Notes Ck'd by	Survey of L.A. Co. Precise Level Net	F. B. 2845	Pg. 5
Map No.	JN 0301.02 Tape Std °F		
Office Work	Surveyed by E.E. Brooks		
Checked	Notes E. E. Brook Date Mar-Apr 61		
Date	Indexed F. E. Oh MAY 1 61		

J.N. 0301.02

L.A.Co. Precise Level Net

Line No. 109

Differences of Elevation

From B.M.107-9 at Palmdale Blvd. and 90th St.E

To B.M.106-38 on Pearblossom Hwy. 0.5 mi. E of 165th St.E

Palmdale Blvd. E to 165th St.E then S on 165th St.E to Pearblossom Hwy. then E to closing B.M.

page 5 to page

runs

109-4 to U.S.B.M.1975

to U.S.B.M.1976

109-18 to U.S.B.M.1954

109-20 to U.S.B.M.1955

page to page

B.M.descriptions

See F.B.2844 page 5 to page 34 line 109

2840 page line 107

F. 2418 pages44-45 line 106

F.E.Brooks
D.LeGault
A.R.Barilotti
R.R.Rodriguez
G.R.Esquer

Microfilmed June 85

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.

RETURN TO LOS ANGELES COUNTY ENGINEER 900 LOS ANGELES COUNTY ENGINEERING BLDG.

763095 CE #247—7-53

F. B. 2845 PG. 6

Route of Level Line No. 109

from B.M.	Route traveled	to B.M.	At	miles
107-9		107-9A	Palmdale Blvd and 90 Th St E.	0.01
107-9A	Palmdale Blvd	109-1A	95 Th St. E	0.51
109-1A	" "	109-1	" " "	0.63
109-1	" "	109-2	100 Th St. E.	1.05
109-2	" "	109-3	105 Th St E.	1.53
109-3	" "	109-3A	" " "	1.69
109-3A	" "	109-4A	110 Th St E.	2.03
109-4A	" "	109-4B	" " "	2.05
109-4B	" "	109-4	" " "	2.07
109-4	" "	109-5	116 Th St E.	2.52
109-5	" "	109-5A	" " "	2.41
109-5A	" "	109-6A	120 Th St. E.	3.44
109-6A	" "	109-6	" " "	3.08
109-6	" "	109-7	125 Th St. E.	3.56
109-7	" "	109-7A	" " "	3.69
109-7A	" "	109-8A	130 Th St E	4.06
109-8A	" "	109-8	" " "	4.10
109-8	" "	109-9	135 Th St. E.	4.58
109-9	" "	109-9A	" " "	4.62
109-9A	" "	109-10A	140 Th St E.	5.08
109-10A	" "	109-10	" " "	5.19
109-10	" "	109-11	145 Th St. E.	5.62
109-11	" "	109-11A	" " "	5.71
109-11A	" "	109-12	150 Th St. E.	6.18
109-12	" "	109-13A	0.45 mi E. of 150 Th St. E.	6.66
109-13A	" "	109-13	" " " "	6.68
109-13	" "	109-13B	" " "	6.76
109-13B	" "	109-14	160 Th St. E.	7.09
109-14	" "	109-14A	" " "	7.23
109-14A	" "	109-15A	165 Th St. E.	7.73
109-15A	" "	109-15	" " "	7.75
109-15	S. on 165 Th St. E	109-16	Ave R.	8.27

Cont. on Page 7

RETURN TO
LOS ANGELES COUNTY ENGINEER
1700 Los Angeles County Engineering Bldg.

Do not extend notes this side of this line.

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

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

Survey of L.A. Co. Precise Level Net
JN 0301.02 Tape Std °F
Surveyed by F. E. Brooks
Notes F. E. Brooks Date Mar-Apr 61
Indexed M. E. Orr MAY 12 '61

F. B. 2845 Pg. 7

Route of Level Line No. 109 cont. from B.M. 109-16; 8.27 miles E of B.M. 107-9 at 90th ST.E

from B.M.	Route traveled	to B.M.	At	miles
109-16	165 Th St. E.	109-17	1 Mile S. of Palmdale Blvd	8.87
109-17	" " "	109-18	Ave S.	9.34
109-18	" " "	109-19	2 Mile S. of Palmdale Blvd	9.89
109-19	" " "	109-19A	" " " " "	9.96
109-19A	" " "	109-20	Ave T	10.41
109-20	" " "	109-21	Ave T8	10.91
109-21	" " "	109-21A	" "	10.98
109-21A	" " "	109-22	3 Mile S. of Palmdale Blvd	11.45
109-22	" " "	109-23A	4 " " " " "	11.84
109-23A	" " "	109-23	" " " " " "	11.92
109-23	" " "	109-24	4.6 " " " " "	12.48
109-24	" " "	106-37	Pearblossom Hwy	
106-37	E. on Pearblossom Hwy	106-38	0.6 Mile W. of 165 Th St. E.	

Side runs off line no. 109

from B.M.	At	to USBM	At	miles
109-4	Palmdale Blvd and 110 Th St. E.	1975	Ave Q and 110 Th St. E.	
109-6	Palmdale Blvd and 120 Th St. E	1976	Ave Q and 120 Th St. E.	
109-18	165 Th St. E and Ave. S	1954	Ave. S and 170 Th St. E.	
109-20	165 Th St. E and Ave. T	1955	165 Th St. E and Ave. T	

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 LOS ANGELES COUNTY ENGINEER 700 Los Angeles County Engineering Bldg.

76F3095 SAE #247 11-58

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear & Wind Inst. No. 15066
Notes by Barlotti Time 10:10 to 10:15 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301 02
From BM 107-9 To BM 107-9A
Date 3-24-61
Indexed H. E. OTT MAY 12 '61

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	5038		057			5307		056		BM 107-9
	4981		055			5251		058		Palmdale Blvd and 90th St. E.
1	4926		112			5193		114		
	14.945	4.982		112		15.751	5.250		114	see F.B. 2840 -
										BM 107-9A
										Palmdale Blvd and 90th St. E.
										see F.B. 2840 -
										T LeGault
										Summation of Run
										From B.M. 107-9
										To B.M. 107-9A
										Total Backsights = + 4.982
										Total Foresights = − 5.250
										Diff. Elev. = − 0.268
										Backsight stadia = .112
										Foresight Stadia = .114
										Total Stadia = .226
										= .01 mi.

F.B. 2846 P.G. 9

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No 15066
Notes by Barlotti Time 10:15 to 10:20 Rod No 19-20

L.A. Co. Precise Level Net
Name
Job No 0301.02
From BM 107-9A To BM 107-9
Date 3-30-61
Indexed H. E. O.

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	5138		058		#19	4868		056		BM 107-9A
	5080		058			4812		054		Palmdale Blvd and 90th St. E.
	5022		116			4758		110		See F.B. 2840 -
	15240	5080		116	60°	14438	4813		110	
										BM 107-9
										Palmdale Blvd and 90th St. E.
										See F.B. 2840 -
										T Le Gault
										Summation of Run
										From B.M.
										To B.M.
										Total Backsights = + 5.080
										Total Foresights = − 4.813
										Diff. Elev. = + 0.267
										Backsight stadia =
										Foresight Stadia =
										Total Stadia =

F.B. 2845 P.G. 10

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear & Wind Inst. No. 15066
Notes by Barilotti Time 10:15 to 10:45 Rod No. 19820

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 107-9A To BM 109-1A
Date 3-24-66
Indexed H. E. Oh

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
1	6740		184		56°	4666		181		BM 107-9A
	6556		185			4485		181		Palmdale Blvd & 90th
	6371		369			4304		362		St. E.
	19667	6556		369		13455	4485		362	See F.B. 2840
2	5260		089			5144		093		⊼ Le Gault
	5171		088			5051		093		
	5083		177			4958		186		
	15514	5171		546		15153	5051		548	
3	5318		182			5573		181		
	5136		178			5392		180		
	4958		360			5212		361		
	15412	5137		906		16177	5392		909	
4	4292		181			3785		182		
	4111		180			3603		182		
	3931		361			3421		364		
	12334	4111		1267		10809	3603		1273	
5	5343		181			4490		179		
	5162		180			4311		181		
	4982		361			4130		360		
	15487	5162		1628		12931	4310		1633	
		26137					22841			

F.B. 2845 P.G. 11

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

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 LINE

Chief of Party F. E. Brooks Weather Clear & Wind Inst. No. 15066
Notes by Barlotti Time 10:15 to 10:45 Rod No. 19-20

LA. Co. Precise Level Net
Name
Job No. C301.02
From B.M. 107-94 To B.M. 109-1A
Date 3-24-61
Indexed H. E. On

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	4813	26137	181	1628	56°	3907	22841	182	1633	
	4632		177			3725		181		
6	4455		358			3544		363		
	13900	4633		1986		11176	3725		1996	
	5038		179			4228		180		
	4859		181			4048		180		
7	4678		360			3868		360		
	14575	4858		2346		12144	4048		2356	
	4432		180			4980		180		
	4252		180			4800		180		
8	4072		360			4620		360		
	12756	4252		2706		14400	4800		2716	
	5252		181			3470		178		
	5071		179			3292		174		
9	4892		360			3118		352		
	15215	5072		3066		9880	3293		3068	
	4577		178			3580		180		
	4399		181			3400		180		
10	4218		359			3220		360		
	13194	4398		3425		10200	3400		3428	
		49350	1				42107	1		

F.B. 2845 P.G. 12

76P526-CE 379—10-57

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

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 LINE

Chief of Party E. E. Brooks Weather Clear & Wind Inst. No. 15066
Notes by Barlott Time 10:45 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From B.M. 107-9A To B.M. 109-1A
Date 3-24-61
Indexed H. E. OTT

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
11	4564	49350	181	34125	56°	3727	42107	181	3428	
	4383		180			3546		178		
	4203		361			3368		359		
	13150	4383		3786		10641	3547		3787	
12	4600		089			4330		103		B.M. 109-1A
	4511		090			4227		105		Palmdale Blvd & 95th St.
	4421		179			4122		265		
	13532	4511		3965		12679	4226		3995	See F.B. 2844-7
										Summation of Rds From B.M. 107-9A To B.M. 109-1A
										Total Backsights = + 58244
										Total Foresights = − 49880
										Diff. Elev. = + 8.3641
										Backsight stadia = 3965
										Foresight Stadia = 3995
										Total Sta. 7960
										= 0.50 mi
		58244					49880			

F.B. 2845 P.G. 13

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by Bacciotti Time 9:35 to 10:15 Rod No. 19 & 20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From B.M. 109-1A To B.M. 107-9A
Date 3-30-66
Indexed H.E. Ott

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	4702		103		68°	4972		090		B.M. 109-1A
	4599		103			4882		088		Palmdale Blvd & 95th St E
1	4496		206			4794		178		
	13797	4599		206		14648	4883		178	F.B. 2844 - 7
	4065		175			4912		184		T. LeGault
	3890		175			4728		187		
2	3715		350			4541		371		
	11670	3890		556		14181	4727		549	
	4028		181			5022		179		
	3847		183			4843		176		
3	3664		364			4667		355		
	11539	3846		920		14532	4844		904	
	3769		178			5549		180		
	3591		180			5369		181		
4	3411		358			5188		361		
	10771	3590		1278		16106	5369		1265	
F.B. 1946 P.G. 14	5053		180			4508		180		
5	4873		180			4328		180		
	4693		360			4148		360		
	14619	4873		1638		12984	4328		1625	
	20798					24151				

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by A.R.B. Time 9:35 to 10:15 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From B.M. 109-1A To B.M. 107-9A
Date 3-30-61
Indexed H. E. OTT

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
6	4276	20798	183	1638	68°	5079	24151	180	1625	
	4087		181			4899		180		
	3906		364			4719		360		
	12263	4088		2002		14697	4899		1985	
7	4157		184			5061		180		
	3973		182			4881		180		
	3791		366			4701		360		
	11921	3973		1368		14643	4881		2345	
8	4527		080			5380		180		
	4347		181			5200		180		
	4166		361			5020		360		
	13040	4346		2729		15606	5200		2705	
9	3710		182			4217		181		
	3528		183			4036		181		
	3345		365			3855		362		
	10583	3528		3094		12108	4036		3667	
10	4924		183			4665		181		
	4741		181			4484		180		
	4560		364			4304		361		
	14225	4742		3458		13453	4484		3428	
	41475					47651				

F.B. 1845 P.G. 15

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by A.R.B. Time 9:35 to 10:15 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From B.M. 109-1A To B.M. 107-9A
Date 3-30-61
Indexed H. E. OTT

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
11	4246	41475	184	3458	68°	5078	47651	183	3428	
	4062		182			4895		182		
	3880		366			4713		365		
	12188	4063		3824		14689	4896		3793	
12	4632		090			5998		095		B.M. 107-9A: Palmdale Blvd & 90th St E.
	4542		090			5903		094		
	4452		180			5809		189		
	13626	4542		4004		17710	5903		3982	See F.B. 2840

Summation of Run
From B.M. 109-1A
To B.M. 107-9A

Total Backsights = + 50.080
Total Foresights = − 58.450
Diff. Elev. = − 8.370

Backsight stadia = 4004
Foresight Stadia = 3982
Total Stadia = 7986
= 0.51 mi

F.B. 2845 P.G. 16

50080 / 58.450 /

C12

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by F. E. Brooks Time 10:45 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-1A To BM 109-1
Date 24 March 1941
Indexed E. E. OTT

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	4.160		.088		#19	4.212		.077		BM 109-1A
	4.072		.085			4.135		.076		Palmdale Blvd at 95th
	3.987		.173			4.059		.153		St. E.
	12.219	4.073		.173	58°	12.406	4.135		.153	See F.B. 2844-7
										BM 109-1
										Palmdale Blvd at 95th
										St. E.
										See F.B. 2844-7
										A LeGault
										Summation of Run
										From B.M. 109-1A
										To B.M. 109-1
										Total Backsights = + 4.073
										Total Foresights = − 4.135
										Diff. Elev. = − 0.062
										Backsight stadia = .173
										Foresight Stadia = .153
										Total Stadia = .326
										= .02 mi

F.B. 2845 P.G. 17

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

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 LINE

Chief of Party F. E. Brooks Weather Clear & Wind Inst. No. 15066
Notes by Brooks Time 2:30 to 2:35 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-1 To BM 109-1A
Date 3-29-61
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	4789		080			4733		084		BM 109-1
	4709		080			4649		084		Palmdale Blvd at 95
	4629		160			4565		168		St. E.
	14127	4709		160		13947	4649		168	see F.B. 2844-7
										BM 109-1A
										Palmdale Blvd at 95th
										St. E.
										see F.B. 2844-7
										T LcGault
										Summation of Run
										From B.M. 109-1
										To B.M. 109-1A
										Total Backsights = + 4.709
										Total Foresights = − 4.649
										Diff. Elev. = + 0.060
										Backsight stadia = 1.60
										Foresight Stadia = 1.68
										Total Stadia = 3.28
										= 0.02 mi.
		4.709					4649			

F.B. 2844 P.G. 18

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by F. E. Brooks Time 10:50 - 11:30 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-1 To BM 109-2
Date 24 March 1961
Indexed H. E. orr

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	4.109		.082		#19	2.732		.093		BM 109-1
	4.027		.084			2.639		.094		Palmdale Blvd at 95th
1	3.943		.166			2.545		.187		St. E.
	12.079	4.026		.166	58°	7.916	2.639		187	See F.B. 2844-7
	4.703		.221			3.482		.170		
	4.482		.220			3.312		.170		T Le Gault
2	4.262		.441			3.142		.340		
	13.447	4.482		1.07		9.936	3.312		.527	
	4.613		.163			3.191		.191		
	4.450		.160			3.000		.192		
3	4.290		.323			2.808		.383		
	13.353	4.451		.930		8.999	3.000		910	
	4.925		.173			3.329		.182		
	4.752		.170			3.147		.184		
4	4.582		.343			2.963		.366		
	14.259	4.753		1.273		9.439	3.146		1276	
	4.753		.182			3.082		.182		
	4.571		.180			2.900		.180		
5	4.391		.362			2.720		.362		
	13.715	4.572		1.635		8.702	2.901		1638	
		22.284					14.998			

F.B. 2845 - P.G. 29

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

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 LINE

Chief of Party F. E. Brooks Weather Clear-Windy Inst. No. 15066
Notes by F. E. Brooks Time 10:50 - 11:30 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-1 To BM 109-2
Date 24 March 1961
Indexed

F.B. 2846 P.G. 20

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
6	5.422	22.284	.180	1.635		3.808	14.998	.177	1.638	
	5.242		.180			3.631		.176		
	5.062		.360			3.455		.357		
	15.726	5.242		1995		10.894	3.631		1.991	
7	4.628		.177			2.822		.176		
	4.451		.174			2.646		.179		
	4.277		.351			2.467		.355		
	13.356	4.452		2.346		7.935	2.645		2.346	
8	4.523		078			3.230		.177		
	4.345		.179			3.053		.174		
	4.166		.357			2.879		.351		
	13.034	4.345		2.703		9.162	3.054		2.697	
9	4.427		.179			3.582		.180		
	4.248		.177			3.402		.180		
	4.071		.356			3.222		.360		
	12.746	4.249		3.059		10.206	3.402		3.057	
10	4.579		.177			3.421		.180		
	4.342		.178			3.241		.179		
	4.164		.355			3.062		.359		
	13.025	4.342		3.414		9.724	3.241		3.416	
		44.914					30.971			

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear-Windy Inst. No. 15066
Notes by F. E. Brooks Time 10:60 – 11:30 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301, 02
From BM 109-1 To BM 109-2
Date 24 March 1961
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	4.351	44.914	.176	3.414		3.778	30.971	178	3.416	
	4.175		175			3.600		.186		
11	4.000		.351			3.420		358		
	12.526	4.175		3.765		10.798	3.599		3.774	
	4.669		.157			3.927		.155		BM 109-2
	4.512		.153			3.772		.154		Palmdale Blvd at 100th
12	4.359		.300			3.618		.309		St. E.
	13.540	4.513		4.065		11.317	3.772		4.083	See F.B. 2844-8
										Summation of Run From B.M. 109-1 To B.M. 109-2
										Total Backsights = + 53.602 Total Foresights = – 38.342 Diff. Elev. = + 15.260
										Backsight stadia = 4.065 Foresight Stadia = 4.083 Total Stadia = 8.148 = .52 mi.
		53.602					38.342			

F.B. 2845 P.G. 41

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by F. E. Brooks Time 1:50 - Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-2 To BM 109-1
Date 29 March 1961
Indexed H. E. O.

