Profile No. | Notes Red | Plotted | Job No. 0021.64 | Division No. 11 | F. B. 2483 PG. 5

X-Sec. No. | Notes Chkd. | Checked | Survey of PORTUGUESE BEND LANDSLIDE

Date | Date | Survey by DREIER Notes Date 1- -70

Date | Date | Map No. | Indexed C. J. GALLI Date FEB 4 70

JOB NO. 0021.64

# PORTUGUESE BEND LANDSLIDE

## LEVEL LINE "A"

DREIER
MALDONADO
SIEMANN
McKNIGHT

INDEX


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STATION | B.S. | H.I. | F.S. | ELEV.

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403 Los Angeles County Engineering Bldg.

Microfilmed July '85

76-L-298 CE 307 5-66

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A |
|---|---|---|---|---|---|
| B.M. 50-7 | 4171 | 1205709 | | 1201.538 | B.M. 50-7 ELEV. 1201.538 (1965) F.B. 2400-13 |
| T.P. | 0198 | 1194486 | 11 421 | 1194288 | |
| T.P. | 0482 | 1182991 | 11 977 | 1182509 | |
| T.P. | 0208 | 1171317 | 11 882 | 1171109 | |
| T.P. | 2395 | 1163610 | 10 102 | 1161215 | |
| T.P. | 6222 | 1166020 | 3 812 | 1159798 | |
| Bm. C-1 | 6160 | 1166923 | 5 257 | 1160763 | B.M. C-1 |
| T.P. | 8227 | 1172231 | 2 919 | 1164004 | CRENSHAW BLVD & WHITLEY COLLINS DR. N.W. COR |
| T.P. | 8308 | 1178988 | 1 551 | 1170680 | B. SPK IN S.E. COR. EDISON CONN., 45.5 FT. W. OF W. END C.R. |
| T.P. | 9281 | 1186562 | 1 707 | 1177281 | |
| T.P. | 4698 | 1187239 | 4 021 | 1182541 | |
| BM. 50-8 | 3710 | 1186017 | 4 932 | 1182307 | B.M. 50-8 |
| T.P. | 0610 | 1178688 | 7 939 | 1178078 | CRENSHAW BLVD. E. OF SEA CREST DR., |
| | 1282 | 1169587 | 10 383 | 1168305 | BUTTON MON. 8" DEEP 6 FT S.ELY P.P.* 1035202 |
| | 0178 | 1159374 | 10 391 | 1159196 | |
| | 0462 | 1147965 | 11 871 | 1147503 | |
| | 0232 | 1136726 | 11 471 | 1136494 | |
| | 0248 | 1126318 | 10 656 | 1126070 | |
| | 0370 | 1116104 | 10 584 | 1115734 | |
| | 0278 | 1105181 | 11 201 | 1104903 | |
| T.P. | 2163 | 1097456 | 9 888 | 1095293 | |

F. B. 2483 PG. 6
Job No. 0021.64 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of PORTUGUESE BEND LANDSLIDE Date ____ Date ____ No. ____
Survey by DREIER Notes DREIER 1-9-70 Notes Chk'd. ____ Checked ____ X-Sec. ____
Indexed G.J. GALLI Date ____ Date ____ No. ____

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Profile No.____ Notes Red____ Plotted____ Job No. 0021.64
X-Sec. No.____ Date____ Date____ Survey of PORTUGUESE BEND LANDSLIDE Division No. 11
Notes Chk'd.____ Checked____ Survey by DREIER Notes DREIER Date 1-9 to 20-70
Date____ Date____ Map No.____ Indexed C.J. GALLI Date FEB 4 '70

F.B. 2483 PG. 7

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A | |
|---|---|---|---|---|---|---|
| | | 1097 456 | | | | |
| B.M. C-2 | | | | | | |
| T.P. | 0741 | 1092 180 | 6017 | 1091 439 | B.M. C-2 | |
| | 1029 | 1083 397 | 10812 | 1081 568 | CRENSHAW BLVD. 0.3 mi. S.E. OF SEACREST DR., | |
| | 0350 | 1073 386 | 936 | 1073 036 | B. SAK. IN LARGE BOULDER | |
| | 0516 | 1063 444 | 10458 | 1062 928 | | |
| | 0251 | 1053 354 | 10341 | 1053 103 | | |
| | 0519 | 1042 251 | 11 522 | 1041 732 | | |
| | 0497 | 1031 378 | 11 370 | 1030 881 | | |
| | 0950 | 1022 738 | 9590 | 1021 788 | | |
| | 2319 | 1016 536 | 8521 | 1014 217 | | |
| | 0497 | 1009 973 | 7060 | 1009 476 | | |
| B.M. 50-9 | 0259 | 1009 878 | 10 354 | 999 619 | B.M. 50-9 | |
| | 0178 | 999 971 | 10 965 | 998 913 | | |
| | 0753 | 989 908 | 9561 | 989 522 | | |
| | 0398 | 978 303 | 12000 | 977 935 | | |
| | 1390 | 967 787 | 11 906 | 966 397 | | |
| | 0182 | 956 380 | 11 589 | 956 198 | | |
| T.B.M. # 11 | 3755 | 951 225 | 8910 | 947 470 | | D.K. SAK IN ROCK |
| | 2493 | 942 518 | 11 200 | 940 025 | | |
| Z-1 | 0299 | 935 697 | 7120 | 935 398 | | MON. |
| | 0950 | 926 049 | 10 598 | 925 099 | | |
| | 0333 | 915 244 | 11 138 | 914 911 | | |

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Indexed C. J. GALLI Date ____ Date ____ No. ____

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A | |
|---|---|---|---|---|---|---|
| | | 915 244 | | | | |
| | 0 497 | 904 772 | 10 969 | 904 275 | | |
| | 0 402 | 894 366 | 10 808 | 893 964 | | |
| | 0 262 | 883 977 | 10 651 | 883 715 | | |
| | 0 264 | 872 352 | 11 889 | 872 088 | | |
| | 5 395 | 866 445 | 11 302 | 861 050 | | |
| B.M. 50-10 | 3 730 | 862 060 | 8 115 | 858 330 | B.M. 50-10 | MON |
| | 0 360 | 851 793 | 10 627 | 851 433 | | |
| | 0 245 | 840 051 | 11 987 | 839 806 | | |
| | 0 388 | 828 971 | 11 468 | 828 583 | | |
| | 0 540 | 819 089 | 10 422 | 818 549 | | |
| | 0 342 | 807 429 | 12 002 | 807 087 | | |
| | 4 752 | 801 371 | 10 810 | 796 619 | | |
| Y-4 | 8 042 | 801 858 | 7 555 | 793 816 | 2" I.P. & NAIL | |
| | 0 462 | 790 682 | 11 638 | 790 220 | | |
| ~~T.B.M. #~~ | 7 785 | 787 435 | 11 032 | 779 650 | | |
| T.B.M. #12 | 8 580 | 785 945 | 10 070 | 777 365 | T.B.M. #12 P.K. SPK IN ROCK MOWL | |
| | 0 350 | 777 493 | 8 802 | 777 143 | | |
| | 0 331 | 765 863 | 11 961 | 765 532 | | |
| | 0 437 | 754 472 | 11 828 | 754 035 | | |
| | 0 788 | 744 350 | 10 910 | 743 562 | | |

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A | |
|---|---|---|---|---|---|---|
| | | 744 350 | | | | |
| | 1 020 | 733 838 | 11 532 | 732 818 | | |
| | 0 333 | 722 221 | 11 950 | 721 888 | | |
| | 0 662 | 711 375 | 11 508 | 710 713 | | |
| | 0 188 | 699 646 | 11 917 | 699 458 | | |
| | 0 868 | 688 982 | 11 532 | 688 114 | | |
| | 3 296 | 681 378 | 10 900 | 678 082 | | |
| T.B.M.# 13 | 0 441 | 676 736 | 5 083 | 676 295 | T.B.M.# 13 | P.K. SPK IN ROCK HDWL. |
| | 0 185 | 665 521 | 11 400 | 665 336 | | |
| | 0 617 | 655 016 | 11 122 | 654 399 | | |
| B.M. 50-11 | 0 241 | 648 077 | 7 180 | 647 836 | B.M. 50-11 | MON. |
| | 0 508 | 637 352 | 11 233 | 636 844 | | |
| | 0 400 | 626 379 | 11 373 | 625 979 | | |
| | 0 228 | 614 759 | 11 848 | 614 531 | | |
| | 0 328 | 603 916 | 11 171 | 603 588 | | |
| | 0 208 | 592 571 | 11 553 | 592 363 | | |
| | 0 513 | 581 724 | 11 360 | 581 211 | | |
| | 0 525 | 570 772 | 11 477 | 570 247 | | |
| | 0 408 | 559 427 | 11 753 | 559 019 | | |
| | 0 462 | 547 956 | 11 933 | 547 494 | | |
| | 0 644 | 536 680 | 11 920 | 536 036 | | |

Profile Notes Red ____ Plotted ____ Job No. 0021.64 Division No. 11 F. B. 2483 Pg. 9
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X-Sec. Notes Chk'd. ____ Checked ____ Survey by DREIER Notes DREIER Date 1-20-70
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76-L-298 CE 307 5-66

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F. B. 2483 Pg. 10 | Job No. 0021.64 | Division No. 11 | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | No. | X-Sec.
Survey by DREIER Notes DREIER 1-20-70 | Notes Chk'd. | Checked
Indexed G.L.GALLI | Date | Date | Date | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A | |
|---|---|---|---|---|---|---|
| | | 536 680 | | | | |
| | 0251 | 524 966 | 11 965 | 524 715 | | |
| | 0573 | 514 242 | 11 297 | 513 669 | | |
| | 0245 | 502 762 | 11 735 | 502 507 | | |
| | 0395 | 491 507 | 11 640 | 491 112 | | |
| | 0 930 | 480 506 | 11 871 | 479 636 | | |
| TANK | 0335 | 475 878 | 5023 | 475 543 | "TANK" | B. SPK. W. & T. 20FT S.E. OF WATER TANK |
| | 0228 | 464 724 | 11 382 | 464 496 | | |
| | 0222 | 453 290 | 11 656 | 453 068 | | |
| | 0854 | 442 793 | 11 371 | 441 929 | | |
| | 4791 | 440 307 | 7 257 | 435 516 | | |
| B-1C | 4835 | 439 442 | 5 700 | 434 607 | B-1C | MON. IS ON AREA THAT IS BREAKING UP AND SLIDING INTO CHASM. MON. IS ABOUT 2 FEET LOWER THAN SURFACE ONE FOOT WEST. |
| | 1030 | 435 347 | 5 125 | 434 317 | | |
| | 1015 | 424 468 | 11 894 | 423 453 | | |
| | 0555 | 413 093 | 11 930 | 412 538 | | |
| | 1018 | 404 483 | 9628 | 403 465 | | |
| | 1109 | 393 712 | 11 880 | 392 603 | | |
| SB 2 | 7539 | 391 068 | 10 183 | 383 529 | SB 2 | B. SPK. W. & T. |
| | 8081 | 398 689 | 0460 | 390 608 | | |
| | 5731 | 402 230 | 2190 | 396 499 | | |
| RT-1 | 1700 | 397 596 | 6334 | 395 896 | P.T-1 | B. SPK W. & T. |

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X-Sec. Notes Chk'd. ____ Checked ____ Survey by DREIER Notes DREIER Date 1-20-70
No. ____ Date ____ Date ____ Map No. ____ Indexed C.H. GALT Date FEB 4 '70

F. B. 2483 Pg. 11

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A | |
|---|---|---|---|---|---|---|
| | | 397 596 | | | | |
| B-1B | 7 215 | 396056 | 8755 | 388 841 | B-1B | 2" I.P. |
| | 2330 | 396176 | 2210 | 393 846 | | |
| | 1288 | 385646 | 11 818 | 384358 | | |
| | 0552 | 374550 | 11 648 | 373 998 | | |
| | 0302 | 363475 | 11 377 | 363 173 | | |
| | 0695 | 352765 | 11 405 | 352 070 | | |
| | 4394 | 345498 | 11 661 | 341 104 | | |
| | 8732 | 353919 | 0311 | 345 187 | | |
| D2 | 9460 | 359586 | 3793 | 350126 | D2 | CO. ENGR. MON. |
| | 11 708 | 369872 | 1422 | 358164 | | |
| | 7435 | 376 872 | 0435 | 369 437 | | |
| DAVIS | 3830 | 377812 | 2890 | 373 982 | DAVIS | CO. ENGR. MON. |
| | 0784 | 368 906 | 9690 | 368 122 | | |
| | 0643 | 359400 | 10 149 | 358 757 | | |
| | 0784 | 349944 | 10 240 | 349 160 | | |
| | 6149 | 353922 | 2171 | 347 773 | | |
| | 8599 | 357 984 | 8537 | 345 385 | | |
| | 4812 | 358 865 | 0931 | 354 053 | | |
| | 4283 | 360 107 | 3041 | 355 824 | | |
| RADIAL 1 | 9491 | 359 388 | 9210 | 350 897 | RADIAL 1 | CO. ENGR. MON |

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A |
|---|---|---|---|---|---|
| | | 359 388 | | | |
| | 2 002 | 353 517 | 7 873 | 351 515 | |
| | 0 576 | 344 365 | 9 728 | 343 789 | |
| | 1 172 | 334 175 | 11 362 | 333 003 | |
| | 0 589 | 327 095 | 7 669 | 326 506 | |
| | 2 658 | 317 991 | 11 762 | 315 333 | |
| A-3A | 11 898 | 323 608 | 6 281 | 311 710 | A-3A |
| A-4 | 1 011 | 323 518 | 1 101 | 322 507 | |
| | 11 191 | 322 901 | 11 808 | 311 710 | |
| | 10 651 | 332 910 | 0 642 | 322 259 | |
| | 11 487 | 344 045 | 0 352 | 332 558 | |
| | 10 072 | 351 394 | 2 723 | 341 322 | |
| | 4 450 | 350 435 | 5 409 | 345 985 | |
| | 8 718 | 354 438 | 4 715 | 345 720 | |
| | 0 300 | 346 151 | 8 587 | 345 851 | |
| | 0 191 | 334 419 | 11 923 | 334 228 | |
| | 5 388 | 333 067 | 6 740 | 327 679 | |
| B.M. 50-12 | 9 003 | 339 940 | 2 130 | 330 937 | B.M. 50-12 |
| | 0 482 | 331 877 | 8 545 | 331 395 | |
| | 0 288 | 320 267 | 11 898 | 319 979 | |
| | 0 736 | 309 490 | 11 513 | 308 754 | |

UNABLE TO FIND A-3, AREA DISKED AND PLANTED. NO EVIDENCE OF MARKER PIPE SET 2" I.P. WITH BRASS CAP STAMED "A 3A 1970 RE 5869" IN GENEAL AREA WITH MARKER PIPE 0.5 FT. S'LY CAP HAS B.M. BUTTON AND ESTIMATE TO BE APPROX. 1 FT. LOWER THAN PREVIOUS STA. A-3

F. B. 2483 PG. 12

Job No. 002164 Division No. 11 Notes Red. Plotted Profile

Survey of PORTUGUESE BEND LANDSLIDE Date Date No.

Survey by DREIER Notes DREIER 1-21-70 Notes Chk'd. Checked X-Sec.

Indexed C. J. GALLI Date Date No.

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208.12

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A | |
|---|---|---|---|---|---|---|
| | | 309 490 | | | | |
| | 0957 | 300 215 | 10 232 | 299258 | | |
| | 1098 | 289 885 | 11 428 | 288787 | | |
| | 0359 | 279094 | 11 150 | 278735 | | |
| | 0811 | 268926 | 10 979 | 268115 | | |
| | 1131 | 258 639 | 11 418 | 257508 | | |
| | 0555 | 247434 | 11 760 | 246879 | | |
| | 0808 | 236291 | 11 951 | 235483 | | |
| | 0949 | 225504 | 11 736 | 224555 | | |
| | 0775 | 214691 | 11 588 | 213916 | | |
| | 0664 | 204086 | 11 269 | 203422 | | |
| | 0481 | 193497 | 11 070 | 193016 | | |
| | 8491 | 190357 | 11 631 | 181866 | | |
| | 11 634 | 192 333 | 9658 | 180699 | | |
| | 11 289 | 202 011 | 0611 | 191722 | | |
| | 6733 | 205361 | 4383 | 198628 | | |
| | 8229 | 212 050 | 1540 | 203821 | | |
| B.M. 50-13 | 5251 | 213 682 | 3619 | 208 431 | B.M. 50-13 1965 ADJ. ELEV. = 208.086 REF: F.B. 2400 22 | |
| 50-13A | 11074 | 221677 | 3079 | 210603 | B.M. 50-13A SPK. & T. IN ASPHALT CURB | |
| | 11 493 | 232620 | 0550 | 221127 | | |
| | 8296 | 240 718 | 0198 | 232422 | | |

Profile Notes Red ____ Plotted ____ Job No. 0021.64 Division No. 11 F. B. 2483 Pg. 13
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F. B. 2483 PG. 14 | Job No. 0021.64 | Division No. 71 | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | No. | X-Sec.
Survey by DREIER Notes DREIER 1-22-70 | Notes Ch'd. | Checked
Indexed D. D. GALLI | Date | Date | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A | |
|---|---|---|---|---|---|---|
| | | 240 718 | | | | |
| K-6 | 3 909 | 240 613 | 4 014 | 236 704 | K-6 MON. | |
| | 0 538 | 232 964 | 8 187 | 232 426 | | |
| | 0 929 | 222 059 | 11 834 | 221 130 | | |
| | 8 343 | 218 951 | 11 451 | 210 608 | | |
| | 8 750 | 226 831 | 0 870 | 218 081 | | |
| | 7 210 | 231 916 | 2 125 | 224 706 | | |
| | 6 023 | 234 484 | 3 455 | 228 461 | | 1965 ADJ. ELEV. = 231.027 ✓ P.U.DR.S. & YATCH HARBOR DR. S.E. COR 8 SPK IN CURB |
| B.M. 34-15A | ~~4 431~~ 4 258 | ~~235 736~~ 235 563 | 3 179 | 231 305 | B.M. 34-15A | |
| B.M. 34-14A | | | ~~4 428~~ 4 664 | ~~231 135~~ 231 070 | B.M. 34-14A (U.S.C.&G.S T 1053 1960) | 1965 ADJ. ELEV. = 231.208 ✓ |
| | 4 258 | 235 563 | | | P.U.DR.S. & SCHOONER DR. N.W. COR. DISC IN SLY COR S.D. CATCH BASIN | |
| | | | 4 028 | 231 535 | REFERENCE — F.B. 1355-45 | |

34-15A TO 34-14A
+ 4.579
− 4.349
.230

+ 4.431
− 4.198
.233

Profile No. | Notes Red | Plotted | Job No. 0021.64 | Division No. 11 | F. B. 2483 | PG. 15
Date | Date | Survey of PORTUGUESE BEND LANDSLIDE
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Date | Date | Map No. | Indexed C.J. GALLI Date FEB 4 '70

JOB NO. 0021.64

PORTUGUESE BEND LANDSLIDE

LEVEL LINE "B"

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| | | | | |

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F. B. 2483 Pg. 16 | Job No. 0021.64 | Division No. 11 | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | Date | No.
Survey by DREIER | Notes DREIER 1-19-70 | Notes Chk'd. | Checked | X-Sec.
Indexed C.J. GALLI | Date | Date | Date | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE B | |
|---|---|---|---|---|---|---|
| S.B. 2 | 8 542 | 392 071 | | 383 529 | S.B.-2 | B. SPK W. & T. ELEV. 383.529 PER PAGE 10 |
| SB 1 | 2 730 | 390 096 | 4 705 | 387366 | S.B.1 | B. SPK W. & T |
| T. P. | 0 445 | 379 990 | 10 551 | 379545 | | L & T. IN DRWY TO 6 SWEETBAY |
| | 0 918 | 369 017 | 11 891 | 368099 | | |
| | 3 730 | 360 957 | 11 790 | 357 227 | | |
| SB3 | 11 767 | 364 945 | 7 779 | 353178 | SB. 3 | B. SPK W. & T. |
| | 11 990 | 376 450 | 0 485 | 364 460 | | |
| | 5011 | 381 170 | 0 291 | 376159 | | |
| | 8 495 | 389 157 | 0 508 | 380662 | | |
| | 8 284 | 390 761 | 6 680 | 382 477 | | |
| | 9 927 | 399 855 | 0 833 | 389928 | | |
| WEST FIX | 4 983 | 399 086 | 5 752 | 394103 | WEST FIX | CO. ENGR MON. |
| | 0 234 | 390 331 | 8 989 | 390 097 | | |
| | 0 633 | 379 459 | 11 505 | 378 826 | | |
| | 0 219 | 368 397 | 11 281 | 368 178 | | |
| | 7341 | 367 361 | 8 377 | 360020 | | |
| | 0 215 | 361 108 | 6 468 | 360893 | | |
| | 0 260 | 350 184 | 11 184 | 349924 | | |
| | 0 377 | 338 701 | 11 860 | 338 324 | | |
| | 1 042 | 327 783 | 11 960 | 326 741 | | |
| H-2 | 0 854 | 319 345 | 9 292 | 318 491 | H-2 | CO. ENGR. MON. |

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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**Do not extend notes this side of this line.**

LINE B

| STATION | B. S. | H. I. | F. S. | ELEV. | | |
|---|---|---|---|---|---|---|
| | | 319 345 | | | | |
| | 1559 | 312303 | 8601 | 310744 | | |
| H-2 | 3476 | 307004 | 8775 | 303528 | H-4 | 2" I.P. CONC PLUG, N.& TAG |
| | 0242 | 296327 | 10919 | 296085 | | |
| | 11620 | 302329 | 5618 | 290709 | | |
| | 11270 | 313407 | 0192 | 302137 | | |
| | 11140 | 323445 | 1102 | 312305 | | |
| | 11298 | 333095 | 1648 | 321797 | | |
| P.T.5 | 0660 | 331307 | 2448 | 330647 | P.T.5 | B.SPK.W.&T. 22 FT.S.W. OF P.POLE N.E.PART INTER. PEPPERTREE & LIMETREE |
| | 0218 | 319594 | 11931 | 319376 | | |
| | 1640 | 309366 | 11868 | 307726 | | |
| PT.6B | 0630 | 303661 | 6335 | 303031 | PT 6B | PEPPERTREE & KUMQUAT B.SPK.W.&T. 47± ELY & INT. |
| | 0403 | 292192 | 11872 | 291789 | | |
| | 0372 | 280973 | 11591 | 280601 | | |
| | 0822 | 271552 | 10243 | 270730 | | |
| | 0215 | 260616 | 11151 | 260401 | | |
| | 0568 | 249206 | 11978 | 248638 | | |
| | 1525 | 239071 | 11660 | 237546 | | |
| | 0781 | 228750 | 11102 | 227969 | | |
| | 1885 | 219373 | 11262 | 217488 | | |
| | 1831 | 209311 | 11893 | 207480 | | |

Profile Notes Red ____ Plotted ____ Job No. 002164 Division No. 11
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chk'd. ____ Checked ____ Survey by DREIER Notes DREIER Date 1-19-70
No. ____ Date ____ Date ____ Map No. ____ Indexed C.J. GALLI Date FEB 4 70

F. B. 2483 PG. 17

76-L-298 CE 307 5-66

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F. B. 2483 Pg. 18 | Job No. 0021.64 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of PORTUGUESE BEND LANDSLIDE Date ____ No. ____ X-Sec. ____
Survey by DREIER Notes DREIER 1-19-70 Notes Chk'd. ____ Checked ____ No. ____
Indexed C.T. GALLI Date ____ Date ____ Date ____

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE B | |
|---|---|---|---|---|---|---|
| | | 209 311 | | | | |
| B.M. "C" | 0227 | 201 350 | 8188 | 201123 | B.M. C | PEPPERTREE N. OF P.V. DR. S. AT VILLA FRANCESCA GATE. RD. |
| | 6708 | 196 149 | 11 909 | 189441 | | |
| U.S.C.&G.S X 977 | 4840 | 194 282 | 6707 | 189442 | U.S.C.&G.S X 977 1964 RESET 1966 | P.V. DR. S. & PEPPERTREE N.W. COR. |
| | 11654 | 205 102 | 0834 | 193448 | | |
| | 11059 | 215 968 | 0193 | 204909 | | |
| K-1 | 5387 | 215893 | 5462 | 210506 | K-1 CO. ENGR. MON. | |
| | 0437 | 205350 | 10 980 | 204913 | | |
| | 0849 | 194322 | 11 877 | 193473 | | |
| | 4115 | 192102 | 6335 | 187987 | | |
| | 7490 | 194602 | 4990 | 187112 | | |
| | 1608 | 188 085 | 8125 | 186477 | | |
| | 0948 | 178923 | 10110 | 177975 | | |
| | 6721 | 173762 | 11 882 | 167041 | | |
| B.M. 34-18 | | | 4902 | 168860 | B.M 34-18 1965 ADJ. ELEV. = 168.614, REF. F.B. 1355-22 | |

Profile No. | Notes Red | Plotted | Job No. 0021.64 | Division No. 11 | F. B. 2483 PG. 19

X-Sec. No. | Notes Chk'd. | Checked | Survey of PORTUGUESE BEND LANDSLIDE

Date | Date | Survey by DREIER Notes | Date 1-12-70

Date | Date | Map No. | Indexed G. J. GALLI Date FEB 4 70

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| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| | | | | |

JOB NO. 0021.64

PORTUGUESE BEND LANDSLIDE

LEVEL LINE "C"

DREIER
MALDONADO
SIEMANN
MCKNIGHT

76-L-298 CE 307 5-66

76-L-298 CE 307 5-66 2468

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F. B. 2483 Pg. 20 | Job No. 002.164 Division No. 11 Notes Red Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date No. X-Sec.
Survey by DREIER Notes DREIER 1-12-70 Notes Chk'd. Checked No.
Indexed C.J. GALLI Date Date Date

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "C" |
|---|---|---|---|---|---|
| TANK | 0.275 | 475818 | | 475543 | "TANK" ELEV. 475.543 PER PAGE 10 |
| T.P. | 0.218 | 464713 | 11323 | 464495 | |
| | 0.367 | 456186 | 8894 | 455819 | |
| | 0.265 | 444536 | 11895 | 444291 | |
| | 0.180 | 434498 | 10238 | 434318 | |
| | 0.220 | 422957 | 11761 | 422737 | |
| T.P. | 4.670 | 420753 | 6.874 | 416083 | |
| | | | ~~6.924~~ | | |
| PB-9A | 2.468 | 416897 | 6324 | 414429 | B. SPK & WASHER |
| P.B.-9B | 2.678 | 412727 | 6848 | 410049 | B. SPK. & WASHER |
| T.P. | 3.972 | 409840 | 6859 | 405868 | |
| T.P. | 7.729 | 416124 | 1445 | 408395 | |
| AC-3 | 6.771 | 418549 | 4346 | 411778 | CO. ENGR. MON |
| T.P. | 2.595 | 409317 | 11827 | 406722 | |
| P.B.9 | 5.450 | 409807 | 4.960 | 404357 | CO. ENGR MON 1957 ENT. TO VANDERLIP ESTATE |
| T.P. | 6.470 | 413315 | 2.962 | 406845 | |
| P.I. 5B | 5.038 | 415423 | 2.930 | 410385 | NARCISSA DR. & SWEETBAY, CO. ENGR. MON 7' N.F. PAV. |
| T.P. | 0.509 | 410693 | 5.239 | 410184 | |
| T.B.M. 30 | 0.732 | 406314 | 5.111 | 405582 | NARCISSA DR. & CINNAMON LANE N.E. COR B.SPK. IN ROCK HDWL. |
| T.P. | 6.527 | 406633 | 6.208 | 400106 | |
| T.P. | 5.650 | 409207 | 3.076 | 403557 | |

76-L-298 CE 307 5-66

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Profile Notes Red____ Plotted____ Job No. 0021.64 Division No. 11 F. B. 2483 PG. 21
No.____ Date____ Date____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chk'd.____ Checked____ Survey by DREIER Noted DREIER Date 1-12-70
No.____ Date____ Date____ Map No.____ Indexed C.L.GALLI Date FEB 4 '70

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "C" |
|---|---|---|---|---|---|
| | | 409 207 | | | CONT |
| P.I. 4C | 5263 | 411 346 | 3124 | 406 083 | NARCISSA DR & PLUM TREE RD. N.W. COR. CO. ENGR. MON |
| T.P. | 8832 | 419 700 | 0478 | 410 868 | |
| T.P | 11 951 | 429 414 | 2237 | 417 463 | |
| T.P. | 8058 | 436 660 | 0812 | 428 602 | |
| FRUIT TREE | 11 460 | 436 181 | 11 939 | 424 721 | FRUIT TREE N. OF NARCISSA, CO ENGR. MON. |
| T.P. | 0181 | 428783 | 7579 | 428 602 | |
| T.P. | 6239 | 423 704 | 11 318 | 417 465 | |
| T.P. | 6751 | 425 168 | 5 287 | 418 417 | |
| T.P. | 5092 | 425 008 | 5 252 | 419 916 | |
| T.P. | 56709 | 426 549 | 4 168 | 420 840 | |
| T.P. | 4426 | 427 144 | 4 293 | 422 259 | |
| S.P.H. G-7 RM.1 | 4908 | 426 794 | [illegible] | 421 886 | REF. MON. 70' ± TO STA. ~~UNABLE TO FIND, LARGE PILE OF WOOD~~ |
| SP.H G-7 | 5521 | 426 260 | 5 943 | 420 739 | Δ MON. |
| S.P.H G-7, RM.2 | 0 826 | 422 885 | 4 201 | 422 059 | REF. MON. |
| T.P. | 1 423 | 416 920 | 7 435 | 415 447 | |
| T.P. | 2879 | 410 081 | 9 718 | 407 202 | |
| T.P. | 0 952 | 405 050 | 5 983 | 404 098 | |
| T.P | 0 582 | 395 385 | 10 247 | 394 803 | |
| T.P. | 0485 | 385587 | 10 283 | 385 102 | |
| T.P. | 3368 | 381 846 | 7 109 | 378 478 | |

76-L-298 CE 307 5-66

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F. B. 2483 Pg. 22 | Job No. 002164 | Division No. 11 | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND | Date | No.
Survey by DREIER | Notes DREIER 1-12-70 | Notes Chk'd. | Checked | X-Sec.
Indexed G. GALLI | Date | Date | Date | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE C | |
|---|---|---|---|---|---|---|
| | | 381 846 | | | 10 FT E & PRLL. | |
| P.I. 3A | 0 761 | 373 915 | 8 [illegible] | 373 214 | NARCISSA DR. & SINGLETREE LANE, SLY SIDE CO. ENGR. MON 4 FT S. OF EDGE OF PAV. | |
| T.P. | 1 212 | 365 878 | 9 [illegible] | 364 666 | | |
| T.P. | 0 268 | 357 576 | 8 [illegible] | 357 308 | FOR S.P. HILLS H-7A AND ECC'S SEE PAGE 25 | |
| T.P. | 3 578 | 348 806 | 9 [illegible] | 348 228 | | |
| T.P. | 2 482 | 341 362 | 9 926 | 338 880 | | |
| P.I. 1A | 0 571 | 334 273 | 7 460 | 333 902 | NARCISSA DR. & SINGLETREE RD. W. SIDE B.S. PK, W-ET, AT N. EDGE DRWY NO. 31 | |
| | 0 539 | 324 699 | 10 113 | 324 160 | | |
| | 0 674 | 315 675 | 9 [illegible] | 315 001 | | |
| | 3 147 | 308 659 | 12 [illegible] | 305 512 | | |
| * T.P. | 0 585 | 302 740 | 63 [illegible] | 302 357 | | |
| | 0 396 | 293 007 | 10 [illegible] | 292 611 | | |
| | 2 291 | 284 151 | 11 147 | 281 860 | | |
| P.B. 10 | 0 395 | 280 219 | 4 327 | 279 824 | | |
| | 0 959 | 272 308 | 8 870 | 271 349 | | |
| | 0 528 | 262 082 | 10 748 | 261 560 | | |
| | 0 392 | 251 477 | 10 997 | 251 085 | | |
| | 0 852 | 243 224 | 9 105 | 242 372 | | |
| | 0 865 | 232 541 | 11 548 | 231 676 | | |
| | 0 280 | 221 591 | 11 230 | 221 311 | | |
| | 5 345 | 216 522 | 10 417 | 211 174 | | |

76-L-298 CE 307 5-66

8375 5623 1750

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE C |
|---|---|---|---|---|---|
| | | 216 522 | | | |
| T.P | 4543 | 216 616 | 4.449 | 212 073 | |
| W.F 1 | 7 895 | 218 613 | 5898 | 210 718 | AT WAFARER CHAPEL, SQ SPK IN BOTTOM STEP N.W. COR OF WALK BY PARKING AREA |
| | 5163 | 217 630 | 6 146 | 212 467 | |
| WAYFARER | 0 517 | 214 113 | 4 034 | 213 596 | L.&T. AT CHAPEL ENTRANCE |
| | 0 316 | 206047 | 8 382 | 205 731 | |
| | 0 366 | 194 477 | 11 936 | 194 111 | |
| | 0 509 | 183 119 | [illegible] | 182 612 | |
| | 0 [illegible] | 173046 | 10 [illegible] | 172 729 | |
| T.B.M. 31 | 3 54[illegible] | 170906 | 5 684 | 167 362 | P.V. DR.S. AT ENTRANCE TO WAYFARER L&T IN CTR DIVIDER |
| P-2 | 3 592 | 167 509 | 7 289 | 163 617 | P.V. DR.S. E. OF ENTRANCE TO WAYFARER L.& CO. ENGR TAG IN N. CURB OF CTR DIVIDER |
| | 3791 | 165 139 | 6 161 | 161 348 | |
| P-3 | 3 931 | 162229 | 6 841 | 158 298 | P.V. DR.S.W. OF NARISSA L.& CO. ENGR TAG IN N. CURB OF CTR. DIVIDER |
| T.P. | 10 034 | 171 095 | 1 168 | 161 061 | |
| B.M. 34-18 | | | 2 288 | 168 807 | B.M. 34-18 ELEV 1965 ADJ. 168.614 P.V. DR.S. & NARCISSA DR., N.E. COR REF. = F.B. 1355-22 |

Profile Notes Red ____ Plotted ____ Job No. 002164 Division No. 11 F.B. 2483 PG. 23
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chk'd. ____ Checked ____ Survey by DREIER Notes DREIER Date 1-13-70
No. ____ Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date FEB 4 '70

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No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chk'd. ____ Checked ____ Survey by DREIER Notes DREIER Date 1-15-70
No. ____ Date ____ Date ____ Map No. ____ Indexed D.L. GALL Date FEB 4 '70

F. B. 2483 PG. 25

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "C" |
|---|---|---|---|---|---|
| P.I. 3A | 0 527 | 373 741 | | 373 214 | {NARCISSA & GINGERROOT LANE SLY SIDE |
| | 0 348 | 362 667 | 11 422 | 362 319 | { ELEV. 373.214 PER PAGE 22 |
| | 0 205 | 351 153 | 11 719 | 350 948 | |
| | 1 230 | 340 451 | 11 932 | 339 221 | |
| | 0 740 | 329 292 | 11 899 | 328 552 | |
| | 0 272 | 317 811 | 11 753 | 317 539 | |
| | 0 330 | 306 258 | 11 883 | 305 928 | |
| | 0 488 | 294 831 | 11 915 | 294 343 | |
| | 3 448 | 287 398 | 10 881 | 283 950 | |
| | 8 140 | 291 948 | 3 590 | 283 808 | |
| S.P.H. H-7A ECC 2 | 4 652 | 293 100 | 3 500 | 288 448 | S.P.H. H-7A ECC 2 MON |
| 4 | 4 640 | 293 057 | 4 683 | 288 417 | " " " 4 MON. |
| 1 | 4 630 | 292 987 | 4 700 | 288 357 | " " " 1 MON. |
| H-7A | 0 982 | 289 488 | 4 481 | 288 506 | S.P.H H-7A (CTR) CONC. BROKEN, LEANS N'LY |
| | 8 330 | 289 318 | 8 500 | 280 988 | |
| | 11 582 | 300 720 | 0180 | 289 138 | |
| | 11 070 | 311 542 | 0248 | 300 472 | |
| | 11 120 | 321 953 | 0 709 | 310 833 | |
| | 11 941 | 333 603 | 0 291 | 321 662 | |
| | 7 598 | 340 411 | 0 790 | 332 813 | |
| P.I. 1A | | | 6 502 | 333 909 | P.I. 1A. 333.902<br>NARCISSA & FIGTREE ELEV. PER PG. 22 = |

Profile No. | Notes Red | Plotted | Job No. 0021.64 | Division No. 11 | F. B. 2483 PG. 27
X-Sec. No. | Notes Chk'd. | Checked | Survey of PORTUGUESE BEND LANDSLIDE
Date | Date | Survey by DREIER Notes | Date 1-15-70
Date | Date | Map No. | Indexed D. L. GALLI | Date FEB 4 '70

JOB NO. 0021.64

PORTUGUESE BEND LANDSLIDE

LEVEL LINE "D"

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| | | | | |

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE D |
|---|---|---|---|---|---|
| B.M. 50-13 | 3 288 | 211 374 | * | 208 086 | B.M. 50-13 1965 ADJ. ELEV. 208.086 |
| T.P. | 2 165 | 205 987 | 7 552 | 203 822 | REF. F.B. 2400-22 |
| | 10 722 | 214 838 | 1 872 | 204 115 | |
| | 10 583 | 223 582 | 1 839 | 212 999 | * BM 50-13 IS NOT |
| | 11 655 | 234 755 | 0 482 | 223 100 | HELD FIXED [illegible] |
| | 11 302 | 245 259 | 0 788 | 233 967 | |
| | 11 780 | 256 238 | 0 811 | 244 458 | |
| | 11 067 | 266 649 | 0 656 | 255 582 | |
| | 11 908 | 277 577 | 0 980 | 265 669 | |
| | 10 880 | 288 193 | 0 264 | 277 313 | |
| | 10 769 | 296 812 | 2 150 | 286 [illegible] | |
| | 11 583 | 307 267 | 1 128 | 295 684 | |
| | 11 922 | 318 070 | 1 119 | 306 148 | |
| | 4 488 | 313 [illegible] | 8 589 | 30[illegible] | |
| SHIELDS | 4 602 | 314 876 | 7 [illegible] | 310 [illegible] | SHIELDS, [illegible] ENGR [illegible] |
| | 0 249 | 304 186 | 10 939 | 303 937 | |
| | 0 991 | 293 572 | 7 605 | 292 581 | [illegible] |
| | 0 912 | 286 562 | 7 922 | 285 650 | |
| | 0 492 | 275 146 | 11 908 | 274 654 | |
| | 0 170 | 264 966 | 10 350 | 264 796 | |
| | 0 558 | 253 687 | 11 837 | 253 129 | |

F. B. 2483 Pg. 28 Job No. 0021.64 Division No. 11 Notes Red Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date No.
Survey by DREIER Notes DREIER 1-14-70 Notes Chk'd. Checked X-Sec.
Indexed C. J. GALLI Date Date No.

CE 307 5-66

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No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chk'd. ____ Checked ____ Survey by DREIER Notes DREIER Date 1-15-70
No. ____ Date ____ Date ____ Map No. ____ Indexed [illegible] Date [illegible]

F. B. 2483 PG. 29

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "D" | |
|---|---|---|---|---|---|---|
| | | 253 687 | | | CONT. | |
| | 0 491 | 242 188 | 11 990 | 241 697 | | |
| | 0 988 | 231 649 | 11 527 | 230 661 | | |
| | 0 327 | 220 156 | 11 820 | 219 829 | | |
| | 0 685 | 209 612 | 11 229 | 208 927 | | |
| | 3 821 | 203 214 | 10 219 | 199 393 | | |
| J-5 | 6 928 | 202 142 | 8 000 | 195 214 | J-5 MON. | |
| | 8 827 | 210 319 | 0 650 | 201 492 | | |
| RAD ECC 2 2 | 5 345 | 212 682 | 2 982 | 207 337 | | |
| J-4 | 1 779 | 208 998 | 5 463 | 207 219 | J-4 MON. | |
| | 3 100 | 200 379 | 11 719 | 197 279 | | |
| J-3 | 6 069 | 202 879 | 3 569 | 196 810 | J-3 MON. | |
| | 0 449 | 197 006 | 6 322 | 196 557 | | |
| J-1 | 7 139 | 192 957 | 11 188 | 185 818 | J-1 3/4" I.P. | |
| | 7 755 | 195 764 | 4 948 | 188 009 | | |
| | 9 684 | 204 882 | 0 566 | 195 198 | | |
| | 9 937 | 214 214 | 0 605 | 204 277 | | |
| | 11 758 | 225 420 | 0 552 | 213 662 | | |
| J-1A | 11 578 | 230 983 | 6 015 | 219 405 | J-1A CO. ENGR MON | |
| | 11 582 | 242 370 | 0 195 | 230 788 | | |
| | 11 782 | 253 502 | 0 650 | 241 720 | | |

76-L-298 CE 307 5-66

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Survey of PORTUGUESE BEND LANDSLIDE | Date ____ Date ____ No. ____
Survey by DREIER Notes DREIER 1-15-70 | Notes Chk'd. ____ Checked ____ X-Sec. ____
Indexed C.J. GALLI | Date ____ Date ____ No. ____

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "D" | |
|---|---|---|---|---|---|---|
| | | 253 502 | | | | |
| | 9 530 | 262 466 | 0 566 | 252 936 | | |
| | 10 811 | 272 968 | 0 309 | 262 157 | | |
| | 10 533 | 282 682 | 0 819 | 272 149 | | |
| | 10 643 | 292 139 | 1 186 | 281 496 | | |
| BLAKESLEY | 10 955 | 302 695 | 0 399 | 291 740 | BLAKESLEY CO. ENGR. MON. | |
| | 0 710 | 299 940 | 3 465 | 299 230 | | |
| | 8 42 | 290 783 | 9 999 | 289 941 | | |
| | 0 639 | 280 011 | 11 411 | 279 372 | | |
| | 5 420 | 273 421 | 12 010 | 268 001 | | |
| | 5 839 | 273 452 | 5 808 | 267 613 | | |
| | 7 782 | 279 957 | 1 277 | 272 675 | | |
| | 11 730 | 288 985 | 2 702 | 277 255 | | |
| | 11 052 | 298 834 | 1 203 | 287 782 | | |
| | 11 535 | 310 168 | 0 201 | 298 633 | | |
| P-4 | 0 197 | 302 045 | 8 320 | 301 848 | | |
| | 0 398 | 290 823 | 11 620 | 290 425 | | |
| | 0 614 | 279 750 | 11 687 | 279 136 | | |
| | 0 189 | 268 440 | 11 499 | 268 251 | | |
| | 0 505 | 257 198 | 11 747 | 256 693 | | |
| | 0 414 | 245 962 | 11 650 | 245 548 | | |

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**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "D" |
|---|---|---|---|---|---|
| | | 245 962 | | | |
| | 0 849 | 235 103 | 11 708 | 234 254 | |
| | 0650 | 2 24 299 | 11 454 | 223 649 | |
| | 0265 | 212 707 | 11 857 | 212 442 | |
| | 0 639 | 202 097 | 11 249 | 201 458 | |
| | 0 640 | 191 016 | 11 721 | 190 376 | |
| | 0 624 | 179 666 | 11 974 | 179 042 | |
| B. | 5 232 | 173 434 | 11 464 | 168 202 | |
| B.M. 34-18 | | | 4 934 | 168 500 | B.M. 34-18 1965 ADJ. ELEV. = 168.614 REF F.B. 1355-22 |
| | | | | | P.V. DR. S. & NARCISSA DR. N.E. COR., MON. |

Profile Notes Red ____ Plotted ____ Job No. 0021.64 Division No. 11 F.B. 2483 PG. 31
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. ____ Notes Chk'd. ____ Checked ____ Survey by DREIER Notes DREIER Date 1-15-70
No. ____ Date ____ Date ____ Map No. ____ Indexed C.J. GALLI Date FEB 4 70

Profile No. ____ X-Sec. No. ____

Notes Red ____ Plotted ____ Job No. 0021.64 Division No. 11
Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
Notes Chk'd. ____ Checked ____ Survey by DREIER Notes ____ Date 1-13-70
Date ____ Date ____ Map No. ____ Indexed C. L. GALLI Date FEB 4 70

F. B. 2483 PG. 33

# JOB NO. 0021.64
# PORTUGUESE BEND LANDSLIDE
# LEVEL LINE "E"

| STATION | B. S. | H. I. | F. S. | ELEV. | |
|---|---|---|---|---|---|
| | | | | | |

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76-L-298 CE 307 5-66

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F. B. 2483 PG. 34 | Job No. 002.164 | Division No. 11 | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | Date | No.
Survey by DREIER | Notes DREIER 1-13-70 | Notes Chk'd. | Checked | X-Sec.
Indexed C.L. GALLI | Date | Date | Date | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "E" |
|---|---|---|---|---|---|
| B.M. 34-14A | 4 610 | 235 815 | | 231 208 | B.M. 34-14, 1964 ELEV. 231.208, REF. F.B. 3555-45 |
| B.M. 34-15A | 0 668 | 231 636 | 4 850 | 230 965 | +.059 34-15A 1964 ELEV. 231.024, REF F.B. 3218-171 |
| T.P. | 1 803 | 221 592 | 11 846 | 219 790 | ADD 0.059 TO ELEVATIONS. |
| | 1 968 | 214 571 | 8 989 | 212 603 | |
| | 3907 | 211 205 | 7273 | 207 298 | |
| | 2 418 | 205 082 | 8 541 | 202 664 | |
| | 1 080 | 196 981 | 9 181 | 195 901 | |
| | 0 181 | 186 187 | 10 925 | 186 006 | |
| | 4 254 | 178 446 | 11 995 | 174 192 | |
| K-10A | 5 407 | 178 139 | 5714 | 172 732 | K-10A B.SPK.W.$T. |
| K-10B | 6 068 | 175 646 | 8561 | 169 578 | K-10B 2" I.P. WITH B. SPK |
| K-10C | 4 868 | 173 026 | 7 488 | 168 158 | K-10C L & T. |
| K-10 B.SPK | 3732 | 171 855 | 4 903 | 168 123 | B.SPK ABOVE K-10 |
| | | | | 0930 | (DEEP) |
| K-10 | | | | 167 193 | K-10 |
| T.P. | 2 418 | 167 164 | 7 109 | 164 746 | |
| K-9B | 5360 | 167 144 | 5380 | 161 784 | K-9B 2" I.P. & B. SPK |
| T.P. | 4573 | 169 318 | 2399 | 164 745 | |
| K-9A | 4829 | 168 327 | 5 820 | 163 498 | K-9A B.SPK W.$T. |
| K-9 | 4 783 | 164 172 | 8 938 | 159 389 | K-9 3½ I.P. & CO. ENGR TAG |
| K-8A | 4 965 | 162 888 | 6 249 | 157 923 | K-8A B.SPK.W.$T. |

76-L-298 CE 307 5-66

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Profile Notes Red ____ Plotted ____ Job No. 0021.64 Division No. 11
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chk'd ____ Checked ____ Survey by DREIER Notes DREIER Date 1-13-70
No. ____ Date ____ Date ____ Map No. ____ Indexed C.H. GALL Date FEB 4 70

F. B. 2483 PG. 35

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE E | |
|---|---|---|---|---|---|---|
| | | 162 888 | | | | |
| K-3.5 | 1 121 | 156 658 | 7351 | 155 537 | K-3.5 | |
| T.P. | 0 384 | 146 857 | 10 185 | 146 473 | | |
| | 0 771 | 135 706 | 11 922 | 134 935 | | |
| | 0 370 | 124 991 | 11 355 | 124 621 | | |
| T.P | 2 096 | 115 487 | 11 600 | 113 391 | | |
| W 3 | 4 348 | 115 632 | 6 203 | 109 284 | W-3 | CO. ENGR. DIV. |
| | 11 138 | 124 370 | 0 400 | 113 232 | | |
| | 10 639 | 134 801 | 0208 | 124 162 | | |
| | 5043 | 139 392 | 0 752 | 134 649 | | |
| K-5 | 1 362 | 137 369 | 3 095 | 135 997 | K-5 | CO. ENGR. DIV. |
| | 0 248 | 126 390 | 11 209 | 126 150 | | |
| | 0507 | 115 321 | 11 576 | 114 814 | | |
| | 4 131 | 107 995 | 11 457 | 103 864 | | |
| K-5 AUX | 0 415 | 52 133 | 6277 | 101 718 | K-5 AUX | CO. ENGR. DIV. |
| | 0674 | 91 092 | 11 715 | 90 418 | | |
| | 0517 | 80 127 | 11 782 | 79 310 | | |
| | 0344 | 69 169 | 11 302 | 68 825 | | |
| | 0460 | 58 173 | 11 456 | 57 713 | | |
| | 7299 | 55 334 | 10 138 | 48 035 | | |
| | 5 506 | 52 531 | 8 309 | 47 025 | | |

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE E. |
|---|---|---|---|---|---|
| | | 52 531 | | | |
| T.B.M. 2S | 6320 | 54 310 | 4 541 | 47 [illegible] | B. SPK IN ROCK BY 2" I.P. MARKER |
| K-3A | 3417 | 51 638 | [illegible] | 48 221 | CO. ENGR MON |
| T. P. | 1106 | 40 814 | [illegible] | 39 [illegible] | |
| T. P. | 4638 | 34 454 | 11 048 | 29 [illegible] | |
| T. P. | 10 962 | 44 [illegible] | 0 500 | 33 [illegible] | |
| T. P. | 9 410 | 50 136 | 4 140 | 40 [illegible] | |
| K-2A | 1495 | 47 277 | 2 354 | 45 [illegible] | 2" I.P. WITH 3. SPK IN CONC STR. |
| T. P. | 0 552 | 36 [illegible] | 11 355 | 35 922 | |
| | 7934 | 32 757 | 11 621 | 24 853 | |
| | 11 881 | 41 646 | 3 022 | 29 [illegible] | |
| | 11 [illegible] | 50 934 | [illegible] | 34 705 | |
| | 7530 | 53 844 | 4 620 | 46 314 | |
| | 4972 | 53 815 | 5 001 | 48 843 | |
| | 0763 | 44 376 | 10 202 | 43 [illegible] | |
| | 0990 | 34 111 | 11 255 | 33 121 | |
| | 0209 | 25 428 | 8 892 | 25 [illegible] | |
| | 4 253 | 18 931 | 10 750 | 14 678 | |
| | 5 951 | 18 432 | 6 430 | [illegible] | SPK. |
| | 6 270 | 17 988 | 6 714 | 11 718 | |
| | 0 232 | 15 250 | 2 970 | 15 018 | |
| P.B. 8 | | | 7 218 | 8 032 | 2-19-69 El = 8.04 SPK IN ROCK GRAIN |

F. B. 2483 Pg. 36 Job No. 0021.64 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of PORTUGUESE BEND LANDSLIDE Date ____ Date ____ No. ____
Survey by DREIER Notes DREIER 1-13-70 Notes Chk'd. ____ Checked ____ X-Sec. ____
Indexed C. J. GALLI Date ____ Date ____ Date ____ No. ____

| | |
|---|---|
| Notes Ck'd by | Survey of PORTUGUESE BEND |
| Map No. | JN 0021.64 Tape Std °F |
| Office Work | Surveyed by DREIER |
| Checked | Notes DREIER Date JAN, 1970 |
| Date | Indexed C.J. GALLI |

F. B. 2483 PG. 37

# JOB NO 0021.64

# PORTUGUESE BEND LANDSLIDE

# ANGULAR POSITION CHECK OF WAYFARER

DREIER
MALDONADO
SIEMANN
MCKNIGHT

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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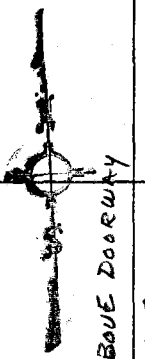
309S CE#310 3-68

F. B. 2483 PG 38

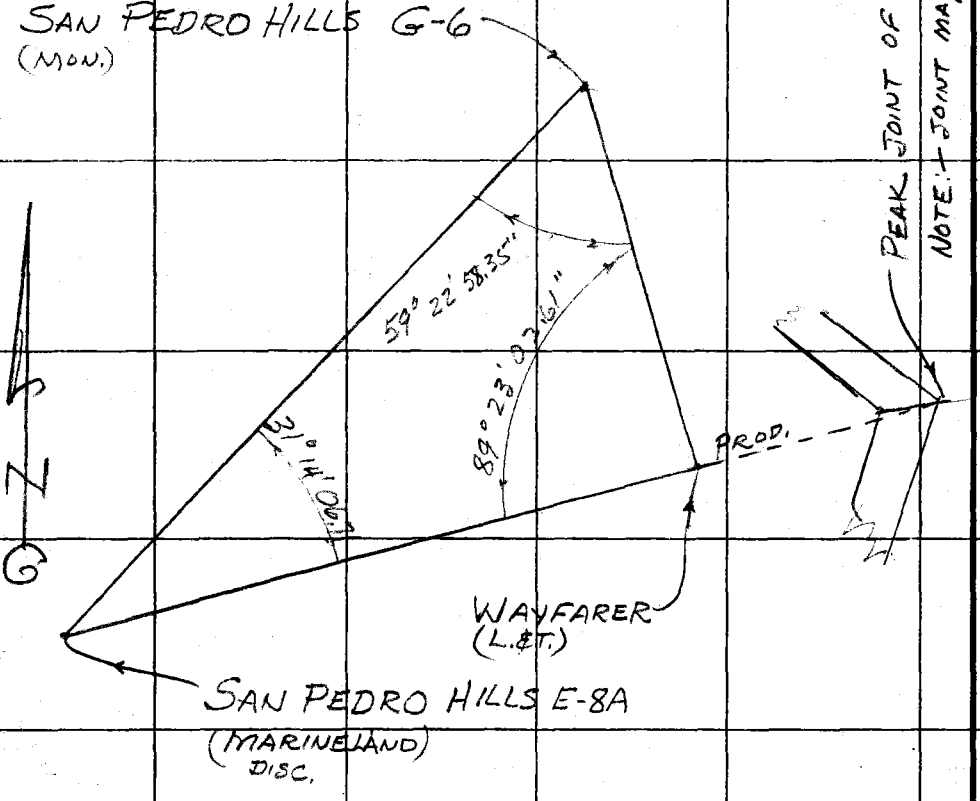
| | | | |
|---|---|---|---|
| G-6 | 59 | 22 | 58.35 |
| WAYFARER | 89 | 23 | 02.61 |
| E-8A | 31 | 14 | 06.71 |
| | 180 | 00 | 07.67 |

ANGLES PER F.B. 6 1133



PEAK JOINT OF WOOD BEAMS ABOVE DOORWAY

NOTE: JOINT MAY BE APPROX. .01 SLY.

