Latigo Shores

Notes Ck'd by	Survey of Land Movement Study
Map No.	JN 0021-82 Tape 100 Std 84 °F
Office Work	Surveyed by L.K. Lind
Checked	Notes Lind Date 6-11-85
Date	Indexed D. J. GALLI

F. B. 3251 Pg. 5

Cont from FB 2894

UN 00 21. 82

Latigo Shores Land Movement Study

Horizontal Movement

Observations

June 11 1985

Lind
Moody
Lybrand
Workman
Wills

Microfilmed May '85.

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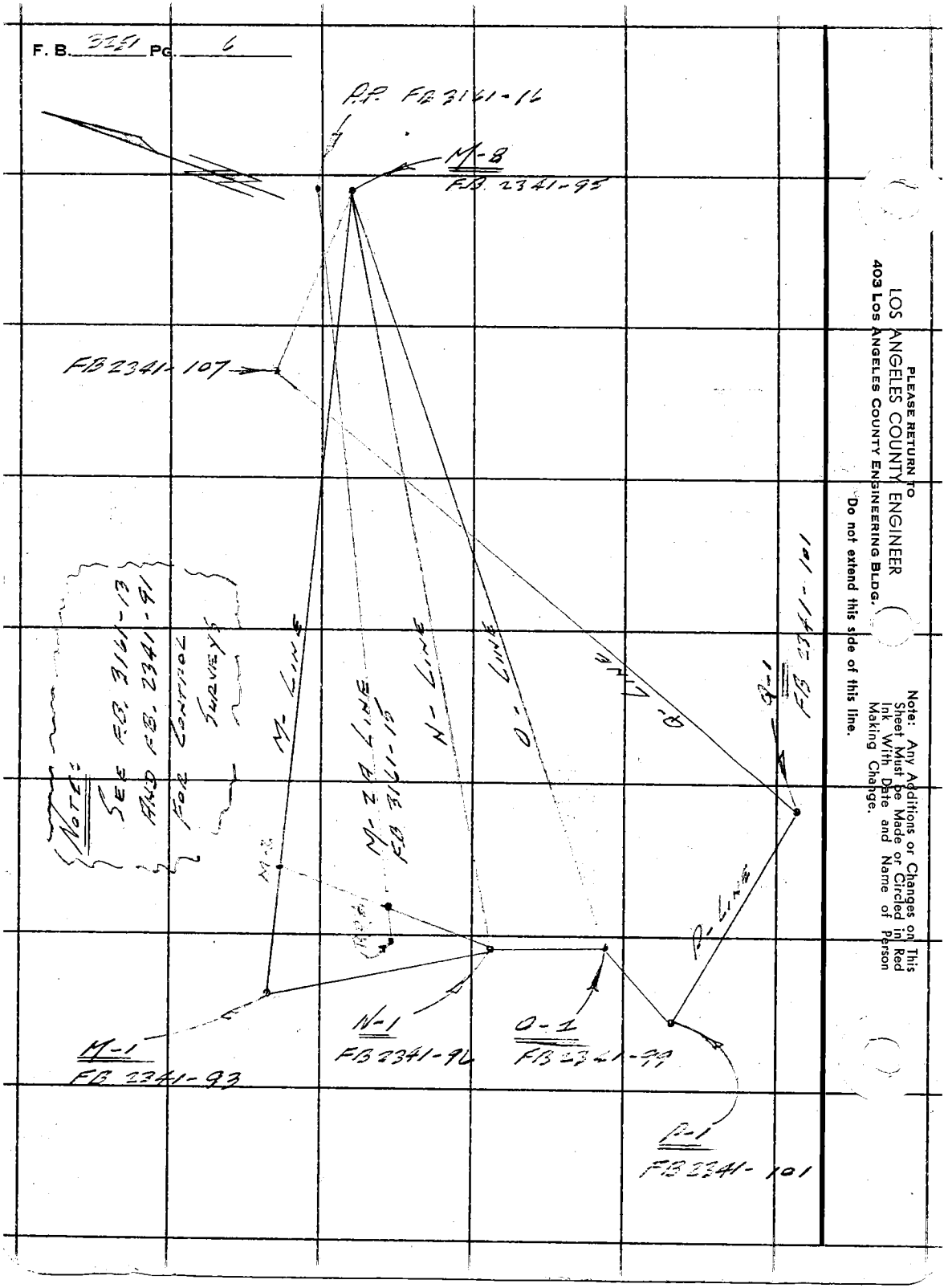
7 of 3095 CE # 310 3-81

F. B. 3261 Pg. 6



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76F309S CE # 310 3-61

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"M" LINE — DATE JUNE 11, 1965

ON LINE FROM	ON LINE TO	SIGHT ON STATION	"PLUS"	OFFSET AMT.	OFFSET L/R	NOTES	
M-1	M-8		0+00.00			"M" LINE M-1 THRU M-8 SEE F.B. 2341	93-95
		M-2	3+27.83	0.00		T=70	
			196.75			300.15 @ 1°14' =	300.05
						27.78 @ LRV =	27.78
		M-2A	4+74.58	14.89	R		327.83 ✓
			66.46			T=70	
		M-3	5+41.04	0.10	R	213.62 @ 3°30' =	213.21 ✓
			118.87			T=70	
						119.33 @ 4°58' =	118.87 ✓
		M-4	6+59.91	0.00		T=70	
			230.28			230.92 @ 4°12' =	230.28 ✓
		M-5	8+90.19	0.02	R	T=70 300.65 @ 3°52' =	299.93
			647.22			T=64 298.07 @ 3°31' =	297.47
						T=64 49.83 @ LRV =	49.82
							647.22 ✓
		M-6	15+37.41	0.00			
			341.28			T=64 51.23 @ LRV =	51.22
						290.29 @ 2°05' =	290.06
		M-7	18+78.69	0.00			341.28 ✓
			955.51				
		M-8	28+34.20	0.00		T=64	
						955.63 @ LRV =	955.51 ✓

Notes Ck'd by _____
Map No. _____
Office Work R. L. MITCHELL
Checked _____
Date _____

Survey of Lettice Shores
JN 00-32 Tape Lev Std 84 °F
Surveyed by C.K. LIND
Notes _____ Date 6-11-65
Indexed _____ C. J. GALLI

F.B. 3787 PG. 7

F. B. 3251 PG. 8

M-2 LINE — DATE JUNE 14, 1965

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L./R.	NOTES
A.P. #Z	A.P. #Y "X"		0+00.00	0.00		M-2 LINE SEE F.B. 3161, 15-16 BEG. LINE @ R.P. 1" LP. BOTT PG 15 END LINE @ Bt SPK W/ST BOTT PG 16
		M-2 AA	1+10.49	0.00		T=64 110.50 LEV = 110.49 ✓
		M-2 B	132.99 2+43.48	4.01	R.	T=64 188.34 @ 9°02' = 185.98 ✓
		P.O.T.	52.99 2+96.47	0.00		- 52.99 SET 1X2 & N.
		POT	124.16 4+20.63	0.00		T=64 125.81 @ 9°14' = 124.16 ✓ SET 1X2 & N.
		M 2 C	5.90 4+26.53	18.09	R	+ 5.90
		M 2 D	139.95 5+66.48	0.07	R	T=70 192.92 @ 1° 15' = 192.85 ✓
		POT	47.00 6+13.48	0.00		- 47.00 FD 1X2 & N. PER FB 3161-15
						T=70 49.08 @ 16°45' = 47.00

NOTE

TEMP. CORR WERE MADE IN FIELD FOR PLUSS AND OFFSET DISTANCE IF NECESSARY.

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"N" LINE — DATE JUNE 14, 1965

ON LINE FROM	ON LINE TO	SIGHT ON STATION	"PLUS"	OFFSET AMT.	OFFSET L/R	NOTES.
N-1	N-8		0+00.00	0.00		N-LINE SEE FB 2941, 93-95
		N-2	0+68.87	0.22	R	T=76 75.72 LEV= 75.71
			6.84			-6.84
		P.O.T.	0+75.71	0.00		SET 1X2 & N.
			91.09			T=76 96.04 @ 18°28' = 91.09
		P.O.T.	1+66.80	0.00		SET 1X2 & N
			4.37			+4.37
		N-3	1+71.17	0.18	R	
			121.69			122.26 @ 10°36' T=76 = 122.06
		N-4A	2+92.86	0.07	R	
			126.09			-3.18
		N-5	4+18.95	3.62	R	
			3.18			T=66 129.90 @ 4°33' = 129.27
		P.O.T.	4+22.13	0.00		SET 1X2 & N.
			101.81			
		N-5A	5+23.94	30.03	R	T=66 110.10 @ 4°14' = 109.79
			7.98			-7.98
		P.O.T.	5+31.92	0.00		SET 1X2 & N.
			77.29			77.30 LEV TO 66 = 77.29
		N-6	6+09.21	2.93	R	
		N-7				DESTROYED BY CONST. WORK

Notes Ck'd by ____
Map No. ____
Office Work R. J. MITCHELL
Checked ____
Date ____

Survey of LAND HOUSEKEEPER AREA
JN 2941, 92 Tape 66 Std. 84 °F
Surveyed by LINE
Notes ____ Date JUN 14-65
Indexed G. J. GALLI

LETTER 5 HOUSES

F. B. 3251 PG. 9

"O" LINE — DATE JUNE 14, 1965

ON LINE FROM	ON LINE TO	SIGHT OR STATION	PLUSS	OFFSET AMT	OFFSET L./R.	NOTES
O-1	M-8		0+00.00	0.00		O-LINE O-1 SEE FB 2341-99
						M-8 " " -95
		O-2	0+69.08	0.17	R	T=66 69.09 LEVE 69.08 ✓
			1 03.51			T=66 109.42 @ 18° 54' = 103.51 ✓
		O-3	1+72.59	0.57	R	T=66 192.52 @ 16° 32' = 184.54 ✓
			81.03			
		O-4	2+53.62	1.73	R	
		O-5	← DESTROYED	BY CONST.		WORK
POT #3	M-5		0+00.00	0.00		POT #3 PER FB 3161-23
						M-5 " " " -18
		P-2A	2+07.56	0.00		T=64 207.59 LEVE 207.56 ✓
POT #4	M-5		0+00.00	0.00		POT #4 PER FB 3161-24
						M-5 " " " -18
		P-4A	2+50.53	0.00		
						T=64 250.56 LEVE 250.53 ✓

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"P" LINE — DATE JUNE 15, 1965

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L./R.	NOTES.
P-1	P-5		0+00.00	0.00		P-LINE SEE FB 2341, 101-103
		POT #1	0+93.53	0.00		T=L4 94.05 @ 5°59' = 93.53 ✓
			29.93			T=L4 29.93 @ LEV = 29.93 ✓
		POT #3	1+23.46	0.00		
			60.40			T=L4 61.21 @ 9°17' = 60.40 ✓
		P-2	1+83.86	0.00		
			39.86			T=L4 42.52 @ 20°20' = 39.86 ✓
		P-3	2+23.72	0.08	L.	
			32.10			T=L4 35.72 @ 26°00' = 32.10 ✓
		POT #4	2+55.82	0.00		
			18.44			T=L4 21.14 @ 29°15' = 18.44 ✓
		P-4	2+74.26	0.03	R.	
			72.92			T=L4 36.12 @ LEV = 36.12 ✓
		P-5	3+47.18	0.00		38.47 @ 16°54' = 36.80
						72.92 ✓

Notes Ck'd by
Map No.
Office Work R. J. MITCHELL
Checked
Date

Survey of LAND MOVEMENT STUDY
JN 021.22 Tape 1/6 Std 84 °F
Surveyed by LIND Date 6-18-65
Notes
Indexed C. J. GALLI

LATIMO INDEX

F.B. 3251 PG. 11

F. B. 3251 PG. 12

Q - LINE

DATE JUNE 15 1965

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L./R.	NOTES.
Q-1	POT		0+00.00	0.00		Q-LINE SEE FB 2341, 103-107
		Q-2	1+54.36 171.19	0.08	R.	T=64 154.38 LEV= 154.36 T=64 171.21 LEV= 171.19
		Q-3	3+25.55 121.87	0.00		
		Q-4	4+47.42 46.40	3.84	R	46.41 LEV= 46.40 - 46.40 T=64 168.29 LEV= 168.27
		POT	4+93.82 57.88	0.00		T=64
		Q-5	5+51.70 88.94	4.48	R.	57.89 LEV=57.88 + 57.88
		Q-6	6+40.64 61.47	4.68	R	T=64 146.34 LEV= + 146.82 T=68 208.31 LEV= 208.29
		POT	7+02.11 36.31	0.00		
		Q-7	7+38.42 89.62	4.05	R	T=72 125.94 LEV = + 36.31 125.93
		Q-8	8+28.04 107.97	0.00		T=72 107.98 LEV= 107.97
		Q-9	9+36.01	0.00		

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LATIGO SHORE

Notes Ck'd by	Survey of LAND MOVEMENT STUDY	F. B. 1251	Pg. 13
Map No.	JN 0021.82 Tape 191 Std 84 °F		
Office Work R. J. MITCHELL	Surveyed by LWD		
Checked	Notes LWD Date 7-15-65		
Date	Indexed C. J. GALLI		

JN 0021.82

LATIGO SHORES LAND MOVEMENT STUDY

HORIZONTAL MOVEMENT

OBSERVATIONS

7-15-65

LWD

MOODY

LYBRAND

WORKMAN

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76F3095 CE # 310 3-61

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M- LINE — DATE July 15, 1965

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	OFFSET L/R	NOTES			
M-1	M-8		0+00.00			M- LINE SEE FB 2341- 93-95			
		M-2	3+27.77	0.00		T= 62	299.93 @	1°13' =	299.82 ✓
			146.79				27.95 @	LEV =	27.95
		M-2A	4+74.56	14.89	R.				327.77 ✓
			66.41			T=62	66.42	LEV =	66.41
		M-3	5+40.97	0.10	R.	T=62	213.61 @	3°25' =	213.20 ✓
			118.87						
		M-4	6+59.84	0.00		T= 62	119.17 @	3°54' =	118.87 ✓
			230.26						
		M-5	8+90.10	0.02	R	T= 66	230.95 @	4°20' =	230.26 ✓
			647.15						
		M-6	15+37.25	0.00		T= 76	300.57 @	3°48' =	299.88 ✓
			341.25			T= 72	300.40 @	3°45' =	299.73 ✓
		M-7	18+78.50	0.00		T= 72	47.54 @	LEV =	47.54 ✓
									647.15 ✓
						T= 68	48.64 @	LEV =	48.63 ✓
						T= 68	292.79 @	1°45' =	292.62 ✓
									341.25 ✓

F. B. 32-51 PG. 44

76F309S CE # 310 3-61

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M-2 LINE — JULY 16 1965

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFF SET AMT	L/R	
R.P. #Z	R.P. #Y		0+00.00	0.00		M-2 LINE SEE F.B. 3161, 15 & 16
		M-2 AA	1+10.49	0.00		T=66 110.50 @ LEV= 110.49 ✓
						-46.11 @ LEV= 46.10 ✓
		M-2 B	2+43.55	3.89	R	NOTE M-2B HAS BEEN HIT
						T=66 181.49 @ 9°09' = 179.16 ✓
		POT	2+89.65	0.00		
		POT	4+20.58	0.00		T=72 132.73 @ 9°26' = 130.93 ✓
						+5.90 @ LEV = 5.90 ✓
		M-2-C	4+26.48	18.09	R	
		M-2 D	5+66.41	0.08	R	T=72 49.88 @ 19°33' = 47.00 ✓
		POT	6+13.41	0.00		T=72 193.02 @ 2°25' = 192.83 ✓

Notes Ck'd by
Map No.
Office Work R. J. MITCHELL
Checked
Date

Survey of LAND MOVEMENT STUDY
JN 0021.82 Tape 196 Std 84 °F
Surveyed by LIND
Notes LIND Date 7-16-65
Indexed C. J. GALLI

LATIGO SHORES

F.B. 3251 PG. 15

F. B. 3251 PG. 16

N - LINE   July 14, 1965

On Line From	On Line To	Sight on Station	Plus	Offset Amt.	L./R.	Notes				
N-1	M-8	N-2	0+68.89	0.22	R	T = 72	- 6.83	Lev	=	6.83
		PoT	0+75.72	0.00		T = 72	75.73 @	Lev	=	75.72
		PoT	1+66.84	0.00		T = 72	95.80 @	17.58	=	91.12
		N-3	1+71.19	0.18	R		+ 4.35 @	Lev	=	4.35
		N-4A	2+92.90	0.08	R	T=80	128.26 @	10°37'	=	126.06
		N-5	4+19.03	3.63	R		- 3.18 @	Lev	=	- 3.18
		PoT	4+22.21	0.00		T=80	129.72 @	4°32'	=	129.31
		N-5A	5+24.04	30.03	R.	T=66	- 7.97 @	Lev	=	- 7.97
		PoT	5+32.01	0.00		T=66	110.10 @	4°10'	=	109.80
		N-6	6+09.81	2.91	R.	T=66	77.31 @	Lev	=	77.30

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O- LINE — JULY 16, 1965

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	OFFSET L/R	NOTES
O-1	M-8		0+00.00	0.00		O- LINE SEE FB 2341-95.99
		O-2	0+69.11	0.17	R	T=66 69.12 @ LEVEL = 69.11
		O-3	1+72.62	0.55	R	T=66 110.00 @ 19°46 = 103.51
		O-4	2+53.64	1.73	R	T=66 192.64 @ 16°40' = 184.53
POT #3	M-5		0+00.00			FB 3161-23
		P-2A	2+07.56	0.00		T=68 207.58 @ LEV 207.56
POT #4	M-5		0+00.00	0.00		FB 3161-24
		P-4A	2+50.53	0.00		T=80 250.54 LEV 250.53

Notes Ck'd by
Map No.
Office Work R. J. MITCHELL
Checked
Date

Survey of LAND MOVEMENT STUDY
JN 2021.62 Tape 196 Std 84 °F
Surveyed by LIND
Notes LIND Date 7-16-65
Indexed C. J. GALLI

LATIGO SHORES

F. B. 3251 PG. 17

"P" LINE

JULY 16, 1965

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L/R.	NOTES		
P-1	P-5		0+00.00	0.00		P-LINE SEE FB. 2347-101-103		
		POT #1	0+93.53	0.00		T=68	94.01 @ 5°43' = 93.53 ✓	
		POT #3	1+23.46	0.00		T=68	29.93 @ LEV = 29.93 ✓	
		P-2	1+83.87	0.00		T=68	61.53 @ 10°55' = 60.41 ✓	
		P-3	2+23.73	0.08	L.	T=80	42.65 @ 20°50' = 39.86 ✓	
		POT #4	2+55.85	0.00		T=80	35.85 @ 26°22' = 32.12 ✓	
		P-4	2+74.30	0.03	R.	T=80	21.18 @ 29°26' = 18.45 ✓	
		P-5	3+47.25	0.00		T=80	36.12 @ LEV =	36.12 ✓
							38.74 @ 18°04' =	36.83 ✓
								72.95 ✓

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Q - LINE July 16, 1965

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES
Q-1	POT		0+00.00	0.00		Q-LINE SEE F.B. 2341-103-107
		Q-2	1+54.38	0.10	R	T=80 154.38 LEV = 154.38
		Q-3	3+25.57	0.00		T=80 171.19 LEV = 171.19
		Q-4	4+47.48	3.85	R	T=80 - 45.85 LEV = 45.85
		POT	4+93.33	0.00		T=80 167.76 LEV = 167.76
		Q-5	5+51.42	4.48	R	T=80 + 58.09 LEV = 58.09
		Q-6	6+40.67	4.66	R	T=80 - 61.52 LEV = 61.52
		POT	7+02.19	0.00		T=70 208.88 LEV = 208.86
		Q-7	7+38.43	4.05	R	T=70 + 36.24 LEV 36.24
		Q-8	8+28.01	0.00		T=70 125.83 LEV 125.82
		Q-9	9+35.96	0.00		T=70 107.96 LEV = 107.95

Notes Ck'd by
Map No.
Office Work R. J. MITCHELL
Checked
Date

Survey of LIND TOWNSHEET
JN 0024.82 Tape 196 Std 84 °F
Surveyed by LIND
Notes LIND Date 7-16-65
Indexed G. J. GALLI

LATIGO SHORE

F.B. 3251 PG. 19

Notes Ck'd by	Survey of LATIGO SHORE LAND MOVEMENT	F. B. 3251 PG. 21
Map No.	JN 4021.82 Tape 201 Std 64 °F	
Office Work	Surveyed by LIND	
Checked	Notes LIND Date 9-21-65	
Date	Indexed C. J. GALLI OCT 1 '65	

JN 4021.82

LATIGO SHORES LAND MOVEMENT STUDY

HORIZONTAL MOVEMENT

OBSERVATIONS

SEPT 21 1965

LIND
DOVER
SWAN
ALMANZAN

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76F3099 CE # 310 3-61

M- LINE

9-21-65

On Line From	On Line To	Sight on Station	Pluss	Offset Amt	Offset L. R.	Notes.			
M-1	M-8		0+00.00			M- LINE SEE FB. 2341 - 93-95			
		M-2	3+27.83			T=74	251.61 @	1°13' =	251.53
			1 46.78			"	76.31 @	LEV =	76.30
									327.83
		M-2A	4+74.61	14.89	R.	T=74	66.45 @	LEV =	-66.45
			66.45						
		M-3	5+41.06	0.10	R	T=74	213.53 @	2°58' =	213.23
			1 18.88						
		M-4	6+59.94	0.00		T=76	119.18 @	4°00' =	118.88
			2 30.27						
		M-5	8+90.21	0.02	R	T=76	230.77 @	3°47 =	230.27
			6 47.19						
		M-6	15+37.40	0.00		T=76	200.76 @	3°47 =	200.31
			3 41.28			T=76	255.43 @	3°47 =	254.86
		M-7	18+78.68	0.00		T=80	192.39 @	3°31 =	192.02
									647.19
						T=80	48.92 @	LEV =	48.92
							292.58 @	2°10' =	292.36
									341.28

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76F309S CE # 310 8-61

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M-Z LINE 9-21-65

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L. R.	NOTES
R.P. #Z	R.P. #Y		0+00.00 / 1 10.49			M-Z LINE SEE FB 3161 15 & 16
		M-Z AA	1+10.49 / 1 33.05	0.00		T=80 110.49 @ LEV = 110.49
		M-Z B	2+43.54 / 49.10	3.88	R.	T=80 49.10 @ LEV = - 49.10
		POT	2+92.64 / 1 27.96	0.00		T=80 184.25 @ 8°39' = 182.15
		POT	4+20.60 / 5.89	0.00		T=84 129.80 @ 9°39' = 127.96
		M-Z C	4+26.49 / 1 39.94	18.11	R	T=84 5.89 @ LEV = + 5.89
		M-Z D	5+66.43 / 47.01	0.10	R	T=74 49.95 @ 19°43' = - 47.01
		P.O.T.	6+13.44	0.00		T=74 193.01 @ 2°20' = 192.84

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LAND MONUMENT
JN 0021.82 Tape 201 Std 84 °F
Surveyed by LIND
Notes LIND Date 9-21-65
Indexed C. J. GALLI

LOTTO SHORE

F.B. 3251 PG. 23

F.B. 3251 PG. 24

N- LINE

9-22-65

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L. R.		NOTES.	
N-1	M-8		0+00.00					
		N-2	0+68.91	0.22	R	T=74	6.82 @ LEV=	-6.82
		POT	0+75.73	0.00		T=74	75.73 @ LEV=	75.73
		POT	1+66.83	0.00		T=74	96.43 @ 19°07=	91.10
		N-3	1+71.17	0.18	R	T=74	4.34 @ LEV=	+4.34
		POT	2+84.14	0.00		T=78	119.12 @ 10°00'=	117.31
		N-4A	2+92.90	0.08	R.	T=78	8.76 @ LEV=	+8.76
		N-5	4+19.01	3.65	R.	T=78	3.18 @ LEV	-3.18
		POT	4+22.19	0.00		T=78	138.58 @ 4°58' =	138.05
		N-5A	5+24.00	30.03	R.	T=78	7.98 @ LEV =	7.98
		POT	5+31.98	0.00		T=78	110.06 @ 4°02' =	109.79
		N-6	6+09.29	2.93	R.	T=78	77.31 @ LEV=	77.31

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76F3098 CE # 310 3-61

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"O" LINE 9-22-65

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET R. L.	NOTES
O-1	M-8		0+00.00	0.00		"O" LINE SEE F.B. 2341, 95-99
		O-2	0+69.13	0.17	R.	T=80 69.13 @ LEV = 69.13
		O-3	1+72.62	0.57	R.	" 109.45 @ 19°00' = 103.49
		O-4	2+53.63	1.73	R.	" 192.19 @ 16°15 = 184.50
POT #3	M-5					F.B. 3161-23
		P-2A	2+07.54	0.00		T=76 207.53 @ LEV = 207.54
POT #4	M-5		0+00.00			
		P-4A	2+50.52	0.00		T=76 250.53 @ LEV = 250.52

Notes Ck'd by
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Office Work
Checked
Date

Survey of LAND MOVEMENT STUDY
JN 002182 Tape 201 Std 84 °F
Surveyed by LIND
Notes LIND Date 9-22-65
Indexed C. J. GALLI

LATIGO SHORE

F.B. 3251 PG. 15

F. B. 3251 PG. 26

"P" LINE

9-23-65

On Line From	On Line To	Sight on Station	Pluss	Offset Amt	Offset R./L.		Notes
P-1	P-5		0+00.00				
		Pot #1	0+93.53	0.00		T= 76	94.01 @ 5°45 = 93.53
		Pot #3	1+23.46	0.00		T= 76	29.93 @ Lev = 29.93
		P-2	1+83.87	0.00		T= 76	61.14 @ 8°51' = 60.41
		P-3	2+23.75	0.08	L.	T= 76	42.32 @ 19°32 = 39.88
		Pot #4	2+55.84	0.00		T= 76	35.65 @ 25°50' = 32.09
		P-4	2+74.31	0.03	R	T=76	21.40 @ 30°21' = 18.47
		P-5	3+47.22	0.00		T=76 "	36.08 @ Lev = 36.08 38.72 @ 17°56' = 36.83 72.91

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Q- LINE — SEPT. 23, 1965

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFF SET AMT	L/R	NOTES.
Q-1	POT		0+00.00	0.00		Q-LINE SEE F.B. 2341, 103-107
		Q-2	1+54.39	0.10	R	T= 76 154.40 LEV = 154.39
		Q-3	3+25.60	0.00		T= 70 171.23 LEV = 171.21
		Q-4	4+47.49	3.85	R	T= 70 - = 45.55
		POT	4+93.04	0.00		T= 70 167.46 LEV = 167.44
		Q-5	5+51.46	4.48	R	+ 58.42
		Q-6	6+40.74	4.68	R.	- 65.09
		POT	7+05.83	0.00		T=70 212.81 LEV = 212.79
		Q-7	7+38.47	4.05	R.	+ 32.64
		Q-8	8+28.10	0.00		T=70 122.28 LEV = 122.27
		Q-9	9+36.05	0.00		T=70 107.96 LEV = 107.95

Notes Ck'd by
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Office Work
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Date

Survey of Movement Study
JN 002182 Tape 201 Std 84 °F
Surveyed by Lind
Notes Lind Date 9-23-65
Indexed G. J. Galli

LAMBDO SAUCE

F. B. 3251 PG. 27

LATIGO SHORE

Notes Ck'd by	Survey of LAND MOVEMENT
Map No.	JN 0021.82 Tape 201 Std 84 °F
Office Work	Surveyed by G.K. LIND
Checked	Notes R. DOVER Date 10-26-65
Date	Indexed C. J. GALLI NOV 4 '65

F. B 3251 PG. 29

J.N. 0021.82

LATIGO SHORE LAND MOVEMENT STUDY

HORIZONTAL MOVEMENT

OBSERVATIONS

OCTOBER 25 1965

LIND
DOVER
SWAN
ALMANZAN

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76F309S CE # 310 3-61

M-LINE DATE OCT. 25 1965

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	AMT.	L/R	NOTES		
M-1	M-8		0+00			M-LINE	SEE F.B. 2341-93-95	
						T=84°	271.27 @ 1°-32' =	271.17
		M-2	3+27.84			"	56.67 @ Level =	56.67
			146.81					
		M-2A	4+74.65	14.88	R.			
			66.43					327.84
		M-3	5+41.08	0.10	R	T=84°	213.61 @ 3°-23 =	213.24
			118.87					
		M-4	6+59.95	0.00		T=84°	119.21 @ 4°-13' =	118.87
			230.30					
		M-5	8+90.25	0.02	R.	T=78°	230.90 @ 4°-05 =	230.30
			647.23					
		M-6	15+37.48	0.00		T=82°	191.47 @ 3°-47' =	191.05
						T=82°	195.89 @ 3°-12' =	195.58
			341.31			T=82°	261.14 @ 3°-40 =	260.60
								647.23
		M-7	18+78.79	0.00		T=82°	53.03 @ Level =	53.03
						T=82°	288.42 @ 1°-45 =	228.28
								341.31

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M-2 LINE DATE OCTOBER 26

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L/R	NOTES
R.P. #Z	R.P. #Y		0+00.00			M-2 Line See F.B. 3161 15&16
		M-2AA	1+10.50 1 33.08	0.00		T=80 110.50 @ Level = 110.50
		M-2B	2+43.58 49.10	3.87	R	T=82° 49.10 @ Level = 49.10
		P.O.T.	2+92.68 127.96	0.00		T=82° 184.21 @ 8°-31 = 182.18
		P.O.T.	4+20.64 5.90	0.00		T=82° 129.47 @ 8°-46 = 127.96
		M-2C	4+26.54 139.90	18.12	R	T=82° 5.90 @ Level = 5.90
		M-2D	5+66.44 47.00	0.10	R	T=82° 49.63 @ 18°-44' = 47.00 "back from P.O.T 6+13.44"
		P.O.T	6+13.44	0.00		T=82° 193.00 @ 2°-35' = 192.80

LATIGO SHORE

Notes Ck'd by
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Office Work
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Survey of Lamp Movement
JN 0021.82 Tape 210 Std 84 °F
Surveyed by L.K. Lind
Notes R. Dover Date 10-26-65
Indexed E. J. GALLI