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	4.147		.150		#19	4.893		.158		BM 109-2
	3.997		.153			4.735		.162		Palmdale Blvd at 100th
1	3.844		.303			4.573		.320		St. E.
	11.988	3.996		.303	68°	14.201	4.734		.320	see F.B. 2844-8
	3.608		.180			4.260		.179		
	3.508		.178			4.081		.176		T Le Gault
2	3.330		.358			3.905		.355		
	10.526	3.509		.661		12.246	4.082		.675	
	3.319		.178			4.418		.178		
	3.141		.178			4.240		.178		
3	2.963		.356			4.062		.356		
	9.423	3.141		1.017		12.720	4.240		1.031	
	3.480		.181			4.322		.179		
	3.299		.179			4.143		.177		
4	3.120		.360			3.967		.356		
	9.899	3.300		1.377		12.432	4.144		1.387	
	3.469		.178			4.760		.178		
	3.291		.176			4.582		.177		
5	3.115		.354			4.405		.355		
	9.875	3.292		1.731		13.747	4.582		1.742	
		17.238					21.782			

F.B. 2845 P.G. 20

40

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by F. E. Brooks Time 1:50 - Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-2 To BM 109-1
Date 29 March 1961
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	2.091	17.238	.177	1.931		4.895	21.782	.175	1.742	
	2.914		.176			4.720		.177		
6	2.738		.353			4.543		.352		
	8.743	2.914		2.084		14.158	4.719		2.094	
	3.767		.179			5.378		.179		
	3.588		.176			5.199		.179		
7	3.412		.355			5.020		.358		
	10.767	3.589		2.439		15.597	5.199		2.452	
	3.169		.181			4.840		.180		
	2.988		.180			4.660		.180		
8	2.808		.361			4.480		.360		
	8.965	2.988		2.800		13.980	4.660		2.812	
	3.176		.176			4.784		.177		
	3.000		.176			4.607		.179		
9	2.824		.352			4.428		.356		
	9.000	3.000		3.152		13.819	4.606		3.128	
	3.221		.176			4.674		.175		
	3.045		.175			4.499		.178		
10	2.870		.351			4.321		.353		
	9.136	3.045		3.503		13.494	4.498		3.521	
		32.774					46.464			

F.B. 2845 P.G. 25

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by F. E. Brooks Time 1:50 - 2:25 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-2 To BM 109-1
Date 29 March 1961
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	3.371	32.774	.188	3.503		4.559	45.414	202	3.521	
	3.183		.184			4.357		.205		
11	2.999		.372			4.152		.407		
	9.553	3.184		3.875		13.068	4.356		3.928	
	3.601		.112			4.946		.066		BM 109-1
	3.489		.111			4.880		.068		Palmdale Blvd at 95th
12	3.378		.223			4.812		.134		St. E.
	10.468	3.489		4098		14.638	4.879		4.062	See F.B. 2844-7
										Summation of Run From B.M. 109-2 To B.M. 109-1
										Total Backsights = + 39.447 Total Foresights = — 54.699 Diff. Elev. = - 15.252
										Backsight stadia = 4.098 Foresight Stadia = 4.062 Total Stadia = 8.160 = 51 mi.
		39.447					54.699			

F.B. 2844 P.G. 24

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No 15066
Notes by Barloth Time 10:00 to 10:40 Rod No. 19-20

Name L.A. Co. Precise Level Nef
Job No. 0301.02
From B.M. 109-2 To B.M. 109-3
Date 3-28-61
Indexed H. E. on

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
1	3628		179		44°	3453		181		BM 109-2 at Palmdale Blvd. & 100th St. E. See F.B. 2844-8
	3449		179			3272		179		
	3270		358			3093		360		
	10347	3449		358		9818	3273		360	
2	4286		177			3237		180		At L.e Gault
	4109		178			3057		180		
	3931		355			2877		360		
	12326	4109		713		9171	3057		720	
3	4251		179			3421		177		
	4072		179			3244		175		
	3893		358			3069		352		
	12216	4072		1071		9734	3245		1072	
4	4124		177			3860		179		
	3947		179			3681		177		
	3768		356			3504		356		
	11839	3946		1427		11045	3682		1428	
5	4569		180			3845		177		
	4389		178			3668		177		
	4211		358			3491		354		
	13169	4390		1785		11003	3668		1782	
		19964	1				16925	1		

F.B. 2844 P.G. 25

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by Barlotti Time 10:00 to 10:40 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From B.M. 109-2 To B.M. 109-3
Date 3-28-61
Indexed H. E. on

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	5315	1996 ✓	093	1785	44°	4770	6925	085	1782	
	5222		092			4685		084		
6	5130		185			4601		169		
	15667	5222		1970		14056	4685		1951	
	4178		177			4615		183		
	4001		174			4432		181		
7	3827		351			4251		364		
	12006	4002		2321		13298	4433		2315	
	4954		180			3580		178		
	4774		178			3402		175		
8	4596		358			3227		353		
	14324	4775		2659		10209	3403		2668	
	4315		180			3259		178		
	4135		178			3081		176		
9	3957		358			2905		354		
	12407	4138		3017		9245	3082		3022	
	4358		178			3364		177		
	4180		179			3187		177		
10	4001		357			3010		354		
	12539	4179		3374		9561	3187		3376	
	42280					35715				

F.B. 1946 P.G. 26

76P526-CE 379—10-57

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

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 LINE

Chief of Party Brooks Weather Cloudy & Wind Inst. No. 15066
Notes by Bacciotti Time 10:00 to 10:40 Rod No. 19-20

Name L.A. Co. Precise Level Net.
Job No. 0301.02
From B.M. 109-2 To B.M. 109-3
Date
Indexed H.E. QM

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B.S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	4779	4228	111	3374	44°	3839	3571.5	109	3376	
11	4668		110			3730		108		
	4558		221			3622		217		
	14065	4668		3393		11191	3730		3593	
	4872		088			4617		096		B.M. 109-3
	4784		087			4521		094		Palmdale Blvd & 105th St. E.
12	4697		175			4427		190		
	14353	4784		3770		13565	4522		3783	E.B. 2844-9
										Summation of Run From B.M. 109-2 To B.M. 109-3
										Total Backsights = + 51.732 Total Foresights = − 43.967 Diff. Elevdia = + 7.765
										Backsight stadia = 3.770 Foresight Stadia = 3783 Total Stadia = 7.553 = 0.48 mi
		51732					43967			F.B. 2845 P.G. 27

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

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 LINE.

Chief of Party Brooks Weather Clear Inst. No. 15066
Notes by Barlotti Time 1:05 to 1:45 Rod No. 19.20

Name L.A. Co. Precise Level No.
Job No. 0301.02
From BM 109-3 To BM 109-2
Date 3/29/61
Indexed H.E. on

F.B. 2845 P.G. 28

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B.S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
1	4592		094		68°	4849		089		BM 109-3 Palmdale Blvd & 105th St. E
	4498		095			4760		089		
	4403		189			4671		178		
	13493	4498		189		14280	4760		178	See F.B. 2844-9
2	3793		103			4744		116		↑ Le Gult
	3690		102			4628		117		
	3588		205			4515		233		
	11071	3690		394		13893	4628		411	
3	3378		178			4370		179		
	3200		178			4191		176		
	3022		356			4015		355		
	9600	3200		750		12576	4192		766	
4	3443		176			4500		180		
	3267		176			4320		180		
	3091		352			4140		360		
	9801	3267		1102		12960	4320		1126	
5	3571		178			4942		179		
	3393		177			4763		181		
	3216		355			4582		360		
	10180	3393		1457		14287	4762		1486	
	18048					22662				

76P526-CE 379—10-57

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

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 LINE

Chief of Party E. E. Brooks — Weather Clear & Wind — Inst. No. 15066
Notes by A.R.B. — Time 1:05 to 1:45 — Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From B.M. 109-3 To B.M. 109-2
Date 3-29-61
Indexed H. E. on

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	4730	8048	176	1457	68°	4303	22662	182	486	
	4554		175			4121		182		
C	4379		351			3939		364		
	13663	4554		1808		12363	4121		1850	
	4352		084			4898		095		
	4268		087			4803		093		
7	4181		171			4710		188		
	12801	4267		1979		14411	4803		2038	
	3930		179			4651		178		
	3751		176			4473		175		
8	3575		355			4298		353		
	11256	3752		2334		13422	4474		2391	
	4005		190			4244		165		
	3815		190			4079		167		
9	3625		380			3912		332		
	11445	3815		2714		12235	4078		2723	
	3401		176			4230		177		
	3225		176			4053		178		
10	3049		352			3875		355		
	9675	3225		3066		12158	4053		3078	
		37661					44191			

F.B. 2845 P.G. 29

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

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 LINE

Chief of Party E. E. Brooks Weather Clear & Wind Inst. No. 15066
Notes by A. R. B. Time 1:05 to 1:45 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From B.M. 109-3 To B.M. 109-2
Date 3-29-61
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
11	3203	37661	178	3066	68°	4252	4191	176	3078	
	3025		182			4076		176		
	2843		360			3900		352		
	9071	3024		3426		12228	4076		3430	
12	3415		180			3587		179		B.M. 109-2
	3235		180			3408		178		Palmdale Blvd 100 Th St E
	3055		360			3230		357		
	9705	3235		3786		10225	3408		3787	F.B. 2844-8
										Summation of Run From B.M. 109-3 To B.M. 109-2
										Total Backsights = + 43.920 Total Foresights = − 51.675 Diff. Elev. = − 7.755
F.B. 2845 P.G. 30										Backsight stadia = 3.786 Foresight Stadia = 3.787 Total Stadia = 7.573 = 0.48 mi.
	43920	1				51675		1		

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by F. E. Brooks Time 10:40 - 10:45 Rod No. 19 - 20

Name L.A. Co. Precise Level Net
Job No. 0.3.01.02
From B.M. 109 - 3 To B.M. 109 - 3A
Date 28 March 1961
Indexed H. E. on

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	6.117		.182		#19	3.992		.184		BM 109 - 3
	5.935		.161			3.808		.181		Palmdale Blvd. & 105 St. E.
1.	5.754		.363			3.627		.365		See F.B. 2844-9
	17.806	5.935		.363	46°	11.427	3.809		.365	
	5.262		.037			4.973		.042		BM 109-3A
	5.225		.038			4.931		.044		Palmdale Blvd and 105 1/4 St. E.
2.	5.187		.075			4.887		.086		See F.B. 2844-9
	15.674	5.225		.438		14.791	4.930		.451	
										Summation of Run
										From B.M. 109-3
										To B.M. 109-3A
										Total Backsights = + 11.160
										Total Foresights = — 8.739
										Diff. Elev. = + 2.421
										Backsight stadia = .438
										Foresight Stadia = .451
										Total Stadia = .889
										= .06 mi
		11.160					8.739			

F.B. 2844 P.G. 31

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

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 LINE

Chief of Party F. E. Brooks Weather Clear & Wind Inst. No. 15066
Notes by A.R.B. Time 1:00 to 1:05 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From B.M 109-3A To B.M. 109-3
Date 1-29-66
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
1	4846		045			5132		037		BM 109-3A Palmdale Blvd and 105-Th St. E
	4801		044			5095		036		
	4757		089			5059		073		
	14404	4801		089		15286	5095		073	See F.B. 2844-9
2	3877		182			6001		181		BM 109-3 Palmdale Blvd and 105-Th St. E.
	3695		183			5820		181		
	3512		365			5639		362		
	N084	3695		454		17460	5820		435	See F.B. 2844-
										T. LeGault
										Summation of Run From B.M. 109-3A To B.M. 109-3
										Total Backsights = + 8.496 Total Foresights = − 10.915 Diff. Elev. = − 2.419
										Backsight stadia = .454 Foresight Stadia = .435 Total Stadia = .889 = .06
		8.496					10.915			

F.B. 2844 P.G. 32

76P526-CE 379—10-57

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

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 LINE

Chief of Party E. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by E. E. Brooks Time 10:50 - 11:20 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-3A To BM 109-4A
Date 28 March 1961
Indexed H. E. on

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	5.265		.200		#19	4.935		.177		BM 109-3A
	5.065		.198			4.758		.177		Palmdale Blvd. & 105 St. E.
1	4.867		.398			4.581		.354		See F.B. 2844-9
	15.197	5.066		.398	46°	14.274	4.758		.354	
	5.397		.174			4.862		.187		T Rodriguez
	5.223		.175			4.675		.187		
2	5.048		.349			4.488		.374		
	15.668	5.223		.747		14.025	4.675		.728	
	4.913		.178			4.439		.148		
	4.735		.176			4.291		.150		
3	4.559		.354			4.141		.298		
	14.207	4.736		1.101		12.871	4.290		1.026	
	5.348		.173			4.422		.190		
	5.175		.170			4.232		.193		
4	5.005		.347			4.039		.383		
	15.528	5.176		1.444		12.693	4.231		1.409	
	5.471		.172			4.347		.185		
	5.299		.174			4.162		.183		
5	5.125		.346			3.979		.368		
	15.895	5.298		1.790		12.488	4.163		1.777	
		25.499					22.117			

F.B. 2844 - P.G. 33

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

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 LINE

Chief of Party F. E. Brooks Weather Clear-Win Inst. No. 15066
Notes by F. E. Brooks Time 10:50 - 11:20 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-3A To BM 109-4A
Date 28 March 1961
Indexed H. E. On

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
6	5.052	25.499	.174	1.790		4.539	22.117	.184	1.777	
	4.878		.176			4.355		.184		
	4.702		.350			4.171		.368		Summation of Run From B.M. 109-3A To B.M. 109-4A
	14.632	4.877		2.140		13.065	4.355		2.145	
7	5.135		.180			4.246		.180		
	4.955		.180			4.065		.177		Total Backsights = + 47.563
	4.775		.360			3.888		.357		Total Foresights = − 40.253
	14.865	4.955		2.500		12.198	4.066		2.502	Diff. Elev. = + 7.310
8	4.069		.180			2.731		.180		
	3.889		.180			2.551		.180		Backsight stadia = 3.468
	3.709		.360			2.371		.360		Foresight Stadia = 3.443
	11.667	3.889		2.860		7.653	2.551		2.862	Total Stadia = 6.911
										= .44 mi.
9	4.352		.185			2.925		.180		
	4.167		.182			2.745		.180		
	3.985		.367			2.565		.360		
	12.504	4.168		3.227		8.235	2.745		3.222	
10	4.296		.121			4.529		.110		BM 109-4A
	4.175		.120			4.419		.111		Palmdale Blvd and 110th St. E.
	4.055		.241			4.308		.221		
	12.526	4.175		3.468		13.256	4.419		3.443	See F.B. 2844-10
		47.563					40.253			

F.B. 2846 P.G. 34

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear & Wind Inst. No 15066
Notes by F.E. Brooks Time 11 20 to 12:00 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-4A To BM 109-3A
Date 3-29-61
Indexed H. E. OH

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
1	5665		106			5422		109		BM 109-4A
	5559		108			5313		105		Palmdale Blvd and 110TH St. E.
	5451		214			5208		214		
	16675	5558		214		15943	5314		214	See F.B. 2844-10
2	3705		181			5129		180		
	3524		177			4949		181		⇑ Rodrigues
	3347		358			4768		361		
	10576	3525		572		14846	4949		575	
3	3229		180			4565		178		
	3049		180			4387		180		
	2869		360			4207		358		
	9147	3049		932		13159	4386		933	
4	3992		179			4883		180		
	3813		180			4703		180		
	3633		359			4523		360		
	11438	3813		1291		14109	4703		1293	
5	4288		179			4761		180		
	4059		180			4581		180		
	3879		359			4401		360		
	12176	4059		1650		13743	4581		1653	
		20.0041					13.933	1		

F.B. 2845 P.G. 35

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

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 LINE

Chief of Party F. E. Brooks Weather Clear & Wind Inst. No. 15066
Notes by A.R.B. Time 10:20 to 12:00 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-4A To BM 109-3A
Date 3-29-61
Indexed H. E. Olp

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	3849	20.004	180	650		4982	23.933	177	1653	
	3669		180			4805		177		
6	3489		360			4628		354		Summation of R.
	11007	3669		2010		14414	4805		2007	From B.M. 109-4A
										To B.M. 109-3A
	4069		180			5013		184		
	3889		181			4829		180		Total Backsights = + 39.761
7	3708		361			4649		364		Total Foresights = − 47.064
	11666	3889		2371		14491	4830		2371	Diff. Elev. = − 7.303
	3949		154			4414		175		
	3795		152			4239		172		Backsight stadia = 3.415
8	3643		306			4067		347		Foresight Stadia = 3.449
	11387	3796		2677		12720	4240		2718	Total Stadia = 6.864
	4449		190			4975		170		
	4259		190			4805		166		
9	4069		380			4639		336		
	12777	4259		3057		14419	4806		3054	
	4323		178			4648		199		BM 109-3A
	4145		180			4449		196		Palmdale Blvd and 105TH
10	3965		358			4253		395		ST. E.
	12433	4144		3415		13350	4450		3449	See F.B. 2844-9
		39.761					47.064			

F.B. 2844-9 P.G. 36

76P526-CE 379---10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by F. E. Brooks Time 11:25 Rod No. 19820

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-4A To BM 109-4B
Date 28 March 1961
Indexed H. E. Orr

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	4.222		095		#19	3.359		098		BM 109-4A
	4.127		098			3.261		100		Palmdale Blvd. E 110 St. E.
	4.029	1	193			3.161		198		See F.B. 2844-10
	12.378	4.126		193	48°	9.781	3.260			
										BM 109-4B
										Palmdale Blvd. and 110 Th St. E.
										See F.B. 2844-10
										T Rodriguez
										Summation of Run
										From B.M. 109-4A
										To B.M. 109-4B
										Total Backsights = + 4.126
										Total Foresights = − 3.260
										Diff. Elev. = + 0.866
										Backsight stadia = .193
										Foresight Stadia = .198
										Total Stadia = .391
										= .02 mi

F.B. 2844 P.G. 37

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

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 LINE

Chief of Party F. E. Brooks Weather Clear & Wind Inst. No. 15066
Notes by A.R.B. Time 10:15 to 10:20 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-4B To BM 109-4A
Date 3-29-61
Indexed H.E.O.N.

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	3363		100		64°	4223		094		BM 109-4B
	3263		100			4128		096		Palmdale Blvd and
1	3163		200			4032		190		110Th St. E.
	9789	3263		200		12383	4128		190	See F.B. 2844-10
										BM 109-4A
										Palmdale Blvd and
										110 Th St. E.
										See F.B. 2844-10
										T. Rodrigues
										Summation of Run
										From B.M. 109-4B
										To B.M. 109-4A
										Total Backsights = + 3.263
										Total Foresights = — 4.128
										Diff. Elev. = - 0.865
										Backsight stadia = .200
										Foresight Stadia = .190
										Total Stadia = .390
										= .02 m.

F.B. 2845 P.G. 38

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear-Windy Inst. No. 15066
Notes by F. E. Brooks Time 11:30 Rod No. 19 & 20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-4B To BM 109-4
Date 28 March 1961
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	5.385		.074		#19	4.069		.074		BM 109-4B
	5.311		.076			3.995		.073		Palmdale Blvd. & 110 St. E.
	5.235		.150			3.922		.147		See F.B. 2844-10
	15.931	5.310		.150	48°	11.986	3.995		.147	
										BM 109-4
										Palmdale Blvd and 110th St. E.
										See F.B. 2844-10
										T Rodriguez
										Summation of Run From B.M. 109-4B To B.M. 109-4
										Total Backsights = + 5.310 Total Foresights = − 3.995 Diff. Elev. = +1.315
										Backsight stadia = .150 Foresight Stadia = .147 Total Stadia = .297 = .02 mi.