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| | |
|---|---|
| Notes Ck'd by | Survey of PORTUGUESE BEND |
| Map No. | JN 002164 Tape Std °F |
| Office Work | Surveyed by DREIER |
| Checked | Notes Date 7-10-70 |
| Date | Indexed G.J. GALLI JL 3070 |

F. B. 2483 PG. 39

JOB NO. 002164

# PORTUGUESE BEND LANDSLIDE

## ANGULAR POSITION CHECK OF "WAYFARER"

JULY 1970

MALDONADO
SIEMANN
MCKNIGHT
PRIEBE

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

16F309S CE#310 3-68

F. B. 2483 PG 40

ANGLES PER F.B.G. 1284-14 & 19

| | | | |
|---|---|---|---|
| WAYFARER | 89 | 22 | 57.81 |
| S.P. HILLS G-6 | 59 | 22 | 55.79 |
| S.P. HILLS E-8A | 31 | 14 | 05.50 |
| | 179° | 59' | 59.10 |

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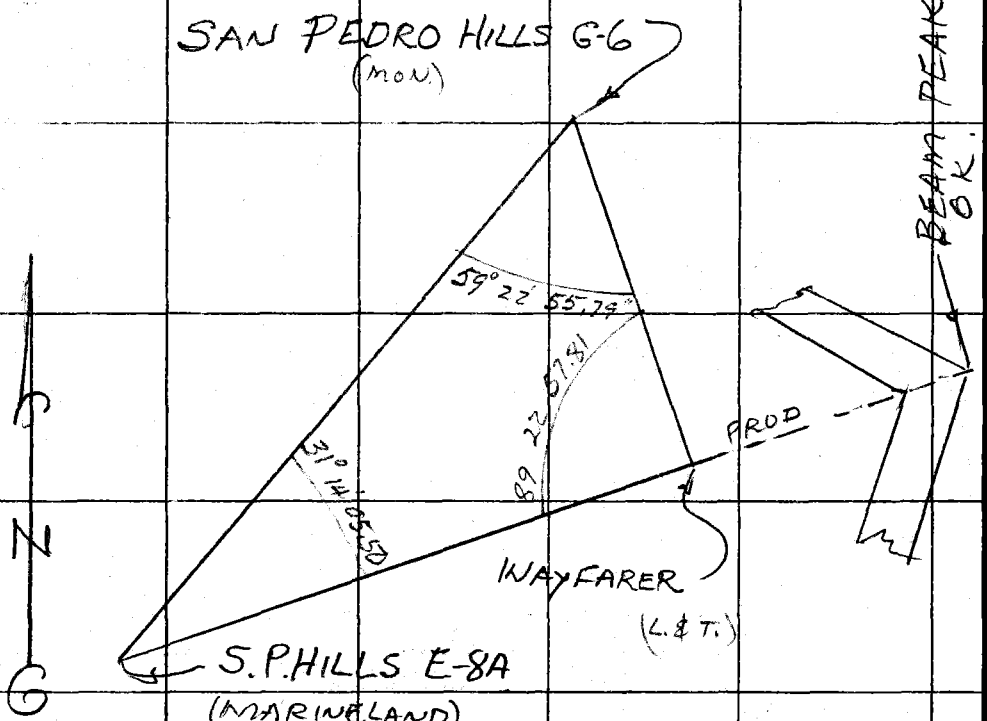
BEAR PEAK JOINT ABOVE ENTRY BK.



F. B. 2483 PG. 41

Profile No. ____ Notes Red ____ Plotted ____ Job No. 002164 Division No. 11
Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey by DREIER Notes DREIER Date 7-13-70
Date ____ Date ____ Map No. ____ Indexed R. A. GALLI Date JL 30 70

JOB NO. 002164

PORTUGUESE BEND LANDSLIDE

LEVEL LINE "A", JULY 1970

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A |
|---|---|---|---|---|---|
| | | | | | |

DREIER
MALDONA
SIEMANN
PREBE

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76-L-298 CE 307 5-66

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**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A |
|---|---|---|---|---|---|
| B.M. 50-7 | 4 989 | 1206527 | | 1201 538 | B.M. 50-7 ELEV. 1201.538 (1965) |
| T.P. | 0 359 | 1198545 | 8341 ~~4 989~~ | 1198 186 | (N.E. COR. CRENSHAW BLVD. & CREST RD. F.B. 2400-13) |
| " | 0346 | 1186 812 | 12079 | 1186466 | |
| " | 0442 | 1177366 | 9888 | 1176924 | |
| " | 0361 | 1168 503 | 9224 | 1168142 | |
| " | 3 308 | 1163 528 | 8283 | 1160220 | |
| B.M. C-1 | 7 249 | 1168026 | 2751 | 1160 777 | B.M. C-1 |
| T.P. | 8 615 | 1175630 | 1011 | 1167 015 | CRENSHAW BLVD. & WHITLEY COLLINS DR. N.W. COR. |
| " | 10 248 | 1184411 | 1 467 | 1174163 | B. SPK. IN S.E. COR. OF EDISON CO. M.H., 45.5 FT. W. OF W. END C.R. |
| " | 8 279 | 1190 157 | 2 533 | 1181 878 | |
| B.M. 50-8 | 2 790 | 1185080 | 7 867 | 1182290 | B.M. 50-8 |
| T.P. | 1 888 | 1177 949 | 9019 | 1176961 | CRENSHAW BLVD. E. OF SEA CREST DR |
| " | 3168 | 1171974 | 9143 | 1168806 | |
| " | 0908 | 1161344 | 11538 | 1160436 | |
| " | 0330 | 1152766 | 8908 | 1152436 | |
| " | 0013 | 1142140 | 10639 | 1142127 | |
| " | 0462 | 1130257 | 12345 | 1129795 | |
| " | 0998 | 1119912 | 11343 | 1118914 | |
| " | 0 013 | 1108 797 | 11 128 | 1108784 | |
| " | 1052 | 1097 816 | 12033 | 1096764 | |
| B.M. C-2 | | | 6374 | 1091442 | BM |

Survey of PORTUGUESE BEND LANDSLIDE Job No. 0021.64 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey by DREIER Notes DREIER Date ____ Date ____ No. ____
Indexed C.J. GALLI Date ____ Notes Chk'd. ____ Checked ____ X-Sec. ____
Date ____ Date ____ No. ____

Pg. 2483 Pg. 42

76-L-298 CE 307 5-66

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Profile No. ____ Notes Red ____ Plotted ____ Job No. 0021.64 Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND
Notes Chk'd. ____ Checked ____ Survey by PREIER Notes PREIER Date 7-15-70
Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date JL 30 70

F. B. 2483 PG 43

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A | |
|---|---|---|---|---|---|---|
| B.M. C-2 | 0319 | 1091 761 | | 1091 442 | B.M. C-2 CONT | |
| T.P. | 0 517 | 1081 729 | 10 549 | 1081 212 | | |
| " | 0 462 | 1072541 | 9650 | 1072 678 | | |
| " | 0 048 | 1062727 | 9 862 | 1062679 | | |
| " | 0 807 | 1051 615 | 11 919 | 1050808 | | |
| " | 0 558 | 1041 633 | 10 540 | 1041 075 | | |
| " | 0 632 | 1031 579 | 10 686 | 1030947 | | |
| " | 0 882 | 1022 094 | 10 367 | 1021 212 | | |
| " | 0 999 | 1013 068 | 10 025 | 1012 069 | | |
| " | 4 771 | 1009 121 | 8 718 | 1004 350 | | |
| B.M. 50-9 | 11 022 | 1010 641 | 9 502 | 999 619 | B.M. 50-9 | |
| T.P. | 0 549 | 1009 857 | 1 333 | 1009 308 | | |
| " | 0 173 | 998 653 | 11 377 | 998 480 | | |
| " | 0 109 | 986 959 | 11 803 | 986 850 | | |
| " | 0 801 | 975 728 | 12032 | 974 927 | | |
| " | 0 549 | 964 560 | 11 717 | 964 011 | | |
| " | 0 492 | 953 459 | 11 593 | 952 967 | | |
| T.B.M. # 11 | 2 798 | 950 280 | 5977 | 947 482 | T.B.M. # 11 P.K. SPK IN | ROCK HDWALL |
| " | 2 567 | 942 784 | 10 063 | 940 217 | | |
| Z-1 | 0 272 | 935 677 | 7 379 | 935 405 | | |
| T.P. | | | ~~10 758~~ | ~~924 919~~ | | |

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F. B. 2483 Pg. 44 | Job No. 002164 Division No. 11 | Notes Red ____ Plotted ____ | Profile ____
Survey of PORTUGUESE BEND LANDSLIDE | Date ____ Date ____ | No. ____
Survey by DREIER Notes DREIER | Notes Chk'd. ____ Checked ____ | X-Sec. ____
Indexed C.L. GALLI | Date ____ Date ____ | No. ____

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "A" | |
|---|---|---|---|---|---|---|
| T.P. | 0756 | 925675 | | 924 919 | CONT. | |
| " | 0 210 | 914 439 | 11 446 | 914229 | | |
| " | 0 401 | 903 761 | 11079 | 903 360 | | |
| " | 0 132 | 891 988 | 11 905 | 891856 | | |
| " | 0 212 | 880 877 | 11323 | 880665 | | |
| " | 0 088 | 869 107 | 11858 | 869 019 | | |
| B.M. 50-10 | 4 822 | | 10 890 | 858 217 | B.M. 50-10 | |
| | | | 10 600 | | | |
| | | | | | | |
| | | | | | | |
| Z-1 | 0 253 | 935 658 | | 935405 | Z-1 FROM PREVIOUS PAGE | |
| T. P. | 1 088 | 924 999 | 11 747 | 923 911 | | |
| " | 0 301 | 913 062 | 12 238 | 912761 | | |
| " | 0187 | 902041 | 11 208 | 901854 | | |
| " | 0 362 | 890 663 | 11 740 | 890 301 | | |
| " | 0 210 | 880 165 | 10708 | 879 955 | | |
| " | 0 867 | 869 731 | 11 301 | 868 864 | | |
| B.M. 50-10 | 4770 | 863 122 | 11 379 | 858 352 | B.M. 50 -10 | (MON.) |
| T.P. | 0722 | 853 373 | 10 471 | 852 651 | | |
| " | 0 320 | 841 838 | 11 855 | 841 518 | | |
| " | | | 11 729 | 830 109 | | |

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A CONT. | | |
|---|---|---|---|---|---|---|---|
| T.P. | 0 059 | 830 168 | | 830 109 | | | |
| " | 0 287 | 818 187 | 12 268 | 817 900 | | | |
| " | 0 388 | 806625 | 11 950 | 806 237 | | | |
| " | 5703 | 801 888 | 10 440 | 796 185 | | | |
| Y-4 | 1 202 | 795 029 | 8 061 | 793 827 | Y-4 | | |
| T.P. | 0 434 | 788 368 | 7095 | 787 934 | | | |
| T.B.M. #12 | 8 272 | 785 670 | 10 970 | 777 398 | T.B.M. #12 | P.K. IN | ROCK HEADWALL |
| T.P. | 0 232 | 774 533 | 11 369 | 774 301 | | | |
| " | 0 046 | 762 918 | 11 661 | 762 872 | | | |
| " | 0 180 | 751 318 | 11 780 | 751 138 | | | |
| " | 0126 | 739 454 | 11 990 | 739 328 | | | |
| " | 0 215 | 727 474 | 12 195 | 727 259 | | | |
| " | 0 143 | 715 544 | 12073 | 715 401 | | | |
| " | 0 060 | 704 202 | 11 402 | 704 142 | | | |
| " | 0 068 | 692 110 | 12160 | 692 042 | | | |
| " | 1592 | 681 532 | 12170 | 679 940 | | | |
| T.B.M. #13 | 0 030 | 676 333 | 5229 | 676 303 | T.B.M. #13 | P.K. SPK | |
| | 0 397 | 664 920 | 11 810 | 664 523 | | | |
| | 1 530 | 654 524 | 11 926 | 652 994 | | | |
| B.M. 50-11 | 0 882 | 648 726 | 6 680 | 641 844 | B.M. 50-11 | | |
| | | | 11 340 | 637 386 | | | |

Profile Notes Red ____ Plotted ____ Job No. 0021.64 Division No. 11
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chk'd ____ Checked ____ Survey by DREIER Notes DREIER Date 7-13-70
No. ____ Date ____ Date ____ Map No. ____ Indexed C.J. GALLI Date JUL 30 '70

F. B. 2483 PG. 45

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F. B. 2483 Pg. 46 | Job No. 0021.64 Division No. 11 Notes Red Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date No. X-Sec.
Survey by DREIER Notes 7-14-70 Notes Chk'd. Checked
Indexed C.J. GALLI Date Date Date No.

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A |
|---|---|---|---|---|---|
| T.P | 0 311 | 637 697 | | 637 386 | CONT, |
| " | 0 632 | 626 249 | 12 080 | 625 617 | |
| " | 0 426 | 614 865 | 11 810 | 614 439 | |
| " | 0 325 | 603 470 | 11 720 | 603 145 | |
| " | 1 215 | 592 555 | 12 130 | 591 340 | |
| " | 0 355 | 581 314 | 11 596 | 580 959 | |
| " | 0 532 | 570 695 | 11 151 | 570 163 | |
| " | 0 155 | 559 480 | 11 370 | 559 325 | |
| " | 0 004 | 547 956 | 11 528 | 547 952 | |
| " | 0 575 | 537 553 | 10 978 | 536 978 | |
| " | 0 452 | 525 693 | 12 212 | 525 341 | |
| " | 0 082 | 514 730 | 11 045 | 514 748 | |
| " | 0 274 | 503 692 | 11 412 | 503 318 | |
| " | 0 860 | 492 627 | 11 925 | 491 767 | |
| " | 0 500 | 481 807 | 12 120 | 480 507 | |
| TANK | 0231 | 475 753 | 5 485 | 475 322 | TANK |
| T.P. | 0 982 | 465 333 | 11 402 | 464 351 | |
| " | 0 159 | 454 620 | 10 872 | 454 461 | |
| " | 0 045 | 443 624 | 11 641 | 442 979 | |
| " | 4144 | 438 749 | 8 419 | 434 605 | |
| B-1C | | | 5 927 | 432 822 | CONT. |

76-L-298 CE 307 5-66

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Profile Notes Red ____ Plotted ____ Job No. 002164 Division No. 11
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chk'd ____ Checked ____ Survey by DREIER Notes DREIER Date 7-14-70
No. ____ Date ____ Date ____ Map No. ____ Indexed C.J. GALLI Date JL 30 70

F. B. 2483 PG. 47

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A | | |
|---|---|---|---|---|---|---|---|
| B-1 C | 4899 | 437 721 | | 432 822 | B1C | CONT | |
| " | 0808 | 426 348 | 12187 | 425 540 | | | |
| | 0991 | 415 608 | 11 731 | 414 617 | | | |
| | 0368 | 404 894 | 11 082 | 404 526 | | | |
| | 0252 | 393 265 | 11 881 | 393 013 | | | |
| SB. 2 | 9392 | 392 928 | 9729 | 383 536 | S.B. 2 | | |
| T.P | 6143 | 396 404 | 2 667 | 390 261 | | | |
| " | 6237 | 400 284 | 2 357 | 394 047 | | | |
| PT 1 | 2214 | 397 240 | 5 258 | 395 026 | PT. 1 | B. SPK W. & T. | |
| T.P | 2848 | 392937 | 7 151 | 390 089 | | | |
| B 1 B | 7241 | 394 835 | 5 343 | 387 594 | B-1B | 2" I.P. | |
| T.P. | 1051 | 390 907 | 4 979 | 389 856 | | | |
| " | 0587 | 379 490 | 12 004 | 378 903 | | | |
| " | 0452 | 369 012 | 10 930 | 368 560 | | | |
| " | 0430 | 359 277 | 10 165 | 358 847 | | | |
| " | 0112 | 348 233 | 11 156 | 348 121 | | | |
| " | 5600 | 343 082 | 10 751 | 337 482 | | | |
| " | 9591 | 350 856 | 1 817 | 341 265 | | | |
| D 2 | 6700 | 355 448 | 2108 | 348 748 | D-2 | MON. | |
| T.P. | 10 690 | 362 957 | 3181 | 352 267 | | | |
| T.P. | | | 0965 | 361 992 | | | |

76-L-298 CE 307 5-66

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F. B. 2483 Pg. 48
Survey of PORTUGUESE BEND LANDSLIDE Job No. 00121.64 11 Division No. Notes Red Plotted Profile
Survey by DREIER Notes DREIER 7-14-70 Notes Chk'd. Date Checked Date No. X-Sec.
Indexed C.J. GALLI Date Date No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A |
|---|---|---|---|---|---|
| | 11032 | 373024 | | 361992 | CONT |
| | 5540 | 377271 | 1293 | 371731 | |
| DAVIS | 3270 | 376049 | 4492 | 372779 | DAVIS (MON.) |
| T.P | 0491 | 365091 | 11449 | 364600 | |
| | 3672 | 357724 | 11039 | 354052 | |
| RADIAL 1 | 8682 | 357776 | 8630 | 349094 | RADIAL 1 |
| T.P. | 0449 | 346392 | 11833 | 345943 | |
| " | 0230 | 335192 | 11430 | 333962 | |
| " | 0443 | 325264 | 11371 | 323821 | |
| " | 4425 | 316779 | 10910 | 313354 | |
| " A3A | 9560 | 320446 | 6893 | 307886 | A3A |
| " | 11608 | 328963 | 7091 | 313355 | |
| A-4 | 1571 | 326912 | 2528 | 325835 | A-4 MON |
| T.P | 11045 | 324411 | 10646 | 313766 | |
| " | 12300 | 336123 | 0588 | 323823 | |
| " | 10770 | 346604 | 0289 | 335834 | |
| " | 10623 | 356938 | 0289 | 346315 | |
| | 0877 | 354901 | 2914 | 354024 | |
| | 0351 | 343151 | 12101 | 342800 | |
| | 0162 | 332165 | 11148 | 332003 | |
| | | | 5995 | 326170 | |

76-L-298 CE 307 5-66

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A |
|---|---|---|---|---|---|
| T.P. | 5858 | 332 028 | | 326 170 | CONT |
| B.M. 50-12 | 9867 | 340 175 | 1720 | 330 308 | B.M. 50-12 mon. |
| T.P. | 0595 | 333 428 | 7342 | 332 833 | |
| " | 0591 | 322307 | 11 712 | 321 716 | |
| " | 0349 | 310856 | 11806 | 310 507 | |
| " | 0688 | 300865 | 10679 | 300 177 | |
| " | 0544 | 289359 | 12050 | 288 815 | |
| " | 0124 | 277 819 | 11 664 | 277 695 | |
| " | 0300 | 266 261 | 11 858 | 265 961 | |
| " | 0382 | 255 493 | 11 150 | 255 111 | |
| " | 0391 | 244 131 | 11 753 | 243 740 | |
| " | 0320 | 232588 | 11 863 | 232268 | |
| " | 0215 | 220683 | 12120 | 220 468 | |
| " | 0272 | 209 296 | 11 659 | 209 024 | |
| " | 0360 | 197 616 | 12040 | 197 256 | |
| " | 0205 | 185 639 | 12182 | 185 434 | |
| " | 11207 | 196241 | 0605 | 185 034 | |
| " | 5965 | 201 416 | 0790 | 195 451 | |
| | 10925 | 207032 | 5309 | 196107 | |
| | 6979 | 211 293 | 2718 | 204314 | |
| B0-13 | | | 2939 | 208 354 | B.M. 50-13 |

Profile Notes Red ____ Plotted ____ Job No. 0021.64 Division No. ____ F. B. 2483 PG. 49
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chk'd ____ Checked ____ Survey by DREIER Notes DREIER Date 7-15-70
No. ____ Date ____ Date ____ Map No. ____ Indexed C.H. GALLI Date JL 30 70

76-L-298 CE 307 5-66

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F. B. 2483 Pg. 50
Job No. 002164 Division No. Notes Red Plotted Profile
Survey of PETTIGREW BENDLANDSLIDE Date No. X-Sec.
Survey by DREIER Notes DREIER 7-15-70 Notes Chk'd. Checked
Indexed C.J. GALLI Date Date No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "A" | |
|---|---|---|---|---|---|---|
| B.M. 50-13 | 4 727 | 213 081 | | 208 354 | B.M. 50-13 CONT. | MON |
| T.P | 5592 | 215 243 | 3 430 | 209 651 | | |
| " | 11 887 | 222402 | 4 728 | 210515 | 50-13A | SPK IN ASPHALT CURB |
| " | 11 931 | 234 256 | 0 077 | 222325 | | |
| " | 7541 | 241 201 | 0596 | 233 660 | | |
| K-6 | 4 528 | 241 131 | 4 590 | 236611 | K-6 | |
| T.P | 0348 | 230 479 | 11 000 | 230131 | | |
| " | 2 050 | 221 010 | 11 519 | 218960 | | |
| " | 10 510 | 224 292 | 7228 | 213 782 | | |
| " | 7562 | 229 584 | 2 270 | 222 022 | | |
| " | 6 440 | 231 522 | 4 502 | 225 082 | | |
| | 7 073 | 234507 | 4 088 | 227434 | | |
| B.M. 34-15A | 4 860 | 236052 | 3 315 | 231 192 | B.M. 34-15A | |
| B.M. 34-14A | | | 4 630 | 231422 | B.M. 34-14A | |

F. B. 2483 PG. 51

Profile No. | Notes Red | Plotted | Job No. | Division No.
Date | Date | Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. No. | Notes Chk'd. | Checked | Survey by DREIER Notes DREIER Date 7-16-70
Date | Date | Map No. | Indexed C. J. GALLI Date JUL 30 '70

JOB NO. 0021.64

PORTUGUESE BEND LANDSLIDE

LELEL CIRCUIT "B" JULY 1970

DREIER
SIEMANN
PRIEBE

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| | | | | |

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F. B. 2483 Pg. 52 | Job No. 0021.64 | Division No. 11 | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | Date | No.
Survey by DREIER | Notes | Notes Chk'd. | Checked | X-Sec.
Indexed C. J. GALLI | Date | Date | Date | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "B" | |
|---|---|---|---|---|---|---|
| S.B. 2 | 8 380 | 391 916 | | 383 536 | S.B. 2 ELEV. 383.536 | PER PAGE 47 |
| S.B. 1 | 3 452 | 390 718 | 4650 | 387 266 | S.B. 1 B.SPK. W.&T. | |
| T.P | 1 493 | 381 042 | 11 169 | 379 549 | L&T. IN DRWY #6 SWEETBAY | |
| " | 0 566 | 370 640 | 10 968 | 370 074 | | |
| " | 2 203 | 360 974 | 11 869 | 358 771 | | |
| S.B. 3 | 10 482 | 363 644 | 7 812 | 353 162 | S.B. 3 B.SPK W.&T. | |
| T.P. | 10 990 | 373 428 | 1 206 | 362 438 | | |
| " | 9658 | 382 004 | 1 082 | 372 346 | | |
| " | 10 132 | 390 527 | 1 609 | 380 395 | | |
| " | 8 432 | 395 949 | 3010 | 387 517 | | |
| WEST FIX | 2323 | 396 412 | 1 860 | 394 089 | WEST FIX (MON) | |
| T.P | 0230 | 385 333 | 11 309 | 385 103 | | |
| " | 0 768 | 374 356 | 11 745 | 373 588 | | |
| " | 0 185 | 362 979 | 11 562 | 362 794 | | |
| " | 3 990 | 355 419 | 11 550 | 351 429 | | |
| | 9 548 | 360 023 | 4944 | 350 475 | | |
| | 6 501 | 363 016 | 3 508 | 356 515 | | |
| | 0 231 | 350 968 | 12 279 | 350 737 | | |
| | 0 337 | 339 237 | 12 068 | 338 900 | | |
| | 0 308 | 327 201 | 12 344 | 326 893 | | |
| H-2 | | | 9 223 | 317 978 | H-2 | |

76-L-298 CE 307 5-66

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No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chk'd ____ Checked ____ Survey by DREIER Notes DREIER Date 7-16-70
No. ____ Date ____ Date ____ Map No. ____ Indexed G.J. GALLI Date JL 30 70

F. B. 2483 PG. 53

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE B | | |
|---|---|---|---|---|---|---|---|
| H-2 | 1649 | 319627 | | 317978 | H-2 | CONT | mon. |
| T.P. | 1839 | 312314 | 9152 | 310475 | | | |
| | 4416 | 307219 | 9511 | 302803 | | | |
| H-4 | 5657 | 308674 | 4202 | 303017 | H-4 | 2nd I.P. | |
| T.P. | 0312 | 301801 | 7185 | 301489 | | | |
| | 3537 | 293677 | 11661 | 290140 | | | |
| | 12091 | 304738 | 1030 | 292647 | | | |
| | 11562 | 316077 | 0223 | 304515 | | | |
| | 10090 | 323185 | 2982 | 313095 | | | |
| | 11718 | 331058 | 3845 | 319340 | | | |
| PT 5 | 1222 | 331430 | 0850 | 330208 | P.T 5 | B. SPK W. &T. | PEPPERTREE & LIMETREE |
| T.P | 1018 | 320645 | 11803 | 319627 | | | |
| " | 0322 | 308984 | 11983 | 308662 | | | |
| PT. 6B | 0328 | 302928 | 6384 | 302600 | PT 6B | B. SPK. W. &T. | PEPPERTREE & KUMQUAT |
| T.P. | 0212 | 291213 | 11927 | 291001 | | | |
| " | 0600 | 279746 | 12067 | 279146 | | | |
| | 0511 | 270335 | 9922 | 269824 | | | |
| | 0904 | 260649 | 10590 | 259745 | | | |
| | 0629 | 249381 | 11897 | 248752 | | | |
| | 0283 | 238231 | 11433 | 237948 | | | |
| | | | 10728 | 227503 | | | |

76-L-298 CE 307 5-66

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F. B. 2483 PG. 54 | Job No. 002164 | Division No. 11 | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | Date | No.
Survey by DREIER Notes DREIER | Notes Chk'd. | Checked | X-Sec.
Indexed C. J. GALLI | Date | Date | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE B | |
|---|---|---|---|---|---|---|
| T.P. | 0448 | 227 951 | | 227 503 | T.P. CONC. | |
| " | 2053 | 219 014 | 10990 | 216 961 | | |
| " | 2313 | 209 002 | 12325 | 206 689 | | |
| B.M. "C" | 0221 | 201 203 | 8020 | 200 982 | B.M. "C" PEPPERTREE & VILLA FRANCECA | |
| U.S.C.&G.S. X977 | 8084 | 197 316 | 11 971 | 189 232 | | |
| | 11582 | | | | | |
| | ~~0935~~ | 207 963 | 0 935 | 196 381 | | |
| | 9952 | 214 565 | 3350 | 204 613 | | |
| K-1 | 2048 | 212 393 | 4220 | 210 345 | K-1 | |
| | 0 389 | 201 433 | 11 349 | 201 044 | | |
| | 3 650 | 194 034 | 11 049 | 190 384 | x | |
| | 1 209 | 190 753 | 4490 | 189 544 | | |
| | 3050 | 191 141 | 2662 | 188 091 | | |
| | 0612 | 180 687 | 11 066 | 180075 | | |
| | 2606 | 172 016 | 11 277 | 169 410 | | |
| B.M. 34-18 | | | 3188 | 168828 | B.M. 34-18 | |

F. B. 2483 PG. 55

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0021.64 Division No. 11

Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE

X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey by DREIER Notes DREIER Date 7-17-70

Date ____ Date ____ Map No. ____ Indexed G. L. GALLI Date JL 30 70

JOB NO. 0021.64

PORTUGUESE BEND LANDSLIDE

LEVEL LINE NO "C", JULY 1970

DREIER
SIEMANN
PRIEBE

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| | | | | |

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78-L-298 CE 307 5-66

76-L-298 CE 307 5-66

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F. B. 2483 Pg. 56 | Job No. 0021.64 Division No. | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | No. | X-Sec.
Survey by DREIER Notes DREIER 7-17-70 | Notes Chk'd. | Checked
Indexed C. J. GALLI | Date | Date | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE C | |
|---|---|---|---|---|---|---|
| TANK | 0448 | 475970 | | 475522 | TANK | |
| T.P | 1441 | 465783 | 11628 | 464342 | | |
| | 0268 | 454822 | 11229 | 454554 | | |
| | 0277 | 444639 | 10460 | 444362 | | |
| | 0253 | 432804 | 12088 | 432551 | | |
| | 2200 | 423793 | 11211 | 421593 | | |
| | 4450 | 420952 | 7291 | 416562 | | |
| | 3021 | 417421 | 6552 | 414400 | P.B. 9A | B. SPK W. & T. N. OF POLE E. OF DRWY TO "B" 84 |
| | 3362 | 413382 | 7401 | 410020 | P.B. 9B | B. SPK W. & T. 23' N.W. OF POLE E. of "B" 80 |
| | 4291 | 411564 | 6109 | 407273 | | |
| | 9908 | 414472 | 7000 | 404564 | | |
| AC-3 | 2698 | 414419 | 2711 | 411761 | AC-3 | mon. |
| | 5778 | 410437 | 9760 | 404659 | | |
| P.B. 9 | 5602 | 409953 | 6086 | 404351 | P.B. 9 | |
| | 6869 | 413311 | 3511 | 406442 | | |
| P.I. 5B | 5224 | 415606 | 2929 | 410382 | P.I. 5B | |
| | 1968 | 413534 | 4040 | 411566 | | |
| | 1022 | 406588 | 7968 | 405566 | T.B.M 30 | CINNIMON |
| | 7630 | 407766 | 6452 | 400136 | | |
| | 5952 | 410057 | 3661 | 404105 | | |
| P.I 4C | | | 3949 | 406108 | | PLUM TREE |

76-L-298 CE 307 5-66

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "C" | |
|---|---|---|---|---|---|---|
| P.I. 4C | 5699 | 411 807 | | 406 108 | P.I. 4C CONT | MON. |
| T.P. | 9601 | 420 016 | 1 392 | 410 415 | | |
| " | 11 088 | 429 323 | 1 781 | 418 235 | | |
| " | ~~9259~~ 8241 | 436814 | 0750 | 428 573 | | |
| FRUITTREE 1 | 11 940 | 436667 | 12087 | 424 727 | FRUITTREE 1 | MON. |
| T.P. | 0566 | 429135 | 8098 | 428 569 | | |
| " | 2852 | 420617 | 11 370 | 417765 | | |
| " | 7 440 | 426405 | 1652 | 418965 | | |
| " | 7397 | 428480 | 5322 | 421 083 | | |
| S.P.H.G-7, RM 1 | 4 719 | 426624 | 6575 | 421905 | R.M. 1 | |
| S.P.H. G-7 | 5671 | 426435 | 5860 | 420 764 | S.P.H. G-7 (CTR) | |
| " "RM.2 | 1 040 | 423 127 | 4348 | 422087 | R.M. 2 | |
| T.P. ~~R.M.2~~ | 0 020 | 412 759 | 10 388 | 412739 | | |
| " | 0 500 | 403522 | 9 737 | 403022 | | |
| " | 0 690 | 392429 | 11 783 | 391739 | | |
| " | 3 019 | 383 716 | 11 732 | 380 697 | | |
| " | 4163 | 3~~4~~80 517 | 7362 | 376 354 | | |
| P.I. 3A | 0 903 | 374 120 | 7300 | 3~~4~~73 217 | P.I. 3A | |
| T.P. | 0769 | 363 140 | 11 749 | 362 371 | | |
| " | 0 660 | 352 330 | 11 470 | 351 670 | | |
| " | | | 11 541 | 340 789 | | |

Profile Notes Red ____ Plotted ____ Job No. 0021,64 Division No. ____
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chk'd. ____ Checked ____ Survey by DREIER Notes DREIER Date 7-17-70
No. ____ Date ____ Date ____ Map No. ____ Indexed D.L. GALLI Date M 307

F. B. 2483 Pg. 57

76-L-298 CE 307 5-66

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F. B. 2483 Pg. 58 | Job No. 0021.64 Division No. | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | Date | No. | X-Sec.
Survey by DREIER Notes DREIER 7-17-70 | Notes Chk'd. | Checked | No.
Indexed C.J. GALLI | Date | Date

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE C | |
|---|---|---|---|---|---|---|
| T.P. | 2 379 | 343 168 | | 340 789 | CONT | |
| P.I. 1A | 1 927 | 335 835 | 9260 | 333 908 | P.I. 1A | FIGTREE |
| T.P. | 0 224 | 323 860 | 12 199 | 323 636 | | |
| " | 0 515 | 312 052 | 12 323 | 311 537 | | |
| " | 0 378 | 300 910 | 11 520 | 300 532 | | |
| " | 0 111 | 289 518 | 11 503 | 289 407 | (Mistake noted & corrected in abstracts 7-31-70 RJM. | |
| " | 10 401 | 291 304 | 8 615 | 280 903 | | |
| S.P.H. H-7A Ecc 2 | 3 346 | 291 810 | 2 830 | 288 464 | S.P.H., H-7A, Ecc 2 | |
| " " Ecc 4 | 3 310 | 291 745 | 3 375 | 288 435 | 4 | |
| " " 1 | 3 350 | 291 693 | 3 402 | 288 343 | 1 | BEEN HIT, LEANS NLY |
| " " CTR. | 1 632 | 290 284 | 3 041 | 288 652 | CTR. | " " " " |
| T.P. | 8 390 | 289 291 | 9 383 | 280 901 | | |
| " | 11 810 | 300 733 | 0 368 | 288 923 | | |
| " | 11 564 | 312 092 | 0 205 | 300 528 | | |
| " | 11 882 | 323 414 | 0 560 | 311 532 | | |
| " | 12 350 | 335 723 | 0 041 | 323 373 | | |
| " | 8 348 | 334 241 | 1 830 | 333 893 | X | |
| " | 0 218 | 322 970 | 11 489 | 322 752 | | |
| " | 0 303 | 310 973 | 12 300 | 310 670 | | |
| " | 0 010 | 299 467 | 11 516 | 299 457 | | |
| " | | | 11 323 | 288 144 | | |

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE of "C" | |
|---|---|---|---|---|---|---|
| T.P. | 0269 | 288413 | | 288 144 | CONT | |
| " | 5168 | 284350 | 9231 | 279 182 | | |
| P.B 10 | 0102 | 279950 | 4502 | 279 8~~4~~5 8 | P.B. 10 | MON. |
| T.P | 1661 | 273041 | 8570 | 271380 | | |
| | 0013 | 261315 | 11739 | 261 302 | | |
| | 0545 | 250519 | 11341 | 249 974 | | |
| | 0906 | 239401 | 12024 | 238 495 | see note pg 58 | |
| | 0308 | 228327 | 11382 | 228 019 | | |
| | 0330 | 217264 | 11393 | 216 934 | | |
| | 5492 | 217491 | 5265 | 211 999 | | SB SP. |
| WAYFARER 1 | 7481 | 218252 | 6720 | 210 7~~7~~8 1 | WAYFARER 1 | |
| T.P | 5555 | 218067 | 5740 | 212 512 | | |
| WAYFARER | 0645 | 214302 | 4410 | 213 6~~5~~6 7 | WAYFARER | L.&T. |
| T.P. | 0462 | 202794 | 11970 | 202 332 | | |
| " | 0559 | 191243 | 12110 | 190 684 | | |
| " | 0455 | 179726 | 11972 | 179 271 | | |
| " | 1682 | 170473 | 10935 | 168 791 | | |
| T.B.M. 31 | 4066 | 171477 | 3062 | 167 4~~1~~2 1 | T.B.M. #31 | |
| P-2 | 4395 | 168060 | 7812 | 163 6~~6~~7 5 | P-2 | |
| | 4378 | 166401 | 6037 | 162 023 | | |
| | | | 6250 | 160 151 | | |

Profile Notes Red ____ Plotted ____ Job No. 0021.64 Division No. ____
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chk'd. ____ Checked ____ Survey by DREIER Notes DREIER Date 7-17-70
No. ____ Date ____ Date ____ Map No. ____ Indexed G. J. GALLI Date JUL 30 '70

F. B. 2483 PG. 59

F. B. 2483 PG. 60

Job No. 002164 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of PORTUGUESE BEND LANDSLIDE Date _____ Date _____ No. _____

Survey by DREIER Notes DREIER Notes Chk'd. _____ Checked _____ X-Sec.

Indexed C. J. GALLI Date _____ Date _____ Date _____ No. _____

76-L-298 CE 307 5-66

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| STATION | B. S. | H. I. | F. S. | ELEV. | |
|---|---|---|---|---|---|
| T.P. | 4 410 | 164 561 | | 160 151 | |
| " | 4878 | 163 210 | 6 229 | 158332 | |
| " | 10 160 | 171 130 | 2 240 | 160 970 | |
| B.M. 34-18 | | | 2 282 | 168 848 | |
| | | | | | LINE "C" CONT. |
| | | | | | See book M.S. 58 |

F. B. 2483 Pg. 61

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0021.64 Division No. 11
Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey by DREIER Notes ____ Date ____
Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date 8 30 70

JOB NO. 0021.64

PORTUGUESE BEND LANDSLIDE

LEVEL CIRCUIT "D" JULY 1970

DREIER
SIEMANN
PRIEBE

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|

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6-66

76-L-298 CE 307 5-66

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76-L-298

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F. B. 2483 PG 62
Job No 0021.64 Division No. 11 Notes Red Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date 7-20-70 Date No. X-Sec.
Survey by DREIER Notes SIEMANN Notes Chk'd. Checked No.
Indexed C.J. GALLI Date Date Date

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE D |
|---|---|---|---|---|---|
| B.M. 34-14A | 3399 | 234607 | | 231 208 | B.M. 34-14A, 1964 ELEV. 231.208 PER PAGE 34 |
| TP | 3 501 | 232026 | 6082228525 | | |
| TP | 3 864 | 229479 | 6411225615 | | |
| TP | 3 100 | 225067 | 7512221967 | | |
| TP | 3 022 | 219659 | 8430216637 | | |
| TP | 3311 | 215184 | 7786211873 | | |
| B.M. 50-13 | 3 660 | 211774 | 7070208114 | | B.M. 50-13 1965 ADJ. EL. = 208.086 |
| TP | 3 130 | 207364 | 7540204234 | | FB 2400-22 |
| TP | 2333 | 200263 | 9434197930 | | |
| TP | 11 223 | 210257 | 1229199034 | | |
| TP | 12011 | 222106 | 0162210095 | | |
| TP | 12107 | 234086 | 0127221979 | | |
| TP | 11942 | 245425 | 0603233483 | | |
| TP | 11 094 | 256024 | 0495244930 | | |
| TP | - 11 668 | 267458 | 0234255790 | | |
| TP | - 11 631 | 278772 | 0317267141 | | |
| TP | 11 882 | 290160 | 0494278278 | | |
| TP | 12 129 | 298720 | 3569286591 | | |
| TP | 10500 | 307796 | 1424297296 | | |
| TP | 7506 | 314766 | 0536307260 | | |
| TP | | | 5506309260 | | |

76-L-298 CE 307 5-66

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**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "D" | | |
|---|---|---|---|---|---|---|---|
| | 5411 | 314671 | | 309260 | | | |
| SHIELDS | 4010 | 314301 | 4380 | 310291 | SHIELDS | C.E. MON | 309,791 |
| TP | 3105 | 312676 | 4730 | 309571 | | | |
| TP | 6422 | 315207 | 3891 | 308785 | | | |
| TP | 0442 | 303749 | 11900 | 303307 | | | |
| TP | 0609 | 292536 | 11822 | 291927 | | | |
| TP | 0453 | 284037 | 9952 | 282584 | | | |
| TP GED 8-6-70 | 0320 | 273353 | 11004 | 272033 | | | |
| TP | 0180 | 261[illegible] | 12101 | 260252 | | | |
| TP | 0220 | 249684 | 11968 | 248464 | | | |
| TP | 0544 | 238566 | 11662 | 237022 | | | |
| TP | 0488 | 227543 | 11511 | 226055 | | | |
| TP | 0740 | 216786 | 11497 | 215046 | | | |
| TP | 0288 | 205042 | 12032 | 203754 | 177 | | |
| J-5 | 8222 | 203399 | 9865 | 195177 | J-5 | MON | |
| T.P. | 8373 | 211544 | 0228 | 203171 | | | |
| RADIAL 2 ECC 2 | 5646 | 212192 | 4998 | 206546 | RADIAL 2 ECC. 2 | MON | |
| J-4 | 1500 | 208124 | 5468 | 206724 | J-4 | MON | |
| T.P. | 3876 | 199829 | 12271 | 195953 | | | |
| J-3 | 3935 | 199682 | 4082 | 195747 | J-3 | | |
| T.P. | | | 2111 | 197571 | | | |

Profile Notes Red ____ Plotted ____ Job No. [illegible] Division No. 11 F. B. 2483 Pg. 63
No. ____ Date ____ Date ____ Survey of [illegible] Notes [illegible] Date [illegible]
X-Sec. Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date [illegible]
No. ____ Date ____ Date ____ Map No. ____ Indexed G. J. GALLI Date JUL 30 '70

76-L-298 CE 307 5-66

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**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE D | |
|---|---|---|---|---|---|---|
| T.P | 0 249 | 197820 | | 197 571 | CONT | |
| T.P. | 5 124 | 192 106 | 10 838 | 186 982 | | |
| J-1 | 7 942 | 192720 | 7 328 | 184 788 | J-1 3/4" I.P. | |
| T.P | 12 055 | 201 555 | 3 220 | 189 500 | | |
| " | 12 133 | 212 949 | 0 739 | 200 816 | | |
| " | 10 550 | 222 659 | 0 844 | 212 109 | | |
| " | 3 848 | 223 349 | 3 158 | 219 501 | | |
| J-1A | 12 050 | 230 651 | 4 748 | 218 601 | J-1A DION. | |
| T.P | 12 155 | 242 416 | 0 390 | 230261 | | |
| " | 11 980 | 254 028 | 0 368 | 242 048 | | |
| " | 12 080 | 265 787 | 0 321 | 253 707 | | |
| " | 12 302 | 278 089 | 0 068 | 265 787 | | |
| " | 10 854 | 288 334 | 0 609 | 277 480 | | |
| | 9 658 | 296 232 | 1 752 | 286 577 | | |
| BLAKESLEY | 11 982 | 303 228 | 4 938 | 291 246 | BLAKESLEY | |
| T.P. | 1 191 | 298 957 | 5 462 | 297 766 | | |
| " | 0 540 | 289 700 | 9 797 | 289 160 | | |
| " | 0 808 | 278 580 | 11 928 | 277 772 | | |
| " | 3 450 | 271 287 | 10 743 | 267 837 | | |
| " | 11 945 | 280 047 | 2 185 | 269 102 | | |
| " | | | 1 079 | 279 968 | 279.900 7-31-70 REH | |

CONT

F. B. 2483 PG. 64
Job No. 0021.64 Division No. 4
Survey of PORTUGUESE B
Survey by ____ Notes ____ Date ____ Notes Chk'd. ____ Date ____ Notes Red ____ Date ____ Plotted ____ Date ____ Profile ____ No. ____ X-Sec. ____ No. ____
Indexed C. J. GALLI

76-L-298 CE 307 5-66

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE D | |
|---|---|---|---|---|---|---|
| T.P. | 10985 | 290 ~~953~~ | | 279 ~~968~~ | T.P. CONT. | |
| | 11794 | 302 ~~501~~ | 0246 | 290 ~~707~~ | | |
| | 8046 | 310 ~~021~~ | 0520 | 301 ~~981~~ | | |
| P-4 | 0622 | 301 ~~913~~ | 8130 | 301 ~~891~~ 823 | P.4 | 301.848 |
| | 0237 | 290 ~~453~~ | 11697 | 290 ~~216~~ | | |
| | 0035 | 278 ~~586~~ | 11902 | 278 ~~551~~ | | |
| | 0371 | 266 ~~895~~ | 12062 | 266 ~~524~~ | | |
| | 0349 | 256 ~~146~~ | 11098 | 255 ~~797~~ | | |
| | 1498 | 246 ~~007~~ | 11637 | 244 ~~509~~ | | |
| | 0550 | 234 ~~647~~ | 11910 | 234 ~~097~~ | | |
| | 0663 | 223 ~~207~~ | 12103 | 222 ~~544~~ | | |
| | 0370 | 212 ~~457~~ | 11120 | 212 ~~087~~ | | |
| | 0383 | 201 ~~210~~ | 11530 | 200 ~~827~~ | | |
| | 0273 | 189 ~~247~~ | 12236 | 188 ~~974~~ | | |
| | 0162 | 177 ~~369~~ | 12040 | 177 ~~207~~ | | |
| | 4205 | 173 ~~264~~ | 8310 | 169 ~~087~~ | | |
| BM.34-18 | | | 4714 | 168 ~~550~~ | BM. 34-18 | 1964 Elev. 168.614 |
| | | | | 168.482 R.E.H. | 168.526 | |

NOTE: CORRECTED VALUES FOR H.I. & ELEV. ARE 0.068 LESS SEE Pg. 64. R.E.H.

Profile Notes Red ____ Plotted ____ Job No. 0021.64 Division No. 11
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chk'd. ____ Checked ____ Survey by DREIER Notes DREIER Date 7-21-70
No. ____ Date ____ Date ____ Map No. ____ Indexed G. J. GALLI Date JUL 30 '70

F. B. 2483 Pg. 65

F. B. 2483 PG. 67

Profile No. ____ Notes Red ____ Plotted ____ Job No 0021.64 Division No. 11

Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE

X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey by DREIER Notes ____ Date 7-21-70

Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date JL 30 70

JOB NO 0021.64

PORTUGUESE BEND LANDSLIDE

LINE "E" JULY 1970

DREIER
SIEMANN
PRIEBE

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| | | | | |

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F.B. 2483 · PG. 68 | Job No. 002,64 | Division No. 11 | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | Date | No. | X-Sec.
Survey by DREIER | Notes DREIER | Notes Chk'd. | Checked | No.
Indexed C.L. CALL | Date | Date | Date

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "E" | |
|---|---|---|---|---|---|---|
| B.M. 34-14A | 4 668 | 235 876 | | 231208 | B.M. 34-14A | 1964 ELEV 231,208 PER PAGE 34 |
| B.M. 34-15A | 0 641 | 231 628 | 4 889 | 230 987 | B.M. 34-15A | |
| T.P. | 0 768 | 220 314 | 12 082 | 219 546 | | |
| " | 2 973 | 213 654 | 9 633 | 210 681 | | |
| " | 2918 | 208 721 | 7851 | 205803 | | |
| | 0932 | ~~209~~ 393 | 12260 | 196461 | | |
| | 0358 | 186 531 | 11 220 | 186 173 | | |
| | 4078 | 179 619 | 10 990 | 175 541 | | |
| K-10A | 3 612 | 176 349 | 6 882 | 172 737 | K-10A | |
| K-10B | 5 640 | 175 176 | 6813 | 169 536 | K-10 B | 2" I.P. & B.SPK |
| K-10C | 7432 | 175 581 | 7027 | 168149 | K-10 C | L&T |
| B.SPK | ~~2618~~ OK | 170 745 | 7454 | 168 127 | ~~K-T~~ | B.SPK ABOVE K-10 |
| | | | ~~7263~~ | - 0930 | DEEP | |
| K-10 | ~~2618~~ | | | 167197 | K-10 | MON. |
| K-9A | 5520 | 169 002 | 7 263 | 163482 | K-9A | B.SPK. W&T. |
| K-9B | 3038 | 164 822 | 7218 | 161784 | K-9B | 2" I.P. & B.SPK |
| T.P. | 3697 | 166 611 | 1908 | 162914 | | |
| K-9 | 4102 | 163 509 | 7 204 | 159 407 | K-9 | 3/4" I.P. & TAG |
| K-8A | 1341 | 159 279 | 5571 | 157938 | K-8A | B. SPK. W. & T. |
| K-8B | 2 968 | 158 517 | 3730 | 155549 | K-8B | 2" I.P. WITH B.SPK. |
| TIP | | | 11424 | 147 093 | | |

76-L-298 CE 307 5-66

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "E" | |
|---|---|---|---|---|---|---|
| T.P | 0 162 | 147 255 | | 147 093 | CONT. | |
| " | 0 573 | 136 149 | 11 679 | 135 576 | | |
| " | 0 879 | 125 218 | 11 810 | 124 339 | | |
| " | 2 162 | 115 807 | 11 573 | 113 645 | | |
| W-3 | 4 281 | 113 538 | 6 550 | 109 257 | W-3 MON. | |
| T.P | 11 050 | 124 279 | 0 309 | 113 229 | | |
| " | 12 119 | 136 323 | 0 075 | 124 204 | ~~K-5~~ | |
| K-5 | 0 328 | 136 330 | 0 321 | 136 002 | K-5 MON. | |
| T.P. | 0 541 | 124 745 | 12 126 | 124 204 | | |
| " | 2 050 | 114 715 | 12 080 | 112 665 | | |
| " | 4 355 | 108 630 | 10 440 | 104 275 | | |
| K-5 AUX. | 0 233 | 101 946 | 6 917 | 101 713 | K-5 AUX | |
| | 0 344 | 90 968 | 11 322 | 90 624 | | |
| | 0 361 | 80 235 | 11 094 | 79 874 | | |
| | 0 101 | 68 593 | 11 743 | 68 492 | | |
| | 1 889 | 58 492 | 11 990 | 56 603 | | |
| | 7 030 | 54 589 | 10 933 | 47 559 | | |
| | 4 569 | 51 761 | 7 397 | 47 192 | | |
| T.B.M. 28 | 6 630 | 53 863 | 4 528 | 47 233 | T.B.M. 28 B.SPK +6 | |
| K-3A | 3 836 | 51 445 | 6 254 | 47 609 | K-3A MON. | |
| | | | 12 029 | 39 416 | | |

Profile Notes Red ____ Plotted ____ Job No. 0021.64 Division No. 11 F. B. 2483 PG. 69
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chk'd. ____ Checked ____ Survey by DREIER Notes DREIER Date 7-21-70
No. ____ Date ____ Date ____ Map No. ____ Indexed G. J. GALLI Date JUL 30 '70

76-L-298 CE 307 5-66

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F. B. 2483 Pg. 70 | Job No. 0021.64 | Division No. 4 | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | Date | No.
Survey by DREIER Notes DREIER | Notes Chk'd. | Checked | X-Sec.
Indexed C. J. GALLI | Date | Date | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "E" | | |
|---|---|---|---|---|---|---|---|
| T.P. | 1861 | 41 277 | | 39 416 | | CONT | |
| " | 5421 | 34 775 | 11 923 | 29 354 | | | |
| " | 11 482 | 45 835 | 0 422 | 34 353 | | | |
| " | 6232 | 47 835 | 4232 | 41 603 | | | 35 234 |
| K-2A | 1362 | 47 827 | 1370 | 46 465 | K-2A | 2" I.P. | 6740 |
| " | 0388 | 36 502 | 11 713 | 36 114 | | | |
| " | 9429 | 38 573 | 7358 | 29 144 | | | |
| " | 11 895 | 49 963 | 0505 | 38 068 | | | |
| " | 7782 | 54 450 | 3295 | 46 668 | | | |
| | 1626 | 50 909 | 5167 | 49 283 | | | |
| | 0345 | 39 885 | 11 369 | 39 540 | | | |
| | 5298 | 33 594 | 11 581 | 28 304 | | | |
| | 0717 | 23 110 | 11 201 | 22 393 | | | |
| | 5164 | 17 764 | 10 510 | 12 600 | | | |
| | 3452 | 17 195 | 4021 | 13 743 | | | |
| | 4990 | 18 613 | 3572 | 13 623 | | | |
| PB 8 | ~~10 278~~ | | 10 575 | 8038 | P.B. 8 | SPK IN TOP OF ROCK & CONC. GRAIN | |

| | |
|---|---|
| Notes Ck'd by | Survey of PORTUGUESE BEND LANDSLIDE F. B. 2483 PG. 71 |
| Map No. | JN 0021.64 Tape Std °F |
| Office Work | Surveyed by DREIER |
| Checked | Notes DREIER Date 1-29-71 |
| Date | Indexed C. L. GALLI 2 T |

# JOB NO 0021.64

# PORTUGUESE BEND LANDSLIDE

ANGULAR CHECK ON WAYFARER FEB. 1971

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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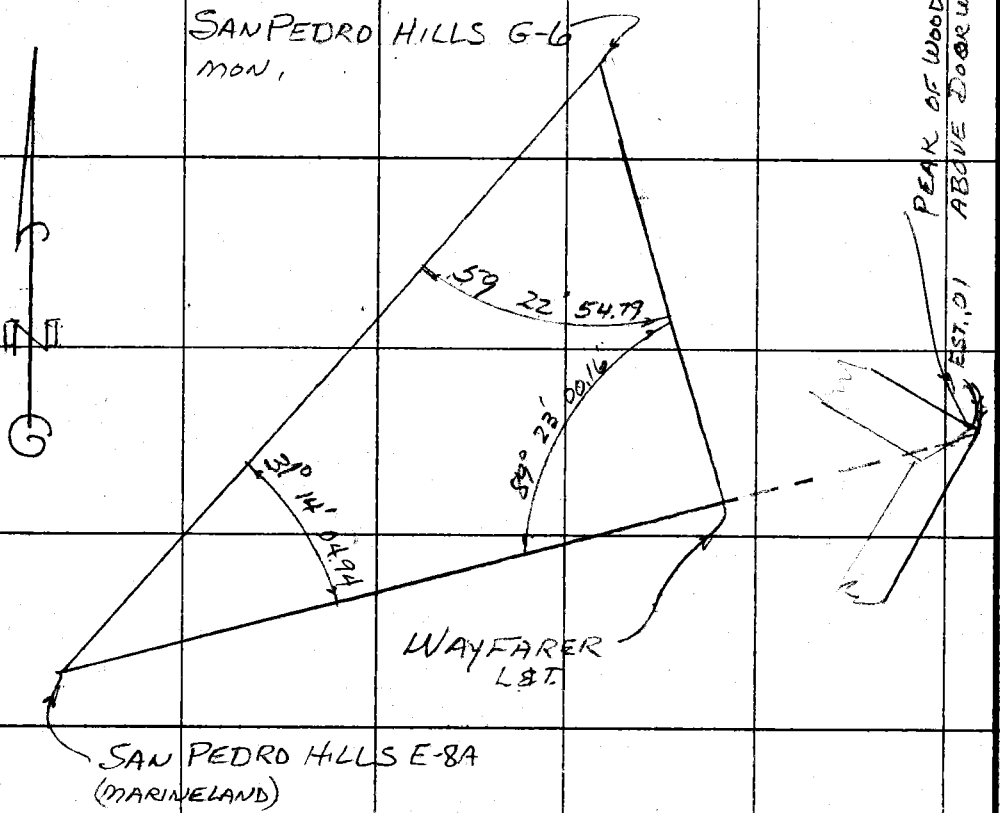
403 LOS ANGELES COUNTY ENGINEERING BLDG.