F.B. 3251 PG. 31

F. B. 3051 PG. 32

N-LINE

DATE October, 26 1965

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	OFFSET L/R		NOTES
N-1	M-8		0+00.00				
		N-2	0+68.91 6.81	0.24	R	T=82°	6.81 @ Level = -6.81 back from P.O.T. Sta. 75.72
		P.O.T.	0+75.72 91.14	0.00		T=82°	75.72 @ Level = 75.72
		P.D.T.	1+66.86 4.33 ~~112.97~~	0.00		T=82°	96.20 @ 18°-40 = 91.14
		N-3	1+71.19 112.97	0.18	R	T=82°	4.33 @ Level = 4.33
		P.O.T	2+84.16 8.76	0.00		T=82°	119.08 @ 9°-55' = 117.30
		N-4A	2+92.92 126.10	0.08	R	T=82°	8.76 @ Level = 8.76
		N-5	4+19.02 3.18	3.65	R	T=84°	3.18 @ Level = -3.18
		P.O.T.	4+22.20 101.81	0.00		T=84°	138.59 @ 5°-07' = 138.04
		N-5A	5+24.01 7.98	30.01	R	T=84°	7.98 @ Level = -7.98
		P.O.T.	5+31.99 77.30	0.00		T=84°	110.00 @ 3°-31 = 109.79
		N-6	6+09.29	2.92	R	T=84°	77.30 @ Level = 77.30

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O-LINE DATE OCTOBER 26, 1965

ON LINE FROM	ON LINE TO	SIGHT ON LINE	PLUSS	OFFSET AMT.	OFFSET L/R	NOTES
O-1	M-8		0+00.00	0.00		O.-LINE See F.B. 2341-95-99
		O-2	0+69.15	0.18	R	T=84° 69.15 @ Level = 69.15
		O-3	103.50 1+72.65	0.55	R	T=82° 109.99 @ 19°-47 = 103.50
		O-4	80.99 2+53.64	1.73	R	T=82° 192.61 @ 16°-42 = 184.49
		P.O.T #3 - P-2A LINE				See F.B. 3161, 18 & 23
P.O.T #3	M-5	P-2A	2+07.55	0.00		T=74° 207.56 @ Level = 207.55
		P.O.T #4 - P-4A LINE				See F.B. 3161, 18 & 24
P.O.T #4	M-5					
		P-4A	2+50.54	0.00		T=80° 250.55 @ Level = 250.54

LATIGO SHORE

Notes Ck'd by
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Date

Survey of GAND MOVEMENT
JN 1021.82 Tape 201 Std 84 °F
Surveyed by C.K. Lino
Notes R. Dover Date 10-27-65
Indexed C. J. GALLI

F.B. 3251 Pg. 33

F. B. 3251 PG. 34

"P" LINE — DATE OCTOBER 27 1965

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L/R	NOTES
"P"-1	"P"-5		0+00.00	0.00		"P" LINE See F.B. 2541. 101-103
		P.O.T #1	0+93.53 29.91	0.00		T= 74° 94.00 @ 5°-37 = 93.53
		P.O.T. #3	1+23.44 60.41	0.00		T= 74° 29.91 @ Level = 29.91
		P-2	1+83.85 39.88	0.00		T= 74° 61.41 @ 10°-21 = 60.41
		P-3	2+23.73 32.11	0.08	L	T= 80° 42.73 @ 21°-05 = 39.88
		P.O.T #4	2+55.84 18.47	0.00		T= 80° 34.88 @ 23°-00' = 32.11
		P-4	2+74.31 72.91	0.03	R	T= 80° 21.03 @ 28°-33' = 18.47
		P-5	3+47.22	0.00		T= 78° 36.09 @ Level = 39.09 T= 78° 38.63 @ 17°-35' = 36.82 72.91

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"Q"-LINE DATE OCTOBER 27, 1965

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	L/R	NOTES
Q-1	P.O.T.		0+00.00	0.00		Q LINE SEE F.B. 2341, 103-107
		Q-2	1+54.41 171.20	0.10	R	T=80° 62.90 @ Level = 62.90 T=80° 91.51 @ Level = 91.51 154.41
		Q-3	3+25.61 121.89	0.00		T=80° 171.20 @ Level = 171.20
		Q-4	4+47.50 46.02	3.87	R	T=80° 46.02 @ Level = 46.02 back from P.O.T. = 4+93.52
		P.O.T.	4+93.52 57.91	0.00		T=80° 167.91 @ Level =
		Q-5	5+51.43 89.30	4.50	R	T=82° 57.91 @ Level = +57.91
		Q-6	6+40.73 65.48	4.71	R	T=80° 65.48 @ Level = -65.48 back from P.O.T. = 7+06.21
		P.O.T.	7+06.21 32.26	0.00		T=82° 212.69 @ Level = 212.69
		Q-7	7+38.47 89.62	4.06	R	T=82° 32.26 @ Level = +32.26
		Q-8	8+28.09 107.96	0.00		T=80° 121.88 @ Level = 121.88
		Q-9	9+36.05	0.00		T=80° 107.96 @ Level = 107.96

LATIGO SHORE

Notes Ck'd by
Map No.
Office Work
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Date

Survey of LAND MOVEMENT
JN 0021.82 Tape 201 Std 84 °F
Surveyed by C.K. LIND
Notes R. Dover Date 10-27-65
Indexed C. J. GALLI

F.B. 3251 PG. 35

LATIGO SHORE

Notes Ck'd by	Survey of LAND MOVEMENT
Map No.	JN 0021.82 Tape 201 Std 84 °F
Office Work	Surveyed by C.K. LIND
Checked	Notes DOVER Date 11-29-65
Date	Indexed C. J. GALLI DEC 2 '65

F. B. 3251 PG. 37

JN 0021.82

LATIGO SHORE LAND MOVEMENT STUDY

HORIZONTAL MOVEMENT

OBSERVATIONS

NOVEMBER 29, 1965

LIND
DOVER
SWAN
ALMANZAN

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76F3095 CE # 310 3-61

M-LINE DATE Nov. 29, 1965

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	AMT	L/R	NOTES
M-1	M-8		0+00			M-LINE SEE F.B. 2341-93
		M-2	3+27.86	0.00		T=70° 271.30 @ 1°-35' = 271.18
			146.79			T= 70° 56.69 @ Level = 56.68
						327.86
		M-2A	4+74.65	14.92	R	T= 70° 66.39 @ Level = 66.39
			66.39			
		M-3	5+41.04	0.11	R	T= 70° 213.58 @ 3°-24' = 213.18
			118.89			
		M-4	6+59.93	0.00		T= 72° 119.34 @ 4°-55' = 118.89
			230.26			
		M-5	8+90.19	0.02	R	T = 72° 230.82 @ 3°-55' = 230.26
			647.17			
		M-6	15+37.36	0.00		T= 72° 191.58 @ 4°-15' = 191.04
						" " 195.82 @ 3°-01' = 195.53
			341.32			" " 261.08 @ 3°-23 = 260.60
						647.17
		M-7	18+78.68	0.00		T= 72° 287.15 @ 1°-51 = 286.98
						54.34 @ Level = 54.34
						341.32

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M-2 LINE — DATE NOVEMBER 29, 1965

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES
R.P. # Z	R.P. # Y		0+00.00			M-2 LINE SEE F.B. 3161-15 & 16
		M-2AA	1+10.49 133.04	0.00		T= 74° 110.50 @ Level = 110.49
		M-2B	2+43.53 49.13	3.89	R.	T= 74° 49.13 @ Level = 49.13
		P.O.T.	2+92.66 127.97	0.00		T= 74° 184.39 @ 8°-53 = 182.17
		P.O.T.	4+20.63 5.86	0.00		T= 84° 129.52 @ 8°-52 = 127.97
		M-2C	4+26.49 139.96	18.11	R	T= 84° 5.68 @ Level = 5.68
		M-2D	5+66.45 47.06	0.12	R	T= 78° 49.71 @ 18°-45' = 47.06 back from 6+13.51
		P.O.T.	6+13.51	0.00		T= 78° 193.01 @ 2°-00 = 192.88

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LAND MOVEMENT
JN 00 21 82 Tape 201 Std 84 °F
Surveyed by C.K. CINO
Notes DOVER Date 11-29-65
Indexed C. J. GALLI

LATIGO SHORE

F. B. 3251 PG. 39

F. B. 2251 PG. 40

N-LINE

DATE NOVEMBER 29, 1965

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R		NOTES
N-1	N-8		0+00.00				
		N-2	0+68.93 6.85	0.24	R	T=70°	6.85 @ Level = 6.85
		P.O.T.	0+75.78 91.08	0.06		T=70°	75.79 @ Level = 75.78
		P.O.T.	1+66.86 4.34	0.06.		T=70°	96.38 @ 19°-04' = 91.08
		N-3	1+71.20 12.94	0.19	R	T=70°	4.34 @ Level = 4.34
		P.O.T.	2+84.14 8.78	0.00		T=70°	119.05 @ 9°-52' = 117.28
		N-4A	2+92.92 ~~126.06~~	0.13	R	T=70°	8.78 @ Level = 8.78
		N-5	4+18.98 3.22	3.65	R	T=70°	3.22 @ Level = 3.22
		P.O.T.	4+22.20 109.80	0.00		T=70°	138.53 @ 4°-41 = 138.06
		N-5A	5+24.00 7.98	30.01	R	T=70°	7.98 @ Level = 7.98
		P.O.T.	5+31.98 ~~77.32~~	0.40		T=70°	110.13 @ 4°-28 = 109.78
		N-6	6+09.30	2.96	R	T=70°	77.33 @ Level = 77.32

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Notes Ck'd by
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Checked
Date

Survey of LAND MOVEMENT
JN 0021.82 Tape 201 Std 84 °F
Surveyed by C.R. Lind
Notes DOVER Date 11-30-65
Indexed C. J. GALLI

F.B. 3251 PG. 41

O-LINE DATE NOVEMBER 30, 1965

ON LINE FROM	ON LINE TO	SIGHT ON LINE	PLUSS	OFFSET AMT	OFFSET L/R	NOTES
O-1	M-8		0+00			O-LINE SEE F.B. 2341-93-99
		O-2	0+69.15	0.19	R	T=66° 69.16 @ Level = 69.15
		O-3	103.46 1+72.61	0.56	R	T=70° 109.93 @ 19°-44' = 103.46
		O-4	81.02 2+53.63	1.72	R	T=70° 192.27 @ 16°-21' = 184.48
P.O.T. #3	M-5	P.O.T #3 - P-2A LINE				SEE F.B. 3161 - 18 & 23
		P-2A	2+07.54	0.02	L	T=70° 207.56 @ Level = 207.54
P.O.T #4	M-5	P.O.T. #4 - P-4A LINE				SEE F.B. 3161 18 & 24
		P-4A	2+50.51	0.00		T=70° 250.53 @ Level = 250.51

P- LINE

DATE NOVEMBER 30 1965

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L/R	NOTES
P-1	P-5		0+00			"P" LINE SEE F.B. 2341-101-103
		P.O.T #1	0+93.53	0.00		T=70° 93.80 @ 4°-15' = 93.53
			29.93			
		P.O.T #3	1+23.46	0.00		T=70° 29.93 @ Level = 29.93
			60.40			
		P-2	1+83.86	1.00		T=70° 61.38 @ 10°-13' = 60.40
			39.86			
		P-3	2+23.72	0.08	L	T=74° 42.20 @ 19°-09' = 39.86
			32.11			
		P.O.T. #4	2+55.83	0.00		T=70° 35.79 @ 26°-12' = 32.11
			18.46			
		P-4	2+74.29	0.03	R	T=70° 21.67 @ 31°-36' = 18.46
			72.90			
		P-5	3+47.19	0.00		T=70° 36.12 @ Level = 36.12
						T=70° 38.75 @ 18°-20' = 36.78
						72.90

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76F3095 CE # 310 3-61

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Q-LINE DATE NOVEMBER 30 1965

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET AMT	L/R	NOTES
Q-1	P.O.T.		0+00.00			"Q"-LINE SEE F.B. 2341-103-107
		Q-2	1+54.40	0.10	R	T=70° 53.38 @ Level = 53.38
			171.18			T=70° 9.54 @ Level = 9.54
						T=70° 91.49 @ Level = 91.48
						154.40
		Q-3	3+25.58	0.00		T=70° 171.20 @ Level = 171.18
			121.89			
		Q-4	4+47.47	3.86	R	T=70° 46.20 @ Level = 46.20
			46.20			
		P.O.T	4+93.67	0.00		T=70° 168.11 @ Level = 168.09
			57.74			
		Q-5	5+51.41	4.49	R	T=70° 57.75 @ Level = 57.74
			89.31			
		Q-6	6+40.72	4.69	R	T=70° 67.93 @ Level = 67.92
			67.92			
		P.O.T	7+08.64	0.00		T=70° 214.99 @ Level = 214.97
			29.79			
		Q-7	7+38.43	4.06	R	T=70° 29.79 @ Level = 29.79
			89.62			
		Q-8	8+28.05	0.00		119.42 @ Level = 119.41
			107.94			
		Q-9	9+35.99	0.00		107.95 @ Level = 107.94

LATIGO SHORE

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LAND MOVEMENT
JN 0021.82 Tape 201 Std 84 °F
Surveyed by C.K. LIND
Notes DOVER Date 11-30-65
Indexed G. J. [illegible]

F.B. 3251 PG. 43

Notes Ck'd by	Survey of LANGO SHORE
Map No.	JN 0021.82 Tape 201 Std 84 °F
Office Work	Surveyed by LIND
Checked	Notes DOVER Date 1-7-66
Date	Indexed E. J. GALLI JAN. 24 '66

F. B. 3251 PG. 45

JN 0021.82

LATIGO SHORE LAND MOVEMENT STUDY

HORIZONTAL MOVEMENT

OBSERVATIONS

JANUARY 7, 1966

LIND
DOVER
SWANN
ALMANZAN

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76F309S CE #310 6-62

M-LINE DATE JANUARY 7 1966

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	AMT.	L/R		NOTES
M-1	M-8		0+00			M-LINE	SEE F.B. 2341-93
		M-2	3+27.82	0.00		T=78°	271.25 @ 1°-21' = 271.16
			146.78			T=78°	56.66 @ Level = 56.66
							327.82
		M-2A	4+74.60	14.93	R	T=78°	66.42 @ Level = -66.42
			66.42				
		M-3	5+41.02	0.10	R	T=78°	213.59 @ 3°-23' = 213.20
			118.89				
		M-4	6+59.91	0.00		T=78°	119.24 @ 4°-25' = 118.89
			230.28				
		M-5	8+90.19	0.02	R	T=78°	230.88 @ 4°-05' = 230.28
			647.19				
		M-6	15+37.38	0.03	R	T=78°	191.47 @ 3°-44' = 191.05
			341.31			T=74°	195.78 @ 2°-43' = 195.56
						T=74°	261.11 @ 3°-34' = 260.58
							647.19
		M-7	18+78.69	0.00		T=72°	287.57 @ 1°-36' = 287.44
							53.87 @ Level = 53.87
							341.31

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M-2 LINE — DATE JANUARY 10 1966

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	L/R		NOTES
R.P. #Z	R.P. #Y		0+00			M-2 LINE	SEE F.B. 3161-15&16
			1 10.49				
		M-2AA	1+10.49	0.00		T=56°	110.51@Level= 110.49
			1 32.99				
		M-2B	2+43.48	3.89	R	T=60°	49.16@Level= -49.16
			49 16				
		P.O.T.	2+92.64	0.00		T=60°	184.37@8°-50 = 182.15
			1 27 96				
		P.O.T.	4+20.60	0.00		T=62°	129.78@9°-34' = 127.96
			5 87				
		M-2C	4+26.47	18.18	R	T=62°	5.87@Level = +5.87
			1 39.94				
		M-2D	5+66.41	0.12	R	T=62°	49.83@19°-17 = -47.03
			47.03				back from 6+13.44
		P.O.T.	6+13.44	0.00		T=62°	192.91@1°-09' = 192.84

LATIGO SHORE

Notes Ck'd by
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Office Work
Checked
Date

Survey of LAND MOVEMENT
JN 0021.82 Tape 201 Std 84 °F
Surveyed by C.K. Lind
Notes DOVER Date 1-10-66
Indexed C. J. GALLI 1-11-66

F.B. 3251 PG. 47

F. B. 3751 PG. 48

N-LINE

DATE JANUARY 10 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L/R		NOTES
N-1	M-8		0+00				
		N-2	0+68.93	0.24	R	T= 74°	6.86 @ LEVEL = −6.86
		P.O.T	0+75.79	0.00		T= 74°	75.79 @ LEVEL = 75.79
		P.O.T.	1+66.86	0.00		T= 64°	96.21 @ 18°-48 = 91.07
			1 02.26				
		N-3	1+71.19	0.19	R	T= 64°	4.33 @ LEVEL = +4.33
		P.O.T.	2+84.14	0.00		T= 60°	119.25 @ 10°-22' = 117.28
			1 21.73				
		N-4A	2+92.92	0.14	R	T= 60°	8.78 @ LEVEL = +8.78
			~~1 26.40~~				
		N-5	4+19.02	3.65	R	T= 65°	3.18 @ LEVEL = −3.18
		P.O.T.	4+22.20	0.00		T= 65°	138.56 @ 4°-46 = 138.06
			1 04.98				
		N-5A	5+24.00	30.01	R.	T= 65°	7.98 @ LEVEL = −7.98
		P.O.T.	5+31.98	0.00		T= 64°	110.03 @ 3°-40 = 109.78
			85.30				
		N-6	6+09.30	2.96		T= 64°	77.33 @ LEVEL = 77.32

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O-LINE

DATE JANUARY 10 1966

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET AMT	L/R	NOTES	
O-1	M-8		0+00			O-LINE	SEE F.B. 2341-95-99
			69.16				
		O-2	0+69.16	0.20	R	T= 60°	69.17 @ LEVEL = 69.16
			1 03 46				
		O-3	1+72.62	0.57	R	T= 60°	109.30 @ 18°-47' = 103.46
			81 04				
		O-4	2+53.66	1.73	R	T= 60°	192.23 @ 16°-16 = 184.51
P.O.T #3	M-5	P.O.T #3 - P-2A LINE				SEE F.B. 3161 - 18 & 23	
		P-2A	2+07.56	0.02	L	T= 60°	207.59 @ LEVEL = 207.56
P.O.T #4	M-5	P.O.T. #4 - P-4A LINE					
		P-4A	2+50.52	0.00		T= 54°	250.57 LEVEL = 250.52

LATIGO SHORE

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LAND MOVEMENT
JN 0021.82 Tape 201 Std 84 °F
Surveyed by C. K. LINO
Notes DOVER Date 1-10-66
Indexed G. J. GALLI

F.B. 3251 PG. 49

P-LINE

DATE JANUARY 10 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L/R		NOTES
P-1	P-5		0+00			"P" LINE	SEE F.B. 2341 101-103
	✓	P.O.T #1	0+93.53	0.00		T=60°	93.93@5°-14' = 93.53
	✓	P.O.T. #3	1+23.46	0.00		T=60°	29.93@LEVEL = 29.93
	✓	P-2	1+83.86	0.00		T=60°	61.26@9°-33' = 60.40
		P-3	2+22.73	0.08	L	T=60°	42.35@19°-37' = 39.87
	✓	P.O.T. #4	2+55.83	0.00		T=54°	34.90@23°-03' = 32.10
		P-4	2+74.28	0.03	R	T=54°	21.35@30°-14' = 18.45
	✓	P-5	3+47.19	0.00		T=54°	36.12 LEVEL = 36.12
						T=54°	39.05 19°-33 = 36.79
							72.91

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Q-LINE — DATE JANUARY 11 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R		NOTES
Q-1	P.O.T		0+00			Q-LINE	SEE F.B. 2341-103-107
			154.39				
		Q-2	1+54.39	0.10	R	T=56°	53.37 @ LEVEL = 53.36
						T=56°	9.54 @ LEVEL = 9.54
						T=56°	91.50 @ LEVEL = 91.49
			171.18				154.39
		Q-3	3+25.57	0.00	R	T=56°	171.21 @ LEVEL = 171.18
			21.89				
		Q-4	4+47.46	3.89		T=62°	46.27 @ LEVEL = 46.26
		P.O.T.	4+93.70	0.00		T=58°	168.19 @ LEVEL = 168.13
			103.94				
		Q-5	5+51.40	4.51	R	T=62°	57.71 @ LEVEL = 57.70
			89.30				
		Q-6	6+40.70	4.73	R	T=60°	67.90 @ LEVEL = 67.89
		P.O.T.	7+08.59	0.00		T=62°	214.92 @ LEVEL = 214.89
			97.71				
		Q-7	7+38.41	4.10	R	T=60°	29.83 @ LEVEL = 29.82
			89.62				
		Q-8	8+28.03	0.01	R	T=60°	119.46 @ LEVEL = 119.44
			107.94				
		Q-9	9+35.97	0.00		T=60°	107.96 @ LEVEL 107.94

Notes Ck'd by ____
Map No. ____
Office Work ____
Checked ____
Date ____

Survey of LATIGO MOVEMENT
JN 2001 B2 Tape 201 Std. 86 °F
Surveyed by C.K. Lipp
Notes Lopez Date 1-11-66
Indexed G. J. GALLI

LATIGO MOVEMENT

F.B. 3841 PG. 77

LATIGO SHORE

Notes Ck'd by	Survey of LAND MOVEMENT
Map No.	JN 0021.82 Tape 201 Std. 84 °F
Office Work	Surveyed by C. K. LIND
Checked	Notes DOVER Date 2-23-66
Date	Indexed G. J. GALLI FEB 24 '68

F. B. 9251 PG. 53

J.N. 0021.82

LATIGO SHORE LAND MOVEMENT STUDY

HORIZONTAL MOVEMENT

OBSERVATIONS

FEBRUARY 1966

C. K LIND
DOVER
SWANN
ALMANZAN

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76F3095 CE # 310 3-61

M-LINE DATE FEB. 17, 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	L/R	NOTES	
M-1	M-8		0+00			M-LINE	SEE F.B. 2341-93
		M-2	3+27.83	0+00		T=62°	271.30@1°-38' = 271.15
			146.80			T=62°	56.69@LEVEL = 56.68
							327.83
		M-2A	4+74.63	14.94	R	T=64°	-66.41@LEVEL = -66.40
			66.40				
		M-3	5+41.03	0.11	R	T=64°	213.64@3°-32 = 213.20
			118.87				
		M-4	6+59.90	0.00		T=64°	119.14@3°-42' = 118.87
			230.28				
		M-5	8+90.18	0.02	R	T=64°	230.90@4°-05' = 230.28
			647.20				
		M-6	15+37.38	0.00		T=64°	191.46@3°-38' = 191.06
						T=68°	195.92@3°-25' = 195.55
			341.31			T=68°	261.05@3°-17' = 260.59
							647.20
		M-7	18+78.69	0.02	R	T=68	286.85@1°-42 = 286.70
						T=68	54.60@LEVEL = 54.60
							341.31

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M-2 LINE — DATE FEB. 17, 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R		NOTES
R.P. #Z	R.P. #Y		0+00			M-2 LINE	SEE F.B. 3161 - 15 & 16
			110.50				
		M-2AA	1+10.50	0+00		T=64°	110.51 @ LEVEL = 110.50
			133.02				
		M-2B	2+43.52	3.89	R.	T=68°	-49.74 @ LEVEL = -49.73
			49.73				
		P.O.T.	2+93.25	0+00		T=66°	184.95 @ 8°-48' = 182.75
			127.40				
		P.O.T.	4+20.65	0+00		T=68°	129.09 @ 9°-16 = 127.40
			5.87				
		M-2C	4+26.52	18.18	R	T=68°	5.87 @ LEVEL = 5.87
			139.95				
		M-2D	5+66.47	0.13	R	T=64°	-49.63 @ 18°-37 = -47.02
			47.02				
		P.O.T.	6+13.49	0.00		T=68°	192.92 @ 1°-27 = 192.84

Notes Ck'd by ____
Map No. ____
Office Work ____
Checked ____
Date ____

Survey of LANDO MOVEMENT
JN 0021 Tape 201 Std. 84 °F
Surveyed by C.K. LIND
Notes DOVER Date 2-66
Indexed G. L. GALL

LATIGO SHORE

F.B. 3251 PG. 55

F. B. 3251 PG. 56

N-LINE

DATE FEB. 17, 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R		NOTES
N-1	M-8		0+00 68.93			N-LINE	
		N-2	0+68.93	0.24	R	T= 64°	6.86 LEVEL = 6.86
		P.O.T.	0+75.79	0+00		T= 64°	75.80 LEVEL = 75.69
		P.O.T.	1+66.85	0+00		T= 66°	96.15@ 18°-42' = 91.06
		N-3	1+71.19 102.26	0.19	R	T= 68°	4.34 @ LEVEL = 4.34
		P.O.T	2+84.15	0+00		T= 70°	119.00@ 9°-40' = 117.30
		N-4A	2+92.93 121.74	0.15	R.	T= 70°	8.78@ LEVEL = 8.78
		N-5	4+19.03 126.10	3.65	R	T= 70°	3.18@ LEVEL = 3.18
		P.O.T.	4+22.21	0.00		T= 70°	138.53@4°-39' = 138.06
		N-5A	5+24.02 104.99	30.03	R	T= 70°	-8.38 @ LEVEL = 8.38
		P.O.T.	5+32.40	0.00		T= 70°	110.38@ 3°-15' = 110.19
		N-6	6+09.34 85.32	2.97	R	T= 70°	76.95@ LEVEL = 76.94

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O-LINE — DATE FEB. 18, 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R		NOTES
O-1	M-8		0+00			O-LINE	SEE F.B. 2341-95-99
		O-2	0+69.16 (69.19)	0.22	R	T=60°	69.17@ LEVEL = 69.16
		O-3	1+72.63 (103.47)	0.57	R	T=64°	110.07@ 19°-56' = 103.47
		O-4	2+53.66 (81.03)	1.75	R	T=64°	192.13@ 16°-11 = 184.50
FROM	TO		P.O.T #3 - P 2A LINE				
P.O.T #3	M-5	P-2A	2+07.57	0.01	L	T=64°	207.60@ LEVEL = 207.57
FROM	TO		P.O.T #4 P4A-LINE				
P.O.T #4	M-5	P-4A	2+50.53	0.00		T=60°	250.57@ LEVEL = 250.53

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of 4 AND MOVEMENT
JN 0021.32 Tape 201 Std 84 °F
Surveyed by C. K. LIND
Notes DAVER Date 2-66
Indexed G. L. GALLI

LATIGO SHORE

F.B. 3241 PG. 57

P- LINE

DATE FEB. 18, 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R		NOTES
P-1	P-5		0+00			P-LINE	SEE F.B. 2341-101-103
		P.O.T. #1	0+93.53	0.00		T= 64°	93.86 @ 4°-45 = 93.53
		P.O.T. #3	1+23.46	0.00		T= 64°	29.93 @ LEVEL = 29.93
		P-2	183.86 1+83.86	0.00		T= 64°	61.37 @ 10°-10' = 60.40
		P-3	~~39.90~~ 2+23.76	0.08	L	T= 64°	42.73 @ 20°-57' = 39.90
		P.O.T. #4	2+55.87	0.00		T= 64°	35.32 @ 24°-38' = 32.11
		P-4	50.56 2+74.32	0.03	R	T= 60°	21.54 @ 31°-04' = 18.45
		P-5	~~72.88~~ 3+47.20	0.00		T= 60° T= 60°	36.13 @ LEVEL = 36.12 38.82 @ 18°-43' = 36.76 72.88

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76F3098 CE # 310 9-61

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Q-LINE — DATE FEB. 18, 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES	NOTES
Q-1	P.O.T.		0+00			Q-LINE	SEE F.B 2341-103-107
			154.40				
		Q-2	1+54.40	0.10	R	T=60°	53.38 @ LEVEL = 53.37
						T=60°	101.05 @ " = 101.03
							154.40
			171.16				
		Q-3	3+25.56	0.00		T=62°	171.18 @ LEVEL = 171.16
			121.92				
		Q-4	4+47.48	3.88	R	T=62°	− 46.28 @ LEVEL = 46.27
		P.O.T.	4+93.75	0.00		T=62°	168.21 @ LEVEL = 168.19
			103.95				
		Q-5	5+51.43	4.51	R	T=62°	+ 57.68 @ LEVEL = 57.67
			89.30				
		Q-6	6+40.73	4.72	R	T=64°	− 67.91 @ LEVEL = 67.90
		P.O.T.	7+08.63	0.00		T=64°	214.91 @ LEVEL = 214.88
			97.72				
		Q-7	7+38.45	4.10	R	T=64°	+ 29.82 @ LEVEL = 29.82
			89.61				
		Q-8	8+28.06	0.00		T=64°	119.45 @ LEVEL = 119.43
			107.95				
		Q-9	9+36.01	0.00		T=64°	107.96 @ LEVEL = 107.95

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LAND MOVEMENT
JN 0021 R2 Tape 201 Std. 84 °F
Surveyed by C. K. LINO
Notes DOVER Date 2-66
Indexed C. J. GALL

LATIGO SHORE

F.B. 3251 PG. 59

Notes Ck'd by	Survey of LATIGO SHORE LAND MOVEMENT	F. B. 3251 PG. 61
Map No.	JN 0021.82 Tape 201 Std 85 °F	
Office Work	Surveyed by C. K. LIND	
Checked	Notes R. DOVER Date 4-22-66	
Date	Indexed [illegible] NOV 3 '66	

J.N. 0021.82

LATIGO SHORE LAND MOVEMENT STUDY

HORIZONTAL MOVEMENT

OBSERVATIONS

APRIL 1966

C.K. LIND
DOVER
SWANN
ALMANZAN

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76F309S CE # 310 3-61

F. B. 3251 PG. 62

M LINE — DATE APRIL 22 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R		
M-1	M-8		0+00			M-LINE	SEE F.B. 2341-93
		M-2	3+27.81	0.00		T= 66° 271.26@ 1°-16 =	271.16
						T= 66° 56.66@ LEVEL =	56.65
							327.81
		M-2A	4+74.62	14.99	R	T= 66° - 66.39 @ LEVEL	- 66.38
		M-3	5+41.00	0.12	R	T= 66° 213.61@ 3°-27' =	213.19
		M-4	6+59.87	0.00		T= 66° 119.15 @ 3°-50' =	118.87
		M-5	8+90.12	0.02	R	T= 66° 230.85@ 4°-02' =	230.25
		M-6	15+37.29	0.00		T= 66° 191.57 @ 4°-14' =	191.03
						T= 66° 195.80 @ 2°-51' =	195.54
						T= 66° 261.12 @ 3°-31' =	260.60
							647.17
		M-7	18+78.65	0.00		T= 66° 286.76@ 1°-29' =	286.63
						T= 66° 54.74@ LEVEL =	54.73
							341.36

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M-2 LINE — DATE APRIL 22 1966

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET AMT	L/R	NOTES
R.P. #Z	R.P. #Y		0+00	0.00		M-2 LINE SEE F.B. 3161 - 15 & 16
		M-2AA	1+10.50	0.00		T=66° 110.52 @ LEVEL = 110.50
		M-2B	2+43.43	4.02	R	NOTE: THIS MON. HIT & OR DISTURBED T=66° -49.87 @ LEVEL = -49.86
		P.O.T.	2+93.29	0.00		T=66° 185.09 @ 9°-00 = 182.79
		P.O.T.	4+20.69	0.00		T=66° 129.39 @ 10°-01 = 127.40
		M-2C	4+26.55	18.29	R	T=66° +5.86 @ LEVEL = 5.86
		M-2D	5+66.47	0.16	R	T=68° -49.15 @ 16°-49 = 47.05
		P.O.T.	6+13.52	0.00		T=66° 192.96 @ 1°-52' = 192.83