F.B. 2845 - P.G. 39

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

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 LINE

Chief of Party F. E. Brooks Weather Clear & Wind Inst. No. 15066
Notes by A.R.B Time 10:10 to 10:15 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-4 To BM 109-4B
Date 3-29-61
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	4184		076		#19	5499		074		BM 109-4
	4108		076			5425		073		Palmdale Blvd and 110th St. E.
	4032		152			5352		147		see F.B. 2844-10
	12324	4108		152	64°	16276	5425		147	
										BM 109-4B
										Palmdale Blvd and 110th St. E.
										see F.B. 2844-10
										T. Rodrigues
										Summation of Run
										From B.M. 109-4
										To B.M. 109-4B
										Total Backsights = + 4.108
										Total Foresights = − 5.425
										Diff. Elev. = − 1.317
										Backsight stadia = .152
										Foresight Stadia = .147
										Total Stadia = .299
										= .02 mi

F.B. 2845 P.G. 40

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks — Weather Cloudy & Wind — Inst. No. 15066
Notes by A.R.B. — Time 11:30 to 12:00 — Rod No. 19820

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-4 To BM 109-5
Date 3-28-61
Indexed H.E. on

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B.S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
1	5662		207		48°	4685		176		BM 109-4
	5455		206			4509		178		Palmdale Blvd. & 110 St. E.
	5249		413			4331		354		See F.B. 2844-10
	16366	5455		413		13525	4508		354	
2	4219		177			3545		188		T. Rodrigues
	4042		174			3356		190		
	3868		351			3166		378		
	12129	4043		764		10067	3356		732	
3	5399		178			4612		183		
	5221		176			4429		184		
	5045		354			4245		367		
	15665	5222		1118		13286	4429		1099	
4	4435		176			4829		184		
	4259		176			4645		183		
	4083		352			4462		367		
	12777	4259		1470		13936	4645		1466	
5	4633		181			4142		180		
	4452		180			3962		180		
	4292		361			3782		360		
	13357	4452		1831		11886	3962		1826	
	23431	1				20900				

F.B. 2845 P.G. 41

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

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 LINE

Chief of Party E. E. Brooks Weather Cloudy & Wind Inst. No. 15066
Notes by A.R.B. Time 11:30 to 12:00 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From B.M. 109.4 To B.M. 109.5
Date 3-28-61
Indexed E.E.B.

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B.S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	5479	23431	180	1831		4615	20900	180	1826	
	5299		180			4435		182		
6	5119		360			4253		362		
	15897	5299		2191		13303	4434		2188	
	5469		181			4709		180		Summation of Run
	5288		183			4529		180		From B.M. 109.4
7	5105		364			4349		360		To B.M. 109-5
	15862	5287		2534		13587	4529		2548	
	5559		184			4829		180		Total Backsights = + 50.756
	5375		180			4649		182		Total Foresights = − 44.518
8	5195		364			4467		362		Diff. Elev. = + 6.238
	16129	5376		2918		13945	4648		2910	
	6085		180			4982		180		Backsight stadia = 3.580
	5905		180			4802		181		Foresight Stadia = 3558
9	5725		360			4621		361		Total Stadia = 7.138
	17715	5903		3278		14405	4802		3271	0.45 mi.
	5609		150			5349		144		B.M. 109-5
	5459		152			5205		143		Palmdale Blvd 115th St E
10	5307		302			5062		287		Rd Dept Mon
	16375	5458		3580		15616	5205		3558	F.B. 2844-11
		50756					44518			

F.B. 2845 P.G. 42

76P526-CE 379—10-57

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

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 LINE

Chief of Party R. E. Brooks Weather clear - windy Inst. No. 15066
Notes by F. E. Brooks Time 10:40 - 11:10 Rod No 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From B.M. 109-5 To B.M. 109-4
Date 29 March 1961
Indexed H. E. On

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
1	4.629		.150		#19	4.878		.149		B.M. 109-5
	4.479		.150			4.729		.147		Palmdale Blvd 115th St. E.
	4.329		.300			4.582		.296		Rd Dept. Mon.
	13.437	4.479		.300	62°	14.189	4.730		.296	F.B. 2844-11
2	3.988		.180			5.095		.183		T Rodriguez
	3.808		.180			4.912		.184		
	3.628		.360			4.728		.367		
	11.424	3.808		.660		14.735	4.912		.663	
3	3.985		.181			4.713		.181		
	3.804		.181			4.532		.183		
	3.623		.362			4.349		.364		
	11.412	3.804		1.022		13.594	4.531		1.027	
4	3.995		.180			4.755		.182		
	3.815		.180			4.573		.184		
	3.635		.360			4.389		.366		
	11.445	3.815		1.382		13.717	4.572		1.393	
5	3.662		.180			4.524		.181		
	3.482		.180			4.343		.180		
	3.302		.360			4.163		.361		
	10.446	3.482		1.742		13.030	4.343		1.754	
		19.388					23.088			

F.B. 2845 P.G. 43

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

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 LINE

Chief of Party E. E. Brooks — Weather Clear-Windy — Inst. No. 15066
Notes by F. E. Brooks — Time 10:40 - 11:10 — Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From B.M. 109-5 To B.M. 109-4
Date 29 March 1961
Indexed E. E. Off

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
6	3.872	19.388	.181	1.742		4.362	23.088	.180	1.754	
	3.691		.179			4.182		180		
	3.512		.360			4.002		.360		
	11.075	3.692		2.102		12.546	4.182		2.114	
7	4.697		.185			4.303		.178		Summation of Run From B.M. 109-5 To B.M. 109-4
	4.512		.183			4.125		.176		
	4.329		.368			3.949		.354		
	13.538	4.513		2.470		12.377	4.126		2.468	
8	3.925		.180			4.719		.180		Total Backsights = + 39.596 Total Foresights = − 45.832 Diff. Elev. = − 6.236
	3.745		.179			4.539		180		
	3.566		.359			4.359		.360		
	11.236	3.745		2.029		13.617	4.539		2.828	
9	~~4.069~~		.180			4.759		.181		Backsight stadia = 3.554 Foresight Stadia = 3.590 Total Stadia = 7.144 = .45 mi.
	3.889		.180			4.578		.181		
	3.709		.360			4.397		.362		
	11.667	3.889		3.189		13.734	4.578		3.190	
10	4.552		.184			5.519		.200		B.M. 109-4 Palmdale Blvd & 110th St E.
	4.368		.181			5.719		.200		
	4.187		.365			5.119		.400		
	13.107	4.369		3.554		15.957	5.319		3.590	E.B. - 2844-10
		39.596					46.032			

F.B. 2845 P.G. 44

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No 15066
Notes by F. E. Brooks Time 1:10 – 1:15 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From B.M. 109-5 To B.M. 109-5A
Date 28 March 1961
Indexed H. E. Orr

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
1.	5.783		.179		#19	3.090		.178		BM 109-5
	5.604		.179			2.912		.174		Palmdale Blvd at 115TH
	5.425		.358			2.738		.352		ST. E.
	16.812	5.604		.358	56°	8.740	2.913		.352	See F.B. 2844-11
2.	4.129		.152			5.271		.170		BM 109-5A
	3.977		.155			5.101		.166		Palmdale Blvd at 115TH
	3.822		.309			4.935		.376		ST. E.
	11.928	3.976		.665		15.307	5.102		.688	See F.B. 2844-11
										π Log Int
										Summation of Run
										From B.M. 109-5
										To B.M. 109-5A
										Total Backsights = + 9.580
										Total Foresights = – 8.015
										Diff. Elev. = +1.565
										Backsight stadia = .665
										Foresight Stadia = .688
										Total Stadia = 1.353
		9.580					8.015			= .09 mi.

F.B. 2845 P.G. 45

65

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

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 LINE

Chief of Party F. E. Brook Weather Clear-Windy Inst. No. 15066
Notes by F. E. Brooks Time 10:30 - 10:40 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-5A To BM 109-5
Date 29 March 1961
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	5.320		.169		#19	4.177		.154		BM 109-5A
	5.151		.168			4.023		.152		Palmdale Blvd at 115th St. E.
1.	4.983		.337			3.871		.306		
	15.454	5.151		.337		12.071	4.024		.306	See F.B. 2844-11
	3.111		.177			5.803		.178		BM 109-5
	2.934		.175			5.625		.179		Palmdale Blvd at 115th St. E.
2.	2.759		.352			5.446		.357		
	8.804	2.935		.689		16.874	5.625		.663	See F.B. 2844-11
										T Le Gault
										Summation of Run From B.M. 109-5A To B.M. 109-5
										Total Backsights = + 8.086 Total Foresights = − 9.649 Diff. Elev. = − 1.563
										Backsight stadia = 689 Foresight Stadia = 663 Total Stadia = 1352 = 0.09 mi.
		8086					9649			

F.B. 2844 PG. 46

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. #5066
Notes by F. E. Brooks Time 1:15 - 1:45 Rod No. 19-110

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-5A To BM 109-6A
Date 28 March 1961
Indexed H. E. OTT

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
1	5.710		.187		#19	3.549		.183		BM 109-5A
	5.523		.186			3.366		.184		Palmdale Blvd at 115th
	5.337		.373			3.182		.367		ST. E.
	16.570	5.523		.373	56°	10.097	3.366		.367	See F.B. 284-11
2	4.465		.180			3.412		.181		↑ LeGault
	4.285		.179			3.231		.182		
	4.106		.359			3.049		.363		
	12.856	4.285		.732		9.692	3.231		.730	
3	4.563		.178			3.790		.181		
	4.375		.177			3.609		.179		
	4.198		.355			3.430		.360		
	13.126	4.375		1.087		10.829	3.610		.1090	
4	4.635		.180			3.633		.181		
	4.455		.180			3.452		.180		
	4.275		.360			3.272		.360		
	13.365	4.455		1.447		10.357	3.452		1.450	
5	5.011		.180			3.389		.182		
	4.831		.180			3.207		.182		
	4.651		.360			3.025		.364		
	14.493	4.831		1.807		9.621	3.207		1.814	
		23.469					16.868			

F.B. 1295 P.G. 47

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by F. E. Brooks Time 1:15 - 1:45 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-5A To BM 109-6A
Date 28 March 1961
Indexed H. E. OTT

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals
	4.244	23.469	.182	1.807		3.312	16.868	.181	1.814
	4.062		.181			3.131		.179	
6	3.881		.363			2.952		.360	
	12.187	4.062		2.170		9.395	3.132		2.174
	4.701		.180			4.060		.180	
	4.521		.180			3.880		.180	
7	4.341		.360			3.700		.360	
	13.563	4.521		2.530		11.640	3.880		2.534
	4.591		.181			3.402		.181	
	4.410		.179			3.221		.180	
8	4.231		.360			3.041		.360	
	13.232	4.411		2.890		9.664	3.221		2.894
	4.740		.179			2.833		.184	
	4.561		.181			2.649		.183	
9	4.380		.360			2.466		.367	
	13.681	4.560		3.250		7.948	2.649		3.261
	5.382		.073			6.533		.072	
	5.309		.072			6.461		.072	
10	5.237		.145			6.389		.144	
	15.928	5.309		3.395		19.383	6.461		3.405
		46.332					36.209		

F.B. 2844 P.G. 48

DESCRIPTION AND REMARKS

Summation of Run
From B.M. 109-5A
To B.M. 109-6A

Total Backsights = + 46.332
Total Foresights = − 36.209
Diff. Elev. = +10.123

Backsight stadia = 3.395
Foresight Stadia = 3.405
Total Stadia = 6.800
= .43 mi.

BM 109-6A
Palmdale Blvd at 120th St. E.
see F.B. 2844-12

76P526-CE 379---10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear & Wind Inst. No. 15066
Notes by Barloth Time 10:00 to 10:30 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-6A To BM 109-5A
Date 3-29-61
Indexed H. E. O'T

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
1	4709		073		60°	3552		068		BM 109-6A
	4636		073			3484		069		Palmdale Blvd at 120th
	4563		146			3415		137		St. E.
	13908	4636		146		10451	3484		137	See F.B. 2844-12
2	2791		184			4700		180		
	2607		185			4520		180		T Le Gault
	2422		369			4340		360		
	7820	2607		515		13560	4520		497	
3	3490		177			4688		186		
	3313		174			4502		183		
	3139		351			4319		369		
	9942	3314		866		13569	4502		866	
4	4040		180			4682		180		
	3860		180			4502		180		
	3650		360			4322		360		
	11586	3860		1226		13506	4502		1226	
5	3280		181			4211		180		
	3099		180			4031		182		
	2919		361			3849		362		
	9298	3099		1587		12091	4030		1588	
	17516					21038				

F.B. 2845 P.G. 19

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

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 LINE

Chief of Party F. E. Brooks Weather Clear & Wind Inst. No. 15066
Notes by A. R. B. Time 10:00 to 10:30 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-6A To BM 109-5A
Date 3-29-61
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals
6	3334	17516	183	1587	60°	4958	21038	180	1588
	3151		181			4778		179	
	2970		364			4599		359	
	6455	3152		1951		4335	4778		1947
7	3585		183			4587		180	
	3402		180			4407		180	
	3222		363			4227		360	
	10209	3403		2314		13221	4407		2307
8	3758		180			4522		180	
	3578		180			4342		179	
	3398		360			4163		359	
	10734	3578		2674		13027	4342		2666
9	3478		181			4531		180	
	3297		180			4351		179	
	3117		361			4172		359	
	9892	3297		3035		13054	4351		3025
10	3530		182			5692		189	
	3348		183			5503		186	
	3165		365			5317		375	
	10043	3348		3400		16512	5504		3400
		34294					44420		

F.B. 2844 PG. 50

DESCRIPTION AND REMARKS

Summation of Run
From B.M.
To B.M.

Total Backsights = + 34.294
Total Foresights = −44.420
Diff. Elev. = − 10.126

Backsight stadia = 3400
Foresight Stadia = 3400
Total Stadia = 6800
= 0.43 mi.

BM 109-5A
Palmdale Blvd at 115th St E.
See F.B. 2844-11

76P526-CE 379—10-57

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

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 LINE

Chief of Party E. E. Brooks Weather Clear & Wind Inst. No. 15066
Notes by A.R.B. Time 1:50 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-6A To BM 109-6
Date 3-28-61
Indexed H. E. On

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	7653		169		56°	3693		173		BM 109-6A
	7484		168			3520		175		Palmdale Blvd at 120th
	7316		337			3345		348		St. E.
	22453	7.484		337		10558	3.519		348	See F.B. 2844-12
										BM 109-6
										Palmdale Blvd at 120th
										St. E.
										See F.B. 2844-12
										T. LeGault
										Summation of Run
										From B.M. 109-6A
										To B.M. 109-6
										Total Backsights = + 7.484
										Total Foresights = — 3.519
										Diff. Elev. = +3.965
										Backsight stadia = .337
										Foresight Stadia = .348
										Total Stadia = .685
										= .04 mi.

F.B. 2845 P.G. 57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by A.R.B. Time 9:55 to 10:00 Rod No 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-6 To BM 109-6A
Date 3-29-61
Indexed H. E. OTT

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
1	2365		174		58°	6336		176		BM 109-6
	2191		171			6160		179		Palmdale Blvd at 120th St E.
	2020		345			5980		355		See F.B. 2844-12
	6576	2192		345		18477	6159		355	
										BM 109-6A
										Palmdale Blvd at 120th St. E.
										See F.B. 2844-12
										T Le Gault
										Summation of Run
										From B.M. 109-6
										To B.M. 109-6A
										Total Backsights = + 2.192
										Total Foresights = — 6.159
										Diff. Elev. = - 3.967
										Backsight stadia = .345
										Foresight Stadia = .355
										Total Stadia = .700
										= .04 mi

F.B. 2846 P.G. 52

76P526-CE 379—10-57

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

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 LINE

Chief of Party Brooks Weather Clear & Wind Inst. No. 15066
Notes by Barich H. Time 1:55 to 2:20 Rod No. 19-20

Name
Job No. 0301.02
From BM 109-6 To BM 109-7
Date 3-28-61
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
1	4158		200		56°	4159		180		BM 109-6
	3958		200			3979		179		Palmdale Blvd at 120th St. E.
	3758		400			3800		359		
	11874	3958		400		11938	3979		359	See F.B. 2844-12
2	4240		172			4013		191		
	4068		174			3822		189		
	3894		346			3633		380		
	12202	4067		746		11468	3823		739	
3	4512		181			3822		180		
	4331		180			3642		180		
	4151		361			3462		360		
	12994	4331		1107		10926	3642		1099	
4	4640		180			3849		179		
	4460		180			3670		180		
	4280		360			3490		359		
	13380	4460		1467		11009	3670		1448	
5	4599		180			3761		180		
	4419		180			3581		180		
	4239		360			3401		360		
	13257	4419		1827		10743	3581		1808	
	21235					18695				

F.B. 2845 P.G. 53

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

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 LINE.

Chief of Party F. E. Brooks Weather Cloudy & Wind Inst. No. 15066
Notes by ~~F. E. Brooks~~ A.R.B. Time 1:55 to 2:20 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301 02
From B.M. 109-6 To B.M. 109-7
Date 3-28-61
Indexed H. E. OT.

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	4649	21235	181	1827	56°	4184	18695	179	1808	
	4468		179			4005		179		
6	4289		360			3826		358		
	13406	4467		2187		12013	4005		2166	
	5151		180			2372		183		
	4971		182			2189		181		
7	4789		362			2008		364		
	14911	4970		2549		6569	2189		2530	
	5401		180			3657		183		
	5221		181			3474		181		
8	5040		361			3293		364		
	15662	5221		2910		10424	3475		2894	
	5005		174			3774		183		
	4831		172			3591		183		
9	4659		346			3408		366		
	14495	4832		3256		10773	3591		3260	
	4918		179			3658		180		
	4539		180			3478		180		
10	4359		359			3798		360		
	13616	4539		3615		10434	3478		3620	
		45264					35433			

F.B. 2045 P.G. 54

76P526-CE 379---10-57

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

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 LINE

Chief of Party R. E. Brooks Weather Cloudy & Wind Inst. No. 15066
Notes by A.R.B. Time 1:55 to 2:20 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From B.M 109-6 To B.M. 109-7
Date 3-28-61
Indexed H.E.O.T.