16F309 CE#310 3-69

F. B. 2483 PG. 72

ANGLES PER F.B.G.1284-42.70 47

| | | | |
|---|---|---|---|
| S.P.HILLS G-6 | 59° | 22' | 54.79 |
| WAYFARER | 89 | 23 | 00.16 |
| S.P.HILLE E-8A | 31 | 14 | 04.94 |
| | 179° | 59' | 59.89" |

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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Profile No. ____ X-Sec. No. ____

Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 0021.64 Division No. 11

Notes Chk'd. ____ Date ____ Checked ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE

Survey by DREIER Notes DREIER Date FEB. 1971

Map No. ____ Indexed [redacted] Date [redacted]

F. B. 2483 PG. 73

JOB NO. 0021.64

PORTUGUESE BEND LANDSLIDE

FEB. 1971 RELEVELING LINE "A"

DREIER
MALDONADO
SIEMANN
~~MCKNIGHT~~

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|

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F.B. 2483 Pg. 74 | Job No. 0021.64 | Division No. 11 | Notes Red | Plotted | Profile
Survey of Portuguese Bend Landslide | Date | Date | No. | X-Sec.
Survey by Dreier Notes Dreier 2-1-71 | Notes Ch'd. RCB Checked 3-71
Indexed 0.1 GALI | Date | Date | Date | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE 'A' | |
|---|---|---|---|---|---|---|
| B.M.50-7 | 4 459 | 1205 906 | | 1201 447 | B.M. 50-7 ELEV. 1201.447 (1970 PRECISE ADJ.) CRENSHAW BLVD & CREST RD., N.E. COR. POURED MON. | |
| | 0 436 | 1197 615 | 8 727 | 1197 179 | | |
| | 1 199 | 1186 971 | 11 843 | 1185 772 | | |
| | 0 749 | 1177 528 | 10 192 | 1176 779 | | |
| | 1 868 | 1167 874 | 11 522 | 1166 006 | | |
| B.M. C-1 | 7 559 | 1168 212 | 7 221 | 1160 653 | B.M. C-1 CRENSHAW BLVD. & WHITLEY COLLINS DR. N.W. COR., B.SPK IN S.E. COR OF EDISON M.H. | |
| | 8 458 | 1175 168 | 1 502 | 1166 710 | | |
| | 9 148 | 1182 394 | 1 922 | 1173 246 | | |
| | 6 457 | 1187 009 | 1 842 | 1180 552 | | |
| | 5 048 | 1187 066 | 4 991 | 1182 018 | | |
| B.M.50-8 | 5 132 | 1185 378 | 4 820 | 1182 246 | B.M. 50-8 ELEV. 1182.205, 1970 PRECISE CRENSHAW BLVD. E. OF SEACREST, POURED MON. | |
| | 1 288 | 1176 774 | 9 892 | 1175 486 | | |
| | 1 425 | 1169 296 | 8 903 | 1167 871 | | |
| | 0 300 | 1157 778 | 11 818 | 1157 478 | | |
| | 0 512 | 1147 531 | 10 759 | 1147 019 | | |
| | 0 523 | 1136 354 | 11 700 | 1135 831 | | |
| | 0 559 | 1125 942 | 10 971 | 1125 383 | | |
| | 0 264 | 1114 708 | 11 498 | 1114 444 | | |
| | 0 445 | 1103 622 | 11 531 | 1103 177 | | |
| | 2 775 | 1095 936 | 10 461 | 1093 161 | | |
| B.M. C-2 | 0 408 | 1091 713 | 4 631 | 1091 305 | B.M. C-2 B.SPK IN LARGE BOULDER IN CRENSHAW BLVD. | |

76-L-298 CE 307 5-66

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**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A CONT. |
|---|---|---|---|---|---|
| | | 1091 713 | | | |
| | 1 840 | 1081 643 | 11 910 | 1079 803 | |
| | 1 051 | 1070 751 | 11 943 | 1069 700 | |
| | 0 180 | 1059 762 | 11 169 | 1059 582 | |
| | 0 622 | 1048 856 | 11 528 | 1048 234 | |
| | 0 202 | 1037 330 | 11 728 | 1037 128 | |
| | 0 406 | 1026 237 | 11 499 | 1025 831 | |
| | 3 324 | 1018 621 | 10 940 | 1015 297 | |
| | 1 270 | 1009 660 | 10 231 | 1008 390 | |
| B.M. 50-9 | 10 552 | 1010 022 | 10 190 | 999 470 | B.M. 50-9 ELEV 999.460 1970 PRECISE FOURED MON. ON W. SIDE CRENSHAW OPPOS WATER TANK |
| | 0 437 | 998 687 | 11 772 | 998 250 | |
| | 0 507 | 988 112 | 11 082 | 987 605 | |
| | 0 383 | 976 875 | 11 620 | 976 492 | |
| | 0 338 | 965 367 | 11 846 | 965 029 | |
| | 0 227 | 954 817 | 10 777 | 954 590 | |
| T.B.M. 11 | 2 757 | 950 062 | 7 512 | 947 305 | T.B.M. 11 B.M. 50-9A ELEV. 947.303 1970 PRECISE P.K. SPK IN ROCK WALL |
| | 2 941 | 942 873 | 10 130 | 939 932 | |
| Z-1 | 0 462 | 935 683 | 7 652 | 935 221 | B.M. Z-1 PRECAST MON. |
| | 0 310 | 924 533 | 11 460 | 924 223 | |
| | 0 515 | 913 087 | 11 961 | 912 572 | |
| | 0 222 | 901 919 | 11 390 | 901 697 | |
| | 0 450 | 891 369 | 11 000 | 890 919 | |

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0021.64 Division No. 11 F.B. 2483 PG. 75
X-Sec. No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
Notes Chk'd. RCB Checked 3-71 Survey by DREIER Notes DREIER Date FEB 1 1971
Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date ____

76-L-298 CE 307 5-66

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F. B. 2483 Pg. 76 | Job No. 002164 | Division No. 11 | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | Date | No.
Survey by DREIER | Notes DREIER 2-1-71 | Notes Chk'd. RGB | Checked 3-71 | X-Sec.
Indexed C. I. GALLI | Date | Date | Date | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A. CONT. | |
|---|---|---|---|---|---|---|
| | | 891 369 | | | | |
| | 0 695 | 880 304 | 11 760 | 879 609 | | |
| | 0 902 | 870 374 | 10 832 | 869 472 | | |
| | 6 286 | 865 349 | 11 311 | 859 063 | | |
| B.M 50-10 | 5 040 | 863 207 | 7 182 | 858 167 | ✓ B.M. 50-10 ELEV.: 858.162 1970 PRECISE SLY SIDE OF CRASH STAND ROUND MON. | |
| | 0 660 | 852 498 | 11 369 | 851 838 | | |
| | 0 590 | 841 867 | 11 221 | 841 277 | | |
| | 0 438 | 830 683 | 11 622 | 830 245 | | |
| | 0 538 | 819 461 | 11 760 | 818 923 | | |
| | 0 861 | 808 429 | 11 893 | 807 568 | | |
| | 3 252 | 800 462 | 11 219 | 797 210 | | |
| Y-4 | 6 132 | 799 766 | 6 828 | 793 634 | ✓ Y-4 B.S.&K. IN CONC. IN 2" I. P. | |
| | 0 662 | 788 734 | 11 694 | 788 072 | | |
| T.B.M. # 12 | 9 402 | 786 604 | 11 532 | 777 202 | ✓ T.B.M. #12 B.M. 50-10A ELEV. 777.183 1970 PRECISE | |
| | 0 377 | 775 191 | 11 790 | 774 814 | | |
| | 0 610 | 763 984 | 11 817 | 763 374 | | |
| | 0 638 | 752 792 | 11 830 | 752 154 | | |
| | 0 472 | 741 562 | 11 702 | 741 090 | | |
| | 0 217 | 730 609 | 11 170 | 730 392 | | |
| | 0 318 | 719 068 | 11 859 | 718 750 | | |
| | 1 191 | 708 662 | 11 597 | 707 471 | | |
| | 0 674 | 698 132 | 11 204 | 697 458 | | |

76-L-298 CE 307 5-66

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Profile Notes Red ____ Plotted ____ Job No. 0021,64 Division No. 11
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chk'd. RCB Checked 3-71 Survey by DREIER Notes DREIER Date 2-2-71
No. ____ Date ____ Date ____ Map No. ____ Indexed C.L. CALLI Date MAR 2 71

F.B. 2483 PG. 77

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A | |
|---|---|---|---|---|---|---|
| | | ~~698 132~~ | | | | |
| | 0591 | 688 521 | 10202 | 687930 | | |
| | 1 603 | 679 224 | 10 900 | 677 621 | ✓T.B.M #13 P.K. SPK IN ROCK HEADWALL | |
| T.B.M. # 13 | 0 902 | 676928 | 3198 | 676026 | B.M. 50-108 ELEV. 676.097 1970 PRECISE | |
| | 0567 | 666 471 | 11 024 | 665904 | | |
| | 0 800 | 657 001 | 10 270 | 656 201 | | |
| | | | | | POURED MON. | |
| B.M. 50-11 | 3 122 | 650 689 | 9 434 | 647 567 | ✓B.M. 50-11 ELEV. 647, 634 1970 PRECISE | |
| | 0528 | 641820 | 9 397 | 641 292 | | |
| | 0319 | 631 326 | 10 813 | 631 007 | | |
| | 0 208 | 620 173 | 11 361 | 619 965 | | |
| | 0299 | 608978 | 11 494 | 608 679 | | |
| | 0 585 | 598166 | 11 397 | 597 581 | | |
| | 0 499 | 586 822 | 11 843 | 586 323 | | |
| | 0 321 | 575361 | 11 782 | 575040 | | |
| | 1 211 | 566 933 | 9 639 | 565 722 | | |
| | 0635 | 555 669 | 11 899 | 555 034 | | |
| | 0 518 | 546 217 | 9 970 | 545 699 | | |
| | 0595 | 535 169 | 11 643 | 534 574 | | |
| | 1534 | 525986 | 10 717 | 524452 | | |
| | 1 498 | 516010 | 11 474 | 514 512 | | |
| | 0 291 | 507531 | 8 770 | 507 240 | | |
| | 0 940 | 497234 | 11 237 | 496 294 | | |

76-L-298 CE 307 5-66

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F.B. 2483 PG. 78 | Job No. 0021.64 | Division No. | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | Date | No. | X-Sec.
Survey by DREIER | Notes DREIER | Notes Chk'd. RCG | Checked 3-71 | No.
Indexed C. J. GALT | Date | Date | Date

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "A" CONT. | |
|---|---|---|---|---|---|---|
| | | ~~497 234~~ | | | | |
| | 0 478 | 486 117 | 11 595 | 485 639 | | |
| | 4 858 | 479 323 | 11 652 | 474 465 | | |
| TANK | 2 326 | 477 582 | 4 067 | 475256 ✓ | TANK B.SPK W. & T. | NEAR WATER TANK |
| | 0 882 | 468 660 | 9 804 | 467 778 | | |
| | 1 327 | 460 128 | 9 859 | 458 801 | | |
| | 0 681 | 450 430 | 10 379 | 449 749 | NOTE B1C HAS FALLEN INTO CRACK OUT OF | REACH |
| | 0 689 | 441 238 | 9 881 | 440 549 | | |
| | 1 001 | 433 092 | 9 147 | 432 091 | | |
| | 0 201 | 422 153 | 11 140 | 421 952 | | |
| | 0 428 | 410 891 | 11 690 | 410 463 | | |
| | 0 861 | 401 221 | 10 531 | 400 360 | | |
| | 1333 | 392 805 | 9 749 | 391 472 | | |
| | 3 661 | 390 227 | 6 239 | 386 566 | | |
| S.B. # 2 | 9052 | 392 552 | 6 727 | 383 500 ✓ | S.B. 2 B.SPK. W. & T. | |
| | 8 188 | 397 778 | 2 962 | 389 590 | | |
| P.T. 1 | 2 280 | 396 358 | 3 700 | 394 078 ✓ | P.T. 1 B. SPK W. & T. | |
| | 4 950 | 391 184 | 10 124 | 386 234 | | |
| B-1B | 7 644 | 393 873 | 4 955 | 386 229 ✓ | B. 1B. 2" I.P. & TAG. | |
| | 0 322 | 391 540 | 2 655 | 391 218 | | |
| | 1 440 | 381 225 | 11 755 | 379 785 | | |
| | 0 392 | 369 882 | 11 735 | 369 490 | | |

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A |
|---|---|---|---|---|---|
| | | ~~369 882~~ | | | CONT. |
| | 0 301 | 358 890 | 11 293 | 358 589 | |
| | 0 185 | 347 217 | 11 858 | 347 032 | |
| | 5 360 | 342 196 | 10 381 | 336 836 | |
| | 7 560 | 349 474 | 0 282 | 341 914 | |
| D-2 | 7 322 | 354 583 | 2 213 | 347 261 | ✓ D-2 PRECAST MON |
| | 9 484 | 362 457 | 1 610 | 352 973 | |
| | 11 428 | 372 705 | 1 180 | 361 277 | |
| | 5 279 | 376 415 | 1 569 | 371 136 | |
| DAVIS | 0 860 | 372 420 | 4 855 | 371 560 | ✓ DAVIS PRECAST MON. |
| | 0 189 | 361 108 | 11 501 | 360 919 | |
| | 0 240 | 349 611 | 11 737 | 349 371 | |
| | 0 740 | 338 693 | 11 658 | 337 953 | |
| | 2 365 | 329 650 | 11 408 | 327 285 | |
| A-4 | 5 590 | 328 065 | 7 175 | 322 475 | ✓ A-4 PRECAST MON. |
| | 2 630 | 320 002 | 10 693 | 317 372 | |
| A-3A | 11 388 | 321 368 | 10 022 | 309 980 | ✓ A-3A B.M. BUTTON CAP ON 2 I.P. |
| | 11 545 | 331 536 | 1 377 | 319 991 | |
| | 11 330 | 341 225 | 1 641 | 329 895 | |
| | 11 364 | 351 668 | 0 921 | 340 304 | |
| | 6 490 | 356 318 | 1 840 | 349 828 | |
| RADIAL 1 | 8 335 | 356 603 | 8 050 | 348 268 | ✓ RADIAL 1 PRECAST MON. |

Profile No. ____ Date ____ Notes Red ____ Plotted ____ Date ____ Job No. 0021.64 Division No. 11 Survey of PORTUGUESE BEND LANDSLIDE

X-Sec. No. ____ Date ____ Notes Chk'd. RCB Checked 3-71 Date ____ Survey by DREIER Notes DREIER Date ____

Map No. ____ Date ____ Indexed G. L. GALLI Date MAR 2 '71

F.B. 2483 PG. 79

F. B. 2483 PG. 80 | 0021.64

Job No. _____ Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of PORTUGUESE BEND LANDSLIDE Date _____ Date _____ No. _____

Survey by DREIER Notes DREIER Notes Chk'd. RKB Checked 3-71 X-Sec.

Indexed O. J. GALLI Date _____ Date _____ Date _____ No. _____

76-L-298 CE 307 5-66

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| STATION | B. S. | H. I. | F. S. | ELEV. | |
|---|---|---|---|---|---|
| | 4 470 | 356 603 | 11 480 | 345 123 | LINE A, cont. |
| | 0 320 | 349 593 | 11 948 | 337 645 | |
| | 6 462 | 337 965 | 11 522 | 326 443 | |
| BD, 50-12 | 9 690 | 332 905 | 3 159 | 329 746 | BD, 50-12 DONE |
| | 0 231 | 328 048 | 11 619 | 327 817 | |
| | 0 631 | 316 691 | 11 988 | 316 060 | |
| | 0 509 | 305 688 | 11 512 | 305 179 | |
| | 0 418 | 294 774 | 11 332 | 294 356 | |
| | 0 850 | 283 954 | 11 670 | 283 104 | |
| | 1 532 | 275 015 | 10 471 | 273 483 | |
| | 0 850 | 264 485 | 11 380 | 263 635 | |
| | 0 457 | 253 624 | 11 318 | 253 167 | |
| | 0 709 | 242 779 | 11 554 | 242 070 | |
| | 0 825 | 232 282 | 11 322 | 231 457 | |
| | 0 669 | 221 077 | 11 874 | 220 408 | |
| | 0 450 | 209 685 | 11 842 | 209 235 | |
| | 0 778 | 199 032 | 11 431 | 198 254 | |
| | 0 391 | 187 726 | 11 697 | 187 335 | |
| | 6 361 | 183 385 | 10 702 | 177 024 | |
| | 11 182 | 193 969 | 0 598 | 182 787 | |
| | 7 395 | 201 144 | 0 220 | 193 749 | |

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A |
|---|---|---|---|---|---|
| | | 201 144 | | | CONT. |
| | 7 473 | 208 038 | 0 579 | 200 565 | |
| | 7 077 | 213 113 | 2 002 | 206 036 | |
| B.M. 50-13 | 4 548 | 212 971 | 4 690 | 208 423 | ✓ B.M. 50-13 ELEV. 208.157 1970 PRECISE |
| 50-13A | 10 808 | 221 396 | 2 383 | 210 588 | ✓ 50-13A B.SPK IN ASPHALT CURB |
| | 11 729 | 231 904 | 1 221 | 220 175 | |
| | 9 830 | 241 506 | 0 228 | 231 676 | ✓ |
| K-6 | 4 731 | 241 426 | 4 811 | 236 695 | K-6 PRECAST MON. |
| | 0 231 | 231 907 | 9 750 | 231 676 | |
| | 1 487 | 221 659 | 11 735 | 220 172 | |
| | 7 372 | 217 959 | 11 072 | 210 587 | B. SPK IN CURB |
| | 7 471 | 224 752 | 0 678 | 217 281 | |
| | 6 982 | 229 844 | 1 890 | 222 862 | |
| | 6 349 | 232 221 | 3 972 | 225 872 | |
| | 5 742 | 234 573 | 3 390 | 228 831 | |
| B.M. 34-14A | 4 200 | 235 682 | 3 091 | 231 482 | ✓ ELEV. 231.260 1970 PRECISE B.M. 34-14A, U.S.C&G.S. DISC T 1053 1960. P.V. DR. S. & SCHOONER DR. N.W. COR IN CATCH BASIN |
| B.M. 34-15A | | | 4 428 | 231 254 | ✓ B.M. 34-15A B.SP. IN CURB. S.E. COR. |

Profile Notes Red ____ Plotted ____ Job No. 0021.64 Division No. ____
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chk'd. RCB Checked 3-71 Survey by DREIER Notes DREIER Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed B. J. GALLI Date MAR 2 71

F.B. 2483 PG. 81

F. B. 2483 PG. 83

Profile No. ____ X-Sec. No. ____

Notes Red ____ Date ____ Notes Chk'd. RCB Date 3-71

Plotted ____ Date ____ Checked ____ Date ____

Job No. 0021.64 Division No. 11

Survey of PORTUGUESE BEND LANDSLIDE

Survey by DREIER Notes ____ Date FEB 4 1971

Map No. ____ Indexed G. L. GALLI Date MAR 2 '71

JOB NO. 0021.64

PORTUGUESE BEND LAND SLIDE

1971, FEBRUARY RELEVELING LINE 'B'

DREIER
MALDONADO
SIEMANN
McNIGHT

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| | | | | |

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76-L-298 CE 307 5-66

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "B" |
|---|---|---|---|---|---|
| S.B. 2 | 8463 | 391.963 | | 383 500 | S.B.2 ELEV. 383.500 PER PAGE 78 |
| S.B. 1 | 1651 | 388 758 | 4856 | 387107 | S.B.1 SPK W. & T. |
| | 0790 | 380409 | 9139 | 379619 | L.&T. IN DRIVEWAY |
| T P. | 0668 | 370378 | 10699 | 369710 | |
| " | 2031 | 361150 | 11259 | 359119 | |
| S.B. 3 | 10 012 | 363 131 | 8031 | 353119 | S.B.3 SPK. W & T |
| T.P. | 10992 | 373 843 | 0280 | 362851 | |
| " | 11 983 | 385 134 | 0692 | 373157 | |
| " | 9 678 | 394 511 | 0301 | 384833 | |
| " | 8 740 | 398 292 | 4959 | 389552 | |
| " | 11111 | 397983 | 11 420 | 386872 | |
| WEST FIX | 3411 | 397432 | 3962 | 394021 | WEST FIX C.E. MON |
| T.P. | 1921 | 387620 | 11 733 | 385699 | |
| " | 0704 | 376644 | 11 680 | 375940 | |
| " | 2030 | 367923 | 10 751 | 365893 | |
| " | 6770 | 362785 | 11 908 | 356015 | |
| " | 0968 | 352063 | 11 690 | 351095 | |
| " | 0890 | 341166 | 11 787 | 340276 | |
| " | 0490 | 329798 | 11 858 | 329308 | |
| " | 2598 | 322105 | 10 291 | 319507 | |
| H-2 | 1393 | 318 733 | 4765 | 317340 | H-2 C.E. MON. |

F. B. 2483 PG. 84

Job No. 0021.64 Division No. 11 Notes Red Plotted Profile

Survey of PORTUGUESE BEND LANDSLIDE Date 2-4-71 Date No.

Survey by DREIER Notes SIEMANN Notes Chk'd. RCB Checked 3-71 X-Sec.

Indexed C.J. GALLI Date Date Date No.

76-L-298 CE 307 5-66

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| STATION | B. S. | H. I. 318 733 | F. S. | ELEV. | LINE "B" |
|---|---|---|---|---|---|
| T.P. | 1879 | 310989 | 9623 | 309110 | |
| " | 3971 | 307119 | 7841 | 303148 | |
| H-4 | 3642 | 306013 | 4748 | 302371 | H-4 2" I.P. CONC. PLUG & TAG |
| T.P. | 0261 | 296043 | 10231 | 295782 | |
| " | 9439 | 296363 | 9119 | 286924 | |
| | 11698 | 307812 | 0249 | 296114 | |
| | 10019 | 317548 | 0283 | 307529 | |
| | 11469 | 328462 | 0555 | 316993 | |
| | 4670 | 332694 | 0438 | 328024 | |
| P.T. 5 | 1489 | 330992 | 3191 | 329503 | P.T. 5 BT. SPK. W. CT. PEPPERTREE |
| T.P. | 0616 | 321572 | 10036 | 320956 | & LIMETREE LANE |
| " | 0838 | 311368 | 11042 | 310530 | |
| " | 4802 | 306649 | 9521 | 301847 | NOTE: P.T. 6B NOT FD. PAY'T RE[illegible] |
| P.T. 6C | 0768 | 305315 | 2102 | 304547 | PROBABLY REMOVED IT. |
| T.P. | 0595 | 294019 | 11891 | 293424 | SET PT 6C |
| " | 0512 | 282802 | 11729 | 282290 | PEPPERTREE DR. & KUMQUAT LANE, |
| " | 0752 | 272129 | 11425 | 271377 | N.E. COR. SET 2" I.P. 1 FT. W. OF POWER |
| " | 0330 | 260529 | 11930 | 260199 | POLE A 9063 Y |
| " | 0323 | 250028 | 10824 | 249705 | |
| " | 0837 | 238966 | 11899 | 238129 | |
| T.P. | 0990 | 229577 | 10379 | 228587 | |

Profile No. ____ Notes Red ____ Plotted ____ Job No. 2271.64 Division No. 11
Date ____ Date ____ Survey of [illegible]
X-Sec. No. ____ Notes Chk'd. RCB Checked 3-71 Survey by [illegible] Notes ____ Date [illegible]
Date ____ Date ____ Map No. ____ Indexed C. I. GALLI Date MAR 2 71

F.B. 2483 PG. 85

76-L-298 CE 307 5-66

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F.B. 2483 PG. 86 | Job No 202164 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of PORTUGUESE BEND LANDSLIDE Date ____ No. ____ X-Sec. ____
Survey by BRICE Notes SIEMANN 2-4-71 Notes Chk'd. RGB Checked 3-7-71
Indexed G.I. GALEN Date ____ Date ____ No. ____

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. 229.577 | F. S. | ELEV. | LINE "B" | |
|---|---|---|---|---|---|---|
| T.P. | 0574 | 218870 | 11281 | 218296 | | |
| " | 0606 | 208229 | 11247 | 207623 | | |
| " | 3714 | 203401 | 8542 | 199687 | | |
| B.M. C | 0911 | 201597 | 2715 | 200686 | B.M. C PEPPERTREE N. OF P.V. DR. S. | |
| T.P. X 977 | 6091 | 195827 | 11861 | 189736 | AT VILLAFRANCESCA DR. W. | |
| U.S.C.&G.S. | 6951 | 195859 | 6919 | 188908 | U.S.C.&G.S. X-977 1964 RESET 1966 | |
| T.P. | 10248 | 205708 | 0399 | 195460 | P.V. DR. S. & PEPPERTREE N.W. COR. | |
| " | 11733 | 217079 | 0362 | 205346 | | |
| " | 4588 | 221073 | 0594 | 216485 | | |
| K-1 | 1379 | 211423 | 11029 | 210044 | K-1 C.E. MON. | |
| T.P. | 1089 | 200614 | 11898 | 199525 | | |
| " | 2139 | 190992 | 11761 | 188853 | | |
| " | 0800 | 188974 | 2818 | 188174 | | |
| " | 0490 | 178965 | 10499 | 178475 | | |
| " | 2393 | 172226 | 9132 | 169333 | | |
| B.M. 34-18 | | | 3563 | 168663 | B.M. 34-18 ELEV 168.580 1970 PRECISE | |
| | | | | | END LINE "B" | |

Profile No. ____ X-Sec. No. ____

Notes Red ____ Date ____ Plotted ____ Date ____ Notes Chk'd. ____ Date ____ Checked ____ Date ____

Job No. 0021.64 Division No. 11

Survey of PORTUGUESE BEND LANDSLIDE

Survey by DREIER Notes ____ Date FEB 5, 1971

Map No. ____ Indexed G. L. GALLI Date MAR 2 '71

F. B. 2483 PG. 87

JOB NO 0021.64

# PORTUGUESE BEND LANDSLIDE

## FEBRUARY 1971 RELEVELING LINE "C"

DREIER
MALDONADO
SIEMANN
McKNIGHT

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| | | | | |

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F. B. 2483 Pg. 88 | Job No. 6021.64 | Division No. 11 | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | Date | No.
Survey by DRELEK Notes SIENKIEWICZ 2-5-71 | Notes Chk'd. RCG | Checked 3-71 | X-Sec.
Indexed G. J. GALLI | Date | Date | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE | "C" |
|---|---|---|---|---|---|---|
| TANK | 1968 | 477224 | | 475256 | TANK ELEV. 475,256 PER PAGE 78 | |
| T.P. | 0548 | 466236 | 11536 | 465688 | | |
| " | 0923 | 457504 | 9655 | 456581 | | |
| " | 0345 | 445899 | 11950 | 445554 | 412,212 | |
| " | 0981 | 435640 | 11240 | 434659 | | |
| " | 0531 | 424632 | 11539 | 424101 | | |
| " | 2729 | 419631 | 7730 | 416902 | | |
| " | 0481 | 414663 | 5449 | 414182 | ✓ P.B. 9A; FD SPK & W. | |
| " | 3072 | 410574 | 7161 | 407502 | (P.B. 9B NOT FOUND, THIN LAYER OF P.C., HAS BEEN ADDED) | |
| " | 9538 | 414030 | 6082 | 404492 | | |
| AC-3 | 2983 | 414516 | 2497 | 411533 | ✓ AC-3 CO. ENGR. MON. | |
| T.P. | 4361 | 407836 | 11041 | 403475 | | |
| P.B. 9 | 4951 | 409056 | 3731 | 404105 | ✓ P.B. 9 C.E. MON. ENRANCE TO VANDERLIP ESTATES | |
| T.P. | 6019 | 412924 | 2151 | 406905 | | |
| P.I. 5B | 4738 | 414864 | 2798 | 410126 | ✓ P.I. 5B NARCISSA DR. & & SWEETBAY RD. C.E. MON. 7' N. OF PAV'T. | |
| T.P. | 0599 | 412087 | 3376 | 411488 | | |
| T.B.M. #30 | 0752 | 406070 | 6769 | 405318 | ✓ T.B.M. #30 NARCISSA DR. & CINNAMON LANE. N.E. COR. ST. SPK. IN RACE 2" ABOVE ST. SURFACE | |
| T.P. | 6698 | 407728 | 5045 | 401025 | | |
| P.I. 4C | 5119 | 410951 | 1891 | 405832 | ✓ P.I. 4C. NARCISSA DR. & PLUM TREE RD. N.W. CO. C.E. MON. | |
| T.P. | 11199 | 421352 | 0798 | 410153 | | |
| T.P. | 11802 | 432607 | 1147 | 420205 | | |

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| STATION | B. S. | H. I. ~~432 607~~ | F. S. | ELEV. | LINE "C" |
|---|---|---|---|---|---|
| T P. | 2477 | 434076 | 0408 | 431 599 | |
| FRUIT TREE 1 | 11 697 | 436145 | 9628 | 424 448 | ✓ C.E. MON. FRUIT TREE 1 FRUIT TREE ROAD. N OF NARCISSA |
| T P | 0219 | 428 270 | 8094 | 428 051 | |
| " | 6952 | 423 491 | 11731 | 416 539 | |
| " | 8967 | 426 838 | 5620 | 417 871 | |
| " | 5003 | 426 102 | 6339 | 420499 | |
| " | 4771 | 426606 | 4 267 | 421 835 | |
| S PH G-7 R M 1 | 4501 | 426 139 | 4968 | 421 638 | ✓ S PH G-7 R M 1 REF MON 70'± TO STA. |
| S PH G-7 | 5768 | 426 256 | 5651 | 420488 | ✓ S PH. G-7 △ MON. |
| S PH. G-7 R M 2 | 1 808 | 423633 | 4431 | 421 825 | ✓ S.PH.G-7 R.M. 2 REF MON. 57'± TO STA |
| T. P. | 0748 | 415 914 | 8467 | 415 166 | |
| " | 3581 | 410 283 | 9212 | 406 702 | |
| " | 0540 | 400 284 | 10539 | 399744 | |
| " | 0331 | 388492 | 11 123 | 388 161 | |
| " | 1739 | 381 080 | 9 151 | 379341 | |
| P. I. 3 A | 0929 | 373 890 | 8 119 | 372 961 | ✓ 10 FT ± E. OF ℄ PROD 5 FT ± S OF PAVT P. I. 3 A NARCISSA DR & GINGERWOOD LA C.E MON. |
| T. P | 0342 | 363352 | 10 880 | 363 010 | |
| " | 0429 | 352912 | 10 869 | 352 483 | |
| " | 0770 | 342651 | 11 031 | 341 881 | |
| P. I. 1A | 2618 | 336 248 | 9 021 | 333 630 | ✓ P.I. 1A NARCISSA DR. & FIGTREE RD. W. S. D. |
| T.P. | 0971 | 325427 | 11 792 | 324456 | BT. SPK. W. & T. N. EDGE DRWY TO HO # 31 |

Profile Notes Red ____ Plotted ____ Job No. CC 21.64 Division No. 11
No. ____ Date ____ Date ____ Survey of POST, BUTLER, FINK & CONNELLY
X-Sec. Notes Chk'd. RCG Date ____ Survey by PFBF Notes SURVEY Date 3-5-71
No. ____ Date ____ Checked 3-71 Map No. ____ Indexed C.L. GALLI Date MAR 2 71

F. B. 2483 Pg. 89

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F. B. 2483 Pg. 90 Job No. 0021.64 Division No. 11 Notes Red ____ Plotted ____ Profile
Survey of PORTUGUESE BEND LANDSLIDE Date ____ No. ____
Survey by DREIER Notes SIEMANN 2-5-71 Notes Chk'd. RCG Checked 3-71 X-Sec.
Indexed C. L. GATES Date ____ Date ____ No.

| STATION | B. S. | H. I. 325 427 | F. S. | ELEV. | LINE | "C" |
|---|---|---|---|---|---|---|
| T.P. | 0779 | 31 4 875 | 11331 | 314 096 | | |
| " | 0489 | 303 903 | 11461 | 308 414 | | |
| " | 0676 | 294 082 | 10497 | 293 406 | | |
| " | 2990 | 286 289 | 10783 | 283 299 | | |
| " | 7 281 | 292 436 | 1 134 | 285 155 | | |
| S.P.H. H-7A ECC 4 | 4070 | 292 227 | 4279 | 288 157 | ✓ S.P.H H-7A ECC. 4 | |
| S.P.H. H-7A ECC. 2 | | | 4042 | 288 185 | " " ECC. 2 | TOP OF KNOLL |
| ECC. 1 | | | 4165 | 288 062 | ECC. 1 | S. OF FIG TREE RD. |
| S.P.H H-7A | 1222 | 289 598 | 3851 | 288 376 | ✓ S.P.H. H-7A | |
| T.P | 8501 | 289 258 | 8841 | 280 757 | | |
| " | 11912 | 300 809 | 0361 | 288 897 | | |
| " | 11930 | 312 548 | 0191 | 300 618 | | |
| " | 11622 | 323 937 | 0233 | 312 315 | | |
| " | 11830 | 335 340 | 0427 | 323 570 | | |
| " | 1 827 | 336 844 | 0323 | 335 017 | | |
| " | 0771 | 327 135 | 10480 | 326 364 | | |
| " | 0518 | 316 714 | 10939 | 316 196 | | |
| " | 0600 | 307 704 | 9610 | 307 104 | | |
| " | 0791 | 297 733 | 10762 | 296 942 | | |
| " | 0610 | 287 213 | 11130 | 286 603 | | |
| P.B. 10 | 0843 | 280 411 | 7645 | 279 568 | ✓ P.B. 10 | C.E. MON |

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| STATION | B. S. | H. I. ~~280 441~~ | F. S. | ELEV. | LINE | "C" |
|---|---|---|---|---|---|---|
| T.P. | 1069 | 271 719 | 9 761 | 270 650 | | |
| " | 0582 | 260 146 | 11355 | 260 364 | | |
| " | 0652 | 250 416 | 11 182 | 249 764 | | |
| " | 0242 | 240 306 | 9852 | 240 564 | | |
| " | 0417 | 230 904 | 10319 | 230 487 | | |
| " | 0374 | 219 775 | 11 503 | 219 401 | | |
| " | 4591 | 216 439 | 7 927 | 211 848 | | |
| " | 3116 | 215 983 | 3 572 | 212 867 | | |
| W.F 1 | 7 932 | 218 366 | 5549 | 210 434 | ✓W.F 1 SQ. SPK. IN BOTTOM STEP N.W. COR OF WALK NEAR PARKING AREA | |
| T.P. | 5 172 | 217 458 | 6080 | 212 286 | | |
| WAYFARER | 0479 | 213 797 | 4140 | 213 318 | ✓WAYFARER LGT. AT CHAPEL ENTRANCE | |
| T.P. | 0325 | 202 402 | 11 720 | 202 077 | | |
| " | 0467 | 191 139 | 11 730 | 190 672 | | |
| " | 0183 | 179 913 | 11 409 | 179 730 | | |
| " | 1320 | 169 745 | 11 488 | 168 425 | | |
| T.B.M #31 | 2 993 | 170 577 | 2.661 | 167 084 | T.B.M #31 L.F.T IN CENTER DIVIDER NEAR ENRANCE TO WAYFARER CHAPEL | |
| T.P. | 4930 | 168 283 | 6 724 | 163 353 | | |
| P-2 | 3971 | 167 304 | 4950 | 163 333 | ✓P-2 P.V. DR.S. NEAR WAYFARER CHAPEL L.C.E TAG IN CURB OF CENTER DIVIDER | |
| T.P. | 3559 | 164 685 | 6178 | 161 126 | | |
| P-3 | 4169 | 162 174 | 6680 | 158 005 | ✓P-3 P.V. DR.S. NEAR ENTRANCE TO ABALONE SHORE CLUB. L.C.E. TAG IN CURB OF CENTER DIVIDER | |
| T.P. | 9187 | 170 660 | 0701 | 161 473 | | |

Profile Notes Red ____ Plotted ____ Job No. CC 21 64 Division No. 11
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND ROAD
X-Sec. Notes Chk'd. RCR Checked 3-11 Survey by: ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed C.J. GALLI Date MR 27

F.B. 2483 Pg. 91

76-L-298 CE 307 5-66

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "C" |
|---|---|---|---|---|---|
| | | ~~170 660~~ | | | |
| B.M. 34-18 | | | 2 143 | 168 517 | B.M. 34-18 ELEV 168.560 1970 PRECISE P.V. DR. S. & NARCISSA DR. N.E. COR. SEE F.B. 1355-22 |
| | | | | | END OF LINE "C" |
| | | | | | PER PAGE 91 |
| T.B.M. 31 | 5 478 | 172 562 | | [illegible] 084 | T.B.M. 31 [illegible] IN [illegible] DIVIDER OF |
| T.P | 7307 | 179 637 | 0 232 | 172 330 | P.V. DR. S. & ENTRANCE TO WAYFARER CHAPEL |
| B.M. 34-19A | | | 6990 | 172 647 | B.M. 34-19A ELEV 172.679, 1970 PRECISE P.V. DR. S., 735 FT. W. OF WAYFARER ENTRANCE F.B. 1355-50B |

F.B. 2483 PG. 92

Job No. 0021.64 Division No. 11 Notes Red ____ Plotted ____ Profile ____

Survey of PORTUGUESE BEND LANDSLIDE Date ____ Date ____ No. ____

Survey by DREIER Notes SIEMANN 2-8-71 Notes Chk'd. RCB Checked 3-71 X-Sec. ____

Indexed C. J. GALLI Date ____ Date ____ Date ____ No. ____

F. B. 2483 PG. 93

| | | | | | |
|---|---|---|---|---|---|
| Profile No. | Notes Red | Plotted | Job No. 0021.64 | Division No. 11 | |
| | Date | Date | Survey of Portuguese Bend Landslide | | |
| X-Sec. No. | Notes Chk'd. | Checked | Survey by Dreier | Notes J.M.M. | Date 2-8-71 |
| | Date | Date | Map No. | Indexed C. J. GALLI | Date MAR 2 71 |

JOB NO. 0021.64

PORTUGUESE BEND LANDSLIDE

LEVEL LINE "D"

FEB. 1971

DREIER
MALDONADO
SIEMANN
McKNIGHT

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| | | | | |

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| STATION | B. S. | H. I. | F. S. | ELEV. | Line "D" |
|---|---|---|---|---|---|
| BM 34-14A | 3190 | 234450 | | 231260 | BM 34-14 A ELEV. 231,260, 1970 PRECISE. |
| T.P | 2880 | 230995 | 6335 | 228115 | |
| T.P. | 1350 | 225410 | 6935 | 224060 | |
| T.P. | 0937 | 217987 | 8360 | 217050 | |
| T.P | 3550 | 212615 | 8922 | 209065 | |
| BM 50-13 | 7863 | 216028 | 4450 | 208165 | BM 50-13 1965 adj. Elev. 208.086 per F.B. 2400-[illegible] |
| T.P | 11841 | 227102 | 0767 | 215261 | |
| T.P. | 11840 | 235308 | 3634 | 223468 | |
| T.P. | 11752 | 246382 | 0677 | 234630 | |
| T.P. | 12000 | 257662 | 0720 | 245662 | |
| T.P | 11827 | 269240 | 0249 | 257413 | |
| T.P. | 11831 | 280809 | 0262 | 268978 | |
| T.P. | 10699 | 290528 | 0980 | 279829 | |
| T.P | 11611 | 301622 | 0517 | 290011 | |
| T.P. | 11119 | 312501 | 0340 | 301382 | |
| T.P. | 6403 | 315084 | 3820 | 308681 | |
| Shields | 4662 | 315025 | 4721 | 310363 | Shields S.E. Mon. |
| T.P | 5649 | 314326 | 6348 | 308677 | |
| T.P | 0320 | 302998 | 11648 | 302678 | |
| T.P | 0277 | 292146 | 11129 | 291869 | |
| T.P | 0858 | 285193 | 7611 | 284335 | |

F.B. 2483 Pg. 94

Job No. 0021.64 Division No. 11 Notes Red ____ Plotted ____ Profile ____

Survey of Portuguese Bend Landslide Date ____ Date ____ No. ____

Survey by Dreier Notes Maldonado 2-8-71 Notes Chk'd. RCB Checked 3-71 X-Sec. ____

Indexed G.J. GALLO Date ____ Date ____ Date ____ No. ____

76-L-298 CE 307 5-66

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| STATION | B. S. | 285193 H. I. | F. S. | ELEV. | LINE D |
|---|---|---|---|---|---|
| T.P. | 0288 | 274043 | 11438 | 273755 | Cont. |
| T.P. | 0360 | 263608 | 10745 | 263248 | |
| T.P. | 0461 | 252771 | 11298 | 252310 | |
| T.P. | 0202 | 241083 | 11890 | 240881 | |
| T.P. | 0310 | 229552 | 11841 | 229242 | |
| T.P. | 0288 | 218557 | 11283 | 218269 | |
| T.P. | 0633 | 207480 | 11710 | 206847 | |
| T.P. | 3159 | 201736 | 8903 | 198577 | |
| J-5 | 8198 | 203420 | 6514 | 195222 | ✓ J-5 Mon. |
| T.P. | 7562 | 210505 | 0477 | 202943 | |
| Rad. 2 Ecc. 2 | 5902 | 211687 | 4720 | 205785 | ✓ Radial 2 Ecc. 2 Mon. |
| T.P. | 1358 | 207785 | 5260 | 206427 | (Note: J-4 Mon. Fd. on Horizontal [illegible] |
| | 3589 | 200884 | 10490 | 197295 | ✓ |
| J-3 | 6081 | 200847 | 6086 | 194798 | J-3 Mon. |
| T.P. | 0382 | 194668 | 6561 | 194286 | ✓ |
| J-1 | 7801 | 191649 | 10820 | 183848 | J-1 3/4" I.P. |
| T.P. | 11645 | 200009 | 3285 | 188364 | |
| T.P. | 11671 | 211161 | 0519 | 199490 | |
| T.P. | 11592 | 222523 | 0230 | 210931 | |
| T.P. | 5560 | 227263 | 0820 | 221703 | ✓ |
| J-1A | 11065 | 228976 | 9352 | 217911 | J-1A C.E. Mon |

Profile Notes Red ____ Plotted ____ Job No. 0021.64 Division No. ____
No. ____ Date ____ Date ____ Survey of Portuguese Bend Landslide
X-Sec. Notes Chk'd. RCB Checked 3-71 Survey by Dreier Notes J.M.M. Date 2-8-71
No. ____ Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date [illegible] 2 [illegible]

F.B. 2483 Pg. 95

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "D" |
|---|---|---|---|---|---|
| | | 228 976 | | | Cont |
| T.P. | 10672 | 239111 | 0537 | 228 459 | |
| T.P. | 11749 | 250446 | 0414 | 238 697 | |
| T.P. | 11982 | 261 678 | 0750 | 249 696 | |
| T.P. | 10417 | 271 675 | 0420 | 261 258 | |
| T.P. | 11970 | 283 097 | 0519 | 271127 | |
| T.P. | 10309 | 292 806 | 0600 | 282497 | |
| Blakesley | 7820 | 298514 | 2112 | 290 694 | ✓ Blakesley C.E. Mon |
| T.P. | 7495 | 299 689 | 6320 | 292 194 | |
| T.P. | 1832 | 289 528 | 11993 | 287 696 | |
| T.P. | 0330 | 278 198 | 11660 | 277 868 | |
| T.P. | 0640 | 269 510 | 7328 | 268 870 | ✓ [illegible] |
| T.P. | 7109 | 271 311 | 5308 | 264202 | |
| T.P. | 6280 | 273 491 | 4100 | 267211 | |
| T.P. | 11010 | 279 506 | 4995 | 268 496 | |
| T.P. | 11136 | 290 290 | 0352 | 279 154 | |
| T.P. | 10973 | 299 889 | 1374 | 288 916 | |
| T.P. | 10194 | 309 223 | 0860 | 299 029 | |
| T.P. | 4518 | 309 317 | 4424 | 304799 | |
| P-4 | 0764 | 302 651 | 7430 | 301 887 | ✓ P-4 C.E. Mon. |
| T.P. | 0186 | 291 800 | 11037 | 291614 | |
| T.P. | 0478 | 280 581 | 11697 | 280103 | |

F. B. 2483 PG. 96

Job No. 0021.64 Division No. 11 Notes Red ____ Plotted ____ Profile ____

Survey of Portuguese Bend Landslide Date ____ Date ____ No. ____

Survey by Dreier Notes Maldonado 2-8-71 Notes Chk'd. RCB Checked 3-71 X-Sec. ____

Indexed C. J. GALLI Date ____ Date ____ No. ____

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE D |
|---|---|---|---|---|---|
| | | 280 581 | | | Cont. |
| T. P. | 0368 | 269 579 | 11 370 | 269 211 | |
| " | 0460 | 258 487 | 11 552 | 258 027 | |
| " | 0200 | 247 609 | 11 078 | 247 409 | |
| " | 0859 | 237 486 | 10982 | 236 627 | |
| " | 0471 | 225 985 | 11 972 | 225 514 | |
| " | 0518 | 214 841 | 11662 | 214 323 | |
| " | 0802 | 204 898 | 10 745 | 204096 | |
| " | 1700 | 194 718 | 11880 | 193 018 | |
| " | 0361 | 183 809 | 11 270 | 183 448 | [illegible] |
| " | 1660 | 173 795 | 11674 | 172135 | |
| BM 34-18 | | | 5190 | 168605 | ✓ B.M. 34-18 ELEV 168.560 1970 PRECISE R.V. DR. S. & VARSISSA. |
| RADIAL 2 | 5 927 | 211 712 | | 205 785 | ✓ RADIAL 2 ECC. 2 ELEV. PER PAGE 95 |
| SET J-4A | 0299 | 203 716 | 8 295 | 203 417 | ✓ J-4A (RESET 1971) FD J-4 1956 FORTE, RESET SAME MON ON E. SIDE OF CN. ABOUT 20 FT. W. OF ORIG. LOCATION. |
| | | | 8 930 | 194 786 | ✓ J-3 |

Profile Notes Red ____ Plotted ____ Job No. 202164 Division No. 11 F.B. 2483 PG. 97
No. ____ Date ____ Date ____ Survey of Portuguese Bend Lands/ide
X-Sec. Notes Chk'd. RCB Checked 3-71 Survey by Dreier Notes JMM Date 2-8-71
No. ____ Date ____ Date ____ Map No. ____ Indexed C. C. GALLI Date MAR 2 '71

F. B. 2483 PG. 99

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 0021.64 Division No. 11

X-Sec. No. ____ Notes Chk'd. ____ Date ____ Checked ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE

Survey by DREIER Notes SIEMANN Date 2-9-71

Map No. ____ Indexed C. J. GALLI Date MAR 2 71

JOB NO. 00 21:64

PORTUGUESE BEND LANDSLIDE

LINE "E" FEB. 1971

DREIER
MALDONADO
SIEMANN
MCKNIGHT

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| | | | | |

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76-L-298 CE 307 5-66

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F.B. 2483 Pg. 100 | Job No. 0021.64 | Division No. 11 | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND AND LANDSLIDE | Date | No. | X-Sec.
Survey by DREIER Notes SIEMANN 2-9-71 | Notes Chk'd. RCB | Checked 3-71
Indexed E. J. GALT | Date | Date | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE | "E" |
|---|---|---|---|---|---|---|
| B.M. 34-14A | 4211 | 235471 | | 231260 | B.M. 34-14A | P.V. DR. S. & SCHOONER DR. U.S.C.&G.S. ELEV. 231.260 1970 PRECISE |
| B.M. 34-15A | 0319 | 231351 | 4439 | 231032 | B.M. 34-15A | P.V. DR. S. & YACHT HARBOR DR BT. SPK. IN CURB. |
| T.P. | 0291 | 219981 | 11661 | 219690 | | |
| " | 1905 | 212807 | 9079 | 210902 | | |
| " | 0269 | 204131 | 8945 | 203862 | | |
| " | 0731 | 193490 | 11372 | 192759 | | |
| " | 0742 | 183241 | 10991 | 182499 | | |
| K-10A | 4612 | 177370 | 10483 | 172758 | K-10A BT. SPK W. & T. | |
| K-10B | 5485 | ~~175075~~ 175775 | 7080 | ~~169590~~ 170290 | K-10B 2" I.P. & BT SPK. | 60.7 FT FROM K-10A. 41.7 FT FROM P.R.# 1083584 E. |
| K-10C | 6669 | ~~174833~~ 175533 | 6911 | ~~168164~~ 168864 | K-10C L. & T. | |
| BT. SPK. | 2308 | ~~170440~~ 171140 | 6701 | ~~168132~~ 168832 | BT. SPK. ABOVE K-10 | |
| | | | | -0930 | DEEP | |
| K-10 | | | | 167902 | K-10 MON. | |
| K-9A | 5802 | ~~169332~~ 170032 | 6910 | ~~163530~~ 164230 | K-9A BT. SPK W. & T. | |
| T.P. | 3451 | ~~167310~~ 168010 | 5473 | ~~163859~~ 164559 | | |
| K-9B | 5467 | ~~167256~~ 167956 | 5521 | ~~161789~~ 162489 | K-9B BT. SPK. IN 2" I.P. | |
| T.P. | 5313 | ~~169380~~ 170080 | 3189 | ~~164067~~ 164767 | | |
| " | 4283 | ~~168289~~ 168989 | 5374 | ~~164006~~ 164706 | | |
| K-9 | 3384 | ~~162901~~ 163601 | 8872 | ~~159417~~ 160117 | K-9 3/4" I.P. & TAG | |
| K-8A | 3037 | ~~160987~~ 161687 | 4851 | ~~157950~~ 158650 | K-8A BT. SPK. W. & T. | |
| K-8B | 1699 | ~~157469~~ 158169 | 5417 | ~~155579~~ 156279 | K-8B 2" I.P. & BT. SPK. | |

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| STATION | B. S. | H. I. 158.169 | F. S. | ELEV. | LINE E |
|---|---|---|---|---|---|
| T.P. | 0650 | 146 202 ~~146 902~~ | 11 917 | 145 552 ~~146 252~~ | |
| " | 0509 | 135 268 ~~135 968~~ | 11 443 | 134 759 ~~135 459~~ | |
| " | 0419 | 123 974 ~~124 674~~ | 11 713 | 123 555 ~~124 255~~ | |
| " | 1223 | 116 094 ~~116 794~~ | 9103 | 114 871 ~~115 571~~ | |
| W-3 | 5359 | 114 590 ~~115 290~~ | 6863 | 109 231 ~~109 931~~ | W-3 MON. (UNDER STEPPING STONE) |
| T.P. | 11 602 | 124 818 ~~125 518~~ | 1374 | 113 216 ~~113 916~~ | |
| " | 11 490 | 136 067 ~~136 764~~ | 0244 | 124 574 ~~125 274~~ | |
| " | 7 640 | 141 732 ~~142 432~~ | 1972 | 134 692 ~~134 792~~ | |
| K-5 | 0769 | 136 761 ~~137 461~~ | 5740 | 135 992 ~~136 692~~ | K-5 C.E. MON. |
| T.P. | 0225 | 125 616 ~~126 316~~ | 11 370 | 125 391 ~~126 091~~ | |
| " | 0210 | 114 275 ~~114 975~~ | 11 551 | 114 065 ~~114 765~~ | |
| " | 3932 | 108 199 ~~108 899~~ | 10 008 | 104 267 ~~104 967~~ | |
| K-5 AUX | 0356 | 102 061 | 6494 | 101 705 | K-5 AUX |
| | 0473 | 91 243 | 11 291 | 90 770 | |
| | 0777 | 80 026 | 11 994 | 79 249 | |
| | 0694 | 69 078 | 11 642 | 68 384 | |
| | 0900 | 59 109 | 10 869 | 58 249 | |
| | 4000 | 53 867 | 9 242 | 49 867 | |
| | 3968 | 49 686 | 8 149 | 45 718 | |
| T.B.M. #28 | 6051 | 52 578 | 3159 | 46 527 | T.B.M. 28 B. SPK IN ROCK |
| | 2011 | 49 025 | 5564 | 47 014 | K-3A MON. |

Profile Notes Red ____ Plotted ____ Job No. 0021.64 Division No. 11
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chk'd. RCB Checked 3-71 Survey by [illegible] Notes [illegible] Date 2-9-71
No. ____ Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date MAR 2 71

F. B. 2483 PG. 101

76-L-298 CE 307 5-66

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE E. | |
|---|---|---|---|---|---|---|
| | | 49 025 | | | CONT. | |
| | 0808 | 38 285 | 11 548 | 37 477 | | |
| | 7939 | 35 134 | 11 090 | 27 195 | | |
| | 10 770 | 44 923 | 0 981 | 34 153 | | |
| | 6 131 | 48 343 | 2 7[illegible] | 42 212 | | |
| K-2A | 1 324 | 48 250 | 1 417 | 46 926 | K-2A 2" I.P. & B. SPK. | |
| | 0 668 | 37 059 | 11 859 | 36 391 | | |
| | 6 151 | 31 410 | 11 800 | 25 259 | | |
| | 11 821 | 42 734 | 0 497 | 30 913 | | |
| | 9 689 | 52 122 | 0 301 | 42 433 | | |
| | 6430 | 53 7[illegible] | 4 783 | 47 339 | | |
| | 0 397 | 49 594 | 4 572 | 49 197 | | |
| | 0 623 | 39 156 | 11 061 | 38 533 | | |
| | 2 159 | 32 357 | 8 958 | 30 198 | | |
| | 0 229 | 20 868 | 11 718 | 20 639 | | |
| | 6 149 | 18 640 | 8 377 | 12 491 | SPK AT N.W. COR TENNIS COURTS | |
| | 4608 | 16 633 | 6 615 | 12 025 | | |
| | 4999 | 18 394 | 3 238 | 13 395 | | |
| P.B. 8 | | | 10 361 | 8 033 | P.B. 8 SPK IN TOP OF ROCK & CONC. GROIN AT E. END OF BEACH | |

F. B. 2483 PG. 102

Job No. 0021.64 Division No. 11 Notes Red ____ Plotted ____ Profile ____

Survey of PORTUGUESE BEND LANDSLIDE Date ____ Date ____ No. ____

Survey by DREIER Notes DREIER 2-10-71 Notes Chk'd. RCB Checked 3-71 X-Sec. ____

Indexed C. J. GAMBLE Date ____ Date ____ Date ____ No. ____

| | |
|---|---|
| Notes Ck'd by | Survey of PORTUGUESE BEND |
| Map No. | JN 0021.64 Tape Std °F |
| Office Work | Surveyed by DREIER |
| Checked | Notes Date AUG 1971 |
| Date | Indexed E. J. GALLI AUG 27 '71 |

F. B. 2483 PG. 103

# JOB No. 0021.64

# PORTUGUESE BEND LANDSLIDE

## ANGULAR CHECK OF "WAYFARER", AUGUST 1971

DREIER
MALDONADO
SIEMANN
McKNIGHT
MIYAHIRA

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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76F3095 CE#310 3-68

F. B. 2483 PG 104

8-12-71

| | | |
|---|---|---|
| S.P.HILLS G-6 | 59° 22' 53.34" | ANGLES PER F.B.G 1285-4,5 |
| S.P.HILLS E-8A | 31° 14 05.25" | " -6,7 |
| WAYFARER | 89° 22' 57.25 | " -19,20 |
| | 179° 59' 56.84" | |

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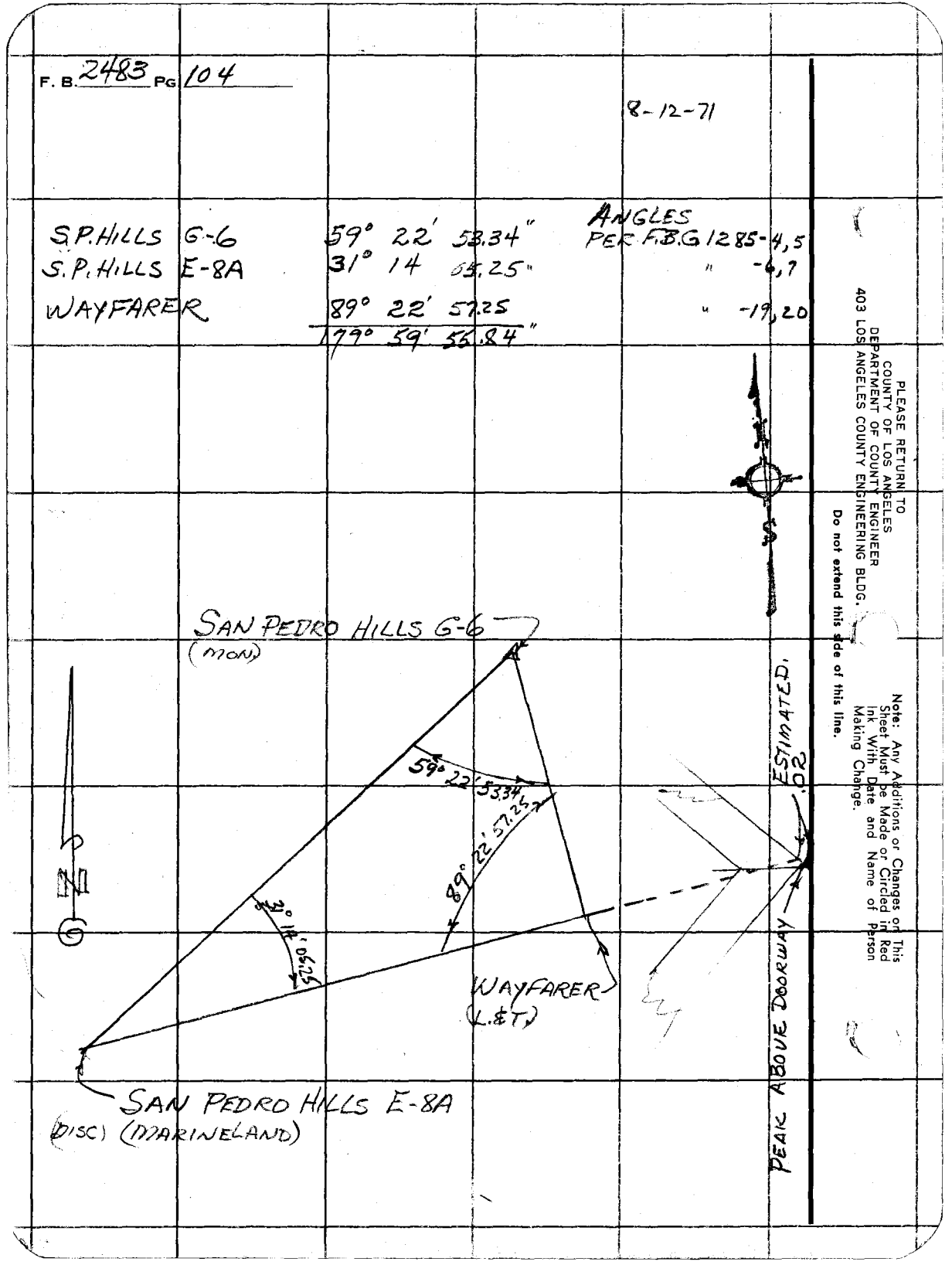

Profile No. | Notes Red | Plotted | Job No. 0021.64 | Division No. 11 | F. B. 2483 Pg. 105

X-Sec. No. | Notes Chk'd. | Checked | Survey of PORTUGUESE BEND LANDSLIDE

Date | Date | Survey by DREIER | Notes | Date

Date | Date | Map No. | Indexed C. J. GALLI | Date AUG 27 '71

# PORTUGUESE BEND LANDSLIDE
## JOB NO. 0021.64

## AUGUST, 1971, RELEVELING LINE "A"

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| | | | | |

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76-L-298 CE 307 5-66

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F. B. 2483 Pg. 106 | Job No. 602.164 | Division No. 11 | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | No.
Survey by DREIER | Notes Maldonado 8-18-71 | Notes Chk'd. | Checked | X-Sec.
Indexed E. J. GALLI | Date | Date | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "A" |
|---|---|---|---|---|---|
| B.M. 50-7 | 3130 | 1204577 | | 1201447 | B.M. 50-7 ELEV. 1201.447, 1970 PRECISE ADJ. |
| T.P. | 0501 | 1193317 | 11761 | 1192816 | CRENSHAW BLVD. & CREST RD. N.E. COR., MON. |
| | 0621 | 1183023 | 10915 | 1182402 | |
| | 0790 | 1172365 | 11448 | 1181575 | |
| | 3169 | 1165144 | 10390 | 1161975 | |
| BM C-1 | 7739 | 1168421 | 4462 | 1160682 | BM C-1 Crenshaw Blvd. & Whitley Collins Dr., N.W. Cor. ⊠ SPK. in S.E. Cor of Edison M.H. |
| | 8342 | 1174952 | 1811 | 1166610 | |
| | 8110 | 1181452 | 1610 | 1173342 | |
| | 7462 | 1186728 | 2190 | 1179262 | |
| | 5382 | 1187675 | 4431 | 1182293 | |
| BM 50-8 | 3850 | 1186082 | 5443 | 1182232 | BM 50-8 Elev. 1182.205 1970 Precise |
| | 2515 | 1179896 | 8701 | 1177383 | Crenshaw Blvd. E. of Seacrest. (Mon.) |
| | 2791 | 1174139 | 8548 | 1171348 | |
| | 0180 | 1164089 | 10230 | 1163909 | |
| | 0299 | 1153246 | 11142 | 1152947 | |
| | 0292 | 1141876 | 11662 | 1141584 | |
| | 0408 | 1130845 | 11439 | 1130437 | |
| | 0276 | 1119741 | 11380 | 1119465 | |
| | 0260 | 1108733 | 11268 | 1108473 | |
| | 1615 | 1098887 | 11461 | 1097272 | |
| B.M. C-2 | 1109 | 1092457 | 7539 | 1091348 | BM C-2 ⊠ SPK in Large Boulder on Crenshaw Blvd. |

76-L-298 CE 307 5-66

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Profile Notes Red____ Plotted____ Job No. 0021.64 Division No. 11
No.____ Date____ Date____ Survey of Portuguese Bend Landslide
X-Sec. Notes Chk'd.____ Checked____ Survey by Dreier Notes TMM Date 8-18-71
No.____ Date____ Date____ Map No.____ Indexed E. J. GALL Date AUG 27 '71

F. B. 2483 PG. 107

| STATION | B. S. | H. I. | F. S. | ELEV. | Line A Cont. | |
|---|---|---|---|---|---|---|
| BM C-2 | ~~1 109~~ | 1092 457 | | | | |
| | 0 618 | 1085 713 | 7 362 | 1085095 | | |
| | 0 328 | 1074562 | 11 479 | 1074234 | | |
| | 0 568 | 1064496 | 10 634 | 1063928 | | |
| | 0 275 | 1052879 | 11 892 | 1052604 | | |
| | 0 273 | 1041501 | 11 651 | 1041228 | | |
| | 0 551 | 1030339 | 11 713 | 1029788 | | |
| | 1 350 | 1021411 | 10 278 | 1020061 | | |
| | 0 751 | 1012032 | 10 130 | 1011281 | | |
| | 6 420 | 1008503 | 9949 | 1002083 | | |
| BM 50-9 | 6289 | 1005807 | 8985 | 999518 | BM 50-9 Elev. 999.460 1970 Precise | |
| | 0 210 | 997056 | 8961 | 996846 | Poured Mon. on W. Side Crenshaw opposite Water Tank | |
| | 0 249 | 986087 | 11 218 | 985838 | | |
| | 0 461 | 975097 | 11 451 | 974636 | | |
| | 0 231 | 963559 | 11 769 | 963328 | | |
| | 2 535 | 954394 | 11 700 | 951859 | | |
| T.B.M. 11 | 2 530 | 949923 | 7001 | 947393 | T.B.M. 11<br>BM 50-9A Elev. 947.303 1970 Precise<br>P.K. SPK. in Rock W211 | |
| | 3 620 | 942263 | 11 280 | 938643 | | |
| BM. Z-1 | 0 400 | 935667 | 6996 | 935267 | B.M. Z-1 Precast Mon. | |
| | 1 531 | 925986 | 11 212 | 924455 | | |
| | 0 818 | 916104 | 10 700 | 915286 | | |

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F. B. 2483 Pg. 108 Job No. 0021.64 Division No. 11 Notes Red Plotted Profile
Survey of Portuguese Bend Landslide Date No. X-Sec.
Survey by Dreier Notes Malahado 8-19-71 Notes Chk'd. Checked
Indexed E. J. GALLI Date Date No.

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| STATION | B. S. | H. I. | F. S. | ELEV. | Line A |
|---|---|---|---|---|---|
| | | 916104 | | | |
| | 0749 | 905101 | 11752 | 904352 | Cont. |
| | 0384 | 88818 (94) | 11467 | 893634 | |
| | 0350 | 882987 | 11381 | 882637 | |
| | 0609 | 871697 | 11899 | 871088 | |
| | 4369 | 866594 | 9472 | 862225 | |
| BM 50-10 | 4076 | 862188 | 8552 | 858042 | BM 50-10 Elev. 858.162 1970 Precise. S'ly. side of Crenshaw. Poured Mon. |
| | 0280 | 851448 | 10950 | 851168 | |
| | 0440 | 839898 | 11990 | 839458 (5) | |
| | 0401 | 828639 | 11660 | 828238 | |
| | 0384 | 817158 | 11865 | 816774 | |
| | 0357 | 807310 | 10205 | 806953 | |
| | 2672 | 799691 | 10291 | 797019 | |
| Y-4 | 7000 | 800471 | 6220 | 793471 | Y-4 Bt. SPK. in Conc. in 2" I.P. |
| | 0393 | 789824 | 11040 | 789431 | |
| | 2295 | 784589 | 7530 | 782294 (2) | |
| T.B.M. #12 | 9381 | 786452 | 7518 | 777071 | T.B.M. #12 BM 50-10A Elev. 777.183 1970 Precise |
| | 0921 | 775782 | 11591 | 774861 | |
| | 0559 | 765152 | 11189 | 764593 | |
| | 0491 | 754121 | 11522 | 753630 | |
| | 0278 | 744117 | 10282 | 743839 | |
| | 0233 | 732546 | 11804 | 732313 | |

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "A" |
|---|---|---|---|---|---|
| | | ~~732 546~~ | | | |
| T. P. | 0232 | 721498 | 11 280 | 721266 | |
| | 0707 | 711 145 | 11 060 | 710438 | |
| | 0389 | 700744 | 10 790 | 700 355 | |
| | 0694 | 690390 | 11 048 | 689 696 | |
| | 2658 | 681 408 | 11 640 | 678750 | |
| T.B.M. #13 | 0571 | 676578 | 5401 | 676 007 | T.B.M. #13 P.K. SPK. in Rockwall<br>BM 50-10B Elev. 676.097 1970 Precise |
| | 0304 | 665750 | 11 132 | 665446 | |
| | 0340 | 655329 | 10 761 | 654989 | |
| BM 50-11 | 1301 | 648849 | 7781 | 647548 | Poured Mon.<br>BM 50-11 Elev. 647.634 1970 Precise |
| T. P. | 1424 | 640089 | 10184 | 638665 | |
| | 0759 | 630 676 | 10 172 | 629917 | |
| | 0210 | 619 714 | 11 172 | 619 504 | |
| | 0216 | 607 $\overset{9}{8}$30 | 12 000 | 607 714 | |
| | 0609 | 596 $\overset{5}{4}$48 | 11 991 | 595939 | |
| | 0556 | 585563 | 11 541 | 585007 | |
| | 0460 | 574243 | 11 780 | 573783 | |
| | 0720 | 56 $\overset{3}{4}$ 022 | 11 941 | 56 $\overset{2}{3}$ 302 | |
| | 0706 | 551 720 | 12 008 | 551 014 | |
| | 0200 | 540 663 | 11 257 | 540463 | |
| | 0299 | 529 $\overset{6}{5}$80 | 11 282 | 529381 | |
| | 0511 | 518 880 | 11 311 | 518369 | |

Profile Notes Rel. Plotted Job No. 0021.64 Division No.
No. Date Date Survey of Portuguese Bend Landslide
X-Sec. Notes Chk'd. Checked Survey by Dreier Notes TMM. Date 8-19-71
No. Date Date Map No. Indexed C. J. GALLI Date AUG 27 '71

F. B. 2483 PG. 109

76-L-298 CE 307 5-66

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A | |
|---|---|---|---|---|---|---|
| | | ~~518 880~~ | | | | |
| T. P | 0660 | 507 610 | 11 930 | 506 850 | | |
| | 0 300 | 496 200 | 11 710 | 495900 | | |
| | 0835 | 486 865 | 10 170 | 486 030 | | |
| | 3 101 | 479 661 | 10 305 | 476 560 | | |
| Tank | 1 312 | 476522 | 4 451 | 475210 | Tank Bt. SPK. W. & T. | (Near Water tank) |
| | 0301 | 465371 | 11452 | 465070 | | |
| | 0570 | 454409 | 11532 | 453839 | | |
| | 0448 | 443608 | 11249 | 443160 | | |
| | 0262 | 433450 | 10420 | 433188 | | |
| | 0 400 | 422229 | 11 621 | 421829 | | |
| | 1 490 | 412160 | 11559 | 410670 | | |
| | 0 462 | 401399 | 11 223 | 400937 | | |
| | 1909 | 392806 | 10502 | 390897 | | |
| S.B. 1 | 4878 | 391 642 | 6042 | 386764 | S.B. 1 SPK. W. & T. | |
| S.B. 2 | 9430 | 392 680 | 8392 | 383 250 | SB 2 Bt. SPK. W. & T. | 5" DEEP |
| | 8315 | 396713 | 4282 | 388 398 | | |
| | 6 320 | 399193 | 3840 | 392873 | | |
| P.T. 1 | 1361 | 394429 | 6125 | 393 068 | P.T. 1 Bt. SPK. W. & T. | |
| B I B | 6 762 | 391 662 | 9529 | 384900 | B I B 2" I.P. & Tag | |
| | 1 836 | 392 456 | 1 042 | 390620 | | |
| | | | 11 589 | 380867 | | |

F. B. 2483 PG. 110

Job No. 0021.64 Division No. 11 Notes Red ____ Plotted ____ Profile ____

Survey of Portuguese Bend Landslide Date ____ Date ____ No. ____

Survey by Dreier Notes Maldonado 8-19-71 Notes Chk'd. ____ Checked ____ X-Sec. ____

Indexed C. J. GALLI Date ____ Date ____ Date ____ No. ____

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A | |
|---|---|---|---|---|---|---|
| | 0 721 | 381 588 | | 380 867 | | CONT. |
| | 1 152 | 371023 | 11 717 | 369871 | | |
| | 0 412 | 361266 | 10169 | 360854 | | |
| | 0 822 | 350531 | 11 557 | 349 709 | | |
| | 0 818 | 340572 | 10 777 | 339 754 | | |
| | 6 746 | 340 317 | 7 001 | 333 571 | | |
| | 9080 | 347256 | 2 141 | 338 176 | | |
| D-2 | 7 769 | 353600 | 1425 | 345831 | D-2 (MON.) | 10.5 S. OF STEEL CASING |
| | 11 563 | 362492 | 2 671 | 350 929 | | |
| | 11 200 | 373 413 | 0279 | 362 213 | | |
| DAVIS | 2935 | 373 300 | 3 048 | 370365 | DAVIS (MON) | |
| | 0280 | 363 800 | 9 780 | 363 520 | | |
| | 0 227 | 352 564 | 11 463 | 352 337 | | |
| | 9 368 | 351 730 | 10 202 | 342 362 | | |
| | 9 331 | 355 874 | 5 187 | 346 543 | | |
| RADIAL 1 | 5 445 | 352 775 | 8 544 | 347 330 | RADIAL 1 MON. | |
| | 0 468 | 341 765 | 11 478 | 341 297 | | |
| | 0 449 | 330 484 | 11 730 | 330 035 | | |
| | 0 306 | 319 038 | 11 752 | 318 732 | | |
| A 3A | 11 418 | 320 456 | 10 000 | 309 038 | A3A | 2" I.P. & BUTTON CAP |
| | | | 0437 | 320 019 | | |

CONT.

Profile Notes Red ____ Plotted ____ Job No. 032,64 Division No. 11 F. B. 2483 PG. 111
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chk'd. ____ Checked ____ Survey by DREIER Notes DREIER Date 8-20-71
No. ____ Date ____ Date ____ Map No. ____ Indexed E. J. GALLI Date AUG 27 71

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F. B. 2483 Pg. 112 | Job No. 002164 | Division No. 11 | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | Date | No.
Survey by DREIER | Notes DREIER | Notes Chk'd. | Checked | X-Sec.
Indexed E. J. GALLI | Date | Date | Date | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A | |
|---|---|---|---|---|---|---|
| T.P. | 11 489 | 331508 | | 320 019 | CONT. | |
| A 4 | 9 255 | 331 476 | 9 287 | 322 221 | A 4 (MON.) | |
| | 11 850 | 340 654 | 2 672 | 328 804 | | 11453 |
| | 10 102 | 350 481 | 0 275 | 340379 | | |
| | 5 894 | 351 836 | 4 539 | 345 942 | | |
| | 0 290 | 340 940 | 11 186 | 340 650 | | - 6.001 D 2 |
| | 1 400 | 330 830 | 11 510 | 329 430 | | 340835 D-2 |
| | 6 135 | 329 989 | 6976 | 323 854 | | |
| B.M. 50-12 | 10 486 | 339 491 | 0 984 | 329 005 | B.M. 50-12 (MON) | |
| | 0 409 | 331 045 | 8 855 | 330636 | | |
| | 1 645 | ~~344 629~~ 320 751 | 11 939 | ~~342 984~~ 319106 | | |
| | 0 791 | 310 841 | 10 701 | ~~333 928~~ 310 050 | | |
| | 0 553 | 299 986 | 11 408 | 299 433 | | |
| | 0 231 | 288 593 | 11 624 | 288362 | | |
| | 0 537 | 277 231 | 11 899 | 276694 | | |
| | 0 419 | 266 385 | 11 265 | 265 966 | | |
| | 0 425 | 255 748 | 11 062 | 255323 | | |
| | 0 189 | 244 185 | 11 752 | 243 996 | | |
| | 0 460 | 233370 | 11 275 | 232 910 | | |
| | 0 615 | 222237 | 11 748 | 221 622 | | |
| | | | 11 931 | 210 306 | | |

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A | |
|---|---|---|---|---|---|---|
| | 0178 | 210 484 | | 210 306 | | CONT. |
| | 0 339 | 199 521 | 11 302 | 199 182 | | |
| | 0 841 | 189 042 | 11 320 | 188 201 | | |
| | 1 450 | 178 924 | 11 568 | 177 474 | | |
| | 10040 | 188 537 | 0 427 | 178 497 | | |
| | 9 930 | 197 748 | 0 719 | 187 818 | | |
| | 1 662 | 199 166 | 0 244 | 197 504 | | |
| | 8 289 | 206 898 | 0 557 | 198609 | | |
| | 6 842 | 210 060 | 3 680 | 203 218 | | |
| B.M. 50-13 | 4 580 | 212 739 | 1 901 | 208 159 | B.M. 50-13 | MON |
| | 5 635 | 215 774 | 2 600 | 210 139 | | |
| B.M. 50-13A | 11 250 | 221 574 | 5 450 | 210 324 | B.M. 50-13A | SPK |
| | 11 578 | 232 234 | 9 918 | 220 656 | | |
| | 9 768 | 241 527 | 0 475 | 231 759 | | |
| K-6 | 5066 | 241 472 | 5121 | 236 406 | K-6 | MON. |
| | 0 910 | 232 671 | 9 711 | 231 761 | | |
| | 1 150 | 222 616 | 11 205 | 221 466 | | |
| | 5 570 | 217 008 | 11 178 | 211 438 | | |
| | 8 108 | 222 381 | 2 735 | 214273 | | |
| | 7 815 | 227 856 | 2 340 | 220041 | | |
| | | | 3 788 | 224068 | | |

Profile Notes Red ____ Plotted ____ Job No. 0021.64 Division No. 11 F. B. 2483 PG. 113
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chk'd. ____ Checked ____ Survey by DREIER Notes DREIER Date 8-20-71
No. ____ Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date AUG 27 71

76-L-298 CE 307 5-66

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F. B. 2483 Pg. 114 | Job No. 902.164 Division No. 11 | Notes Red ____ Date ____ | Plotted ____ Date ____ | Profile No. ____ | X-Sec. No. ____
Survey of PORTUGUESE BEND LANDSLIDE | Notes Chk'd. ____ Date ____ | Checked ____ Date ____
Survey by DREIER Notes DREIER 8-20-71
Indexed E. J. GALLI Date ____

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "A" |
|---|---|---|---|---|---|
| T. P. | 6 885 | 230 953 | | 224 068 | CONT. |
| | 5270 | 232 222 | 4001 | 226952 | |
| | 6730 | 234 832 | 4110 | 228112 | |
| BM. 34-14A | | | 3601 | 231231 | BM. 34-14A (U.S.C.&G.S T 1053) ELEV. 231.260 1970 PRECISE ADJ. |
| | | | | | P.V. DR. S. & SCHOONER DR., N.W. COR. |
| | | | | | DISC IN CATCH BASIN |
| | RECHECK - "TANK" TO S.B. #2 | | | | |
| TANK | 1809 | 477 019 | | 475210 | PER PAGE 110 |
| | 0 379 | 465 832 | 11 566 | 465 453 | |
| | 0 441 | 455 872 | 10 401 | 455 431 | |
| | 0 601 | 444 855 | 11 618 | 444 254 | |
| | 0 969 | 435 163 | 10 661 | 434 194 | |
| | 0 231 | 424 634 | 10 760 | 424403 | |
| | 3939 | 420 882 | 7691 | 416 943 | |
| P.B. 9A | 4 460 | 418 602 | 6740 | 414142 | P.B. 9A SPK. W. |
| | 0 382 | 407 736 | 11 248 | 407354 | |
| | 0 495 | 397 782 | 10 449 | 397287 | |
| L. & T. | 1049 | 388 292 | 10 539 | 387 243 | |
| | 7539 | 386 791 | 9040 | 379 252 | L. & T. IN DRWY |
| S.B. #2 | | | 3550 | 383241 | S.B. #2 SPK. & W. |

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 0021.64 Division No. ____ F. B. 2483 PG. 115

X-Sec. No. ____ Notes Chk'd. ____ Date ____ Checked ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE Survey by DREIER Notes ____ Date ____ Map No. ____ Indexed C. J. GALLI Date MAR 27 '72

# PORTUGUESE BEND LANDSLIDE
## JOB No. 0021.64
## AUGUST 1971 RELEVELING LINE "B"

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| | | | | |

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76-L-298 CE 307 5-66

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F. B. 2483 Pg. 116 | Job No. 0021.64 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of PORTUGUESE BEND LANDSLIDE Date ____ Date ____ No. ____
Survey by DREIER Notes DREIER 8-23-71 Notes Chk'd. ____ Checked ____ X-Sec. ____
Indexed E. J. GALLI Date ____ Date ____ No. ____

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "B" | |
|---|---|---|---|---|---|---|
| S.B.D. 2 | 2658 | 385 908 | | 383 250 | S.B.D. 2 ELEV = 383.250 | PER PAGE 116 |
| T.P. | 1702 | 380 966 | 6644 | 379 264 | L & T. IN DRWY | |
| | 0208 | 372 528 | 8646 | 372 320 | | |
| | 0917 | 362 180 | 11265 | 361 263 | | |
| S.B. # 3 | 9075 | 361 955 | 9300 | 352 880 | SB # 3 SPK. W & T. | |
| T.P. | 8948 | 369 264 | 1639 | 360 316 | | |
| | 7559 | 376 000 | 0823 | 368 441 | | |
| | 11716 | 386 165 | 1551 | 374 449 | | |
| | 10348 | 395 955 | 0558 | 385 607 | | |
| WEST FIX | 2108 | 395 908 | 2155 | 393 800 | WEST FIX (MON.) | |
| T.P. | 0380 | 384 846 | 11442 | 384 466 | | |
| | 0403 | 373 873 | 11376 | 373 470 | | |
| | 2092 | 364 323 | 11642 | 362 231 | | |
| | 0252 | 359 471 | 5104 | 359 219 | | |
| | 0283 | 348 001 | 11753 | 347 718 | | |
| | 0769 | 336 958 | 11812 | 336 189 | | |
| | 0430 | 325 725 | 11663 | 325 295 | | |
| H-2 | 1355 | 318 091 | 8989 | 316 736 | H-2 | |
| | 1218 | 311 705 | 7604 | 310 487 | | |
| | 3848 | 306 198 | 9355 | 302 350 | | |
| H-4 | | | 4425 | 301 773 | H-4 | |

76-L-298 CE 307 5-66

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE B | | |
|---|---|---|---|---|---|---|---|
| H-4 | 4 301 | 306 074 | | 301 773 | H-4 | CONT | |
| | 0 404 | 299 030 | 7 448 | 298 626 | | | |
| | 1 284 | 291 546 | 8 768 | 290 262 | | | |
| | 11 649 | 300 009 | 3 186 | 288 360 | | | |
| | 11 535 | 311 075 | 0 469 | 299 540 | | | |
| | 8 581 | 318 658 | 0 998 | 310 077 | | | |
| | 7 847 | 326 181 | 0 334 | 318 324 | | | |
| | 6 313 | 331 942 | 0 542 | 325 629 | | | |
| P.T.5 | 1 313 | 330 268 | 2 987 | 328 955 | P.T.5 | SPK. W. & T. PEPPERTREE & LIMETREE | |
| | 0 372 | 320 618 | 10 022 | 320 246 | | | |
| | 0 853 | 309 983 | 11 488 | 309 130 | | | |
| Rck PT 6C | 5 383 | 304 408 | 5 958 | 304 025 | P.T. 6C | 2" I.P | PEPPERTREE DR & KUMQUAT LN |
| | 0 252 | 294 752 | 9 908 | 294 500 | | | |
| | 0 422 | 283 666 | 11 508 | 283 244 | | | |
| | 2 067 | 274 315 | 11 418 | 272 248 | | | |
| | 1 602 | 266 540 | 9 377 | 264 938 | | | |
| | 0 322 | 255 175 | 11 687 | 254 853 | | | |
| | 0 664 | 244 232 | 11 607 | 243 568 | | | |
| | 0 298 | 232 617 | 11 913 | 232 319 | | | |
| | 0 670 | 221 605 | 11 682 | 220 935 | | | |
| | | | 9 279 | 212 326 | | | |

Profile Notes Red ____ Plotted ____ Job No. 0021.64 Division No. 11
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chk'd. ____ Checked ____ Survey by FREIER Notes FREIER Date 8-23-71
No. ____ Date ____ Date ____ Map No. ____ Indexed E. J. GALL Date AUG 27 71

F. B. 2483 PG. 117

76-L-298 CE 307 5-66

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F. B. 2483 Pg. 118 | Job No. 002.16K | Division No. 11 | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | Date | No.
Survey by DREIER | Notes DREIER | Notes Chk'd. | Checked | X-Sec.
Indexed C. J. GALLI | Date | Date | Date | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "B" CONT | |
|---|---|---|---|---|---|---|
| T.P | 4 149 | 216 475 | | 212 326 | | |
| " | 1 889 | 206 971 | 11 ~~462~~ 393 | 205 082 | | |
| B.M. "C" | 1 342 | 201 837 | 6 476 | 200495 | B.M. "C" RD. DEPT. | DISC (CTR. DRWY TO VILLA) |
| T.P | 3355 | 195079 | 10 113 | 191724 | | |
| U.S.C.&G.S X-977 | 11 211 | 1 ~~89~~ 863 | 6 427 | 188 652 | U.S.C.&G.S. X-977 | |
| T.P. | 11 651 | 211 305 | 0209 | 199654 | | |
| K-1 | 1 436 | 211 252 | 1 489 | 209816 | K-1 MON. | |
| T.P | 0369 | 200 021 | 11 600 | 199 652 | | |
| " | 3 338 | 192 678 | 10 681 | 189 340 | | |
| " | 2 538 | 189 423 | 5 793 | 186 885 | | |
| " | 2 682 | 190 824 | 1 281 | 188142 | | |
| " | 1 249 | 181 385 | 10688 | 180 136 | | |
| " | 2 569 | 174 271 | 9 683 | 171 702 | | |
| B.M. 34-18 | | | 5 708 | 168 563 | B.M. 34-18, ELEV. 168.560, 1970 PRECISE ADJ. P.V.D.R.S. & NARCISSA DR. | |

F. B. 2483 PG. 19

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 0021.64 Division No. 11 Survey of PORTUGUESE BEND LANDSLIDE

X-Sec. No. ____ Notes Chk'd. ____ Date ____ Checked ____ Date ____ Survey by ____ Map No. ____ Notes C. J. GALLI Indexed ____ Date AUG 27 '71

# PORTUGUESE BEND LANDSLIDE
## JOB NO. 0021.64

AUGUST 1971 RELEVELING, LINE "C"

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| | | | | |

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F. B. 2483 PG. 120 | Job No. 8021.64 | Division No. 11 | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | Date | No.
Survey by DREIER | Notes DREIER 8-23-71 | Notes Chk'd. | Checked | X-Sec.
Indexed C. J. GALLI | Date | Date | Date | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "C" | |
|---|---|---|---|---|---|---|
| B.M. "TANK" | 1 809 | 477 019 | | 475210 | "TANK", ELEV. = 475.210 | PER PAGE 110 |
| | 0379 | 465 832 | 11 566 | 465 453 | | |
| | 0441 | 455 872 | 10 401 | 455 431 | | |
| | 0601 | 444 855 | 11 618 | 444 254 | | |
| | 0969 | 435 163 | 10 661 | 434 194 | | |
| | 0231 | 424 634 | 10 760 | 424 403 | | |
| | 3939 | 420 882 | 7 691 | 416 943 | | |
| P.B. 9A | 1730 | 415 872 | 6740 | 414 142 | P.B. 9A SPK. W. | |
| | 4303 | 413 030 | 7 145 | 408727 | | |
| | 4024 | 410.196 | 6 858 | 406 172 | | |
| | 9467 | 413 661 | 6 002 | 404194 | | |
| AC 3 | 4 068 | 415514 | 2 215 | 411 446 | AC-3 MON. | |
| | 5813 | 409682 | 11 645 | 403 869 | | |
| P.B. 9 | 4346 | 408 424 | 5 604 | 404078 | P.B. 9 MON. | |
| | 6 355 | 411 464 | 3 315 | 405 109 | | |
| | 5955 | 414 073 | 3 346 | 408 118 | | |
| P.I. 5B | 4 603 | 414 606 | 4070 | 410 003 | P.I. 5B MON. | NARCISSA DR. & SWEETBAY RD. |
| | 2656 | 414 112 | 3 150 | 411456 | | |
| | 5 872 | 409 942 | 10 042 | 404070 | | |
| T.B.M. #30 | 0 225 | 405 490 | 4 677 | 405265 | T.B.M. 30 B.SPK. | NARCISSA DR. & CINNAMON LN. |
| | | | 4915 | 400575 | | |

CONT.

76-L-298 CE 307 5-66

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "C" | |
|---|---|---|---|---|---|---|
| T.P. | 7 040 | 407 615 | | 400 575 | CONT. | |
| " | 4 827 | 409 604 | 2838 | 404 777 | | |
| P.I. 4C | 4 887 | 410 696 | 3 795 | 405 809 | P.I. 4C MON | NARCISSA DR. & PLUMTREE RD |
| | 9 275 | 417 626 | 2 345 | 408 351 | | |
| | 10 005 | 426 401 | 1 230 | 416 396 | | |
| | 10 375 | 436 410 | 0 366 | 426 035 | | |
| FRUIT TREE 1 | 11 600 | 436 008 | 12 002 | 424 408 | FRUIT TREE 1 MON, E. SIDE FRUITTREE N. OF NARCISSA | |
| | 0 310 | 426 348 | 9 970 | 426 038 | | |
| | 6 945 | 422 171 | 11 122 | 415 226 | | |
| | 6 270 | 425 321 | 3 120 | 419 051 | | |
| | 5 348 | 426 181 | 4 488 | 420 833 | | |
| R.M. NO. 1 S.P. HILLS G-7 | 4 163 | 425 696 | 4 648 | 421 533 | S.P. HILLS G-7, R.M. #1 | (70 FT. N. CTR. STA.) |
| Δ S.P.H. G-7 | 5 307 | 425 747 | 5 256 | 420 440 | S.P.H. G-7 CTR. STA. | |
| R.M. No. 2 | 3 684 | 425 461 | 3 970 | 421 777 | S.P.H. G-7, R.M. #2 | (57 FT. E. OF CTR. STA.) |
| T.P. | 2 400 | 416 154 | 11 707 | 413 754 | | |
| | 4 150 | 409 242 | 11 062 | 405 092 | | |
| | 0 410 | 398 098 | 11 554 | 397 688 | | |
| | 0 300 | 386 895 | 11 503 | 386 595 | | |
| | 1 885 | 380 997 | 7 783 | 379 112 | | (10 E. & PROD. 5 S. OF S. EDGE PAV'M) |
| P.I. 3A | 0 187 | 373 084 | 8 100 | 372 897 | P.I. 3A MON. | NARCISSA DR. & GINGER ROOT LANE |
| | | | 10 960 | 362 124 | | |

Profile Notes Red ____ Plotted ____ Division No. 11
No. ____ Date ____ Date ____ Job No. 0021.64
X-Sec. Notes Chk'd. ____ Checked ____ Survey of PORTUGUESE BEND LANDSLIDE
No. ____ Date ____ Date ____ Survey by DREIER Notes DREIER Date 8-23-71
Map No. ____ Indexed C. J. GALLI Date AUG 27 '71

F.B. 2483 PG. 121

76-L-298 CE 307 5-66

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F. B. 2483 Pg. 122 | Job No. 0021.64 Division No. 11 | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | Date | No. | X-Sec.
Survey by DREIER Notes DREIER 8-23-71 | Notes Chk'd. | Checked
Indexed E. J. GALLI | Date | Date | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "C" | | |
|---|---|---|---|---|---|---|---|
| T.P. | 0 485 | 362 609 | | 362 124 | CONT, | | |
| | 1 378 | 354 064 | 9923 | 352 686 | | | |
| | 9 650 | 345 189 | 10 525 | 343 539 | | | |
| P.I. 1A | 6266 | ~~340~~ 825 | 10 630 | 334 559 | P.I. 1A | NARCISSA & FIG TREE B.SPK W. CURB | |
| | 0 562 | 328 641 | 11 746 | 328 079 | | | |
| | 0 437 | 318 271 | 10 807 | 318 834 | | | |
| | 0 725 | 308 729 | 11 267 | 308 004 | | | |
| | 0 230 | 296 579 | 11 380 | 296 349 | | | |
| | 0 937 | 288 216 | 10 300 | 286 279 | | (FD. S.P. HILLS H-7A, 1957 DESTROYED) | |
| | 9866 | 290 539 | 6543 | 280 673 | | | |
| S.P.H. H-7A ECC. 2 | 3964 | 292085 | 2418 | 288121 | S.P.H. H-7A | ECC. 2 | MON. FIGTREE E. OF NARCISSA |
| ECC. 4 | 3957 | 292 045 | 3 997 | 288088 | S.P.H | H-7A ECC. 4 | |
| ECC. 1 | 4 085 | 292090 | 4 040 | 288 005 | S.P.H | H-7A ECC 1 | BEEN HIT LEANS N 32° N.E OF ECC 4. |
| ECC. 3 | 2363 | 290423 | 4 030 | 288 060 | S.P. | ECC. 3 | |
| T.P. | 7120 | 287796 | 9747 | 280676 | | | |
| | 9845 | 296984 | 0657 | 287139 | | | |
| | 12005 | 308757 | 0238 | 296746 | | | |
| | 11623 | 320094 | 0280 | 308471 | | | |
| | 11775 | 331564 | 0305 | 319789 | | | |
| | 9320 | 340587 | 0297 | 331267 | | | |
| | | | 7030 | 333 557 | (P.I. 1-A) | | |

76-L-298 CE 307 5-66

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "C" |
|---|---|---|---|---|---|
| P.I. ~~T.P.~~ 1A | 0526 | 334083 | | 333557 | P.I. 1-A NARCISSA & FIGTREE BT. SPK. |
| T.P. | 0252 | 322535 | 11800 | 322283 | & W. IN CURB. |
| | 1370 | 312337 | 11568 | 310967 | |
| | 0554 | 302579 | 10342 | 302025 | |
| | 0243 | 291614 | 11208 | 291371 | |
| | 1973 | 282337 | 11250 | 280364 | |
| P.B. 10 | 0333 | 279830 | 2840 | 279497 | P.B. 10 C.E. MON. |
| T.P. | 0270 | 272117 | 7983 | 271847 | |
| | 0460 | 265089 | 7488 | 264629 | |
| | 0353 | 253640 | 11802 | 253287 | |
| | 0518 | 242402 | 11756 | 241884 | |
| | 0324 | 230970 | 11756 | 230646 | |
| | 0930 | 220405 | 11495 | 219475 | |
| | 5058 | 220560 | 4903 | 215502 | |
| | 4815 | 221250 | 4125 | 216435 | |
| W.F. 1 | 7067 | 2~~21~~ 17467 | 1~~6~~ 18850 | 21~~4~~ 19400 | W.F.* 1, SQ. SPK. IN BOT. STEP N.W. COR. |
| T.P | 5697 | 217366 | 5798 | 211669 | OF WALK NEAR PARKING AREA |
| WAYFARER | 0204 | 213484 | 4086 | 213280 | "WAYFARER", L.&T. AT CHAPEL ENTRANCE |
| T.P. | 0194 | 202139 | 11539 | 201945 | |
| | 0222 | 190541 | 11820 | 190319 | |
| T.P. | | | 11688 | 178853 | |

Profile Notes Red ____ Plotted ____ Job No. 0021.64 Division No. 11 F.B. 2483 PG. 123
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chk'd. ____ Checked ____ Survey by DREIER Notes SIEMANN Date 8-24-71
No. ____ Date ____ Date ____ Map No. ____ Indexed J. GALLI Date AUG 27 '71

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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F. B. 2483 PG. 124 | Job No. 8821.64 | Division No. 11 | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND LAND SLIDE | Date 8-24-71 | Date | No. | X-Sec.
Survey by DEIER | Notes SIEMANN 8-24-71 | Notes Chk'd. | Checked | No.
Indexed C. J. GALLI | Date | Date

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "C" |
|---|---|---|---|---|---|
| T.P. | 0227 | 178 ~~626~~ 9080 | | 178 853 | |
| T.P. | 0500 | 1 ~~64~~ 70 057 ~~603~~ | 9523 | 169 ~~103~~ 557 | |
| T.B.M. 31 | 3110 | 170163 | 3004 | 165 ~~599~~ 7053 | T.B.M. 31. L.&T. IN CENTER DIVIDER NEAR ENTRANCE TO WAYFARER CHAPEL |
| P-2 | 3836 | 167141 | 6858 | 163305 | P-2 P.V.DR.S. NEAR WAYFARER CHAPEL. L.&C.E. TAG IN N. CURB OF CENTER DIVIDER |
| T.P. | 3830 | 164536 | 6435 | 160706 | |
| P-3 | 4090 | 162076 | 6550 | 157 ~~980~~ 8 | P-3 P.V.DR. S. NEAR ENT. TO ABALONE SHORE CLUB. L.&C.E TAG IN N. CURB CEN. DIVIDER |
| T.P. | 8863 | 169152 | 1787 | 160289 | |
| B.M. 34-18 | | | 0663 | 168489 | B.M. 34-18 P.V. DR. S. & NARCISSA DR. C.E. MON. ELEV. 168.560 1970 PRECISE ADJ. |
| | | END | OF | LINE | "C" |
| T.B.M. #31 | 6219 | 173272 | | 167 053 | FROM ABOVE |
| T.P. | 5472 | 175563 | 3181 | 170091 | |
| B.M. 34-19A | 11790 | 184322 | 3031 | 172532 | B.M. 34-19A ELEV. 172.679, 1970 PRECISE ADJ. |
| T.P. | 11962 | 195866 | 0418 | 183904 | |
| | 11981 | 207546 | 0301 | 195565 | |
| | 11882 | 218940 | 0488 | 207058 | |
| | 11430 | 230188 | 0182 | 218758 | |
| | 6066 | 236012 | 0242 | 229 ~~770~~ | |
| | | | 3628 | 232384 | |
| B.M. 34-20B | | | | | B.M. 34-20 B ELEV. 232.451, 1970 PRECISE ADJ. |

0021.64

F. B. 2483 PG. 125

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. ____ Division No. 11

X-Sec. No. ____ Notes Chk'd. ____ Date ____ Checked ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE

Survey by DREIER Notes DREIER Date 8-16-71

Map No. ____ Indexed C. J. GALLI Date MAR 27 '71

# PORTUGUESE BEND LANDSLIDE

## JOB NO. 0021.64

## AUGUST 1971 RELEVELING OF LINE "D"

DREIER
MALDONADO
SIEMANN
PETERSON, D.C.

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| | | | | |

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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403 Los Angeles County Engineering Bldg.

76-L-298 CE 307 5-66

76-L-298 CE 307 5-66

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F.B. 2483 Pg. 126 | Job No. 002164 | Division No. 11 | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | Date | No.
Survey by DREIER | Notes DREIER | Notes Chk'd. | Checked | X-Sec.
Indexed E. J. GAIII | Date | Date | Date | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "D" | |
|---|---|---|---|---|---|---|
| B.M. 34-14A | 3 231 | 234 491 | | 231 260 | B.M. 34-14A ELEV. 231.260, 1970 PRECISE ADJ. | |
| | 3 545 | 231 709 | 6 327 | 228 164 | | |
| | 3 178 | 228 629 | 6 258 | 225 451 | | |
| | 1 660 | 221 641 | 8648 | 219 981 | | |
| | 2 221 | 215 563 | 8 299 | 213 342 | | |
| | 5 011 | 212 856 | 7 718 | 207 845 | | |
| B.M. 50-13 | 1 283 | 209 466 | 4 673 | 208 183 | B.M. 50-13 MON. | |
| | 7 142 | 208 298 | 8 310 | 201 156 | | |
| | 11 317 | 216 526 | 3089 | 205 209 | | |
| | 11 221 | 226 905 | 0 842 | 215 684 | | |
| | 10 558 | 236 995 | 0 468 | 226 437 | | |
| | 11 400 | 247 995 | 0 400 | 236 595 | | |
| | 11 530 | 259 073 | 0 452 | 247 543 | | |
| | 10 752 | 269 463 | 0 362 | 258 711 | | |
| | 11 785 | 279 427 | 1 821 | 267 642 | | |
| | 11 099 | 290 138 | 0 388 | 279 039 | | |
| | 11 703 | 299 483 | 2358 | 287 780 | | |
| | 11 452 | 310 432 | 0 503 | 298 980 | | |
| | 6 059 | 314 382 | 2 109 | 308 323 | | |
| SHIELDS | 3 878 | 314 253 | 4 007 | 310 375 | SHIELDS MON. | |
| | 2 022 | 310 443 | 5 832 | 308 421 | | |

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**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "D" | |
|---|---|---|---|---|---|---|
| | | 310 443 | | | | |
| T.P. | 0369 | 299 361 | 11 451 | 298 992 | | |
| | 2 067 | 289 860 | 11 568 | 289 793 | | |
| | 0831 | 279 888 | 10 803 | 279 057 | | |
| | 0411 | 268 572 | 11 727 | 268 161 | | |
| | 0331 | 257 065 | 11 838 | 256 734 | | |
| | 0 320 | 246 098 | 11 287 | 245 778 | | |
| | 0464 | 236 016 | 10 546 | 235 552 | | |
| | 0 591 | 225 024 | 11 583 | 224 433 | | |
| | 0 397 | 215 203 | 10 218 | 214 806 | | |
| | 0197 | 204 213 | 11 187 | 204 016 | | |
| | 3 578 | 201 393 | 6 398 | 197 815 | | |
| J-5 | 8 338 | 203 470 | 6 261 | 195 132 | J-5 | MON |
| T.P. | 8 186 | 211 264 | 0392 | 203078 | | |
| RADIAL 2 ECC.$^2$ | 5 977 | 210 984 | 6 257 | 205 007 | RADIAL 2 ECC. #2 | MON. |
| J-4 A | 1 569 | 204642 | 7 911 | 203073 | J-4 A | " |
| T.P. | 5 420 | 199 263 | 10 799 | 193 843 | | |
| J-3 | 6 651 | 200 506 | 5 408 | 193855 | J-3 | MON |
| T.P. | 1 772 | 197 861 | 4 417 | 196 089 | | |
| | 3 152 | 191 780 | 9 233 | 188 628 | | |
| J-1 | 7 712 | 190 674 | 8 818 | 182 962 | J-1 | 3/4" I.P. |

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0021.64 Division No. 11 F. B. 2483 PG. 127
X-Sec. No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
Notes Chk'd. ____ Checked ____ Survey by DREIER Notes DREIER Date 8-16-71
Date ____ Date ____ Map No. ____ Indexed E. J. GALLI Date AUG 27 71

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F. B. 2483 Pg. 128 | Job No. 002164 | Division No. 11 | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date 8-18-71 | Date | No. | X-Sec.
Survey by DREIER | Notes SIEMANN | Notes Chk'd. | Checked
Indexed E. J. GALLI | Date | Date | No.