LATIGO SHORE

Notes Ck'd by
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Office Work
Checked
Date

Survey of Land Movement
JN 0021.82 Tape 201 Std 84 °F
Surveyed by C.K. Lino
Notes R. Dover Date 4-22-66
Indexed J. J. GALLI

F.B. 3251 PG. 63

N-LINE — DATE: APRIL 22 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES
N-1	M-8		0+00	0.00		N-LINE
		N-2	0+68.96	0.23	R	T= 62° -6.74@ LEVEL= - 6.74
		P.O.T.	0+75.70	0.00		T= 62° 75.71@ LEVEL= 75.70
		P.O.T	1+66.84	0.00		T= 64° 96.75@ 19°35'= 91.14
		N-3	1+71.19	0.20	R	T= 64° +4.35@LEVEL= 4.35
		P.O.T	2+84.15	0.00		T= 66° 119.30@ 10°27'= 117.31
		N-4A	2+92.95	0.18	R	T= 66° 8.80@LEVEL = 8.80
		N-5	4+19.04	3.68	R	T= 66° -3.18@LEVEL = 3.18
		P.O.T.	4+22.22	0.00		T= 66° 138.62@ 5°00'= 138.07
		N-5H	5+24.02	30.05	R	T= 66° - 8.39 @LEVEL = - 8.39
		P.O.T.	5+32.41	0.00		T= 66° 110.50@ 4°11'= 110.19
		N-6	6+09.33	3.05	R	T=66° 76.93@ LEVEL = 76.92

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76F309S CE # 310 3-61

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O-LINE DATE APRIL 25 1966

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET AMT	L/R	NOTES
O-1	M-8		0+00	0.00		"O"-LINE SEE F.B. 2341-95-99
		O-2	0+69.20	0.22	R	T= 66° 69.21 @ LEVEL = 69.20
		O-3	1+72.66	0.59	R	T= 66° 109.68 @ 19°-21' = 103.46
		O-4	2+53.68	1.80	R	T= 66° 192.53 @ 16°-37' = 184.48
FROM P.O.T #3	TO M-5	P-2A	P.O.T #3 - P-2A LINE 2+07.55	0.01	L	T= 70° 207.57 @ LEVEL = 207.55
FROM P.O.T #4	TO M-5	P-4A	P.O.T #4 P-4A-LINE 2+50.50	0.00		T= 70° 250.52 @ LEVEL 250.50

LATIGO SHORE

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LAND MOVEMENT
JN 0021.92 Tape 201 Std 84 °F
Surveyed by C.K. LIND
Notes R. DOVER Date 4-25-66
Indexed C. J. GALLI

F.B. 3251 PG. 65

"P"-LINE

DATE APRIL 25, 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L/R	NOTES
P-1	P-5		0+00	0.00		P-LINE SEE F.B. 2341- 101-103
		P.O.T #1	0+93.52	0.00		T=70° 93.94@ 5°-22' = 93.52
		P.O.T. #3	1+23.45	0.00		T=70° 29.93@ LEVEL = 29.93
		P-2	1+8385	0.00		T=70° 61.38@ 10°-12' = 60.40
		P-3	2+23.76	0.07	L	T=70° 42.65@ 20°-39' = 39.91
		P.O.T #4	2+55.84	0.00		T=70° 35.34@ 24°-47 = 32.08
		P-4	2+74.28	0.03	R	T=70° 21.63@ 31°-29 = 18.44
		P-5	3+47.17	0.00		T=70° 36.11 @LEVEL = 36.11 T=70° 38.61@ 17-42 = 36.78 72.89

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Q-LINE DATE APRIL 25, 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES
Q-1	P.O.T		0+00	0.00		Q-LINE SEE F.B. 2341 - 103-107
		Q-2	1+54.36	0.10	R	T= 70° 154.37 @ LEVEL = 154.36
		Q-3	3+25.53	0.00		T= 70° 171.19 @ LEVEL = 171.17
		Q-4	4+47.45	3.89	R	T= 70° - 46.19 @ LEVEL = - 46.19
		P.O.T	4+93.64	0.00		T= 70° 168.13 @ LEVEL = 168.11
		Q-5	5+51.38	4.52	R	T= 70° + 57.75 @ LEVEL = + 57.74
		Q-6	6+40.69	4.73		
		Q-7	7+38.40	0.00	*	* NOTE THIS POINT REMOVED BY CONSTRUCTION RESET BY PLUSS FROM Q-6 T= 70° 97.72 @ LEVEL = 97.71
		Q-8	8+28.00	0.00		T= 70° 89.61 @ LEVEL = 89.60
		Q-9	9+35.95	0.00		T= 70° 107.96 @ LEVEL = 107.95

LATIGO SHORE

Notes Ck'd by
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Office Work
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Date

Survey of LAND MOVEMENT
JN 002162 Tape 201 Std 84 °F
Surveyed by C. R. LIND
Notes F. DOVER Date 4-25-66
Indexed C. J. GALLI

F.B. 3251 PG. 67

LATIGO SHORE

Notes Ck'd by	Survey of LAND MOVEMENT	F. B. 3251 PG. 69
Map. No.	JN 002182 Tape 201 Std 84 °F	
Office Work	Surveyed by C.K. LUND	
Checked	Notes R. DOVER Date 7-5-66	
Date	Indexed C. J. GALLI	

J.N. 002182

LATIGO SHORE LAND MOVEMENT STUDY

HORIZONTAL MOVEMENT

OBSERVATIONS

JULY 5, 1966

R. DOVER
DUERBECK
ALMANZAN
PETERSON

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76F3095 CE # 310 3-61

F. B. 3251 PG. 70

M-LINE — DATE JULY 5, 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	L/R	
M-1	M-8		0+00.00	0.00		M-LINE SEE F.B. 2341-93
		M-2	3+27.86 146.78	0.00		T=72° 56.68@ LEVEL = 56.68 T=72° 271.27@ 1°-19' = 271.18 327.86
		M-2A	4+74.64 66.41	14.90	R	T=72° −66.41 LEVEL = 66.41
		M-3	5+41.05 1 18.90	0.09	R	T=72° 213.53@3°-07' = 213.19
		M-4	6+59.95 2 30.27	0.00		T=72° 119.20@4°-01' = 118.90
		M-5	8+90.22 6 47.15	0.03	R	T=74° 230.91@ 4°-12' = 230.27
		M-6	15+37.37	0.00		T=78° 191.56@ 4°-10' = 191.04
			3 41.26			" 195.74@ 2° 34' = 195.53 " 261.13@ 3° 40' = 260.58 647.15
		M-7	18+78.63 27.92	0.02	L	T=76° 54.85 LEVEL = 54.85 " 286.45@ 0°-40' = 286.41 341.26
		M-7A	19+06.55 927.42	0.00		T=76° 27.92 LEVEL = 27.92
		M-8	28+33.97	0.00		T=76° 927.47 LEVEL = 927.42

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M-2 LINE DATE JULY 5, 1966

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET AMT	L/R	
R.P. #Z	R.P. #Y		0+00.00	0.00		M-2 LINE SEE F.B. 3161-15 & 16
			110.51			
	#X	M-2AA	1+10.51	0.00		T=72° 110.52 LEVEL = 110.51
			132.94			
		M-2B	2+43.45	4.06	R	T=76° -49.94 LEVEL = 49.94
			49.94			
		P.O.T.	2+93.39	0.00		T=76° 185.09@8°-51' = 182.88
			127.31			
		P.O.T.	4+20.70	0.00		T=78° 129.20@ 9°-47' = 127.31
			5.85			
		M-2C	4+26.55	18.08	R	T=78° 5.85 LEVEL = 5.85
			139.97			
		M-2D	5+66.52	0.19	R	T=78° -49.37@17°-44' = -47.02
			47.02			
		R.P. #Y	6+13.54	0.00		T 78° 192.94@1°-45' = 192.84
			1138.75			
		M-7A	17+52.29	0.00		T=76° 1152.81 LEVEL = 1152.75
			736.50			
		R.P. #X	24+88.79	0.0.0		T=78 722.54 LEVEL = 722.50

Notes Ck'd by
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Office Work
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Date

Survey of LAND MOVEMENT STUDY
JN 2721.82 Tape 201 Std 84 °F
Surveyed by C.K. LIND
Notes R. DOVER Date 7-6-66
Indexed C. J. GALLI

LATIGO SHORE

F.B. 3251 PG. 71

N-LINE — DATE: JULY 5, 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L/R	NOTES
N-1	M-8		0+00.00	0.00		N-LINE
			68.97			
		N-2	0+68.97	0.23	R	T = 76° - 6.73 LEVEL = -6.73
			6.73			
		P.O.T.	0+75.70	0.00		T = 76° 75.70 LEVEL = 75.70
			91.13			
		P.O.T	1+66.83	0.00		T = 76° 96.84 @ 19°45' = 91.13
			4.37			
		N-3	1+71.20	0.21		T = 76° + 4.37 LEVEL = 4.37
			112.98			
		P.O.T.	2+84.18	0.00		T = 76° 119.32 @ 10°24' = 117.35
			8.81			
		N-4A	2+92.99	0.18		T = 76° 8.81 LEVEL = 8.81
			126.08			
		N-5	4+19.07	3.71	R	T = 76 - 3.18 LEVEL = -3.18
			3.18			
		P.O.T	4+22.25	0.00		T = 76° 138.63 @ 5°07' = 138.07
			101.77			
		N-5A	5+24.02	30.08	R	T = 76° - 8.40 LEVEL = -8.40
			8.40			
		P.O.T.	5+32.42	0.00		T = 76° 110.51 @ 4°25' = 110.17
			76.92			
		N-6	6+09.34	3.10	R	T = 76° 76.92 LEVEL = 76.92

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O-LINE

DATE JULY 5, 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	L/R	NOTES
O-1	M-8		0+00.00	0.00		"O"-LINE SEE F.B. 2341-95-99
		O-2	0+69.22 (69.22)	0.21	R	T= 76° 69.22 LEVEL = 69.22
		O-3	1+72.65 (103.43)	~~0.78~~ 0.57	R	T= 76° 109.64 @ 19°-22' = 103.43
		O-4	2+53.71 (81.06)	1.73	R	T= 76° 192.23 @ 16°-19' = 184.49
FROM	TO		P-2A LINE			
P.O.T #3	M-5	P-2A	2+07.54	0.00		T= 74° 207.56 LEVEL = 207.54
			P-4A LINE			
FROM	TO					
P.O.T #4	M-5	P-4A	2+50.54	0.00		T= 82° 250.54 LEVEL = 250.54

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LINO MOVEMENT STUDY
JN 0021.82 Tape 201 Std 84 °F
Surveyed by C. K. LINO
Notes R. DOVER Date 7-5-66
Indexed C. J. GALLI

LATIGO SHORE

F.B. 3251 PG. 73

F. B. 3251 PG. 74

P-LINE

DATE JULY 5, 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	L/R	NOTES
P-1	P-5		0+00.00	0.00		"R" LINE SEE F.B. 2341-101-103
			93.52			
		P.O.T #1	0+93.52	0.00		T= 74° 93.97 @ 5°-32 = 93.52
			29.93			
		P.O.T #3	1+23.45	0.00		T= 74° 29.93 @ LEVEL = 29.93
			60.40			
		P-2	1+83.85	0.00		T= 74° 60.75 @ 6°-09' = 60.40
			39.90			
		P-3	2+23.75	0.07	L	T= 74° 42.62 @ 20°34 = 39.90
			32.10			
		P.O.T. #4	2+55.85	0.00		T= 74 35.78 @ 26°-11 = 32.10
			18.45			
		P-4	2+74.30	0.04	R	T= 74° 21.72 @ 31°50' = 18.45
			72.89			
		P-5	3+47.19	0.00		T= 74° 36.10 LEVEL = 36.10
						" " " 38.53 @ 17°-10 36.79
						72.89

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76F309S CE # 310 3-61

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Do not extend this side of this line.

Q-LINE DATE JULY 5, 1966

ON LINE FROM	ON LINE TO	SIGHT ON STA.	PLUSS	OFFSET AMT.	L/R	NOTES
Q-1	P.O.T.		0+00.00	0.00		"Q" LINE SEE F.B. 2341-103-107
			154.39			
		Q-2	1+54.39	0.09	R	T=80° 154.39 LEVEL = 154.39
			171.18			
		Q-3	3+25.57	0.00		T=80° 171.18 LEVEL = 171.18
			121.93			
		Q-4	4+47.50	3.88	R	T=80° -46.26 LEVEL = -46.26
			46.26			
		P.O.T	4+93.76	0.00		T=80° 168.19 LEVEL = 168.19
			57.69			
		Q-5	5+51.45	4.53	R	T=80° +57.69 LEVEL = +57.69
			89.28			
		Q-6	6+40.73	4.75	R	T=80° -97.75 LEVEL = -97.75
			97.75			
		Q-7	7+38.48	0.03	R	T=80° 244.73 LEVEL = 244.72
			89.59			
		Q-8	8+28.07	0.00		T=78° 89.59 LEVEL = 89.59
			107.95			
		Q-9	9+36.02	0.00		T=78° 107.95 LEVEL = 107.95

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LATIGO SHORE GAND MOVEMENT STUDY
JN 0021.82 Tape 201 Std 84 °F
Surveyed by C.K. LIND
Notes R. DOVER Date 7-5-66
Indexed C. J. GALLI

F.B. ~~3152~~ 3251 PG. 75

LATIGO SHORE

Notes Ck'd by	Survey of Land Movement Study
Map No.	JN 0021/82 Tape 201 Std 84 °F
Office Work	Surveyed by C.K. Lind
Checked	Notes R. Dover Date 7-11-66
Date	Indexed C. J. GALLI AUG 1 6 '66

F. B. 3251 Pg. 77

J.N. 0021.82

ZONE 7 TIE

M-7A & R.P. "X"

PARTY

LIND
DOVER
DUERBECK
ALMANZAN
PETERSON

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76F309S CE # 310 3-61

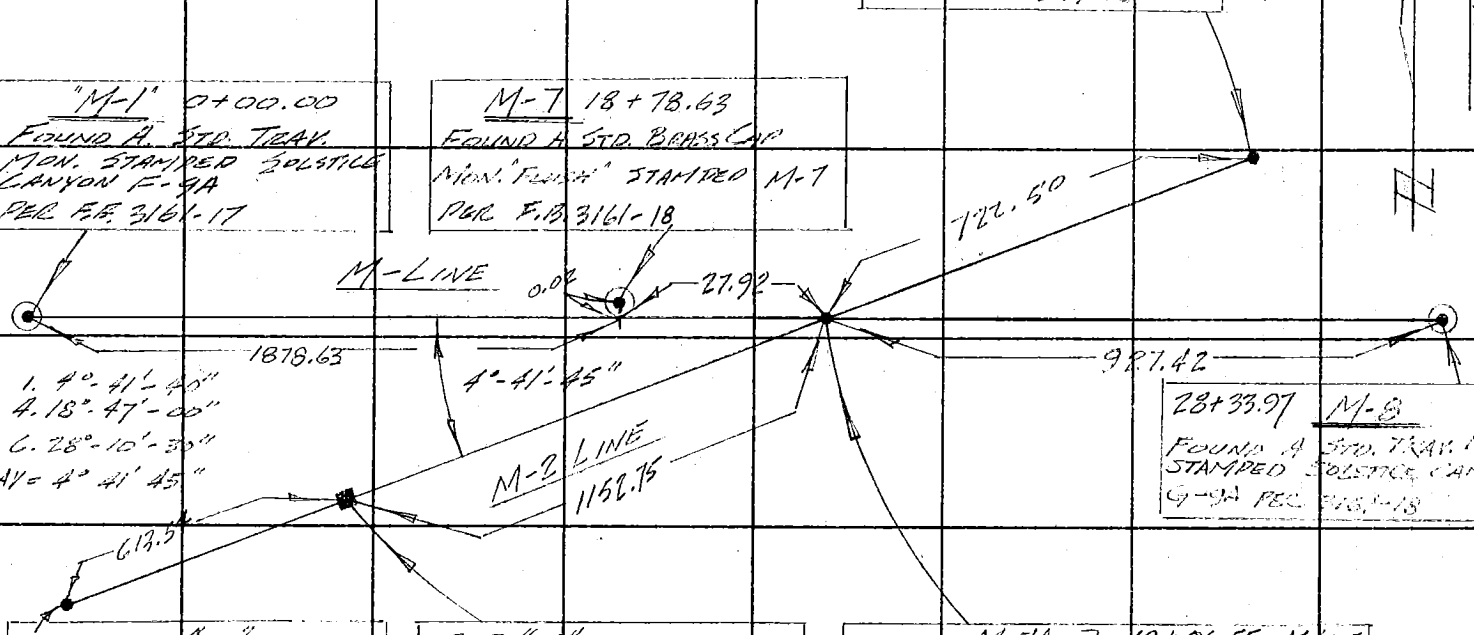
F.B. 3251 PG. 78

1152.81 LEVEL T=76° = 1152.75
722.54 LEVEL T=76° = 722.50
27.92 LEVEL T=76° = 27.92
927.47 LEVEL T=76° = 927.42
SEE F.B 3251-70 & 71 FOR ADDITIONAL CHAINING

24+88.79 R.P. "X"
FOUND A Bt. Spk W&T
FLUSH PER 3161-16

"M-1" 0+00.00
FOUND A STD. TRAV.
MON. STAMPED SOLSTICE
CANYON F-9A
PER F.B. 3161-17

M-7 18+78.63
FOUND A STD. BRASS CAP
MON. "FLUSH" STAMPED M-7
PER F.B. 3161-18



28+33.97 M-8
FOUND A STD. TRAV. MON.
STAMPED SOLSTICE CANYON
G-9A PER F.B. 3161-18

R.P. "Z" 0+00.00
FOUND A 1" I.P. C.E. TAG
ON 0.5'
PER F.B. 3161-15

R.P. "Y" 6+13.54
FOUND A 1x2 STAKE & NAIL
ON A RIDGE FLUSH
PER F.B. 3161-15

M-7A } 19+06.55 M-LINE
17+52.29 M2-LINE
SET 1" I.P. CONC. PLUG & C.E. TAG
INTER. ESTABLISHED BY INTER.

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LATIGO SHORE

Notes Ck'd by	Survey of LAND MOVEMENT
Map No.	JN 0021.82 Tape 184 Std 84 °F
Office Work	Surveyed by C. K. LIND
Checked	Notes R. DOVER Date 11-15-66
Date	Indexed C. J. GALLI NOV 25 '68

F. B. 3251 PG. 79

J.N. 0021.82

LATIGO SHORE LAND MOVEMENT STUDY

HORIZONTAL MOVEMENT OBSERVATIONS

PARTY

NOVEMBER 15, 1966

C. K. LIND
R. DOVER
R. SWANN
B JACKSON
T. W. PETERSON

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76F3095 CE # 310 8-61

M-LINE

DATE NOVEMBER 15 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	L/R	NOTE	
M-1	M-8		0+00.00	0.00		M-LINE SEE F.B. 2341-93	FOR CONTROL
		M-2	3+27.85	0.00		T=74° 271.28 @ 1°-25 =	271.18
			146.80			T= 74° 56.67 @ LEVEL	56.67
							327.85
		M-2A	4+74.65	14.97	R	T= 74° (LESS) 66.40 LEVEL=	− 66.40
			66.40				
		M-3	5+41.05	0.11	R	T= 74° 213.52@ 3°-04′ =	213.20
			118.89				
		M-4	6+59.94	0.00		T= 74° 119.35@ 4°-57′ =	118.89
			230.28				
		M-5	8+90.22	0.03	R	T= 74 230.92@ 4°-12′ =	230.28
			647.17				
		M-6	15+37.39	0.00		T= 76° 191.35@ 3°-21 =	191.01
						T= 76° 196.00 @ 3°-45′=	195.57
			341.22			T= 76° 262.21 @ 3°-18′ =	261.76
						T= 76° (LESS) −	648.34
							1.17
							647.17
		M-7	18+78.61			T= 72° 54.90@ LEVEL=	54.90
						T= 72° 286.40@ 1°-05′=	286.32
							341.22

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M-2 LINE

DATE NOVEMBER 15, 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L/R	NOTES	
R.P.#Z	R.P.#Y		0+00.00	0.00		M-2 LINE SEE F.B. 3161 - 15 & 16	
			110.51				
		M-2AA	1+10.51	0.00		T= 70° 110.52@ LEVEL=	110.51
			132.99				
		M-2B	2+43.50	4.07	R	T= 70° - 49.95@ LEVEL=	-49.95
			49.95				
		P.O.T.	2+93.45	0.00		T= 70° 184.98@ 9° 06' =	182.94
			127.29				
		P.O.T.	4+20.74	0.00		T= 70° 128.89@ 9°-00' =	127.29
			5.85				
		M-2C	4+26.59	18.24	R	T = 70° 5.85@ LEVEL=	5.85
			139.88				
		M-2D	5+66.47	0.21	R	T = 70° (LESS) -49.43@ 17°-51' =	-47.05
			47.05				
		R.P."Y"	6+13.52	0.00		T = 70° 192.87@ 1°-32' =	192.78

Notes Ck'd by
Map No.
Office Work
Checked
Date

JN 0021.82 Tape 164 Std 84 °F
Surveyed by C.K. LIND
Notes R. DOVER Date 11-15-66
Indexed C. J. GALLI

Survey of LAND MOVEMENT
LATIGO SHORE

F.B. 3251 PG. 01

N- LINE

DATE NOVEMBER 15, 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L/R	NOTES
N-1	M-8		0+00.00	0.00		N-LINE
		N-2	0+68.96	0.25	R	T=68° -6.75 LEVEL = -6.75
			6.75			
		P.O.T.	0+75.71	0.00		T=68° 75.72 @ LEVEL = 75.71
			91.10			
		P.O.T.	1+66.81	0.00		T=68° 96.46 @ 19°-10' = 91.10
			4.36			
		N-3	1+71.17	0.18	R	T=68° 4.36 LEVEL = 4.36
			112.96			
		P.O.T	2+84.13	0.00		T=68° 118.70 @ 8°-42' = 117.32
			8.82			
		N-4A	2+92.95	0.22	R	T=68° 8.82 LEVEL = 8.82
			126.09			
		N-5	4+19.04	3.71	R	T=68° -3.18 LEVEL = -3.18
			3.18			
		P.O.T.	4+22.22	0.00		T=68° 138.58 @ 4°-45' = 138.09
			101.81			
		N-5A	5+24.03	30.03	R	T=68° -8.39 LEVEL = -8.39
			8.39			
		P.O.T.	5+32.42	0.00		T=68° 110.31 @ 2°-29' = 110.20
			76.91			
		N-6	6+09.33	2.98		T=68° 76.91 @ LEVEL = 76.91

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O-LINE

DATE NOVEMBER 16, 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L/R	NOTES	
O-1	M-8		0+00.00	0.00		O-LINE SEE F.B. 2341-95-99	
		O-2	0+69.25 103.44	0.22	R	T=68° 69.26 @ LEVEL=	69.25
		O-3	1+72.69 80.99	0.55	R	T=72° 109.82 @ 19°-37' =	103.44
		O-4	2+53.68	1.74	R	T=72° 192.36 @ 16° 29 =	184.43
FROM	TO		P-2A LINE				
P.O.T. #3	M-5	P-2A	2+07.55	0.02	L	T= 66° 207.57 @ LEVEL=	207.55
FROM	TO		P-4A LINE				
P.O.T #4	M-5	P-4A	2+50.52	0.00		T= 76° 250.53 @ LEVEL=	250.52

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LAND MOVEMENT
JN 0021.82 Tape 184 Std 84 °F
Surveyed by C.K. LIND
Notes R. DOVER Date 11-16-66
Indexed C.K. GILL

LATIGO SHORE

F.B. 3251 PG. 83

P-LINE

DATE NOVEMBER 16, 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L/R	NOTES
P-1	P-5		0+00.00	0.00		P-LINE SEE F.B. 2341-101-103
		P.O.T. #1	0+93.53	0.00		T= 66° 93.96 @ 5°-22 = 93.53
		P.O.T. #3	29.93 1+23.46	0.00		T= 66° 29.93 @ LEVEL = 29.93
		P-2	60.39 1+83.85	0.00		T= 68° 60.60 @ 4°-40' = 60.39
		P-3	39.91 2+23.76	0.08	L	T= 68° 42.68 @ 20°-45' = 39.91
		P.O.T. #4	32.10 2+55.86	0.00		T= 68° 34.85 @ 22°-55' = 32.10
		P-4	18.47 2+74.33	0.03	R	T= 74° 21.15 @ 29°-09 = 18.47
		P-5	72.90 3+47.23	0.00		T= 74°
						38.58 @ 17°-30' = 36.79 36.11 @ LEVEL = 36.11 72.90

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Q-LINE — DATE NOVEMBER 16, 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R		NOTES	
Q-1	P.O.T.		0+00.00	0.00		Q-LINE SEE	F.B. 2341 -	103-107
		Q-2	1+54.38	0.10	R	T=70° 54.69	@ LEVEL	= 54.68
			171.18			T=70° 99.71	@ LEVEL	= 99.70
								154.38
		Q-3	3+25.56	0.00		T=70° 171.20	@ LEVEL	= 171.18
			121.94					
		Q-4	4+47.50	3.89	R	T=70° = 47.22	LEVEL	= 47.22
			47.22					
		P.O.T.	4+94.72	0.00		T=70° 169.18	@ LEVEL	= 169.16
			56.72					
		Q-5	5+51.44	4.55	R	T=70° + 56.73	LEVEL	= + 56.72
			89.27					
		Q-6	6+40.71	4.78	R	T=70° = 97.78	LEVEL	= = 97.77
			97.77					
		Q-7	7+38.48	0.05	R	T=70° 243.78	@ LEVEL	= 243.76
			89.59					
		Q-8	8+28.07	0.00		T=70° 89.60	@ LEVEL	= 89.59
			107.99					
		Q-9	9+36.06	0.00		T=70° 108.00	@ LEVEL	= 107.99

Notes Ck'd by ____
Map No. ____
Office Work ____
Checked ____
Date ____

Survey of LAND MOVEMENT
JN 0021.82 Tape 184 Std 84 °F
Surveyed by C.K. LIND
Notes R. DOVER Date 11-16-66
Indexed C. J. GALLI

LATIGO SHORE

F.B. 3251 PG. 85

LATIGO SHORE

Notes Ck'd by	Survey of LAND MOVEMENT
Map No.	JN 0021.82 Tape 184 Std 84 °F
Office Work	Surveyed by C. K. LIND
Checked	Notes ROBT. DOVER Date 15 DEC 66
Date	Indexed G. J. GALLI DEC 27 '66

F. B. 3251 PG. 87

J.N. 0021.82

LATIGO SHORE LAND MOVEMENT STUDY

HORIZONTAL MOVEMENT OBSERVATIONS

PARTY

C. K. LIND
R. DOVER
R. SWANN
B. JACKSON

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M-LINE DATE DECEMBER 15, 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L/R	NOTES
M-1	M-8		0+00.00	0.00		M-LINE SEE F.B. 2341-93 FOR CONTROL
		M-2	3+27.85	0.00		T=68° 271.27 @ 1°-14' = 271.18
			146.80			T=68° 56.68 @ LEVEL = 56.67
						327.85
		M-2A	4+74.65	14.97	R	T=70° (LESS) 66.41 @ LEVEL = -66.40
			66.40			
		M-3	5+41.05	0.11	R	T=70° 213.58 @ 3°-20' = 213.20
			118.88			
		M-4	6+59.93	0.03	L	T=70° 119.25 @ 4° 29' = 118.88
			230.30			
		M-5	8+90.23	0.00		T=70° 230.83 @ 3°-48' = 230.30
			647.12			
		M-6	15+37.35	0.00		T=70° (FOR ALL DIST. BELOW)
						191.36 @ 3°-22' = 191.01
						196.02 @ 3°-53' = 195.55
			341.30			260.93 @ 2° 58' = 260.56
						TOTAL DIST = 647.12
		M-7	18+78.65	0.02	L	T=70° 286.36 @ 1°-29' = 286.23
						T=70° 55.08 @ LEVEL = 56.07
						341.30

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M-2 LINE DATE DECEMBER 15, 1966

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	L/R	NOTES	
R.P.#Z	R.P.#Y		0+00.00	0.00		M-2 LINE SEE F.B. 3161 - 15 & 16	
		M-2AA	1+10.51	0.00		T= 70° 110.52 @ LEVEL =	110.51
		M-2B	132.97 2+43.48	4.07	R	T= 70° (LESS) - 49.98 @ LEVEL =	-49.97
		P.O.T.	49.97 2+93.45	0.00		T= 70° 185.21 @ 8°-56' =	182.94
		P.O.T.	127.28 4+20.73	0.00		T= 70° 128.85 @ 8°-55' =	127.28
		M-2C	5.86 4+26.59	18.30	R	T= 70° 5.85 @ LEVEL =	5.85
		M-2D	139.91 5+66.50	0.20	R	T = 70° (LESS) - 49.25 @ 17°-17' =	-47.03
	RPY	T(Pot)	47.03 6+13.53	0.00		T= 70° 192.80 @ 1°-35' =	192.80

LATIGO SHORE
Survey of LAND MOVEMENT
JN 0021.82 Tape 184 Std 84 °F
Surveyed by C. K. LIND
Notes R. DOVER Date 15 DEC 66
Indexed G. J. GALLI

Notes Ck'd by
Map No.
Office Work
Checked
Date

F.B. 3251 PG. 89

F. B. 3251 PG. 90

N-LINE

DATE DECEMBER, 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES	
N-1	M-8		0+00.00	0.00		N LINE	
		N-2	0+68.97 6.79	0.25	R	T= 72° 6.79 @ LEVEL =	-6.79
		P.O.T.	0+75.76 91.07	0.00		T= 72° 75.77 @ LEVEL =	75.76
		P.O.T.	1+66.83 4.35	0.00		T= 76° 96.16 @ 18°-42' =	91.07
		N-3	1+71.18 113.00	0.18	R	T= 76° 4.35 @ LEVEL =	4.35
		P.O.T.	2+84.18 8.84	0.00		T= 76° 119.17 @ 10°-00 =	117.35
		N-4A	2+93.02 126.08	0.26	R	T= 76° 8.84 @ LEVEL =	8.84
		N-5	4+19.10 3.17	3.71	R	T= 76° -3.17 @ LEVEL =	-3.17
		P.O.T.	4+22.27 101.82	0.00		T= 76° 138.52 @ 4°-27' =	138.09
		N-5A	5+24.09 8.39	30.06	R	T= 76° -8.39 @ LEVEL =	-8.39
		P.O.T	5+32.48 76.94	0.00		T= 78° 110.41 @ 3°-25' =	110.21
		N-6	6+09.42	3.03	R.	T= 76° 76.95 @ LEVEL =	76.94