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	5195	45264	055	3615	56°	6929	35433	066	3620	B.M 109-7
11	5140		056			6863		066		Palmadle Blvd & 125th St. E.
	5084		111			6797		132		
	15419	5140		3726		20589	6863		3752	F.B. 2844-13
										Summation of Run
										From B.M. 109-6
										To B.M. 109-7
										Total Backsights = + 50404
										Total Foresights = − 42296
										Diff. Elev. = + 8.108
										Backsight stadia = 3.726
										Foresight Stadia = 3.752
										Total Stadia = 7.478
										= .47 mi.
										F.B. 2845 P.G. 53
		50484					42296			

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

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 LINE

Chief of Party E. E. Brooks — Weather Clear — Inst. No. 15066
Notes by F. E. Brooks — Time 9:30 - 9:55 — Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0.30.02
From B.M. 109-7 To B.M. 109-6
Date 29 March 1961
Indexed H. E. On

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
1	7.048		.068		49	5.313		.054		BM 109-7
	6.980		.066			5.259		.056		Palmdale Blvd at 125 ft SE
	6.914		.134			5.203		.110		E.
	20.942	6.981		.134	50°	15.775	5.258		.110	See F.B. 2844-13
2	4.720		.180			5.779		.178		
	4.540		.180			5.601		.179		
	4.360		.360			5.422		.357		
	13.620	4.540		.494		16.802	5.601		.467	
3	4.629		.178			5.871		.179		
	4.451		.179			5.692		.178		
	4.272		.357			5.514		.357		
	13.352	4.451		.851		17.077	5.692		.824	
4	4.603		.173			6.361		.188		
	4.430		.175			6.173		.186		
	4.255		.348			5.987		.374		
	13.288	4.429		1199		18.521	6.174		1198	
5	3.490		.182			6.271		.181		
	3.308		.183			6.090		.180		
	3.125		.365			5.910		.361		
	9.923	3.308		1564		18.271	6.090		1559	
		23.709					28.816			

F.B. 2845 P.G. 56

76P526-CE 379—10-57

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

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 LINE

Chief of Party F E Brooks Weather Clear Inst. No. 15066
Notes by F. E. Brooks Time 9:30 – 9:55 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 03.01.02
From B.M. 109-7 To B.M. 109-6
Date 29 March 1961
Indexed H. E. OTT

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
6	5.577	23.709	.179	1.564		6.038	28.815	.179	1.559	
	5.398		.178			5.859		.179		
	5.220		.357			5.680		.358		
	16.195	5.398		1.921		17.577	5.859		1917	
7	4.911		.181			5.749		.179		
	4.730		.179			5.570		.179		
	4.551		.360			5.391		.358		
	14.192	4.731		2.281		16.710	5.570		2.275	
8	4.943		.180			5.731		.180		
	4.763		.180			5.551		.178		
	4.583		.360			5.373		.358		
	14.289	4.763		2.141		16.655	5.552		2.633	
9	5.005		.180			5.698		.180		
	4.825		.180			5.518		.180		
	4.645		.360			5.338		.360		
	14.475	4.825		3.001		16.554	5.518		2993	
10	5.181		.181			5.420		.180		
	5.000		.181			5.240		.180		
	4.819		.362			5.060		.360		
	15.000	5.000		3.363		15.720	5.240		3353	
		48.426					56.564			

F.B. 2845 P.G. 57

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

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 LINE

Chief of Party E. E. Brooks Weather Clear Inst. No. 15066
Notes by F. E. Brooks Time 9:30 - 9:55 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From B.M. 109-7 To B.M. 109-6
Date 29-March 1961
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
11	5.148	48.126	.180	3.363		5.141	61.554	.194	3.353	B.M. 109-6
	4.968		.181			4.947		.194		Palmdale Blvd at 120th St. E.
	4.787		.361			4.753		.788		
	14.903	4.968		3.724		14.841	4.947		3.741	see F.B. 2844-12
										Summation of Run From B.M. 109-7 To B.M. 109-6
										Total Backsights = + 53.394 Total Foresights = − 61.501 Diff. Elev. = − 8.107
F.B. 2846 P.G. 58										Backsight stadia = 3.724 Foresight Stadia = 3.741 Total Stadia = 7.465 = .47 mi.
		53.394					61.501			

76P526-CE 379—10-57

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

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 LINE

Chief of Party E. E. Brooks Weather Clear-Windy Inst. No. 15066
Notes by F. E. Brooks Time 2:20 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From B.M. 109-7 To B.M. 109-7A
Date 28 March 1961
Indexed H. E. OT

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	6.808		.161		#19	5.632		.162		B.M. 109-7
1	6.647		.162			5.470		.163		Palmdale Blvd 125th St E.
	6.485		.323			5.307		.325		
	19.940	6.647		.323	56°	16.409	5.470		.325	F.B. 2844-13
										BM 109-7A
										Palmdale Blvd at 125th St E.
										See F.B. 2844-13
										↑ LeGault
										Summation of Run
										From B.M. 109-7
										To B.M. 109-7A
										Total Backsights = + 6.647
										Total Foresights = − 5.470
										Diff. Elev. = +1.177
										Backsight stadia = .323
										Foresight Stadia = .325
										Total Stadia = .648
										= .04 mi

F.B. 2845 P.G. 59

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

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 LINE

Chief of Party E. E. Brooks Weather Clear Inst. No. 15066
Notes by E. E. Brooks Time 9:25 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-7A To BM 109-7
Date 28 March 1961
Indexed H. E. Off

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	6.599		.167		#19	7.777		.165		BM 109-7A
	6.432		.163			7.612		.161		Palmdale Blvd at 125th St. E.
	6.769		.330			7.451		.326		
	19.300	6.433		.330	58°	22.840	7.613		326	See F.B. 2844-13
										BM 109-7
										Palmdale Blvd. at 125th St. E.
										See F.B. 2844-13
										T LeGault
										Summation of Run
										From B.M. 109-7A
										To B.M. 109-7
										Total Backsights = + 6.433
										Total Foresights = − 7.613
										Diff. Elev. = − 1.180
										Backsight stadia = .330
										Foresight Stadia = .326
										Total Stadia = .656
										= .04 mi

F.B. 2844 P.G. 60

76P526-CE 379—10-57

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

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 LINE

Chief of Party E. E. Brooks Weather Clear-Windy Inst. No. 15066
Notes by E. E. Brook Time 1:20 – 1:45 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0.301.02
From B.M. 109-7A To B.M. 109-8A
Date 30 March 1961
Indexed H. E. on

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
1	7.076		.193		#19	4.097		.180		B.M. 109-7A
	6.883		.191			3.917		.180		Palmdale Blvd & 125th St E.
	6.692		.384			3.737		.360		
	20.651	6.884		.384	72°	11.751	3.917		.360	F.B. 2844-13
2	4.941		.176			3.702		.186		
	4.765		.175			3.516		.185		π Bari 1 of 4
	4.580		.351			3.331		.371		
	14.296	4.765		.735		10.549	3.516		.731	
3	4.869		.180			3.217		.181		
	4.689		.180			3.036		.183		
	4.509		.360			2.853		.364		
	14.067	4.689		1.095		9.106	3.035		1.095	
4	5.181		.181			3.433		.180		
	5.000		.181			3.253		.180		
	4.819		.361			3.073		.360		
	15.000	5.000		1.456		9.759	3.253		1.455	
5	4.883		.180			4.871		.181		
	4.703		.180			4.690		.182		
	4.523		.360			4.508		.363		
	14.109	4.703		1.816		14.069	4.690		1.818	
		26.041					18.411			

F.B. 2845 P.G. 11

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

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 LINE

Chief of Party E. E. Brooks Weather Clear, Windy Inst. No. 15066
Notes by E. E. Brooks Time 1120 - 1145 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM109-9A To BM109-8A
Date 30 March 1961
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
6	4.064	26.041	.183	1.816		5.925	18.411	.182	1.818	
	3.881		.182			6.743		.181		
	3.699		.365			5.562		.363		
	12.644	3.881		2.181		17.230	5.743		2.181	
7	4.443		.184			4.691		.183		
	4.259		.181			4.508		.182		
	4.078		.365			4.326		.365		
	12.780	4.260		2.546		13.525	4.508		2.546	
8	4.213		.184			3.041		.184		
	4.029		.183			2.857		.180		
	3.846		.367			2.677		.364		
	12.088	4.029		2.913		8.575	2.858		2.910	
9	4.514		.182			3.293		.183		
	4.332		.182			3.110		.182		
	4.150		.364			2.928		.365		
	12.996	4.332		3.277		9.331	3.110		3.275	
10	4.274		.183			3.023		.185		
	4.091		.183			2.838		.181		
	3.908		.366			2.657		.366		
	12.273	4.091		3.643		8.518	2.839		3.641	
		46.634					37.469			

F.B. 3845 P.G. 62

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by F. E. Brooks Time 1:20 - 1:45 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-7A To BM 109-8A
Date 30 March 1961
Indexed H. E. O.

Number of Station	Backsight Thread Readings	Backsight Mean	Backsight Thread Intervals	Backsight Sum of Intervals	B. S. Rod and Temp.	Foresight Thread Readings	Foresight Mean	Foresight Thread Intervals	Foresight Sum of Intervals	Description and Remarks
11	3.471	41.634	.047	3.643		4.622	37.469	.047	3.641	BM 109-8A
	3.424		.046			4.575		.047		Palmdale Blvd at 130th
	3.378		.093			4.528		.094		St. E.
	10.273	3.424		3.736		13.725	4.575		3.735	See F.B. 2844-14
		50.058					42.044			

Summation of Run
~~From B.M. 109-9A~~
To B.M. 109-8A

Total Backsights = + 50.058
Total Foresights = − 42.044
Diff. Elev. = + 8.014

Backsight stadia = 3.736
Foresight Stadia = 3.735
Total Stadia = 7.471
= .47 mi.

F.B. 2845 P.G. 63

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Wind Inst. No. 15066
Notes by Esquer Time 10:40 - 11:10 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-BA To BM 109-7A
Date 4-5-61
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
1	4751		048		#19	3601		048		BM 109-BA
	4703		046			3553		047		Palmdale Blvd at 130th
	4657		094			3506		095		St. E.
	14111	4704		094	78°	10660	3553		095	See F.B. 2844-14
2	3343		183			4593		182		T Bariotti
	3160		182			4411		184		
	2978		365			4227		366		
	9481	3160		459		13231	4410		461	
3	3262		184			4484		182		
	3078		184			4302		183		
	2894		368			4119		365		
	9234	3078		827		12905	4302		826	
4	3140		182			4312		184		
	2958		181			4128		182		
	2777		363			3946		366		
	8875	2958		1190		12386	4129		1192	
5	4243		183			3998		182		
	4060		181			3816		181		
	3879		364			3635		363		
	12182	4061		1554		11449	3816		1555	
		17.961					20.210			

F.B. 2845 P.G. 64

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear-Wind Inst. No. 15066
Notes by Esquer Time 10:40-11:10 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM109-8A To BM109-7A
Date 4-5-61 E.E. OH
Indexed

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
6	6213	17.961	181	1554		4351	20.210	183	1555	
	6032		181			4168		181		
	5851		362			3987		364		
	18096	6032		1916		12506	4169		1919	
7	5223		183			5237		180		
	5040		181			5057		180		
	4859		364			4877		360		
	15122	5041		2280		15171	5057		2279	
8	3658		180			5408		184		
	3478		178			5224		181		
	3300		358			5043		365		
	10436	3479		2638		15675	5225		2644	
9	3450		181			5106		180		
	3269		181			4926		180		
	3088		362			4746		360		
	9807	3269		3000		14778	4926		3004	
10	3637		180			4885		182		
	3457		180			4703		181		
	3277		360			4522		363		
	10371	3457		3360		14110	4703		3367	
		39.239					44.290			

F.B. 2845 P.G. 65

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Wind Inst. No. 15066
Notes by Esquer Time 10:40 - 11:10 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-8A To BM 109-7A
Date 4-5-61
Indexed H. E. On

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
11	3631	39.239	180	3360		6611	44.290	191	3367	BM 109-7A
	3451		178			6420		189		Palmdale Blvd at 125th
	3273		358			6231		380		St. - E.
	10355	3452		3718		19262	6421		3747	See F.B. 2844-13
										Summation of Run
										From B.M. 109-8A
										To B.M. 109-7A
										Total Backsights = + 42.691
										Total Foresights = - 50.711
										Diff. Elev. = - 8.020
										Backsight stadia = 3.718
										Foresight Stadia = 3.747
										Total Stadia = 7.465
										= .47mi
		42.691					50.711			

F.B. 2845 P.G. 66

76P526-CE 379--10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by F. E. Brooks Time 1:50 Rod No. 19-20

Name L. A. Co. Precise Level Net
Job No. 0301.02
From B.M. 109-8A To B.M. 109-8
Date 30 March 1961
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	6.648		.149		#19	4.098		.158		B.M. 109-8A
	6.499		.148			3.940		.156		Palmdale Blvd & 130th St. E.
1	6.351	1	.297			3.784		.314		
	19.498	6.499		.297	72°	11.822	3.941		.314	F.B. 2844-14
										BM 109-8
										Palmdale Blvd at 130th St.
										E.
										See F.B. 2844-14
										T Barilotti
										Summation of Run
										From B.M. 109-8A
										To B.M. 109-8
										Total Backsights = + 6.499
										Total Foresights = − 3.941
										Diff. Elev. = +2.558
										F.B. 2845 P.G. 17
										Backsight stadia = .297
										Foresight Stadia = .314
										Total Stadia = .611
										= .04mi

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by F. E. Brooks Time 10:35 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-B To BM 109-BA
Date 5 April
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	4.249		.151		#19	6.813		.155		BM 109-B
	4.098		.148			6.658		.156		Palmdale Blvd at 130th
	3.950		.299			6.502	/	.311		St. E
	12.297	4.099		.299	78°	19.973	6.658		.311	See F.B. 2844-14
										BM 109-BA
										Palmdale Blvd at 130th
										St. E.
										See F.B. 2844-14
										J. Bariloti
										Summation of Run
										From B.M. 109-B
										To B.M. 109-BA
										Total Backsights = + 4.099
										Total Foresights = − 6.658
										Diff. Elev. = − 2.559 /
										Backsight stadia = .299
										Foresight Stadia = .311
										Total Stadia = .610
										= .04 mi.

F.B. 2845 P.G. 68

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear-Windy Inst. No. 15066
Notes by Esquer Time 2:00 - 2:25 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From B.M. 109-8 To B.M. 109-9
Date 3-30-61
Indexed H. E. on

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
1	3295		197			4800		178		B.M. 109-8.
	3098		198			4622		177		Palmadle Blvd & 130th St. E.
	2900		395			4445		355		
	9293	3098		395		13867	4622		355	F.B. 2844-14
2	5508		177			3132		185		K Barilotti
	5331		174			2947		185		
	5157		351			2762		370		
	15996	5332		746		8841	2947		725	
3	4629		176			3465		187		
	4453		175			3278		187		
	4278		351			3091		374		
	13360	4453		1097		9834	3278		1099	
4	4574		181			2146		181		
	4393		181			1965		181		
	4212		362			1784		362		
	13179	4393		1459		5895	1965		1461	
5	4528		183			3781		183		
	4345		181			3598		181		
	4164		364			3417		364		
	13037	4346		1823		10796	3599		1825	
		21622					16.411			

F.B. 2845 P.G. 69

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

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 LINE

Chief of Party F. E. Brooks Weather Clear-Windy Inst. No. 15066
Notes by Esquer Time 2:00 - 2:25 Rod No 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-8 To BM 109-9
Date 3-30-61
Indexed H. E. OTT

F.B. 2845 PG. 70

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
6	4669	21.622	178	1823		3842	16.411	180	1825	
	4491		180			3662		180		
	4311		358			3482		360		
	13471	4490		2178		10986	3662		2185	
7	3651		178			3372		182		
	3473		176			3190		182		
	3297		354			3058		364		
	10421	3474		2532		9570	3190		2549	
8	4144		177			4162		180		
	3967		181			3982		182		
	3786		358			3800		362		
	11897	3966		2890		11944	3981		2911	
9	4168		185			3313		177		
	3983		185			3136		178		
	3798		370			2958		355		
	11949	3983		3260		9407	3136		3261	
10	4645		178			2299		179		
	4467		179			2120		181		
	4288		357			1939		360		
	13400	4467		3617		6358	2119		3626	
		42.002					32.499			

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by Esquer Time 2:00 - 2:25 Rod No. 19-20

L. A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-8 To BM 109-9
Date 3-30-61 E.E. on
Indexed

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	4718	42.002	060	3617		4575	32.499	077	3626	BM 109-9
11	4658		060			4498		076		Palmdale Blvd. & 135 St. E
	4598		120			4422		153		
	13974	4658		3.737		13495	4498		3.779	See F.B. 2844-15
										Summation of Run From B.M. 109-8 To B.M 109-9
										Total Backsights = + 46.660 Total Foresights = — 36.997 Diff. Elev. = + 9.663
										Backsight stadia = 3.737 Foresight Stadia = 3.779 Total Stadia = 7.516
										F.B. 2844 P.G. 17
		46.660					36.997			

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by F. E. Brooks Time 10:05 - 10:30 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-9 To BM 109-8
Date 5 April 1961
Indexed E. E. On

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
1	4.930		.075		#19	5.077		.062		BM 109-9
	4.855		.075			5.015		.060		Palmdale Blvd. & 135 St. E
	4.780		.150			4.955		.122		
	14.565	4.855		.150	78°	15.047	5.016		.122	See F.B. 2844-15
2	2.523		.180			4.867		.179		
	2.343		.182			4.688		.180		↑ Barrio Hi
	2.161		.362			4.508		.359		
	7.027	2.342		.512		14.063	4.688		.481	
3	3.394		.180			4.244		.182		
	3.214		.181			4.062		.179		
	3.033		.361			3.883		.361		
	9.641	3.214		.873		12.189	4.063		.842	
4	4.456		.177			4.445		.183		
	4.279		.178			4.262		.185		
	4.101		.355			4.077		.368		
	12.836	4.279		1.228		12.784	4.261		1.210	
5	3.697		.180			3.981		.180		
	3.517		.180			3.801		.178		
	3.337		.360			3.623		.358		
	10.551	3.517		1.588		11.405	3.802		1.568	
		18.207					21.830			

F.B. 2845 P.G. 72

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by F. E. Brooks Time 10:06 - 10:30 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-9 To BM 109-8
Date 5 April 1961
Indexed H. E. Ohs

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	4.134	18.209	.177	1.588		4.963	21.830	.181	1.568	
6	3.957		.178			4.782		.183		
	3.779		.355			4.599		.364		
	11.870	3.957		1943		14.344	4.781		1.932	
	3.896		.180			4.648		.183		
7	3.716		.180			4.465		.184		
	3.536		.360			4.281		.367		
	11.148	3.716		2.303		13.394	4.465		2.299	
	2.385		.177			4.820		.183		
8	2.208		.177			4.637		.186		
	2.031		.354			4.451		.369		
	6.624	2.208		2.657		13.908	4.636		1.668	
	3.592		.180			4.771		.181		
9	3.412		.180			4.590		.181		
	3.232		.360			4.409		.362		
	10.236	3.412		3.017		13.770	4.590		3.030	
	3.584		.185			5.959		.177		
10	3.399		.182			5.782		.179		
	3.217		.367			5.603		.356		
	10.200	3.400		3.384		17.344	5.781		3.386	
		34.900					46.083			

F.B. 1965 P.G. 73

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by F. E. Brooks Time 10:05 - 10:30 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-9 To BM 109-8
Date 5 April 1961
Indexed H. E. OTT

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	5.262	34.900	.182	3.384		3.751	46.083	.194	3.386	BM 109-8
11	5.080		.181			3.557		.193		Palmdale Blvd. & 130 St. E.
	4.899		.363			3.364		.384		
	15.241	5.080		3.747		10.672	3.557		3.773	See F.B. 2844-14
										Summation of Run From B.M. 109-9 To B.M. 109-8
										Total Backsights = + 39.980 Total Foresights = − 49.640 Diff. Elev. = − 9.660
										Backsight stadia = 3.747 Foresight Stadia = 3.773 Total Stadia = 7.520 = .48m.
		39.980					49.640			

F.B. 2845 P.G. 24

76P526-CE 379—10-57

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

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 LINE

Chief of Party E. E. Brooks Weather Clear Inst. No. 15066
Notes by F. E. Brooks Time 9:35 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From B.M. 109-9 To B.M. 109-9A
Date 3 April 1961
Indexed B. E. Orr

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	6.798		.165		#19	5.323		.172		B.M. 109-9:
	6.633		.163			5.151		.170		Palmdale Blvd & 135th St E.
1	6.470		.328			4.981		.342		
	19.901	6.634		328	82°	15.455	5.152		.342	F.B. 2844-15
										B.M. 109-9A
										Palmdale Blvd at 135th St. E.
										See F.B. 2844-15
										A Le Gault
										Summation of Run
										From B.M. 109-9
										To B.M. 109-9A
										Total Backsights = + 6.634
										Total Foresights = − 5.152
										Diff. Elev. = + 1.482
										Backsight stadia = .328
										Foresight Stadia = .342
										Total Stadia = .670
										= .04 mi.