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "D" | |
|---|---|---|---|---|---|---|
| | | 190 674 | | | | |
| T.P. | 8301 | 194 198 | 4777 | 185897 | | |
| | 9722 | 203 352 | 0568 | 193 890 (63) | | |
| | 9597 | 212 629 | 0320 | 203032 | | |
| | 9938 | 221 946 | 0621 | 212008 | | |
| | 8403 | 228 988 | 1361 | 220585 | | |
| J-1A | 10948 | 238 155 | 11781 | 217207 | J-1A | MON |
| | 10231 | 237 675 | 0711 | 227444 | | |
| | 11309 | 248 513 | 0471 | 237204 | | |
| | 9959 | 248 148 | 0324 | 248 189 | | |
| | 8938 | 256868 | 02182 | 247930 | | |
| | 9680 | 266 145 | 0403 | 256465 | | |
| | | | | | | |
| | 11998 | 277945 | 01982 | 265947 | | |
| T. P. | 7673 | 285029 | 0589 | 277356 | | |
| BLAKESLEY | 94192 | 99596 | 48522 | 80177 | BLAKESLEY | C.E. MON |
| T.P | 26383 | 00307 | 19272 | 97663 | | |
| | 02622 | 92122 | 84412 | 91866 | | |
| | 03672 | 82947 (53) | 95422 | 82586 | | |
| | 27312 | 74675 (41) | 11043 | 71904 (10) | | |
| T. P. | | | 31912 | 71449 (59) | CONT. | |

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "D" | |
|---|---|---|---|---|---|---|
| T. P. | 10021 | 281 ~~465~~ 71 | | 271 ~~444~~ 50 | CONT. | |
| | 9668 | 290137 | 1002 | 280469 | | |
| | 9221 | 298777 | 0581 | 289556 | | |
| | 11130 | 309189 | 0718 | 298059 | | |
| P.-4 | 0551 | 302407 | 7333 | 301856 | P-4 | MON. |
| T. P. | 0969 | 291876 | 11500 | 290901 | | |
| | 0702 | 281 ~~014~~ 20 | 11558 | 280318 | | |
| | 0343 | 270 ~~065~~ 71 | 11292 | 269728 | | |
| | 0965 | 259993 | 11037 | 259 ~~028~~ 34 | | |
| | 0583 | 249 ~~465~~ 71 | 11111 | 248882 | | |
| | 0975 | 239322 | 11118 | 238 ~~347~~ 53 | | |
| | 0530 | 228013 | 11839 | 227483 | | |
| | 0837 | 217 ~~914~~ 20 | 10936 | 217087 | | |
| | 0841 | 207492 | 11263 | 206659 | | |
| | 0652 | 196 ~~594~~ 600 | 11550 | 195942 | | |
| | 1012 | 186483 | 11129 | 185 ~~465~~ 71 | | |
| | 0551 | 177 ~~404~~ 60 | 9624 | 176853 | | |
| | 6315 | 173026 | 10699 | 166 ~~705~~ 11 | | |
| B.M.34-18 | | | 4401 | 168 ~~619~~ 25 | B.M.34-18 | ELEV.=168.560, 1970 PRECISE |

Profile Notes Red ____ Plotted ____ Job No. 0021.64 Division No. 11 F. B. 2483 PG. 129
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chk'd. ____ Checked ____ Survey by DREIER Notes SIEMANN Date 8-18-71
No. ____ Date ____ Date ____ Map No. ____ Indexed E. J. GALLI Date AUG 27 '71

F. B. 2483 PG. 131

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0021.64 Division No. 11

Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE

X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey by DREIER Notes ____ Date ____

Date ____ Date ____ Map No. ____ Indexed E. J. GALLI Date AUG 27 '71

# PORTUGUESE BEND LANDSLIDE

## JOB. No. 0021.64

## AUGUST 1971 RELEVELING LINE "E"

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| | | | | |

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F. B. 2483 Pg. 132 | Job No. 002.64 Division No. // Notes Red ____ Plotted ____ Profile ____
Survey of PORTUGUESE BEND LANDSLIDE Date 8-24-71 No. ____ X-Sec. ____
Survey by DREIER Notes ____ Notes Chk'd. ____ Checked ____ No. ____
Indexed C. J. GALLI Date ____ Date ____ Date ____

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE E | |
|---|---|---|---|---|---|---|
| B.M. 34-14A | 3443 | 234703 | | 231260 | B.M. 34-14A, ELEV.= 231.260, 1970 PRECISE ADJ. P.V.DR. S.& SCHOONER DR. N.W. COR. U.S.C.&G.S. | |
| B.M. 34-15A | 1293 | 232312 | 3684 | 231019 | B.M. 3415A P.V.DR.S. & YACHT HARBOR DR. B.SPK IN CURB | |
| T.P. | 0784 | 223163 | 9933 | 222379 | | |
| | 1425 | 213939 | 10640 | 212514 | | |
| | 3510 | 211402 | 6047 | 207892 | | |
| | 0277 | 203473 | 8206 | 203196 | | |
| | 5829 | 193305 | 10995 | 187476 | | |
| | 0601 | 182787 | 11117 | 182186 | | |
| K-10A | 2879 | 175671 | 9995 | 172792 | K-10A BT SPK W. ET | |
| K-10B | 6092 | 175671 | 6092 | 169579 | | |
| K-10C | 7398 | 175604 | 7465 | 168206 | K-10C L.ET. | |
| BT. SPK. | 3652 | 171823 | 7435 | 168171 | BT. SPK. ABOVE K-10 | |
| | | | | -0930 | DEER | |
| K-10 | | | | 167241 | K-10 MON. | |
| K-9A | 5614 | 169146 | 8291 | 163532 | K-9A BT SPK W. CTN | |
| T.P. | 7635 | 167683 | 9098 | 160048 | | |
| K-9B | 5890 | 167708 | 5865 | 161818 | K-9B 2" I.P. & BT. SPK. | |
| T.P. | 6563 | 167724 | 6547 | 161161 | | |
| K-9 | 5338 | 165012 | 8270 | 159674 | K-9 3/4" I.P. & TAG | |
| K-8A | 0845 | 158829 | 7028 | 157984 | K-8A BT. SPK. W. ET | |
| K-8B | | | 3239 | 155591 | K-8B 2" I.P. W. ET. SPK. | |

J-L-298 CE 307 5-66

J

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| STATION | B. S. | H. I. | F. S. | ELEV. | | |
|---|---|---|---|---|---|---|
| K-8B | 3180 | 158771 | | 155591 | K-8B 2" I.P. & T.P. | |
| T.P. | 0253 | 151028 | 7996 | 150775 | | |
| | 0192 | 139878 | 11342 | 139686 | | |
| | 1188 | 129683 | 11385 | 128495 | | |
| | 0919 | 120374 | 10229 | 119455 | | |
| | 4056 | 114544 | 9886 | 110488 | | |
| W-3 | 5279 | 114503 | 5320 | 109224 | W-3 | MON. |
| T.P. | 10204 | 123458 | 1249 | 113254 | | |
| | 10489 | 123727 | 0218 | 123240 | | |
| | 5306 | 127990 | 1045 | 122684 | | |
| K-5 | 1923 | 127199 | 1967 | 125232 | K-5 | MON. |
| T.P. | 0673 | 130883 | 7799 | 130210 | | |
| | 1491 | 120958 | 11415 | 119467 | | |
| | 0395 | 110118 | 11239 | 109723 | | |
| | 3975 | 104005 | 10088 | 100030 | | |
| K-5 MON | 0848 | 102601 | 2252 | 101753 | K-5 MON | |
| T.P. | 0248 | 93262 | 9587 | 93014 | | |
| | 0272 | 81962 | 11572 | 81690 | | |
| | 0254 | 70792 | 11424 | 70538 | | |
| | 0913 | 60365 | 11340 | 59452 | | |
| T.P. | | | 11593 | 48772 | | |

Profile Notes Red ____ Plotted ____ Job No. 0021.64 Division No. ____ F. B. 24483 Pg. 133
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chk'd. ____ Checked ____ Survey by DREIER Notes SIEMANOWSKI Date 8-25-71
No. ____ Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date AUG 27 71

76-L-298 CE 307 5-66

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| STATION | B. S. | H. I. | F. S. | ELEV. | L-1 |
|---|---|---|---|---|---|
| T.P. | 3068 | [illegible] | | 48772 | |
| | 4058 | 50305 | 5590 | 46257 | |
| T.S.N. #28 | 6810 | 52775 | 4343 | 45965 | T.S.N. #28 [illegible] |
| K-3A | 3304 | [illegible] | [illegible] | 42538 | K-3A [illegible] |
| T.P. | 2689 | 40778 | [illegible] | [illegible] | |
| " | 10781 | 41346 | 10213 | 30565 | |
| | 10129 | 51229 | 0246 | 41100 | |
| K-2A | 3627 | 51093 | 3723 | 47456 | K-2A 2" I.P. [illegible] |
| T.P. | 0724 | 41824 | [illegible] | [illegible] | |
| | 10540 | 41105 | [illegible] | [illegible] | |
| " | 11328 | [illegible] | 0318 | [illegible] | |
| | 7118 | 53369 | [illegible] | 46257 | |
| | 0709 | 52509 | 1569 | 51800 | |
| " | 1101 | 43948 | 9662 | 42847 | |
| " | 1095 | 34321 | 10722 | 33226 | |
| " | 2168 | 27681 | 8828 | 25493 | |
| " | 1158 | 18133 | 10736 | 16[illegible] | |
| SPK | 4[illegible] | 17047 | 5393 | 12538 | SPK. @ NW [illegible] COURTS |
| T.P. | 4442 | 17490 | 3999 | 13048 | |
| " | 6163 | 17653 | 6000 | 11490 | |
| " | 2702 | 17780 | 2575 | 15078 | P.B. 8 SPK IN TOP OF ROCK & CONC GRAND ELEV. 8.03 |
| P.B. 8 | | | 9,699 | 8,081 | |

F. B. 2483 Pg. 134 Job No. 0021.64 Division No. 11 Notes Red Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date 8-25-71 Date No. X-Sec.
Survey by DREIER Notes SIEMANN 8-25-71 Notes Chk'd. Checked No.
Indexed C. J. GALLI Date Date Date

F. B. 2483 PG. 135

Profile No. ____ X-Sec. No. ____ Notes Red ____ Date ____ Notes Checked BLANCHARD Date FEB 2 4 '72 Plotted ____ Date ____ Plotted ____ Date ____

Job No. 0021.64 Division No. 11
Survey of Portuguese Bend Landslide
Survey by Dreier Notes J.M.M. Date 2-2-72
Map No. ____ Indexed C. J. GALLI Date FEB 15 '72

JOB No. 0021.64

# PORTUGUESE BEND LANDSLIDE

## FEB. 1972 RELEVELING LINE "A"

Dreier
Maldonado
Siemann
McKnight
Ohashi

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| | | | | |

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "A" |
|---|---|---|---|---|---|
| BM 50-7 | 5130 | 1206577 | | 1201447 | BM 50-7 Elev. 1201.447, 1970 Precise Adj. Crenshaw Blvd. & Crest Rd. N.E. Cor., Mon. |
| T.P. | 0370 | 1196495 | 10452 | 1196125 | |
| " | 0383 | 1185127 | 11751 | 1184744 | |
| " | 0546 | 1173817 | 11850 | 1173277 | |
| " | 1320 | 1163787 | 11350 | 1162467 | |
| BM C-1 | 7968 | 1168613 | 3142 | 1160645 | BM C-1 Crenshaw Blvd. & Whitley Collins Dr. N.W. Cor., Bt. SPK. in S.E. Cor. of Edison M.H. |
| T.P. | 9378 | 1177071 | 0920 | 1167693 | |
| " | 9588 | 1184519 | 2140 | 1174931 | |
| " | 6230 | 1188090 | 2659 | 1181860 | |
| " | 5420 | 1187630 | 5880 | 1182210 | |
| BM 50-8 | 2420 | 1184662 | 5388 | 1182242 | BM 50-8 Elev. 1182.205 1970 Precise Adj. Crenshaw Blvd., E. of Seacrest. (Mon). |
| " | 1552 | 1176662 | 9552 | 1175110 | |
| " | 0360 | 1167161 | 9861 | 1166801 | |
| " | 0380 | 1156471 | 11070 | 1156091 | |
| " | 0238 | 1145249 | 11460 | 1145011 | |
| " | 0470 | 1134119 | 11600 | 1133649 | |
| " | 0200 | 1123754 | 10565 | 1123554 | |
| " | 0470 | 1112542 | 11682 | 1112072 | |
| " | 0261 | 1102281 | 10522 | 1102020 | |
| " | 3122 | 1095438 | 9965 | 1092316 | |
| BM C-2 | 0365 | 1091692 | 4111 | 1091327 | BM C-2 Bt. SPK. in Lg. Boulder on Crenshaw Blvd. |

F.B. 2483 PG. 136 Job No. 0021.64 Division No. 11 Notes Red Plotted Profile
Survey of Portuguese Bend Landslide Date Date No.
Survey by Dreier Notes Maldonado 2-2-72 Notes Chk'd BLANCHARD Checked X-Sec.
Indexed C. J. GALLI Date Date FEB 2 4 72 Date No.

76-L-298 CE 307 5-66

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE | A |
|---|---|---|---|---|---|---|
| B.M. C-2 | | 1091 692 | | | Cont. | |
| T.P | 0358 | 1082138 | 9912 | 1081780 | | |
| " | 0975 | 1073754 | 9359 | 1072779 | | |
| " | 0635 | 1064734 | 9655 | 1064099 | | |
| " | 0445 | 1053960 | 11219 | 1053515 | | |
| " | 0215 | 1043611 | 10564 | 1043396 | | |
| " | 0305 | 1033166 | 10750 | 1032861 | | |
| T.P. | 1300 | 1023466 | 11000 | 1022166 | | |
| " | 0618 | 1013914 | 10170 | 1013296 | | |
| " | 1328 | 1007610 | 7632 | 1006282 | | |
| BM 50-9 | 10805 | 1010305 | 8110 | 999500 | BM 50-9 Elev. 999.460 Poured Mon. on W. Side | 1970 Precise Crenshaw Blvd. Opposite Water Tank |
| T.P. | 0380 | 999663 | 11022 | 999283 | | |
| " | 0610 | 988413 | 11860 | 987803 | | |
| " | 0341 | 978224 | 10530 | 977883 | | |
| " | 0261 | 966985 | 11500 | 966724 | | |
| " | 0696 | 956601 | 11080 | 955905 | | |
| T.B. 11 | 1650 | 949001 | 9250 | 947351 | T.B.M. 11 BM 50-9A Elev. 947.303 | 1970 Precise P.K. SPK in Rock wall |
| T.P. | 3430 | 942236 | 10195 | 938806 | | |
| BM Z-1 | 0248 | 935459 | 7025 | 935211 | B.M. Z-1 Precast Mon. | |
| TP | 0797 | 925225 | 11031 | 924428 | | |
| " | 0395 | 914480 | 11140 | 914085 | | |

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0021.64 Division No. 11
Date ____ Date ____ Survey of Portuguese Bend Landslide
X-Sec. No. ____ Notes Clk. ____ Checked ____ Survey by Dreier Notes J.M.M. Date 2-2-72
Date FEB 24 72 Date ____ Map No. ____ Indexed C. J. GALLI Date FEB 15 72

F.B. 2483 PG. 137

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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**Do not extend notes this side of this line.**

F. B. 2483 PG. 138 | Job No. 0021.64 | Division No. 11 | Notes Red | Plotted | Profile
Survey of Portuguese Bend Landslide | Date | No. | X-Sec.
Survey by Dreier Notes Maldonado | Date | Checked
Indexed E. J. GALLI | Date | Date FEB 2 4 '72 | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A |
|---|---|---|---|---|---|
| T.P | | 919480 | | | |
| " | 0541 | 904322 | 10699 | 903781 | |
| " | 0278 | 893510 | 11090 | 893232 | |
| " | 0301 | 881961 | 11850 | 881660 | |
| " | 1030 | 872361 | 10630 | 871331 | |
| " | 4335 | 866316 | 10420 | 861941 | |
| BM 50-10 | 3830 | 862124 | 8022 | 858294 | BM 50-10 Elev. 858.162 1970 Precise 51' Side of Crenshaw Poured Mon. |
| T.P. | 0260 | 851393 | 10991 | 851133 | |
| " | 0280 | 840138 | 11535 | 839858 | |
| " | 0369 | 828739 | 11768 | 828350 | |
| " | 0254 | 817993 | 11000 | 817739 | |
| " | 0411 | 806436 | 11968 | 806025 | |
| " | 6232 | 802900 | 9768 | 796668 | |
| Y-4 | 6068 | 799761 | 9267 | 793693 | Y-4 Bt. Spk in Conc. in 2" I.P. |
| T.P. | 0221 | 791352 | 8630 | 791131 | |
| " | 4196 | 786053 | 9495 | 781857 | |
| T.B.M. #12 | 8740 | 786032 | 8761 | 777292 | T.B.M. #12 BM 50-10A Elev. 777.183 1970 Precise |
| T.P. | 0517 | 774918 | 11631 | 774401 | |
| " | 0450 | 763905 | 11463 | 763455 | |
| " | 0189 | 752359 | 11735 | 752170 | |
| " | 0625 | 741744 | 11240 | 741119 | |

76-L-298 CE 307 5-66

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**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "A" |
|---|---|---|---|---|---|
| | | 741 744 | | | |
| T.P. | 0286 | 730350 | 11680 | 764064 | |
| " | 0366 | 719547 | 11169 | 719181 | |
| " | 0397 | 708149 | 11795 | 707752 | |
| " | 0300 | 696459 | 11990 | 696159 | |
| " | 0310 | 685339 | 11430 | 685029 | |
| T.B.M #13 | 0436 | 676672 | 9102 | 676237 | T.B.M #13 P.K. SPK in Rockwall<br>BM 50-10B Elev. 676.097 1970 Precise |
| T.P. | 0480 | 665607 | 11545 | 665127 | |
| | 2260 | 656392 | 11475 | 654132 | |
| BM 50-11 | 0823 | 648604 | 8611 | 647781 | BM 50-11 Elev. 647.634 1970 Precise<br>Poured Mon. |
| T.P. | 0521 | 637256 | 11869 | 636735 | |
| " | 0235 | 626062 | 11429 | 625827 | |
| " | 0673 | 614974 | 11761 | 614301 | |
| " | 0461 | 603880 | 11555 | 603419 | |
| " | 0781 | 593221 | 11440 | 592440 | |
| " | 0221 | 581765 | 11677 | 581544 | |
| " | 0241 | 570246 | 11760 | 570005 | |
| " | 0230 | 558744 | 11732 | 558514 | |
| " | 0745 | 547549 | 11940 | 546804 | |
| " | 0594 | 536609 | 11534 | 536015 | |
| " | 0540 | 525261 | 11888 | 524721 | |

Profile Notes Red Plotted Job No. 02164 Division No. 11
No. Date Date Survey of Portuguese Bend Landslide
X-Sec. Notes Ch. BLANCHARD Checked Survey by Dreier Notes J.M.M. Date 2-2-72
No. Date 2-4-72 Date Map No. Indexed C.J. CALL Date FEB 15 '72

F. B. 2483 PG. 139

76-L-298 CE 307 5-66

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "A" |
|---|---|---|---|---|---|
| | | 525 ~~621~~ 26 | | | |
| T.P. | 0218 | 513854 | 11625 | 513636 | |
| " | 0275 | 502384 | 11745 | 502109 | |
| " | 0645 | 491349 | 11680 | 490704 | |
| " | 0400 | 481364 | 10385 | 480964 | |
| " | 5070 | 480612 | 5822 | 475542 | |
| Tank | 1289 | 476764 | 5137 | 475475 | Tank Bt.SPK.W.&T (Near Water Tank) |
| " | 11643 | 476817 | 11590 | 465174 | |
| TANK 2 | 1681 | 476797 | 1701 | 475116 | TANK 2, {TOP OF FLANGE OF 7" PIPE 1.5 FT. E. OF EAST SIDE OF TANK |
| T.P. | 0190 | 465365 | 11622 | 465175 | |
| " | 0427 | 457490 | 8302 | 457063 | |
| " | 0509 | 446129 | 11870 | 445 ~~4~~ 6 20 | |
| " | 1130 | 436849 | 10410 | 435719 | |
| " | 0578 | 425763 | 11664 | 425185 | |
| " | 0290 | 414229 | 11824 | 413938 9 | |
| " | 0349 | 403032 | 11546 | 402683 | |
| " | 0371 | 393272 | 10131 | 392901 | |
| S.B. #2 | 8690 | 392151 | 9811 | 383461 | S.B. "2 |
| S.B. #1 | 8205 | 395116 | 5240 | 386911 | S.B. #1 |
| | 5419 | 399180 | 1355 | 393761 | |
| P.T. 1 | 1650 | 394399 | 6431 | 3~~6~~927 ~~6~~49 | P.T. 1 Bt.SPK W.&T. |

F.B. 2483 Pg. 140

Job No. 0021.64 Division No. 11 Notes Red Plotted Profile

Survey of Portuguese Bend Landslide Date Date No.

Survey by Dreier Notes Maldonado 2-3-72 Notes Checked BLANCHARD X-Sec.

Indexed C. J. GALLI Date Date FEB 24 72 Date No.

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Profile Notes Rel____ Plotted____ Job No. 0021.64 Division No. 11
No.____ Date____ Date____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Ck. BLANCHARD Checked____ Survey by DREIER Notes DREIER Date 2-3-72
No.____ Date FEB 2 4 72 Date____ Map No.____ Indexed C. J. GALLI Date FEB 15 72

F. B. 2483 Pg. 141

| STATION | B. S. | H. I. ~~394 399~~ | F. S. | ELEV. | LINE "A" CONT. |
|---|---|---|---|---|---|
| B1B | 8 450 | 392 799 | 10 050 | 384 349 | B1B 2" I.P. & TAG, 19.3 N'ELY OF P.P., 26.3 FROM GUY CABLE |
| T.P | 0 945 | 391 496 | 2 248 | 390 551 | |
| | 0 810 | 382 406 | 9 900 | 381 596 | |
| | 0 371 | 371 481 | 11 316 | 371 090 | |
| | 0 399 | 360 725 | 11 135 | 360 326 | |
| | 0 271 | 349 196 | 11 800 | 348 925 | |
| | 0 351 | 338 558 | 10 989 | 338 207 | |
| | 7580 | 341 718 | 4 420 | 334 138 | |
| | 7686 | 348 444 | 0 960 | 340 758 | |
| D2 | 7618 | 352 812 | 3 250 | 345 194 | D2 PRECAST MON. 10.5 S. OF STEEL CASING |
| T.P | 11 971 | 363 522 | 1 261 | 351 551 | |
| T.P | 11 271 | 374 531 | 0 262 | 363 260 | |
| DAVIS | 0 770 | 370 680 | 4 621 | 369 910 | DAVIS PRECAST MON. |
| T.P | 0 641 | 360 152 | 11 169 | 359 511 | |
| | 0 869 | 350 289 | 10 732 | 349 420 | |
| | 0 209 | 339 577 | 10 921 | 339 368 | |
| | 0 968 | 329 366 | 11 179 | 328 398 | |
| | 0 410 | 317 825 | 11 951 | 317 415 | |
| A3A | 11 470 | 320 163 | 9 132 | 308 93 | A3A 2" I.P. & BUTTON CAP |
| I.P. | 10 068 | 328 327 | 1 904 | 318 259 | |

76-L.[illegible] CE 307 5-66

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76-L-208

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F.B. 2483 Pg. 142 Job No. 0021.64 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of PORTUGUESE BEND LANDSLIDE Date ____ No. ____
Survey by DREIER Notes DREIER 2-3-72 Notes Ck. BLANCHARD Checked ____ X-Sec. ____
Indexed C. J. GALLI Date ____ Date FEB 2 4 72 Date ____ No. ____

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "A" CONT. | |
|---|---|---|---|---|---|---|
| | | 328 327 | | | | |
| A 4 | 8 542 | 331 004 | 5 865 | 322462 | A 4 PRECAST MON. | |
| T.P | 11 447 | 341 191 | 1 260 | 329744 | | |
| | 10 997 | 351 976 | 0 212 | 340979 | | |
| RADIAL 1 | 6 202 | 353 189 | 4 989 | 346987 | RADIAL 1 PRECAST MON 2FT DEEP | |
| T.P | 0 856 | 342 380 | 11 665 | 341 524 | | |
| | 3 200 | 334 679 | 10 901 | 331 479 | | |
| B.M. 50-12 | 9225 | 338 107 | 5 797 | 328882 | B.M. 50-12 ~~PRECAST~~ POURED MON. | |
| T.P | 0 389 | 327 816 | 10 680 | 327 427 | | |
| | 0 290 | 316 526 | 11 580 | 316 236 | | |
| | 0 503 | 306 739 | 10 290 | 306 236 | | |
| | 0 990 | 297 529 | 10 200 | 296 539 | | |
| | 0 410 | 286 460 | 11 479 | 286 050 | | |
| | 4 830 | 279 521 | 11 769 | 274 691 | | |
| T.P | 0 802 | 277 045 | 3278 | 276243 | T.P ON POLE # A7916Y, S.E. COR CULTIVATED FIELD | |
| | 0 270 | 267 297 | 9918 | 267 027 | | |
| | 0 303 | 256 600 | 11 600 | 256 297 | | |
| | 0 449 | 245 689 | 11 360 | 245 240 | | |
| | 0 534 | 234 440 | 11 783 | 233 906 | | |
| | 0 442 | 223 231 | 11 651 | 222 289 | | |
| | 0 376 | 212 019 | 11 582 | 211 437 | C.D | |

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A | |
|---|---|---|---|---|---|---|
| T.P. | 0 425 | 212 019 / 200 644 | 11 800 | 200 219 | CONT. | |
| | 0189 | 189 042 | 11 791 | 188 953 | | |
| | 0544 | 178 436 | 11 150 | 177 892 | | |
| | 11 491 | 189 482 | 0545 | 177 891 | | |
| | 11 990 | 201 262 | 0210 | 189 272 | | |
| | 4 219 | 201 499 | 3882 | 197 280 | | |
| | 7972 | 208 731 | 0740 | 200 759 | | |
| | 6 810 | 211 636 | 4005 | 204 126 | | ELEV. = 208.157 1970 ADJ. |
| B.M. 50-13 | 4 580 | 212 876 | 3240 | 208 296 | B.M. 50-13 MON. | |
| 50-13A | 10 695 | 221 151 | 2 420 | 210 456 | B.M. 50-13A SPK IN ASPHALT CURB | |
| | 10 616 | 230 182 | 0985 | 220 166 | | |
| | 10 671 | 240 584 | 0 869 | 30013 / ~~229913~~ | | |
| K-6 | 3 974 | 240 619 | 4039 | 236 645 | K-6 MON. | |
| | 0 840 | 230 290 | 11 069 | 229 450 | | |
| | 0 361 | 220 248 | 10 403 | 219 887 | | |
| | 9540 | 220 090 / ~~219 990~~ | 9 798 | 210 450 | | |
| | 8 750 | 228 170 | 0 570 | 219 420 | | |
| | 7610 | 232 755 | 3 025 | 225 145 | | |
| | 6 170 | 235 394 | 3531 | 229 224 | | |
| B.M. 34-14A | | | 4038 | 231 956 | B.M. 34-14A (U.S.C.&G.S. T 1053) ELEV. = 231.260 1970 PRECON | |

Profile Notes Red ____ Plotted ____ Job No. 0021.64 Division No. 11
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Clk'd BLANCHARD Checked ____ Survey by DREIER Notes DREIER Date 2-3-72
No. ____ Date FEB 2 4 72 Date ____ Map No. ____ Indexed C. J. GALLI Date FEB 15 72

F.B. 2483 PG. 143

Profile No. ____ X-Sec. No. ____ Notes Red ____ Date ____ Notes Ck'd BLANCHARD Date FEB 24 '72 Plotted ____ Date ____ Checked ____ Date ____ Job No. 0021.64 Division No. 11 Survey of PORTUGUESE BEND LANDSLIDE Survey by DREIER Notes SIEMAN Date 2-4-72 Map No. ____ Indexed C. J. GALLI Date FEB 15 '72

F. B. 2483 PG. 145

# PORTUGUESE BEND LANDSLIDE

## JOB # 0021.64

## FEB. 1972 RELEVELING LINE "B"

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| | | | | |

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**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "B" | |
|---|---|---|---|---|---|---|
| SWEETBAY 2 | 2951 | 386412 | | 383461 | S.B. 2 ELEV. 383.461 | PER PAGE 140 |
| T.P | 0291 | 379771 | 6932 | 379480 | L. & T. IN DRIVE. | |
| " | 0229 | 368725 | 11275 | 368496 | | |
| " | 2177 | 360262 | 10640 | 358085 | | |
| S.B.# 3 | 11072 | 364172 | 7162 | 353100 | S.B.#3 SPK.W. & T. | |
| T.P. | 11650 | 375281 | 0541 | 363631 | | |
| " | 11512 | 385492 | 1301 | 373980 | | |
| " | 11163 | 395695 | 0960 | 384532 | | |
| WEST FIX | 1552 | 395586 | 1661 | 394034 | WEST FIX MON | |
| T.P. | 0962 | 385509 | 11039 | 384547 | | |
| " | 0828 | 375095 | 11242 | 374267 | | |
| " | 3439 | 366553 | 11981 | 363114 | | |
| " | 0287 | 359133 | 7707 | 358846 | | |
| " | 0460 | 349267 | 10326 | 348807 | | |
| " | 11870 | 349438 | 11699 | 337568 | | |
| " | 11356 | 360406 | 0388 | 349050 | | |
| " | 0452 | 356566 | 4292 | 356114 | | |
| " | 0531 | 345243 | 11854 | 344712 | | |
| " | 0316 | 333750 | 11809 | 333434 | | |
| " | 2211 | 324290 | 11671 | 322079 | | |
| H-2 | | | 7671 | 316619 | H-2 C.E. MON | |

F.B. 2483 PG. 146 Job No. 0021.64 Division No. 11 Notes Red Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date No.
Survey by DREIER Notes SIEMANN 2-4-72 Notes CHK'D. MANCHARD Checked X-Sec.
Indexed C. J. GALLI Date Date FEB 24 '72 Date No.

76-L-298 CE 307 5-66

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "B" | |
|---|---|---|---|---|---|---|
| H-2 | 0943 | 317562 | | 316619 | H-2 | |
| T.P. | 1692 | 309993 | 9261 | 308301 | | |
| " | 3223 | 305834 | 7382 | 302611 | | |
| H-4 | 4602 | 306234 | 4202 | 301632 | H-4 2" IP. | |
| T.P. | 0245 | 296531 | 9948 | 296286 | | |
| " | 6406 | 291156 | 11781 | 284750 | | |
| " | 10173 | 300992 | 0337 | 290819 | | |
| " | 11693 | 312375 | 0310 | 300682 | | |
| " | 9699 | 321792 | 0282 | 312093 | | |
| " | 8768 | 329328 | 1232 | 320560 | | |
| P.T. 5 | 0671 | 328469 | 1530 | 327798 | P.T. 5 S.PK. W. & T. LIMETREE & PEPPERTREE | |
| T.P | 0637 | 318466 | 10640 | 317829 | | |
| " | 2 0202 | 309169 | 11499 | 306967 | | |
| P.T. 6C | 0343 | 303232 | 6280 | 302889 | P.T. 6C 2" I.P. PEPPERTREE & KUMQUAT | |
| T.P | 0481 | 291913 | 11800 | 291432 | | |
| " | 0501 | 281505 | 10909 | 281004 | | |
| " | 1373 | 272548 | 10330 | 271175 | | |
| " | 0423 | 262431 | 10540 | 262008 | | |
| " | 0312 | 252114 | 10629 | 251802 | | |
| " | 0619 | 241003 | 11730 | 240384 | | |
| " | | | 11608 | 229395 | | |

Profile Notes Red Plotted Job No. 0021.64 Division No. 11 F. B. 2483 Pg. 147
No. Date Date Date Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes C. BLANCHARD Checked Survey by DREIER Notes SIEMAN Date 2-4-72
No. Date FEB 24 72 Date Map No. Indexed G. J. GALLI Date FEB 15 '72

76-L-298 CE 307 5-66

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F.B. 24483 PG. 148 | Job No. 0021.64 | Division No. 11 | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | By RICHARD | Date | No. | X-Sec. No.
Survey by BREIER | Notes SIEMANN 2-4-72 | Notes Chkd. | Checked
Indexed C. J. GALLI | Date | Date | Date | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "B" | |
|---|---|---|---|---|---|---|
| T.P. | 1370 | 230765 | | 229395 | CONT | |
| " | 0278 | 220202 | 10841 | 218924 | | |
| " | 1291 | 212874 | 8619 | 211583 | | |
| " | 3184 | 206521 | 9537 | 203337 | | |
| B.M. C | 0567 | 200075 | 7013 | 199508 | B.M. C RD. DEPT. BRASS DISK. | |
| T.P. | 4892 | 193905 | 11062 | 189013 | | |
| B.M. U.S.C.&G.S. X 977 | 7288 | 194937 | 6256 | 187649 | B.M. U.S.C.&G.S. X 977 P.V.DR.S. & PEPPERTREE | |
| T.P. | 11874 | 206561 | 02250 | 194687 | | |
| " | 11490 | 216733 | 13182 | 205243 | | |
| K-1 | 1847 | 211654 | 6926 | 209807 | K-1 MON. | |
| T.P. | 0368 | 200704 | 11318 | 200336 | | |
| " | 2542 | 192187 | 11059 | 189645 | | |
| " | 5691 | 193148 | 4730 | 187457 | | |
| " | 0227 | 184210 | 9165 | 183983 | | |
| " | 1600 | 174028 | 11782 | 172428 | | |
| B.M. 34-18 | | | 5352 | 168676 | B.M. 34-18 ELEV. = 168.560 1970 PRECISE P.V.DR. SO. & NARCISSA DR. | |
| | | END LINE "B" | | | | |

F. B. 2483 PG. 149

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0021.64 Division No. 11

Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE

X-Sec. No. ____ Notes C. BLANCHARD Checked ____ Survey by DREIER Notes SIEMAN Date 2-4-72

Date FEB 2 8 72 Date ____ Map No. ____ Indexed C. J. GALLI Date FEB 15 72

# PORTUGUESE BEND LANDSLIDE

## JOB 0021.64

## RELEVELING LINE "C"

## FEB. 1972

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| | | | | |

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F.B. 2483 PG. 150 | Job No. 0021.64 | Division No. 11 | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | No. | X-Sec.
Survey by PREG & C.J. GALLI | Notes SIEMANN 2-4-72 | Notes Ck. BLANCHARD | Checked
Indexed | Date | Date FEB 2 '72 | Date | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "C" |
|---|---|---|---|---|---|
| TANK | 5173 | 480648 | | 475475 | TANK ELEV. = 475.475 PER F.B. 2483-140 |
| TANK 2 | 3817 | 478929 | 5536 | 475112 | BT. SPK. W. OF T. NEAR WATER TANK. |
| T.P. | 0310 | 468042 | 11197 | 467732 | TANK 2 TOP OF FLANGE OF 7" PIPE 1.5 FT. E. OF E. SIDE OF TANK. |
| " | 0804 | 457354 | 11492 | 456550 | |
| * " | 0401 | 446011 | 11744 | 445610 | |
| " | 0452 | 434462 | 12001 | 434010 | |
| " | 0450 | 423420 | 11492 | 422970 | |
| " | 3493 | 420103 | 6810 | 416610 | |
| P.B. 9A | 2307 | 416682 | 5728 | 414375 | P.B. 9-A SPK. W. |
| T.P. | 3621 | 412733 | 7570 | 409112 | |
| " | 3727 | 410160 | 6300 | 406433 | |
| " | 7577 | 415649 | 2088 | 408072 | |
| AC 3 | 3488 | 415185 | 3952 | 411697 | AC3 MON |
| T.P. | 3950 | 408025 | 11110 | 404075 | |
| P.B. 9 | 5182 | 409480 | 3727 | 404298 | P.B9 MON. |
| T.P. | 6177 | 412868 | 2789 | 406691 | |
| P.I. 5B | 5100 | 415341 | 2627 | 410241 | P.I. 5-B NARCISSA DR. & SWEET BAY RD. 11 ON. |
| T.P. | 1166 | 411456 | 5051 | 410290 | |
| T.B.M. #30 | 0540 | 406048 | 5948 | 405508 | T.B.M. # 30 BT SPK. NARCISSA DR. & CINNAMON LANE |
| T.P. | 6939 | 407345 | 5642 | 400406 | |
| P.I. 4C | | | 1308 | 406037 | P.I. 4C MON. NACISSA & PLUM TREE |

76-L-298 CE 307 5-66

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**Do not extend notes this side of this line.**

Profile Notes Rel____ Plotted____ Job No. 00 21 64 Division No. 11
X-Sec. No.____ Date____ Date____ Survey of PORTUGUESE BEND LANDSLIDE
Notes Ch. BLANCHARD Checked____ Survey by PREIER Notes SIEMANN Date 2-4-72
Date FEB 2 Date____ Map No.____ Indexed C. J. GALLI Date FEB 15 72

F. B. 2483 PG. 151

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "C" | |
|---|---|---|---|---|---|---|
| P.I. 4C | 4602 | 410 639 | | 406 037 | P.I. 4C CON'T. | |
| T. P. | 9628 | 419 697 | 0570 | 410 069 | | |
| " | 11648 | 430 726 | 0619 | 419 078 | | |
| " | 3846 | 434 230 | 0342 | 430384 | | |
| FRUITTREE 1 | 11419 | 426 068 | 9581 | 424649 | FRUITTREE 1 MON. | FRUITTREE E. OF NARCISSA |
| T. P. | 0243 | 429 368 | 6943 | 429125 | | |
| " | 2442 | 421 022 | 10788 | 418580 | | |
| " | 4663 | 421 918 | 3767 | 417253 | | |
| " | 5752 | 425 147 | 2523 | 419395 | | |
| " | 5634 | 425 916 | 4865 | 420282 | | |
| " | 5313 | 426 764 | 4465 | 421457 | | |
| " | 4643 | 426 509 | 4898 | 421866 | | |
| S.P.H.G.7 R.M.#1 | 4828 | 426 609 | 4728 | 421781 | S.P.H.G-7 R.M.#1 | 70' N. CTR. STA. |
| S.P.H.G-7 | ~~5928~~ 4933 | 425 614 | 5928 | 420681 | S.P.H. G-7 | MON. |
| S.P.H. G-7 R.M.#2 | 2730 | 424 750 | 3594 | 422020 | S.P.H. G-7 R.M.#2 | 57' E. CTR. STA. |
| T.P. | 0951 | 416 363 | 9338 | 415412 | | |
| " | 3958 | 410 464 | 9853 | 406506 | | |
| " | 0826 | 404 768 | 6522 | 403942 | | |
| " | 0200 | 394 969 | 10059 | 394709 | | |
| " | 1992 | 384 412 | 11489 | 382420 | | |
| | 2730 | 382 172 | 5970 | 378442 | CON'T. | |

76-L-298 CE 307 5-66

ECC 2 : 1 58-121

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F.B. 2483 Pg. 152 | Job No. 0021.64 | Division No. U | Notes Red ____ Plotted ____ Profile ____
Survey of PORTUGUESE BEND LANDSLIDE Date ____ Date ____ No. ____ X-Sec. ____
Survey by DRAKE Notes STEMANN 2-7-72 Notes BLANCHARD Checked ____ No. ____
Indexed C. J. GALLI Date ____ Date FEB 24 72 Date ____

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "C" | |
|---|---|---|---|---|---|---|
| | | 382 172 | | | | |
| P.I 3-A | 0597 | 373759 | 9010 | 373162 | P.I. 3-A | MON. NARCISSA & GINGERROOT. |
| T.P | 0491 | 363113 | 11137 | 362622 | | |
| " | 0267 | 353581 | 9799 | 353314 | | |
| " | 0670 | 344831 | 9420 | 344161 | | |
| P.I. 1-A | 5711 | 339541 | 11001 | 333 830 | P.I. 1-A | NARCISSA & FIG TREE BT. SR. IN W. CURB |
| T.P. | 0350 | 329521 | 10370 | 329171 | | |
| " | 0350 | 318633 | 11238 | 318283 | | |
| " | 0580 | 308382 | 10831 | 307802 | | |
| " | 0452 | 298404 | 10430 | 297952 | | |
| " | 0471 | 287842 | 11033 | 287371 | | |
| " | 9874 | 290932 | 6784 | 281058 | | |
| S.P.H.H-7A ECC.#3 | 4252 | 292603 | 2581 | 288357 | S.P.H. H-7A | ECC.#3 |
| " ECC.#4 | 4303 | 292656 | 4 & 250 | 288353 | S.P.H. H-7 A | ECC.# 4 |
| " ECC.#2 | 4201 | 292581 | 4276 | 288380 | S.P.H.H-7A | ECC.# 2 |
| " ECC.#1 | 4649 | 292910 | 4320 | 288261 | S.P.H.H-7 A | ECC.# 1 |
| " ECC.#5 | 8718 | 292866 | 8762 | 284148 | S.P.H-H-7A | ECC.# 5 SET C.E. MON. |
| T.P. | 2839 | 286157 | 9548 | 283318 | | |
| " | 10119 | 294283 | 1993 | 284164 | | |
| " | 8973 | 303060 | 0190 | 294093 | | |
| " | | | 0458 | 302608 | | CONT. |

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Profile Notes Red _____ Plotted _____ Job No. 0021.64 Division No. 11
No. _____ Date _____ Date _____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes CHANCHARD Checked _____ Survey by D REIER Notes SIEMANN Date 2-7-72
No. _____ Date FEB 2 + 72 Date _____ Map No. _____ Indexed C. J. CALLI Date FEB 15 72

F. B. 2483 Pg. 153

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "C" | |
|---|---|---|---|---|---|---|
| T.P | 11 696 | 314 304 | | 302 608 | CONT, | |
| | 11 519 | 325 549 | 0 274 | 314 030 | | |
| | 11 185 | 336 482 | 0 252 | 325 297 | | |
| | 0 747 | 334 589 | 2 640 | 333 842 | | |
| | 0 606 | 325 721 | 9 474 | 325 115 | | |
| | 0 673 | 316 796 | 9 598 | 316 123 | | |
| | 0 717 | 305 552 | 11 961 | 304 835 | | |
| | 0 628 | 294 880 | 11 300 | 294 252 | | |
| | 0 558 | 285 217 | 10 221 | 284 659 | | |
| P.B. 10 | 0 318 | 280 108 | 5 427 | 279 790 | P.B. 10 MON. | |
| T.P | 0 570 | 270 716 | 9 962 | 270 146 | | |
| | 0 732 | 260 770 | 10 678 | 260 038 | | |
| | 0 580 | 250 307 | 11 043 | 249 727 | | |
| | 0 293 | 239 712 | 10 888 | 239 419 | | |
| | 0 279 | 229 890 | 10 101 | 229 611 | | |
| | 0 628 | 219 269 | 11 249 | 218 641 | | |
| | 4 980 | 216 673 | 7 576 | 211 693 | | |
| | 5 558 | 216 759 | 5 472 | 211 201 | | |
| W.F. #1 | 6 998 | 217 697 | 6 060 | 210 699 | W F 1 SPK. IN STEP | |
| T.P. | 4 897 | 217 602 | 4 992 | 212 705 | | |
| WAYFARER | 0 482 | 214 050 | 4 034 | 213 568 | WAYFARER L.&T. AT CHAPEL ENTRANCE | |

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F.B. 2483 Pg. 154 | Job No. 0021.64 | Division No. 11 | Notes Red | Plotted | Profile
Survey of PORTUGUSE BEND LANDSLIDE | Date | No.
Survey by DREIER | Notes SIEMANN 2-7-72 | Checked BRANCHARD | X-Sec.
Indexed C. J. GALLI | Date | Date FEB 24 72 | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "E" |
|---|---|---|---|---|---|
| | | ~~214 050~~ | | | |
| T.P | 0 485 | 202 956 | 11 579 | 202 471 | |
| | 0 314 | 191 581 | 11 689 | 191 267 | |
| | 0 863 | 180 554 | 11 890 | 179 691 | |
| | 1 143 | 171 369 | 10 328 | 170 226 | |
| T.B.M. # 31 | 2 748 | 170 096 | 4 021 | 167 348 | T.B.M. 31 L. & T. IN CTR DIV, P.U.DR.S. AT ENT. TO WAYFARER |
| T.P. | 5 244 | 168 470 | 6 870 | 163 226 | |
| P-2 | 3 888 | 167 467 | 4 891 | 163 579 | P 2 L. & T |
| T.P. | 3 558 | 165 275 | 5 750 | 161 717 | |
| P 3 | 3 913 | 162 177 | 7 011 | 158 264 | P 3 L & T |
| T.P | 9 089 | 170 982 | 0 284 | 161 893 | |
| B.M. 34-18 | | | 2 211 | 168 771 | ELEV. = 168.560 1970 PRECISE ADJ. B.M. 34-18 NARCISSA DR. & P.U. DR. S. |
| PT 5B | 0 518 | 410 759 | | 410 241 | ELEV. PER PAGE 150 PT 5B NARCISSA DR. & SWEETBAY RD. |
| | 0 370 | 401 026 | 10 103 | 400 656 | |
| | 1 394 | 393 600 | 9 420 | 391 606 | |
| | 6 927 | 399 677 | 0 250 | 392 750 | |
| SB 2A, ECC. 1 | 5 351 | 400 048 | 4 980 | 394 697 | SB 2A, ECC. 1 MON FLUSH CONC. BROKEN |
| S.B. 2A, ECC 2 | 4 459 | 399 159 | 5 348 | 394 700 | S.B 2A, ECC 2 MON. DN 4" |
| | 5 928 | 399 677 | 5 410 | 393 749 | |
| | 6 502 | 403 039 | 3 140 | 396 537 | |
| | 6 721 | 408 530 | 1 230 | 401 809 | 405.508 = ELEV. PER PAGE 150 |
| T.B.M. 30 | | | 3 017 | 405 518 | T.B.M. 30 NARCISSA DR. & CINNAMON LN., B.SDK. |

F. B. 2483 Pg. 155

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0021.64 Division No. 11

Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE

X-Sec. No. ____ Notes Ck'd. BLANCHARD Checked ____ Survey by DREIER Notes SIEMANN Date 1-21-72

Date FEB 24 72 Date ____ Map No. ____ Indexed C. J. GALLI Date FEB 15 72

# PORTUGUESE BEND LANDSLIDE

## JOB NO. 0021.64

## JAN. 1972 RELEVELING OF LINE "D"

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| | | | | |

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F. B. 2483 Pg. 156 | Job No. 00 21.64 | Division No. 11 | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | No. | X-Sec.
Survey by C. J. GALLI | Notes SIEMANN 1-21-72 | Checked BLANCHARD | No.
Indexed | Date | Date FEB 24 72

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "D" | |
|---|---|---|---|---|---|---|
| B.M. 34-14A | 3332 | 234592 | | 231 260 | B.M. 34-14A (U.S.C.&G.S.T-1053) ELEV. = | |
| TP | 2592 | 231252 | 5932 | 228660 | 231.260 1970 PRECISE ADJ. P.V.DR. S. | |
| " | 1813 | 226296 | 6769 | 224483 | SCHOONER DR. | |
| " | 1409 | 217228 | 10477 | 215819 | | |
| " | 3481 | 213248 | 7461 | 209767 | | |
| B.M. 50-13 | 3049 | 211210 | 5087 | 208161 | B.M. 50-13 | C.E. MON. |
| T.P. | 3870 | 207389 | 7691 | 203519 | | |
| " | 11460 | 217850 | 0999 | 206390 | | |
| " | 10457 | 228088 | 0219 | 217639 | | |
| " | 10476 | 237945 | 0619 | 227469 | | |
| " | 8296 | 245813 | 0428 | 237517 | | |
| " | 9338 | 254703 | 0448 | 245365 | | |
| " | 8612 | 262935 | 0380 | 254323 | | |
| " | 9760 | 271899 | 0796 | 262139 | | |
| " | 10309 | 281810 | 0398 | 271501 | | |
| " | 8883 | 289996 | 0697 | 281113 | | |
| " | 11652 | 298608 | 3040 | 286956 | | |
| " | 11328 | 309636 | 0300 | 298308 | | |
| " | 6681 | 314589 | 1728 | 309908 | | |
| SHIELDS | 4172 | 314532 | 4229 | 310360 | SHIELDS | C.E. MON. |
| T.P. | 1656 | 309560 | 6628 | 307904 | | |

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "D" | |
|---|---|---|---|---|---|---|
| T.P. | | 309 560 | | | | |
| " | 1050 | 299 350 | 11260 | 298300 | | |
| " | 2 620 | 290851 | 11 119 | 288231 | | |
| " | 1 173 | 281 476 | 10548 | 280303 | | |
| " | 0439 | 272 544 | 9371 | 272105 | | |
| " | 0401 | 261 955 | 10990 | 261554 | | |
| " | 1315 | 252921 | 10349 | 251606 | | |
| " | 0572 | 242 371 | 11 122 | 241 799 | | |
| " | 0632 | 232373 | 10630 | 231 741 | | |
| " | 0 469 | 222221 | 10621 | 221752 | | |
| " | 0257 | 211 141 | 11337 | 210884 | | |
| " | 2827 | 202712 | 11256 | 199885 | | |
| J-5 | 11 812 | 206855 | 7669 | 195043 | J-5 | |
| T.P. | 2 170 | 206947 | 2078 | 204777 | | |
| RADIAL #2 ECC. 2 | 6871 | 211 290 | 2 528 | 204419 | RADIAL #2 ECC. #2 | MON |
| J-4 A | 1 592 | 204 421 | 8461 | 202829 | J-4A | MON |
| T.P. | 6 779 | 200218 | 10 982 | 193439 | | |
| J-3 | 6716 | 199907 | 7027 | 193191 | J-3 | MON |
| T.P. | 1374 | 197 802 | 3 479 | 196428 | | |
| " | 2734 | 190308 | 10 228 | 187574 | | |
| J-1 | 7738 | 190164 | 7882 | 182426 | J-1 | 3/4" I.P. |

Profile Notes Red ____ Plotted ____ Job No. 0021.64 Division No. 11 F.B. 2483 PG. 157
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes PLANCHARD Checked ____ Survey by DREIER Notes SIEMAN Date 1-21-72
No. ____ Date FEB 24 72 Date ____ Map No. ____ Indexed C. J. GALLI Date FEB 15 72

76-L-298 CE 307 5-66

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F. B. 2483 Pg. 158 | Job No. 0021.64 Division No. 11 Notes Red Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date No. X-Sec.
Survey by DREW Notes SIEMANN 1-21-72 Notes CHK. BLANCHARD Checked
Indexed G. J. GALLI Date Date 2-4-72 Date No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "D" | |
|---|---|---|---|---|---|---|
| | | 190 164 | | | | |
| T. P. | 7362 | 193 161 | 4365 | 185 799 | | |
| " | 9672 | 202 253 | 0580 | 192581 | | |
| " | 10154 | 211 967 | 0440 | 201 813 | | |
| " | 10177 | 221 844 | 0300 | 211 667 | | |
| " | 6843 | 228 344 | 0343 | 221501 | | |
| J-1 A | 11063 | 227 750 | 11657 | 216687 | J-1 A | MON. |
| T. P. | 9058 | 236 551 | 0257 | 227493 | | |
| " | 11784 | 247 966 | 0369 | 236182 | | |
| " | 10457 | 258 070 | 0353 | 247613 | | |
| " | 9129 | 266 747 | 0452 | 257618 | | |
| " | 10162 | 276 007 | 0902 | 265845 | | |
| " | 10219 | 285 769 | 0457 | 275550 | | |
| " | 9022 | 294 235 | 0556 | 285213 | | |
| BLAKESLEY | 11231 | 300 969 | 4497 | 289738 | BLAKESLEY | MON |
| T. P. | 6653 | 301 119 | 6503 | 294466 | | |
| " | 2127 | 291 470 | 11776 | 289343 | | |
| " | 1277 | 282 379 | 10368 | 281102 | | |
| " | 0398 | 275 304 | 7473 | 274906 | | |
| " | 11018 | 274 457 | 11865 | 263439 | | |
| " | 7963 | 281 829 | 0591 | 273866 | | |