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O-LINE

DATE DECEMBER 19, 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L/R	NOTES	
O-1	M-8		0+00.00	0.00		O-LINE SEE F.B. 2341 - 95-99	
		O-2	0+69.26 103.44	0.24	R	T=64° 69.27 LEVEL =	69.26
		O-3	1+72.70 81.02	0.57	R	T=64° 110.43@ 20°-29' =	103.44
		O-4	2+53.72	1.79	R	T=64° 192.40@ 16°-30' =	192.46
FROM	TO		P-2A LINE				
P.O.T #3	M-5	P-2A	2+07.56	0.04	L	T=76° 207.57@ LEVEL =	207.56
FROM	TO		P-4A LINE				
P.O.T #4	M-5	P-4A	2+50.52	0.00		T=72° 250.54 @ LEVEL =	250.52

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LAND MOVEMENT
JN 0021 Tape 184 Std 84 °F
Surveyed by C.K. LIND
Notes R. DOVER Date 19 DEC 66
Indexed C.J. CALLI

LATIGO SHORE

F.B. 3251 PG. 91

P-LINE

DATE DECEMBER 19, 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L/R	NOTES	
P-1	P-5		0 + 00.00	0.00		P-LINE SEE F.B. 2341 101-103	
		P.O.T. # 1	0 + 93.53	0.00		T= 68° 93.95 @ 5°-17′ =	93.53
		P.O.T. # 3	1 + 23.48 29.95	0.00		T= 68° 29.94 @ LEVEL =	29.94
		P-2	1 + 83.88 60.40	0.00		T= 76° 61.31 @ 9°-45′ =	60.40
		P-3	2 + 23.79 39.91	0.08	L	T= 72° 42.66 @ 20° 41′ =	39.91
		P.O.T. # 4	2 + 55.87 32.08	0.00		T= 72° 35.33 @ 24°-46′ =	32.08
		P-4	2 + 74.34 18.47	0.03	R	T= 72° 21.78 @ 32°-00′ =	18.47
		P-5	3 + 47.25 72.91	0.00		T= 72°	
						36.14 LEVEL =	36.14
						38.75 @ 18-23 =	36.77
						TOTAL =	72.91

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Q-LINE DATE DECEMBER 19, 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES
Q-1	P.O.T.		0+00.00	0.00		Q-LINE SEE F.B. 2341 103-107
		Q-2	1+54.40	0.10	R	T= 74° 54.69 @ LEVEL = 54.69
			171.21			T= 74° 99.72 @ LEVEL = 99.71
						154.40
		Q-3	3+25.61	0.00		T= 70° 171.23 @ LEVEL = 171.21
			121.91			
		Q-4	4+47.52	3.91	R	T= 74° - 47.24 @ LEVEL = -47.24
			47.24			
		P.O.T	4+94.76	0.00		T= 74° 169.16 @ LEVEL = 169.15
			56.72			
		Q-5	5+51.48	4.55	R	T= 74° +56.72 @ LEVEL = +56.72
			89.30			
		Q-6	6+40.78	4.78	R	T= 74° -97.75 @ LEVEL = -97.74
			97.74			
		Q-7	7+38.52	0.05	R	T= 74° 243.78 @ LEVEL = 243.76
			89.56			
		Q-8	8+28.08	0.00		T= 74° 89.57 @ LEVEL = 89.56
			107.96			
		Q-9	9+36.04	0.00		T= 74° 107.97 @ LEVEL = 107.96

LATIGO SHORE

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LAND MOVEMENT
JN0021.82 Tape 184 Std 84 °F
Surveyed by C. K. LIND
Notes R. DOVER Date 19 DEC 66
Indexed G. J. GALLI

F.B. 3251 PG. 93

LATIGO SHORE

Notes Ck'd by	Survey of SUBSIDENCE STUDY
Map No.	JN 0021.82 Tape 184 Std 84 °F
Office Work	Surveyed by LIND
Checked	Notes LIND Date 1-12-67
Date	Indexed G. A. GALLI JAN 19 '67

F. B. 3251 PG. 95

J.N. 0021.82

LATIGO SHORE LAND MOVEMENT

STUDY

HORIZONTAL MOVEMENT

OBSERVATIONS

1-12-67

LIND

JONES

SWANN

JACKSON

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76F309S CE#310 1-65

F.B. 3251 PG. 96

M- LINE

1-12-67

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	L/R	NOTES
M-1	M-8		0+00.00	0.00		SEE FB 2341 FOR CONTROL
		M-2	3+27.82	0.00		T=72 271.25 @ 1°24' = 271.15 ✓
			146.86			" 56.67 @ LEV = 56.67
		M-2A	4+74.68	15.01	R.	327.82 ✓
			66.34			T=72 66.35 @ LEV = 66.34 ✓
		M-3	5+41.02	0.14	R.	T=72 213.56 @ 3°13' = 213.20 ✓
			118.90			
		M-4	6+59.92	0.00		T=70 119.36 @ 5°00' = 118.90 ✓
			230.27			
		M-5	8+90.19	0.05	R	T=72 230.89 @ 4°07' = 230.27 ✓
			647.19			
		M-6	15+37.38	0.00		T=72 191.46 @ 3°47' = 191.03 ✓
						T=72 195.89 @ 3°20' = 195.56 ✓
			341.26			T=72 261.05 @ 3°16' = 260.60 ✓
						647.19 ✓
		M-7	18+78.64	0.03	L.	T=72 55.30 @ LEV = 55.30 ✓
						T=70 286.01 @ 0°44' = 285.96 ✓
						341.26 ✓

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M-2 LINE 1-13-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	L/R	NOTES
R.P. 2	R.P. 4		0+00.00	0.00		SEE F.B. 3161-15 & 16 FOR CONTROL
		M-2 AA	1+10.51	0.00		T=66 110.52 @ LEV = 110.51 ✓
			132.96			
		M-2 B	2+43.47	4.05	R	T=66 49.98 @ LEV = 49.97 ✓
			49.97			
		POT	2+93.44	0.00		T=66 185.17 @ 8° 53' = 182.93 ✓
			127.25			
		POT	4+20.69	0.00		T=66 129.05 @ 9° 32' = 127.25 ✓
			5.87			
		M-2 C	4+26.56	18.22	R	T=66 5.87 @ LEV = 5.87 ✓
			139.89			
		M-2 D	5+66.45	0.20	R	T=66 192.95 @ 2° 18' = 192.77 ✓
(R.P.-4)			47.01			
		POT	6+13.46	0.00		T=66 49.40 @ 17° 52' = 47.01 ✓

Notes Ck'd by
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Office Work
Checked
Date

Survey of MOVEMENT STUDY
JN 007187 Tape 184 Std 84 °F
Surveyed by LINO
Notes LINO Date 1-13-67
Indexed G. J. GALLI

LATIGO SHORE

F.B. 3251 PG. 97

F.B. 3251 PG. 98

N- LINE

1-13-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	R / L	NOTES
N-1	M-8		0+00.00	0.00		
		N-2	0+68.99	0.27	R.	T=64 6.78 @ LEV = 6.78 ✓
			6.78			
		POT	0+75.77	0.00		T=64 75.78 @ LEV = 75.77 ✓
			91.08			
		POT	1+66.85	0.00		T=66 96.32 @ 18°58' = 91.08 ✓
			4.36			
		N-3	1+71.21	0.20	R.	T=66 4.36 @ LEV = 4.36 ✓
			112.98			
		POT	2+84.19	0.00		T=66 119.17 @ 10°02' = 117.34 ✓
			8.85			
		N4A	2+93.04	0.27	R.	T=66 8.58 @ LEV = 8.58 ✓
			126.06			
		N-5	4+19.10	3.72	R.	T=66 3.17 @ LEV = 3.17 ✓
			3.17			
		POT	4+22.27	0.00		T=66 138.60 @ 4°51' = 138.08 ✓
			101.81			
		N-5A	5+24.08	30.10	R	T=66 8.38 @ LEV = 8.38 ✓
			8.38			
		POT	5+32.46	0.00		T=66 110.48 @ 4°03' = 110.19 ✓
			76.93			
		N-6	6+09.39	3.02	R	T=72 77.52 @ 6°59' = 76.93 ✓

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Survey of MOVEMENT STUDY
JN 0021.82 Tape 184 Std 84 °F
Surveyed by LIND
Notes LIND Date 1-13-67
Indexed G. J. GALLI

F. B. 3251 PG. 99

O - LINE 1-13-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES
O-1	M-8		0+00.00	0.00		
		O-2	0+69.25	0.25	R	T=68 69.26 @ LEV = 69.25 ✓
			103.43			
		O-3	1+72.68	0.57	R	T=70 109.35 @ 18°55' = 103.43 ✓
			81.02			
		O-4	2+53.70	1.79	R	T=70 192.15 @ 16°15' = 184.45 ✓

P-2A LINE

FROM	TO					
POT #3	M-5	P 2A	2+07.57	0.03	L	T=68 207.59 @ LEV = 207.57 ✓

P-4A LINE

FROM	TO					
POT #4	M-5	P 4A	2+50.52	0.00		T=74 250.54 @ LEV = 250.52 ✓

F. B. 3251 PG. 100

P - LINE

1 - 13 - 67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES
P-1	P-5		0+00.00	0.00		FOR CONTROL SEE FB 2341-101-103
		POT #1	0+93.53	0.00		T=68 94.07 @ 6°05' = 93.53 ✓
			29.95			
		POT #3	1+23.48	0.00		T=68 29.95 @ LEV = 29.95 ✓
			60.41			
		P-2	1+83.89	0.00		T=68 61.18 @ 9°02' = 60.41 ✓
			39.88			
		P-3	2+23.77	0.09	L	T=68 42.48 @ 20°10' = 39.88 ✓
			32.09			
		POT #4	2+55.86	0.00		T=74 34.85 @ 22°57' = 32.09 ✓
			18.47			
		P-4	2+74.33	0.04	R	T=74 21.97 @ 32°48' = 18.47 ✓
			72.90			T=68 36.13 @ LEV = 36.13 ✓
						T=68 38.91 @ 19°04' = 36.77 ✓
		P-5	3+47.23	0.00		= 72.90 ✓

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Q - LINE 1-16-67

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET AMT	L/R	NOTES
Q-1	POT		0+00.00	0.00		SEE FB 2341 103-107
		Q-2	1+54.41	0.10	R	154.43 @ LEV T=68= 154.41 1
			171.17			
		Q-3	3+25.58	0.00		171.19 @ LEV T=68= 171.17 1
			121.89			
		Q-4	4+47.47	3.89	R	47.23 @ LEV T=68= 47.23 1
			47.23			
		POT	4+94.70	0.00		169.14 @ LEV T=68= 169.12 1
			56.71			
		Q-5	5+51.41	4.54	R.	56.72 @ LEV T=68= 56.71 1
			89.32			
		Q-6	6+40.73	4.77	R.	97.74 @ LEV T=68= 97.73 1
			97.73			
		Q-7	7+38.46	0.05	R.	243.79 @ LEV T=68= 243.76 1
			89.57			
		Q-8	8+28.03	0.00		89.58 @ LEV T=68 89.57 1
			107.96			
		Q-9	9+35.99	0.00		107.97 @ LEV T=68 107.96 1

LATIGO SHORE

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LAND MOVEMENT
JN 0021 R2 Tape 184 Std 64 °F
Surveyed by LMD
Notes LMD Date 1-16-67
Indexed C. J. GALLI

F. B. 3251 PG. 101

LATIGO SHORE

Notes Ck'd by	Survey of SUBSIDENCE STUDY	F. B. 3251 Pg. 103
Map No.	JN 0021.82 Tape 76 Std 84 °F	
Office Work	Surveyed by LIND	
Checked	Notes JONES Date 3-6-67	
Date	Indexed R. J. GALLI 2	

J. N. 0021.82

LATIGO SHORE LAND MOVEMENT STUDY

HORIZONTAL MOVEMENT OBSERVATIONS

3-6-67

LIND
JONES
SWANN
BARNETT

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76F309S CE # 310 3-61

"M" - LINE 3-6-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	OFFSET L/R	NOTES	
M-1	M-8		0+00.00	0.00		SEE F.B. 2341 FOR CONTROL	
			327.87				
		M-2	3+27.87	0.00		T=70 271.70 @ 1° 11' =	271.22
						T=70 86.66 @ LEV =	86.65
			146.85				357.87
		M-2A	4+74.72	15.01	R	T=70 - 66.39 @ LEV	66.38
			66.38				
		M-3	5+41.10	0.14	R	T=70 213.54 @ 2° 52' =	213.23
			118.90				
		M-4	6+60.00	0.00		T=70 119.15 @ 3° 22' =	118.90
			230.32				
		M-5	8+90.32	0.03	R	T=70 230.82 @ 3° 43' =	230.32
			647.26				
		M-6	15+37.58	0.00		T=70 191.47 @ 3° 40' =	191.06
						T=70 195.86 @ 3° 03' =	195.56
						T=70 261.07 @ 3° 12' =	260.64
			341.31				647.26
		M-7	19+78.89	0.00		T=70 286.00 @ 0° 43' =	285.95
						T=70 55.37 @ 0° 00' =	55.36
							341.31

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M-2 Line 3-6-67

ON Line From	To	Sight on Station	Pluss	OFFSET Amount	L/R	Notes
R.P.Z	R.P.Y		0+00.00 110.52	0.00		See F.B. 3161-15+16 For Control
		M-2 AA	1+10.52 133.01	0.00		T=68 110.53 @ Lev = 110.52
		M-2 B	2+43.53 49.97	4.03	R.	T=68 49.98 @ Lev = -49.97
		P.O.T.	2+93.50 127.30	0.00		T=68 185.12 @ 8°-41' = 182.98
		P.O.T.	4+20.80 5.85	0.00		T=68 129.02 @ 9°-20' = 127.30
		M-2 C	4+26.65 139.94	18.27	R.	T=68 5.85 @ Lev = 5.85
		M-2 D	5+66.59 47.01	0.22	R.	T=68 192.90 @ 1°-42' = 192.80
(RP-Y)		P.O.T.	6+13.60	0.00		T=68 49.01 @ 16°-24' = -47.01

Notes Ck'd by
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Office Work
Checked
Date

Survey of Movement Study
JN 0021.82 Tape 76 Std 84 °F
Surveyed by Lind
Notes Jones Date 3-6-67
Indexed G. J. GALLI

Latigo Shore

F.B. 3851 Pg. 105

N-Line 3-6-67

On Line From	To	Sight on Station	Pluss	Offset Amt.	L./R.	Notes	
N-1	M-8		0+00.00	0.00			
		N-2	68.98 0+68.98	0.26	R.	T=64 68.9	9 @ Lev. = 68.98
		P.O.T.	6.79 0+75.77	0.00		T=64 75.7	8 @ Lev = 75.77
		P.O.T	91.06 1+66.83	0.00		T=64 96.17	@ 18°45' = 91.06
		N-3	4.35 1+71.18	0.19	R	T=64 4.35	@ Lev. = 4.35
		P.O.T.	112.97 2+84.15	0.00		T=64 119.	42 @ 10°43' 117.32
		N-4 A	8.84 2+92.99	0.28	R	T=64 8.8	4 @ Lev. = 8.84
		N-5	126.06 4+19.05	3.73	R	T=64 3.18	@ Lev. = 3.18
		P.O.T.	3.18 4+22.23	0.00		T=64 138.	60 @ 4°53' = 138.08
		N-5 A	101.81 5+24.04	30.10	R	T=68 8.39	@ Lev. = 8.39
		P.O.T.	8.39 5+32.43	0.00		T=68 110.	48 @ 3°59' = 110.20
		N-6	76.93 6+09.36	3.04	R	T=68 77.5	2 @ 7°01' = 76.93

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O - LINE

3-7-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	L/R	NOTES	
O-1	M-8		0+00.00	0.00			
		O-2	69.25 0+69.25	0.24	R	T= 64 69.26 @ Lev. =	69.25
		O-3	103.42 1+72.67	0.58	R	T= 64 110.01 @ 19°-55'	= 103.42
		O-4	81.01 2+53.68	1.78	R	T = 64 192.31 @ 16°-26'	= 184.43
FROM	TO			P-2 A LINE			
P.O.T. #3	M-5	P-2 A	2+07.53	0.03	L	T= 66 207.55 @ Lev. =	207.53
				P-4 A LINE			
FROM P.O.T. #4	TO M-5	P-4 A	2+50.50	0.00		T= 66 250.53 @ Lev. =	250.50

Notes Ck'd by
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Office Work
Checked
Date

Survey of Movement Study
JN 002182 Tape 76 Std 84 °F
Surveyed by Lind
Notes Jones Date 3-6-67
Indexed C. J. GALLI

Latigo Shore

F.B. 3251 PG. 107

F. B. 3251 PG. 108

P-LINE

3-8-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	AMT.	L/R	NOTES	
P-1	P-5		0+00.00	0.00		FOR CONTROL SEE F.B. 2341-101-103	
			93.52				
		P.O.T. #1	0+93.52	0.00		T=66 93.90 @ 5°04' =	93.52
			29.94				
		P.O.T. #3	1+23.46	0.00		T=66 29.94 @ Lev. =	29.94
			60.42				
		P-2	1+83.88	0.00		T=66 61.37 @ 10°03' =	60.42
			39.88				
		P-3	2+23.76	0.08	L	T=66 42.84 @ 21°24' =	39.88
			32.10				
		P.O.T. #4	2+55.86	0.00		T=66 34.95 @ 23°18' =	32.10
			18.44				
		P-4	2+74.30	0.04	R	T=66 21.61 @ 31°26' =	18.44
			72.88				
		P-5	3+47.18	0.00		T=66 36.12 @ Lev. =	36.12
						T=60 38.70 @ 18°11' =	36.76
							72.88

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Q LINE

3-9-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMOUNT	OFFSET L./R.	NOTES	
Q-1	P.o.T.		0+00.00			SEE F.B. 2341 103-107	
			154.38				
		Q-2	1+54.38	0.11	R	T=60° 154.40 @ Lev. =	154.38
			171.24				
		Q-3	3+25.62	0.00		T=60° 171.27 @ Lev. =	171.24
			121.92				
		Q-4	4+47.54	3.92	R	T=60° 47.23 @ Lev. =	47.22
			47.22				
		P.o.T.	4+94.76	0.00		T=60° 169.17 @ Lev. =	169.14
			56.70				
		Q-5	5+51.46	4.57	R	T=60° 56.71 @ Lev. =	56.70
			89.33				
		Q-6	6+40.79	4.80	R	T=60° 97.78 @ Lev. =	97.76
			97.76				
		Q-7	7+38.55	0.07	R	T=60° 243.83 @ Lev. =	243.79
			89.59				
		Q-8	8+28.14	0.00		T=60° 89.60 @ Lev. =	89.59
			107.96				
		Q-9	9+36.10	0.00		T=60° 107.98 @ Lev. =	107.96

Notes Ck'd by
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Office Work
Checked
Date

Survey of LAND MOVEMENT
JN 0021.8.2 Tape 76 Std 84 °F
Surveyed by LIND
Notes JONES Date 3-9-67
Indexed G. J. GALLI

LATIGO SHORE

F.B. 3251 PG. 109

LATIGO SHORE

Notes Ck'd by	Survey of SUBSIDENCE STUDY
Map No.	JN 0021.82 Tape 76 Std 84 °F
Office Work	Surveyed by LIND
Checked	Notes JONES Date 4-24-67
Date	Indexed C. J. GALLI

F. B. 3251 PG. 111

J. N. 0021.82

LATIGO SHORE LAND MOVEMENT STUDY

HORIZONTAL MOVEMENT OBSERVATIONS

4-24-67

PARTY

LIND
JONES
SWANN
BARNETT

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76F3095 CE # 310 3-61

F. B. 3251 PG. 112

M—LINE

4-24-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L/R			NOTES
M-1	M-8		0+00.00	0.00		SEE F. B.	2341 FOR	CONTROL
			327.78					
		M-2	3+27.78	0.00		T= 60°	271.25 @ 1°22'	= 271.13
						T= 60°	56.66 @ 0°00'	= 56.65
			146.85					3+27.78
		M-2A	4+74.63	15.02	R	T= 60°	66.38 @ 0°00'	= -66.37
			66.37					
		M-3	5+41.00	0.13	R	T= 60°	213.59 @ 3°15'	= 213.22
			118.89					
		M-4	6+59.89	0.00		T= 60°	91.80 @ 0°00'	= 91.79
						T= 60°	27.10 @ 0°00'	= 27.10
			287.09					118.89
SEE PAGE 120 →		M-5 A	9+46.98	0.00		T= 60°	287.51 @ 2°56'	= 287.09
SEE PAGE 120 →		M-5 B	9+46.98	33.00	L			
			590.33					
		M-6	15+37.31	0.00		T= 64°	134.62 @ 4°18'	= 134.22
						T= 64°	195.89 @ 3°15'	= 195.55
			341.22			T= 64°	261.02 @ 3°16'	= 260.56
								590.33
		M-7	18+78.53	0.02	L	T= 64°	55.39 @ 0°00'	= 55.38
						T= 64°	285.91 @ 00°47'	= 285.84
								341.22

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LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76F3095 CE # 310 3-61

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M-2 LINE 4-24-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMOUNT	L/R	NOTES	
R.P.Z	R.P.Y		0+00.00	0.00		SEE F.B. 3161-15+16 FOR CONTROL	
			110.52				
		M-2 AA	1+10.52	0.00		T= 64° 110.53 e 00°00' =	110.52
			133.00				
		M-2 B	2+43.52	4.06	R	T= 64° -49.96 e 0°00' =	49.95
			49.95				
		P.O.T	2+93.47	0.00		T= 64° 185.11 e 0°00' =	182.95
			127.29				
		P.O.T.	4+20.76	0.00		T= 64° 128.99 e 9°15' =	127.29
			5.86				
		M-2 C	4+26.62	18.24	R	T= 64° 5.86 e 0°00' =	5.86
			139.89				
		M-2 D	5+66.51	0.21	R	T= 64° 192.82 e 1°24' =	192.73
			46.98				
		P.O.T.	6+13.49	0.00		T= 64° 49.90 e 19°39' =	-46.98

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of SUBSIDENCE STUDY
LATIGO SHORE
JNo 2684 Tape 76 Std 84 °F
Surveyed by LWD
Notes J. JONES Date 4-24-67
Indexed G.J. GALLI

F.B. 3251 Pg. 113

F. B. 3251 PG. 114

N - LINE

4-25-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMOUNT	L/R			NOTES
N-1	M-8		0+00.00	0.00				
			69.00					
		N-2	0+69.00	0.27	R	T= 64°	69.01 @ 0°00' =	69.00
			6.77					
		P.O.T	0+75.77	0.00		T= 64°	75.78 @ 0°00' =	75.77
			91.05					
		P.O.T	1+66.82	0.00		T= 64°	96.43 @ 19°13' =	91.05
			4.36					
		N-3	1+71.18	0.19	R	T= 64°	4.36 @ 0°00' =	4.36
			112.98					
		P.O.T.	2+84.16			T= 64°	119.39 @ 10°35' =	117.34
			8.82					
		N-4A	2+92.98	0.30	R	T= 64°	8.82 @ 0°00' =	8.82
			126.05					
		N-5	4+19.03	3.75	R	T= 64°	3.18 @ 0°00' =	-3.18
			3.18					
		P.O.T.	4+22.21	0.00		T= 64°	138.56 @ 4°48' =	138.05
			101.81					
		N-5A	5+24.02	30.12	R	T= 64°	8.38 @ 0°00' =	-8.38
			8.38					
		P.O.T.	5+32.40	0.00		T= 64°	110.37 @ 3°08' =	110.19
			76.91					
		N-6	6+09.31	3.06	R	T= 64°	77.44 @ 6°41' =	76.91

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76F309S CE # 310 3-61

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O- LINE 4-25-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMOUNT	OFFSET L/R		NOTES	
O-1	M-8		0+00.00	0.00		O- LINE SEE F.B. 2341-		95.99
			69.29					
		O-2	0+69.29	0.22	R	T= 64°	69.30 @ 0°00' =	69.29
			103.35					
		O-3	1+72.64	0.58	R	T= 64°	109.99 @ 20°00' =	103.35
			81.03					
		O-4	2+53.67	1.81	R	T= 64°	192.60 @ 16°46' =	184.38
				P-2 A LINE				
FROM P.O.T. #3	TO M-5B	P-2 A	2+07.53	1.81	L	T= 66°	207.55 @ 0°00' =	207.53
				P-4 A LINE				
FROM P.O.T. #4	TO M-5B ↓ New mark	P-4 A	2+50.48	4.15	L	T= 76°	250.49 @ 0°00' =	250.48

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of SUBSIDENCE STUDY
JN 0021.82 Tape 76 Std 84 °F
Surveyed by LIND
Notes JONES Date 4-25-67
Indexed G. J. GALLI

LATIGO SHORE

F.B. 3251 PG. 115

F. B. 3251 PG. 116

P-LINE

4-25-67

ON FROM	LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMOUNT	L/R		NOTES	
P-1	P-5		0+00.00	0.00		FOR CONTROL SEE F. B.		2341-101-103
			93.53					
		P.O.T. # 1	0+93.53	0.00		T= 64°	94.01 @ 5°45' =	93.53
			29.93					
		P.O.T. # 3	1+23.46	0.00		T= 64°	29.93 @ 0°00' =	29.93
			60.41					
		P-2	1+83.87	0.00		T= 64°	60.54 @ 3°40' =	60.41
			39.88					
		P-3	2+23.75	0.08	L	T= 66°	42.59 @ 20°32'	39.88
			32.11					
		P.O.T. # 4	2+55.86	0.00		T= 66°	34.81 @ 22°42' =	32.11
			18.46					
		P-4	2+74.32	0.04	R	T= 76°	21.55 @ 31°03' =	18.46
			72.92					
		P-5	3+47.24	0.00		T= 76°	36.14 @ 0°00' =	36.14
						T= 76°	38.36 @ 16°30' =	36.78
								72.92

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76F309S CE # 310 3-61

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Q-LINE 4-26-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMOUNT	L/R	NOTES		
Q-1	P.O.T.		0+00.00	0.00		SEE F.B. 2341-103-107		
			154.38					
		Q-2	1+54.38	0.10	R	T=66°	154.40 @ 0°00' =	154.38
			171.19					
		Q-3	3+25.57	0.00		T=66°	171.21 @ 0°00' =	171.19
			121.89					
		Q-4	4+47.46	3.93	R	T=66°	47.22 @ 0°00' =	-47.21
			47.21					
		P.O.T.	4+94.67	0.00		T=66°	169.12 @ 0°00' =	169.10
			56.71					
		Q-5	5+51.38	4.57	R	T=66°	56.72 @ 0°00' =	56.71
			89.28					
		Q-6	6+40.67	4.79	R	T=66°	97.75 @ 0°00' =	-97.74
			97.74					
		Q-7	7+38.41	0.07	R	T=66°	243.77 @ 0°00' =	273.74
			89.57					
		Q-8	8+27.98	0.00		T=66°	89.58 @ 0°00' =	89.57
			107.94					
		Q-9	9+35.92	0.00		T=66°	107.95 @ 0°00' =	107.94

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LAND MOVEMENT
JN 0021.82 Tape 76 Std 84 °F
Surveyed by LIND
Notes
Indexed
JONES Date 4-26-67
G. J. GALLI

LATIGO SHORE

F.B. 3251 Pg. 117

Notes Ck'd by	Survey of LATIGO SHORE LANDSLIDE	F. B. 3271 PG. 119
Map No.	JN 0021.92 Tape 76 Std 20 °F	
Office Work	Surveyed by LMD	
Checked	Notes LMD Date 4-24-67	
Date	Indexed C. J. GALLI	

JN. 0021.92

LATIGO SHORE LANDSLIDE

HORIZONTAL LOCATION

OF

M-5 A AND M-5 B

4-24-67

LMD

JONES

SWALL

BARNETT

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76F3095 CE # 310 8-61

F. B. 3351 PG. 120

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Notes Ck'd by	Survey of LATIGO SHORE LANDSLIDE	F.B. 3251 PG. 121
Map No.	JN 00-82 Tape 76 Std 84 °F	
Office Work	Surveyed by LIND	
Checked	Notes LIND Date 6-5-67	
Date	Indexed C.J. GALLI 15-67	

JN 00 21 82

LATIGO SHORE LANDSLIDE

RE-RUN OF W.L.Y

CONTROL LINE

JUNE 5 1967

LIND

JONES

SWAUN

LOVE

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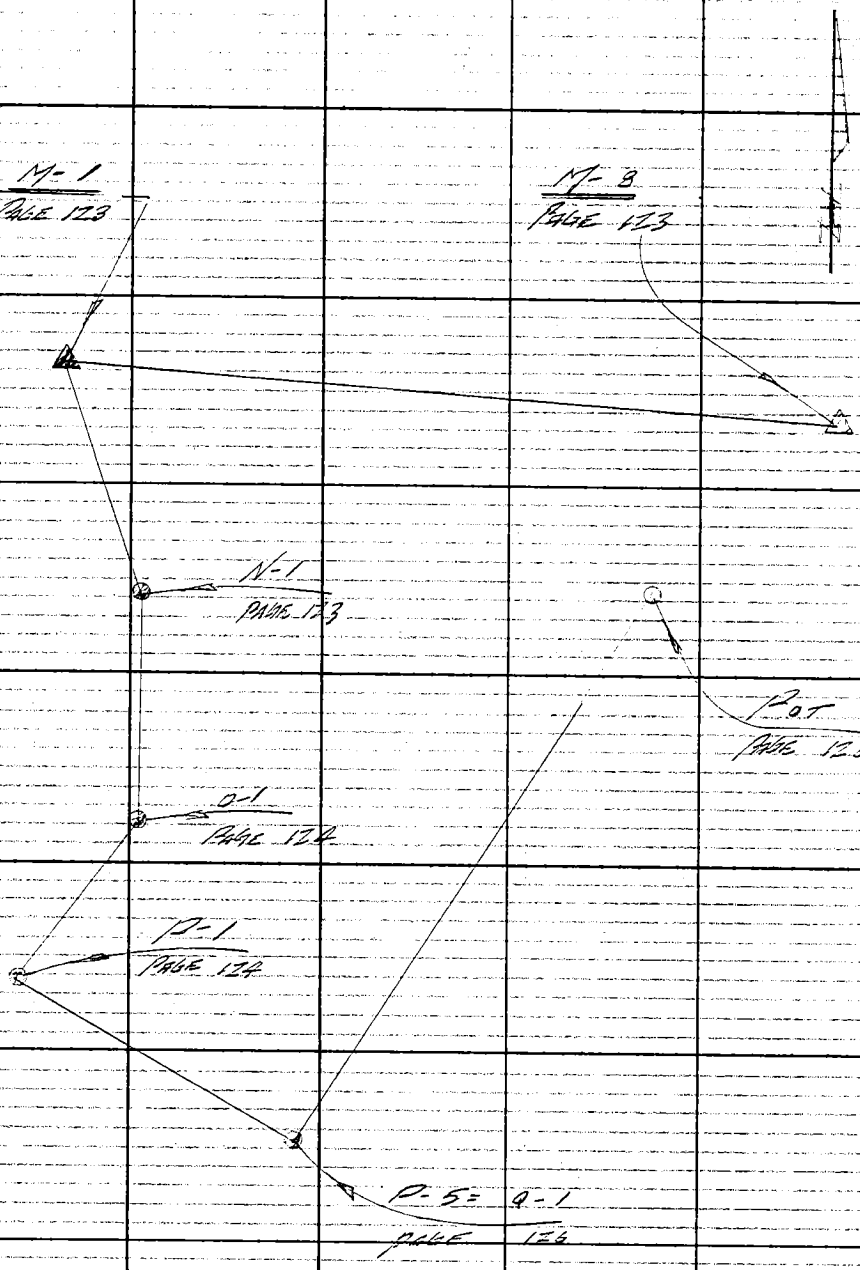
76F3099 CE#310 1-65