F.B. 2845 P.G. 15

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

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 LINE

Chief of Party F. E. Brady Weather Clear Inst. No. 15066
Notes by Esquer Time 10:05- Rod No 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM109-9 To BM109-9A
Date 4-5-61
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	4996		169			6472		162		BM109-9
1.	4827		168			6310		163		Palmdale Blvd at 135Th St. E
	4659		337			6147		325		See F.B. 2844-15
	14482	4827		337		18929	6310		325	
										BM109-9
										Palmdale Blvd at 135Th St. E.
										See F.B. 2844-15
										T LeGoult
										Summation of Run
										From B.M. 109-9
										To B.M. 109-9A
										Total Backsights = + 4.827
										Total Foresights = − 6.310
										Diff. Elev. = − 1.483
										Backsight stadia = 0.337
										Foresight Stadia = 0.325
										Total Stadia = 0.662
										.04mi
		4.827					6.310			

F.B. 2844 P.G. 16

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by F. E. Brooks Time 9:40-10:00 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From B.M. 109-9A To B.M. 109-10A
Date 4 April 61
Indexed H. E. OTT

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
1	6.210		.192		A19	4.078		.175		B.M. 109-9A
	6.018		.193			3.903		.172		Palmdale Blvd & 135th E.
	5.825		.385			3.731		.347		
	18.053	6.018		.385	86°	11.712	3.904		.347	F.B. 2844-15
2	4.834		.175			4.045		.186		
	4.659		.177			3.859		.184		J. LeGault
	4.482		.352			3.675		.370		
	13.975	4.658		.737		11.579	3.860		.717	
3	4.746		.174			4.802		.183		
	4.572		.172			4.619		.187		
	4.400		.346			4.432		.370		
	13.718	4.573		1.083		13.853	4.618		1.087	
4	4.498		.179			4.045		.178		
	4.319		.179			3.867		.179		
	4.140		.358			3.688		.357		
	12.957	4.319		1.441		11.600	3.867		1.444	
5	5.749		.180			3.751		.179		
	5.569		.180			3.572		.179		
	5.389		.360			3.393		.358		
	16.707	5.569		1.801		10.716	3.572		1.802	
		26.137					19.821			

F.B. 2844 P.G. 17

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. K5011
Notes by F. E. Brooks Time 9:40 - 10:00 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. - 0301.02
From BM 109-9A To BM 109-10A
Date 3 April 1961
Indexed E. E. Ott

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
6	5.121	35.137 / 25.137	.180	1.801		4.042	19.821	.179	1.802	
	4.941		.181			3.863		.181		
	4.760		.361			3.682		.360		Summation of Run
	14.822	4.941		2.162		11.587	3.862		2.162	From B.M. 109-9A
										To B.M. 109-10A
7	5.269		.180			5.072		.182		
	5.089		.179			4.890		.181		Total Backsights = + 52.561
	4.910		359			4.709		.363		Total Foresights = - 40.278
	15.268	5.089		2.521		14.671	4.890		2.525	Diff. Elev. = + 12.283
8	5.888		.182			4.171		.179		
	5.706		.181			3.992		.178		Backsight stadia = 3.604
	5.525		.363			3.814		.357		Foresight Stadia = 3.631
	17.119	5.906		2.884		11.977	3.992		2.882	Total Stadia = 7.235
										= .46 mi
9	6.158		.180			3.508		.179		
	5.978		.180			3.329		.178		
	5.798		.360			3.151		.357		
	17.934	5.978		3.244		9.988	3.329		3.239	
10	5.890		.180			4.581		.198		BM 109-10A
	5.716		.180			4.383		.194		Palmdale Blvd at 140th
	5.530		.360			4.189		.392		St. E.
	17.130	5.710		3.604		13.153	4.384		3.631	See F.B. 2844-16
		52.561					40.278			

F.B. 2845 P.G. 18

76P526-CE 379—10-57

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

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 LINE

Chief of Party E. E. Brooks Weather Clear Inst. No 15066
Notes by Esquer Time 9:35-10:00 Rod No 19-20

Name L.A. Co. Precise Level Net
Job No 6301.02
From BM 109-10A To BM 109-9A
Date 4-5-61
Indexed H. E. on

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
1	3929		196		#19	5239		180		BM 109-10A
	3733		194			5059		180		Palmdale Blvd at 140th
	3539		390			4879		360		St. E.
	11201	3734		390	76°	15177	5059		360	See F.B. 2844-16
2	3230		172			5890		186		
	3058		175			5704		184		π Le Gault
	2883		347			5520		370		
	9171	3057		737		17114	5705		730	
3	3673		178			5391		183		
	3495		177			5208		182		
	3318		355			5026		365		
	10486	3495		1092		15625	5208		1095	
4	4638		183			4834		181		
	4455		182			4653		180		
	4273		365			4473		361		
	13366	4455		1457		13960	4653		1456	
5	3391		181			4470		182		
	3210		179			4288		180		
	3031		360			4108		362		
	9632	3211		1817		12866	4289		1818	
		17.952					24.914			

F.B. 2595 P.G. 19

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by Esquer Time 9:35-10:00 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-10A To BM 109-9A
Date 4-5-61
Indexed H. E. OTT

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
6	2778	17.952	179	1817		4778	24.914	185	1818	
	2599		180			4593		181		
	2419		359			4412		366		Summation of Run
	7796	2599		2176		13783	4594		2184	From B.M. 109-10A
										To B.M. 109-9A
7	3251		179			3702		180		
	3072		180			3522		179		Total Backsights = + 34.298
	2892		359			3343		359		Total Foresights = − 46.569
	9215	3072		2535		10567	3522		2543	Diff. Elev. = − 12.271
8	4032		177			3989		180		
	3855		177			3809		180		Backsight stadia = 3.614
	3678		354			3629		360		Foresight Stadia = 3.634
	11565	3855		2889		11427	3809		2903	Total Stadia = 7.248
										= .46 mi
9	3368		180			4165		183		
	3188		180			3982		180		
	3008		360			3802		363		
	9564	3188		3249		11949	3983		3266	
10	3815		183			5931		183		BM 109-9A
	3632		182			5748		185		Palmdale Blvd at 135th
	3450		365			5563		368		St. E.
	10897	3632		3614		17242	5747		3634	See F.B. 2844-15
		34.298					46.569			

F.B. 2845 P.G. 80

76P526-CE 379—10-57

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

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 LINE

Chief of Party E. E. Brooks — Weather Clear — Inst. No. 15066
Notes by F. E. Brooks — Time 11:15 - 11:40 — Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-91 To BM 109-101
Date 5 April 1961
Indexed H. E. On

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	5.972		.192		#19	3.841		.175		BM 109-91
	5.780		.190			3.666		.174		Palmdale Blvd at 135th St.
1	5.590		.382			3.492		.349		E.
	17.342	5.781		.382	80°	10.999	3.666		.349	See F.B. 2844-15
	4.791		.182			3.993		.180		
	4.609		.182			3.813		.180		T Le Gault
2	4.427		.364			3.633		.360		
	13.827	4.609		.746		11.439	3.813		.909	
	4.322		.175			4.376		.184		
	4.147		.177			4.192		.183		
3	3.970		.352			4.009		.367		
	12.439	4.146		1.098		12.577	4.192		1.076	
	4.321		.179			3.870		.180		
	4.142		.179			3.690		.179		
4	3.963		.358			3.511		.359		
	12.426	4.142		1.456		11.071	3.690		1.435	
	5.449		.180			3.452		.179		
	5.269		.180			3.273		.180		
5	5.089		360			3.093		.359		
	15.807	5.269		1.816		9.818	3.273		1.994	
		23.947	1				18.634			

F.B. 2845 P.G. 41

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 16066
Notes by F. E. Brooks Time 11:15 - 11:40 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-9A To BM 109-10A
Date 5 April 1961
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	4.781	23947	.176	1.816		3.711	18.634	.183	1.794	
	4.605		.175			3.528		.187		
6	4.430		.351			3.341		.370		Summation of Run
	13.816	4.605		2.167		10.580	3.527		2.164	From B.M. 109-9A
										To B.M. 109-10A
	5.172		.181			4.978		.185		
	4.991		.179			4.793		.181		Total Backsights = + 50.324
7	4.812		.360			4.612		.366		Total Foresights = − 38.050
	14.975	4.992		2.527		14.383	4.794		2.530	Diff. Elev. = + 12.274
	5.811		.181			4.093		.178		
	5.630		.181			3.915		.178		Backsight stadia = 3.600
8	5.449		.362			3.737		.356		Foresight Stadia = 3.833
	16.890	5.630		2.889		11.745	3.915		2.886	Total Stadia = 7.233
										= .46 mi
	5.951		.180			3.304		.179		
	5.771		.180			3.125		.180		
9	5.591		.360			2.945		.359		
	19.313	5.771		3.249		9.374	3.125		3.245	
	5.560		.181			4.249		.195		BM 109-10A
	5.379		.180			4.054		.193		Palmdale Blvd at 140th
10	5.199		.361			3.861		.388		St. E.
	16.138	5.379		3.600		12.164	4.055		3.633	See F.B. 2844-16
		50.324					38.050			

F.B. 2844 P.G. 62

76P526-CE 379—10-57

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

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 LINE

Chief of Party E. E. Brooks Weather Clear Inst. No. 15066
Notes by Esquer Time 10:05 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-10A To BM 109-10
Date 4 April 1961
Indexed H. E. Ost

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	5199		091		#19	5178		099		BM 109-10A
1	5108		088			5079		098		Palmdale Blvd at 140th
	5020		179			4981		197		St. E
	15.327	5.109		179	80°	15.238	5.079		197	See F.B. 2844-16
										BM 109-10
										Palmdale Blvd at 140th
										St. E.
										See F.B. 2844-16
										↑ LeGault
										Summation of Run
										From B.M. 109-10A
										To B.M. 109-10
										Total Backsights = + 5.109
										Total Foresights = — 5.079
										Diff. Elev. = +0.030
										Backsight stadia = .179
										Foresight Stadia = .197
										Total Stadia = .376
										= .02 mi.

F.B. 3945 P.G. 67

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by F. E. Brooks Time 2:20 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-10 To BM 109-10 A
Date 4 April 1961
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	4.777		.096			4.799		.087		BM 109-10
	4.681		.098			4.712		.089		Palmdale Blvd at 140 Th St.
	4.583		.194			4.623		.176		E.
	14.041	4.680		.194		14.134	4.711		.176	See F.B. 2844-16
										BM 109-10A
										Palmdale Blvd at 140 Th St. E.
										See F.B. 2844-16
										I Le Gault
										Summation of Rs.
										From B.M. 109-10
										To B.M. 109-10A
										Total Backsights = + 4.680
										Total Foresights = − 4.711
										Diff. Elev. = - 0.031
										Backsight stadia = 194
										Foresight Stadia = 176
										Total Stadia = 370
										= .07 mi

F.B. 2845 P.G. 84

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by Esquer Time 10:10 - 10:45 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From B.M. 109-10 To B.M. 109-11
Date 4-3-61
Indexed H. E. on

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
1	5391		205		#19	4357		179		B.M. 109-10.
	5186		204			4178		179		Palmdale Blvd & 140th St. E.
	4982		409			3999		358		
	15559	5186		409	88°	12534	4178		358	F.B. 2844-16
2	5171		180			4171		172		
	4991		178			3999		174		T LeGault
	4813		358			3825		346		
	14975	4992		767		11995	3998		704	
3	5224		168			4631		192		
	5056		169			4439		192		
	4887		337			4247		384		
	15167	5056		1104		13317	4439		1088	
4	4749		172			4685		187		
	4577		176			4498		188		
	4401		348			4310		375		
	13727	4576		1452		13493	4498		1463	F.B. 2845 P.G. 25
5	5032		180			4031		181		
	4852		178			3850		181		
	4674		358			3669		362		
	14558	4853		1810		11550	3850		1825	
		24.663					20.963			

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No 15066
Notes by Esguer Time 10:10 - 10:45 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-10 To BM 109-11
Date 4-3-61
Indexed H. E. OTT

F.B. 2340 P.G. 86

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
6	5385	24.663	180	1810		4183	20.963	180	1825	
	5205		180			4003		180		
	5025		360			3823		360		
	15615	5205		2170		12009	4003		2185	
7	4242		180			4440		181		
	4062		181			4259		182		
	3881		361			4077		363		
	12185	4062		2531		12776	4259		2548	
8	6528		186			4212		171		
	6342		190			4041		173		
	6152		376			3868		344		
	19022	6341		2907		12121	4040		2892	
9	5908		181			4627		184		
	5727		183			4443		181		
	5544		364			4262		365		
	17179	5726		3271		13332	4444		3257	
10	5041		179			4080		182		
	4862		178			3898		183		
	4684		357			3715		365		
	14587	4862		3628		11693	3898		3622	
		50.859					41.607			

76P526-CE 379—10-57

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

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 LINE

Chief of Party E. E. Brooks Weather Clear Inst. No. 15066
Notes by Esquer Time 10:10 - 10:45 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-10 To BM 109-11
Date 4-3-61
Indexed B.E.on

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
11	5611	50.859	180	3628		4577	41.607	180	3422	
	5431		180			4397		180		
	5251		360			4217		360		
	16293	5431		3988		13191	4397		3982	
12	5153		039			5988		047		BM 109-11
	5114		039			5941		048		Palmdale Blvd. 145 St. E.
	5075		078			5893		095		
	15342	5114		4066		17822	5941		4077	See F.B. 2488-17
										Summation of Run
										From B.M. 1-09-10
										To B.M. 109-11
										Total Backsights = + 61.404
										Total Foresights = − 51.945
										Diff. Elev. = + 9.459
										Backsight stadia = 4.066
										Foresight Stadia = 4.077
										Total Stadia = 8.143
										= .52 mi
		61.404					51.945			

F.B. 2488 P.G. 17

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

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 LINE

Chief of Party E. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by F. E. Brooks Time 1:45 - Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-11 To BM 109-10
Date 4 April 1961
Indexed H. E. OTT

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
1	5.618		.046		#19	4.782		.039		BM 109-11
	5.572		.047			4.743		.040		Palmdale Blvd. 145 St. E.
	5.525		.093			4.703		.079		
	16.715	5.572		.093	95°	14.228	4.743		.079	see F.B. 2844-17
2	4.148		.175			5.191		.183		T LeGault
	3.973		.174			5.008		.187		
	3.799		.349			4.821		.370		
	11.920	3.973		.442		15.020	5.007		.449	
3	3.448		.180			4.413		.181		
	3.268		.182			4.232		.181		
	3.086		.362			4.051		.362		
	9.802	3.267		.804		12.696	4.232		.811	
4	4.196		.183			5.474		.182		
	4.013		.181			5.292		181		
	3.832		.364			5.111		.363		
	12.041	4.014		1.168		15.877	5.292		1.174	
5	3.964		.180			6.270		.181		
	3.784		.180			6.089		.180		
	3.604		.360			5.909		.361		
	11.352	3.784		1.528		18.268	6.089		1.535	
		20.610					16.363			

F.B. 2845 P.G. 28

76P526-CE 379—10-57

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

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 LINE

Chief of Party E. E. Brooks Weather Clear - Windy Inst. No. 45066
Notes by F. E. Brooks Time 1:45 - Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-11 To BM 109-10
Date 4 April 1961
Indexed H. E. OT

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
6	3.872	20.616	.183	1.528		3.674	25.363	.182	*535	
	3.689		.181			3.492		.178		
	3.508		.364			3.314		.360		
	11.069	3.690		1892		10.480	3.493		1.895	
7	3.532		.180			4.737		.179		
	3.352		.180			4.568		.182		
	3.172		.360			4.376		.361		
	10.056	3.352		2.252		13.671	4.557		2.256	
8	3.140		.181			4.142		.180		
	2.959		.179			3.962		.179		
	2.780		.360			3.787		.359		
	8.879	2.960		2.612		11.887	3.962		2.615	
9	3.997		.182			4.072		.181		
	3.815		.182			3.892		.179		
	3.633		.364			3.713		.360		
	11.445	3.815		2976		11.678	3.893		2.975	
10	3.589		.181			4.203		.181		
	3.408		.180			4.022		.177		
	3.228		.361			3.845		.358		
	10.705	3.408		3337		12.070	4.023		3.333	
		31.035					45.291			

F.B. 2945 P.G. 89

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by F. E. Brooks Time 1:45 - 2:15 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-11 To BM 109-10
Date 4 April 1941
Indexed H. E. Ott

Number of station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	2.784	39.835	.176	3.337		3.782	45.291	.180	3.333	
11	2.608		.173			3.602		.180		
	2.435		.349			3.422		.360		
	7.827	2.609		3.686		10.806	3.602		3.693	
	3.157		.181			4.187		.205		BM 109-10
12	2.976		.179			3.982		.202		Palmdale Blvd. 145 St. E.
	2.797		.360			3.780		.407		
	8.930	2.977		4.046		11.949	3.983		4.100	See F.B. 2844-16
										Summation of Run From B.M. 109-11 To B.M. 109-10
										Total Backsights = + 43.421 Total Foresights = − 52.876 Diff. Elev. = − 9.455
										Backsight stadia = 4.046 Foresight Stadia = 4.100 Total Stadia = 8.146 = .52 mi.
		43.421					52.876			

F.B. 1845 P.G. 90

76P526-CE 379—10-57

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

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 LINE

Chief of Party ~~E. F. Brooks~~ Weather Clear Inst. No. 15066
Notes by F. E. Brooks Time 10:45-10:50 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From B.M. 109-11 To B.M. 109-11A
Date 3 April 1961
Indexed H. E. On

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
1	6.431		.188		#19	4.487		.184		B.M. 109-11
	5.243		.187			4.303		.183		Palmdale Blvd & 145th St. E
	5.056		.375			4.120		.367		
	16.730	5.243		.375	90°	12.910	4.303		.367	F.B. 2844-17
2	6.789		.152			6.244		.151		B.M. 109-11A
	6.637		.152			6.093		.151		Palmdale Blvd at 145th St. E.
	6.485		.304			6.942		.302		
	19.911	6.637		.679		18.279	6.093		.669	See F.B. 2844-17
										K. Barilotti
										Summation of Run From B.M. 109-11 To B.M. 109-11A
										Total Backsights = + 11.880 Total Foresights = − 10.396 Diff. Elev. = + 1.484
										Backsight stadia = .679 Foresight Stadia = .669 Total Stadia = 1.348 = .09 mi.
		11.880					10.396			

F.B. 2845 - P.G. 91

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Wind Inst. No. 15066
Notes by Esquer Time 1:40 - 1:45 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-11A To BM 109-11
Date 9-4-61
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
1	5302		150			5850		153		BM 109-11A
	5152		150			5697		153		Palmdale Blvd at 145th St. E.
	5002		300			5544		306		
	15456	5152		300		17091	5697		306	See F.B. 2844-17
2	3564		184			4511		189		BM 109-11
	3380		182			4322		187		Palmdale Blvd at 145th St. E
	3198		366			4135		376		
	10142	3381		666		12968	4323		682	See F.B. 2844-17
										T Barilotti
										Summation of Run From B.M. To B.M.
										Total Backsights = + 8.533 Total Foresights = - 10.020 Diff. Elev. = - 1.487
										Backsight stadia = 0.666 Foresight Stadia = 0.682 Total Stadia = 1.348 .09 mi
		8.533					10.020			

F.B. 1844 P.G. 92

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by F. E. Brooks Time 10:50 - 11:15 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From B.M.109-11A To B.M.109-12
Date 3 April 1961
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	5.862		.195		#19	4.632		.181		B.M.109-11A
	5.667		.193			4.451		.180		Palmdale Blvd & 145th St. E.
1	5.474		.388			4.271		.361		
	17.003	5.668		.388	90°	13.354	4.451		.361	F.B. 2844-17
	5.601		.180			4.977		.182		
	5.421		.179			4.795		.182		T Bari lo Hi
2	5.242		.359			4.613		.364		
	16.264	5.421		.747		14.385	4.795		.725	
	5.029		.174			4.980		.187		
	4.855		.176			4.793		.187		
3	4.679		.350			4.606		.374		
	14.563	4.854		1.097		14.379	4.793		1.099	
	5.739		.179			4.060		.180		
	5.560		.179			3.880		.180		
4	5.381		.358			3.700		.360		
	16.680	5.560		1.455		11.640	3.880		1.459	
	5.899		.180			4.449		.184		
	5.719		.180			4.265		.183		
5	5.539		.360			4.082		.367		
	17.157	5.719		1.815		12.796	4.265		1.826	
		27.222					22.184			

