42	13.89 W
9+00	12.9	-7.5				11.13	14.18 $\pm$ ✓
						11.33	13.98 E
						14.28	11.03 2"x2" HUB

SOUTH CAUSEWAY BRIDGE  
81+00



## ELEVATIONS OF TOPOF

11-1-48

(78)

## PAVING SOUTH CAUSEWAY BRIDGE

NOTE: 0+00 = SOUTH END OF BRIDGE  
BRIDGE

STA	+ H.I.	-	ELEV.	
			16.96	CHISL. @ STA 3+00
	H.I. 10			
0+00	28.66	14.16	13.90	W. GUTTER
		13.85	14.21	☒
		14.07	13.99	E. GUTTER
0+35		11.92	16.14	W. GUTTER
		11.73	16.33	☒
		11.85	16.21	E. GUTTER
0+70		9.86	18.20	W. GUTTER
		9.62	18.44	☒
		9.87	18.19	E. GUTTER
1+05		7.77	20.29	W. "
☒		7.54	20.52	☒
		7.69	20.37	E. "
1+40		5.71	22.35	W. "
		5.46	22.60	☒
		5.63	22.43	E. "



CONTD  
 PROFILE. S. CAUSEWAY BRIDGE

11-1-48

(79)

STA + H.I - ELEV.

1+75 28.06 3.54 24.52

3.30 24.76 ✓

3.53 24.53

2+10 1.44 26.62

1.21 26.85 ✓

1.44 26.62

TP. 1.41 26.65

7.80

2+45 34.45 5.80 28.65

5.54 28.91 ✓

5.74 28.71

2+80 3.63 30.82

3.41 31.04 ✓

3.63 30.82

3+15 2.30 32.15

2.12 32.33 ✓

2.45 32.00

WEST GUTTER

⊕

EAST GUTTER

W

⊕

E

W.

⊕

E

W.

⊕

E

W

⊕

E



(80)

## PROFILE CONTD 11-1-48

STA	+	H.I.	-	ELEV.	
3+50		34.45	1.60	32.85	W.G.
			1.33	33.12	¢ ✓
			1.59	32.86	E
4+00		1.50	32.95	W.	
			1.28	33.17	¢ ✓
			1.52	32.93	E
4+35		2.20	32.25	W	
			1.98	32.47	¢ ✓
			2.21	32.24	E
4+70		3.68	30.77	W	
			3.40	31.05	¢ ✓
			3.60	30.85	E
5+05		5.74 <sup>5</sup>	28.70	W	
			5.53	28.92	¢ ✓
			5.76	28.69	E
5+40		7.93	26.52	W	
			7.64	26.81	¢ ✓
			7.80	26.65	E

(SEE PG 77)

JEEPER TO-DIEGO N 27° 18' 50" W  
 H<sub>2</sub>O TANK N 61° 19' 28" E  
 JEEP N 01° 51' 20" W  
 JEEP EL. = 9,036

S 23-12-20 E

66-11-

89 23 20

23 12 20

66 10 45

89 22 59

27 18 50

1 51 20

25° 27' 30" AT.

57 28 30

78 56 00

122 25 00

65 19 30

56 35 30

78 56 00

135° 31' 30"

47 28 30

180 00 00

60

1180

45

2665.4

2065

610

232

MAR 3 4 0 N

DIEGO

MH

RH (2) 132-21

(4) 264-43

66-10 45

01-51-20

42° 37' 10"