F. B. 3251 PG. 122



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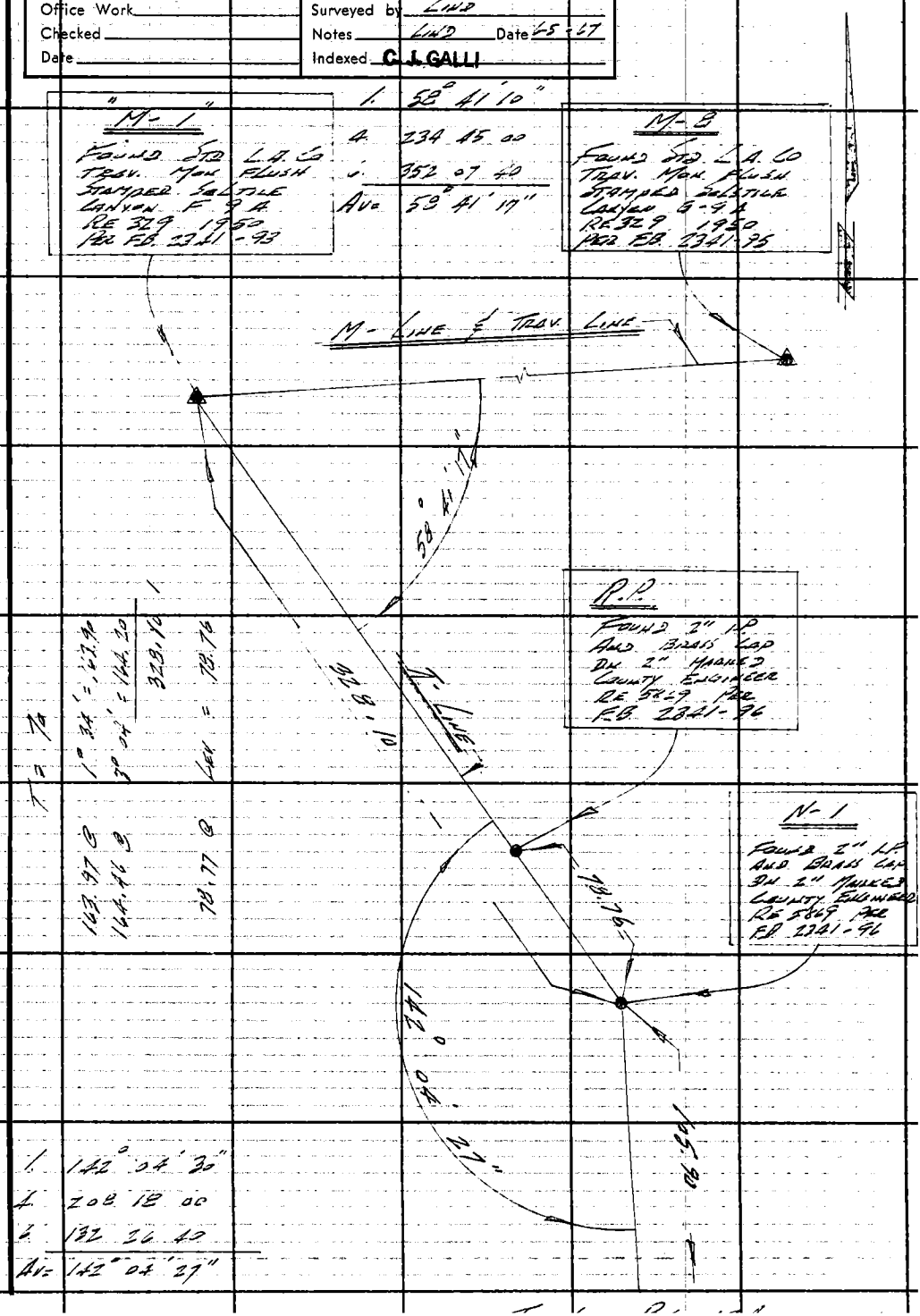
Notes Ck'd by	Survey of Latigo Shore Land Line	F. B. 3251 Pg. 123
Map No.	JN 0021.82 Tape 76 Std 84 °F	
Office Work	Surveyed by Lind	
Checked	Notes Lind Date 6-5-67	
Date	Indexed C. J. GALLI	



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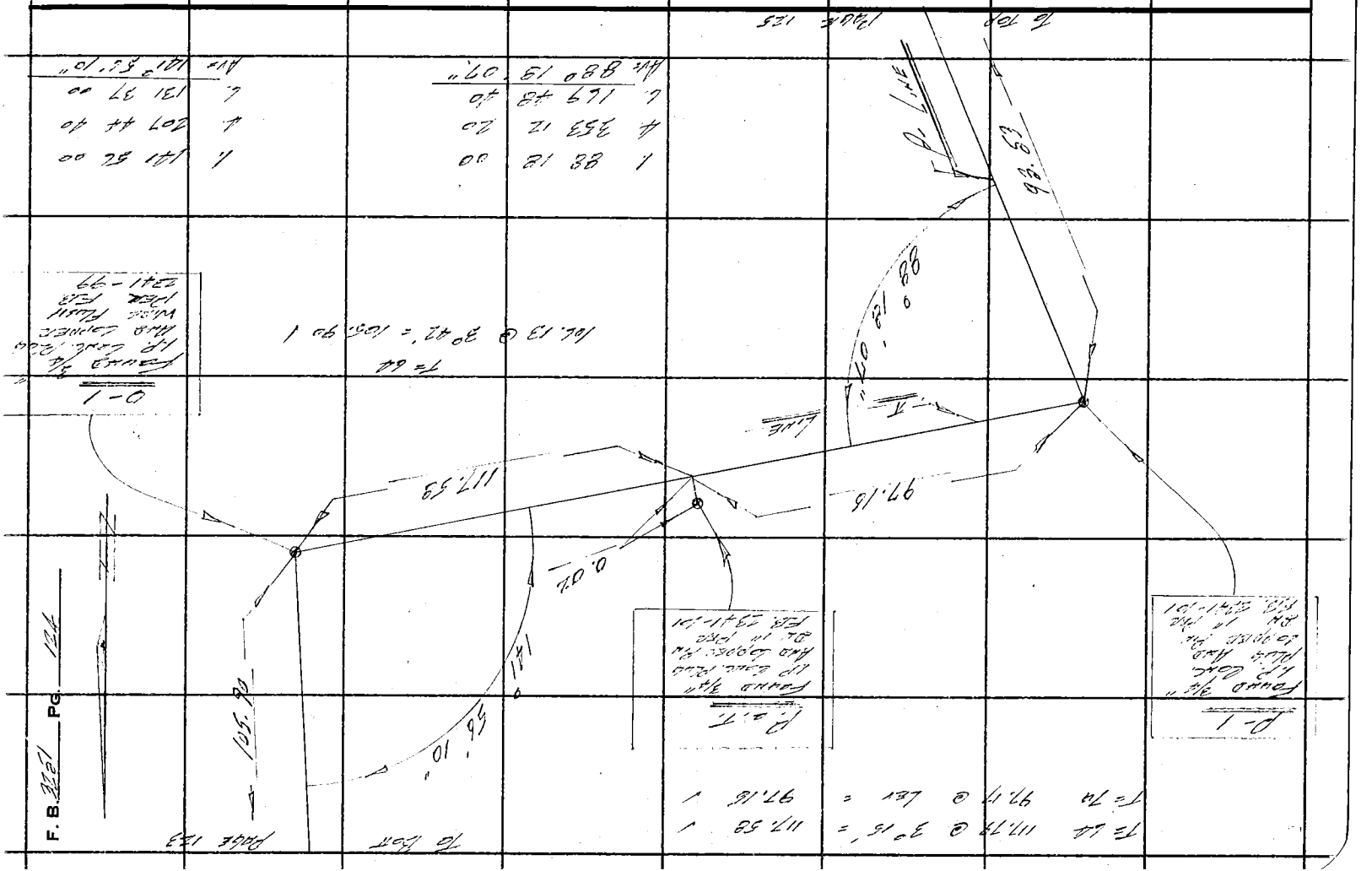
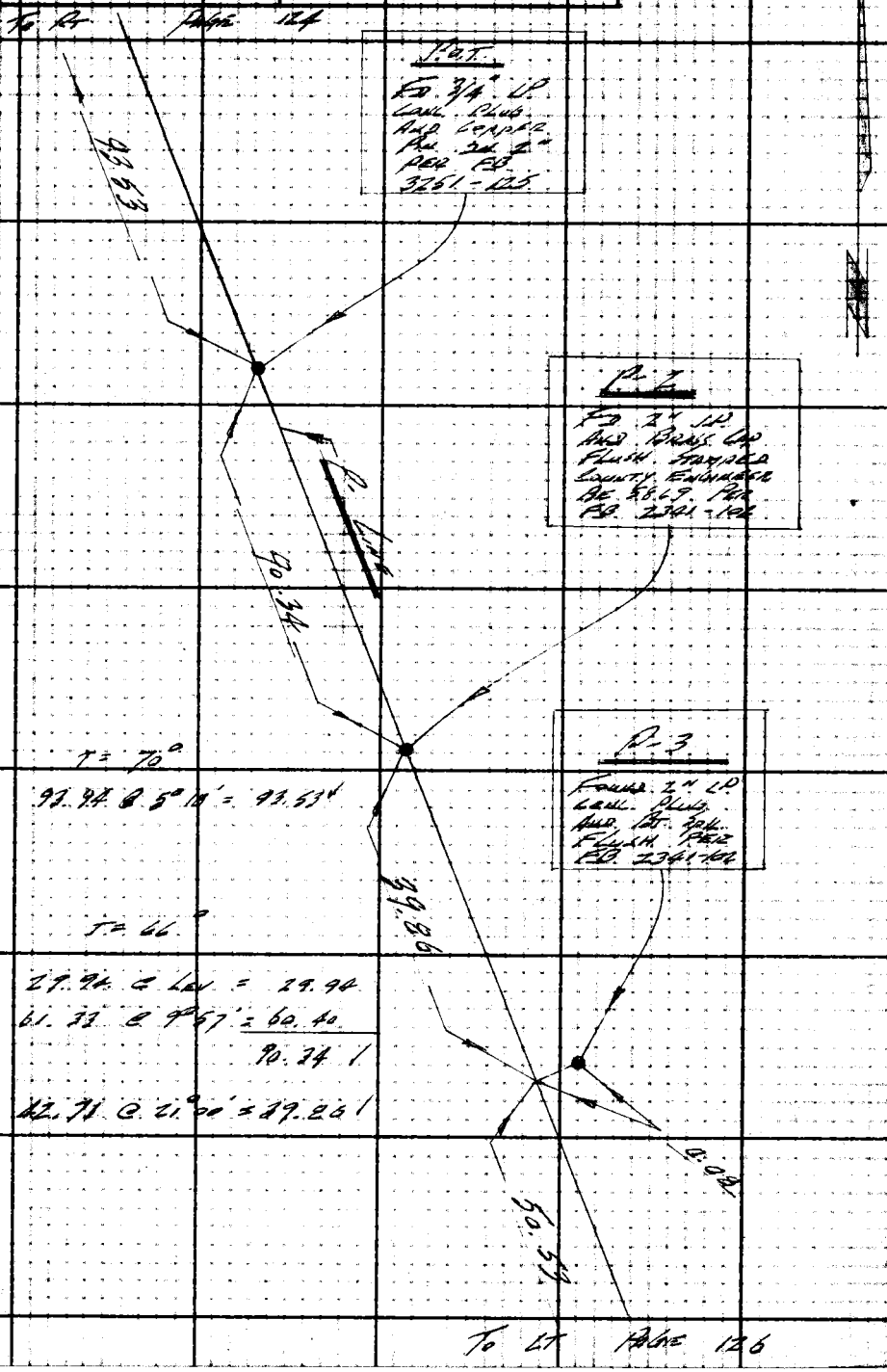


F. B. 3261 PG. 124

Notes Ck'd by	Survey of Latigo Shore Land Slide
Map No.	JN 26 82 Tape 76 Std. 85 °F
Office Work	Surveyed by LMD
Checked	Notes LMD Date 5-5-87
Date	Indexed C. J. GALLI

F. B. 3261 Pg. 125



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76F3098 CE # 310 2-61

F. B. 3251 PG. 126

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Notes Ck'd by	Survey of Latigo Shore Landslide	F. B. 3251 Pg. 127
Map No.	JN 00 21 82 Tape 76 Std. 80 °F	
Office Work	Surveyed by Lind	
Checked	Notes Lind Date 6-1-67	
Date	Indexed C. J. GALLI JUN 15 '67	

JN 00 21 82

LATIGO SHORE LANDSLIDE

HORIZONTAL MOVEMENT OBSERVATIONS

JUNE 1 1967

LIND
JONES
SWANN
LOVE

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76F309S CE#310 1-65

F.B. 2251 PG. 128

M- LINE

6- 1-67

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET AMT	L/R	NOTES
M-1	M-8		0+00			SEE FB 2341 FOR CENTRAL
			327.81			
		M-2	3+27.81	0.00		T=64° 271.27 @ 1°21' = 271.15
			146.87			56.67 @ LEV = 56.66
		M-2A	4+74.68	15.02	R.	327.81
			66.32			T=64° 213.54 @ 3°07' = 213.19
		M-3	5+41.00	14.40	R	T=64° 66.33 @ LEV = 66.32
				.14 checks previous obs. PAW 6/20/67		
			118.87			
		M-4	6+59.87	0.00		T=64° 119.17 @ 3°57' = 118.87
			287.10			
		M-5A	9+46.97	0.04	R	T=70° 287.65 @ 3°27' = 287.10
		M-5B	9+46.97	32.96	L	T=70° 134.62 @ 4°21' = 134.22
			590.34			
		M-6	15+37.31	0.00		T=70° 195.92 @ 3°24' = 195.55
			341.27			
		M-7	18+78.58	0.00		T=70° 260.98 @ 3°09' = 260.57
						TOTAL 590.34
						T=70 55.49 @ LEV 55.48
						T=70 285.90 @ 1°22' 285.79
						TOTAL 341.27

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M-2 LINE 6-1-67

AN LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET AMOUNT	L/R	NOTES
RPZ	R.P.Y		0+00.00			SEE F.B. 3161 PAGE 15 & 16 FOR CONTROL
			110.49			
		M-2AA	1+10.49	0.00		T= 66° 110.50 @ LEV = 110.49
			133.01			
		M-2B	2+43.50	4.07	R	T= 66° 49.99 @ LEV = 49.98
			49.98			
		POT	2+93.48	0.00		T= 66° 185.11 @ 8° 38' = 182.99
			127.27			
		POT	4+20.75	0.00		T= 64° 128.97 @ 9° 15' = 127.27
			584			
		M-2C	4+26.59	18.30	R	T= 65° 5.84 @ LEV = 5.84
			139.87			
		M-2D	5+66.46	0.24	R	T=64° 192.87 @ 1° 53' = 192.74
			47.03			
		POT	6+13.49	0.00		T=64° 49.70 @ 18° 51' = 47.03

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Laguna Shore Complete
JN 4021.82 Tape 76 Std 84 °F
Surveyed by Lind
Notes Date 6-1-67
Indexed C. J. GALLI

F.B. 3251 PG. 129

F.B. 3251 PG. 130

N-LINE

6-1-67

ON FROM	LINE TO	SHOT ON STATION	PLUSS	OFFSET AMOUNT	L/R	NOTES
N-1	N-8		0+00.00	0.00		SEE F.B. 3341 FOR CONTROL
		N-2	0+68.99	0.27	R.	T=70 69.00 @ LEV = 68.99
			6.75			
		POT	0+75.74	0.00		T=70 75.75 @ LEV = 75.74
			91.06			
		POT	1+65.80	0.00		T=70 96.57 @ 19°26' = 91.06
			4.35			
		N-3	1+71.15	0.19	R.	T=70 4.35 @ LEV = 4.35
			113.02			
		POT	2+84.17	0.00		T=74 119.27 @ 6°43' = 117.27
			8.84			
		N-4A	2+93.01	0.30	R.	T=74 8.84 @ LEV = 8.84
			TL 4.07 ~~10.41~~			
		N-5	4+19.08	3.76	R.	T=74 3.19 @ LEV = 3.19
			3.19			
		POT	4+22.27	0.00		T=74 138.58 @ 4°44' = 138.10
			101.79			
		N-6A	5+24.06	3.11	R.	T=74 8.39 @ LEV = 8.39
			8.39			
		POT	5+32.45	0.00		T=74 110.41 @ 3°26' = 110.18
			76.91			
		N-6	6+09.36	3.00	R.	T=74 77.43 @ 6°35' = 76.91

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O- LINE 6-2-67

ON LINE FROM	TO	SHEET ON STATION	PLUSS	OFFSET AMOUNT	L/R	NOTES
O-1	M-8		0+00.00	0.00		SEE F.B. 2341-95-96 FOR CONTROL
		O-2	69.31 0+69.31	0.27	R	T=64 69.32 @ LEV = 69.31
		O-3	103.37 1+72.68	0.58	R	T=64 109.55 @ 19° 19' = 103.37
		O-4	81.02 2+53.70	1.80	R	T=68 192.30 @ 16° 28' = 184.39

P-2A LINE

FROM	TO					
POT No 3	M5B	P-2A	2+07.54	1.81	L	T=70 207.56 @ LEV = 207.54

P-4A LINE

FROM	TO					
POT #4	M-5-B	P-4A	2+50.46 40	4.15	L	T=80 250.50 @ LEV = 250.49

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LATIGO SHORE LANDSIDE
JN 0021.02 Tape 76 Std 84 °F
Surveyed by LIN2
Notes Date
Indexed C.J. GALLI

F.B. 3251 PG. 131

F.B. 3151 PG. 132

P-LINE

6-5-67

ON LINE FROM	TO	SIGHT ON STATION	PLUS	OFFSET AMT.	L/R	NOTE
P-1	P-5		0+00.00	0.00		SEE FB. 2341-103-107 FOR CONTROL
		POT #1	0+93.53	0.00		T=70 93.94 @ 5°18' = 93.53
		POT #3	(29.94) 1+23.47	0.00		T=70 29.94 @ L61 = 29.94
		P-2	(60.40) 1+83.87	0.00		T=66° 61.33 @ 9°57' = 60.40
		P-3	(39.86) 2+23.73	0.08	L	T=66° 42.55 @ 20°26' = 39.86
		POT #4	(32.08) 2+55.81	0.00		T=66 38.17 @ 24°11' = 32.08
		P-4	(18.45) 2+74.26	0.04	R	T=80 21.62 @ 31°24' = 18.45
		P-5	(72.92) 3+47.18	0.00		T=80 36.14 @ L60 = 36.14
						T=80 38.34 @ 16°25' = 36.78
						72.92

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76F309S CE#310 1-65

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Q-LINE 6-5-67

ON LINE FROM	TO	SIGHT ON STATION	PLUS	OFFSET AMT.	L/R.	NOTES
Q-1	POT		0+00.00 154.36	0.00		
		Q-2	1+54.36 171.16	0.11	R.	T=74 154.37 @ LEV= 154.36
		Q-3	3+25.52 121.90	0.00		T=74 171.17 @ LEV= 171.16
		Q-4	4+47.42 47.22	3.94	R.	T=74 169.13 @ LEV= 169.12
		POT	4+94.64 56.70	0.00		T=74 47.22 @ LEV= 47.22
		Q-5	5+51.34 89.32	4.59	R.	T=70 56.71 @ LEV= 56.70
		Q-6	6+40.66 97.71	4.82	R.	T=70 97.72 @ LEV= 97.71
		Q-7	7+38.37 89.58	0.09	R.	T=70 243.75 @ LEV= 243.73
		Q-8	8+27.95 107.95	0.01	R.	T=70 89.59 @ LEV= 89.58
		Q-9	9+35.90	0.00		T=70 107.96 @ LEV= 107.95

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LATIGO SHORE LANDSLIDE F. B. 3751 PG. 133
JN 002182 Tape 76 Std. 44 °F
Surveyed by LMD
Notes
Indexed C. J. GALLI Date 6-5-67

Notes Ck'd by	Survey of Latigo Shore Landslide
Map No.	JN 0021.82 Tape 196 Std 84 °F
Office Work	Surveyed by Lind
Checked	Notes Lind Date 8-2-67
Date	Indexed G. J. GALLI AUG 10 67

F. B. 3251 PG. 135

JN 0021.82

LATIGO SHORE LANDSLIDE

HORIZONTAL MOVEMENT OBSERVATIONS

8-2-67

Lind

McCall

Swann

Wisdom

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76F309S CE#310 1-65

F.B. 3251 PG. 136

M-LINE 8-2-67

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET AMT	L/R	NOTES		
M-1	M-8		0+00	0.00		SEE F.B. 2341 FOR CONTROL		
		M-2	3+27.79	0.00		T=76	271.23 @ 1°30' = 271.13	
							56.66 @ LEV = 56.66	
			146.84				TOTAL = 327.79	
		M-2A	4+74.63	15.01	R	T=76	66.33 LEV = 66.33	BACK
			66.33					
		M-3	5+40.96	0.13	R	T=76	213.48 @ 3°02' = 213.17	
			118.87					
		M-4	6+59.83	0.00		T=82	119.20 @ 4°11' = 118.87	
			287.06					
		M-5A	9+46.89	0.04	R	T=78	287.67 @ 3°42' = 287.06	
		M-5B	9+46.89	32.96	L	T=78	134.60 @ 4°32' = 134.20	
			590.30			T=68	196.00 @ 3°47' = 195.55	
		M-6	15+37.19	0.00		T=68	261.06 @ 3°29' = 260.55	
							TOTAL 590.30	
			341.23			T=68	55.50 @ LEV = 55.55	
		M-7	18+78.42	0.00		T=70	285.82 @ 1°38' 285.68	
							TOTAL = 341.23	

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M-2 LINE ✓ 8-2-67

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET AMOUNT	L/R	NOTES
RP2	RP4					
		M-2AA	1+10.48	0.00		T=70 110.49 @ LEV = 110.48
			133.01			
		M-2B	2+43.49	4.07	R	T=70 49.99 @ LEV = 49.98 BACK
			49.98			
		POT	2+93.47	0.00		T=70 185.12 @ 8°39' = 182.99
			127.35			
		POT	4+20.82	0.00		T=70 129.11 @ 9°26' = 127.35
			5.85			
		M-2C	4+26.67	18.30	R	T=70 5.85 LEV. 5.85 AHEAD
			139.83			
		M-2D	5+66.50	0.24	R	T=70 50.24 @ 20°40' = 47.01
			47.01			
		POT	6+13.51	0.00		T=70 192.93 @ 2°45' = 192.69

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LOTTUS SHORE LAGOON
JN 0021.82 Tape 19 Std 32 °F
Surveyed by LIND
Notes Date 8-2-67
Indexed C. J. GALLI

F. B. 3251 PG. 137

N- LINE ✓ 8-2-67

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	L/R		NOTES	
N-1	N-8							
		N-2	0+69.02	0.26	R	T=70	6.76 LEV = 6.76	BACK
			6.76					
		POT	0+75.78	0.00		T=70	75.79 LEV = 75.78	
			91.05					
		POT	1+66.83	0.00		T=72	96.30 @ 19°00' = 91.05	
			4.35					
		N-3	1+71.18	0.17	R	T=72	4.35 LEV = 4.35	AHEAD
			113.00					
		POT	2+84.18	0.00		T=76	119.37 @ 10°32' = 117.35	
			8.84					
		N-4A	2+93.02	0.30	R	T=76	8.84 LEV = 8.84	AHEAD
			126.02					
		N-5	4+19.04	3.76	R	T=76	3.22 LEV = 3.22	BACK
			3.22					
		POT	4+22.26	0.00		T=76	138.60 @ 4°56' = 138.08	
			101.80					
		N-5A	5+24.06	30.09	R	T=76	8.38 LEV 8.38	BACK
			8.38					
		POT	5+32.44	0.00		T=74	110.34 @ 2°57' = 110.18	
			76.90					
		N-6	6+09.34	3.05	R	T=74	76.91 LEV = 76.90	

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Notes Ck'd by
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Office Work
Checked
Date

Survey of LAGUNA SHORE
JN 4021.82 Tape 196 Std 84 °F.
Surveyed by LIND
Notes LIND Date 8-
Indexed C. J. GALLI

F. B. 3251 Pg. 139

O- LINE ✓ 8-4-67

ON	LINE	SIGHT ON STATION	PLUSS	OFFSET AMOUNT	L./R.		NOTES
O-1	M-8						
O-1	M-8						
		O-2	0+69.29	0.27	R.	T=74	69.29 @ LEV = 69.29
			103.37				
		O-3	1+72.66	0.55	R.	T=78	110.07 @ 20°06' = 103.37
			80.98				
		O-4	2+53.64	1.81	R.	T=76	192.45 @ 16°40' = 184.35

P-2A LINE ✓

FROM	TO						
PAT No. 3	M-5B	P-2A	2+07.53	1.82	L.	T=84	207.53 LEV = 207.53

P-4 LINE ✓

FROM	TO						
PAT No. 4	M-5B						
		P-4A	2+50.45	4.15	L.	T=84	250.45 LEV = 250.45

F.B. 3151 PG 140

P- LINE ✓ 8-4-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFF SET AMT	L/R	NOTES
P-1	P-5		0+00.00	0.00		
		PGT #1	0+93.52	0.00		T=76 93.99 @ 5°43' = 93.52 ✓
		PGT #3	1+23.46	0.00		T=76 29.94 @ LEV = 29.94 ✓
		P-2	1+83.85	0.00		T=78 61.45 @ 10°41' = 60.39 ✓
		P-3	2+23.73	0.08	L.	T=78 42.49 @ 20°54' = 39.88 ✓
		PGT #4	2+55.83	0.00		T=82 35.25 @ 24°25' = 32.10 ✓
		P-4	2+74.26	0.03	R.	T=82 22.23 @ 33°54' = 18.43 ✓
		P-5	3+47.17	0.00		T=84° 36.12 @ LEV = 36.12
						38.34 @ 16°20' = 36.79
						72.91 ✓

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Notes Ck'd by		Survey of Latigo Shores	F. B. 3251 Pg. 141
Map No.		J.N. 4021.22 Tape 196 Std. 24 °F	
Office Work		Surveyed by Lino	
Checked		Notes Lino Date 8-7-67	
Date		Indexed C. J. GALLI	

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76F3095 CE#310 1-65

Q-LINE ✓ 8-4-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES			
Q-1	POT		0+00.00	0.00					
		Q-2	1+54.39	0.11	R	T=84	154.39	LEV =	154.39
			171.16						
		Q-3	3+25.55	0.00		T=84	171.16	LEV =	171.16
			121.92						
		Q-4	4+47.47	3.95	R	T=84	47.21	LEV =	47.21
			47.21						
		POT	4+94.68	0.00		T=84	169.13	LEV =	169.13
			56.71						
		Q-5	5+51.39	4.59	R	T=84	56.71	LEV =	56.71
			89.31						
		Q-6	6+40.70	4.83	R	T=84	97.71	LEV =	97.71
			97.71						
		Q-7	7+38.41	0.09	R	T=84	243.73	LEV =	243.73
			89.57						
		Q-8	8+27.98	0.01	R	T=84	89.57	LEV =	89.57
			107.96						
		Q-9	9+35.94	0.00		T=84	107.96	LEV =	107.96

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Notes Ck'd by	Survey of LATIGO SHORE LANDSLIDE
Map No.	JN 002182 Tape 154 Std. 84 °F
Office Work	Surveyed by C.K. LIND
Checked	Notes R. STRADER Date 10-4-67
Date	Indexed C.J. GALLI OCT 26 '67

F.B. 3251 PG. 143

JN 002182

LATIGO SHORE LANDSLIDE

HORIZONTAL MOVEMENT OBSERVATIONS

10-4-67

C LIND
R STRADER
R SWANN
L FISHER

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403 Los Angeles County Engineering Bldg.
78F0095 CE#310 1-65

F.B. 3251 Pg. 144

M-LINE

10-4-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	L/R	NOTES		
M-1	M-8		0+00	0.00		SEE F.B. 2341 FOR CONTROL		
		M-2	3+27.79	0.00		T=74	271.29 @ 1-32 =	271.12
			14% to				56.67 @ LEV =	56.67
							TOTAL =	327.79
		M-2A	4+74.69	15.01	R	T=78	66.33 @ LEV =	66.33 BACK
			66.33					
		M-3	5+41.02	0.13	R	T=78	213.57 @ 3-10 =	213.23
			118.89					
		M-4	6+59.91	0.00		T=78	119.18 @ 3-59 =	118.89
			287.16					
		M-5A	9+47.07	0.05	R	T=78	287.74 @ 3-37 =	287.16
		M-5B	9+47.07	32.97	L	T=78	134.57 @ 4-13 =	134.20
			590.38			T=78	195.91 @ 3-26 =	195.55
		M-6	15+37.45	0.00		T=78	261.07 @ 3-16 =	260.63
			341.34				TOTAL =	590.38
						T=78	55.94 @ LEV =	55.94
		M-7	18+78.79	0.00		T=80	285.48 @ 1-13 =	285.40
								341.34

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76F309S S&E #247 11-58

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M-2 LINE 10-4-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R		NOTES
RPZ	RPY						
		M-2 AA	1+10.48	0.00		T=78	110.48 @ LEV = 110.48
			133.09				
		M-2 B	2+43.57	4.05	R	T=78	49.96 @ LEV = 49.96 BACK
			49.96				
		P.O.T.	2+93.53	0.00		T=78	185.34 @ 9-00 = 183.05
			127.27				
		P.O.T.	4+20.80	0.00		T=78	128.89 @ 9-04 = 127.27
			5.85				
		M-2 C	4+26.65	18.29	R	T=78	5.85 @ LEV = 5.85 AHEAD
			139.83				
		M-2 D	5+66.48	0.25	R	T=78	49.87 @ 19-21 = 47.05
			47.05				
		P.O.T.	6+13.53	0.00		T=78	192.85 @ 1-55 = 192.73