F.B. 2845 P.G. 33

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by F. E. Brooks Time 10:50 - 11:15 Rod No. 19-20

~~L.A. Co. Precise Level No.~~

Name
Job No. 0301.02
From BM 109-114 To BM 109-12
Date 3 April 1961
Indexed H. E. OD

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
6	6.453	27.222	.180	1.815		3.858	22.184	.181	1.826	
	6.273		.180			3.677		.180		
	6.093		.360			3.497		.361		
	18.819	6.273		2.175		11.032	3.677		2.187	
7	6.213		.181			4.513		.183		
	6.032		.181			4.330		.182		
	5.851		.362			4.148		.365		
	18.096	6.032		2.537		12.991	4.330		2.552	
8	5.558		.185			4.993		.180		
	5.373		.182			4.813		.180		
	5.191		.367			4.633		.360		
	16.122	5.374		2.904		14.439	4.813		2.912	
9	5.806		.182			4.711		.183		
	5.624		.180			4.528		.181		
	5.444		.362			4.347		.364		
	16.874	5.625		3.266		13.586	4.529		3.276	
10	4.449		.184			7.691		.183		
	4.265		.180			7.508		.181		
	4.085		.364			7.327		.364		
	12.799	4.266		3.630		22.526	7.509		3.640	
		54.792					47.042			

F.B. 2845 P.G. 94

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by F. E. Brooks Time 10:50 - 11:15 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-11A To BM 109-12
Date 3 April
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	5.910	54.792	.055	3.630		4.103	47.042	.058	3.640	BM 109-12
	5.855		.055			4.045		.057		Palmdale Blvd at 150th
11.	6.800		.110			3.988		.115		St. E.
	17.565	5.855		3.740		12.136	4.045		3.755	See F.B. 2844-18
										Summation of Run From B.M. 109-11A To B.M. 109-12
										Total Backsights = + 60.647 Total Foresights = − 51.087 Diff. Elev. = + 9.560
										Backsight stadia = 3.740 Foresight Stadia = 3.755 Total Stadia = 7.495 = .47 mi.
		60.647					51.087			F.B. 2845 P.G. 25

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

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 LINE

Chief of Party E. E. Brooks Weather Clear - Wind Inst. No. 15066
Notes by Esquer Time 1:05 - 1:35 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-12 To BM 109-11A
Date 4-4-61
Indexed H. E. OTT

F.B. 2845 P.G. 96

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
1	3908		058		#19	5717		056		BM 109-12.
	3850		058			5661		055		Palmdale Blvd at 150th St. E.
	3792		116			5606		111		See F.B. 2844-18
	11550	3850		116	97°	16984	5661		111	
2	7179		191			3914		171		↑ Barilotti
	6988		190			3743		171		
	6798		381			3572		342		
	20965	6988		497		11229	3743		453	
3	3976		179			5079		185		
	3797		179			4894		185		
	3618		358			4709		370		
	11391	3797		855		14682	4894		823	
4	4038		180			4598		183		
	3858		180			4415		182		
	3678		360			4233		365		
	11574	3858		1215		13246	4415		1188	
5	3311		180			5018		185		
	3131		180			4833		182		
	2951		360			4651		367		
	9393	3131		1575		14502	4834		1555	
		21.624					23.547			

76P526-CE 379—10-57

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

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 LINE

Chief of Party E. E. Brooks Weather Clear-Wind Inst. No. 15066
Notes by Esguer Time 1:05-1:35 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-12 To BM 109-11A
Date 4-4-61
Indexed H. E. On

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
6	2753	21.624	180	1575		5351	23.547	183	1555	
	2573		180			5168		181		
	2393		360			4987		364		
	7719	2573		1935		15506	5169		1919	
7	3220		182			4673		181		
	3038		181			4492		179		
	2857		363			4313		360		
	9115	3038		2298		13478	4493		2279	
8	2833		177			4519		184		
	2656		178			4335		183		
	2478		355			4152		367		
	7967	2656		2654		13006	4335		2646	
9	3723		176			3791		182		
	3547		179			3609		182		
	3368		355			3427		364		
	10638	3546		3009		10827	3609		3010	
10	3889		181			4516		181		
	3708		180			4335		179		
	3528		361			4156		360		
	11125	3708		3370		13007	43369		3370	
		37.145					45.488	X		

F.B. 1965 P.G. 94

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Wind Inst. No. 15066
Notes by Esquer Time 1:05 - 1:35 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-12 To BM 109-11A
Date 4-4-61
Indexed H.E.O.

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	3514	37.145	181	3370		4743	45.482	192	3370	BM 109-11A
	3333		181			4551		194		Palmdale Blvd at 145th St. E.
11	3152		362			4357		386		
	9999	3333		3732		13651	4550		3756	See F.B. 2044-17
										Summation of Run From B.M. 109-12 To B.M. 109-11A
										Total Backsights = + 40.478 Total Foresights = − 50.039 Diff. Elev. = − 9.561
										Backsight stadia = 3,732 Foresight Stadia = 3,756 Total Stadia = 7,488 = .47 mi
		40.478					50.039			

F.B. 2044 P.G. 98

76P526-CE 379—10-57

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

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 LINE

Chief of Party E. E. Brooks Weather Clear Inst. No. 15066
Notes by Esquer Time 11:20 - 11:50 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From B.M. 109-12 To B.M. 109-13A
Date 4-3-61
Indexed H. E. OTT

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	5661		190		#19	4961		184		B.M. 109-12
1	5471		190			4777		184		Palmdale Blvd & 150th St E.
	5281		380			4593		368		
	16413	5471		380	90°	14331	4777		368	F.B. 2844-18
	5451		179			5071		185		
2	5272		179			4886		184		T Barilotti
	5093		358			4702		369		
	15816	5272		738		14659	4886		737	
	5532		183			5051		181		
3	5349		182			4870		179		
	5167		365			4691		360		
	16048	5349		1105		14612	4871		1097	
	5229		184			5132		181		
4	5045		180			4951		180		
	4865		364			4771		361		
	15139	5046		1469		14854	4951		1458	
	5599		180			5150		181		
5	5419		180			4969		179		
	5239		360			4790		360		
	16257	5419		1829		14909	4970		1818	
		26.557					24.455			

F.B. 2845 P.G. 99

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by Esguer Time 11:20-11:50 Rod No. 19-20

Name LA. Co. Precise Level Net
Job No. 0301.02
From BM 109-12 To BM 109-13A
Date 4-3-61
Indexed H. E. On

F.B. 2845 P.G. 100

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
6	5482	26.557	181	1824		4875	24.455	180	1818	
	5301		179			4695		180		
	5122		360			4515		360		
	15905	5302		2189		14085	4695		2178	
7	5659		181			4777		180		
	5478		180			4597		181		
	5298		361			4416		361		
	16435	5478		2550		13790	4597		2539	
8	5593		178			4308		184		
	5415		177			4124		185		
	5238		355			3939		369		
	16246	5415		2905		12371	4124		2908	
9	6224		178			4705		181		
	6046		181			4524		180		
	5865		359			4344		361		
	18135	6045		3264		13573	4524		3269	
10	5712		179			5127		180		
	5533		180			4947		180		
	5353		359			4767		360		
	16598	5533		3623		14841	4947		3629	
		54.330	1				47.842	1		

76P526-CE 379—10-57

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

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 LINE

Chief of Party R. L. Brooks Weather Clear Inst. No. 15066
Notes by Esquer Time 11:20–11:50 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-12 To BM 109-13A
Date 4-3-61
Indexed H. E. OTT

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	5147	59.330	094	3623		4914	47.342	093	3629	BM 109-13A
11	5053		094			4821		092		Palmdale Blvd. 0.45 mi. E.
	4959		188			4729		185		of 150 St. E.
	15159	5053		3.811		14464	4821		3814	See F.B. 2844-19
										Summation of Run
										From B.M. 109-12
										To B.M. 109-13A
										Total Backsights = + 59.383
										Total Foresights = − 52.163
										Diff. Elev. = + 7.220
										Backsight stadia = 3.811
										Foresight Stadia = 3.814
										Total Stadia = 7.625
										= .48 mi.
										F.B. 2845 P.G. 1
		59.383	1				52.163	1		

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by F. E. Brooks Time 11:30 - 11:55 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-13A To BM 109-12
Date 4 April 1961
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
1	4.401		.092		#19	4.634		.095		BM 109-13A
	4.309		.091			4.539		.095		Palmdale Blvd. 0.45 mi
	4.218		.183			4.444		.190		E. of 150 St. E.
	12.928	4.309		.183	90°	13.617	4.539		.190	see F.B. 2844-19
2	4.009		.181			4.591		.178		
	3.828		.180			4.413		.179		T Bar. to Hi
	3.648		.361			4.234		.357		
	11.485	3.828		.544		13.238	4.413		.547	
3	3.754		.181			5.276		.180		
	3.573		.179			5.096		.180		
	3.394		.360			4.916		.360		
	10.721	3.574		.904		15.288	5.096		.907	
4	3.253		.181			4.547		.183		
	3.072		.180			4.364		.181		
	2.892		.361			4.183		.364		
	9.217	3.072		1.265		13.094	4.365		1.271	
5	3.642		.180			4.571		.180		
	3.462		.181			4.351		.183		
	3.281		.361			4.168		.363		
	10.385	3.462		1.626		13.050	4.350		1.634	
		18.245					22.763			

F.B. 2844 PG. 182

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by F. E. Brooks Time 11:30 - 11:55 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-13A To BM 109-12
Date 4 April 1961
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
6	4.036	18.245	.180	1.626		4.643	22.763	.181	1.634	
	3.856		.179			4.462		.180		
	3.677		.359			4.282		.361		
	11.569	3.856		1.985		13.387	4.462		1.995	
7	4.100		.181			4.550		.180		
	3.919		.180			4.370		.180		
	3.739		.361			4.190		.360		
	11.758	3.919		2.346		13.110	4.370		2.355	
8	3.949		.181			4.041		.181		
	3.768		.180			3.860		.181		
	3.588		.361			3.679		.362		
	11.305	3.768		2.707		11.580	3.860		2.717	
9	3.997		.182			4.477		.181		
	3.815		.183			4.296		.183		
	3.632		.365			4.113		.364		
	11.444	3.815		3.072		12.886	4.295		3.081	
10	3.729		.188			4.101		.177		
	3.541		.186			3.924		.174		
	3.355		.374			3.750		.351		
	10.625	3.542		3.446		11.775	3.925		3.432	
		37.145					4[illegible].75			

F.B. 2845 P.G. 103

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15011
Notes by F. E. Brooks Time 11:30 - 11:55 Rod No. 19-20

Name C.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-13A To BM 109-12
Date 4 April 1961
Indexed H. E. On

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	3.978	37.145	.184	3.446		4.676	43.675	.188	3.432	BM 109-12
11	3.794		.182			4.488		.187		Palmdale Blvd. & 150 St. E.
	3.612		.366			4.301		.375		
	11.384	3.795		3.812		13.465	4.488		3.807	See F.B. 2844-18
										Summation of Run From B.M. 109-13A To B.M. 109-12
										Total Backsights = + 40.940 Total Foresights = − 48.163 Diff. Elev. = − 7.223
										Backsight stadia = 3.812 Foresight Stadia = 3.807 Total Stadia = 7.619 =
		40.940					48.163			

F.B. 2845 Pg. 144

76P526-CE 379---10-57

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

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 LINE

Chief of Party E. E. Brooks Weather Clear Inst. No. 15066
Notes by F. E. Brooks Time 11:50 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From B.M.109-13A To B.M.109-13
Date 3 April 1961
Indexed H. E. OTT

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	5.367		.080		#19	4.079		.078		BM 109-13A
	5.287		.079			4.001		.078		Palmdale Blvd & 0.45 mi
	5.208		.159			3.923		.156		E. of 150th St. E.
	15.862	5.287		.159	92°	12.003	4.001		.156	F.B. 2844-19
										BM 109-13
										Palmdale Blvd at 0.45 mi
										E. of 150th St. E.
										see F.B. 2844-19
										T Barlotti
										Summation of Run
										From B.M. 109-13A
										To B.M. 109-13
										Total Backsights = + 5.287
										Total Foresights = − 4.001
										Diff. Elev. = +1.286
										F.B. 2845 P.G. 105
										Backsight stadia = .159
										Foresight Stadia = .156
										Total Stadia = .315
										.02 mi

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by F. E. Brooks Time 11:20 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-13 To BM 109-13A
Date 4 April 1961
Indexed H. E. O.

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	3.410		.079			4.694		.077		BM 109-13
	3.331		.078			4.617		.079		Palmdale Blvd 0.45 mi
	3.253		.157			4.538		.156		E. of 150th St. E
	9.994	3.331		.157		13.849	4.616		.156	See F.B. 2844-19
										BM 109-13 A
										Palmdale Blvd 0.45mi
										E. of 150th St. E.
										See F. B. 2844-19
										π Bailotti
										Summation of Run
										From B.M. 109 - 13
										To B.M. 109 - 13A
										Total Backsights = + 3.331
										Total Foresights = − 4.616
										Diff. Elev. = − 1.285
										Backsight stadia = 0.157
										Foresight Stadia = 0.156
										Total Stadia = 0.313
										= .02 mi
		3.331					4.616			

F.B. 2845 P.G. 106

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by F. E. Brooks Time 1:00 - 1:05 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From B.M.109-13 To B.M.109-13B
Date 3 April 1961
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	4.199		.188		#19	4.731		.180		B.M.109-13
1.	4.011		.189			4.561		.178		Palmdale Blvd & 0.45 mi.
	3.823		.377			4.373		.358		E. of 150th St. E
	12.033	4.011		.377	96°	13.655	4.552		.358	F.B. 2844-19
	4.459		.122			3.699		.120		BM 109-13B
2.	4.337		.123			3.579		.121		Palmdale Blvd 0.45mi.
	4.214		.245			3.458		.241		E. of 150 Th St. E
	13.010	4.337		.622		10.736	3.579		.599	See F.B. 2844-19
										T. Le Gault
										Summation of Run
										From B.M. 109-13
										To B.M. 109-13 & B
										Total Backsights = + 8.348
										Total Foresights = - 8.131
										Diff. Elev. = + 0.217
										Backsight stadia = .622
										Foresight Stadia = .599
										Total Stadia = 1.221
										= .08 mi.
		8.348					8.131			

F.B. 2845 P.G. 1

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by E. E. Brooks Time 11:15 - 11:20 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-13B To BM 109-13
Date 4 April 1961
Indexed E. E. On

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	4.113		.118		#19	4.873		.122		BM 109-13B
	3.995		.118			4.751		.121		Palmdale Blvd 0.45
1	3.877		.236			4.630		.243		mi E. of 150th St. E.
	11.985	3.995		.236	90°	14.254	4.751		.243	See F.B. 2844-19
	4.751		.178			4.220		.192		BM 109-13
	4.573		.175			4.032		.189		Palmdale Blvd 0.45
2	4.398		.353			3.843		.381		mi E. of 150th St. E.
	13.722	4.574		.589		12.095	4.032		.624	See F.B. 2844-19
										X Le Gault
										Summation of Run From B.M. 109-13B To B.M. 109-13
										Total Backsights = + 8.569
										Total Foresights = = 8.783
										Diff. Elev. = - 0.214
F.B. 2845 P.G. 108										Backsight stadia = 0.589
										Foresight Stadia = 0.624
										Total Stadia = 1.213
										= .07 mi
		8.569					8.783			

76P526-CE 379—10-57

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

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 LINE

Chief of Party E. E. Brooks Weather Clear Inst. No. 15066
Notes by E. E. Brooks Time 1:05 - 1:35 Rod No. 19-20

Name T.A. Co. Precise Level Net
Job No. 0301.02
From B.M 109.13B To B.M 109.14
Date 3 April 1961
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B.S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
1	4.951		.189		#19	4.671		.178		B.M 109-13B
	4.762		.187			4.493		.176		Palmdale Blvd 0.45 mi E.
	4.575		.376			4.317		.354		of 150th St. E.
	14.288	4.763		.376	96°	13.481	4.494		.354	See F.B. 2844-19
2	5.577		.178			4.670		.178		
	5.399		.178			4.492		.174		T LeGault
	5.221		.356			4.318		.352		
	16.197	5.399		.732		13.480	4.493		.706	
3	5.233		.174			5.111		.190		
	5.059		.177			4.921		.189		
	4.882		.351			4.732		.379		
	15.174	5.058		.1083		14.764	4.921		.1085	
4	4.531		.182			3.957		.186		
	4.349		.185			3.771		.183		
	4.164		.367			3.588		.369		
	13.044	4.348		.1450		11.316	3.772		.1454	
5	4.789		.186			4.688		.187		
	4.603		.183			4.501		.183		
	4.420		.369			4.318		.370		
	13.812	4.604		.1819		13.507	4.502		.1824	
		24.172					22.182			

F.B. 2845 P.G. 109

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

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 LINE

Chief of Party E. E. Brooks Weather Clear Inst. No. 15066
Notes by F. E. Brooks Time 1:05 - 1:35 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-13B To BM 109-14
Date 3 April 1961
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
6	4.610	24.172	.184	1.819		4.261	22.182	.180	1.824	
	4.426		.184			4.081		.180		
	4.242		.368			3.901		.360		Summation of Run
	13.278	4.426		2.187		12.243	4.081		2.184	From B.M. 109-13A
7	4.660		.179			4.631		.180		To B.M. 109-14
	4.481		.179			4.451		.180		
	4.302		.358			4.271		.360		Total Backsights = + 46.624
	13.443	4.481		2.545		13.353	4.451		2.544	Total Foresights = - 44.702
										Diff. Elev. = + 1.922
8	4.071		.186			4.189		.185		
	3.885		.185			4.004		.184		Backsight stadia = 3.389
	3.700		.371			3.820		.369		Foresight Stadia = 3.364
	11.656	3.885		2.916		12.013	4.004		2.913	Total Stadia = 6.753
										= .43 m.
9	4.777		.180			4.861		.180		
	4.597		.180			4.681		.180		
	4.417		.360			4.501		.360		
	13.791	4.597		3.276		14.043	4.681		3.273	
10	5.120		.057			5.359		.057		BM 109-14
	5.063		.056			5.302		.054		Palmdale Blvd at 160 Th St E
	5.007		.113			5.248		.111		
	15.190	5.063		3.389		15.909	5.303		3.384	See F.B. 2844-20
		46.624					44.702			

F.B. 2845 PG. 110

76P526-CE 379—10-57

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

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 LINE

Chief of Party E. E. Brooks Weather Clear Inst. No. 15066
Notes by Esquer Time 10:45 - 11:15 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-14 To BM 109-13 B
Date 4-4-61
Indexed H. E. On