49 28-30

79 107 20

01 51 20

78-56 00

65-49-30

43-88-30

189 334 00

+ 1.6 2+00

- 1.3 1+70

- 4.6 7+90

- 1.6 10+00

- 7.0 15+00

20+55



262.18

1.49  
2.60  
10.4  
48  
50  
TP # 2

10.4  
48  
50  
9.27  
2.7  
6.57  
-5.20

9.58  
2.7  
6.9  
9.71  
4.8  
4.9  
ELEV 5.03

12.80  
6.97  
5.83  
5.55  
11.38  
6.0  
5.38

11.38  
3.71  
5.67

9.57  
4.8  
4.77  
8.29

9.27  
6.29

9.71  
4.87  
4.84

13.38  
7.8  
14.16

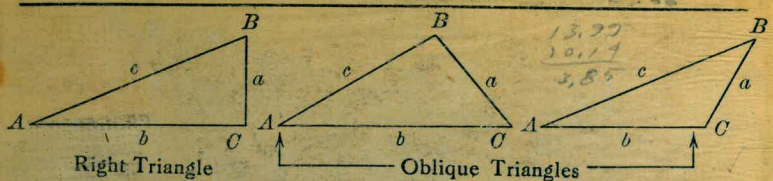
11.4  
4.8  
6.6

9.6  
2.7  
6.9

10.4  
2.7  
7.7

5.82  
14.59  
10.47

283.27 TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

For Angle A.  $\sin = \frac{a}{c}$ ,  $\cos = \frac{b}{c}$ ,  $\tan = \frac{a}{b}$ ,  $\cot = \frac{b}{a}$ ,  $\sec = \frac{c}{a}$ ,  $\operatorname{cosec} = \frac{c}{b}$

Given Required  
 $a, b$   $A, B, c$   $\tan A = \frac{a}{b} = \cot B, c = \sqrt{a^2 + b^2} = a \sqrt{1 + \frac{b^2}{a^2}}$   
 $a, c$   $A, B, b$   $\sin A = \frac{a}{c} = \cos B, b = \sqrt{(c+a)(c-a)} = c \sqrt{1 - \frac{a^2}{c^2}}$   
 $A, a$   $B, b, c$   $B = 90^\circ - A, b = a \cot A, c = \frac{a}{\sin A}$   
 $A, b$   $B, a, c$   $B = 90^\circ - A, a = b \tan A, c = \frac{b}{\cos A}$   
 $A, c$   $B, a, b$   $B = 90^\circ - A, a = c \sin A, b = c \cos A$

Solution of Oblique Triangles

Given Required  
 $A, B, a$   $b, c, C$   $b = \frac{a \sin B}{\sin A}, C = 180^\circ - (A + B), c = \frac{a \sin C}{\sin A}$   
 $A, a, b$   $B, c, C$   $\sin B = \frac{b \sin A}{a}, C = 180^\circ - (A + B), c = \frac{a \sin C}{\sin A}$   
 $a, b, C$   $A, B, c$   $A + B = 180^\circ - C, \tan \frac{1}{2}(A - B) = \frac{(a - b) \tan \frac{1}{2}(A + B)}{a + b}$   
 $c = \frac{a \sin C}{\sin A}$   
 $a, b, c$   $A, B, C$   $s = \frac{a + b + c}{2}, \sin \frac{1}{2}A = \sqrt{\frac{(s - b)(s - c)}{bc}}$   
 $\sin \frac{1}{2}B = \sqrt{\frac{(s - a)(s - c)}{ac}}, C = 180^\circ - (A + B)$   
 $a, b, c$  Area  $s = \frac{a + b + c}{2}, \text{area} = \sqrt{s(s - a)(s - b)(s - c)}$   
 $A, b, c$  Area  $\text{area} = \frac{bc \sin A}{2}$   
 $A, B, C, a$  Area  $\text{area} = \frac{a^2 \sin B \sin C}{2 \sin A}$

REDUCTION TO HORIZONTAL

Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus, slope distance = 319.4 ft. Vert. angle =  $5^\circ 10'$ . From Table, Page IX,  $\cos 5^\circ 10' = .9959$ . Horizontal distance =  $319.4 \times .9959 = 318.09$  ft. Horizontal distance also = Slope distance minus slope distance times (1 - cosine of vertical angle). With the same figures as in the preceding example, the same result is obtained.  $\text{Cosine} = 319.4 \times .0041 = 1.31$ .  $319.4 - 1.31 = 318.09$  ft. When the rise is known, the horizontal distance is slope distance less the square of the rise divided by twice the slope distance =  $302.6$  ft. Horizontal distance =  $302.6 - \frac{14}{2 \times 302.6}$