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LATIGO SHORE LANDSLIDE
JN 002.1.82 Tape 154 Std 84 °F
Surveyed by C K LIND
Notes R STRADER Date 10-4-67
Indexed R.S. GALLI

F.B. 3251 PG. 145

F.B. 3251 Pg. 146

N - LINE

10-4-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R		NOTES
N-1	M-2						
		N-2	0+68.98	0.27	R	T=68	6.77 @ LEV= 6.77 BACK
			6.77				
		P.O.T.	0+75.75	0.00		T=68	75.76 @ LEV = 75.75
			91.06				
		P.O.T.	1+66.81	0.00		T=72	96.09 @ 18-36=91.06
			4.35				
		N-3	1+71.16	0.20	R	T=72	4.35 @ LEV= 4.35 AHEAD
			113.02				
		P.O.T.	2+84.18	0.00		T=76	119.21 @ 10-03=117.37
			8.84				
		N-4 A	2+93.02	0.34	R	T=76	8.84 @ LEV= 8.84 AHEAD
			126.03				
		N-5	4+19.05	3.77	R	T=76	3.19 @ LEV=3.19 BACK
			3.19				
		P.O.T.	4+22.24	0.00		T=76	138.56 @ 4-49=138.06
			107.80				
		N-5A	5+24.04	30.10	R	T=76	8.36 @ LEV = 8.36 BACK
			8.36				
		P.O.T.	5+32.40	0.00		T=76	110.31 @ 2-54=110.16
			76.92				
		N-6	6+09.32	3.06	R	T=78	76.92 @ LEV = 76.92

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O-LINE

10-4-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	L/R		NOTES
O-1	M-8						
		O-2	0+69.33	0.28	R	T=74	69.33 @ LEV=69.33
		O-3	103.35 1+72.68	0.58	R	T=78	109.73 @ 19-38=103.35
		O-4	81.00 2+53.68	1.82	R	T=78	192.18 @ 16-24=184.35

P-2A LINE

FROM	TO						
P.O.T. NO.3	M-5B	P-2A	2+07.55	1.82	L	T=76	207.55 @ LEV=207.54

P-4 LINE

FROM	TO						
P.O.T. No.4	M-5B	P-4A	2+50.45	4.16	L	T=80	250.46 @ LEV=250.45

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LATIGO SHORE LANDSLIDE
JN 0021.82 Tape 154 Std 84 °F
Surveyed by C K LIND
Notes R STRADER Date 10-4-67
Indexed R.B. GATTI

F.B. 3251 PG. 147

F. B. 3251 PG. 148

P-LINE 10-4-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R		NOTES
P-1	P-5		0+00.00	0.00			
		P.O.T. #1	0+93.54	0.00		T=76	93.87 @ 4-50 = 93.54
			29.94				
		P.O.T. #3	1+23.48	0.00		T=76	29.94 @ LEV = 29.94
			60.40				
		P-2	1+83.88	0.00		T=76	61.22 @ 9-22 = 60.40
			39.88				
		P-3	2+23.76	0.08	L	T=76	42.72 @ 21-00 = 39.88
			32.10				
		P.O.T. #4	2+55.86	0.00		T=80	35.52 @ 25-20 = 32.10
			18.45				
		P-4	2+74.31	0.03	R	T=80	21.10 @ 29-02 = 18.45
			72.90				
		P-5	3+47.21	0.00		T 80	36.12 @ LEV = 36.12
							38.85 @ 18-48 = 36.78
							72.90

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Q-LINE 10-4-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L/R		NOTES
Q-1	POT		0+00.00	0.00			
		Q-2	1+54.39	0.10	R	T=84	154.39 @ LEV = 154.39 ✓
			171.20				
		Q-3	3+25.59	0.00		T=80	171.20 @ LEV = 171.20 ✓
			121.92				
		Q-4	4+47.51	3.96	R	T=78	47.22 @ LEV = 47.22
			47.22				
		POT	4+94.73	0.00		T=78	169.15 @ LEV = 169.14
			56.73				
		Q-5	5+51.46	4.59	R	T=80	56.73 @ LEV = 56.73
			89.28				
		Q-6	6+40.74	4.83	R	T=80	97.73 @ LEV = 97.73
			97.73				
		Q-7	7+38.47	0.09	R	T=80	243.75 @ LEV = 243.74
			89.57				
		Q-8	8+28.04	0.01	R	T 78	89.57 @ LEV = 89.57
			107.94				
		Q-9	9+35.98	0.00		T 80	107.94 @ LEV = 107.94

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LATIGO SHORE LANDSLIDE
JN 0021.82 Tape 154 Std 84 °F
Surveyed by CK LIND
Notes R STRADER Date 10-4-67
Indexed [illegible] GALLI [illegible] 16 [illegible]

F. B. 3251 PG. 149

Notes Ck'd by	Survey of LATIGO SHORE LANDSLIDE
Map No.	JN 0021.82 Tape 196 Std 84 °F
Office Work	Surveyed by CK LIND
Checked	Notes R STRADER Date 12-6-67
Date	Indexed ~~M. E. OTT~~ ~~DEC 15 '67~~

F. B. 325 PG. 151

J.N. 0021.82

LATIGO SHORE LANDSLIDE

HORIZONTAL MOVEMENT OBSERVATIONS

12-6-67

PARTY

C K LIND
R STRADER
R SWANN
F MUNOZ
L FISHER

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76F309S S&E #247 1-56

F.B. 325 PG. 52

M - LINE

12-6-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	OFFSET L/R	NOTES			
M-1	M-8		0+00	0.00		SEE F.B. 2341	FOR CONTROL		
		M-2	3+27.87	0.00		T=68	271.29 @	1-12 =	271.20
			146.83				56.68 @	LEV =	56.67
								TOTAL =	327.87
		M-2A	4+74.70	15.02	R	T=66	66.37 @	LEV =	66.36 BACK
			66.36						
		M-3	5+41.06	0.15	R	T=66	213.55 @	3-10 =	231.19
			118.90						
		M-4	6+59.96	0.00		T=66	119.25 @	4-21 =	118.90
			287.11						
		M-5A	9+47.07	0.04	R	T=68	287.60 @	3-34 =	287.11
			0						
		M-5 B	9+47.07	32.97	L	T=66	134.57 @	4-02 =	134.22
			590.41			T 68	196.06 @	3-54 =	195.59
		M-6	15+37.48	0.02	R	T=68	261.08 @	3-19 =	260.60
			341.29					TOTAL =	590.41
						T=68	56.05 @	LEV =	56.04
		M-7	18+78.77	0.00		T=68	285.36 @	1-21 =	285.25
									341.29

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76F309S S&E #247 11-58

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Do not extend this side of this line.

M-2 LINE / 12-6-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	OFFSET L/R		NOTES
RPZ	RPY						
		M-2 AA	1+10.52	0.00		T=58	110.54 @ LEV= 110.52
		M-2B	133.08 2+43.60	4.06	R	T=58	50.00 @ LEV= 49.99 BACK
		P.O.T.	49.97 2+93.59	0.00		T=58	185.26 @ 8-45=183.07
		P.O.T.	127.35 4+20.94	0.00		T=58	129.14 @ 9-30=127.35
		M-2C	5.76 4+26.70	18.33	R	T=58	5.76 @ LEV = 5.76 AHEAD
		M-2D	139.92 5+66.62	0.25	R	T=62	49.88 @ 19-33= 46.99
		P.O.T.	46.99 6+13.61	0.00		T=62	192.74 @ 1-07 = 192.67

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LATIGO SHORE LANDSLIDE
JN 002182 Tape 196 Std 84 °F
Surveyed by C K LIND
Notes R STRADER Date 12-6-67
Indexed H. E. OTY

F. B. 3251 PG. 153

F.B. 325 | PG. 154

N - LINE ✓

12-6-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	L/R		NOTES
N-1	M-2						
		N-2	0+69.01	0.29	R	T=66	6.80 @ LEV = 6.80 BACK
			6.80				
		P.O.T.	0+75.81	0.00		T=66	75.82 @ LEV = 75.81
			91.04				
		P.O.T.	1+66.85	0.00		T=68	96.62 @ 19-33 = 91.04
			4.35				
		N-3	1+71.20	0.17	R	T=68	4.35 @ LEV = 4.35 AHEAD
			113.01				
		P.O.T.	2+84.21	0.00		T=68	118.80 @ 8-54 = 117.36
			8.85				
		N-4A	2+93.06	0.37	R	T=68	8.85 @ LEV = 8.85
			126.07				
		N-5	4+19.13	3.78	R	T=68	3.18 @ LEV = 3.18 BACK
			3.18				
		P.O.T	4+22.31	0.00		T=68	138.52 @ 4-26 = 138.10
			101.63				
		N-5A	5+24.14	30.15	R	T=68	8.37 @ LEV = 8.37 BACK
			8.37				
		P.O.T.	5+32.51	0.00		T=66	110.39 @ 3-16 = 110.20
			76.94				
		N-6	6+09.45	3.08	R	T=66	76.95 @ LEV = 76.94

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76F309S S&E #247 1-56

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O-LINE / 12-7-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	L/R		NOTES
O-1	M-2						
		O-2	0+69.30	0.31	R	T=60	69.31 @ LEV= 69.30
		O-3	103.37 1+72.67	0.58	R	T=58	110.19 @ 20-14= 103.37
		O-4	81.04 2+53.71	1.82	R	T=58	192.61 @ 16-44= 184.41
FROM P.O.T. No. 3	TO M-5B	P-2A	P-2A LINE / 2+07.57	1.82	L	T=58	207.61 @ LEV= 207.57
FROM	TO		P-4 LINE /				
P.O.T. No. 4	M-5B	P-4A	2+50.49	4.15	L	T=60	250.53 @ LEV= 250.49

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LITIGO SHORE LANDSLIDE
JN 0021.82 Tape 196 Std. 84 °F
Surveyed by CK LIND
Notes R STRADER Date 12-7-67
Indexed H. E. OTT

F.B. 3251 PG. 155

F.B. 3251 PG. 156

P- LINE 12-7-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	OFFSET L/R		NOTES	
P-1	P-5		0+00	0.00				
		POT #1	0+93.54	0.00		T=58	93.95 @ 5-15 =	93.54
			29.94					
		POT #3	1+23.48	0.00		T=58	29.95 @ LEV =	29.94
			60.40					
		P-2	1+83.88	0.00		T=58	61.28 @ 9-40 =	60.40
			39.88					
		P-3	2+23.76	0.08	L	T=60	42.45 @ 20-00 =	39.88
			32.08					
		POT #4	2+55.84	0.00		T=60	35.31 @ 24-39 =	32.08
			18.46					
		P-4	2+74.30	0.03	R	T=60	21.46 @ 30-41 =	18.46
			72.89					
		P-5	3+47.19	0.00		T=60	36.13 @ LEV =	36.12
							38.38 @ 16-37 =	36.77
								72.89

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76F309S S&E #247 11-58

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Q - LINE 12-8-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	L/R		NOTES
Q-1	POT		0+00	0.00			
		Q-2	1+54.40	0.11	R	T=60	154.42 @ LEV = 154.40
			171.18				
		Q-3	3+25.58	0.00		T=60	171.21 @ LEV = 171.18
			121.94				
		Q-4	4+47.52	3.96	R	T=60	47.24 @ LEV = 47.23
			47.23				
		POT	4+94.75	0.00		T=60	169.20 @ LEV = 169.17
			56.72				
		Q-5	5+51.47	4.60	R	T=60	56.73 @ LEV = 56.72
			89.36				
		Q-6	6+40.83	4.82	R	T=62	97.70 @ LEV = 97.69
			97.69				
		Q-7	7+38.52	0.10	R	T=62	243.81 @ LEV = 243.77
			89.60				
		Q-8	8+28.12	0.00		T=60	89.61 @ LEV = 89.60
			107.94				
		Q-9	9+36.06	0.00		T=60	107.96 @ LEV = 107.94

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LATIGO SHORE LANDSLIDE
JN 0021.82 Tape 196 Std 84 °F
Surveyed by CK LIND
Notes R STRADER Date 12-8-67
Indexed H. E. OTT DEC 1 5 '67

F. B. 3251 PG. 157

Notes Ck'd by	Survey of Latigo Shore Landslide
Map No.	JN 0021.82 Tape 196 Std. 68 °F
Office Work	Surveyed by Lind
Checked	Notes Lind Date 1-11-68
Date	Indexed D.J. GALLI JAN 19 '68

F.B. 3251 Pg. 159

JN 0021.82

LATIGO SHORE LANDSLIDE

HORIZONTAL MOVEMENT OBSERVATIONS

1-11-68

LIND

STRADER

SWANN

MUNOZ

FISHER

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76F309S CE#310 1-65

F.B. 3251 PG. 16

ON LINE	TO	Right or Left	Plus	OFFSET			Notes			
M-1	M-8		0+00.00	0.00	10.00			Sec	EB	23.41	Fla	Course
	M-2		94+37.92					T=62		271.25 @ 1°45' = 271.12
			1+46.89							52.67 @ 4°41' = 52.62
	M-29		96+14.71		15.65		12			323.87
			96.27							
	M-3		97+40.00		0.15		12	T=62		44.38 @ 6°44' = 44.37
			118.88							
	M-4		97+59.46		0.00		12	T=62		23.62 @ 3°44' = 23.62
			101.15							
	M-5A		99+47.11		0.04		12	T=81		119.19 @ 8°59' = 119.08
	M-5B		99+47.11		32.47		11	T=14		287.77 @ 5°37' = 287.15
			590.39		0.00			T=64		
	M-6		101+37.50					T=62		134.56 @ 1°36' = 134.55
			941.31							1.96.01 @ 1°36' = 1.96
	M-7		104+78.81		0.00			T=64		240.99 @ 2°45' = 240.58
								T=62		54.13 @ 1°57' = 54.13
										285.45 @ 1°52' = 285.26
										174.53
										195.58
										240.58
										590.39
										54.13
										285.26
										341.31

Total =

Total =

Total =

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76F309S C.E #310 6-62

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M-2 LINE 1-12-68

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	L./R.	NOTES
RP2	RPY		0+00.00	0.00		
		M-2 AA	1+10.50	0.00		T=62 110.52 LEV = 110.50
			133.04			
		M-2B	2+43.54	4.10	R.	T=62 50.02 LEV = 50.01
			50.01			
		POT	2+93.55	0.00		T=62 185.27 @ 8°49' = 183.05
			127.32			
		POT	4+20.87	0.00		T=62 129.23 @ 9°48' = 127.32
			5.75			
		M-2C	4+26.62	18.34	R.	T=62 5.75 LEV = 5.75
			139.92			
		M-2D	5+66.54	0.29	R.	T=66 49.71 @ 19°02' = 46.98
			46.98			
		POT	6+13.52	0.00		T=66 192.82 @ 2°14' = 192.65

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Latina Shores Lowdale
JN 0021.82 Tape 196 Std 84 °F
Surveyed by Lind
Notes Date 1-12-68
Indexed C. J. GALLI

F. B 3251 PG. 161

F. B. 3251 PG. 102

N - LINE

1-12-68

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R		NOTES		
N-1	N-8		0+00.00	0.00					
		N-2	0+69.03	0.29	R	T=64	6.80 LEV	= 6.80	BACK
			6.80						
		POT	0+75.83	0.00		T=64	75.84 @ LEV	= 75.83	
			91.05						
		POT	1+66.88	0.00		T=66	96.36 @ 19°06'	= 91.05	
			4.35						
		N-3	1+71.23	0.20	R	T=66	4.35 LEV	= 4.35	AHEAD
			113.01						
		POT	2+84.24	0.00	R	T=66	118.91 @ 9°14'	= 117.36	
			8.85						
		N-4A	2+93.09	0.37	R	T=66	8.85 LEV	= 8.85	AHEAD
			126.06						
		N-5	4+19.15	3.78	R	T=66	3.18 LEV	= 3.18	BACK
			3.18						
		POT	4+22.33	0.00		T=66	138.57 @ 4°21'	= 138.09	
			101.81						
		N-5A	5+24.14	30.17	R	T=66	8.38 @ LEV	= 8.38	BACK
			8.38						
		POT	5+32.52	0.00		T=66	110.35 @ 259°	= 110.19	
			76.93						
		N-6	6+09.46	3.09	R	T=66	76.94 LEV	= 76.93	

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O- LINE 1-12-68

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET AMT	L/R	NOTES			
O-1	O-8		0+00	0.00					
		O-2	0+69.35	0.32	R	T=68	69.36	@ LEV =	69.35
			103.37						
		O-3	1+72.72	0.58	R	T=68	109.83	@ 19° 44 =	103.37
			81.01						
		O-4	2+53.73	1.81	R	T=66	192.45	@ 16° 38' =	184.38

P-2A LINE

FROM	TO								
POT	M-5B		0+00.00	0.00					
Nº 3		P-2A	2+07.60	1.82	L.	T=66	207.62	LEV =	207.60

P-4 LINE

FROM	TO								
			0+00.00	0.00					
POT	M5B	P-4A	2+50.46	4.17	L	T=66	250.49	LEV =	250.46
Nº 4									

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Latino Square Landslide
JN 0021.62 Tape 142 Std 64 °F
Surveyed by Lud
Notes Lud Date 1-12-67
Indexed

F. B. 3251 PG. 163

P- LINE

1-11-68

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFF SET AMT	OFF SET L/R	NOTES			
P-1	P-5		0+00.00	0.00					
		POT # 1	0+93.55	0.00		T=66	93.89 @	4°47' =	93.55
			29.95						
		POT #3	1+23.50	0.00		T=66	29.95 @	LEV =	29.95
			60.40						
		P-2	1+83.90	0.00		T=66	60.70 @	5°34' =	60.40
			39.89						
		P-3	2+23.79	0.08	L	T=66	42.39 @	19°45' =	39.89
			32.08						
		POT # 4	2+55.87	0.00		T=66	35.40 @	25°01' =	32.08
			18.47						
		P-4	2+74.34	0.03	R	T=66	21.42 @	30°25' =	18.47
			72.92						
		P-5	3+47.26	0.00		T=66	36.14 @	LEV =	36.14
							39.05 @	19°37' =	36.78
								TOTAL =	72.92

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Q- LINE 1-11-68

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFF SET AMT	OFF SET L/R	NOTES
Q-1	POT		0+00.00	0.00		T= 72 54.68 LEV = 54.68
		Q-2	1+54.42	0.11	R	T= 70 99.75 LEV = 99.74
			171.18			154.42
		Q-3	3+25.60	0.00		T=70 171.20 LEV = 171.18
			121.96			
		Q-4	4+47.56	3.98	R	T=70 47.23 LEV = 47.23 BALK
			47.23			
		POT	4+94.79	0.00		T=70 169.21 LEV = 169.19
			56.74			
		Q-5	5+51.53	4.62	R	T=70 56.75 LEV = 56.74 AN.
			89.30			
		Q-6	6+40.83	4.84	R	T=64 97.77 LEV = 97.76 BK
			97.76			
		Q-7	7+38.59	0.10	R	T=64 243.83 LEV = 243.80
			89.60			
		Q-8	8+28.19	0.00		T=62 89.61 LEV = 89.60
			107.98			
		Q-9	9+36.17	0.00		T=62 108.00 LEV = 107.98

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LATIGO SHORE LANDSCAPE
JN 00 21.82 Tape 196 Std 84 °F
Surveyed by LIND
Notes LIND Date 1-11-68
Indexed C. J. GALLI JAN 1 0 68

F. B. 3258 PG. 165

Notes Ck'd by	Survey of Latigo Shore Landslide
Map No.	JN 0021.82 Tape 156 Std. 24 °F
Office Work	Surveyed by Lind
Checked	Notes Lind Date 2-10-68
Date	Indexed C. J. GALLI MAR 5 68

F. B. 3251 PG. 167

JN 00 21 82

LATIGO SHORE LANDSLIDE

HORIZONTAL MOVEMENT OBSERVATIONS

2-10-68

LIND

SWANN

MUNOZ

FISHER

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76F309S CE#310 1-65

F.B. 3251 PG. 168

M- LINE ✓ 2-10-68

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFF SET AMT	L/R	NOTES
M-1	M-8		0+00.00	0.00		SEE F.B. 2341 FOR CONTROL
		M-2	3+27.85	0.00		T=58 271.30 @ 1°15' = 271.18
			146.85			56.68 @ LEV = 56.67
						TOTAL = 327.85
		M-2A	4+74.70	15.05	R	T=58 66.38 @ LEV = 66.37
			66.37			
		M-3	5+41.07	0.16	R	T=58 213.57 @ 3°06' = 213.22
			118.89			
		M-4	6+59.96	0.00		T=58 119.38 @ 5°05' = 118.89
			287.12			
		M-5A	9+47.08	0.03	R	T=58 287.77 @ 3°42' = 287.12
		M-5B	9+47.08	32.98	L	T=58 134.62 @ 4°16' = 134.23
			590.44			T=58 195.95 @ 3°19' = 195.59
		M-6	15+37.52	0.00		T=58 261.06 @ 3°10' = 260.62
			341.33			TOTAL = 590.44
		M-7	18+78.85	0.00		T=58 285.37 @ 1°18' = 285.25
						56.09 @ LEV = 56.08
						TOTAL = 341.33

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M-2 LINE ✓ 2-14-68

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R		NOTES
RP2	RPY		0+00.00	0.00			
		M-2AA	1+10.53	0.00		T=60	110.55 @ LEV = 110.53
			133.05				
		M-2B	2+43.58	4.07	R	T=60	50.02 @ LEV = 50.01
			50.01				
		POT	2+93.59	0.00		T=60	185.01 @ 8°15' = 183.06
			127.35				
		POT	4+20.94	0.00		T=60	128.89 @ 8°49' = 127.35
			5.75				
		M-2C	4+26.69	18.34	R	T=60	5.75 @ LEV = 5.75
			139.93				
		M-2D	5+66.62	0.28	R	T=60	49.70 @ 18°58' = 46.99
			46.99				
		POT	6+13.61	0.00		T=60	192.75 @ 1°16' = 192.67

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Letter Home Landslide
JN 00216 Tape 196 Std 84 °F
Surveyed by Line
Notes Line Date 2-14-68
Indexed C. J. GALLI

F. B. 3251 PG. 169

F.B. 3251 PG. 176

N- LINE 1

2-15-68

ON LINE From	ON LINE To	RIGHT OF STATION	PLUS	OFFSET AMT	L/R		NOTES
N-1	N-2		0+00.00	0.00			
		N-2	0+69.03	0.29	R	T=60	6.78 @ LEV = 6.78
			6.78				
		Pot	0+75.81	0.00		T=60	75.82 @ LEV = 75.81
			91.05				
		Pot	1+66.86	0.00		T=60	95.69 @ 17°53' = 91.05
			4.35				
		N-3	1+71.21	0.21	R	T=60	4.35 @ LEV = 4.35
			113.05				
		Pot	2+84.26	0.00		T=60	119.15 @ 9°46' = 117.40
			8.85				
		N-4A	2+93.11	0.37	R	T=62	8.85 @ LEV = 8.85
			126.04				
		N-5	4+19.15	3.77	R	T=62	3.18 @ LEV = 3.18
			3.18				
		Pot	4+22.33	0.00		T=62	138.60 @ 4°55' = 138.07
			10.89				
		N-5A	5+24.13	30.15	R	T=62	8.37 @ LEV = 8.37
			8.37				
		Pot	5+32.50	0.00		T=62	110.44 @ 3°50' = 110.17
			76.95				
		N-6	6+09.45	3.08	R	T=62	77.38 @ 5°59' = 76.95

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Date

Survey of Latino Shore Landstar F. B. 3251 PG. 171
JN 0021.82 Tape 1.96 Std 8.4 °F
Surveyed by LIND Date 2-15-68
Notes
Indexed C. J. GALLI

0-LINE ✓ 2-15-68

ON FROM	LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	L/R		NOTES
0-1	0-8		0+00.00	0.00			
		0-2	0+69.32	0.31	R	T=60	69.33 @ LEV = 69.32
		0-3	103.36 1+72.68	0.56	R	T=60	109.37 @ 19°03' = 103.36
		0-4	81.00 2+53.68	1.82	R	T=60	192.47 @ 16°40' = 184.36
Pot No 3	M-5B		P 2 A LINE ✓				
			0+00.00	0.00			
		P-2A	2+07.55	1.82	L	T=60	207.58 @ LEV = 207.55
			P-4 LINE ✓				
FROM	TO		0+00.00	0.00			
Pot No 4	M-5B	P4A	2+50.49	4.17	L	T=60	250.53 @ LEV = 250.49

P- LINE 1

2-13-68

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET AMT	L/R		NOTES
P-1	P-5		0+00.00	0.00			
		POT #2	0+93.52 29.94	0.00		T=60	93.98 @ 5°35' = 93.52
		POT #3	1+23.46 60.40	0.00		T=60	29.94 @ LEV = 29.94
		P-2	1+83.86 39.88	0.00		T=60	61.23 @ 9°24' = 60.40
		P-3	2+23.74 32.10	0.08	L	T=62	42.27 @ 19°19' = 39.88
		POT #4	2+55.84 18.45	0.00		T=62	35.86 @ 26°26' = 32.10
		P-4	2+74.29 36.18	0.03	R	T=60	21.34 @ 30°10' = 18.45
		POT	3+10.42 36.77	0.00		T=60	36.14 @ LEV = 36.13
		P-5	3+47.19	0.00		T=60	38.79 @ 18°32' = 36.77

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Q- LINE 1 2-14-68

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET AMT	L. R		NOTES
Q-1	POT		0+00.00	0.00		T=58	54.68 @ LEV = 54.67
		Q-2	1+54.38	0.11	R	T=58	99.73 @ LEV = 99.71
			171.20				TOTAL = 154.38
		Q-3	3+25.58	0.00		T=58	171.23 @ LEV = 171.20
			121.95				
		Q-4	4+47.53	3.96	R	T=58	47.24 @ LEV = 47.23
		POT	47.23 4+94.76	0.00		T=58	169.21 @ LEV = 169.18
			56.74				
		Q-5	5+51.50	4.62	R	T=58	56.75 @ LEV = 56.74
			89.31				
		Q-6	6+40.81	4.85	R	T=60	97.74 @ LEV = 97.72
			97.72				
		Q-7	7+38.53	0.11	R	T=60	243.81 @ LEV = 243.77
			59 90.58				
		Q-8	8+29.11	0.00		T=60	89.59 @ LEV = 89.58
			7 106.97				
		Q-9	9+36.08	0.00		T=60	107.99 @ LEV = 107.97

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LATIGO MOTOR LANDSLIDE
JN 0021.82 Tape 196 Std 66 °F
Surveyed by LINO
Notes LINO Date 2-16-68
Indexed G. J. GALLI MAR 1 68

F. B 3251 PG. 173

Notes Ck'd by	Survey of LATIGO SHORE LANDSLIDE
Map No.	JN 0021.82 Tape 195 Std 64 °F
Office Work	Surveyed by LINO
Checked	Notes LINO Date 7-2-68
Date	Indexed C. J. GALLI JUL 23 '68

F. B. 3251 PG. 175

JN 0021.82

LATIGO SHORE LANDSLIDE

HORIZONTAL MOVEMENT OBSERVATIONS

7-2-68

WOHES

DIETZ

MUNOZ

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F.B. 3251 PG. 176

M- LINE ✓ 7-2-68

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	L/R	NOTES REF.	FB 2341	FOR	CONTROL
M-1	M-8		0+00.00	0.00		T=70	271.25 @	1°20'	= 271.15
		M-2	3+27.80 ✓	0.00		T=70	56.66 @	LEV	= 56.65
			146.87						327.80 ✓
		M-2A	4+74.67 ✓	15.05	R	T=70	66.33 @	LEV	= 66.32
			66.32						
		M-3	5+40.99 ✓	0.15	R.	T=70	213.47 @	2°51'	= 213.19
			118.88						
		M-4	6+59.87 ✓	0.00		T=70	119.10 @	3°22'	= 118.88
			287.13						
		M-5A	9+47.00 ✓	0.04	R	T=70	287.66 @	3°23'	= 287.13
		M-5B	9+47.00	32.95	L.	T=74	135.29 @	3°17'	= 135.06
			590.41			T=74	195.15 @	3°43'	= 194.73
		M-6	15+37.41 ✓	0.00		T=74	260.98 @	2°56'	= 260.62
			341.27						590.41 ✓
		M-7	18+78.68 ✓	0.00		T=74	285.26 @	1°34'	= 285.14
							56.34 @	4°57'	= 56.13
									341.27 ✓

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M-2 LINE ✓ 7-5-68

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	L/R	NOTES
RP 2	RP Y		0+00.00	0.00		
		M 2 A A	1+10.49	0.00		T= 70 110.50 LEV = 110.49
			133.05			
		M-2 B	2+43.54	4.09	R	T= 70 50.99 LEV = 50.99
			50.99			
		POT	2+94.53	0.00		T= 70 165.94 @ 8°09' = 164.04
			129.57			
		POT	4+24.10	0.00		T= 70 131.04 @ 8°34' = 129.57
			2.56			
		M-2 C	4+26.66	18.39	R	T=70 2.56 LEV = 2.56
			139.85			
		M 2 D	5+66.51	0.34	R	T=70 49.28 17°31' = 47.00
			47.00			
		POT	6+13.51	0.00		T=70 169.50 @ 1°53' = 169.41

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Survey of Latigo Shore Conduction
JN 4021.92 Tape 145 Std 84° °F
Surveyed by LWD
Notes Date 7-5-68
Indexed C. T. GALLI

F. B. 3751 PG. 177

F.B. 3251 PG 178

N-LINE ✓ 7-3-68

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET AMT	L/R	NOTES			
N-1	M-8		0+00.00	0.00					
		N-2	0+69.04	0.32	R	T=78	-6.75 LEV	=	6.75
		POT	0+75.79	0.00		T=78	75.79 LEV	=	75.79
		POT	1+66.83	0.00		T=78	95.82 @ 18°10'	=	91.04
		N-3	1+71.19	0.19	R	T=78	+4.36 @ LEV	=	4.36
		POT	2+84.29	0.00		T=78	119.04 @ 9°20'	=	117.46
		N 4 A	2+93.14	0.42	R	T=78	8.85 @ LEV	=	8.85
		POT	4+12.06	0.00		T=76	128.24 @ 4°51'	=	127.77
		N-5	4+19.19	3.84	R	T=76	7.13 @ LEV	=	7.13
		N 5 A	5+24.18	30.17	R	T=76	-6.47 @ LEV	=	6.47
		POT	5+30.65	0.00		T=76	118.72 @ 2°37	=	118.59
		N-6	6+09.48	3.11	R	T=76	78.83 @ LEV	=	78.83

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Survey of Latino Shore Landslide
JN 0021.52 Tape 145 Std. 54 °F
Surveyed by Lind
Notes Lind Date 7-8-68
Indexed C. J. GALLI

F. B. 3251 PG. 179

O- LINE ✓ 7-8-68

ON FROM	LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	L/R	NOTES
O-1	M-8		0+00.00	0.00		
		O-2	0+69.38	0.33	R	T=76 69.38 @ LEV = 69.38
		O-3	1+72.76	0.56	R	T=76 109.70 @ 19°32' = 103.38
		O-4	2+53.77	1.84	R	T=76 192.60 @ 16°47' = 184.39

P-2A LINE ✓

POT Nº 3	M-5B		0+00.00	0.00		
		P-2A	2+07.55	1.82	L	T=82 207.55 LEV = 207.55

P-4 LINE ✓

FROM	TO					
POT Nº 4	M-5B		0+00.00	0.00		
		P4A	2+50.48	4.17	L	T=82 250.48 LEV = 250.48

F.B. 3251 PG 180

P-LINE ✓ 7-8-68

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	L/R	NOTES
P-1	P-5		0+00.00	0.00		
		POT # 1	0+43.53	0.00		T=76 93.56 @ 1°50' = 93.53 ✓
		POT # 3	1+23.48	0.00		T=76 29.95 @ 0°00' = 29.95 ✓
		P-2	1+83.88	0.00		T76 60.75 @ 6°07' = 60.40 ✓
		P-3	2+23.80	0.06	L	T=74 42.25 @ 19°06' = 39.92 ✓
		POT # 4	2+55.89	0.00		T=74 35.04 @ 23°41' = 32.09 ✓
		P-4	2+74.35	0.03	R	T=78 21°56 @ 31°05' = 18.46 ✓
		POT	3+10.46	0.00		T=78 36.11 @ LEV = 36.11 ✓
		P-5	3+47.24	0.00		T=78 38.81 @ 18°36' = 36.78 ✓

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Q - LINE

ON LINE FROM	TO	SIGHT ON STATION	PLUS	OFFSET AMT	L/R	NOTES		
Q-1	POT		0+00.00	0.00				
		Q-2	1+54.41 ✓ 171.19	0.12	R	T=80	154.41	LEV = 154.41
		Q-3	3+25.60 ✓ 121.92	0.00		T=70	171.21	LEV = 171.19
		Q-4	4+47.52 ✓ 47.22	4.03	R	T=70	47.22	LEV = 47.22
		POT	4+94.74 ✓ 56.73	0.00		T=70	169.16	LEV = 169.14
		Q-5	5+51.47 ✓ 89.31	4.68	R	T=74	56.73	LEV = 56.73
		Q-6	6+40.78 ✓ 97.70	4.89	R	T=74	97.71	LEV = 97.70
		Q-7	7+38.48 ✓ 89.55	0.15	R	T=74	243.76	LEV = 243.74
		Q-8	8+28.03 ✓	0.02	R	T=74	89.56	LEV = 89.55
		Q-9	NO MEAS THIS TIME UNDER LARGE "TRAILER"					

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Checked
Date

Survey of LATIGO SHORE LINDSIDE F. B. 3251 PG. 181
JN 0021.32 Tape 145 Std 84 °F
Surveyed by LINO
Notes LINO Date
Indexed C. J. GALLI JUN 23 1988

Notes Ck'd by	Survey of Latigo Shore Landslide F. B. 3251 PG. 183
Map No.	JN 0021.82 Tape 99 Std 84 °F
Office Work	Surveyed by Lind
Checked	Notes Lind Date 1-9-69
Date	Indexed [illegible]

J.N. 0021.82

LATIGO SHORE LANDSLIDE

HORIZONTAL MOVEMENT OBSERVATION

1-9-69

LIND

JONES

McCALL

MUNOZ

FISHER CO.