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "D" | |
|---|---|---|---|---|---|---|
| | | 2~~84~~ 81 829 | | | CONT. | |
| T.P. | 10 876 | 29~~0~~ 2 162 | 0 543 | 2~~79~~ 81 286 | | |
| " | 7 096 | 29~~6~~ 8 798 | 0 460 | 2~~89~~ 91 702 | | |
| " | 11 331 | 309 296 | 0 833 | 29~~5~~ 7 965 | | |
| " | 2 130 | 30~~5~~ 7 272 | 4 154 | 305 142 | | |
| P-4 | 0 374 | 302 029 | 5 617 | ~~299~~ 301 655 | P-4 | C.E. MON. |
| T.P. | 0 486 | 291 242 | 11 273 | 280 756 | | |
| " | 0 606 | 280 696 | 11 152 | 280 090 | | |
| " | 1 271 | 270 126 | 11 841 | 268 855 | | |
| " | 0 954 | 259 678 | 11 402 | 258 724 | | |
| " | 0 691 | 249 148 | 11 221 | 248 457 | | |
| " | 0 683 | 238 166 | 11 665 | 237 483 | | |
| " | 1 041 | 227 479 | 11 728 | 226 438 | | |
| " | 0 877 | 216 913 | 11 443 | 216 036 | | |
| " | 0 891 | 206 333 | 11 471 | 205 442 | | |
| " | 0 860 | 195 444 | 11 749 | 194 584 | | |
| " | 0 558 | 185 735 | 10 267 | 185 177 | | |
| " | 0 442 | 175 055 | 11 122 | 174 613 | | |
| " | 6 927 | 16~~X~~ 73 630 | 8 352 | 166 703 | | |
| B.M. 34-18 | | | 5 126 | 168 504 | B.M. 34-18 | ELEV. 168.560 1970 PRECISE ADJ. |

Profile Notes Red ____ Plotted ____ Job No. 0021.64 Division No. 11 F.B. 2483 PG. 159
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Orig. BLANCHARD Checked ____ Survey by DREIER Notes SIEMANN Date 1-21-72
No. ____ Date FEB 24 72 Date ____ Map No. ____ Indexed C. J. GALLI Date FEB 15 72

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F. B. 2483 Pg. 160 | Job No. 0821.64 | Division No. 11 | Notes Red. | Plotted | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | No. | X-Sec.
Survey by DREHER | Notes SIEMANN 2-10-72 | Checked | No.
Indexed C. J. GALLI | Date | Date FEB 24 72 | Date

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| STATION | B. S. | H. I. | F. S. | ELEV. | | |
|---|---|---|---|---|---|---|
| B.M. 34-18 | 1702 | 170262 | | 168560 | B.M. 34-18 ELEV. 168,560 1970 PRECISE ADJ. | |
| T.P. | 0509 | 162224 | 8547 | 161715 | | |
| " | 4967 | 162832 | 4339 | 157885 | | |
| P-3 | 6719 | 164779 | 4792 | 158060 | P-3 L.T.&T. IN CURB | |
| T.P. | 5751 | 167045 | 3485 | 161294 | | |
| P-2 | 7049 | 170423 | 3671 | 163374 | P-2 L.T.&T. IN CURB | |
| TBM #31 | 5709 | 172849 | 3283 | 167140 | T.B.M. #31 L.&T. IN CTR DIVIDER. P.V.DR.S. @ ENTRANCE TO CHAPEL. | |
| T.P. | 7710 | 177838 | 2721 | 170128 | | |
| B.M. 34-19A | 10370 | 182991 | 5217 | 172621 | B.M. 34-19A ELEV. = 172.679 1970 PRECISE ADJ. | |
| T.P. | 9871 | 192343 | 0519 | 182472 | | |
| " | 11889 | 203932 | 0300 | 192043 | | |
| " | 11188 | 214777 | 0343 | 203589 | | |
| " | 10272 | 224308 | 0741 | 214036 | | |
| " | 9257 | 233215 | 0350 | 223958 | | |
| B.M. 34-20B | | | 0753 | 232462 | B.M. 34-20 B ELEV. = 232.451 1970 PRECISE ADJ | |

F. B. 2483 PG. 161

Profile No. | Notes Red | Plotted | Job No. 0021.64 | Division No. 11
Date | Date | Survey of Portuguese Bend Landslide
X-Sec. No. | Notes Checked BLANCHARD | Checked | Survey by Dreier Notes JMM Date 1-25-72
Date FEB 24 72 | Date | Map No. | Indexed C. J. GALLI Date FEB 15 72

# PORTUGUESE BEND LANDSLIDE

## Job No. 0021.64

## JAN. 1972 RELEVELING LINE "E"

DREIER
MALDONADO
SIEMANN
MCKNIGHT
OHASHI

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|

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F.B. 2483 Pg. 162 Job No. 0021.64 Division No. 11 Notes Red _____ Plotted _____ Profile
Survey of Portuguese Bend Landslide Date _____ No. _____
Survey by Dreier Notes Maldonado 1-25-72 Notes CHANCHARD Checked _____ X-Sec.
Indexed C. J. GALLI Date _____ Date 2-4-72 Date _____ No. _____

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "E" |
|---|---|---|---|---|---|
| BM 34-14A | 3995 | 235255 | | 231260 | BM 34-14A Elev. 231.260 1970 Precise Adj. P.V. DR. S. & Schooner Dr. N.W. Cor. U.S.C.&G.S. |
| BM 34-15A | 0517 | 231542 | 4230 | 231025 | B.M. 34-15A P.V. DRS & Y & T Harbor Dr. - Bt. SPK. in C6. |
| T.P. | 0248 | 220048 | 11742 | 219800 | |
| " | 2483 | 219787 | 8744 | 219304 | |
| " | 3077 | 210065 | 6799 | 206988 | |
| " | 0221 | 200992 | 9294 | 200758 | |
| " | 0247 | 189449 | 11790 | 189202 | |
| " | 1591 | 180611 | 10429 | 179020 | |
| K-10A | 3613 | 176403 | 7821 | 172790 | K-10A Bt. SPK. W. & T |
| K-10B | 5811 | 175490 | 6824 | 169579 | K-10B 2" I.P. & Bt SPK { 60.7 Ft. from K-10A; 41.7 Ft. from P.P. #10835 |
| K-10C | 3766 | 171966 | 7190 | 168200 | K-10C L. & T. |
| Bt. S.P.K. | 0679 | 168845 | 3800 | 168166 | Bt. SPK. (above K-10) |
| | | | | -0930 | Deep |
| K-10 | | | | 167236 | K-10 Mon. |
| K-9 | 8066 5988 | 167535 | 9396 | 159449 | K-9 3/4" I.P. & Tag. |
| K-9A | 8066 | 169545 | 3958 | 163557 | K-9A |
| T.P. | 2744 | 167034 | 5255 | 164290 | |
| K-9B | 5212 | 167019 | 5227 | 161807 | K-9B |
| TP | 4200 | 168489 | 2730 | 164289 | |
| " | 2960 | 165368 | 6081 | 162408 | |
| K-8A | 0666 | 158646 | 7388 | 158980 | K-8A Bt. SPK W. & T. |

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE E | |
|---|---|---|---|---|---|---|
| K-8A | 0488 | 158468 | | 157980 | K-8A B.S.PK. W.&T | |
| K-8B | 1090 | 156697 | 2861 | 155607 | K-8B 2" I.P. W.&B.S.PK | |
| T.P. | 8477 | 148585 | 8589 | 148108 | | |
| " | 0221 | 137745 | 11649 | 136936 | | |
| " | 0230 | 126417 | 10970 | 126187 | | |
| " | 0480 | 115917 | 10980 | 115437 | | |
| W-3 | 4323 | 113533 | 6707 | 109210 | W-3 Mon. | |
| T.P | 10650 | 123900 | 0283 | 113250 | | |
| " | 11355 | 134838 | 0417 | 123483 | | |
| " | 3830 | 137583 | 1085 | 133753 | | 1-25-72 |
| K-5 | 1718 | 137738 | 1563 | 136020 | K-5 Mon. | |
| T.P. | 0420 | 128069 | 10089 | 127649 | | |
| " | 1535 | 119169 | 10435 | 117634 | | 1-31-72 |
| " | 0921 | 108280 | 11810 | 107359 | | |
| K-5 AUX | 0449 | 102191 | 6538 | 101742 | K-5 AUX | |
| T.P | 0589 | 91998 | 10782 | 91409 | | |
| " | 0637 | 81518 | 11117 | 80881 | | |
| " | 0230 | 70321 | 11427 | 70091 | | |
| | 1121 | 59912 | 11530 | 58791 | | |
| | 4889 | 54077 | 10724 | 49188 | | |
| | " | | 7511 | 46566 | | |

CONT.

Profile Notes Red Plotted Job No. 0021.64 Division No. H
No. Date Date Survey of Portuguese Bend Landslide
X-Sec. Notes CHANCHARD Checked Survey by Dreier Notes Date 1-31-72
No. Date FEB 24 72 Date Map No. Indexed C. J. GALLI Date FEB 15 72

F. B. 2483 PG. 163

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE E | |
|---|---|---|---|---|---|---|
| T.P. CONT. | 2860 | 51 426 | | 46 566 | | |
| T.B.M. #28 | 7190 | 54 748 | 3868 | 45 558 | T.B.M. 28 | B.SPK |
| K-3A | 1990 | 50 408 | 6330 | 46 418 | K-3A | MON. |
| | 1296 | 39 863 | 11 841 | 36 567 | | |
| | 8585 | 36 501 | 9947 | 27 916 | | |
| | 10 800 | 46 768 | 0533 | 35 968 | | |
| | 7000 | 50 727 | 3 041 | 43 727 | | |
| K-2A | 2500 | 50399 | 2828 | 47 899 | K-2A | PIPE |
| | 0220 | 40 816 | 9803 | 40 596 | | |
| | 5642 | 36 076 | 10 382 | 30 434 | | |
| | 10 828 | 42 265 | 4 639 | 31 437 | | |
| | 10362 | 52 378 | 0 249 | 42 016 | | |
| | 8202 | 54 350 | 6 230 | 46 148 | | |
| T.P. | 0329 | 49 559 | 5120 | 49 230 | | |
| | 0540 | 38361 | 11 738 | 37 821 | | |
| | 0230 | 29854 | 8737 | 29 624 | | |
| | 0180 | 19 125 | 10909 | 18945 | | |
| | 6580 | 19 154 | 6 551 | 12 574 | SPK | |
| | 6196 | 18 115 | 7 235 | 11 919 | | |
| | 4810 | 18 275 | 4650 | 13 465 | | |
| RB 8 | | | 10 141 | 8 084 | P.B 8 | SPK IN GROIN ELEV. = 8.03 |

F.B. 2483 PG. 164

Job No. 0021.64 Division No. 11 Notes Red Plotted Profile

Survey of Portuguese Bend Landslide Date Date No.

Survey by Dreier Notes Maldonado 1-31-72 Notes BLANCHARD Checked X-Sec.

Indexed C. J. GALLI Date REIER Date FEB 24 72 Date No.

F. B. 2483 PG. 165

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 0021.64 Division No. 11

X-Sec. No. ____ Notes BLANCHARD FEB 2 '72 Date ____ Checked ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE

Survey by DREIER Notes SIGMAN Date 2-8-72

Map No. ____ Indexed C. J. GALLI Date FEB 15 '72

# PORTUGUESE BEND LANDSLIDE
# JOB NO. 0021.64

## FEB. 1972 RELEVELING LINE A

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| | | | | |

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F.B. 2483 PG. 166 | Job No. 0821.64 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of PORTUGUESE BEND LANDSLIDE Date ____ No. ____ X-Sec. ____
Survey by DEELEY Notes SIEMANN 2-8-72 Checked BLANCHARD Date ____ No. ____
Indexed C. J. GALLI Date FEB 24 72

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "A" | |
|---|---|---|---|---|---|---|
| B.M. 50-7 | 4649 | 1206096 | | 1201447 | B.M. 50-7 | ELEV. = 1201.447 1970 PRECISE ADJ. CRENSHAW BLVD. & CREST RD. NE COR. |
| T.P. | 0660 | 1197004 | 9752 | 1196344 | | |
| " | 0722 | 1186045 | 11681 | 1185323 | | |
| " | 0301 | 1175014 | 11332 | 1174713 | | |
| " | 1422 | 1166284 | 9152 | 1165862 | | |
| B.M. C-1 | 10274 | 1170911 | 6647 | 1159637 | B.M. C-1 | BT. SPK. IN ED. CO. M.H. |
| T.P. | 10063 | 1178755 | 2219 | 1168692 | | |
| " | 8118 | 1186434 | 0439 | 1178316 | | |
| " | 4602 | 1187128 | 3908 | 1182526 | | |
| B.M. 50-8 | 2070 | 1184289 | 4909 | 1182219 | B.M. 50-8 MON. | ELEV. = 1182.205 1970 PRECISE. ADJ. |
| T.P. | 0888 | 1176487 | 8690 | 1175599 | | |
| " | 0931 | 1169557 | 7861 | 1168626 | | |
| " | 0568 | 1160084 | 10041 | 1159576 | | |
| " | 0505 | 1151558 | 9031 | 1151053 | | |
| " | 0311 | 1142363 | 9506 | 1142052 | | |
| " | 0453 | 1132295 | 10521 | 1131842 | | |
| " | 0617 | 1123461 | 9451 | 1122844 | | |
| " | 0452 | 1114754 | 9159 | 1114302 | | |
| " | 0859 | 1105962 | 9651 | 1105103 | | |
| " | 0899 | 1198203 | 8658 | 1097304 | | |
| B.M. C-2 | | | 6900 | 1091303 | B.M. C-2 | |

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Profile Notes Red ____ Plotted ____ Job No. 0021.64 Division No. 11 F. B. 2483 Pg. 167
No. X-Sec. Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
No. ____ Notes Ch. BLANCHARD Checked ____ Survey by DREIER Notes SIEMANN Date 2-8-72
Date FEB 2 & 72 Date ____ Map No. ____ Indexed C. J. GALLI Date FEB 15 72

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A CONT. | |
|---|---|---|---|---|---|---|
| B.M. C-2 | 0266 | 1091 569 | | 1091 303 | B.M. C-2 | |
| T.P. | 0402 | 1083773 | 8198 | 1083371 | | |
| " | 0279 | 1075498 | 8554 | 1075219 | | |
| " | 0217 | 1066823 | 8892 | 1066606 | | |
| " | 0373 | 1055502 | 11694 | 1055129 | | |
| " | 0523 | 1046281 | 9744 | 1045758 | | |
| " | 0321 | 1037743 | 8859 | 1037422 | | |
| " | 0596 | 1028966 | 9373 | 1028370 | | |
| " | 0657 | 1022232 | 7391 | 1021575 | | |
| " | 2774 | 1016546 | 8460 | 1013772 | | |
| " | 3921 | 1009252 | 11215 | 1005331 | | |
| B.M. 50-9 | 10472 | 1009951 | 9773 | 999479 | B.M. 50-9 C.E. MON. ELEV. = 999.460 1970 PRECISE ADJ. | |
| T.P. | 0391 | 999683 | 10659 | 999292 | | |
| " | 0917 | 989203 | 11397 | 988286 | | |
| " | 0337 | 980662 | 8878 | 980325 | | |
| " | 0409 | 970406 | 10671 | 969991 | | |
| " | 0700 | 961449 | 9651 | 960749 | | |
| " | 2792 | 953358 | 10883 | 950566 | | |
| T.B.M. 11 | 1633 | 948975 | 6016 ~~5384~~ 342 | 947774 | T.B.M. 11 B.M. 50-9A ELEV. = 947.303 1970 PRECISE ADJ. P.K. SPK. IN ROCK WALL | |
| T.P. | 3138 | 941609 | 10504 | 938471 | | |
| B.M. Z-1 | | | 6530 | 935079 | B.M. Z-1 MON. | |

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A |
|---|---|---|---|---|---|
| B.M. Z-1 | 0210 | 935289 | | 935079 | B.M. Z-1 |
| T.P. | 0230 | 925797 | 9722 | 925567 | |
| " | 0569 | 915838 | 10528 | 915269 | |
| " | 1358 | 907694 | 9502 | 906336 | |
| " | 0323 | 898859 | 9158 | 898536 | |
| " | 0346 | 889333 | 9872 | 888987 | |
| " | 0388 | 879754 | 9967 | 879366 | |
| " | 0444 | 870969 | 9229 | 870525 | |
| " | 2970 | 865502 | 8437 | 862532 | |
| B.M. 50-10 | 4095 | 862320 | 7277 | 858225 | B.M. 50-10 ELEV. = 858.162 1970 PRECISE ADJ. |
| T.P. | 0378 | 853342 | 9356 | 852964 | |
| " | 0410 | 843280 | 10472 | 842870 | |
| " | 0499 | 834361 | 9398 | 833882 | |
| " | 0417 | 825525 | 9253 | 825108 | |
| " | 0331 | 816163 | 9693 | 815832 | |
| " | 0351 | 806440 | 10074 | 806089 | |
| " | 1808 | 798290 | 9958 | 796482 | |
| B.M. Y-4 | 8284 | 801926 | 4648 | 793642 | B.M. Y-4 BT. SPK. IN 2" I.P. |
| T.P. | 0228 | 790257 | 11897 | 790029 | |
| " | 4208 | 784606 | 9859 | 780398 | |
| T.B.M. #12 | | | 7373 | 777233 | T.B.M. #12 B.M. 50-10A ELEV. = 777.183 1970 PRECISE ADJ. |

F. B. 2483 PG. 168
Job No. 8021.64 Division No. 11 Notes Red Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date No.
Survey by DREIER Notes SIEMANN 2-8-72 Notes Chk'd. BLANCHARD Checked X-Sec.
Indexed C. J. GALLI Date Date 2-4-72 Date No.

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Profile Notes Red_____ Plotted_____ Job No. 0021.64 Division No. 11
No._____ Date_____ Date_____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes BLANCHARD Checked_____ Survey by DREIER Notes SIEMM Date 2-8-72
No._____ Date FEB 24 72 Date_____ Map No._____ Indexed C.J. GALLI Date FEB 15 72

F.B. 2483 PG. 169

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A CONT. | |
|---|---|---|---|---|---|---|
| T.B.M. # 12 | 8519 | 785752 | | 777233 | T.B.M. # 12 | |
| T.P. | 0429 | 774263 | 11918 | 773834 | | |
| " | 0930 | 765423 | 9770 | 764493 | | |
| " | 0313 | 755184 | 10552 | 754871 | | |
| " | 0366 | 744250 | 11300 | 743884 | | |
| " | 0290 | 734331 | 10209 | 734041 | | |
| " | 0479 | 725129 | 9681 | 724650 | | |
| " | 0242 | 715580 | 9791 | 715338 | | |
| " | 0544 | 705446 | 10678 | 704902 | | |
| " | 0412 | 697042 | 8816 | 696630 | | |
| " | 0437 | 687472 | 10007 | 687035 | | |
| " | 1573 | 678215 | 10830 | 676642 | | |
| T.B.M. # 13 | 0208 | 676378 | 2045 | 676170 | BT. SPK. IN ROCK WALL T.B.M. # 13 ELEV. = 676.097 1970 PRECISE ADJ. | |
| T.P. | 0823 | 667482 | 9719 | 666659 | | |
| " | 0339 | 656797 | 11024 | 656458 | | |
| B.M. 50 - 11 | 0578 | 648293 | 9082 | 647715 | B.M. 50 - 11 ELEV. 647.634 1970 PRECISE ADJ. | |
| T.P. | 0517 | 637254 | 11556 | 636737 | | |
| " | 0607 | 626354 | 11507 | 625747 | | |
| " | 0744 | 615980 | 11118 | 615236 | | |
| " | 0707 | 605204 | 11483 | 604497 | | |
| " | | | 11610 | 593594 | | |

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Survey of PORTUGUESE BEND LANDSLIDE Date Date No. X-Sec.
Survey by DEGLER Notes SIEMANN 2-8-72 Checked BLANCHARD Chkd. FEB 24 '72 No.
Indexed C. J. GALLI Date Date

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A | |
|---|---|---|---|---|---|---|
| T.P. | 0307 | 593901 | | 593594 | | |
| " | 0263 | 582848 | 11316 | 582585 | | |
| " | 0490 | 571429 | 11909 | 570939 | | |
| " | 0901 | 560837 | 11493 | 559936 | | |
| " | 0434 | 549833 | 11438 | 549399 | | |
| " | 0360 | 539115 | 11078 | 538755 | | |
| " | 0295 | 527810 | 11600 | 527515 | | |
| " | 0217 | 516835 | 11192 | 516618 | | |
| " | 0599 | 506047 | 11387 | 505448 | | |
| " | 0540 | 495180 | 11407 | 494640 | | |
| " | 0746 | 483993 | 11933 | 483247 | | |
| " | 4968 | 479404 | 9557 | 474436 | | |
| B.M. TANK | 5163 | 480579 | 3988 | 475416 | TANK BT. SPK. | |
| TANK #2 | 2540 | 477596 | 5523 | 475056 | TANK # 2 | |
| T.P. | 1703 | 467388 | 11911 | 465685 | | |
| " | 4591 | 461109 | 10870 | 456518 | | |
| " | 0384 | 450027 | 11466 | 449643 | | |
| " | 0284 | 438322 | 11989 | 438038 | | |
| | 0760 | 433796 | 5286 | 433036 | | |
| | 0327 | 422575 | 11548 | 422248 | | |
| | | | 11369 | 411206 | | |

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A |
|---|---|---|---|---|---|
| T.P. | 0320 | 411 526 | | 411 206 | |
| | 0594 | 400970 | 11150 | 400376 | |
| | 2466 | 391 847 | 11 589 | 389381 | |
| SB 2 | 8 352 | 391 741 | 8458 | 383 389 | S.B. 2 |
| S.B. 1 | 3433 | 390273 | 4901 | 386 840 | SB. 1 |
| T.P. | 8119 | 396801 | 1591 | 388682 | |
| " | 5140 | 398940 | 3001 | 393800 | |
| P.T. 1 | 0998 | 393 660 | 6278 | 392662 | P.T. #1 BT. SPK. W. &T. |
| B1- B | 7 ~~8~~567 | 391829 | 9398 | 38~~3~~4262 | B-1B 2" I.P. L.E. TAG |
| T.P. | 1050 | 390208 | 2671 | 389158 | |
| " | 2552 | 384550 | 8210 | 381998 | |
| " | 0366 | 373 666 | 11 250 | 373300 | |
| " | 0336 | 365 550 | 8452 | 365214 | |
| " | 0471 | 356 309 | 9712 | 355838 | |
| " | 0267 | 344 985 | 11 591 | 344718 | |
| " | 2299 | 337 074 | 10210 | 334775 | |
| " | 10652 | 345477 | 2249 | 334825 | |
| D-2 | 7 708 | 352797 | 0388 | 34~~4~~5089 | D-2 MON. |
| T.P. | 8 003 | 359973 | 0827 | 351970 | |
| " | 11 122 | 370385 | 0710 | 359263 | |
| DAVIS | | | 0578 | 3~~[illegible]~~69 807 | DAVIS MON |

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No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Checked BLANCHARD Checked ____ Survey by DREIER Notes SIEMAN Date 2-9-72
No. ____ Date FEB 2 6 72 Date ____ Map No. ____ Indexed C. J. GALLI Date FEB 15 72

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Survey of PORTUGUESE BEND LAND SLIDE Date No.
Survey by DREIER Notes SIEMANN 2-8-72 Notes Ck. BLANCHARD Checked X-Sec.
Indexed C. J. GALLI Date Date Feb 24 72 Date No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE A | |
|---|---|---|---|---|---|---|
| DAVIS | 0900 | 370707 | | 369807 | DAVIS | |
| TP | 0435 | 359442 | 11700 | 359007 | | |
| " | 0280 | 349313 | 10409 | 349033 | | |
| " | 0547 | 338982 | 10878 | 338435 | | |
| " | 1918 | 329671 | 10229 | 327753 | | |
| A-4 | 6971 | 329340 | 7302 | 322369 | | |
| T.P. | 0782 | 328761 | 1361 | 327979 | | |
| " | 1825 | 322453 | 8133 | 320628 | | |
| " | 0542 | 315985 | 7010 | 315443 | | |
| A-3A | 11219 | 319794 | 7410 | 308575 | A-3A | |
| T.P. | 11809 | 330771 | 0832 | 318962 | | |
| " | 11499 | 341971 | 0299 | 330472 | | |
| " | 11174 | 352882 | 0263 | 341708 | | |
| RADIAL # 1 | 5565 | 352477 | 5970 | 346912 | RADIAL # 1 | |
| T.P. | 0528 | 343500 | 9505 | 342972 | | |
| " | 2331 | 334909 | 10922 | 332578 | | |
| B.M. 50-12 | 9188 | 337997 | 6100 | 328809 | | |
| " | 0361 | 327715 | 10643 | 327354 | | |
| " | 0245 | 316410 | 11550 | 316165 | | |
| " | 0503 | 306669 | 10249 | 306166 | | |
| " | 0968 | 297437 | 10200 | 296469 | | |

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| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "A" cont. | |
|---|---|---|---|---|---|---|
| | | 297 437 | | | | |
| TP | 0392 | 286379 | 11450 | 285987 | | |
| " | 4818 | 279447 | 11750 | 274629 | | |
| " | 0252 | 276932 | 3267 | 276180 | — B+S Pk. in C. Pole | |
| " | 0270 | 267340 | 9862 | 267070 | | |
| " | 0272 | 256612 | 11000 | 256340 | | |
| " | 0440 | 245721 | 11331 | 245281 | | |
| " | 0521 | 234464 | 11778 | 233943 | | |
| " | 0425 | 223249 | 11640 | 222824 | | |
| " | 0331 | 212012 | 11568 | 211681 | | |
| " | 0411 | 200663 | 11760 | 200252 | | |
| " | 0251 | 189135 | 11779 | 188884 | | |
| " | 0490 | 178410 | 11215 | 177920 | | |
| " | 11580 | 189500 | 0490 | 177920 | | |
| " | 11969 | 201171 | 0298 | 189202 | | |
| " | 4220 | 201530 | 3861 | 197310 | | |
| " | 7943 | 208732 | 0741 | 200789 | | |
| | 6800 | 211561 | 3971 | 204761 | | |
| BM 50-13 | | | 3230 | 208331 | BM 50-13 Elev. 208.157 1970 Precise | |

Profile Notes Red ____ Plotted ____ Job No. 22.64 Division No. 11
No. ____ Date ____ Survey of Portuguese Bend Landslide
X-Sec. ____ Date ____ Checked ____ Survey by Dreier Notes J.M. Date 2-9-72
No. ____ Notes CHANCHARD Date FEB 24 72 Date ____ Map No. ____ Indexed C. J. GALLI Date FEB 15 72

F. B. 2483 Pg. 173

| | |
|---|---|
| Notes Ck'd by | Survey of PORTUGUESE BEND |
| Map No. | JN 0021.64 Tape Std °F |
| Office Work | Surveyed by G.E. DREIER |
| Checked | Notes Date 1-27-72 |
| Date | Indexed C. J. GALLI FEB 15 '72 |

F. B. 2483 PG. 175

# JOB NO. 0021.64

# PORTUGUESE BEND LANDSLIDE

## ANGULAR POSITION CHECK OF "WAYFARER"

DREIER
MALDONADO
SIEMANN
OHASHI
McKNIGHT

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend this side of this line.

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

76F309S CE#310 3-68

F. B. 2483 PG 176

1-27-72

| | | | |
|---|---|---|---|
| S.P.H. G-6 | 59° | 22' | 57.64 |
| " E-8A | 31 | 14 | 05.26 |
| WAYFARER | 89 | 22 | 58.45 |
| | 180 | 00 | 01.35 ✓ |

ANGLES RECORDED IN F.B.G. 1362-

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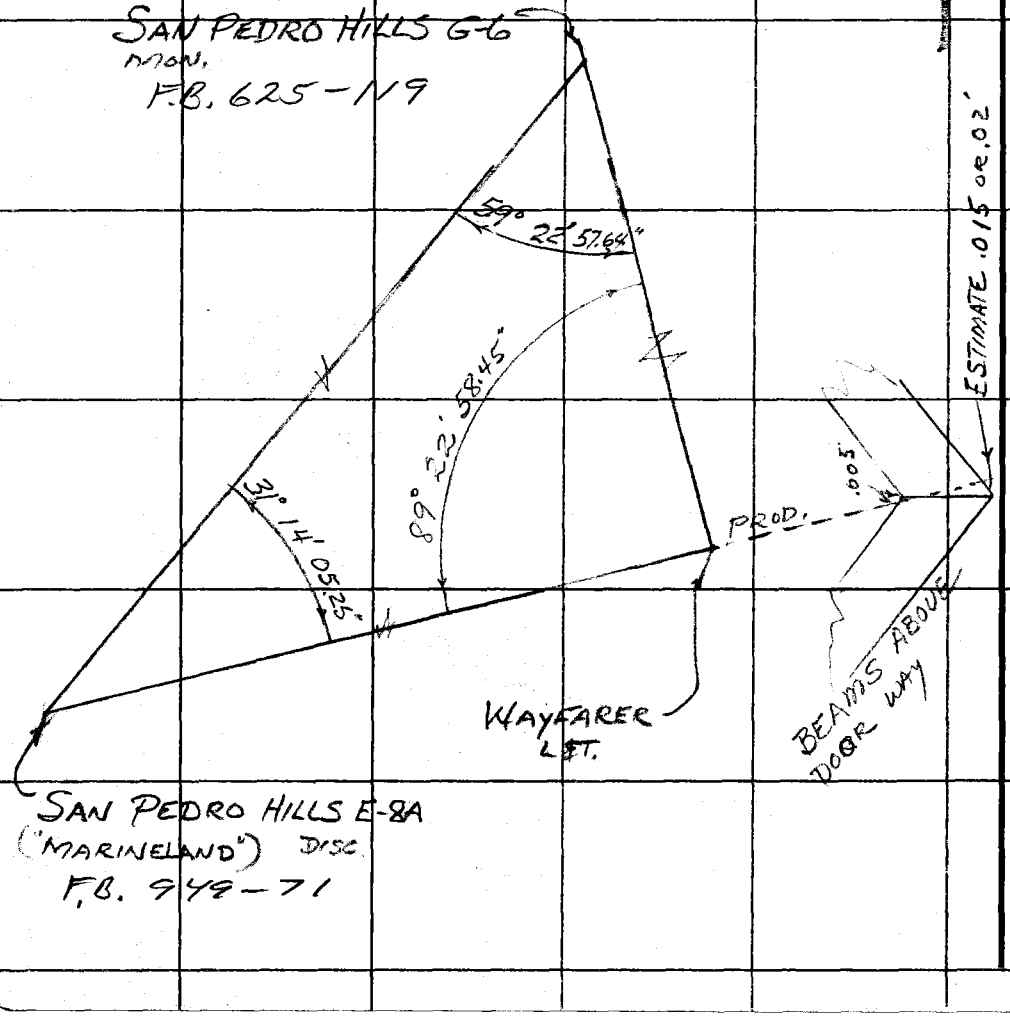

| | |
|---|---|
| Notes Ck'd by | Survey of PORTUGUESE BEND |
| Map No. | JN 0021.64 Tape Std °F |
| Office Work | Surveyed by G.E. DREIER |
| Checked | Notes Date 1-28-72 |
| Date | Indexed C. J. GALLI FEB 15 '72 |

F. B. 2483 PG. 177

0021.64

# PORTUGUESE BEND LANDSLIDE

## REDETERMINATION OF POSITION OF K-5

DREIER
MALDONADO
SIEMANN
MCKNIGHT
OHASHI

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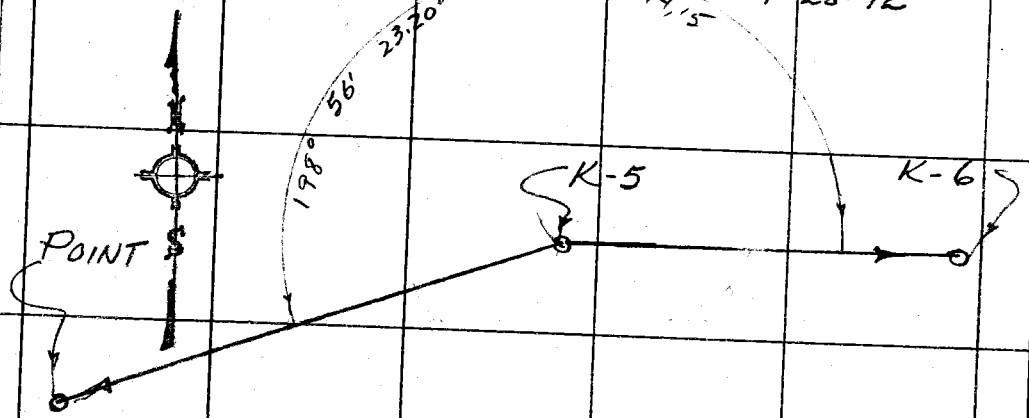
76F309S CE#310 3-68

F. B 2483 PG 178

F.B.6.1362-14,15

1-28-72




H.P. 380A #2

ELECTRONIC MEAS. DIST.

TEMP. = 60° F BAR. PRES. = 30.4"

K-5 TO POINT

| INSTR. H.I. | REFL. H.I | SLOPE DIST. | VERTICAL ANGLE |
|---|---|---|---|
| 4.86 | 4.61 | 2863.275 | F.B.6.1362-14 |
| " | " | 2863.255 | -0° 12' 48.2" |
| " | " | 2863.405 - 0.14 ECC. = 2863.265 | |

K-5 TO K-6

| INSTR. H.I | REFLEC. H.I | SLOPE DIST. |
|---|---|---|
| 4.86 | 4.35 | 496.505 |
| | | 496.41 + 0.10 ECC. = 496.51 |

ELEV.

K-5 = 136.020 PER F.B. 2483-163

K-6 = 236.695 PER F.B. 2483-81

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| | |
|---|---|
| Notes Ck'd by | Survey of PORTUGUESE BEND |
| Map No. | JN 0021.64 Tape Std °F |
| Office Work | Surveyed by G.E.DREIER |
| Checked | Notes Date 8-3-72 |
| Date | Indexed T. M. PALMERI AUG 16 '72 |

F. B. 2483 Pg. 179

JOB NO. 0021.64

# PORTUGUESE BEND LANDSLIDE

## ANGULAR POSITION CHECK OF "WAYFARER"

DREIER
MALDONADO
GOBLE
SIEMANN
OHASHI

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-68

F. B. 2483 PG 180

| | | | | |
|---|---|---|---|---|
| S.P.H. G-6 | 59° | 22' | 56.69" | ANGLES RECORDED IN F.B.G. |
| S.P.H E-8A | 31 | 14 | 07.44 | 1361-31 TO 37 |
| WAYFARER | 89 | 22 | 56.12 | |
| | 180° | 00' | 00.25" ✓ | |

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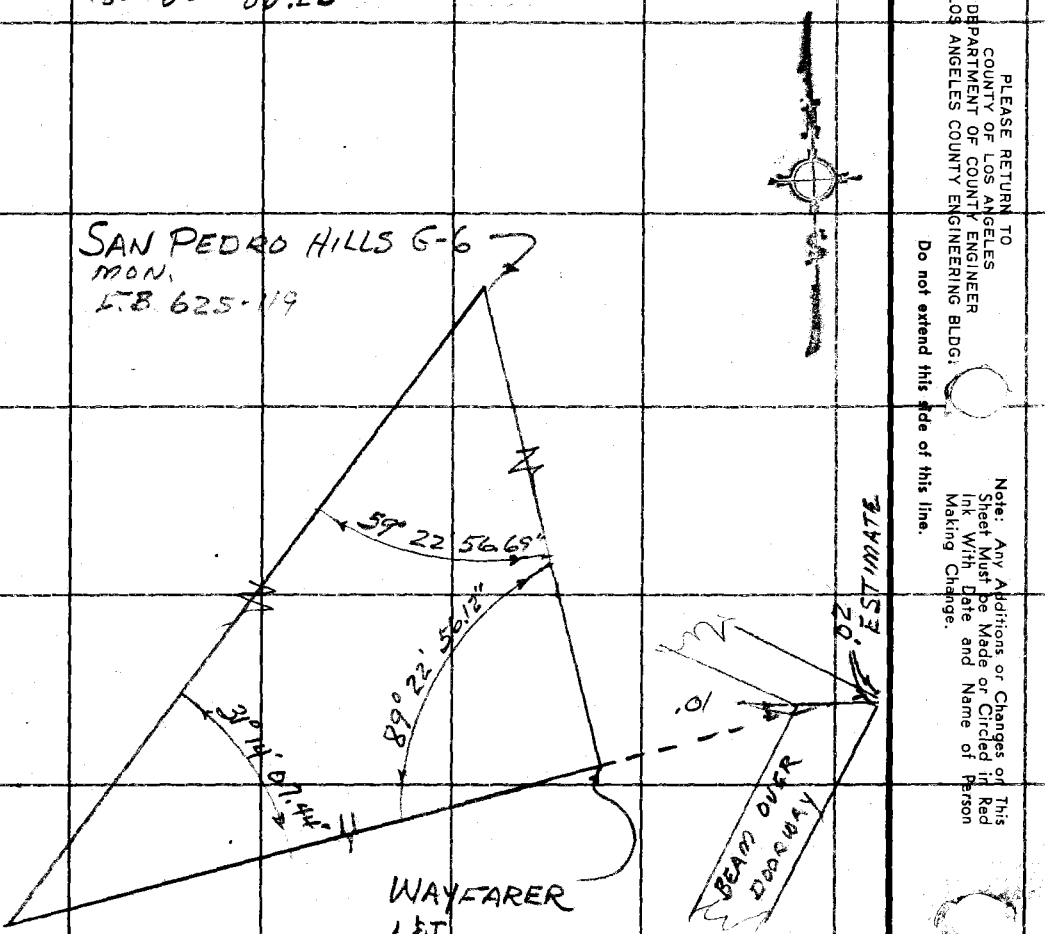


SAN PEDRO HILLS E-8A
(MARINELAND) DISC
F.B. 949-71

F.B. 2483 Pg. 181

INST. NO. 76716

NOTES BY I. M. PALMERI DATE 7-31-72 TIME

INDEXED DATE AUG 16 '72 NOTES CHKD R6D ROD NO. 171348 DATE 8-17-72

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Do not extend notes this side of this line.

| STATION | BACKSIGHT | | | FORESIGHT | | | DESCRIPTION AND REMARKS |
|---|---|---|---|---|---|---|---|
| | RIGHT MIC. | LEFT. | STADIA | RIGHT MIC. | LEFT. | STADIA | FROM TO |
| | | | | | | | JOB NO. 0021.64 |
| | | | | | | | PORTUGUESE BEND LANDSLIDE |
| | | | | | | | AUG. 1972 |
| | | | | | | | RELEVELING LINE "A" |
| | | | | | | | DREIER |
| | | | | | | | MALDONADO |
| | | | | | | | GOBLE |
| | | | | | | | SIEMANN |
| | | | | | | | OHASH #1 |

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**Do not extend notes this side of this line.**

| STATION | BACKSIGHT RIGHT | MIC. | LEFT. | STADIA | FORESIGHT RIGHT | MIC. | LEFT. | STADIA | DESCRIPTION AND REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | FROM B.M. 50-7 TO 1 |
| B.M. 50-7 | | | | | | | | | ELEV. FT. B.M. 50-7 |
| 1 | 140 | 918 | 441 5 | 162 118 44 | 296 | 879 | 597 5 | 296 274 44 | 1201.447 CRENSHAW BLVD & CREST RD. SEE F.B. |
| 2 | 8 | 851 | 309 5 | 120 28 24 / 68 | 299 | 446 | 600 5 | 299 289 20 / 64 | |
| 3 | 14 | 252 | 315 5 | 23 5 18 / 86 | 297 | 908 | 598 5 | 307 287 20 / 84 | LINE "A" |
| 4 | 15 | 413 | 316 5 | 23 7 16 / 102 | 294 | 410 | 595 5 | 302 286 16 / 100 | π = MALDONADO |
| 5 | 17 | 461 | 318 5 | 27 7 20 / 122 | 205 | 589 | 506 5 | 218 192 26 / 126 | |
| 6 | 147 | 282 | 448 5 | 169 125 44 / 166 | 193 | 072 | 494 5 | 213 173 40 / 166 | - 40.785 |
| B.M. C-1 | | | | | | | | 166 | B.M. C-1 |
| | 344 | 177 | | | 1587 | 304 | | 332 | CRENSHAW BLVD. & |
| | | | | | 344 | 177 | | | 1160.662 Whitley Collins DR. |
| | | | | | - 243 | 127 | | | |
| B.M. C-1 | | | | | | | | | B.M. C-1 |
| 1 | 266 | 443 | 567 5 | 287 245 42 | 76 | 078 | 377 5 | 96 56 40 | |
| 2 | 276 | 341 | 577 5 | 301 251 50 / 92 | 10 | 082 | 311 5 | 38 10 56 / 96 | +21.557 1135.647 478.596 +657.051 |
| 3 | 272 | 130 | 573 5 | 296 248 48 / 140 | 92 | 081 | 393 5 | 115 69 46 / 142 | |
| 4 | 174 | 218 | 425 5 | 192 156 36 / 176 | 174 | 384 | 455 5 | 172 136 36 / 178 | B.M. 50-8 |
| 5 | 146 | 515 | 447 5 | 154 138 16 / 192 | 145 | 971 | 446 5 | 152 138 14 / 192 | CRENSHAW SEACRE |
| B.M. 50-8 | 135 | 647 | | | 478 | 596 | | | 1182.219 SEE |

T=94°

WEATHER HAZY SUN INST. NO 96716

TIME 10:30 TO ROD NO 1713 ACB

NOTES CHKD RGB DATE 8-17-72

JOB NO 0021.64

SURVEY OF PORTUGUESE BEND LANDSLIDE

SURVEY BY DREIER NOTES SIGMANN 7-31-72

INDEXED T. M. PALMERI DATE

483 PG. 182

76P526 CE # 308 3-61

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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TO THIS SHEET MUST BE MADE OR
CANCELLED IN RED INK, WITH DATE AND
NAME OF PERSON MAKING CHANGE

Do not extend notes this side of this line.

JOB NO. ~~0301.02~~ 0021.64 SURVEY OF L.A. CO. PRECISE LEVEL NET
SURVEY BY G.E. DREIER WEATHER HAZY SUN INST. NO 26716
NOTES BY SIEMANN DATE 7-31-72 TIME 11:30 ROD NO 17134
INDEXED J.M. PALMERI DATE AUG 16 '72 NOTES CHKD [illegible] DATE 8-17-72
T= 94°
F.B. 2483 Pg. 183

| STATION | BACKSIGHT | | | | FORESIGHT | | | | DESCRIPTION AND REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | RIGHT | MIC. | LEFT. | STADIA | RIGHT | MIC. | LEFT. | STADIA | FROM 50-8 TO C-2 |
| B.M. 50-8 | | | | | | | | | ELEV. AT B.M. 50-8 |
| 1 | 82 | 406 | 383 5 | 106 58 48 | 253 | 369 | 554 5 | 278 22850 | 1182.219 CRENSHAW BLVD. E. OF SEACREST DR. |
| 2 | 45 | 022 | 346 5 | 72 18 54 | 272 | 659 | 573 5 | 301 243 58 | SEE F.B. |
| 3 | 94 | 750 | 395 5 | 111 77 34 | 289 | 503 | 590 5 | 306 272 34 | |
| 4 | 42 | 897 | 343 5 | 53 31 22 | 281 | 742 | 582 5 | 292 270 22 | LINE "A" |
| 5 | 44 | 379 | 345 5 | 54 34 20 | 287 | 772 | 588 5 | 296 278 18 | T = MALDONADO |
| 6 | 8 | 984 | 309 5½ | 18 8 20 | 298 | 553 | 599 5 | 309 289 20 | |
| 7 | 31 | 380 | 332 5 | 37 25 12 | 301 | 622 | 602 5 | 301 293 16 | |
| 8 | 49 | 898 | 350 5 | 54 44 10 | 258 | 487 | 559 5 | 263 253 10 | |
| 9 | 25 | 053 | 326 5 | 32 18 14 | 271 | 976 | 572 5 | 277 265 12 | |
| 10 | 14 | 852 | 315 5 | 21 7 14 | 298 | 473 | 599 5 | 306 290 16 | |
| 11 | 23 | 482 | 324 5 | 29 17 12 | 276 | 882 | 577 5 | 282 270 12 | |
| 12 | 26 | 381 | 327 5 | 35 17 18 | 169 | 696 | 470 5 | 174 164 10 | 268 - 90,900 |
| | | | | 278 | | | | 278 | |
| B.M. C-2 | | | | | | | | 278 | 10/31/72 B.M. C-2 |
| | 489 | 484 | 1 | | 3260 | 134 | | 550 | BT. SPK-[illegible] IN LG. ROCK. CRENSHAW BLVD. 0.4 MI. E. OF B.M. 50-8 |
| | | | | | 489 | 484 | 1 | | |
| | | | | | -2770 | 650 | | | |

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F.B. 2483 Pg. 184 JOB NO. 6021.64 T-102 D

SURVEY OF Traverse Bearing Lines Line "A" INST. NO. 96716

SURVEY BY Staff & Crew NOTES Digital Planimeter ROD NO. 13448

INDEXED J. M. PALMERI DATE WEATHER Sunny 80's TIME 1:10 to 1:50 NOTES CHKD RO DATE 8-17-72

| STATION | BACKSIGHT RIGHT MIC. | BACKSIGHT LEFT. | BACKSIGHT STADIA | FORESIGHT RIGHT MIC. | FORESIGHT LEFT. | FORESIGHT STADIA | LINE "A" DESCRIPTION AND REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | FROM BM C-2 TO BM 50-9 |
| BM C-2 | | | | | | | BM C-2 |
| 1 | 16922 | 317 5 | 21 / 11 / 10 | 281 193 | 582 5 | 288 / 274 / 14 | RH SPK. in Lg. Rock |
| 2 | 11 232 | 312 5 | 18 / 4 / 14 | 289 653 | 590 5 | 296 / 282 / 14 | Crenshaw Blvd. 0.4 mi. E. of 109+319 BM 50-8 |
| 3 | 11 347 | 312 5 | 19 / 3 / 16 | 281 193 | 582 5 | 290 / 272 / 18 | 24 / 28 |
| 4 | 8 767 | 309 5 | 17 / 8 ½ / 18 | 300 282 | 601 5 | 300 / 292 ½ / 16 | 40 / 46 LINE "A" |
| 5 | 8 772 | 309 5 | 17 ½ / 8 ½ / 18 | 298 507 | 599 5 | 298 / 289 ½ / 18 | 58 / 62 T. Goble |
| 6 | 7 905 | 308 5 | 15 ½ / 7 ½ / 16 | 290 512 | 591 5 | 298 / 282 / 16 | 76 / 80 |
| 7 | 14 703 | 315 5 | 23 / 5 / 18 | 296 447 | 597 5 | 296 ½ / 287 ½ / 18 | 92 / 96 |
| 8 | 14 447 | 315 5 | 25 / 3 / 22 | 279 137 | 580 5 | 291 / 267 / 24 | 110 / 114 |
| 9 | 37 053 | 338 5 | 48 / 26 / 22 | 263 918 | 564 5 | 274 / 252 / 22 | 132 / 138 |
| 10 | 78 977 | 379 5 | 83 / 73 / 10 | 274 393 | 575 5 | 279 / 269 / 10 | 154 / 160 |
| 11 | 59 442 | 360 5 | 62 / 56 / 6 | 214 538 | 515 5 | 217 / 211 / 6 | 164 / 170 -91,870 |
| | | | 170 | | | 176 / 170 | |
| | 269 567 | | | 3069 773 / 269 567 | | 346 | 999,449 BM 50-9 Crenshaw Blvd. Opposite Water Tank See F.B. 2483 |
| BM 50-9 | | | | -2800 206 | | | |

76P526 CE # 308 3-61

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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SURVEY BY Maldonado & E. Dreier DATE 7-31-72 WEATHER Sunny TIME 11:50 INSTR. NO. 26716
NOTES BY T. M. PALMERI DATE AUG 16 '72 NOTES CHKD. LBD DATE 8-17-72 ROD NO. 1734B

Control Survey for Precise Level Loop
Precise Level Loop T-102°
F.B. 2483 Pg. 85

LINE A

| STATION | BACKSIGHT RIGHT | MIC. | LEFT. | STADIA | FORESIGHT RIGHT | MIC. | LEFT. | STADIA | ELEV. FT. | DESCRIPTION AND REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | FROM BM 50-9 TO T.B.M. 11 to BM 50-9A |
| BM 50-9 | | | | 212 | | | | 298 | | BM 50-9 El. 999.460 1970 Precise |
| 1 | 197 | 962 | 498 S | 182 30 | 281 | 815 | 582 S | 264 34 | 999.449 | Poured Mon. on W. Side Crenshaw Blvd. Opposite Water Tank See |
| | | | | 201 | | | | 296 | | |
| 2 | 9 | 955 | 310 S | 9 1/2 22 | 296 | 512 | 597 S | 287 1/2 18 | | " " |
| | | | | 24 52 | | | | 298 1/2 52 | | |
| 3 | 14 | 785 | 315 S | 4 20 | 298 | 195 | 599 S | 289 1/2 18 | | LINE A |
| | | | | 72 | | | | 295 1/2 70 | | |
| 4 | 8 | 658 | 309 S | 17 1/2 8 1/2 18 | 295 | 015 | 596 S | 285 1/2 20 | | T- A. Goble |
| | | | | 90 | | | | 295 1/2 90 | | |
| 5 | 10 | 293 | 311 S | 19 1 18 | 295 | 227 | 596 S | 286 1/2 18 | | |
| | | | | 108 | | | | 299 1/2 108 | | |
| 6 | 6 | 422 | 307 S | 17 1/2 6 1/2 22 | 299 | 975 | 600 S | 286 1/2 26 | | |
| | | | | 130 | | | | 182 134 | | |
| 7 | 108 | 057 | 409 S | 113 103 10 | 177 | 752 | 478 S | 172 10 | -52.111 | |
| | | | | 140 | | | | 144 | | |
| | | | | | | | | 140 | | |
| | 356 | 132 | | | 944 | 491 | | 284 | 947.338 | (T.B.M. 11) BM 50-9A El. 947.303 1970 Precise P.K. SPK. in Rock Wall |
| | | | | | 356 | 132 | | | | |
| BM 50-9A | | | | | 1588 | 359 | | | | |
| ~~BM 50-9A~~ | | | | 45-0 | | | | 301 | | BM 50-9A |
| 1 | ~~140~~ | ~~209~~ | ~~441 S~~ | ~~130 20~~ | ~~290~~ | ~~528~~ | ~~591 S~~ | ~~279 22~~ | | |
| | | | | | | | | 295 | | |
| 2 | 108 | 301 | 409 S | 122 94 28 | 295 | 070 | 596 S | 282 1/2 26 | | |
| | 54 | 202 | 355 S | 62 46 16 | 246 | 709 | 547 S | 253 239 14 | -12.443 | |
| | | | | 44 | | | | 46 | | |
| | 162 | 503 | | | 541 | 779 | | 44 | 934.895 | BM Z 1 Precast Mon. 13.5 Ft. W of small Pine & 27.3 Ft. S W'ly of Pine Tree |
| | | | | | 162 | 503 | | 84 | | |
| | | | | | 379 | 276 | | | | |

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INST. NO. 96716 BOOK NO. 17348 PAGE 92

WEATHER Overcast T- 47° TIME 8:30 NOTES CHKD DATE 8-17-92

SURVEY OF Boyle Engineers NOTES Motorola EDB-3672

INDEXED L. M. PALMER DATE

JOB NO. 00268 Tower

| STATION | BACKSIGHT | | | FORESIGHT | | | | DESCRIPTION AND REMARKS |
|---|---|---|---|---|---|---|---|---|
| | RIGHT MIC. | LEFT. | STADIA | RIGHT MIC. | LEFT. | STADIA | | LINE "A" FROM Z-1 TO B.M. 50-10 |
| Z-1 | | | | | | | | El. Ft. 934.895 Z-1 - PRECAST MON. |
| 1 | 8 480 | 309 5 | 22 / 8 — 28 | 288 904 | 589 5 | 300 / 276 — 24 | | |
| 2 | 21 886 | 322 5 | 34 / 8 — 26 — 54 | 295 890 | 596 5 | 295 / 282 — 26 — 50 | | |
| 3 | 25 439 | 326 5 | 34 / 16 — 18 — 72 | 295 450 | 596 5 | 305 / 285 — 20 — 70 | | |
| 4 | 21 629 | 322 5 | 30 / 12 — 18 — 90 | 299 050 | 600 5 | 299 / 289 — 20 — 90 | | |
| 5 | 6 059 | 307 5 | 16 / 6 — 20 — 110 | 290 546 | 591 5 | 299 / 281 — 18 — 108 | | |
| 6 | 20 758 | 321 5 | 30 / 10 — 20 — 130 | 294 779 | 595 5 | 304 / 284 — 20 — 128 | | |
| 7 | 20 891 | 321 5 | 30 / 10 — 20 — 150 | 297 351 | 598 5 | 307 / 287 — 20 — 148 | | |
| 8 | 33 828 | 334 5 | 42 / 24 — 18 — 168 | 288 909 | 589 5 | 297 / 279 — 18 — 166 | | |
| 9 | 96 071 | 399 5 | 101 / 91 — 10 — 178 | 241 690 | 542 5 | 245 / 237 — 8 — 174 — 178 — 352 | | 358.205 B.M. 50-10 |
| | 25 5041 | | | 259 2569 | | | | |
| B.M. 50-10 | | | | 255 041 | | | | |
| | | | | 233 7528 | | | | |
| 1 | 151 233 | 452 5 | 160 / 142 — 18 | 288 245 | 589 5 | 298 / 278 — 20 | | |
| 2 | 27 333 | 328 5 | 37 / 17 — 20 — 38 | 297 511 | 598 5 | 307 / 287 — 20 — 40 | | |
| 3 | 7 422 | 308 5 | 16 / 7 — 18 — 56 | 290 218 | 591 5 | 300 / 280 — 20 — 60 | | |
| | 185 988 | | Con | T. 676 974 | | | | |

76P526 CE # 308 3-61

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JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET — PORTUGUESE BEND — 10.21.64
SURVEY BY G.E. DREIER — WEATHER OVERCAST — 68° — INST. NO. 2676
NOTES BY G.E. DREIER — DATE 8-4-72 — TIME 9:30 — ROD NO. 773A-B
INDEXED J. M. PALMER — DATE AUG 16 72 — NOTES CHKD [illegible] — DATE 8-11-72
F.B. 2483 Pg 87

| STATION | BACKSIGHT RIGHT MIC. | BACKSIGHT LEFT. | BACKSIGHT STADIA | FORESIGHT RIGHT MIC. | FORESIGHT LEFT. | FORESIGHT STADIA | LINE A DESCRIPTION AND REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | FROM 50-10 TO Y-4 TO T.B.M. #12 |
| CONT. | 185 988 | | 20 56 | 875 974 | | 60 | ELEV. FEET — CONT. |
| 4 | 13 969 | 3145 | 20 6 14 70 | 301 553 | 602 5 | ½ 301 ½ 293 16 76 | |
| 5 | 5 770 | 3065 | 14 5 18 88 | 300 882 | 601 5 | ½ 300 ½ 292 16 92 | |
| 6 | 8601 | 309 5 | ½ 18 8 20 108 | 279 306 | 580 5 | 287 271 16 108 | |
| 7 | 15 840 | 316 5 | 21 9 12 120 | 285 970 | 586 5 | 290 280 10 118 | − 64,623 |
| 8 | 44 785 | 345 5 | 46 42 4 124 | 200 980 | 501 5 | 203 197 6 124 | |
| | 274 953 | | | 2244 665 | | 124 248 | 798,582 |
| Y-4 | | | | 274 953 | | | Y-4 B.SPK IN 2" I.P. |
| | | | | 1969 712 | | | |
| 1 | 181 990 | 482 5 | 186 176 10 | 254 859 | 555 5 | 260 248 12 | |
| 2 | 35 770 | 336 5 | 43 27 16 26 | 296 179 | 597 5 | 307 290 12 24 | |
| 3 | 73 320 | 374 5 | 75 71 4 30 | 239 190 | 540 5 | 241 237 4 28 | − 16.376 |
| | 291 080 | | | 790 228 | | 30 58 | 777.296 |
| T.B.M. 12 | | | | 291 080 | | | T.B.M. #12, P.K. SPK IN HDDA |
| | | | | 499 148 | | | |
| 1 | 255 559 | 556 5 | 265 245 20 | 205 592 | 506 5 | 215 195 20 | |
| 2 | 11 509 | 312 5 | 20 2 18 38 | 289 232 | 590 5 | 298 280 18 38 | |
| | 267 068 | | CONT. | 494 824 | | | |

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**Do not extend notes this side of this line.**

LINE "A"

| STATION | BACKSIGHT RIGHT | BACKSIGHT MIC. | BACKSIGHT LEFT. | BACKSIGHT STADIA | FORESIGHT RIGHT | FORESIGHT MIC. | FORESIGHT LEFT. | FORESIGHT STADIA | DESCRIPTION AND REMARKS FROM T.B.M. #12 TO T.B.M. 13 |
|---|---|---|---|---|---|---|---|---|---|
| CONT | 267 | 068 | | 38 | 494 | 824 | | 38 | ELEV. FEET |
| 3 | 13 | 999 | 314 5 | 20 6 14 52 | 256 | 999 | 557 5 | 262 250 12 50 | |
| 4 | 10 | 108 | 311 5 | 18 2 16 68 | 298 | 951 | 599 5 | 307 289 18 68 | |
| 5 | 5 | 819 | 306 5 | 1/2 12 5 14 82 | 295 | 580 | 596 5 | 302 288 14 82 | |
| 6 | 20 | 490 | 321 5 | 27 13 14 96 | 289 | 749 | 590 5 | 296 282 12 94 | |
| 7 | 44 | 385 | 345 5 | 51 37 14 110 | 290 | 429 | 591 5 | 297 283 14 108 | |
| 8 | 22 | 779 | 323 5 | 30 14 16 126 | 296 | 870 | 597 5 | 303 289 14 122 | |
| 9 | 19 | 973 | 320 5 | 27 11 16 142 | 301 | 837 | 602 5 | 1/2 301 293 16 138 | |
| 10 | 13 | 601 | 314 5 | 21 5 16 158 | 290 | 865 | 591 5 | 296 284 12 150 | |
| 11 | 22 | 022 | 323 5 | 30 14 16 174 | 292 | 531 | 593 5 | 300 284 16 166 | |
| 12 | 14 | 379 | 315 5 | 23 5 18 192 | 297 | 408 | 598 5 | 305 289 16 182 | |
| 13 | 58 | 972 | 359 5 | 64 52 12 204 | 188 | 439 | 489 5 | 196 180 16 198 | -101.079 |
| | 513 | 595 | | | 3594 | 482 | | 204 | |
| | | | | | 513 | 595 | | 402 | 676.127 |
| T.B.M. 13 | | | | | -3080 | 887 | | | T.B.M. 13, P.K. SPK. IN HDWL. |

CONT.