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
1	5178		056		#19	4940		057		BM 109-14
	5122		056			4883		057		Palmdale Blvd. at 160th
	5066		112			4826		114		St. E.
	15366	5122		112	90°	14649	4883		114	See F.B. 2844-20
2	4727		184			4638		179		T LeGault
	4543		180			4459		178		
	4363		364			4281		357		
	13633	4544		476		13378	4459		471	
3	4307		188			4186		185		
	4119		187			4001		184		
	3932		375			3817		369		
	12358	4119		851		12004	4001		840	
4	4560		180			4589		178		
	4380		180			4411		179		
	4200		360			4232		357		
	13140	4380		1211		13232	4411		1197	
5	4242		180			4590		183		
	4062		181			4407		183		
	3881		361			4224		366		
	12185	4062		1572		13221	4407		1563	
		22.227					22.161			

F.B. 1945 P.G. 111

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No 15066
Notes by Esquer Time 10:45-11:15 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-14 To BM 109-13B
Date 4-4-61
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	4451	22.227	183	1572		4551	22.161	183	1563	
	4268		187			4368		184		
6	4081		370			4184		367		Summation of Run
	12800	4267		1942		13103	4368		1930	From B.M. 109-14
	3783		183			4362		184		To B.M. 109-13B
	3600		182			4178		183		
7	3418		365			3995		367		Total Backsights = + 42.218
	10801	3600		2307		12535	4178		2297	Total Foresights = − 44.145
	4371		184			4501		181		Diff. Elev. = − 1.927 ✓
	4187		185			4321		181		
8	4002		369			4140		362		Backsight stadia = 3.383
	12560	4187		2676		12962	4321		2659	Foresight Stadia = 3.392
	3928		180			4833		175		Total Stadia = 6.775
	3748		177			4658		178		
9	3571		357			4480		353		= .43 mi
	11247	3749		3033		13971	4657		3012	
	4363		175			4651		192		
	4188		175			4459		188		
10	4013		350			4271		380		BM 109-13B
	12564	4188		3383		13381	4460		3392	Palmdale Blvd 0.45 mi
		42.218 ✓					44.145 ✓			E. of 150th St. E.
										See F.B. 2844-19

F.B. 2845 P.G. 112

76P526-CE 379—10-57

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

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 LINE

Chief of Party E. E. Brooks Weather Overcast Inst. No. 15066
Notes by Esquer Time 1:00- Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-14 To BM 109-14A
Date 4-5-68
Indexed B.E.On

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	5348		169		#19	5925		173		BM 109-14
1	5179		170			5752		170		Palmdale Blvd. E/160 St. E.
	5089		339			5582		343		See F.B. 2844-20
	15536	5.179		.339		17259	5.753		.343	
										BM 109-14A
										Palmdale Blvd. E/160 St. E.
										See F.B. 2844-20
										T. Rodriguez
										Summation of Run
										From B.M. 109-14
										To B.M. 109-14A
										Total Backsights = + 5.179
										Total Foresights = - 5.753
										Diff. Elev. = - 0.574
										Backsight stadia = 0.339
										Foresight Stadia = 0.343
										Total Stadia = 0.682
		5.179					5.753			= .042 mi

F.B. 2844 P.G. 117

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

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

- 0.594

DO NOT EXTEND NOTES THIS SIDE OF LINE

Chief of Party ..... Weather Clear - Windy Inst. No. 15066
Notes by ..... Time 1:35 Rod No. 19-20

L.A. Co. Precise Level Net
Name .....
Job No. 0301.02
From BM 109-14A To BM 109-14
Date 6 April 1921
Indexed H. E. OTT

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	5.175		.170		#19	4.595		.163		BM 109-14A
1	5.005		.172			4.432		.167		Palmdale Blvd & 160 St. E.
	4.833	1				4.265		.330		See F.B. 2844-20
	15.013	5.004		.342	72°	13.292	4.431		.330	
										BM 109-14
										Palmdale Blvd. & 160 St. E.
										See F.B. 2844-20
										T Rodriguez
										Summation of Run
										From B.M. 109-14A
										To B.M. 109-14
										Total Backsights = + 5.004
										Total Foresights = — 4.431
										Diff. Elev. = + 0.573
										Backsight stadia = .342
										Foresight Stadia = .330
										Total Stadia = .672
										= .04 mi.

F.B. 2845 P.G. 114

76P526-CE 379—10-57

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

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 LINE

Chief of Party E. E. Brooks Weather Overcast Inst. No. 15066
Notes by Esquer Time 1:10 - 1:45 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-14A To BM 109-15A
Date 4-5-61
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
1	6488		186		#19	4192		180		BM 109-14A
	6302		189			4012		180		Palmdale Blvd. & 16o St. E.
	6113		375			3832		360		
	18903	6301		375	82°	12036	4012		360	See F.B. 2844-20
2	5206		177			4332		177		
	5029		178			4155		176		↑ Rodriguez
	4851		355			3979		353		
	15086	5029		730		12466	4155		713	
3	4499		176			4032		177		
	4323		178			3855		178		
	4145		354			3677		355		
	12967	4322		1084		11564	3855		1068	
4	4347		178			4207		182		
	4169		174			4025		182		
	3995		352			3843		364		
	12511	4170		1436		12075	4025		1432	
5	4249		180			3887		182		
	4069		180			3705		180		
	3889		360			3525		362		
	12207	4069		1796		11117	3706		1794	
		23.891					19.753			

F.B. 2845 P.G. 1/15

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

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 LINE

Chief of Party E. E. Brooks Weather Overcast Inst. No. 15066
Notes by Esquer Time 1:10-1:45 Rod No.

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-14A To BM 109-15A
Date 4-5-61
Indexed H.E.OTT

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
6	3869	23.891	178	1796		4049	19.753	180	1794	
	3691		178			3869		180		
	3513		356			3689		360		
	11073	3691		2152		11607	3869		2154	
7	4452		180			3795		180		
	4272		180			3615		177		
	4092		360			3438		357		
	12816	4272		2512		10848	3616		2511	
8	4802		180			3769		177		
	4622		177			3592		180		
	4445		357			3412		357		
	13869	4623		2869		10773	3591		2866	
9	3867		180			4185		180		
	3687		180			4005		180		
	3507		360			3825		360		
	11061	3687		3229		12015	4005		3226	
10	3993		184			5053		184		
	3809		180			4869		182		
	3629		364			4687		366		
	11431	3810		3593		14609	4870		3592	
		43.974					39.704			

F.B. 2945 PG. 116

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Overcast Inst. No. 15066
Notes by Esquer Time 1:10 - 1:45 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-14A To BM 109-15A
Date 4-5-61
Indexed H.E.Q.

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B.S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	4239	43.974	157	3593		4529	39704	164	3592	BM 109-15A
11	4082		157			4365		163		Palmdale Blvd. & 165 St. E.
	3925		314			4202		327		on No. Side
	12246	4082		3907		13096	4365		3919	See F.B. 2844-21
										Summation of Run
										From B.M. 109-14A
										To B.M. 109-15A
										Total Backsights = + 48.056
										Total Foresights = − 44.069
										Diff. Elev. = + 3.987
										Backsight stadia = 3.907
										Foresight Stadia = 3.919
										Total Stadia = 7.826
										= .50 mi
		48.056					44.069			

F.B. 2845 P.G. 117

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by F. E. Brooks Time 1:00 - 1:35 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-14A To BM 109-14A
Date 6 March 1961
Indexed

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
1	3.985		.160		#19	3.703		.160		BM 109-15A
	3.825		.158			3.543		.160		Palmdale Blvd. / 165th St. E
	3.667		.318			3.383		.720		on No. Side
	11.477	3.826		.318	72°	10.629	3.543		.320	See F.B. 2844-21
2	4.669		.181			3.608		.183		
	4.488		.185			3.425		.180		T Rodriguez
	4.303		.366			3.245		.363		
	13.460	4.487		.684		10.278	3.426		.683	
3	4.062		.180			3.942		.180		
	3.882		.181			3.562		.180		
	3.701		361			3.382		.360		
	11.645	3.882		.1045		10.686	3.562		.1043	
4	3.203		.178			4.233		.180		
	3.025		.177			4.053		.178		
	2.848		.355			3.875		.358		
	9.076	3.025		.1400		12.161	4.054		.1401	
5	3.502		.180			4.162		.180		
	3.322		.179			3.982		.180		
	3.143		.359			3.802		.360		
	9.967	3.322		.1759		11.946	3.982		.1761	
		10.542					10.567			

F.B. 2845 P.G. 116

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by F. E. Brooks Time 1:00 - 1:35 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-15A To BM 109-14A
Date 6 April 1961
Indexed H. E. OTT

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
6	3.603	18.542	.178	1.759		3.423	18.567	.180	1.761	
	3.425		.180			3.243		.180		
	3.245		.358			3.063		.360		
	10.273	3.424		2.117		9.729	3.243		2.121	
7	3.825		.182			4.192		.180		
	3.643		.181			4.012		.180		
	3.462		.363			3.832		.360		
	10.930	3.643		2.480		12.036	4.012		2.481	
8	4.163		.180			4.303		.178		
	3.983		.180			4.125		.177		
	3.803		.360			3.948		.355		
	11.949	3.983		2.840		12.376	4.125		2.836	
9	3.789		.174			4.263		.178		
	3.615		.178			4.085		.176		
	3.437		.352			3.909		.354		
	10.841	3.614		3.192		12.257	4.086		3.190	
10	3.949		.174			4.825		.180		
	3.775		.176			4.645		.180		
	3.599		.350			4.465		.360		
	11.323	3.774		3.542		13.935	4.645		3.550	
		36.980					38.678			

F.B. 1345 P.G. 119

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by F. E. Brooks Time 1:00 - 1:35 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-15A To BM 109-14A
Date 6 April 1961
Indexed H. E. On

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	4.175	36.980	.180	3.542		6.468	30.678	.183	3.650	BM 109-14A
11	3.995		.182			6.285		.186		Palmdale Blvd. & 160 St. E.
	3.913		.362			6.099		.369		
	11.983	3.994		3.904		18.852	6.284		3.919	See F.B. 2844-20
										Summation of Run
										From B.M. 109-15A
										To B.M. 109-14A
										Total Backsights = + 40.974
										Total Foresights = − 44.962
										Diff. Elev. = − 3.988
										Backsight stadia = 3.904
										Foresight Stadia = 3.919
										Total Stadia = 7.823
										= .50 mi.
		40.974					44.962			

F.B. 2845 PG. 100

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Overcast Inst. No. V5066
Notes by F. E. Brooks Time 1:45- Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 03.01.02
From BM 109-15A To BM 109-15
Date 5 April 1961
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	4.723		.090		#19	3.387		.088		BM 109-15A
1	4.633		.090			3.299		.087		Palmdale Blvd. @ 165 St. E.
	4.543		.180			3.212		.175		N. side
	13.899	4.633		.180	82°	9.898	3.299		.175	See F.B. 2844-21
										BM 109-15
										Palmdale Blvd at 165th St. E.
										See F.B. 2844-21
										T Rodriguez
										Summation of Run
										From B.M. ~~109-15A~~
										To B.M. ~~109-15~~
										Total Backsights = + 4.633
										Total Foresights = − 3.299
										Diff. Elev. = +1.334
										Backsight stadia = .180
										Foresight Stadia = .175
										Total Stadia = .355
										= .02 mi.

F.B. 2845 P.G. 121

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

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 LINE

Chief of Party F. E. Brooks Weather Clear-Windy Inst. No. 15066
Notes by F. E. Brooks Time 11:50 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-15 To BM 109-15A
Date 2 April 1961
Indexed H. E. OD

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	3.312		.087		#19	4.649		.088		BM 109-15
	3.225		.087			4.521		.090		Palmdale Blvd at 165 Th St. E.
	3.138		.174			4.471		.178		
	9.675	3.225		.174	68°	13.641	4.560		178	See F.B. 2844-21
										BM 109-15A Palmdale Blvd at 165 Th St. E.
										See F.B. 2844-21
										T Rodriguez
										Summation of Run From B.M. 109-15 To B.M. 109-15-A
										Total Backsights = + 3.225 Total Foresights = − 4.560 Diff. Elev. = − 1.335
										Backsight stadia = .174 Foresight Stadia = .178 Total Stadia = .352 = .02 mi.

F.B. 0946 P.G. 122

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Overcast Inst. No. 15066
Notes by F. E. Brooks Time 1:50 - Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-15 To BM 109-16
Date 5 April 1961
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
1	4.039		.112		#19	3.976		.110		BM 109-15
	3.925		.114			3.868		.110		Palmdale Blvd. & 165 St. E.
	3.811		.226			3.758		.220		S.E. corner
	11.793	3.924		.226	82°	11.604	3.868		.220	See F.B. 2844-21
2	5.505		.183			3.615		.183		
	5.322		.183			3.432		.183		T Rodriguez
	5.139		.366			3.249		.366		
	15.966	5.322		.592		10.296	3.432		.586	
3	6.029		.181			3.279		.182		
	5.848		.183			3.097		.185		
	5.665		.364			2.912		.367		
	17.542	5.847		.956		9.288	3.096		.953	
4	6.162		.183			3.885		.180		
	5.979		.180			3.705		.180		
	5.799		.363			3.525		.360		
	17.940	5.980		1.719		11.115	3.705		1.713	
5	5.159		.182			3.513		.184		
	4.977		.185			3.329		.182		
	4.792		.367			3.147		.366		
	14.928	4.976		1.686		9.989	3.330		1.679	
		26.049					17.431			

F.B. 2844, P.G. 17

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

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 LINE

Chief of Party F. E. Brooks Weather overcast Inst. No. 15066
Notes by F. E. Brooks Time 1:50 - Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-15 To BM 109-16
Date 5 April 1961
Indexed H. E. OH

F.B. 2945 P.G. 124

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
6	5.882	26.049	.183	1.686		3.799	17.431	.184	1.679	
	5.699		.187			3.615		.180		
	5.512		.370			3.435		.364		
	17.093	5.698		2.056		10.849	3.616		1.043	
7	5.725		.183			3.429		.184		
	5.542		.184			3.245		.183		
	5.358		.367			3.062		.367		
	16.625	5.542		2.423		9.936	3.245		2.410	
8	5.449		.181			3.908		.189		
	5.268		.179			3.719		.187		
	5.089		.360			3.532		.376		
	15.806	5.269		2.783		11.159	3.720		2.786	
9	5.572		.184			3.512		.184		
	5.388		.186			3.328		.185		
	5.202		.370			3.143		.369		
	16.162	5.387		3.153		9.983	3.328		3.156	
10	5.492		.183			3.582		180		
	5.309		.184			3.402		.180		
	5.125		.367			3.222		.360		
	15.926	5.309		3.520		10.206	3.402		3.515	
		53.254					34.742			

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Overcast Inst. No. 15066
Notes by F. E. Brooks Time 1:56 - 2:15 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-15 To BM 109-16
Date 5 April 1961
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
11	5.579	53.254	.181	3.520		4.141	34.742	.182	3.515	
	5.398		.185			3.959		.186		
	5.213		.366			3.773		.368		
	16.190	5.397		3.886		11.873	3.958		3.883	
12	5.712		.694			4.099		.100		BM 109-16
	5.618		.095			3.999		.100		165th St. E. at Ave R.
	5.523		.189			3.899		.200		
	16.853	5.618		4.075		11.997	3.999		4.083	see F.B. 2844-22
										Summation of Run
										From B.M. 109-15
										To B.M. 109-16
										Total Backsights = + 64.269 ✓
										Total Foresights = − 42.699
										Diff. Elev. = + 21.570 ✓
										Backsight stadia = 4.075
										Foresight Stadia = 4.083
										Total Stadia = 8.158
										= .52 mi.
		64.269 ✓					42.699			

F.B. 2845 P.G. 1251

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

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 LINE

Chief of Party F. E. Brooks Weather Sunny & Windy Inst. No. 15066
Notes by Le Gault Time 11:00 to 11:50 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-16 To BM 109-15
Date 4/6/61
Indexed H. E. OTT

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
1	4062 3962 3862 11886	3962	100 100 200	200	66°	5674 5579 5485 16738	5579	095 094	189	BM 109-16 165th St. E. at Ave R See F.B. 2844-22
2	4127 3945 3759 11831	3944	182 186 368	568		5562 5382 5202 16146	5382	180 180 360	549	T Rodiguez
3	3439 3255 3072 9766	3255	184 183 367	936		5348 5163 4982 15493	5164	185 181 366	915	
4	3535 3352 3168 10055	3352	183 184 367	1303		5597 5411 5225 16233	5411	186 186 372	1284	
5	3795 3611 3425 10831	3610	184 186 370	1673		5342 5159 4975 15476	5159	183 184 367	1654	
		18123					26695			

F.B. 2845 P.G. 126

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Sunny & Windy Inst. No. 15066
Notes by L.C. GAULT Time 11:00 - 11:50 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-L To BM 109-13
Date 4/6/61
Indexed H. E. on

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean 18123	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean 26695	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	3505		184	1673		5802		187	1654	
	3321		182			5615		184		
6	3139		366			5431		371		
	9963	3322		2039		16848	5616		2023	
	3762		180			5848		183		
	3582		180			5665		184		
7	3402		360			5481		367		
	10746	3582		2399		16994	5665		2392	
	3464		183			5141		186		
	3311		184			4955		182		
8	3127		367			4773		368		
	9932	3311		2766		14869	4956		2760	
	3762		180			6035		180		
	3582		180			5855		180		
9	3402		360			5675		360		
	10746	3582		3126		17565	5855		3120	
	3702		183			5855		184		
	3519		180			5671		183		
10	3339		363			5488		367		
	10770	2920		3489		17014	5671		3487	
		34840					54458			

F.B. 2345 P.G. 127

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

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 LINE

Chief of Party F. E. Brooks — Weather Sunny, Windy — Inst. No. 15066
Notes by L.E. Coult — Time 11:00 - 11:50 — Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-16 To BM 109-15
Date 4/6/61
Indexed H. E. OH

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	3443	34840	186	3489		5329	54458	181	3487	
	3257		182			5148		183		
11	3075		368			4965		364		
	9775	32 58		3857		15442	5147		3851	
	3939		110			3999		111		BM 109-15
	3829		108			3888		115		Palmdale Blvd at 115th St. E
12	3721		218			3773		226		See F.B. 2844-21
	11489	3830		4075		11660	3887		4077	
										Summation of Run From B.M. 109-16 To B.M. 109-15
										Total Backsights = + 41928 Total Foresights = − 63492 Diff. Elev. = − 21564
										Backsight stadia = 4077 Foresight Stadia = 4077 Total Stadia = 8154 = .52 mi
		41928					63492			

F.B. 2846 P.G. 123

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear & Windy Inst. No. 15066
Notes by J. C. Gault Time 9:30 / 11:30 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-16 To BM 109-17
Date 4/6/61
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	4573		190		64°	3757		187		BM 109-16
	4383		194			3570		183		165 St. E. of Ave. R.
1	4189					3387				
	13145	4382		384		10714	3571		370	See F.B. 2844-22
	5313		184			3068		180		
	5129		181			2888		180		T Equiv
2	4948		365			2708		360		
	15390	5130		749		8664	2888		730	
	4721		184			4282		184		
	4537		180			4098		186		
3	4357		364			3912		370		
	13615	4538		1113		12292	4097		1100	
	5408		183			3092		184		
	5225		184			2908		183		
4	5041		367			2725		367		
	15674	5225		1480		8723	2908		1467	
	5392		182			3161		183		
	5210		182			2978		187		
5	5028		364			2791		370		
	15630	5210		1844		8930	2977		1237	
	24485					16441				

F.B. 2845 P.G. 129

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

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 LINE

Chief of Party F F Brooks Weather Clear-Windy Inst. No. 15066
Notes by Leggett Time 9:30-10:30 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 630102
From BM 109-15 To BM 109-17
Date 4/16/61
Indexed H. E. OT