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76F309S CE#310 1-65

F. B. 3251 PG. 184

M- LINE DATE 1-9-69

ON LINE FROM	TO	LIGHT ON STATION	PLUG	OFFSET AMT	L/R	NOTES	
M-1	M-2		0+00.00	0.00		T = 58°	218.12 @ 1°08' = 218.08
		M-2	3+27.84	0.00		T = 58	109.78 @ Lev = 109.76
			146.84				327.84
		M-2A	4+74.68	15.07	R	T = 58°	66.36 @ Lev = 66.35
			66.35				
		M-3	5+41.03	0.15	R	T = 58°	213.51 @ 2°57' = 213.19
			118.88				
		M-4	6+59.91	0.00		T = 68	119.25 @ 4°26' = 118.88
			287.09				
		M-5A	9+47.00	0.04	R	T = 62	287.70 @ 3°36' = 287.09
		M-5B	9+47.00	32.95	L	T = 62	135.43 @ 4°07' = 135.06
			590.37			T = 62	195.10 @ 3°29' = 194.71
		M-6	15+37.37	0.00		T = 62	148.95 @ 3°44' = 148.61
			341.26			T = 62	112.10 @ 2°18' = 111.99
							590.37
		M-7	18+78.63	0.00		T = 62	56.59 @ 6°05' = 56.26
						T = 62	285.14 @ 1°34' = 285.00
							341.26

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M-2 LINE DATE 1-10-69

On Line From	To	Sight on Station	Plus	Offset Amt	L/R	Notes
RPZ	RPY		0+00.00	0.00		
		M-2 HA	1+10.48	0.00		T = 58° 110.50 @ Lev = 110.48
			133.03			
		M-2 B	2+43.51	4.10	R	T = 58° 51.06 @ Lev = 51.05
			51.05			
		POT	2+94.56	0.00		T = 58° 186.28 @ 8°46' = 184.08
			129.87			
		POT	4+24.43	0.00		T = 60 131.44 @ 8°49' = 129.87
			2.22			
		M-2 C	4+26.65	18.42	R	T = 60 2.22 @ Lev = 2.22
			139.87			
		M-2 D	5+66.52	0.35	R	T = 60 49.74 @ 19°06' = 46.99
			46.99			
		POT	6+13.51	0.00		T = 60 189.17 @ 1°27' = 189.08

Notes Ck'd by
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Office Work
Checked
Date

Survey of Latigo Shore Landslide
JN 00 C1.52 Tape 99 Std 84 °F
Surveyed by Lind
Notes Lind Date 1-10-69
Indexed

F. B. 3251 PG. 185

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F. B. 3251 Pg 186

76F309S CE#310 1-65

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O - LINE 1-10-69

On Line From	To	Sight on Station	Pluss	Offset Amt	L/R	Notes
O-1	M-8		0+00	0.00		
		O-2	0+69.34	0.33	R.	T= 64= 69.35 Lev = 69.34
			103.42			
		O-3	1+72.76	0.56	R.	T= 64= 110.40 @ 20°28' = 103.42
			81.00			
		O-4	2+53.76	1.84	R.	T= 64 192.57 @ 16°42' = 184.42
			P-2A LINE			
Pot #3	M5B		0+00	0.00		
		P-2A	2+07.55	1.82	L.	T= 58 207.59 Lev = 207.55
			P-4 LINE			
Pot #4	M5B		0+00	0.00		
		P4A	2+50.48	4.17	L.	T= 58 250.52 Lev. = 250.48

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Latigo Shore Landslide
JN 0021-62 Tape 99 Std. 84 °F
Surveyed by Lind
Notes Lind Date 1-10-69
Indexed [illegible]

F. B 3251 PG. 187

F.B. 3251 PG 188

P - LINE DATE 1-13-69

On Line From	To	Sight on Station	Plus	Offset Amt	L/R	Notes
P-1	P-5		0+00	0.00		
		Pat #1	0+93.57	0.00		∠= 58° 93.59 @ 1°45' = 93.57
			29.92			
		Pat # 3	1+23.49	0.00		∠= 58° 29.93 @ Lev = 29.92
			60.39			
		P-2	1+83.88	0.40		∠= 58° 60.72 @ 5°56' = 60.39
			39.88			
		P-3	2+23.76	0.47	L.	∠= 58° 42.78 @ 21°11' = 39.88
			32.10			
		Pat # 4	2+55.86	0.00		∠= 58° 34.73 @ 23°12' = 32.10
			18.46			
		P-4-(A)	2+74.32	0.23	R.	∠= 58° 18.46 @ Lev = 18.46
			36.13			
		Pat	3+10.45	0.00		∠= 64 36.13 Lev = 36.13
			36.79			
		P-5	3+47.24	0.00		∠= 64 38.70 @ 18°01' = 36.79

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Q - LINE DATE 1-14-69

On Line From	To	Sight on Station	Plus	Offset Amt	L/R	Notes		
Q-1	Pot		0+00	0.00			TEMP. =	62°
		Pot	0+54.68	0.00		54.69	Lev =	54.68
		Q-2	99.71 1+54.39	0.12	R	99.72	Lev =	99.71
		Q-3	171.18 3+25.57	0.00		171.20	Lev =	171.18
		Q-4	121.94 4+47.51	4.03	R	47.22	Lev =	47.21
		Pot	47.21 4+94.72	0.00		169.17	Lev =	169.15
		Q-5	56.72 5+51.44	4.68	R	56.73	Lev =	56.72
		Q-6	89.34 6+40.78	4.89	R	99.72	Lev =	97.71
		Q-7	97.71 7+38.49	0.15	R	243.80	Lev =	243.77
		Q-8	89.56 8+28.05	0.02	R	89.57	Lev =	89.56
		Q-9	107.95 9+36.00	0.00		107.97	Lev =	107.95

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Latigo Shore Landline
JN 2021.81 Tape 99 Std 84 °F
Surveyed by Lino
Notes
Indexed [redacted] Date 1-14-69

F. B. 3261 PG. 189

Notes Ck'd by	Survey of LATIGO SHORE SLIDE
Map No.	JN 0021.82 Tape 190 Std 84 °F
Office Work	Surveyed by LIND
Checked	Notes LIND Date 2-3-69
Date	Indexed C. J. GALLI FEB 17 '69

F. B. 3251 PG. 191

W.N. 0021.82

LATIGO SHORE LANDSLIDE

HORIZONTAL MOVEMENT OBSERVATION

2-3-69

LIND

WONES

MANLEY

FISHER CO.

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F. B. 3251 PG 192

M-LINE — DATE 2-3-69

On Line From	On Line To	Sight on Station	Plus	Offset Amt.	L/R	Notes	
M-1	M-8		0+00.00	0.00		TEMP =	68°
		M-2	3+27.87	0.00		271.33 @ 1°21' =	271.22
						56.66 @ LEV =	56.65
							327.87
			146.90				
		M-2A	4+74.77	15.14	R.	66.33 @ LEV =	66.32
			66.32				
		M-3	5+41.09	0.18	R	213.67 @ 3°39' =	213.22
			118.92				
		M-4	6+60.01	0.00		119.27 @ 4°19' =	118.92
			287.11				
		M-5A	9+47.12	0.44	R.	287.74 @ 3°41' =	287.11
						135.58 @ 4°59' =	135.44
		M-5B	9+47.12	32.93	L.	195.27 @ 4°06' =	194.75
						148.80 @ 2°42' =	148.62
			590.41				
		M-6	15+37.53	0.00		112.03 @ 1°34' =	111.98
							590.41
			341.26				
		M-7	18+78.79	0.00		57.05 @ 6°31' =	56.67
						284.72 @ 1°33' =	284.59
							341.26

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M-2 - LINE DATE 2-4-69

ON LINE FROM	TO	SIGHT ON STATION	PLUS	OFFSET AMT	L/R	NOTES
RP2	RPY	0+00.00	0+00.00	0.00		TEMP = 66°
		M-2 AA	1+10.51	0.00		110.52 @ Lev = 110.51
			133.11			
		M-2 B	2+43.62	4.16	R	51.13 @ Lev = 51.12
			51.12			
		Pot	2+94.74	0.00		186.53 @ 8° 53' = 184.23
			131.61			
		Pot	4+26.35	0.00		133.55 @ 9° 44 = 131.61
			0.38			
		M-2 C	4+26.73	18.51	R	0.38 @ Lev = 0.38
			139.91			
		M-2 D	5+66.64	0.50	R	50.16 @ 20° 45' = 46.90
			46.90			
		Pot	6+13.54	0.00		187.24 @ 1° 03' = 187.19

Notes Ck'd. by
Map No.
Office Work
Checked
Date

Survey of LATIGO SHORE
JN 8021.12 Tape 190 Std. 84 °F
Surveyed by LWD
Notes Date 2-4-69
Indexed C.J. GALLI

F.B. 3751 PG. 193

F.-B. 1251 PG 194

N- LINE — DATE 2-4-69

NOTES 2-4-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	L/R		NOTES			
M-1	M-8		0+00.00	0.00						
		N-2	0+69.05	0.35	R	T=72	6.86 @	Lev	=	6.86
			6.86							
		Pot	0+75.91	0.00	R	T=72	75.92 @	Lev	=	75.91
			95.30							
		N-3	1+71.21	0.22	R	T=72	100.55 @	18°35'	=	95.30
			97.57							
		Pot	2+68.78	0.00		T=72	98.98 @	9°39'	=	97.57
			24.38							
		N-4A	2+93.16	0.59	R	T=72	24.38 @	Lev	=	24.38
			126.08							
		N-5	4+19.24	3.92	R.	T=66	122.74 @	Lev	=	122.73
			105.02							
		N-5A	5+24.26	3.21	R	T=66	17.71 @	Lev	=	17.71
			17.71							
		Pot	5+41.97	0.00		T=66	273.22 @	Lev	=	273.19
			67.60							
		N-6	6+09.57	3.16	R.	T=66	67.61 @	Lev	=	67.60

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Date

Survey of LATIGO SHORE
JN 62152 Tape 190 Std 84 °F
Surveyed by LIND
Notes LINE Date 2-5-69
Indexed C. J. GALLI

F. B. 3251 PG. 105

√ Q- LINE

ON FROM	LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	L/R	NOTES	2-5-69
Q-1	M-8		0+00	0.00		T=66°	
		Q-2	0+69.34	0.34	R	69.35 LEV	= 69.34
		Q-3	1+72.86 81.02	0.59	R	118.31 @ 20° 12'	= 163.52
		Q-4	2+53.88	1.83	R	192.24 @ 16° 14'	= 184.54
POT No 3	M-5B		√ P-2A LINE				
		P-2A	2+07.60	1.82	L	T=66 207.62 LEV	= 207.60
POT	M-5B		√ P-4 LINE				
						T=61°	
		P-4A	2+50.48	4.19	L	250.51 LEV	= 250.48

F.B. 3251 PG 196

R Line — Date 2-5-49

On Line From	On Line To	Sight on Station	Plus	Offset Amt.	Offset L/R	Notes
P-1	P-5		0+00.00	0.00		T = 66°
		Pot # 1	0+93.55	0.00		93.56 Lev. = 93.55'
		Pot # 3	1+23.50	0.00		29.95 Lev = 29.95'
		P-2	1+83.92	0.00		60.88 @ 6° 58' = 60.42'
		P-3	2+23.82	0.08	L.	42.27 @ 19° 14' = 39.90'
		Pot # 4	2+55.92	0.00		35.48 @ 25° 13' = 32.10'
		P-4	2+74.36	0.03	R.	21.71 @ 31° 51' = 18.44'
		Pot	3+16.49	0.00		36.14 @ Lev = 36.13'
		P-5	3+47.24	0.00		39.19 @ 20° 19' = 36.75'

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Q- LINE DATE 2-5-69

ON LINE FROM	TO	SHUNT ON STATION	PLUS	OFFSET AMT.	L/R	NOTES			T= 66°
Q-1	POT		0+00.00	0.00		54.70	LEV=		54.69 ✓
		POT	0+54.69	0.00					
		Q-2	1+54.40	0.11	R	99.74	LEV=		99.73 ✓
		Q-3	3+25.61	0.00		171.21	LEV=		171.19 ✓
		Q-4	4+47.59	4.07	R	121.99	LEV	=	121.98 ✓
		Q-5	5+51.55	4.73	R	103.97	LEV	=	103.96 ✓
		Q-6	6+40.88	4.94	R	89.34	LEV	=	89.33 ✓
		Q-7	7+38.60	0.18	R	97.73	LEV	=	97.72 ✓
		Q-8	8+28.17	0.00		89.58	LEV	=	89.57 ✓
		Q-9	9+36.15	0.00		107.99	LEV	=	107.98 ✓

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LONG SHORE LANDS LOA
JN 0021.82 Tape 196 Std 84 °F
Surveyed by LIND
Notes Date 2-5-69
Indexed C. J. GALLI

F. B. 32 51 PG. 197

Notes Ck'd by	Survey of LATIGO SHORE SLIDE
Map No:	JN 0021.82 Tape 1.50 Std 84 °F
Office Work	Surveyed by LIND
Checked	Notes LIND Date 2-14-69
Date	Indexed C.J. GALLI FEB 17 69

F. B. 3251 Pg. 199

J.N. 0021.82

LATIGO SHORE LANDSLIDE

HORIZONTAL MOVEMENT OBSERVATION

"Q" = LINE ONLY

2-14-69

LIND

JONES

MANLEY

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403 Los Angeles County Engineering Bldg.

76F309S CE#310 1-65

F.B. 3261 PG 200

"Q" LINE

2-14-69

On Line From	To	Sight on Station	Plus	Off Set Amt.	L./R.	Notes		
Q-1	Pot		0+00.00			Temp. = 60		
		Pot	0+54.67	0.04		54.68	Lev =	54.67'
		Q-2	1+54.38	0.12	R.	99.73	Lev =	99.71'
		Q-3	3+25.57	0.00		171.22	Lev =	171.19'
		Q-4	4+47.56	4.09	R	122.01 ~~122.08~~	Lev =	121.99' ~~122.06~~
		Q-5	5+51.49	4.76	R	103.95	Lev =	103.93'
		Q-6	6+40.81	4.98	R.	89.33	Lev =	89.32'
		Q-7	7+38.53	0.22	R	97.74	Lev =	97.72'
		Q-8	8+28.10	0.00		89.58	Lev =	89.57'
		Q-9	9+36.07	0.00		107.99	Lev =	107.97'

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Notes Ck'd by	Survey of Latigo Shore Slide
Map No.	JN 0021.82 Tape 190 Std 84 °F
Office Work	Surveyed by Lind
Checked	Notes Lind Date 2-28-69
Date	Indexed [redacted] GALLI [redacted] 5 '69

F. B. 3251 PG. 201

W. No. 0021.82

LATIGO SHORE LANDSLIDE

HORIZONTAL MOVEMENT OBSERVATION

"Q" LINE ONLY

2-28-69

LIND

JONES

MANLEY

FISHER LD.

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76F309S CE#310 3-68

Q — LINE 2-28-68

F.B. 3257 PG. 202

ON FROM	LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	L/R	NOTES.			
Q-1	POT		0+00.00			T = 56			
		POT	0+54.69	0.00		54.70	LEV.	=	54.69'
		Q-2	1+54.42	0.12	R	99.75	LEV	=	99.73'
		Q-3	3+25.60	0.00		171.21	LEV	=	171.18'
		Q-4	4+47.63	4.29	R.	122.05	LEV	=	122.03'
		Q-5	5+51.55	4.98	R.	103.94	LEV	=	103.92'
		Q-6	6+40.85	5.17	R.	89.32	LEV	=	89.30'
		Q-7	7+38.52	0.37	R.	97.69	LEV	=	97.67'
		Q-8	8+28.04	0.00		89.54	LEV	=	89.52'
		Q-9	9+35.98	0.00		107.96	LEV	=	107.94'

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Notes Ck'd by	Survey of Latigo Shore Slide
Map No.	JN 0021.82 Tape 170 Std 32 °F
Office Work	Surveyed by Lind
Checked	Notes Lind Date 3-14-69
Date	Indexed C.L. BALLI 2 4 '69

F. B. 3251 PG. 203

JN 0021.82

LATIGO SHORE LANDSLIDE

HORIZONTAL MOVEMENT OBSERVATIONS

3-14-69

LIND

JONES

MANLEY

FISHER L.O.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3095 CE#310 3-68

F. B. 3251 PG. 204

M- LINE ✓

DATE 3-17-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	DIST	OFFSET AMT	L/R	NOTES
M-1	M-8					TEMP. = 62°
						271.28 @ 1°27' = 271.15
		M-2	3+27.81' (147.03)	0.00		56.67 @ LEV = 56.66
						TOTAL = 327.81 ✓
		M-2A	4+74.84' (66.19)	15.44	R	66.20 LEV = 66.19
		M-3	5+41.03'	0.21		213.59 @ 3°14' = 213.22
		M-4	6+59.93'	0.00		119.34 @ 4°48' = 118.90 ✓
		M-5A	9+47.01'	0.04	R	287.91 @ 3°40' = 287.08
		M-5B	Station M-5-B Destroyed By Slide Nothing ReSet.			
		M-6	15+37.41'	0.03	R	135.43 @ 4°08' = 135.06
						195.08 @ 3°21' = 194.72
						261.08 @ 2°15' = 260.62
		M-7	18+78.69'	0.00		TOTAL = 590.40 ✓
						78.15 @ 6°22' = 77.66
						263.46 @ LEV = 263.62
						341.28 ✓

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M-2 LINE ✓ DATE 3-17-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	OFFSET L/R	NOTES
M-1	M-2					TEMP. = 66°
		M-2 AA	1+10.50	0.00		110.51 @ LEV = 110.50'
			133.44			
		M-2 B	2+44.14	5.06	R.	51.67 LEV = 51.66
			51.66			
		POT	2+95.80	0.00		187.71 @ 9°09' = 185.30
		POT	4+26.87	0.00		132.93 @ 9°33' = 131.07'
		M-2 C	4+27.19	19.33	R.	0.32 LEV = 0.32'
			139.19			
		M-2 D	5+66.98	1.29	R.	186.67 @ 0°53' = 186.63
		POT	6+13.50	0.00		46.53 @ LEV 46.52'

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LATIGO 3402.25 PLATE
JN 02182 Tape 1-90 Std. 84 °F
Surveyed by LIND
Notes LIND Date 3-17-69
Indexed [redacted]

F. B. 3251 PG. 205

F.B. 3251 PG 206

N- LINE ✓ DATE 3-19-64

On Line From	On Line To	Sight on Station	Plus	Offset Amt	Offset L/R	Notes			
M-1	M-2					TEMP= 64°			
		N-2	0+49.04'	0.34	R	- 6.90	LEV	=	6.90
			6.94						
		Pat	0+75.94'	0.00		75.95	LEV	=	75.94
		N-3	1+71.20'	0.21	R	100.96	@ 19°20'	=	95.26
		Pat	2+62.18'	0.00		92.71	@ 11°03'	=	90.98
		N-4A	2+93.53'	1.39	R	31.35	@ LEV	=	31.35
			126.13						
		N-5	4+19.66'	4.51	R	122.81	@ LEV	=	122.79
			104.98						
		N-5A	5+24.64'	3.67	R	17.81	@ LEV	=	17.81
			17.81						
		Pat	5+42.45'	0.00		280.31	LEV	=	280.27
			61.48						
		N-6	6+03.93'	3.56	R	67.49	LEV	=	67.44

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O- LINE ✓ DATE 3-18-69

ON FROM	LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	OFFSET L/R	NOTES		
O-1	M-8						TEMP. =	66°
		POT	0+62.03'	0.00		62.04	LEV =	62.03'
		O-2	0+69.53'	0.42	R.	7.50	LEV =	7.50'
			102.75					
		O-3	1+73.28'	0.71	R.	117.23	@ 18°22' =	111.25
			81.16					
		O-4	2+54.44'	2.11	R.	200.66	@ 16°28' =	192.41

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LATIGO SHORES SHIP
JN 27124 Tape 190 Std 54 °F
Surveyed by LIND
Notes LIND Date 3-18-69
Indexed R.D. GALLI

F. B. 3251 PG. 207

F.B. 3251 PG 208

P- LINE ✓ DATE 3-18-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	OFFSET L/R		NOTES		
P-1	P-5								
		Pot #1	0+93.53	0.00		T=66°	93.54 @	LEV =	93.53
		Pot #3	1+21.47	0.00		T=66°	29.94 @	LEV =	29.94
		P-2A	1+55.48 (2840)	205.07	L	T=66	32.01 @	LEV =	32.01
		P-2	1+83.88	0.02	L	T=66	60.65 @	4°37' =	60.41
		P-3	2+23.81	0.08	L	T=66	42.77 @	20°58' =	39.73
		Pot #4	2+55.90	0.00		T=58	35.01 @	23°32' =	32.09
		P-4A	2+61.71 (12.41)	250.44	L	T=58	5.81 @	LEV =	5.81
		P-4	2+74.32	0.03	R	T=58	21.85 @	32°21' =	18.42
		Pot	3+10.47	0.00		T=58	34.16 @	LEV =	36.15
		Q-1	3+47.21	0.00		T=58	38.57 @	17°41' =	36.74

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Q- LINE DATE 3-14-69

Ck Line From	Ck Line To	Sight on Station	Plus	Offset Amt	Offset L/R	Notes		
Q-1	Pot					TEMP =	76°	
		Pot	0+54.68	0.00		54.68	@ Lev =	54.68
		Q-2	1+54.38	0.13	R.	99.71	@ Lev =	99.70
		Q-3	3+25.57	0.00		171.20	@ Lev =	171.19
		Q-4	4+47.67	4.51	R.	122.11	@ Lev =	122.10
		Q-5	5+51.57	5.25	R.	103.91	@ Lev =	103.90
		Q-6	6+40.88	5.42	R.	89.31	@ Lev =	89.31
		Q-7	7+38.53	0.56	R.	97.66	@ Lev =	97.65
		Q-8	8+28.05	0.00		89.52	@ Lev =	89.52
		Q-9	9+35.99	0.00		107.95	@ Lev =	107.94

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Lastico Shore Line
JN 00 [illegible] Tape [illegible] Std [illegible] °F
Surveyed by [illegible]
Notes [illegible] Date 3-14-69
Indexed D.L. GALLI

F. B. [illegible] PG. 209

Notes Ck'd by	Survey of Latigo Shore Landslide
Map No.	JN 0021.62 Tape 190 Std 84 °F
Office Work	Surveyed by LHD
Checked	Notes LHD Date 3-28-69
Date	Indexed [illegible] APR 5-69

F. B. 3251 PG. 211

J.N. 0021.62

LATIGO SHORE LANDSLIDE

HORIZONTAL MOVEMENT STUDY

℄-LINE ONLY

3-28-69

LHD

VANES

MANLEY

FISHER CO.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-68

Q- LINE

3-28-69

On Line From	On Line To	Sight on Station	Plus	Offset Amt.	Offset L/R		Notes
Q-1	Pot		0+00.00				TEMP = 68°
		Pot	0+54.71	0.00		54.72	LEV = 54.71
		Q-2	1+54.41	0.13	R	99.71	LEV = 99.70
		Q-3	3+25.59	0.00		171.20	LEV = 171.18
		Q-4	4+47.73	4.62	R	122.15	LEV = 122.14
		Q-5	5+51.64	5.36	R	103.92	LEV = 103.91
		Q-6	6+48.95	5.51	R	89.32	LEV = 89.31
		Q-7	7+38.58	0.62	R	97.64	LEV = 97.63
		Q-8	8+28.08	0.00		89.51	LEV = 89.50
		Q-9	9+36.04	0.00		109.97	LEV = 109.96

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Notes Ck'd by	Survey of Latigo Shore Slide
Map No.	JN 0021.82 Tape/82 Std. 82 °F
Office Work	Surveyed by LWD
Checked	Notes LWD Date 2-10-69
Date	Indexed C. J. GALLI APR 1 8 '69

F. B. 7251 PG. 213

J.N. 0021.82

LATIGO SHORE LANDSLIDE

HORIZONTAL MOVEMENT STUDY

4-16-69

LWD

JONES

MANLEY

FIXED L.O.