F.B. 2483 PG. 188

SURVEY OF E.A. Co. PRECISE LEVEL NET

SURVEY BY DREIER NOTES G.F. DREIER 8-4-72

INDEXED T. M. PALMERI DATE

JOB NO. ~~0301.02~~ 0021.64 PORTUGUSE BEND 70°

WEATHER OVERCAST INST. NO. 96716

TIME 10:30 ROD NO. 1713A-B

NOTES CHKD. RGB DATE 8-17-72

76P526 CE # 308 3-61

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

NOTE: ANY ADDITIONS OR CHANGES TO THIS SHEET MUST BE MADE OR CORRECTED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

Do not extend notes this side of this line.

0021.64

JOB NO. 0501.02 SURVEY OF L.A. CO. PRECISE LEVEL NET — PORTUGUESE BEND LANDSLIDE 77°

SURVEY BY G.E. DREIER — WEATHER THIN OVERCAST — INST. NO. 26716

NOTES BY G.E. DREIER — DATE 8-4-72 — TIME 10:50 — ROD NO. 1713A-8

INDEXED E.M. PALMERI — DATE AUG 16 '72 — NOTES CHKD [illegible] — DATE 8-17-72

F.B. 2483 Pg. 187

LINE "A" — DESCRIPTION AND REMARKS — FROM T.B.M. 13 — TO 50-11

| STATION | BACKSIGHT RIGHT MIC. | BACKSIGHT LEFT. | BACKSIGHT STADIA | FORESIGHT RIGHT MIC. | FORESIGHT LEFT. | FORESIGHT STADIA | DESCRIPTION AND REMARKS |
|---|---|---|---|---|---|---|---|
| T.B.M. 13 | | | | | | | 676.127' CONT. |
| 1 | 6 288 | 307 5 | ½ 15 6 18 | 286 559 | 587 5 | 294 278 16 | |
| 2 | 3 071 | 304 5 | ½ 11 3 16 34 | 298 353 | 599 5 | ½ 298 289 18 34 | |
| 3 | 4 891 | 305 5 | ½ 13 4 18 52 | 296 822 | 597 5 | ½ 296 282 28 62 52 114 | −28.461 |
| | 14230 ✓ | | | 881 734 ✓ | | | |
| B.M. 50-11 | | | | 14 230 ✓ | | | 647.666 B.M. 50-11 |
| | | | | 867 504 | | | |
| 1 | 29 048 | 330 5 | 32 26 6 | 294 213 | 595 5 | 296 292 4 | T J. MALDONADO |
| 2 | 14 348 | 315 5 | 16 12 4 10 | 296 949 | 597 5 | 300 292 8 12 | |
| 3 | 32 020 | 333 5 | 34 30 4 14 | 299 408 | 600 5 | 301 297 4 16 | |
| 4 | 19 587 | 320 5 | 21 17 4 18 | 292 138 | 593 5 | 294 290 4 20 | |
| 5 | 9 107 | 311 5 | 11 7 4 22 | 294 721 | 595 5 | 296 292 4 24 | |
| 6 | 29 232 | 330 5 | 32 26 6 28 | 297 201 | 598 5 | 300 294 6 30 | |
| 7 | 25 222 | 326 5 | 27 23 4 32 | 288 489 | 589 5 | 290 286 4 34 | |
| 8 | 12 077 | 313 5 | 14 10 4 36 | 287 356 | 588 5 | 289 285 4 38 | |
| 9 | 12 841 | 313 5 | 15 9 6 42 | 287 831 | 588 5 | 290 284 6 4 44 | |
| | 183 482 | | | 263 8 306 | | | CONT. |

PLEASE RETURN TO

**LOS ANGELES COUNTY ENGINEER**

403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

**Do not extend notes this side of this line.**

LINE "A"

| STATION | BACKSIGHT RIGHT MIC. | BACKSIGHT LEFT. | BACKSIGHT STADIA | FORESIGHT RIGHT MIC. | FORESIGHT LEFT. | FORESIGHT STADIA | DESCRIPTION AND REMARKS FROM 50-11 TO TANK TO TANK 2 |
|---|---|---|---|---|---|---|---|
| | 183 482 | | 42 | 2638 306 | | 44 | ELEV. FT. CONT. |
| 10 | 42 874 | 343 5 | 46 38 8 50 | 301 797 | 602 5 | 1/2 301 297 8 52 | |
| 11 | 5 281 | 306 5 | 9 1 8 58 | 297 772 | 598 5 | 300 294 6 58 | |
| 12 | 18 789 | 319 5 | 20 16 4 62 | 292 448 | 593 5 | 294 290 4 62 | |
| 13 | 15 673 | 316 5 | 18 12 6 68 | 291 453 | 592 5 | 294 288 6 68 | |
| 14 | 8 621 | 309 5 | 11 5 6 74 | 301 552 | 602 5 | 1/2 301 298 6 74 | |
| 15 | 29 292 | 330 5 | 32 26 6 80 | 293 008 | 594 5 | 297 289 8 82 | |
| 16 | 32 487 | 333 5 | 35 29 6 86 | 287 452 | 588 5 | 291 283 8 90 | |
| 17 | 26 119 | 327 5 | 30 22 8 94 | 295 209 | 596 5 | 300 290 10 100 | |
| 18 | 24 718 | 325 5 | 27 21 6 100 | 285 990 | 586 5 | 290 280 10 110 | |
| 19 | 46 693 | 347 5 | 49 43 6 106 | 284 411 | 585 5 | 286 282 4 114 | -172,345 |
| 20 | 18 441 | 319 5 | 24 12 12 118 | 136 148 | 437 5 | 140 132 8 122 118 | |
| | 452 470 | | | 5705 546 | | | |
| TANK | | | | 452 470 | | 240 | 475,321 TANK -B.SPK. W. & T. |
| | | | | -5253 076 | | | |
| 1 | 163 670 | 464 5 | 167 159 8 | 174 408 | 475 5 | 178 170 8 | - 0,352 |
| TANK 2 | | | | 163 670 | | 8 16 | 474,969 TANK 2, TOP OF 7" PIPE FLANGE |
| | | CONT. | | - 10 738 | | | |

WEATHER THIN OVERCAST INST. NO. 96716

TIME 11:30 ROD NO. 173A-B

NOTES CHKD [illegible] DATE 8-17-72

JOB NO. 0021.64

SURVEY OF PORTUGUESE BEND LANDSLIDE

SURVEY BY DREIER NOTES G.E. DREIER 8-4-72

INDEXED T. M. PALMERI DATE

F.B. 2483 PG. 190

76P526 CE # 308 3-61

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

NOTE: ANY ADDITIONS OR CHANGES TO THIS SHEET MUST BE MADE OR CORRECTED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

Do not extend notes this side of this line.

JOB NO. ~~0301.02~~ 0021.64 SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~ PORTUGUESE BEND LANDSLIDE 75
SURVEY BY G.E. DREIER DATE 8-4-72 WEATHER THIN OVERCAST INST. NO. 96716
NOTES BY G.E. DREIER TIME 1:20 ROD NO. 1734-B
INDEXED T. M. PALMER DATE 8-16-72 NOTES CHKD RBT DATE 8-17-72
F.B. 2483 Pg. 191

LINE "A"

| STATION | BACKSIGHT RIGHT MIC. | BACKSIGHT LEFT. | BACKSIGHT STADIA | FORESIGHT RIGHT MIC. | FORESIGHT LEFT. | FORESIGHT STADIA | DESCRIPTION AND REMARKS FROM TANK 2 TO P.B. 9A |
|---|---|---|---|---|---|---|---|
| | | | | | | | 474.969 TANK 2 |
| TANK 2 | | | 133 | | | 300 | |
| 1 | 126 731 | 427 5 | 119 14 | 292 128 | 593 5 | 284 16 | |
| 2 | 7 119 | 3085 | 10 4 6 20 | 293 402 | 594 5 | 195 191 4 20 | |
| 3 | 5 279 | 3065 | 24 ½ 5 38 | 301 793 | 602 5 | 301 ½ 285 32 52 | |
| 4 | 19 582 | 3205 | 26 12 14 58 | 297 571 | 5985 | 304 290 14 72 | |
| 5 | 33 018 | 3345 | 41 25 16 | 276 369 | 5775 | 291 261 30 66 | |
| 6 | 53 441 | 3545 | 66 40 26 88 | 298 417 | 599 5 | 306 290 16 96 | |
| 7 | 38 542 | 339 | 50 26 24 114 | 293 258 | 594 5 | 307 279 28 112 | |
| 8 | 109 584 | 410 5 | 124 94 30 138 | 192 638 | 493 5 | 207 177 30 168 | - 60.770 |
| PB 9A | 393 296 | | | 2245 576 | | 170 | |
| | | | | 393 296 | | 168 | 414.199 P.B. 9A B.S.M.K. W. & T. |
| | | | | 1852 280 | | 338 | |
| 1 | 62 089 | 363 5 | 69 55 14 | 283 003 | 584 5 | 290 276 14 | |
| 2 | 23 778 | 3245 | 33 13 20 34 | 289 767 | 5905 | 297 281 16 30 | |
| 3 | 100 937 | 401 5 | 112 88 24 | 294 750 | 5955 | 302 286 16 | |
| 4 | 8 201 | 309 5 | 14 2 12 70 | 239 409 | 5405 | 252 226 46 26 72 | |
| | 195005 | | CONT. | 1106929 | | | |

PLEASE RETURN TO
**LOS ANGELES COUNTY ENGINEER**
403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

Do not extend notes this side of this line.

F.B. 2483 Pg. 192 JOB NO. 0021.64
SURVEY OF PORTUGUESE BEND LANDSLIDE
SURVEY BY DREIER NOTES DREIER 8-4-72
INDEXED L. M. PALMERI DATE

WEATHER HAZY SUN 75° INST. NO. 96716
TIME 2:30 ROD NO. 113A-B
NOTES CHKD KG3 DATE 8-10-72

LINE "A"

| STATION | BACKSIGHT RIGHT MIC. | BACKSIGHT LEFT. | BACKSIGHT STADIA | FORESIGHT RIGHT MIC. | FORESIGHT LEFT. | FORESIGHT STADIA | DESCRIPTION AND REMARKS FROM P.B. 9A TO SB.2 TO SB.1 TO P.T.1 TO B1B |
|---|---|---|---|---|---|---|---|
| CONT. | 195 005 | | 70 | 1106 929 | | 72 | CONT. ELEV. FEET |
| 5 | 116 682 | 417 5 | 127 105 22 92 | 146 248 | 447 5 | 157 135 22 94 92 186 | - 30.889 |
| | 311 687 | | | 1253 177 311 687 941 490 | | | |
| S.B. 2 | | | | | | | 383.310 S.B. 2 B.S.P.K.W.&T. |
| 1 | 260 157 156903 +103 254 | 561 5 | 269 251 18 | 156 903 | 457 5 | 165 147 18 18 36 | + 3.388 |
| S.B. 1 | | | | | | | 386.698 SB.1 BT SP. W. & T. |
| 1 | 237 372 | 538 5 | 280 194 86 | 42892 | 343 5 | 83 1 82 | |
| 2 | 159540 | 460 5 | 166 152 14 100 | 191 570 | 492 5 | 198 184 14 96 | + 5.330 |
| P.T. 1 | 396 912 234 462 +162450 | | | 234 462 | | 100 196 | 392.028 P.T. 1 BT SP. W. & T. |
| 1 | 33 722 | 334 5 | 44 22222 | 296 739 | 597 5 | 296 284 24 22 46 | - 8.629 |
| B1B | | | | 33722 263 017 | | | 383.339 B1B 2" I.P. |

76P526 CE # 308 3-61

PLEASE RETURN TO

**L[illegible] ANGELES COUNTY ENGINEER**

403 LOS ANGELES COUNTY ENGINEERING BLDG.

N[illegible]: ANY ADDITIONS OR CHANGES [illegible] IIS SHEET MUST BE MADE OR C[illegible]ED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

• Do not extend notes this side of this line.

| STATION | BACKSIGHT RIGHT | MIC. | LEFT. | STADIA | FORESIGHT RIGHT | MIC. | LEFT. | STADIA | LINE "A" DESCRIPTION AND REMARKS FROM B1B TO D-2 | |
|---|---|---|---|---|---|---|---|---|---|---|
| B-1B | | | | | | | | | EL. FT. 383.339 | B-1B 2" I.P.T. & TAG |
| 1 | 256 | 052 | 557 5 | 268 244 24 | 70 | 692 | 371 5 | 83 57 26 | | |
| 2 | 46 | 371 | 347 5 | 66 26 40 64 | 277 | 148 | 578 5 | 298 258 38 64 | | |
| 3 | 85 | 092 | 386 5 | 94 76 18 82 | 298 | 271 | 599 5 | 306 290 16 80 | | |
| 4 | 21 | 372 | 322 5 | 24 18 6 88 | 271 | 957 | 572 5 | 275 267 8 88 | | |
| 5 | 19 | 295 | 320 5 | 23 15 8 96 | 291 | 342 | 592 5 | 295 287 8 96 | | |
| 6 | 10 | 567 | 311 5 | 15 5 10 106 | 298 | 608 | 599 5 | 304 292 12 108 | | |
| 7 | 23 | 432 | 324 5 | 26 20 6 112 | 279 | 072 | 580 5 | 282 276 6 114 | | |
| 8 | 10 | 645 | 311 5 | 15 5 10 122 | 242 | 950 | 543 5 | 248 236 12 126 | | |
| 9 | 196 | 853 | 497 5 | 213 179 34 156 | 11 | 081 | 312 5 | 25 11 28 154 | -39.251 | |
| 10 | 225 | 760 | 526 5 | 228 222 6 162 | 50 | 678 | 351 5 | 57 43 14 168 | | |
| D-2 | 895 | 439 | | | 2091 | 799 | | 162 330 | 344.148 | D-2 PRECAST MON. |
| | | | | | 895 | 439 | | | | |
| | | | | | -1196 | 360 | | | | |
| 1 | 236 | 778 | 537 5 | 248 224 24 | 153 | 521 | 454 5 | 166 140 26 | | |
| | 285 | 002 | 586 | 292 278 14 | 26 | 088 | 327 | 34 18 16 | | |
| | 521 | 780 | | 38 | 179 | 609 | | 42 | | |

JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~ 0021.64 PORTUGUESE BEND LANDSLIDE T-90

SURVEY BY G.E. DREIER

NOTES BY SIEMANN DATE 8-7-72 WEATHER PTLY CLOUDY INST. NO 96716

INDEXED T. M. PALMERI DATE AUG 16 72 TIME 9:45 ROD NO 13AB

NOTES CHKD. [illegible] DATE 8-17-72

F.B. 2483 PG. 193

PLEASE RETURN TO

**LOS ANGELES COUNTY ENGINEER**

403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

**Do not extend notes this side of this line.**

| STATION | BACKSIGHT | | | FORESIGHT | | | LINE "A" DESCRIPTION AND REMARKS | |
|---|---|---|---|---|---|---|---|---|
| | RIGHT MIC. | LEFT. | STADIA | RIGHT MIC. | LEFT. | STADIA | FROM D-2 TO DAVIS | |
| CONT. | 521 780 | | 38 | 179 609 | | 42 | ELEV. FT. | CONT. |
| 3 | 293 867 | 594 5 | 299 287 12 50 | 32 989 | 333 5 | 40 24 16 58 | | |
| 4 | 278 992 | 579 5 | 292 264 28 78 | 123 121 | 424 5 | 134 112 22 80 | +24.899 | |
| DAVIS | | | | | | 78 158 | 369.047 | DAVIS PRECAST MON. |
| | 1094639 | | | 335719 | | | | |
| | 335719 | | | | | | | |
| | + 758920 | | | | | | | |

CONT.

F.B. 2483 PG. 194

JOB NO. 0021.64'

SURVEY OF PORTUGUESE BEND LANDSLIDE

SURVEY BY DREIER NOTES SIEMANN 8-7-72

INDEXED T. M. PALMERI DATE

WEATHER LT. BREEZE INST. NO. 96716

TIME 10:50 ROD NO. 1713AB

NOTES CHKD RGB DATE 8-17-72

T = 90°

76P526 CE # 308 3-61

PLEASE RETURN TO

**LOS ANGELES COUNTY ENGINEER**

403 LOS ANGELES COUNTY ENGINEERING BLDG.

[illegible] ANY ADDITIONS OR CHANGES [illegible] IS SHEET MUST BE MADE OR [illegible]ED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

**Do not extend notes this side of this line.**

JOB NO. ~~0301.02~~ 0021.64 SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~ Portuguese Bend Landslide T-90°

SURVEY BY G.E. Dreier

NOTES BY Maldonado DATE 8-7-72

INDEXED T. M. PALMERI DATE AUG 16 72

WEATHER Sunny & Br. INST. NO. 96716

TIME 10:50 to ROD NO. 1713 A/B

NOTES CHKD. R.G.B. DATE 8-17-72

F.B. 2483 Pg. 195

| STATION | BACKSIGHT RIGHT | MIC. | LEFT. | STADIA | | FORESIGHT RIGHT | MIC. | LEFT. | STADIA | | LINE A DESCRIPTION AND REMARKS FROM BM Davies TO BM A-3A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BM Davies | | | | 27 | | | | | 297 | | ELEV., FT. | BM Davies Precast Mon |
| 1 | 20 | 120 | 321 5 | 13 | 14 | 292 | 383 | 593 5 | 287 | 20 | | |
| | | | | 14 | | | | | 294 | | | |
| 2 | 11 | 605 | 312 5 | 8 | 6 | 292 | 682 | 593 5 | 290 | 4 | | |
| | | | | 8 | 20 | | | | 301 | 24 | | |
| 3 | 6 | 678 | 307 5 | 4 | 4 | 298 | 992 | 599 5 | 295 | 6 | | |
| | | | | 5 | 24 | | | | 281 | 30 | | |
| 4 | 3 | 060 | 304 5 | 1 | 4 | 279 | 760 | 580 5 | 277 | 4 | | |
| | | | | 20 | 28 | | | | 301 | 34 | | |
| 5 | 16 | 503 | 317 5 | 12 | 8 | 299 | 833 | 600 5 | 297 | 4 | | |
| | | | | 121 | 36 | | | | 154 1/2 | 38 | | |
| ~~A4~~ 6 | 86 | 295 | 387 5 | 51 | 70 | 107 | 167 | 408 5 | 107 1/2 | 94 | | |
| | | | | | 106 | | | | | 132 | 46.803 | |
| | | | | | | | | | | 106 | | |
| | | | | | | | | | | 238 | | |
| | 144 | 271 | | | | 1570 | 817 | | | | | |
| | | 6 | | | | 144 | 261 | | | | 322.244 | |
| BM A-4 | | | | | | 1426 | 546 | | | | ~~BM~~ | BM A-4 Precast Mon |
| | | | | | | | 5 | | | | | |
| ~~BM A-4~~ 1 | 145 | 532 | 446 5 | 195 | | 292 | 555 | 593 5 | 300 | | | ~~BM A-4 Precast Mon~~ |
| | | | | 95 | 100 | | | | 284 | 16 | | |
| | | | | 33 | | | | | 297 1/2 | | | |
| 2 | 28 | 122 | 329 5 | 23 | 10 | 297 | 372 | 598 5 | 287 1/2 | 20 | | |
| | | | | | 110 | | | | | 36 | | |
| | | | | 81 | | | | | 107 | | | |
| 3 | 79 | 668 | 380 5 | 77 | 4 | 103 | 368 | 404 5 | 99 | 8 | 14.435 | |
| | | | | | 114 | | | | | 44 | | |
| | | | | | | | | | | 114 | | |
| | 253 | 322 | | | | | | | | 158 | | |
| | | | | | | 693 | 295 | | | | | |
| | | | | | | 253 | 322 | | | | 307.809 | A-3A 2" I.P. & Button Cap |
| A-3A | | | | | | 439 | 973 | | | | | |

PLEASE RETURN TO

**LOS ANGELES COUNTY ENGINEER**

403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

**Do not extend notes this side of this line.**

LINE "A"

| STATION | BACKSIGHT RIGHT | MIC. | LEFT. | STADIA | FORESIGHT RIGHT | MIC. | LEFT. | STADIA | DESCRIPTION AND REMARKS FROM BM A-3A TO RAD 1 TO 50-12 | |
|---|---|---|---|---|---|---|---|---|---|---|
| A-3A | | | | | | | | | ELEV. FEET | A-3A 2" I.P. & Button Cap |
| 1 | 297 | 430 | 598 5 | 297½ 278² 38 | 5 | 617 | 306 5 | 18½ 5½ 26 | | |
| 2 | 256 | 952 | 557 5 | 268 244 24 | 11 | 170 | 312 5 | 15 7 8 | | |
| 3 | 292 | 922 | 593 5 | 300 62 284 16 | 11 | 327 | 312 5 | 19 34 3 16 | | |
| 4 | 222 | 618 | 523 5 | 235 78 209 26 | 24 | 548 | 325 5 | 32 50 16 16 | | |
| 5 | 290 | 915 | 591 5 | 299 104 279 20 | 136 | 553 | 437 5 | 152 66 120 32 | | |
| | | | | 124 | | | | 98 | | |
| | | | | | | | | 124 | +38.439 | |
| | 1360 | 837 | | | 189 | 215 | | 222 | | |
| | 189 | 215 | | | | | | | | |
| Rad. 1 # | +1171 | 622 | | | | | | | 346.248 | Rad. 1 # Precast Mon. 2 Ft. deep |
| 1 | 275 | 995 | 576 5 | 298 252 46 | 236 | 295 | 537 5 | 265 207 58 | | |
| 2 | 28 | 585 | 329 5 | 41 15 26 | 240 | 153 | 541 5 | 255 225 30 | | |
| 3 | 9 | 028 | 310 5 | 14½ 72 9½ 10 | 251 | 668 | 552 5 | 257 88 245 12 | | |
| 4 | 34 | 812 | 335 5 | 41 82 27 14 | 166 | 732 | 467 5 | 170 100 162 8 | | |
| | | | | 96 | | | | 108 | 17.927 | |
| | 348 | 420 | | | 894 | 848 | | 96 | | |
| | | | | | 348 | 420 | | 204 | | |
| 50-12 | | | | | 546 | 428 | | ~~96~~ | 328.321 | 50-12 Poured Mon. |
| | | | | cont. | | | | | | |

T. 90°

WEATHER Sunny & Calm INST. NO. 96716

TIME 11:25 ROD NO. 1713 A&B

NOTES CHKD. RGB DATE 8-17-72

JOB NO. 0021.64

SURVEY OF Portuguese Bend Landslide

SURVEY BY Dreier NOTES Maldonado 8-7-72

INDEXED I. M. PALMERI DATE

F.B. 2483 PG. 196

76P526 CE # 308 3-61

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

Do not extend notes this side of this line.

| STATION | BACKSIGHT RIGHT | MIC. | LEFT. | STADIA | FORESIGHT RIGHT | MIC. | LEFT. | STADIA | LINE "A" DESCRIPTION AND REMARKS FROM 50-12 TO 50-13 | |
|---|---|---|---|---|---|---|---|---|---|---|
| 50-12 | | | | | | | | | 328.321 | 50-12 Poured Mon. |
| 1 | 292 | 542 | 593 5 | 292 1/2 272 40 | 203 | 233 | 504 5 | 225 181 44 | | |
| 2 | 54 | 227 | 355 5 | 70 38 32 | 297 | 638 | 598 5 | 297 1/2 287 20 | | |
| 3 | 5 | 818 | 306 5 | 17 1/2 5 72 24 | 296 | 815 | 597 5 | 296 1/2 285 64 22 | | |
| 4 | 6 | 410 | 307 5 | 16 1/2 6 96 20 | 283 | 047 | 584 5 | 292 274 86 18 | | |
| 5 | 23 | 408 | 324 5 | 33 13 116 20 | 286 | 578 | 587 5 | 297 275 104 22 | | |
| 6 | 28 | 015 | 329 5 | 39 17 136 22 | 296 | 727 | 597 5 | 306 286 126 20 | | |
| 7 | 15 | 383 | 316 5 | 21 9 158 12 | 287 | 275 | 588 5 | 293 281 146 12 | | |
| 8 | 11 | 532 | 312 5 | 18 4 170 14 | 296 | 993 | 497 5 | 303 289 158 14 | | |
| 9 | 12 | 112 | 313 5 | 18 6 184 12 | 275 | 652 | 576 5 | 281 269 172 12 | | |
| 10 | 29 | 111 | 330 5 | 35 23 196 12 | 273 | 950 | 574 5 | 279 267 184 12 | | |
| 11 | 11 | 098 | 312 5 | 19 3 208 16 | 290 | 152 | 591 5 | 297 283 196 14 | | |
| 12 | 6 | 962 | 307 5 | 13 1/2 6 224 14 | 296 | 711 | 597 5 | 303 289 210 14 | | |
| 13 | 17 | 390 | 318 5 | 21 13 238 8 | 300 | 997 | 601 5 | 300 1/2 295 224 10 | | |
| 14 | 6 | 562 | 307 5 | 11 1 246 10 | 300 | 312 | 601 | 305 295 234 10 | | |
| Cont. | 520 | 570 | | 256 | 3986 | 080 | | 244 | CONT. | |

JOB NO. ~~0301.02~~ 0021.64 SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~ Portuguese Bend Landslide T-84°
SURVEY BY G.E. Dreier
NOTES BY Maldonado DATE 8-7-72
INDEXED T. M. PALMERI DATE AUG 16 72
WEATHER Sunny & Br. INST. NO. 9676
TIME 1:40 to 2:40 ROD NO. 1713AEB
NOTES CHKD. RoD DATE 8-17-72
F.B. 2483 PG. 197

PLEASE RETURN TO
**LOS ANGELES COUNTY ENGINEER**
403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

Do not extend notes this side of this line.

F.B. 2483 Pg. 198 JOB NO 0021.64
SURVEY OF Portuguese Bend Lands/Side
SURVEY BY Dreier NOTES Malaluna 8-7-72
INDEXED T. M. PALMER DATE
T-84°
WEATHER Sunny & Br. INST. NO 96716
TIME 1:40 to 2:40 ROD NO 17/348
NOTES CHKD RGB DATE 8-11-72

LINE A

| STATION | BACKSIGHT RIGHT MIC. | BACKSIGHT LEFT. | BACKSIGHT STADIA | FORESIGHT RIGHT MIC. | FORESIGHT LEFT. | FORESIGHT STADIA | DESCRIPTION AND REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | FROM 50-12 TO 50-13 |
| Cont. | 520 570 | | 12 256 | 3986 080 | | 303 244 | Cont. |
| 15 | 8 145 | 309 5 | 4 8 | 299 862 | 600 5 | 295 8 | ELEV. FT. |
| | | | 16 264 | | | 298 252 | |
| 16 | 11 922 | 322 5 | 6 10 | 298 108 | 599 5 | 291 2 14 | |
| | | | 13 274 | | | 279 266 | |
| 17 | 10 932 | 311 5 | 5 10 | 273 497 | 574 5 | 267 12 | |
| | | | 22 284 | | | 297 278 | |
| 18 | 15 927 | 316 5 | 8 14 | 297 878 | 598 5 | 291 2 12 | |
| | | | 21 298 | | | 137 290 | |
| 19 | 6 050 | 307 5 | 6 1/2 30 | 125 513 | 426 5 | 113 24 | |
| | | | 303 328 | | | 10 314 | |
| 20 | 296 165 | 597 5 | 289 14 | 5 338 | 306 5 | 0 10 | |
| | | | 292 342 | | | 31 324 | |
| 21 | 287 952 | 588 5 | 282 10 | 25 548 | 326 5 | 19 12 | |
| | | | 295 352 | | | 188 336 | |
| 22 | 289 735 | 590 5 | 283 12 | 174 913 | 475 5 | 160 28 | |
| | | | 296 364 | | | 62 364 | |
| 23 | 258 333 | 559 5 | 220 76 | 25 962 | 326 5 | 25 1/2 74 | |
| | | | 236 440 | | | 92 438 | |
| 24 | 209 722 | 510 5 | 182 54 | 64 493 | 365 5 | 36 56 | -120.136 |
| | | | 494 | | | 494 494 | |
| | 1914 453 | | | 5577 192 | | 988 | |
| 50-13 | 5 | | | 1915 453 | | | 208.185 50-13 El. 208.15-7 Mon. |
| | | | | -3661 739 | | | 1970 Precise |

76P526 CE # 308 3-61

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

NOTE: ANY ADDITIONS OR CHANGES OF THIS SHEET MUST BE MADE OR CHANGED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

Do not extend notes this side of this line.

| STATION | BACKSIGHT RIGHT | MIC. | LEFT. | STADIA | | FORESIGHT RIGHT | MIC. | LEFT. | STADIA | | LINE "A" DESCRIPTION AND REMARKS FROM 50-13 TO 50-13A TO K-6 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 50-13 | | | | 194 | | | | | 129 | | 208.185 50-13 Mon. El. 208.15 1970 Precise |
| 1 | 164 | 659 | 465 5 | 134 | 60 | 98 | 860 | 399 5 | 67 | 62 | |
| | 98 | 860 | | | | | | | | 60 | |
| | +65 | 199 | | | | | | | | 122 | + 2.159 |
| | | 7 | | | | | | | | | |
| 50-13A | | | | 289 | | | | | 25 | | 210,344 50-13A SPK. in Cb. |
| 1 | 286 | 310 | 587 5 | 283 | 6 | 23 | 172 | 324 5 | 21 | 4 | |
| 2 | 295 | 204 | 596 5 | 297 293 | 4 | 13 | 621 | 314 5 | 15 11 | 4 | |
| | | | | 296 | 10 | | | | | 8 | |
| 3 | 295 | 349 | 596 5 | 294 | 2 | 57 | 318 | 358 5 | 59 55 | 4 | |
| | | | | 137 | 12 | | | | 125 | 14 | |
| 4 | 131 | 668 | 432 5 | 125 | 12 | 119 | 145 | 420 5 | 113 | 12 | |
| | | | | | 24 | | | | | 24 | + 26.092 |
| | 1008 | 531 | | | | 213 | 256 | | | 24 | |
| | 213 | 256 | | | | | | | | 48 | |
| | +795 | 275 | | | | | | | | | |
| K-6 | | | | 123 | | | | | 137 | | 236.436 K-6 Mon. |
| 1 | 117 | 880 | 418 5 | 111 | 12 | 130 | 931 | 431 5 | 123 | 14 | |
| 2 | 6 | 662 | 307 5 | 8 4 | 4 | 297 | 947 | 598 5 | 298 296 | 2 | |
| | | | | 39 | 16 | | | | 294 | 16 | |
| 3 | 37 | 288 | 338 5 | 35 | 4 | 292 | 290 | 593 5 | 290 | 4 | |
| | | | | 18 | 20 | | | | 256 | 20 | |
| 4 | 17 | 291 | 318 5 | 16 | 2 | 253 | 310 | 554 5 | 250 | 6 | SPK. in Cb. |
| | | | | 295 | 22 | | | | 68 1/2 | 26 | |
| 5 | 257 | 769 | 558 5 | 219 | 76 | 31 | 980 | 332 | 31 1/2 | 74 | |
| | | | | | 98 | | | | | 100 | |
| | cont. 436 | 890 | | | | 1006 | 458 | | | | |

JOB NO. ~~0301.02~~ 0021.64 SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~ Portuguese Bend Landslide T-72°
SURVEY BY G.E. Dreier
NOTES BY Maldonado DATE 8-8-72 WEATHER Sunny & Calm INST. NO. 96716
INDEXED T. M. PALMERI DATE AUG 16 '72 TIME 9:05 ROD NO. 1713A&B
NOTES CHKD. RbB DATE 8-17-72

F.B. 2483 Pg. 199

PLEASE RETURN TO

**LOS ANGELES COUNTY ENGINEER**

403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

**Do not extend notes this side of this line.**

| STATION | BACKSIGHT RIGHT MIC. | BACKSIGHT LEFT. | BACKSIGHT STADIA | FORESIGHT RIGHT MIC. | FORESIGHT LEFT. | FORESIGHT STADIA | LINE "A" DESCRIPTION AND REMARKS FROM K-6 TO 34-14A |
|---|---|---|---|---|---|---|---|
| Cont. | 436 890 | | 280 98 | 1006 458 | | 104 100 | Cont. |
| 6 | 280 159 | 581 5 | 244 36 | 69 650 | 370 5 | 34 70 | ELEV. FEET |
| | ~~49~~ | | 235 134 | | | 146 170 | |
| 7 | 202 960 | 503 5 | 169 66 | 111 618 | 412 5 | 76 70 | |
| | | | 249 200 | | | 1331 240 | |
| 8 | 215 021 | 516 5 | 181 68 | 104 810 | 405 5 | 1042 58 | |
| | | | 268 | | | 298 | |
| | | | | | | ~~268~~ | |
| | 1135 030 | | | 1292 536 | | 566 | 5.168 |
| | | | | 1135 030 | | | |
| 34-14A | | | | 157 506 | | | 231.268 |

B.M. 34-14A ~~Mon~~ (T 1053 U.S.G.&G.S)

ELEV. 231.260, 1970 PRECISE ADJ.

P.V. DR. S. & SCHOONER DR., N.W. COR., DISC IN CATCH BASIN

T-74°

F.B. 2483 PG. 200

JOB NO. 0021.64

SURVEY OF Portuguese Bend Landslide

SURVEY BY Dreier NOTES Maldonado 8-8-72

INDEXED T. M. PALMERI DATE

WEATHER Sunny & Calm INST. NO. 96716

TIME 9:05 ROD NO. 1713 AEB

NOTES CHKD RGB DATE 8-17-72

0021.64

F. B. 2483 PG. 201

Profile No. ____ Notes Red ____ Plotted ____ Job No. ____ Division No. 11

X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey of PORTUGUESE BEND LANDSLIDE

Date ____ Date ____ Survey by DREIER Notes SIMANN Date 8-9-72

Date 8-15-72 Date ____ Map No. ____ Indexed J. M. PALMERI Date AUG 16 '72

# PORTUGUESE BEND LANDSLIDE

JOB NO. 0021.64 AUG. 1972

RELEVELING LINE "B"

DREIER
MALDONADO
GOBLE
SIEMAND
OHASHI

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| | | | | |

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

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

76-L-298 CE 307 5-66

76-L-298 CE 307 5-66

PLEASE RETURN TO
**LOS ANGELES COUNTY ENGINEER**
403 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

F. B. 2483 Pg. 202 | Job No. 0021.64 | Division No. 11 | Notes Red | Plotted | Profile
Survey of PORTUGESE BEND LANDSLIDE | Date | Date | No.
Survey by DREIER Notes SIEMANN 8-9-72 | Notes Chk'd. | Checked 8-23-72 | X-Sec.
Indexed T. M. PALMERI | Date | Date | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "B" |
|---|---|---|---|---|---|
| S.B. # 2 | 3018 | 386 328 | | 383 310 | S.B. # 2. BT SPK. W. & T. PER PG. 192 |
| T.P. | 0632 | 379 957 | 7003 | 379 325 | T.P. L. & T. IN DR. |
| T.P. | 0579 | 368 764 | 11 772 | 368 185 | |
| " | 1472 | 360 834 | 9402 | 359 362 | |
| S.B. # 3 | 9099 | 362 041 | 7892 | 352 942 | S.B. # 3 SP.K. W. & T. |
| T.P. | 11915 | 373 024 | 0932 | 361 109 | |
| " | 10972 | 383 087 | 0909 | 372 115 | |
| " | 11610 | 394 045 | 0652 | 382 435 | |
| ~~T.P. WEST FIX~~ | 6001 | 396 528 | 3518 | 390 527 | |
| WEST FIX | 2305 | 396 160 | 2673 | 393 855 | WEST FIX C.E. MON. |
| T.P. | 0508 | 385 129 | 11 539 | 384 621 | |
| " | 0991 | 374 208 | 11 912 | 373 217 | |
| " | 1323 | 365 644 | 10887 | 362 321 | |
| " | 6728 | 365 320 | 6052 | 358 592 | |
| " | 1422 | 358 681 | 7071 | 358 249 | |
| " | 0691 | 348 972 | 10390 | 348 281 | |
| " | 0467 | 338 031 | 11408 | 338 564 | |
| " | 0470 | 328 472 | 11029 | 328 002 | |
| " | 3025 | 319 375 | 10122 | 318 350 | |
| H-2 | 1512 | 317 432 | 5455 | 315 920 | H-2 C.E. MON. |
| T.P. | 1386 | 309 082 | 7738 | 309 694 | |

CONT.

76-L-298 CE 307 5-66

PLEASE RETURN TO
**LOS ANGELES COUNTY ENGINEER**
403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "B" CONT. |
|---|---|---|---|---|---|
| T.P. | 5037 | ~~311~~ 082 305 913 | 10206 | ~~298~~ 300 876 | |
| H-4 | 1568 | 30~~0~~2 507 | ~~[illegible]~~ 4 974 | ~~298~~ 300 939 | H-4 2" I.P. |
| T.P. | 0283 | ~~288~~ 290 892 | 11 898 | ~~288~~ 290 609 | |
| " | 11 201 | 298 284 | 3 809 | 28~~5~~7 083 | |
| " | 11 430 | 309 276 | 0438 | 29~~5~~7 846 | |
| " | 6378 | 315 156 | 0498 | 308 778 | |
| " | 7940 | 32~~0~~2 775 | 0321 | 31~~4~~ 835 | |
| " | 8121 | ~~328~~ 30 015 | 0881 | ~~319~~ 21 894 | |
| P.T. 5 | 1931 | 330 068 | 1878 | 328 137 | P.T. 5 S.W.&T. LIMETREE & PEPPERTREE |
| TP | 0578 | 320 203 | 10443 | 319 625 | |
| " | 0910 | 310 313 | 10800 | 309 403 | |
| P.T. 6-C | 1045 | 304 290 | 7068 | 303 245 | P.T. 6-C 2" I.P. KUMQUAT & PEPPERTREE |
| T.P. | 0740 | 293 174 | 11 856 | 292 434 | |
| " | 0359 | 282 336 | 11 197 | 281 977 | |
| " | 0410 | 271 237 | 11 509 | 270 827 | |
| " | 0670 | 261 864 | 10043 | 261 194 | |
| " | 0491 | 250 912 | 11 443 | 250 421 | |
| " | 0228 | 239 479 | 11 661 | 239 251 | |
| " | 2500 | 231 456 | 10 523 | 228 956 | |
| " | 0330 | 220 516 | 11 270 | 220 186 | |
| " | | | 7730 | 212 786 | |

CONT.

Profile Notes Red ____ Plotted ____ Job No. 0021.64 Division No. 11 F.B. 2483 PG 203
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chk'd. [illegible] Checked ____ Survey by DREIER Notes SIEMANN Date 8-9-72
No. ____ Date [illegible] Date ____ Map No. ____ Indexed M. PALMERI Date AUG 16 '72

76-L-298 CE 307 5-66

PLEASE RETURN TO
**LOS ANGELES COUNTY ENGINEER**
403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

F. B. 2483 Pg. 204 | Job No. 0021.64 | Division No. 11 | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | Date | No.
Survey by DREIER | Notes SIEMANN 8-9-72 | Notes Chk'd. KCB | Checked 2-13-73 | X-Sec.
Indexed T. M. PALMERI | Date | Date | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "B" CONT. |
|---|---|---|---|---|---|
| T.P. | 0429 | 213 215 | | 212 786 | |
| " | 3246 | 205 802 | 10659 | 202 556 | |
| B.M. C | 0420 | 200 514 | 5708 | 200 094 ✓ | B.M. C |
| T.P. | 4809 | 194 560 | 10763 | 189 751 | |
| U.S.C&G.S. X-977 | 5197 | 193 368 | 6389 | 188 171 ✓ | B.M. U.S.C&G.S. X-977 |
| T.P. | 11 382 | 204 542 | 0208 | 193 160 | |
| " | 11 483 | 215 517 | 0508 | 204 034 | |
| K-1 | 3057 | 212 423 | 6151 | 209 366 ✓ | K-1 C.E. MON. |
| T.P. | 0588 | 201 499 | 11 512 | 200 911 | |
| " | 1379 | 191 776 | 11 102 | 190 397 | |
| " | 6492 | 190 949 | 6309 | 184 457 | |
| " | 1360 | 188 008 | 4301 | 186 648 | |
| " | 0843 | 178 182 | 10669 | 177 339 | |
| " | 3202 | 172 024 | 9360 | 168 822 | |
| B.M. 34-18 | | | 3662 | 168 362 ✓ | B.M. 34-18 ELEV. = 168.560 1970 PRECISE P.V. DR. S. & NACISSA |

0021.64 PORTUGUESE BEND LANDSLIDE T=76°

F.B. 2483 PG. 205

JOB NO. ~~0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET~~

SURVEY BY G.E. DREIER WEATHER HAZY INST. NO 96716

NOTES BY SIEMANN DATE 8-8-72 TIME ROD NO 1713A93

INDEXED T. M. PALMER DATE AUG 16 72 NOTES CHKD. KGD DATE 8 23 72

PORTUGUESE BEND LANDSLIDE

JOB NO. 0021.64 AUG. 1972

RELEVELING LINE "C"

| STATION | BACKSIGHT | | | FORESIGHT | | | DESCRIPTION AND REMARKS |
|---|---|---|---|---|---|---|---|
| | RIGHT MIC. | LEFT. | STADIA | RIGHT MIC. | LEFT. | STADIA | FROM TO |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

NOTE: ANY ADDITIONS OR CHANGES MADE ON THIS SHEET MUST BE MADE OR CHECKED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

Do not extend notes this side of this line.

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

76P926 CE # 308 3-61

PLEASE RETURN TO

**LOS ANGELES COUNTY ENGINEER**

403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

**Do not extend notes this side of this line.**

| STATION | BACKSIGHT RIGHT MIC. | BACKSIGHT LEFT. | BACKSIGHT STADIA | FORESIGHT LINE "C" RIGHT MIC. | FORESIGHT LEFT. | FORESIGHT STADIA | DESCRIPTION AND REMARKS FROM ____ TO ____ | |
|---|---|---|---|---|---|---|---|---|
| P.B. - 9A | | | | | | | ELEV. FEET 414.199 | P.B. 9A SPK. & W. |
| 1 | 47 098 | 348 5 | 82 12 70 | 236 949 | 537 5 | 273 199 74 | | ELEV. PER PAGE 191 |
| 2 | 123 770 | 424 5 | 156 90 66 / 136 | 198 148 | 499 5 | 232 164 68 / 142 | | |
| 3 | 126 131 | 427 5 | 136 116 20 / 156 | 14 078 | 315 5 | 24 4 20 / 162 | | |
| 4 | 212 424 | 513 5 | 215 209 6 / 162 | 141 718 | 442 5 | 144 138 6 / 168 | - 2.673 | |
| AC - 3 | | | | | | 162 / 330 | 411.526 | AC - 3 MON. |
| | 509 423 | | | 590 893 | | | | |
| | | | | 509 423 | | | | |
| | | | | 81 470 | | | | |
| 1 | 104 187 | 405 5 | 111 97 14 | 243 792 | 544 5 | 250 236 14 | | |
| 2 | 83 343 | 384 5 | 90 76 14 / 28 | 168 743 | 469 5 | 174 162 12 / 26 | - 7.382 | |
| P.B. - 9 | | | | | | 28 / 54 | 404.144 | P.B. - 9 MON. |
| | 187 530 | | | 412 535 | | | | |
| | | | | 187 530 | | | | |
| | | | | 225 005 | | | | |
| 1 | 157 308 | 458 5 | 194 120 74 | 73 948 | 374 5 | 110 36 74 | | 335.968 |
| | | | | | | | | 154.990 |
| 2 | 178 660 | 479 5 | 192 164 28 / 102 | 81 042 | 382 5 | 95 67 28 / 102 | + 5.938 | + 180.978 |
| P.I. 5-B | 335 968 | | | 154 990 | | 102 / 204 | 410.082 | P.I 5-B |

F.B. 2483 PG. 206

JOB NO. 0021.64

SURVEY OF PORTUGUESE BEND LANDSLIDE

SURVEY BY DRIER NOTES SIEMANN 8-8-72

INDEXED I. M. PALMERI DATE

WEATHER HAZY, LT. BRZE INST. NO. 96716

TIME ____ ROD NO. 1713A&B

NOTES CHKD R60 DATE 8-23-72

T = 76°

76P526 CE # 308 3-61

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

NOTE: ANY ADDITIONS OR CHANGES TO THIS SHEET MUST BE MADE OR CANCELLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

Do not extend notes this side of this line.

JOB NO. 0021.64 PORTUGUESE BEND LANDSLIDE T=76°
SURVEY BY G.E. DREIER DATE 8-8-72 TIME WEATHER HAZY, LT. BRZ. NOTES BY SIEMANN DATE 8-23-72 NOTES CHKD. ROD NO. 17/13 INSTR. NO. 96716
INDEXED T. M. PALMER DATE AUG 16 72 DATE 8-23-72 F.B. 2483 PG. 207

LINE "C"

| STATION | BACKSIGHT RIGHT MIC. | BACKSIGHT LEFT. | BACKSIGHT STADIA | FORESIGHT RIGHT MIC. | FORESIGHT LEFT. | FORESIGHT STADIA | ELEV. FEET | DESCRIPTION AND REMARKS FROM — TO |
|---|---|---|---|---|---|---|---|---|
| P.I. 5-B | | | | | | | 410.082 | P.I. 5-B SWEET BAY RD. |
| 1 | 140918 | 441 5 | 159 121 38 | 116 109 | 417 5 | 134 98 36 | | |
| 2 | 157 910 | 458 5 | 175 139 36 | 245 842 | 546 5 | 263 227 36 72 | | |
| 3 | 44201 | 345 5 | 56 74 32 24 98 | 125 958 | 426 5 | 136 114 22 94 | -4.753 | |
| T.B.M. #30 | | | | | | 98 192 | 405.329 | T.B.M. #30 CINNAMON LN. |
| | 343029 | | | 487909 | | | | |
| | | | | 343 029 | | | | |
| | | | | +144880 | | | | |
| 1 | 13.937 | 314 5 | ½ 31 13 38 | 183703 | 484 5 | 201 165 36 | | |
| 2 | 229870 | 5305 | 267 191 76 112 | 43232 | 344 5 | 80 6 74 110 | +0.554 | |
| P.I. 4-C | | | | | | 112 122 | 405.883 | P.I. 4-C PLUMTREE |
| | 243807 | | | 226935 | | | | |
| | 226935 | | | | | | | |
| + | 16872 | | | | | | | |
| | | | | | | | | 1009.504 (126 128 254) |
| 1 | 161 091 | 462 5 | 183 139 44 | 88 310 | 389 5 | 112 64 48 | | 442.255 |
| 2 | 299 668 | 600 5 | ½ 299 2283 32 76 | 64 170 | 365 5 | 77 51 26 74 | | +567.249 |
| 3 | 294856 | 595 5 | 308 280 28 104 | 3322 | 304 5 | ½ 18 3 30 104 | +18.610 | |
| 4 | 253 889 | 5545 | 264 242 22 126 | 286 453 | 587 5 | 298 274 24 128 | 424.493 | FRUITTREE #1 |
| FRUITTREE 1 | 1009 504 | | | 442 255 | | | | |

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403 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

Do not extend notes this side of this line.

F.B. 2483 Pg. 208 JOB NO. 0021.64

SURVEY OF Portuguese Bend Landslide

SURVEY BY Preiel NOTES Siemann 8-8-72

INDEXED J. M. PALMERI DATE

T = 78°

WEATHER Hazy, Lt Breeze INST. NO. 96716

TIME 11:30 ROD NO. 17134B

NOTES CHKD KB DATE 8-23-72

| STATION | BACKSIGHT RIGHT MIC. | BACKSIGHT LEFT. | BACKSIGHT STADIA | FORESIGHT LINE "C" RIGHT MIC. | FORESIGHT LEFT. | FORESIGHT STADIA | DESCRIPTION AND REMARKS FROM | TO | ELEV. FEET | |
|---|---|---|---|---|---|---|---|---|---|---|
| FRUITTREE #1 | | | | | | | | | 424.493 | FRUITTREE #1 |
| 1 | 287 728 | 586 5 | 300 274 26 | 255 976 | 556 5 | 266 244 22 | | | | |
| 2 | 4 682 | 305 5 | ½ 19 4 30 | 298 067 | 599 5 | ½ 298 283 30 | | | | |
| 3 | 204 953 | 505 5 | 223 185 38 56 94 | 130 049 | 431 5 | 147 113 34 52 86 | | | | |
| 4 | 215 959 | 516 5 | 244 186 58 | 151 560 | 452 5 | 179 123 56 | | | | |
| 5 | 179 768 | 480 5 | 210 148 62 152 214 | 144 821 | 445 5 | 175 113 62 142 204 | | | -2.867 | |
| S.P.H. G-7 R.M. #1 | 893 090 | | | 980 473 / 893 090 = 87 383 | | 214 418 | | | 421.626 | S.P.H. G-7 R.M. #1 |
| 1 | 119 911 | 420 5 | 125 113 12 | 153 233 | 454 5 | 159 147 12 12 24 | | | -1.093 | |
| S.P.H. G-7 | | | | 119 911 = 33 322 | | | | | 420.533 | S.P.H. G-7 |
| 1 | 156 026 | 457 5 | 161 151 10 | 114 828 | 415 5 | 119 109 10 10 20 | | | +1.352 | |
| S.P.H. G-7 R.M. #2 | 114 826 + 41 198 | | | | | | | | 421.885 | S.P.H. G-7 R.M. #2 |
| 1 | 24 522 | 325 5 | ½ 33 24 18 | 298 031 | 599 5 | ½ 298 288 20 | | | | |

76P526 CE # 308 3-61

PLEASE RETURN TO

**LOS ANGELES COUNTY ENGINEER**

403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES OF THIS SHEET MUST BE MADE OR CHECKED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

**Do not extend notes this side of this line.**

| STATION | BACKSIGHT RIGHT MIC. | BACKSIGHT LEFT. | BACKSIGHT STADIA | FORESIGHT LINE "C" RIGHT MIC. | FORESIGHT LEFT. | FORESIGHT STADIA | DESCRIPTION AND REMARKS FROM ____ TO P.I. 1A ELEV, FEET | |
|---|---|---|---|---|---|---|---|---|
| | 24522 | CONT. | 18 | 298 031 | CONT. | 20 | | |
| 2 | 21410 | 322 5 | 28 14 14 | 259 142 | 560 5 | 267 251 16 | | |
| | | | 32 | | | 36 | | |
| 3 | 153922 | 454 5 | 163 143 20 | 286 598 | 587 5 | 296 276 20 | | |
| | | | 52 | | | 56 | | |
| 4 | 7742 | 308 5 | 13 1 12 | 297 511 | 598 5 | 303 291 12 | | |
| | | | 64 | | | 68 | | |
| 5 | 13953 | 314 5 | 18 8 10 | 287 681 | 588 5 | 295 279 16 | | |
| | | | 74 | | | 84 | | |
| 6 | 34681 | 335 5 | 160 234 52 | 249 718 | 550 5 | 276 222 54 | | |
| | | | 126 | | | 138 | | |
| 7 | 121848 | 422 5 | 126 116 10 | 189 433 | 490 5 | 194 184 10 | - 48,886 | |
| | | | 136 | | | 148 | | |
| P.I. 3A | | | | | | 136 | 372,999 | P.I. 3-A MON. GINGEROOT Ln. |
| | 378078 | | | 1868 114 | | 284 | | |
| | | | | 378 078 | | | | |
| | | | | 1390 036 | | | | |
| | | | | 4 | | | | |
| 1 | 7992 | 308 5 | 18 1/2 7 22 | 294 908 | 595 5 | 304 284 20 | | |
| 2 | 16317 | 317 5 | 26 6 20 | 300 412 | 601 5 | 300 1/2 290 20 | | |
| | | | 42 | | | 40 | | |
| 3 | 4463 | 305 5 | 14 1/2 4 20 | 266 020 | 567 5 | 276 256 20 | | |
| | | | 62 | | | 60 | | -1298.545 |
| 4 | 20152 | 321 5 | 31 9 22 | 198 573 | 499 5 | 210 186 24 | - 39.343 | + 99.376 |
| | | | 84 | | | 84 | | -1199.169 |
| 5 | 50452 | 351 5 | 59 41 18 | 238 632 | 539 5 | 246 230 16 | 333.656 | |
| P.I. 1A | 99376 | | 102 | 1298 545 | | 100 102 202 | ~~P.I. 1A~~ | P.I. 1A |

JOB NO. ~~0301.02~~ 0021.64 PORTUGUESE BEND LANDSLIDE T=80°

SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~

SURVEY BY G.E. DREIER

NOTES BY SIEMANN DATE 8-8-72

INDEXED I. M. PALMERI DATE AUG 16 '72

WEATHER HAZY, LT BRZE

TIME 1:20

NOTES CHKD RGB

INST. NO. 96716

ROD NO. 1713 4B

DATE 8-23-72

F.B. 2483 PG. 209

PLEASE RETURN TO

**LOS ANGELES COUNTY ENGINEER**

403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

**Do not extend notes this side of this line.**

LINE "C"

| STATION | BACKSIGHT RIGHT MIC. | BACKSIGHT LEFT. | BACKSIGHT STADIA | FORESIGHT RIGHT MIC. | FORESIGHT LEFT. | FORESIGHT STADIA | DESCRIPTION AND REMARKS FROM P.I. 1A TO |
|---|---|---|---|---|---|---|---|
| P.I. 1-A | | | | | | | ELEV. FT. 533.656 — P.I. 1-A Narcissa & Fig Tree Bt. SPK. W.Cb. |
| 1 | 141 815 | 442 5 | 153 / 129 24 | 286 252 | 587 5 | 290 / 282 8 | |
| 2 | 16 052 | 317 5 | 22 / 10 12 | 294 242 | 595 5 | 300 / 288 12 | |
| 3 | 16 508 | 317 5 | 21 / 11 36 / 10 | 275 615 | 576 5 | 280 / 270 20 / 10 | |
| 4 | 6 120 | 307 5 | 11 / 1 46 / 10 | 293 840 | 594 5 | 298 / 288 30 / 10 | |
| 5 | 10 305 | 311 5 | 16 / 4 56 / 12 | 265 017 | 566 5 | 271 / 259 40 / 12 | |
| 6 | 29 482 | 330 5 | 36 / 22 68 / 14 | 259 833 | 560 5 | 266 / 252 52 / 14 | |
| 7 | 34 598 | 335 5 | 49 / 19 82 / 30 | 205 275 | 506 5 | 217 / 193 66 / 24 | |
| 8 | 296 815 | 597 5 | 299 / 293 112 / 6 | 60 162 | 361 5 | 67 / 53 90 / 14 | |
| | | | 118 | | | 104 | |
| | 551 695 | | | 1940 236 | | 118 | − 45.556 |
| | | | | 551 695 | | 222 | |
| | | | | − 1388 541 | | | 288.100 — S.P.H.-H-7A |
| SP.H. H-7A Ecc. #1 | | | | | | | ~~S.P.H. H-A~~ Ecc. #1 |
| 1 | 140 118 / ~~60 162~~ | 441 / ~~361 5~~ | 138 / ~~67~~ / ~~53~~ / 142 44 / ~~14~~ | 136 562 | 437 5 | 138 / 134 4 / 4 | + .117 |
| | 136 562 | | | | | 8 | |
| | + 3556 | | | | | | |
| SP.H H-7A Ecc 2 | | | | | | | 288.217 — Ecc. #2 |
| 1 | 135 052 | 436 5 | 137 / 133 4 | 135 952 | 436 5 | 138 / 132 6 | − 0.030 |
| | | | | 135 052 | | 4 | |
| Ecc 4 | | | | + 0900 | | 10 | 288.187 — Ecc. 4 |

T = 84°

WEATHER Sunny & Br. INST. NO 96716

TIME 2:00 ROD NO 1713 AB

NOTES CHKD RGB DATE 8-23-72

JOB NO. 0021.64

SURVEY OF PORTUGUESE Bend Landslide

SURVEY BY Dreier NOTES Maldonado 8-8-72

INDEXED I. M. PALMERI DATE

F.B. 2483 PG. 210

76P526 CE # 308 3-61

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CHANGED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

Do not extend notes this side of this line.

| STATION | BACKSIGHT RIGHT | MIC. | LEFT. | STADIA | FORESIGHT RIGHT | MIC. | LEFT. | STADIA | LINE C DESCRIPTION AND REMARKS FROM 2:35 TO |
|---|---|---|---|---|---|---|---|---|---|
| S.P.H. H-7A Ecc. #4 | | | | | | | | | ELEV. FEET 288.187 Ecc. #4 |
| 1 | 135 | 458 | 436 5 | 138 132 6 | 137 | 040 | 438 5 | 140 134 6 | |
| | | | | | 135 | 458 | | 6 | − 0.054 |
| Ecc. #3 | | | | | | | | 12 | 288.133 Ecc. #3 |
| | | | | | − 1 | 632 | | | |
| | | | | | − 1 | 582 | | | |
| 1 | 138 | 298 | 439 5 | 145 131 14 | 264 | 848 | 565 5 | 270 258 12 | − 4.152 |
| | | | | | 138 | 298 | | 14 | |
| Ecc. #5 | | | | | 126 | 550 | | 26 | 283.981 Ecc. #5 |
| 1 | 265 | 837 | 566 5 | 273 257 16 | 290 | 412 | 591 5 | 298 282 16 | |
| 2 | 86 | 973 | 387 5 | 92 80 12 | 119 | 235 | 420 5 | 126 112 14 | |
| | | | | 28 | | | | 30 | ⊼ GOBLE |
| 3 | 222 | 742 | 523 5 | 232 212 20 | 4 | 282 | 305 5 | 15 4 1/2 22 | |
| | | | | 48 | | | | 52 | |
| 4 | 294 | 388 | 595 5 | 294 1/2 285 1/2 18 | 4 | 445 | 305 5 | 11 4 1/2 14 | |
| | | | | 66 | | | | 66 | |
| 5 | 290 | 885 | 591 5 | 295 285 10 | 7 | 868 | 308 5 | 13 1 12 | |
| | | | | 76 | | | | 78 | 21 |
| 6 | 286 | 378 | 587 5 | 291 281 10 | 20 | 687 | 321 5 | 25 15 10 | + 489.633 |
| | | | | 86 | | | | 88 | − 675.688 |
| 7 | 301 | 617 | 602 5 | 301 1/2 295 1/2 12 | 20 | 968 | 321 5 | 25 15 10 | + 1313.945 |
| | | | | 98 | | | | 98 | |
| 8 | 291 | 005 | 592 5 | 296 286 10 | 31 | 603 | 332 5 | 37 25 12 | |
| | | | | 108 | | | | 110 | + 49.670 |
| 9 | 149 | 808 | 450 5 | 154 144 10 | 176 | 188 | 477 5 | 180 172 8 | |
| | 489.633 | | | 118 | 675 | 688 | | 118 | 333.651 |
| P.I. 1A | 21 | | | | | | | 236 48 | P.I. 1A Bt. SPK. in Cb. Narcissa & Figtree |

JOB NO. ~~0301.02~~ 0021.64 SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~ Portuguese Bend Landslide T-84°
SURVEY BY G.E. Dreier
NOTES BY Maldonado DATE 8-8-72 WEATHER Sunny Br. INST. NO. 96716
INDEXED L. M. PALMERI DATE AUG 16 72 TIME 2:35 ROD NO. 1713AER
NOTES CHKD RDD DATE 8-23-72

F.B. 2483 PG. 211

PLEASE RETURN TO

**LOS ANGELES COUNTY ENGINEER**

403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

**Do not extend notes this side of this line.**

LINE "C"

| STATION | BACKSIGHT RIGHT | MIC. | LEFT. | STADIA | FORESIGHT RIGHT | MIC. | LEFT. | STADIA | DESCRIPTION AND REMARKS FROM | TO |
|---|---|---|---|---|---|---|---|---|---|---|
| P.I. 1A | | | | | | | | | | |
| 1 | 3 | 005 | 304 5 | 17 1/2 3 28 | 295 | 072 | 596 5 | 295 1/2 281 28 | Pt 333.651 | P.I. 1A Narcissa & Fig tree Bt. SPK. in cb. |
| 2 | 22 | 122 | 323 5 | 33 11 22 50 | 287 | 112 | 588 5 | 297 277 20 48 | | |
| 3 | 14 | 812 | 315 5 | 24 4 20 80 | 273 | 893 | 574 5 | 284 262 22 70 | | ⊼ GOBLE |
| 4 | 12 | 442 | 313 5 | 23 1 22 92 | 298 | 630 | 599 5 | 298 1/2 291 14 84 | | |
| 5 | 53 | 345 | 354 5 | 63 43 20 112 | 301 | 060 | 602 5 | 301 1/2 292 18 102 | | |
| 6 | 6 | 105 | 307 5 | 15 1/2 6 18 130 | 252 | 913 | 553 5 | 262 242 20 122 | | |
| 7 | 17 | 832 | 318 5 | 24 10 14 144 | 68 | 282 | 369 5 | 79 57 22 144 144 288 | -54.045 | |
| | 12~~6~~9 | 663 | | | 1776 | 962 | | | | |
| | | | | | 12~~6~~9 | 663 | | | | |
| P.B. 10 | | | | | -16~~50~~47 | 299 | | | 279.606 | P.B. 10 Mon |
| 1 | 15 | 910 | 316 5 | 20 10 10 | 247 | 350 | 548 5 | 254 240 14 | | ⊼ SIEMANN |
| 2 | 43 | 495 | 344 5 | 54 32 22 32 | 298 | 693 | 5~~2~~99 5 | 298 1/2 288 20 34 | | |
| 3 | 10 | 558 | 311 5 | 20 0 20 52 | 29~~8~~9 | 509 | 600 5 | 299 1/2 290 18 52 | | |
| 4 | 13 | 091 | 314 5 | 23 3 20 72 | 279 | 799 ~~799~~ | 580 5 | 288 270 18 70 | | |
| | 83 | 054 | | | 1125 | 351 | | | | |

E

F.B. 2483 Pg. 212

JOB NO. 0021.64

SURVEY OF Portuguese Bend Landslide

SURVEY BY Dreier NOTES Maldonado 8-8-72 Goble

INDEXED I. M. PALMERI DATE

WEATHER Sunny & Br. INST. NO. 96716

TIME 2:35 ROD NO. 1713A&B

NOTES CHKD RAB DATE 8-23-72

T-82°

76P526 CE # 308 3-61

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CHECKED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

Do not extend notes this side of this line.

| STATION | BACKSIGHT RIGHT | MIC. | LEFT. | STADIA | | FORESIGHT RIGHT | MIC. | LEFT. | LINE "C" STADIA | | DESCRIPTION AND REMARKS FROM | TO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 83 | 054 | | | 72 | 1125 | 351 | | | 70 | | |
| 5 | 43 | 255 | 344 | 5 | 53 / 33 / 20 | 275 | 699 | 576 | 5 | 285 / 265 / 20 | | |
| | | | | | 92 | | | | | 90 | | |
| 6 | 85 | 922 | 386 | 5 | 91 / 79 / 12 | 263 | 192 | 564 | 5 | 268 / 258 / 10 | | |
| | | | | | 104 | | | | | 100 | | |
| 7 | 41 | 781 | 342 | 5 | 43 / 39 / 4 | 292 | 651 | 593 | 5 | 294 / 290 / 4 | | |
| | | | | | 108 | | | | | 104 | | |
| 8 | 5 | 328 | 306 | 5 | 7 / 3 / 4 | 279 | 010 | 580 | 5 | 282 / 276 / 6 | | |
| | | | | | 112 | | | | | 110 | | |
| 9 | 29 | 240 | 330 | 5 | 32 / 26 / 6 | 117 | 821 | 418 | 5 | 122 / 112 / 10 | | -2705.572 |
| | | | | | 118 | | | | | 120 | | + 599.691 |
| 10 | 160 | 680 | 461 | 5 | 171 / 149 / 22 | 158 | 849 | 459 | 5 | 172 / 144 / 28 | | -2105.881 |
| | | | | | 140 | | | | | 148 | -69.090 | |
| 11 | 150 | 431 | 451 | 5 | 162 / 138 / 24 | 192 | 999 | 493 | 5 | 204 / 180 / 24 | | |
| | | | | | 164 | | | | | 172 | 210.516 | |
| W. F. 1 | | | | | | | | | | 164 | W. F. 1 | SPK IN STER |
| | 599 | 691 | | | | 2705 | 572 | | | 336 | | |
| 1 | 226 | 610 | 527 | 5 | 234 / 218 / 16 | 165 | 481 | 466 | 5 | 173 / 157 / 16 | | |
| 2 | 160 | 312 | 461 | 5 | 162 / 158 / 4 | 134 | 090 | 435 | 5 | 136 / 132 / 4 | + 2.866 | |
| | | | | | 20 | | | | | 20 | 213.382 | |
| WAY FARER | | | | | | | | | | 20 | WAY FARER | L&T |
| | 386 | 922 | | | | 299 | 571 | | | 40 | | |
| | 299 | 571 | | | | | | | | | | |
| + | 87 | 351 | | | | | | | | | | |

JOB NO. ~~0301.02~~ 002164 SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~ PORTUGUESE BEND LANDSLIDE T. 72
SURVEY BY G. E. DREIER WEATHER OVERCAST INST. NO. 96716
NOTES BY A. L. G. DATE 8-9-72 TIME 9:00 TO ROD NO. 1713A&B
INDEXED J. M. PALMERI DATE AUG 16 72 NOTES CHKD. RGB DATE 8-23-72

F.B. 2483 PG. 213

PLEASE RETURN TO

**LOS ANGELES COUNTY ENGINEER**

403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

**Do not extend notes this side of this line.**

| STATION | BACKSIGHT RIGHT | MIC. | LEFT. | STADIA | FORESIGHT LINE RIGHT | MIC. | LEFT. | STADIA | "C" DESCRIPTION AND REMARKS FROM | TO |
|---|---|---|---|---|---|---|---|---|---|---|
| WAYFARER | | | | | | | | | WAYFARER | L.&T. |
| 1 | 41 | 435 | 342 5 | 45 37 8 | 235 | 280 | 536 5 | 240 230 10 | 213.382 | |
| 2 | 3 | 056 | 304 5 | 7 ½ 3 8 | 282 | 169 | 583 5 | 284 280 4 | | |
| 3 | 32 | 489 | 333 5 | 34 30 16 4 | 293 | 802 | 594 5 | 295 291 14 4 | | |
| 4 | 19 | 011 | 320 5 | 21 17 20 4 | 300 | 622 | 601 5 | 302 298 18 4 | | -1544884 |
| 5 | 30 | 181 | 331 5 | 33 27 24 6 | 281 | 900 | 582 5 | 285 277 22 8 | | + 135.939 |
| 6 | 9 | 767 | 310 5 | 16 2 30 14 44 | 151 | 111 | 452 5 | 158 144 30 14 44 | - 46.224 | -1408945 |
| T.B.M # 31 | | | | | | | | 44 | 167.158 T.B.M # 31 | |
| | 135 | 939 | | | ~~1464~~ 1544 | 884 | | 88 | | |
| 1 | 115 | 581 | 416 5 | 143 87 56 | 230 | 930 | 531 5 | 256 204 52 | - 3.784 | |
| | | | | | 115 | 581 | | 54 | | |
| P. 2 | | | | | 115 | 349 | | 108 | 163.374 | P. 2 |
| 1 | 123 | 669 | 424 5 | 163 83 80 | 204 | 999 | 505 5 | 245 163 82 | | |
| 2 | 124 | 052 | 425 5 | 148 100 48 128 | 204 | 455 | 505 5 | 228 180 48 130 | - 5.306 | |
| P. 3 | | | | | | | | 128 | | |
| | 247 | 721 | | | 409 | 454 | | 258 | 158.068 | P.-3 |
| | | | | | 247 | 721 | | | | |
| | | | | | 161 | 733 | | | | |

T = 72

WEATHER OVER CAST INST. NO. 96716

TIME 9.30 TO ROD NO. 1713 A&B

NOTES CHKD RGB DATE 8-23-72

JOB NO. 0021.64 ~~0301.02~~

SURVEY OF PORTUGUESE BEND LANDSLIDE

SURVEY BY DREIER NOTES A.L. GOBLE 8-9-72

INDEXED T. M. PALMERI DATE

F.B. 2483 PG. 214

76P526 CE # 308 3-61

PLEASE RETURN TO

**LOS ANGELES COUNTY ENGINEER**

403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CHECKED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

**Do not extend notes this side of this line.**

| STATION | BACKSIGHT | | | | FORESIGHT LINE "C" | | | | DESCRIPTION AND REMARKS | |
|---|---|---|---|---|---|---|---|---|---|---|
| | RIGHT | MIC. | LEFT. | STADIA | RIGHT | MIC. | LEFT. | STADIA | FROM | TO |
| P-3 | | | | | | | | | ELEV. FEET 158,068 | P-3 |
| 1 | 151 | 592 | 452 5 | 187 115 72 | 24 | 736 | 325 5 | 49 -1 50 | | |
| 2 | 221 | 789 | 522 5 | 231 211 20 92 | 28 | 443 | 329 5 | 44 12 32 82 | + 10.505 | |
| BM 34-18 | | | | | | | | 92 174 | 168.573 | B.M. 34-18 (POURED MON.) ELEV., 1970 PRECISE = 168,560 |
| | 373 | 381 | | | 53 | 179 | | | | |
| | 53 | 179 | | | | | | | | |
| | + 320 | 202 | | | | | | | | |

0021.64 PORTUGUESE BEND LANDSLIDE

JOB NO. ~~0301.02~~ SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~

SURVEY BY G.E. DREIER

NOTES BY GOBLE DATE 8-9-72

INDEXED L. M. PALMER DATE AUG 16 72

WEATHER OVER CAST

TIME 10.10 TO

NOTES CHKD RGB

INST. NO 96716

ROD NO 1713A&D

DATE 8-23-72

F.B. 2483 PG. 215

Profile No. | Notes Red | Plotted | Job No. 0021.64 | Division No.
X-Sec. No. | Notes Chk'd. | Checked | Survey of PORTUGUESE BEND
Date | Date | Date | Survey by DREIER Notes DREIER Date 8-10-72
Date 8-23-72 | Date | Map No. | Indexed T. M. PALMERI Date AUG 16 '72

F. B. 2483 PG. 217

JOB No. 0021.64

# PORTUGUESE BEND LANDSLIDE

## LINE "D" AUG. 1972 RELEVELING

DREIER
MALDONADO
GOBLE
SIEMANN
OHASHI

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| | | | | |

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 Los Angeles County Engineering Bldg.

76-L-298 CE 307 5-66

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

F. B. 2483 PG. 218 | Job No. 0021.64 | Division No. | Notes Red | Plotted | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | Date | No.
Survey by DREIER | Notes DREIER 8-10-72 | Notes Chk'd. CLB | Checked 8-23-72 | X-Sec.
Indexed I. M. PALMERI | Date | Date | Date | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE D |
|---|---|---|---|---|---|
| B.M. 50-13 | 1 453 | 209 638 | | 208 185 | B.M. 50-13 (ELEV. PER PAGE 198 UNADJ.) 1970 PRECISE ADJ = 208.157 |
| T.P. | 6 003 | 207 863 | 7 778 | 201 860 | |
| " | 11 850 | 217 161 | 2 552 | 205 311 | |
| | 11 122 | 227 176 | 1 107 | 216 054 | |
| | 11 265 | 238 209 | 0 232 | 226 944 | |
| | 11 768 | 249 487 | 0 490 | 237 719 | |
| | 11 482 | 260 661 | 0 308 | 249 179 | |
| | 10 860 | 271 269 | 0 252 | 260 409 | |
| | 11 307 | 281 703 | 0 873 | 270 396 | |
| | 10 593 | 290 776 | 1 520 | 280 183 | |
| | 11 175 | 300 563 | 1 388 | 289 388 | |
| | 10 780 | 310 920 | 0 423 | 300 140 | |
| " | 5 798 | 314 741 | 1 977 | 308 943 | |
| T.P. | 5 207 | 315 580 | 4 368 | 310 373 | |
| SHIELDS | 4 077 | 314 415 | 5 242 | 310 338 | SHIELDS, PRECAST mon. |
| T.P. | 5 792 | 314 137 | 6 070 | 308 345 | |
| " | 0253 | 303 867 | 10 513 | 303 624 | |
| | 1 210 | ~~316 994~~ 293 140 | 11 917 | ~~316 784~~ 291 960 | |
| | 0 582 | 283 622 | 10 130 | ~~30 864~~ 283 030 | |
| | 0 593 | 272 883 | 11 332 | 272 290 | |
| " | 0 465 | 262 453 | 10 895 | 261 988 | |

CONT.

76-L-298 CE 307 5-66

PLEASE RETURN TO
**LOS ANGELES COUNTY ENGINEER**
403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "D" |
|---|---|---|---|---|---|
| CONT. | | 262 453 | | | CONT. |
| T.P | 0 358 | 252 223 | 10 588 | 251 865 | |
| " | 0 483 | 241 316 | 11 390 | 240 833 | |
| | 0 432 | 230 241 | 11 507 | 229 809 | |
| | 0 425 | 219 416 | 11 250 | 218 991 | |
| | 0 722 | 208 448 | 11 690 | 207 726 | |
| | 3 548 | 201 813 | 10 183 | 198 265 | |
| J-5 | 8 573 | 203 536 | 6 850 | 194 963 | J-5 |
| | 3 037 | 205 911 | 0 662 | 202 874 | |
| RADIAL 2, ECC 2 | 7 238 | 210 887 | 2 262 | 203 649 | RADIAL 2, ECC. 2 |
| J-4A | 2 523 | 205 777 | 8 333 | 202 554 | J-4A |
| | 3 872 | 197 887 | 11 062 | 194 015 | |
| J-3 | 6 167 | 198 551 | 5 503 | 192 384 | J-3 |
| | 1 488 | 196 897 | 3 142 | 195 409 | |
| | 4 110 | 189 820 | 11 187 | 185 710 | |
| J-1 | 8 208 | 189 995 | 8 633 | 181 787 | J-1 |
| | 8 698 | 193 921 | 4 772 | 185 223 | |
| | 11 042 | 203 950 | 1 013 | 192 908 | |
| | 11 697 | 214 769 | 0 878 | 203 072 | |
| | 10 745 | 225 004 | 0 510 | 214 259 | |
| J-1A | 10 841 | 226 892 | 8 953 | 216 051 | J-1A |

Profile Notes Red ____ Plotted ____ Job No. 002164 Division No. ____
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chk'd. KHF Checked ____ Survey by DREIER Notes DREIER Date 8-10-72
No. ____ Date 8-25-72 Date ____ Map No. ____ Index M. PALMERI Date NOV 16 '72

F. B. 2483 PG. 219

76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

F. B. 2483 PG. 220 | Job No. 002164 Division No. 11 Notes Red Date Plotted Profile
Survey of Portuguese Bend Date Checked 8-23-72 No. X-Sec.
Survey by Dreier Notes Dreier 8-10-72 Notes Chk'd. RB Date No.
Indexed J. M. PALMER Date Date

| STATION | B. S. | H. I. | F. S. | ELEV. | | |
|---|---|---|---|---|---|---|
| | | 226 892 | | | | |
| T. P. cont. | 9912 | 236 452 | 0352 | 226540 | | |
| | 11 368 | 247 512 | 0308 | 236144 | | |
| | 9 684 | 256 782 | 0414 | 247098 | | |
| | 9 718 | 266 231 | 0269 | 256513 | | |
| | 10 568 | 276 221 | 0578 | 265653 | | |
| | 11 514 | 287 503 | 0232 | 275989 | | |
| | 9 772 | 294 125 | 3 150 | 284353 | | |
| BLAKESLEY | 11 470 | 300 725 | 4 860 | 289 265 | BLAKESLEY | PRECAST MON. |
| | 1 232 | 300 289 | 1 678 | 299 047 | | |
| | 1 292 | 290 662 | 10 919 | 289 370 | | |
| | 0 939 | 280 969 | 10 622 | 280 030 | | |
| | 4 489 | 273 831 | 11 627 | 269 342 | | |
| | 6 521 | 279 122 | 1 240 | 272 591 | | |
| | 9 923 | 287 982 | 1 063 | 278 059 | | |
| | 11 182 | 298 981 | 0 253 | 287 729 | | |
| | 11 123 | 309 587 | 0 487 | 298 424 | | |
| P-4 | 0 430 | 302 049 | 7 918 | 301 629 | P-4 | PRECAST MON. |
| | 0 327 | 291 166 | 11 210 | 290 839 | | |
| | 0 308 | 279 502 | 11 982 | 279 194 | | |
| | 0 371 | 268 220 | 11 653 | 267 849 | | |
| | 0 473 | 257 369 | 11 324 | 256 896 | | |

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | LINE "D" | |
|---|---|---|---|---|---|---|
| T.P. | | 257 369 | | | CONT. | |
| | 0242 | 246 298 | 11 313 | 246 056 | | |
| | 0 672 | 235 129 | 11 841 | 234 457 | | |
| | 0 598 | 223 999 | 11 728 | 223 401 | | |
| | 1 078 | 213 174 | 11 903 | 212 096 | | |
| | 0 428 | 201 809 | 11 793 | 201 381 | | |
| | 0 912 | 191 943 | 10 778 | 191 031 | | |
| | 0 659 | 181 483 | 11 119 | 180 824 | | |
| | 1 633 | 172 035 | 11 081 | 170 402 | | |
| B.M. 34-18 | | | 3 549 | 168 486 | B.M. 34-18 | ELEV. = 168.560 1970 ADJ. PRECISE |

Profile Notes Red ____ Plotted ____ Job No. 0021.64 Division No. 11 F. B. 2483 PG. 22
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chk'd VLD Checked ____ Survey by DREIER Notes DREIER Date 8-10-72
No. ____ Date 8-15-72 Date ____ Map No. ____ Index M. PALMERI Date AUG 16 '72

0021.64 PORTUGUESE BEND

JOB NO. ~~0301.02~~ SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~

F.B. 2483 PG 223

SURVEY BY DREIER WEATHER INST. NO.

NOTES BY DATE 8-11-72 TIME ROD NO.

INDEXED T. M. PALMERI DATE AUG 16 '72 NOTES CHKD RBB DATE 8-23-72

JOB NO. 0021.64

# PORTUGUESE BEND LANDSLIDE

## LINE "E" AUG. 1972 LEVELING

DREIER
MALDONADO
GOBLE
SIEMANN

| STATION | BACKSIGHT | | | FORESIGHT | | | DESCRIPTION AND REMARKS |
|---|---|---|---|---|---|---|---|
| | RIGHT MIC. | LEFT. | STADIA | RIGHT MIC. | LEFT. | STADIA | FROM BM. 3 TO |

NOTE: ANY ADDITIONS OR CHANGES TO THIS SHEET MUST BE MADE OR CLEARED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

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

Do not extend notes this side of this line.

76P826 CE # 306 3-61

PLEASE RETURN TO

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

**Do not extend notes this side of this line.**

| STATION | BACKSIGHT RIGHT | BACKSIGHT MIC. | BACKSIGHT LEFT. | BACKSIGHT STADIA | FORESIGHT RIGHT | FORESIGHT MIC. | FORESIGHT LEFT. | FORESIGHT STADIA | DESCRIPTION AND REMARKS FROM LINE "E" TO |
|---|---|---|---|---|---|---|---|---|---|
| B.M. 34-14A | | | | | | | | | ELEV. FEET 231.260 B.M. 34-14A (U.S.C.&G.S. T 1053) ELEV. 231.260, 1970 PRECISE ADJ. |
| 1 | 138 | 271 | 439 5 | 151 / 125 26 | 145 | 974 | 446 5 | 159 / 131 28 | |
| | | | | | 138 | 271 | | 26 | |
| | | | | | - 7 | 703 | | 54 | - 0.253 |
| B.M. 34-15A | | | | | | | | | 231.007 B.M. 34-15A (By 6068) B.SPK. IN CURB |
| 1 | | | 319 5 | 31 / 5 26 | 300 | 350 | 601 5 | 1 300 / 2 289 22 | |
| | 18 | 075 | | | | | | | |
| 2 | 11 | 369 | 312 5 | 20 / 2 18 | 279 | 560 | 580 5 | 288 / 270 18 | |
| | | | | 44 | | | | 40 | |
| 3 | 34 | 028 | 335 5 | 67 / 1 66 | 237 | 500 | 538 5 | 272 / 202 70 | |
| | | | | 110 | | | | 110 | |
| 4 | 98 | 170 | 399 5 | 116 / 80 36 | 284 | 522 | 585 5 | 300 / 268 32 | |
| | | | | 146 | | | | 142 | |
| 5 | 71 | 481 | 372 5 | 82 / 60 22 | 290 | 559 | 591 5 | 303 / 277 26 | |
| | | | | 168 | | | | 168 | |
| 6 | 15 | 781 | 316 5 | 28 / 2 26 | 295 | 000 | 596 5 | 306 / 284 22 | |
| | | | | 194 | | | | 190 | |
| 7 | 18 | 658 | 319 5 | 29 / 7 22 | 292 | 520 | 593 5 | 302 / 282 20 | |
| | | | | 216 | | | | 210 | |
| 8 | 118 | 249 | 419 5 | 121 / 115 6 | 180 | 833 | 481 5 | 184 / 176 8 | |
| | | | | 222 | | | | 218 | - 58.236 |
| | 385 | 811 | | | 2160 | 844 | | 222 | |
| K-10A | | | | | 385 | 811 | | 440 | 172.771 K-10A B.SPK. W. & T. |
| | | | | | - 1775 | 033 | | | |
| 1 | 126 | 160 | 427 5 | 130 / 122 8 | 224 | 721 | 525 5 | 229 / 219 10 | - 3.234 |
| K-10 B | | | | | 126 | 160 | | 8 | 169.537 K-10B 2" I.P. |
| | | | | | - 98 | 561 | | 18 | CONT. |

75°

WEATHER HAZE INST. NO. 96716

TIME 9:30 ROD NO. 1713A-B

NOTES CHKD. RGB DATE 8-23-72

JOB NO. 0021.64

SURVEY OF PORTUGUESE BEND

SURVEY BY DREIER NOTES DREIER 8-11-72

INDEXED I. M. PALMER DATE

F.B. 2483 PG. 224

76P526 CE # 308 3-61

PLEASE RETURN TO

**LOS ANGELES COUNTY ENGINEER**

403 LOS ANGELES COUNTY ENGINEERING BLDG.

[illegible] ANY ADDITIONS OR CHANGES [illegible] IS SHEET MUST BE MADE OR [illegible] IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

**Do not extend notes this side of this line.**

JOB NO. 0301.02 SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~ PORTUGUESE BEND LANDSLIDE

SURVEY BY G.E. DREIER

NOTES BY T. M. PALMERI DATE 8-11-72

INDEXED DATE [illegible] 16 '72

WEATHER HAZE - OVERCAST INST. NO. 96716

TIME 10:00 ROD NO. 1213A-B

NOTES CHKD KGB DATE 8-13-72

F.B. 2483 PG. 225

LINE "E"

| STATION | BACKSIGHT RIGHT | BACKSIGHT MIC. | BACKSIGHT LEFT. | BACKSIGHT STADIA | | FORESIGHT RIGHT | FORESIGHT MIC. | FORESIGHT LEFT. | FORESIGHT STADIA | | DESCRIPTION AND REMARKS FROM ELEV. FEET | TO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| K-10B | | | | | CONT. | | | | | | 169.537 | K-10B 2" I.P |
| 1 | 246 | 779 | 547 5 | 254<br>238 | 16 | 288<br>246 | 127<br>779 | 589 5 | 295<br>281 | 14<br>16<br>30 | - 1.357 | |
| | | | | | | - 41 | 348 | | | | | |
| K-10C | | | | | | | | | | | 168.180 | ~~B.M.~~ K-10C L.&T. |
| 1 | 148 | 561 | 449 5 | 150<br>146 | 4 | 149<br>148 | 686<br>561 | 450 5 | 151<br>147 | 4<br>4<br>8 | - 0.037 | DIST. SPK DOWN TO MON |
| SPK OVER K-10 | | | | | | - 1 | 125 | | | | 168.143 | -0.930 = |
| K-10 | | | | | | | | | | | | K-10 ELEV = 167.213 |
| 1 | 94 | 945 | 395 5 | 100<br>88 | 12 | 236<br>94 | 460<br>945 | 537 5 | 242<br>230 | 12<br>12<br>24 | - 4.643 | |
| | | | | | | - 141 | 515 | | | | | |
| K-9A | | | | | | | | | | | 163.500 | K-9A SPK. W. &T. |
| 1 | 58 | 532 | 359 5 | 64<br>52 | 12 | 111<br>58 | 069<br>532 | 412 5 | 115<br>107 | 8<br>12<br>20 | - 1.724 | |
| | | | | | | - 52 | 537 | | | | | |
| K-9B | | | | | | | | | | | 161.776 | K-9B. B.SPK IN 2" I.P. |
| 1 | 110 | 491 | 411 5 | 114<br>106 | 8 | 60 | 288 | 361 5 | 65<br>55 | 10 | | |
| 2 | 104 | 420 | 405 5 | 109<br>99 | 10<br>18 | 226 | 251 | 527 5 | 231<br>221 | 10<br>20<br>18<br>38 | - 2.350 | |
| | 214 | 911 | | | | 286<br>214 | 539<br>911 | | | | | |
| K-9 | | | | | | - 71 | 628 | | | | 159.426 | K-9 1" I.P. |
| 1 | 122 | 157 | 423 5 | 125<br>119 | 6 | 166<br>122 | 901<br>157 | 467 5 | 170<br>162 | 8<br>6<br>14 | - 1.468 | |
| K-8A | | | | | CONT. | - 44 | 744 | | | | 157.958 | K-8A SPK., W. &T. |

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

**Do not extend notes this side of this line.**

| STATION | BACKSIGHT RIGHT | BACKSIGHT MIC. | BACKSIGHT LEFT. | BACKSIGHT STADIA | FORESIGHT RIGHT | FORESIGHT MIC. | FORESIGHT LEFT. | FORESIGHT STADIA | LINE "E" DESCRIPTION AND REMARKS FROM ____ TO ____ | |
|---|---|---|---|---|---|---|---|---|---|---|
| K-8A | | | | | | | | | ELEV. FEET | |
| 1 | 30 | 740 | 331 5 | 39 21 18 | 103 | 789 | 404 5 | 111 95 16 | 157.958 | K-8A CONT |
| | | | | | 30 | 740 | | 18 | | |
| | | | | | -73 | 049 | | 34 | -2.397 | |
| K-8B | | | | | | | | | 155.561 | K-8B B. SPK IN 2" I.P. |
| 1 | 58 | 471 | 359 5 | 70 46 24 | 269 | 690 | 570 5 | 284 254 30 | | |
| 2 | 8 | 925 | 309 5 | 1/2 18 8 20 44 | 276 | 708 | 577 5 | 286 266 20 50 | | |
| 3 | 44 | 912 | 345 5 | 55 33 22 66 | 301 | 444 | 602 5 | 1/2 301 289 24 74 | | |
| 4 | 7 | 136 | 308 5 | 1/2 20 7 26 92 | 275 | 054 | 576 5 | 284 266 18 92 | | |
| 5 | 29 | 422 | 330 5 | 40 18 22 114 | 281 | 452 | 582 5 | 290 272 18 110 | | |
| 6 | 47 | 856 | 348 5 | 51 43 8 122 | 207 | 594 | 508 5 | 213 201 12 122 | | |
| | 196 | 722 | | | 1611 | 942 | | 122 | -46.431 | |
| | | | | | 196 | 722 | | 244 | | |
| W-3 | | | | | -1415 | 220 | | | 109.130 | W-3, MON. ON ROAD FILL WITH CRACKS. |
| 1 | 129 | 182 | 430 5 | 135 123 12 | 156 | 217 | 457 5 | 164 148 16 | | |
| 2 | 125 | 009 | 426 5 | 132 118 14 26 | 8 | 783 | 309 5 | 1/2 13 8 10 26 | | |
| 3 | 290 | 241 | 591 5 | 292 288 4 30 | 6 | 240 | 307 5 | 8 4 4 30 | | |
| 4 | 288 | 360 | 589 5 | 290 286 4 34 | 22 | 279 | 323 5 | 24 20 4 34 | +26.857 | |
| 5 | 249 | 349 | 550 5 | 251 247 4 38 | 70 | 024 | 371 5 | 72 68 4 38 | | |
| | 1082 | 141 | | | 263 | 543 | | 38 | | |
| K-5 | 263 | 543 | | | | | | 76 | 135.987 | K-5 PRECAST MON. |
| | +818 | 598 | | | | | | | | |

F.B. 2483 PG. 226
JOB NO. 0021.64
SURVEY OF PORTUGUESE BEND LANDSLIDE
SURVEY BY DREIER NOTES DREIER 8-11-72
INDEXED L. M. PALMERI DATE
WEATHER OVERCAST 77°
TIME 1050
NOTES CHKD RCB
INST. NO. 96716
ROD NO. 1713A-B
DATE

76P526 CE # 308 3-61

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES TO THIS SHEET MUST BE MADE OR CHANGED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE

Do not extend notes this side of this line.

JOB NO. 0021.64 SURVEY OF PORTUGUESE BEND E.A. CO. PRECISE LEVEL NET
SURVEY BY S.E. DREIER WEATHER HAZY SUN INST. NO. 2676
NOTES BY S.E. DREIER DATE 8-11-72 TIME 11:30 ROD NO. 1733-B
INDEXED T. M. PALMER DATE AUG 16 '72 NOTES CHKD [illegible] DATE 8-23-72
F.B. 2483 Pg. 227

LINE E

| STATION | BACKSIGHT RIGHT MIC. | BACKSIGHT LEFT. | BACKSIGHT STADIA | FORESIGHT RIGHT, MIC. | FORESIGHT LEFT. | FORESIGHT STADIA | DESCRIPTION AND REMARKS FROM | TO |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | ELEV. FEET | |
| K-5 | | | 70 | | | 250 | 135.987 | K-5 CONT. |
| 1 | 68 919 | 369 5 | 66 4 | 248 242 | 549 5 | 246 4 | | |
| 2 | 25 713 | 326 5 | 27 4<br>23 8 | 298 022 | 599 5 | 300<br>296 4<br>8 | | |
| 3 | 14 415 | 315 5 | 16<br>12 4<br>12 | 294 601 | 595 5 | 296<br>292 4<br>12 | | |
| 4 | 3 820 | 304 5 | 6<br>½ 3 6<br>18 | 230 540 | 531 5 | 233<br>227 6<br>18 | | |
| 5 | 115 090 | 416 5 | 119<br>111 8<br>26 | 201 190 | 502 5 | 204<br>198 6<br>24 | | |
| | 227 957 | | | 1272 595 | | 26 | | |
| | | | | 227 957 | | 50 | - 34.273 | |
| | | | | 1044 638 | | | | |
| K-5 AUX | | | | | | | 101.714 | K-5 AUX. PRECAST MON. |
| 1 | 20 357 | 321 5 | 30<br>10 20 | 294 402 | 595 5 | 303<br>285 18 | | |
| 2 | 14 748 | 315 5 | 19<br>9 10<br>30 | 292 227 | 593 5 | 297<br>287 10<br>28 | | |
| 3 | 10 652 | 311 5 | 14<br>6 8<br>38 | 299 202 | 600 5 | ½ 299<br>295 8<br>36 | | |
| 4 | 9 614 | 310 5 | 14<br>4 10<br>48 | 301 353 | 602 5 | ½ 301<br>295 12<br>48 | | |
| 5 | 26 906 | 327 5 | 33<br>19 14<br>62 | 297 697 | 598 5 | 302<br>292 10<br>58 | | |
| 6 | 10 433 | 310 5 | ½ 29<br>10 38<br>100 | 296 398 | 597 5 | ½ 296<br>276 42<br>200 | | |
| 7 | 153 426 | 454 5 | 168<br>138 30<br>130 | 241 902 | 542 | 260<br>222 38<br>138 | | |
| | 246 126 | | CONT. | 2023 181 | | | | |

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LINE "E"

| STATION | BACKSIGHT RIGHT | BACKSIGHT MIC. | BACKSIGHT LEFT. | BACKSIGHT STADIA | FORESIGHT RIGHT | FORESIGHT MIC. | FORESIGHT LEFT. | FORESIGHT STADIA | DESCRIPTION AND REMARKS FROM ____ TO ____ |
|---|---|---|---|---|---|---|---|---|---|
| | 246 | 136 | | 130 | 2023 | 181 | | 138 | ELEV. FEET CONT |
| 8 | 191 | 278 | 492 5 | 194 188 6 136 | 141 | 102 | 442 5 | 143 139 4 142 136 278 | |
| | +437 | 414 | | | 2164 | 283 | | | |
| | | | | | 437 | 414 | | | |
| | | | | | -1726 | 869 | | | - 56.656 |
| T.B.M. 28 | | | | | | | | | 45.058 T.B.M. 28 B.SPK. |
| 1 | 208 | 932 | 509 5 | 223 193 30 | 174 | 478 | 475 5 | 190 158 32 30 62 | + 1.130 |
| | 174 | 478 | | | | | | | |
| | +34 | 454 | | | | | | | |
| K-3A | | | | | | | | | 46,188 K-3A PRECAST MON. |
| 1 | 89 | 127 | 390 5 | 95 83 12 | 299 | 232 | 600 5 | 1299 1293 12 | |
| 2 | 36 | 347 | 337 5 | 46 26 20 32 | 264 | 912 | 565 5 | 279 249 30 42 | |
| 3 | 136 | 893 | 437 5 | 154 118 36 68 | 34 | 737 | 335 5 | 54 14 40 82 | |
| 4 | 273 | 683 | 574 5 | 278 268 10 78 | 7 | 992 | 308 5 | 11 3 8 90 | |
| 5 | 224 | 688 | 525 5 | 227 221 6 84 | 90 | 468 | 391 5 | 92 88 4 94 84 178 | + 2.080 |
| | 760 | 738 | | | 697 | 341 | | | |
| | 697 | 341 | | | | | | | |
| | +63 | 397 | | | | | | | |
| K-2A | | | | | | | | | 48.268 K-2A 2" I.P. |
| 1 | 73 | 003 | 374 5 | 76 70 6 | 296 | 388 | 597 5 | 300 292 8 | |
| 2 | 14 | 478 | 315 5 | 19 9 10 16 | 293 | 870 | 594 5 | 297 289 8 16 | CONT. |
| | 87 | 481 | | | 590 | 258 | | | |

F.B. 2483 PG. 228

JOB NO. 0021.64

SURVEY OF PORTUGUESE BEND LANDSLIDE

SURVEY BY DREIER NOTES DREIER 8-11-72

INDEXED T. M. PALMERI DATE

WEATHER HAZE-SUN INST. NO 96716

TIME 1100 ROD NO 1713A-B

NOTES CHKD RGB DATE 8-23-72

76P526 CE # 308 3-61

PLEASE RETURN TO

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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**Do not extend notes this side of this line.**

JOB NO. ~~0301.02~~ 0021.64 SURVEY OF ~~L.A. CO. PRECISE LEVEL NET~~ PORTUGUESE BEND

SURVEY BY DREIER

NOTES BY DREIER DATE 8-11-72

INDEXED L. M. PALMERI DATE AUG 16 72

WEATHER HAZE-SUN INST. NO. 96716

TIME 1:40 ROD NO. 1713A-B

NOTES CHKD. R.G.B. DATE 8-23-72

F.B. 2483 PG. 229

| STATION | BACKSIGHT RIGHT | BACKSIGHT MIC. | BACKSIGHT LEFT. | BACKSIGHT STADIA | FORESIGHT RIGHT | FORESIGHT MIC. | FORESIGHT LEFT. | FORESIGHT STADIA | DESCRIPTION AND REMARKS FROM LINE E TO |
|---|---|---|---|---|---|---|---|---|---|
| CONT. | 87 | 481 | | 16 | 590 | 258 | | 16 | CONT. |
| 3 | 139 | 575 | 440 5 | 158 / 120 38 | 119 | 237 | 420 5 | 140 / 98 42 | |
| 4 | 221 | 808 | 522 5 | 231 / 211 20 | 8 | 151 | 309 5 | 19 / ½ 8 22 | |
| 5 | 298 | 417 | 599 5 | 298 / ½ 269 58 / 58 | 169 | 892 | 470 5 | 195 / 143 64 / 52 | |
| 6 | 253 | 250 | 554 5 | 279 / 227 116 / 52 | 140 | 110 | 441 5 | 163 / 117 116 / 46 | |
| 7 | 10 | 522 | 311 5 | 21 / ½ 10 168 / 22 | 290 | 783 | 591 5 | 298 / 282 162 / 16 | |
| 8 | 19 | 703 | 320 5 | 24 / 14 190 / 10 | 288 | 913 | 589 5 | 300 / 276 178 / 24 | |
| 9 | 133 | 167 | 434 5 | 150 / 116 200 / 34 | 282 | 519 | 583 5 | 293 / 271 202 / 22 | |
| 10 | 31 | 540 | 332 5 | 38 / 24 234 / 14 | 296 | 080 | 597 5 | 305 / 287 224 / 18 | |
| 11 | 72 | 232 | 373 5 | 86 / 58 248 / 28 | 180 | 862 | 481 5 | 198 / 162 242 / 36 | |
| 12 | 197 | 068 | 498 5 | 219 / 175 276 / 44 | 194 | 006 | 495 5 | 219 / 169 278 / 50 | |
| 13 | 171 | 700 | 472 5 | 208 / 134 320 / 74 | 136 | 335 | 437 5 | 171 / 101 328 / 70 | |
| 14 | 124 | 415 | 425 5 | 142 / 106 394 / 36 | 289 | 883 | 590 5 | 307 / 271 398 / 36 | |
| | 1760 | 878 | | 430 | 2987 | 029 | | 434 | |
| | | | | | 1760 | 878 | | 430 | 40.228 |
| | | | | | 1226 | 151 | | 864 | |
| P.B. 8 | | | | | | | | | 8.040 P.B. 8 SPKIN ROCK GROIN PREVIOS ELEV. 8.03± |