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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

16F309S CE#310 3-68

F.B. 3251 PG 214

Q- LINE 4-11-69

On Line From	To	Sight on Station	Plus	Offset Amt	L / R		Notes	
Q-1	Pot						TEMP = 72°	
		Pot	0+54.69	0.00		54.70	Lev =	54.69'
		Q-2	1+54.39	0.13	R	99.71	Lev =	99.70'
		Q-3	3+25.59	0.00		171.22	Lev =	171.20'
		Q-4	4+47.76	4.71	R	122.18	Lev =	122.17'
		Q-5	5+51.68	5.44	R	103.93	Lev =	103.92'
		Q-6	6+40.99	5.10	R	89.32	Lev =	89.31'
		Q-7	7+38.01	0.67	R	97.63	Lev =	97.62'
		Q-8	8+28.12	0.00		89.50	Lev =	89.49'
		Q-9	9+36.06	0.00		107.96	Lev =	107.95'

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Notes Ck'd by	Survey of LATIGO SHORES LANDSLIDE
Map No.	JN 0021.B2 Tape Std °F
Office Work	Surveyed by PETERSON
Checked	Notes T.C.P. Date 6-69
Date	Indexed C.J. GALLI 9-69

F. B. 3251 PG. 215

J.N. 0021.B2

LATIGO SHORES LANDSLIDE

HORIZONTAL MOVEMENT OBSERVATIONS

PETERSON T.C.
MANLEY
MUNOZ

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76F309S CE#310 3-68

M - LINE ✓ DATE 6-26-69

F.B. 3251 PG. 216

FROM	TO	SIGHT ON STATION	PLUS	OFFSET AMT	OFFSET L/R	NOTES	
M1	M8	0+00		0.00		T = 72	
		M-2	3+27.88	0.00		271.32 @ 1°22 = 271.22	
			14+77.08			56.67 @ LEV = 56.66	
						327.88	
		M-2A	4+74.96	15.61	R	66.12 @ LEV = 66.11	
			66.12				
		M-3	5+41.08	0.21	R	213.55 @ 3°11' = 213.20	
		M-4	6+60.00	0.00		119.27 @ 4°20' = 118.92 ✓	
		M-5A	9+47.12	0.04	R	287.71 @ 3° 36' = 287.12 ✓	
		M-5B	STATION	M-5B		DESTROYED BY SLIDE NOT	RESET
						T=80	
		M-6	15+37.53	0.03	R	135.48 @ 4°31' = 135.05	
						195.11 @ 3°26' = 194.75	590.41 ✓
						261.08 @ 3°23' = 260.61	
		M-7	18+78.83	0.00		78.08 @ 5°30' = 77.72	
						263.63 @ 0° 58' = 263.58	341.30 ✓

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M-2 LINE ✓ DATE 6-27-69

ON LINE FROM	TO	SIGHT ON STATION	PLUS	OFFSET AMT	L/R	NOTES		
M 1	M 8							
							T=78	
		M-2 AA	1+10.49	0.00		110.49	@ LEV =	110.49
			134.10					
		M-2 B	2+44.59	5.41	R	52.16	@ LEV =	52.16
			52.16					
		P.O.T.	2+96.75	0.00		188.63	@ 9°04' =	186.26
			130.47				T=68	
		P.O.T.	4+27.22	0.00		132.09	@ 8°58' =	130.47
			0.25					
		M-2 C	4+27.47	19.82	R	0.25	@ LEV =	0.25
			139.83					
		M 2 D	5+67.30	1.58	R	186.38	@ 1°23' =	186.31
			46.48					
		P.O.T.	6+13.78	0.00		46.49	@ LEV =	46.48

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LAT/BD SHORES LANDSLIDE
JN 0021.82 Tape Std °F
Surveyed by PETERSON
Notes T.C.P. Date 6-69
Indexed C. J. GALLI JR 9-69

F.B. 325 PG. 217

F.B. 3251 PG. 218

N-LINE ✓

DATE 6-27-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMOUNT	OFFSET L/R	NOTES
M1	M8		0+00			T=70
		N-2	0+69.05	0.37	R	69.05 @ LEV = 69.05
		P.O.T.	0+75.96 6.91	0.00		6.90 @ LEV = 6.90
		N-3	1+71.28 95.32	0.22	R	100.45 @ 18°21' = 95.32 ✓
		P.O.T.	2+62.21	0.02	R	93.53 @ 13°31' = 90.93 ✓
		N-4A	2+93.82	1.39	R	31.61 @ LEV = 31.61 ✓
						T=82
		N-5	4+20.01	4.85	R	126.19 @ LEV = 126.19 ✓
		N-5A	5+24.99	30.96	R	104.98 @ LEV = 104.98 ✓
		P.O.T.	5+42.75	0.00		17.76 @ LEV = 17.76 ✓
		N-6	6+10.24	3.80	R	67.49 @ LEV = 67.49 ✓

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76F3095 CE#310 3-68

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O - LINE ✓ DATE 6-27-69

ON LINE FROM	TO	SIGHT ON STATION	PLUS	OFFSET AMOUNT	L/R	NOTES
O-1	M-8					
						J=70
		P.O.T.	0+63.61	0.00		63.62 @ LEV= 63.61
		O-2	STATION O-2 DESTROYED BY SLIDE (NOT RESET) 6-27-69			
		O-3	1+73.57	0.80	R	117.00 @ 19°58' = 109.96 ✓
		O-4	81.28 2+54.25	2.28	R	198.96 @ 16°00' = 191.24

Notes Ck'd by
Map No.
Office Work
Checked
Date

LATIGO SHOLES LANDSLIDE
Survey of
JN 002182 Tape Std °F
Surveyed by PETERSON
Notes T.C.P. Date 6-69
Indexed D.H. BALLA JUL 9 '69

F.B. 3251 PG. 219

P- LINE

DATE 6-30-69

F.B. 3251 PG 220

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMOUNT	OFFSET L/R		NOTES	
P-1	P-5						T=80	
		P.O.T. # 1	0+93.55	0.00		93.00 @	LEV	93.55
		P.O.T # 3	1+23.53	0.00		29.98 @	LEV=	29.98
		P-2 A	1+55.52	205.08	L	31.99 @	LEV=	31.99
		P-2	28.40 1+83.93	0.02	L	60.68 @	5°33' =	60.40
		P-3	39.95 2+23.83	0.08	L	42.89 @	21°24' =	39.95
		P.O.T. # 4	32.12 2+55.99	0.00		35.52 @	24°34' =	32.12
		P-4 A	5.75 2+61.74	250.51	L	5.75 @	LEV=	5.75
		P-4	12.60 2+74.41	0.03	R	22.21 @	33° 58	18.42
		P.O.T.	3+10.58	0.00		36.17 @	LEV =	36.17
		Q-1	3+47.29	0.00		38.29 @	16°32' =	36.71

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Q-LINE DATE 6-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMOUNT	L/R	NOTES	
Q-1	P.O.T.					T=70	
		P.O.T.	0+54.67	0.00		54.68 @ LEV=	54.67
		Q-2	1+54.39	0.14	R	99.73 @ LEV=	99.72
		Q-3	3+25.57	0.00		171.20 @ LEV=	171.18
		Q-4	4+47.78	4.93	R	122.22 @ LEV=	122.21
		Q-5	5+51.67	5.70	R	103.90 @ LEV=	103.89
		Q-6	6+40.97	5.82	R	89.31 @ LEV=	89.30
		Q-7	7+38.56	0.80	R	97.60 @ LEV=	97.59
		Q-8	8+28.05	0.00		89.50 @ LEV=	89.49
		Q-9	9+35.98	0.00		107.94 @ LEV=	107.93

Notes Ck'd by
Map No.
Office Work
Checked
Date

LATIGO SHORES LANDSLIDE
Survey of
JN 0021 82 Tape Std °F
Surveyed by PETERSON
Notes T.C.P. Date 6-69
Indexed G.L. GALLI JUL 9 '69

F.B. 3251 PG. 221

Notes Ck'd by	Survey of Latigo Shore Landslide
Map No.	JN 0021.64 Tape 190 Std 84 °F
Office Work	Surveyed by Lind
Checked	Notes Lind Date 9-15-69
Date	Indexed G. L. GALLI SEP 24 '69

F. B. 3251 PG. 223

U.N. 0021.82

LATIGO SHORE LANDSLIDE

HORIZONTAL MOVEMENT

OBSERVATIONS

9-15-69

LIND

PETERSON

SWANN

BLANCHARD

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3095 CE#310 3-68

F.B. 3251 PG. 224

M- LINE 9-15-69

ON LINE FROM	TO	SIGHT ON STATION	PLUS	OFFSET AMT	L/R	NOTES			
M-1	M-8		0+00.00	0.00				T=70	
		POT	2+71.20	0.00		271.24	@	0° 47' =	271.20
		M-2	3+27.86	0.00		56.67	@	LEV =	56.66
		M-2A	147.11 4+74.97	15.66	R	66.09	@	LEV =	66.08
		M-3	66.08 5+41.05	0.23	R	213.59	@	3° 22' =	213.19
		M-4	6+59.96	0.00		119.20	@	3° 56' =	118.91
		M-5A	9+47.08	0.05	R	287.55	@	3° 03' =	287.12
		POT	10+82.14	0.00		135.44	@	4° 14' =	135.06
		POT	12+76.90	0.00		195.09	@	3° 18' =	194.76
		M-6	15+37.57	0.02	R	261.09	@	3° 11' =	260.67
		POT	18+36.89	0.00		299.71	@	2° 50' =	299.32
		M-7	18+78.86	0.00		41.97	@	LEV =	41.97

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M-2 - LINE ✓ 9-17-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	L./R.		NOTES	
RP 2	RP 4		0+00.00	0.00			T=64	
		M-2 AA	1+10.50	0.00		110.51	@ LEV =	110.50'
		M-2 B	134.19 2+44.69	5.48	R.	52.30	@ LEV =	52.29
		POT	52.29 2+96.98	0.00		188.59	@ 8°32' =	186.48
		POT	4+27.30	0.00		131.69	@ 8°12' =	130.32'
		M-2C	4+27.53	19.91	R.	0.23	@ LEV =	0.23'
		M-2D	139.58 5+67.11	1.62	R.	46.46	@ LEV =	146.45
		POT	46.45' 6+13.56	0.00		186.33	@ 1°18 =	186.26

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Lot 100 Sauce Landing
JN 0021.82 Tape 190 Std 82 °F
Surveyed by Lind
Notes Lind Date 9-17-69
Indexed C. L. GALLI SEP 24 '69

F. B. 3251 PG. 225

F.B. 3251 PG 226

N- LINE ✓ 9-16-69

ON - LINE FROM	ON - LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	OFFSET L/R	NOTES	
N-1	N-2		0+00.00			T=66	
		N-2	0+69.02'	0.37	R	6.89 @ LEV =	6.89 ✓
		POT	0+75.91	0.00		75.92 @ LEV =	75.91
		N-3	1+71.23	0.22	R.	100.57 @ 18°35' =	95.32 ✓
		POT	2+62.21	0.00		92.83 @ 11°25' =	90.98 ✓
		N 4A	2+93.83	1.97	R	31.62 @ LEV =	31.62 ✓
		N-5	4+20.05	4.99	R	126.23 @ LEV =	126.22 ✓
		N-5A	5+25.04	31.00	R.	105.00 @ LEV =	104.99 ✓
		POT	5+42.79	0.00		17.75 @ LEV =	17.75 ✓
		N-6	6+10.24	3.80	R.	67.46 @ LEV =	67.45 ✓

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O - LINE ✓ 9-17-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	L/R	NOTES
O-1	M-8		0+00.00	0.00		T=68
		P.O.T.	0+64.40	0.00		64.41 @ LEV = 64.40'
		O-3	1+73.64	0.81	R	115.41 @ 18°48' = 109.24'
		O-4	81.26 2+54.90	2.94 N.G. LIND	R	190.52 @ LEV. = 190.50

Notes Ck'd by
Map. No.
Office Work
Checked
Date

Survey of Latino Shore Council of F.B. 3251 PG. 227
JN 6021.82 Tape 190 Std 84 °F
Surveyed by Lind
Notes T.C.P. Date 9-17-69
Indexed C.J. GALLI SEP 24 '69

P LINE ✓ 9-17-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	L/R	NOTES			
P-1	P-5								T=76
		P.O.T. #1	0+93.54	0.00		93.98 @	5°34	=	93.54 ✓
		P.O.T. #3	1+23.48	0.00		29.94 @	LEV	=	29.94 ✓
		P-2 A	1+55.41	205.08	L	31.93 @	LEV	=	31.93 ✓
		P-2	1+83.89 28.48	0.01	L	61.19 @	9°11'	=	60.41
		P-3	2+23.84	0.07	L	42.43 @	19°41'	=	39.95 ✓
		P.O.T. #4	2+55.96	0.00		33.89 @	26°29'	=	32.12 ✓
		P-4 A	2+61.72	250.47	L	5.76 @	LEV	=	5.76 ✓
		P-4	2+74.38 12.66	0.03	R	21.38 @	30°30'	=	18.42
		P.O.T.	3+10.55	0.00		36.17 @	LEV	=	36.17 ✓
		Q-1	3+47.27	0.00		38.41 @	17°05'	=	36.72 ✓

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Q - LINE 9-15-69

ON LINE FROM	TO	SIGHT ON STATION	PLUS	AMT.	L/R	NOTES			
Q-1	P.O.T.		0+00.00	0.00					
		P.O.T	0+54.66	0.00		54.67 @	LEV	=	54.66'
		Q-2	1+54.37	0.16	R	99.72 @	LEV	=	99.71'
		Q-3	3+25.56	0.00		171.21 @	LEV	=	171.19'
		Q-4	4+47.80	4.97	R	122.26 @	LEV	=	122.24'
		Q-5	5+51.69	5.76	R	103.90 @	LEV	=	103.89'
		Q-6	6+41.02	5.89	R	89.34 @	LEV	=	89.33'
		Q-7	7+38.58	0.84	R	97.57 @	LEV	=	97.56'
		Q-8	8+28.07	0.00		89.50 @	LEV	=	89.49'
		Q-9	9+36.02	0.00		107.96 @	LEV	=	107.95'

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LATIGO SHORES LANDSLIDE
JN 0021.82 Tape 190 Std 84 °F
Surveyed by LIND
Notes LIND Date 9-15-69
Indexed C. J. GALLI SEP 2 4 '69

F. B. 3251 PG. 229

Notes Ck'd by	Survey of LATIGO SHORE SLIDE
Map No.	JN 002182 Tape #4 Std 84 °F
Office Work	Surveyed by C. K. LIND
Checked	Notes DOVER Date DEC 69
Date	Indexed C. J. GALLI FEB 5 70

F. B. 3251 PG. 231

J.N. 002182

LATIGO SHORE LANDSLIDE

HORIZONTAL MOVEMENT OBSERVATIONS

12-9-1969

C K. LIND
DOVER
DARVIS
LUND

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

761-3095 CL#310 3-68

F.B. 3651 Pg. 232

M-LINE

DATE 12-9-1969

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	OFFSET L/R	NOTES		
M-1	M-8					TEMP = 64°		
						271.28 @	268° 48	= 271.18
						56.68 @	LEVEL	56.67
		M-2	3+27.85	0.00				327.85
		M-2A	4+74.92 (1147.07)	15.66	R	-66.13 @	LEVEL	= -66.12
		M-3	5+41.04 (66.12)	0.23	R	213.48 @	267° 12'	= 213.19
		M-4	6+59.93	0.00		119.14 @	93° 33'	= 118.89
		M-5A	9+47.01	0.05	R	287.52 @	273° 02'	= 287.08
		P.O.T.	10+82.09	0.00		135.50 @	94° 25'	= 135.08
		P.O.T.	12+78.03	0.00		196.27 @	86° 51'	= 195.94
		M-6				NOT RECOVERED		
		P.O.T.	15+41.27	0.00		263.50 @	92° 23	= 263.24
						277.28 @	86° 44'	= 276.79
		M-7	18+78.73	0.00		60.67 @	LEVEL	= 60.66
								337.45

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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M-2 LINE

DATE 12-10-1969

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	OFFSET L/R		NOTES
R.P. Z	R.P. Y		0+00.00	0.00			TEMP = 64°
		M-2AA	1+10.50	0.00		110.51 @	LEVEL = 110.50'
		M-2B	134.19 2+44.69	5.47	R	- 52.35 @	LEVEL = -52.34'
		P.O.T.	52.34 2+97.03	0.00		188.47 @	98°-11' = 186.53
		M-2C	4+27.58	19.94	R	132.65 @	100°10' = 130.55'
		M-2D	139.53 5+67.11	1.62	R	-49.04 @	108°41' = -46.45
		P.O.T.	46.45 6+13.56	0.00		186.34 @	93°33' = 185.98

Notes Ck'd by ____
Map No. ____
Office Work ____
Checked ____
Date ____

Survey of LATIGO SHORES
JN 0021.82 Tape # 4 Std 84 °F
Surveyed by C.E. LIND
Notes DOVER Date DEC 69
Indexed G. J. GALLI

F. B. 3251 PG. 233

N LINE

DATE 12-10-69

F. B. 3251 PG. 234

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	OFFSET L/R		NOTES	
N-1	M-8		0+00	0.00			TEMP = 64°	
		N-2	0+69.92	0.37	R	69.93 @	LEVEL	= 69.92
		P.O.T.	0+75.93	0.00		75.94 @	LEVEL	= 75.93
		N-3	1+71.22	0.22	R	99.61 @	106°-55'	= 95.29
		P.O.T.	2+62.20	0.00		192.55 @	104°-39'	= 186.27
		N-4A	2+93.84	2.03	R	31.64 @	LEVEL	= 31.64
		N-5	4+20.04	4.96	R	-122.64 @	88°-18'	= -122.57
		N-5A	5+25.02	31.02	R	-17.59 @	LEVEL	= -17.59
		P.O.T.	5+41.61	0.00		280.45 @	LEVEL	= 280.41
		N-6	6+10.20	3.83	R	67.60 @	LEVEL	= 67.59

PLEASE RETURN TO
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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76F3098 CE#310 9-67

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O-LINE

DATE 12-11-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	OFFSET L/R		NOTES	
O-1	M-8		0+00.00	0.00			TEMP =	64°
		P.O.T	0+70.00	0.00		70.01 @	LEVEL =	70.00
		O-3	1+73.96	0.83	R	119.94 @	110°25' =	103.96
		O-4	81.29 2+55.25	2.40	R	193.78 @	107°02' =	185.25

O.K.

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LATIGO SHORE SLIDE
JN-002182 Tape #4 Std 84°F
Surveyed by C.K. LIND
Notes DOVER Date DEC 69
Indexed C. J. GALLI

F.B. 3251 PG 235

F.B. 3251 Pg. 23'

P-LINE

DATE 12-11-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	OFFSET L/R		NOTES	
P-1	P-5		0+00.00	0.00			TEMP = 64°	
		P.O.T #1	0+93.54	0.00		93.55 @	LEVEL =	93.54'
		P.O.T #3	1+73.48	0.00		29.94 @	LEVEL =	29.94'
		P-2A	1+56.47 28.39	105.07	L	31.99 @	LEVEL	31.99'
		P-2	1+83.86	0.0	L	61.12 @	261° 14' =	60.38
		P-3	2+73.80	0.08	L	42.74 @	108° 57' =	39.94
		P.O.T. #4	2+55.89	0.00		35.6 @	65° 52' =	32.09'
		P-4A	2-61.69 12.62	250.48	L	5.80 @	LEVEL	5.80'
		P-4	2+74.31 -12.36	0.03	R	20.42 @	115° 35'	18.42
		P-5	3-47.17	0.00		96.51 @	108° 56'	91.28

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Q LINE DATE 12-12-69

ON LINE FROM	TO	SIGHT ON STATION	PLUS	OFFSET AMT	L/R		NOTES	
Q-1	P.O.T.		0+00.00	0.00			TEMP= 64°	
		P.O.T.	0+54.69	0.00		54.70 @	LEVEL =	54.69
		Q-2	1+54.41	0.18	R	99.73 @	LEVEL =	99.72
		Q-3	3+25.61	0.00		171.22 @	LEVEL =	171.20
		Q-4	4+47.87	5.00	R	122.28 @	LEVEL =	122.26
		Q-5	5+51.76	5.78	R	103.90 @	LEVEL =	103.89
		Q-6	6+41.08	5.91	R	89.33 @	LEVEL =	89.32
		Q-7	7+38.64	0.86	R.	97.57 @	LEVEL =	97.56
		Q-8	8+28.12	0.00		89.49 @	LEVEL	89.48
		Q-9	9+36.07	0.00		107.96	LEVEL	107.95

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LATIGO SHORE SLIDE
JN 002182 Tape #4 Std 84°F
Surveyed by C.R. LIND
Notes DOVER Date
Indexed G. J. GALLI

F.B. 3251 Pg. 237

Notes Ck'd by	Survey of Latigo Shore Slide
Map No.	JN 0021.82 Tape 197 Std 84°F
Office Work PAW	Surveyed by C.K. LIND
Checked	Notes R DOVER Date JULY 70
Date	Indexed G.J. GALLI AUG 7 70

F.B. 3251 PG. 239

J.N. 0021.82

LATIGO SHORE LANDSLIDE

HORIZONTAL MOVEMENT OBSERVATIONS

7 JULY 1970

PARTY

C.K. LIND
DOVER
BLANCHARD
DARVIS

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76F3098 CE#310 9-67

"M" LINE

DATE JULY 7, 1970

F.B. 3251 Pg. 240

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES (SEE F.B. 2341 FOR CONTROL)		
M-1	M-8		0+00.00				TEMP = 78°	
						271.26 @	1°24' =	271.17
						56.67 @	LEVEL =	56.67
								327.84
		M-2	3+27.84	0.00				
		M-2A	4+74.94	15.71	R	-66.10 @	LEVEL =	66.10
		M-3	5+41.04	0.25	R	213.59 @	3°-25' =	213.20
		M-4	6+59.94	0.00		119.26 @	4°-27' =	118.90
						191.04 @	3° 30' =	190.67
		M-5A	9+47.03	0.06	R	96.42 @	LEVEL =	96.42
								287.09
		M-6				NOT RECOVERED		
		P.O.T.	10+82.09	0.00		135.40 @	3° 59' =	135.06
		P.O.T.	12+77.56	0.00		195.92 @	3°-50' =	195.47
		P.O.T.	15+41.30	0.00		263.97 @	2-21' =	263.74
		P.O.T.	18+38.80	0.00		297.99 @	3°-15' =	297.50
		M-7	18+78.81	0.00		40.01 @	LEVEL =	40.01

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M-2 LINE

DATE JULY 8, 1970

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET AMT	L/R	NOTES		
R.P. Z	R.P. Y		0+00.00			TEMP=78°		
		M-2AA	1+10.50	0.00		110.50 @	LEVEL =	110.50
		M-2B	2+44.73	5.53	R	-52.42 @	LEVEL =	-52.42
		P.O.T.	2+97.15	0.00		188.93 @	98° 53' =	186.65
		M-2C	4+27.56	20.03	R	132.53 @	100° 14' =	130.41
		M-2D	5+67.07	1.69	R	-48.72 @	107° 36' =	-46.44
		P.O.T	6+13.51	0.00		186.35 @	93° 42' =	185.95

Notes Ck'd by
Map No.
Office Work Pond
Checked
Date

Survey of Latino Shore Slide
JN00 2182 Tape 197 Std 84 °F
Surveyed by C.K. LIND
Notes R. DOVER Date July 50
Indexed C.L. GALLI AG 7-70

F.B. 3251 PG 241

N - LINE

DATE JULY 8, 1970

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES		
N-1	M-8		0+00.00			TEMP = 78°		
		N-2	0+69.03	0.37	R	69.03 @	LEVEL =	69.03
		P.O.T.	0+75.93	0.00		75.93 @	LEVEL =	75.93
		N-3	1+71.26	0.30	R	100.69 @	108° 47 =	95.33
		P.O.T.	2+62.75	0.00		192.34 @	104° 22 =	186.32
		N-4A	2+93.93	2.09	R	31.68 @	LEVEL =	31.68
		N-5	4+20.00	4.99	R	-122.70 @	LEVEL =	-122.70
		N-5A	5+25.10	31.03	R	-17-60 @	LEVEL =	-17.60
		P.O.T.	5+42.70	0.00		280.46 @	LEVEL =	280.45
		N-6	6+10 31	3.83	R	67.61 @	LEVEL =	67.61

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76F309S CE#310 3-68

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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Notes Ck'd by
Map No.
Office Work Paw
Checked
Date

Survey of Latigo Shore Slide
JN 0021.82 Tape 197 Std 84 °F
Surveyed by C.K. LIND
Notes R. DOVER Date JULY 70
Indexed C. J. GAELT AUG 7 70

F.B. 3251 PG. 243

O - LINE

DATE JULY 8, 1970

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES
O-1	M-8		0+00.00			
		P.O.T.	0+70.07	0.00		70.07 @ LEVEL = 70.07
		O-3	1+73.66	0.84	R	111.04 @ 111°06′ = 103.59
		O-4	2+55.07	2.48	R	193.65 @ 107° 11′ = 185.00

F.B. 3251 PG. 244

P-LINE

DATE JULY 9, 1970

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES
P-1	P-5		0+00.00			TEMP=78°
		P.O.T. #1	0+93.53	0.00		93.53 @ LEVEL = 93.53
		P.O.T. #3	1+23.47	0.00		29.94 @ LEVEL = 29.94
		P-2A	1+55.47	205.07	L	32.00 @ LEVEL = 32.00
		P-2	1+83.87	0.01	L	60.76 @ 276°-15' = 60.40
		P-3	2+23.81	0.08	L	42.54 @ 110°-08' = 39.94
		P.O.T. #4	2+55.91	0.00		35.53 @ 295°-22' = 32.10
		P-4A	2+61.67	250.48	L	5.76 @ LEVEL = 5.76
		P-4	2+74.33	0.03	R	21.85 @ 122°-32' = 18.42
		P-5	3+47.18	0.00		96.18 @ 108°-23' 91.27

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Q - LINE

DATE JULY 9, 1970

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES	
Q-1	P.O.T.		0+00.00			TEMP = 78°	
		P.O.T.	0+54.70	0.00		54.70 @ LEVEL =	54.70
		Q-2	1+54.42	0.19	R	99.72 @ LEVEL =	99.72
		Q-3	3+25.62	0.00		171.22 @ LEVEL =	171.21
		Q-4	4+47.88	5.04	R	122.26 @ LEVEL =	122.26
		Q-5	5+51.77	5.83	R	103.89 @ LEVEL =	103.89
		Q-6	6+41.12	5.96	R	89.35 @ LEVEL =	89.35
		Q-7	7+38.67	0.91	R	97.55 @ LEVEL =	97.55
		Q-8	8+28.18	0.00		89.51 @ LEVEL =	89.51
		Q-9	9+36.13	0.00		107.95 @ LEVEL =	107.95

Notes Ck'd by
Map No.
Office Work Paw
Checked
Date

Survey of Latigo Shore Slide
JN 002182 Tape 197 Std 84 °F
Surveyed by C.K. LIND
Notes R. DOVER Date JULY 70
Indexed R.L. GALLI AUG 7 70

F.B. 3251 PG. 245

Notes Ck'd by	Survey of Latigo Shore Slide
Map No.	JN 0021.82 Tape 100 Std 84°F
Office Work Paul	Surveyed by
Checked	Notes R. DOVER Date Dec 70
Date	Indexed [illegible] JAN 12 71

F.B. 3251 PG 247

J.N. 0021.82

LATIGO SHORE LANDSLIDE

HORIZONTAL MOVEMENT OBSERVATIONS

29 - 31 DECEMBER 197

PARTY

DOVER
MANLEY
DARVIS

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3098 CE #310 9-67

M-LINE

29 DECEMBER 1970

F.B. 3251 Pg. 248

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R
M-1	M-8		0+00.00		
		M-2	3+27.84	0.00	
		M-2A	147.13 4+74.97	15.74	R
			64.07		
		M-3	5+41.04	0.26	R
			118.88		
		M-4	6+59.92	0.00	
			140.67		
		P.O.T.	8+50.59	0.00	
			96.43		
		M-5A	DESTROYED		
		M-5AR	(RESET ON LINE) 9+47.02	0.00	
		M-6	194.26		
		P.O.T	11+41.28		
			260.11		
		P.O.T	14+01.39		
			139.86		
		P.O.T.	15+41.25		
			377.52		
		M-7	18+78.77	0.02	L

NOTES

SEE FB 2341 FOR CONTROL

TEMP = 62°

271.78 @	91°-03'	=	271.18
56.67 @	LEVEL	=	56.66
			327.84
-66.08 @	LEV.	=	66.07
213.48 @	92° 46	=	213.20
119.16 @	93° 48	=	118.88
191.07 @	86°-26'	=	190.67
96.96 @	93° 51'	=	96.43 NAIL & TIN

NOT RECOVERED

194.62 @	273°-21'	=	194.26
260.70 @	93° 44'	=	260.11
139.88 @	LEV	=	139.86
295.65 @	93° 17'	=	295.11
42.42 @	LEV.		42.41
			337.52

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M-2 LINE

DATE 30 DECEMBER 1970 ✓

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES
R.P. Z	R.P. Y		0+00.00			TEMP = 58
		M-2AA	1+10.50	0.00		110.52 @ LEV. = 110.50
			134.25			
		M-2B	2+44.75	5.56	R	-52.47 @ LEV = -52.46
			52.47			
		P.O.T.	2+97.22			188.78 @ 98° 25' = 188.72
			130.39			
		M-2C	4+27.61	20.07	R	132.23 @ 99° 31' = 130.39
			139.52			
		M-2D	5+67.13	1.73	R	-49.39 @ 110°-03 = 46.39
			46.40			
		P.O.T.	6+13.53	0.00		186.24 @ 93° 11 = 185.92

Notes Ck'd by
Map No.
Office Work Paul
Checked
Date

Survey of LATIGO SHORE SLIDE
JN 00218 Tape 100 Std 84 °F
Surveyed by
Notes R. DOVER Date DEC 70
Indexed [illegible] JAN 12 '70

F.B. 3251 PG 249

F.B. 3251 Pg. 250

N-LINE

DATE 29 DECEMBER 1970 ✓

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AHT.	OFFSET L/R	NOTES
N-1	M-8		0+00.00			TEMP = 62°
		N-1				DESTROYED
		P.O.T.	0+76.02			76.03 @ LEV = 76.02
		N-3	1+71.27 (95.25 / 0.098)	0.21	R	99.63 @ 107° 02′ = 95.25
		P.O.T.	2+62.25	0.00		192.53 @ 104° 40′ = 186.23
		N-4A	2+93.94	2.13	R	31.69 @ LEV = 31.69
		N-5	4+20.14	4.99	R	-122.63 @ LEV = 122.61
		N-5A	5+25.15	31.03	R	- 17.60 @ LEV = 17.60
		P.O.T	5+42.75	0.00		280.54 @ LEV = 280.50
		N-6	6+10.39	3.83	R	67.65 @ LEV = 67.64

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O-LINE DATE 30 DECEMBER 1970 ✓

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES
0-1	M-8		0 + 00.00			T = 62°
		P.O.T.	0 + 74.45			74.46 @ LEV = 74.45
						105.39 @ 109° 45' = 99.17
		0-3	1 + 73.62	0.83	R	
		0-4	2 + 55.01	2.48	R	188.62 @ 106° 47' = 180.56

Notes Ck'd by
Map No.
Office Work Pond
Checked
Date

Survey of LATIGO SHORE SLIDE
JN Tape Sta °F
Surveyed by
Notes Date
Indexed [illegible]

F.B. 3251 PG. 251

P-LINE

DATE 4 JANUARY 1971

F.B. 3251 PG. 252

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES
						TEMP = 50°
P-1	P-5		0+00.00			
		P.O.T # 1	0+93.53			93.55 @ LEV. = 93.53
		P-2	1+83.87	0.06	L	90.36 @ LEV. = 90.34
		P-3	2+23.83	0.08	L	42.19 @ 108° - 41 = 39.96
		P.O.T #4	2+55.88	0.00		32.06 @ LEV = 32.05
		P-4A	2+61.65	250.49	L	5.77 @ LEV = 5.77
		P-4	2+74.32	0.04	R	18.44 @ LEV = 18.44
		P.O.T #5	3+08.63	0.00		33.72 @ LEV = 33.71
		P-5	3+47.20	0.00		42.37 @ 112° - 23 = 39.17
		P.O.T #3	DESTROYED			
		P-2A	NOT RECOVERED			

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76F3098 CE#310 9-67

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Do not extend this side of this line.

Q LINE DATE 30 DECEMBER 1970 ✓

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES		
Q-1	P.O.T.		0+00.00				TEMP = 62°	
		P.O.T.	0+54.70	0.00		54.71 @	LEV	= 54.70
		Q-2	1+54.42	0.21	R	99.73 @	LEV.	= 99.72
		Q-3	3+25.63	0.00		171.23 @	LEV.	= 171.21
		Q-4	4+47.89	5.04	R	122.28 @	LEV	= 122.26
		Q-5	5+51.78	5.83	R	103.90 @	LEV.	= 103.89
		Q-6	6+41.13	5.96	R	89.36 @	LEV.	= 89.35
		Q-7	7+38.68	0.91	R	97.56 @	LEV.	= 97.55
		Q-8	8+28.15	0.00		89.48 @	LEV	= 89.47
		Q-9	9+36.10	0.00		107.97 @	LEV	= 107.95

CONT. TO F.B. 3415 - 103

Notes Ck'd by
Map No.
Office Work Pow
Checked
Date

Survey of LATIGO SHORE SLIDE F.B. 3251 PG 253
JN 002182 Tape 100 Std 84 °F
Surveyed by
Notes R. DOVER Date DEC 70
Indexed Q. J. GALLI JAN 12 71

F.B. 3251 PG. 254

HORIZONTAL MEASUREMENTS

CONT IN F.B. 3415 105

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