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	24485					16441				
6	5338		184	1844		3180		186	1837	
	5154		184			2994		184		
	4970		368			2810		370		
	15462	5154		2212		9984	2995		2207	
7	5320		185			2998		185		
	5136		185			2743		182		
	4950		370			2561		367		
	15405	5135		2582		8232	2744		2574	
8	5462		184			3250		180		
	5278		187			3070		180		
	5091		371			2890		360		
	15831	5277		2953		9210	3070		2934	
9	5476		180			3148		187		
	5295		180			2961		186		
	5115		360			2775		373		
	15885	5295		3313		8884	2961		3307	
10	5401		181			3294		184		
	5220		180			3110		180		
	5040		361			2930		364		
	15661	5220		3674		9334	3111		3671	
		59566					21322			

F.B. 5285 P.G. 130

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear & Windy Inst. No. L5066
Notes by L. E. Hallet Time 9:30 - 10:20 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 630102
From BM 109-16 To BM 109-17
Date 4/16/61
Indexed H. E. Orr

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean 50566	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean 31322	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
11	5627		184	3674		3504		181	3671	
	5443		183			3323		182		
	5260		367			3141		363		
	10330	5443		4041		9968	3323		4034	
12	5528		103			4221		101		BM 109-17
	5425		104			4120		105		165 Th St. E. 1.0 mile S.
	5321		207			4015		206		of Palmdale Blvd
	16274	5425		4248		12356	4119		4240	See F.B. 2844-23
13	5357		115			2688		119		
	5239		117			2569		119		Summation of Run
	5122		232			2450		238		From BM 109-16
	15718	5239		4680		7707	2569		4678	to BM 109-17
										Total Backsights = + 66673
										Total Foresights = − 41333
										Diff Elev = + 25340
										Backsight stadia = 4680
										Foresight Stadia = 4768
										Total Stadia = 9448
		66673					41333			= .60 mi

F.B. 2844 P.G. 13

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by Time 1:35 – 2:15 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301-02
From BM 109-17 To BM 109-16
Date 4/16/61
Indexed R.E. on

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
1	2.544		.119		#19	5.215		.116		BM 109-17
	2.425		.117			5.099		.117		165th St. E 1.0 mile S.
	2.308		.236			4.982		.233		of Palmdale Blvd.
	7.277	2.426		.236	80°	15.296	5.099		.233	See F.B. 2844-23
2	3.952		.102			5.260		.105		
	3.850		.102			5.155		.105		⊼ Esquer
	3.748		.204			5.050		.210		
	11.550	3.850		.440		15.465	5.155		.443	
3	3.567		.182			5.689		.184		
	3.385		.180			5.505		.182		
	3.205		.362			5.323		.366		
	10.157	3.386		.802		16.517	5.506		.809	
4	3.231		.182			5.344		.184		
	3.049		.181			5.160		.180		
	2.868		.363			4.975		.364		
	9.148	3.049		1.165		15.479	5.160		1.173	
5	3.308		.183			5.645		.184		
	3.125		.182			5.461		.186		
	2.943		.365			5.275		.370		
	9.376	3.125		1.530		16.381	5.460		1.543	
		15.836					26.380			

F.B. 2845 P.G. 132

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear — Inst. No. L5066
Notes by Time 1:35 – 2:15 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 939/02
From BM 109-17 To BM 149-16
Date 11 Apr. 1961
Indexed H. E. OD

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	3.295	16.836	.186	1.530		5.495	26.380	.180	1.547	
	3.109		.184			5.315		.180		
6	2.925		.370			5.135		.360		
	9.329	3.110		1.900		15.945	5.315		1.903	
	3.359		.184			5.748		.183		
	3.175		.186			5.565		.182		
7	1.989		.370			5.383		.365		
	9.523	3.174		2.270		16.696	5.565		2.268	
	3.235		.186			5.391		.182		
	3.049		.184			5.209		.182		
8	2.865		.370			5.027		.364		
	9.149	3.050		2.640		15.627	5.209		2.632	
	3.289		.184			5.522		.182		
	3.105		.184			5.340		180		
9	2.921		368			5.160		.362		
	9.315	3.105		3.008		16.022	5.341		2.994	
	3.608		.185			5.921		.186		
	3.423		.181			5.735		.184		
10	3.242		.366			5.551		.370		
	10.273	3.424		3.374		17.207	5.736		3.364	
		31.699					53.546			

F.B. 2965 P.G. 133

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by Time 1:35 - 2:15 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 030102
From BM 109-17 To BM 109-16
Date 10 April 1961
Indexed H. E. ON

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	3.350	31.699	.181	3.374		5.862	53.546	.187	3.364	
	3.169		.181			5.675		.186		
	2.988		.362			5.489		.373		
11	9.507	3.169		3736		17.026	5.675		3.737	
	3.609		.180			5.851		.182		BM 109-16
	3.429		.180			6.669		.181		165 Ft St. E. of Ave R.
	3.249		.360			5.488		.363		See F.B. 0844-22
12	10.287	3.429		4096		17.008	5.669		4.100	
	3.869		.186			4.691		.196		Summation of Run
	3.683		.184			4.495		.194		From B.M. 109-17
	3.499		.370			4.301		.390		To B.M. 109-16
13	11.051	3.684		4.466		13.487	4.496		4.490	
										Total Backsights = + 41.981
										Total Foresights = — 69.386
										Diff. Elev. = - 27.405
										Total-Backsights = + 4.466
										Total Foresights = — 4.490
										Diff. Elev. = 0.956
		41.981					69.386			

F.B. 2845 PG. 134

76P526B CE # 308 8-59

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET
SURVEY BY Geo. Zado WEATHER Sunny Wind INST. No. 0252
NOTES BY G.E. Gobin DATE 5-8-61 TIME 12:45-1:15 ROD NO. 95-9
INDEXED M.E.M. DATE NOTES CHKD DATE
F.B. 2845 Pg. 25

STATION	BACKSIGHT					FORESIGHT					DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA	RIGHT	MIC.	LEFT		STADIA	FROM BM 109-16 TO BM 109-17
BM 109-16											BM 109-16. FB 2844-22
1	168	175	469	5	196 / 140 56	098	287	399	5	125 / 70 55	165th St. E & Ave R
2	207	280	508	5	234 / 179 55	093	823	394	5	120 / 65 55	
3	194	732	445	5	221 / 166 55	096	328	397	5	123 / 68 55	
4	197	823	498	5	225 / 170 55	100	463	401	5	127 / 72 55	
5	206	252	507	5	234 / 178 56	092	460	393	5	120 / 64 56	
6	190	827	491	5	218 / 162 56	089	626	390	5	117 / 61 56	A.L. Goble
7	192	797	493	5	220 / 164 56	098	350	399	5	126 / 70 56	
8	173	392	474	5	188 / 157 31	115	733	416	5	131 / 100 31	
9	179	495	480	5	194 / 164 30 / 150	090	749	391	5	105 / 75 30 / 119 / 150	
Total	1710	773	/			875	819			899 METERS	
Dif in Elev	875	819									
BM 109-17	834	954	/								

BM 109-17 - FB 2844-23
1.0 Mi So. Palmdale Blvd.
165th St. E.

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM 109-17 TO BM 109-16
BM 109-17													BM 109-17
1	091	635	392	5	105 / 76	29	179	758	480	5	193 / 164	29	
2	119	112	420	5	134 / 103	31	177	620	478	5	192 / 161	31	
3	104	765	405	5	137 / 76	56	198	556	499	5	226 / 170	56	
4	088	940	389	5	116 / 60	56	190	738	491	5	218 / 162	56	
5	089	538	390	5	117 / 61	56	201	962	502	5	229 / 173	56	⊼ A.L. Goble
6	098	295	399	5	126 / 70	56	197	762	498	5	225 / 169	56	
7	101	719	402	5	128 / 73	55	200	307	501	5	227 / 172	55	
8	094	141	395	5	121 / 66	55	206	293	507	5	233 / 178	55	
9	092	835	393	5	119 / 64	55	162	770	463	5	190 / 134	56	
						449						450	
Total	880	980					1715	766	/			449	METERS
Diff in							880	980				899	
Elev							834	786	/				

F.B. 2845 PG. 136 JOB NO. 0301.02

SURVEY OF L. A. CO. PRECISE LEVEL NET

SURVEY BY ACG NOTES GEC

INDEXED # 6 DATE

WEATHER

TIME 7:30 3:00

NOTES CHKD

INST. NO. N3 7523K

ROD NO. 9596

DATE

76P526-CE 379---10-57

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

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 LINE

Chief of Party E. E. Brooks — Weather Clear - Windy — Inst. No. 15066
Notes by F. E. Brooks — Time 10:20 - 11:00 — Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-17 To BM 109-18
Date 6 April 1961
Indexed H. E. On

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	4.094		.145		#19	3.291		.148		BM 109-17
	3.949		.146			3.149		.148		165 St. E., 1 mile So. Palm-
1	3.803		.291			3.001		.296		dale Blvd.
	11.846	3.949		291	68°	9.441	3.149		.296	See F.B. 2841-23
	5.495		.184			3.387		.182		
	5.311		.183			3.205		.182		T Barlotti
2	5.128		.367			3.023		.364		
	15.934	5.311		.658		9.615	3.205		.660	
	5.492		.180			3.560		.183		
	6.312		.180			3.377		.183		
3	5.132		.360			3.194		.366		
	15.936	5.312		1018		10.131	3.377		1026	
	5.468		.181			3.221		.184		
	5.287		.183			3.037		.184		
4	5.104		.364			2.853		.368		
	15.859	5.286		1382		9.111	3.037		1394	
	5.945		.185			3.258		.180		
	5.760		.185			3.078		.181		
5	5.575		.370			2.897		.361		
	17.280	5.760		1752		9.233	3.078		1755	
		25.618					15.846			

F.B. 2845 P.G. 137

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

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 LINE

Chief of Party F. E. Brooks Weather Clear-Windy Inst. No. 15066
Notes by F. E. Brooks Time 10:30 - 11:00 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-17 To BM 109-18
Date 6 April 1961
Indexed H. E. OTT

F.B. 2845 P.G. 138

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
6	5.432	25.618	.181	1.752		3.204	15.846	.185	1.755	
	5.251		.183			3.019		.183		
	5.068		.364			2.836		.368		
	15751	5.250		2.116		9.059	3.020		2173	
7	5.571		.185			3.124		.182		
	5.386		.186			2.942		.181		
	5.200		371			2.761		.363		
	16.157	5.386		2487		8.827	2.942		2486	
8	5.583		183			3.399		.186		
	5400		.183			3.213		.184		
	5.217		.366			3.029		.370		
	16.200	5.400		2.853		9.641	3.214		2.856	
9	5.958		.186			3.023		.185		
	5.772		.185			2.838		.185		
	5.587		.371			2.653		.370		
	17.317	5.772		3.224		8.514	2.838		3226	
10	5.177		.187			3.242		.185		
	4.990		.184			3.057		.184		
	4.806		.371			2.873		.369		
	14.973	4.991		3.595		9.172	3.057		3.595	
		52.417					30.917			

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brook. Weather Clear- Windy Inst. No. 15066
Notes by F. E. Brooks Time 10:30- 11:00 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-17 To BM 109-18
Date 6 April 1961
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	4.580	52.417	.079	3.595		2.801	30.917	.074	3.595	BM 109-18
	4.501		.079			2.727		.076		165th St. E. at Ave S.
11	4.422		.158			2.651		.150		See F.B. 2844-24
	13.503	4.501		7.753		8.179	2.726		3.745	
										Summation of Run
										From B.M. 109-17
										To B.M. 109-18
										Total Backsights = + 56.918
										Total Foresights = — 33.643
										Diff. Elev. = + 23.275
										Backsight stadia = 3.753
										Foresight Stadia = 3.745
										Total Stadia = 7.498
										= .47mi
		56.918					33.643			

F.B. 2845 P.G. 139

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by LeCault Time 1:00 : 130 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-18 To BM 109-17
Date 4/11/61 H. E. OTT
Indexed

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
1	2880		077			4659		079		BM 109-18
	2803		074			4580		079		165th St. E. at Ave S.
	2729		151			4501		158		See F.B. 2844-24
	8412	2803				13740	4580			
2	3397		184			5328		185		π Bail Lott
	3213		185			5143		183		
	3028		369			4960		368		
	9638	3213		520		15431	5144		526	
3	3158		186			6091		185		
	2972		185			5906		186		
	2787		371			5720		371		
	8917	2972		891		17717	5906		897	
4	3608		186			5793		185		
	3422		185			5608		181		
	3237		371			5427		366		
	10267	3422		1262		16828	5609		1263	
5	3288		185			5732		184		
	3103		182			5548		187		
	2921		367			5361		371		
	9317	3104		1629		16641	5547		1634	
		15514					26786			

F.B. 2845 P.G. 140

76P526-CE 379—10-57

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

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 LINE

Chief of Party Lovell F. E. Brooks A.I. Weather Clear Inst. No. 15066
Notes by L. L. Baker Time 1:00 - 1:30 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-18 To BM 109-17
Date 4/11/61
Indexed H. E. OD

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	3330		184	1629	80°	5558		182	1634	
	3146		186			5376		184		
6	2960		390			5192		366		
	9436	3145		1999		16126	5375		2000	
	3332		184			6016		184		
	3148		183			5832		182		
7	2965		367			5650		366		
	9445	3148		2366		17498	5833		2366	
	3480		184			5727		183		
	3296		183			5544		183		
8	3113		367			5362		366		
	9889	3296		2733		16633	5544		2732	
	3767		184			5699		179		
	3583		182			5520		179		
9	3401		366			5341		358		
	10751	3584		3099		16560	5520		3090	
	3538		181			5647		184		
	3357		179			5463		183		
10	3178		360			5280		367		
	10073	3358		3459		16390	5463		3457	
	32046					54521				

F.B. 2845 P.G. 141

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by Le Gault Time 1:00-1:30 Rod No. 19-20

Name L.A. Co. Precise Level Nell
Job No. 030/.02
From BM 109-18 To BM 109-17
Date 4/11/61
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean 32045	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean 54521	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	4070		146	3459		4873		149	3457	BM 109-17
	3924		146			4724		146		165th St. E. 1 mile S.
11	3778		392			4578		395		of Palmdale Blvd.
	11772	3924		3841		14175	4725		3852	See F.B. 2844-23
		35969					59246			

Summation of Run
From B.M. 109-18
To B.M. 109-17

Total Backsights = + 35969
Total Foresights = − 59246
Diff. Elev. = − 23277

Backsight stadia = 3841
Foresight Stadia = 3852
Total Stadia = 7693
= .49 mi.

F.B. 2845 P.G. 142

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather CLEAR Inst. No. 15066
Notes by LC GAULT Time 9:30 - 10:15 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-18 To BM 109-19
Date 4/10/66
Indexed H. E. OTT

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	3815		075		62°	2341		079		BM 109-18
	3740		076			2262		078		165 St. E. of Ave S.
1	3664		151			2184		157		
	12219	3740		151		6787	2262		157	See F. B. 2844-24
	5832		183			3280		182		
	5649		183			3098		185		T BAR 1 off
2	5466		364			2913		367		
	16947	5649		515		9291	3097		524	
	5884		184			3657		184		
	5700		183			3473		183		
3	5517		367			3290		364		
	17101	5700		882		10420	3473		891	
	5722		185			3237		180		
	5537		181			3057		180		
4	5396		366			2877		360		
	16735	5578		1248		9171	3057		1251	
	5650		183			3282		184		
	5467		182			3098		183		
5	5285		365			2915		367		
	16402	5467		1615		9295	3098		1618	
	26134					4981				

F.B. 2844 P.G. 143

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by LeBault Time 9:30-10:15 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301 02
From BM 109-18 To BM 109-19
Date 4/10/61
Indexed H. E. OTT

Number of Station	BACKSIGHT Thread Readings	Mean 26134	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean 14987	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
6	5990		181	1613		3540		182	1618	
	5809		180			3358		181		
	5629		361			3177		363		
	17428	5809		1974		10075	3358		1981	
7	5552		179			3142		180		
	5373		179			2962		183		
	5194		358			2779		363		
	16119	5373		2332		8883	2961		2344	
8	5833		181			3672		179		
	5652		181			3493		183		
	5471		362			3310		362		
	16956	5652		2694		10475	3492		2706	
9	6255		183			3591		183		
	6072		183			3408		185		
	5889		366			3223		368		
	18216	6072		3660		10222	3407		3074	
10	6242		184			3783		183		
	6058		183			3600		184		
	5875		367			3416		367		
	18175	6058		3427		10799	3600		3441	
		55098					31805			

F.B. 2045 P.G. 144

76P526-CE 379—10-57

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

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 LINE

Chief of Party Brooks Weather Clear Inst. No. 15066
Notes by L.E. Hall Time 930 - 1015 Rod No. 19-20

Name L. A. Co. Precise Level Net
Job No. 030102
From BM 109-18 To BM 109-19
Date 4/18/61
Indexed H.E. ON

Number of Station	BACKSIGHT Thread Readings	Mean 55098	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean 31805	Thread Intervals	Sum of Intervals
	5948		181	3427		3802		184	3441
	5767		182			3618		181	
11	5585		363			3437		365	
	17300	5767		8790		10857	3619		3806
	6132		181			3852		181	
	5951		183			3671		183	
12	5768		364			3488		364	
	17851	5950		4154		11011	3670		4170
	5553		106			2461		108	
	5452		103			2353	✓	108	
13	5349		209			2245		216	
	16359	5453		4363		7059	2353		4386

Total Backsights =	72268
Total Foresights =	41447
Diff. Elev. =	+30821
Backsight stadia =	4363
Foresight Stadia =	4386
Total Stadia =	8749
=	.55 mi

BM 109-19
2 mi SE of Palmdale Blvd
on 165th St
See FB 2844-25

Summation of Run
From B.M. 109-18
To B.M. 109-19

F.B. 2845 P.G. 145

72268 41447

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

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 LINE

Chief of Party Brooks Weather Clear - Windy Inst. No. 15066
Notes by E. E. Brooks Time 11:30 - 12:00 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 030102
From Bm 109-19 To Bm 109-18
Date 11 April 1961
Indexed E. E. Ott

F.B. 2845 P.G. 146

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	2.343		.107		#19	5.442		.105		Bm 109-19
	2.236		.107			5.337		.106		2 mi. S of Palmdale Blvd
1	2.129	1	.214			5.231		.211		on 165th St
	6.708	2.236		.214	78°	16.010	5.337		.211	See FB 2844-25
	3.768		.181			6.047		.183		
	3.587		.184			5.864		.181		T BAR Loth
2	3.403		.365			5.683		.364		
	10.758	3.586		.579		17.594	5.865		.575	
	3.609		.181			5.758		.183		
	3.428		.182			5.575		.182		
3	3.246		.363			5.393		.365		
	10.283	3.428		.942		16.726	5.575		.940	
	3.544		.186			6.002		.185		
	3.358		.184			5.817		.182		
4	3.174		.370			5.635		.367		
	10.076	3.359		1.312		17.454	5.818		1.307	
	3.380		.183			6.044		.184		
5	3.197		.183			5.860		.183		
	3.014		.366			5.677		.367		
	9.591	3.197		1.678		17.581	5.860		1.674	
		15.806					28.453			

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by F. E. Brooks Time 11:30 - 12:00 Rod No. 19-20

Name L.A. Co. Precised Level Net
Job No. 230102
From BM 109-19 To BM 109-18
Date 11 April 1961
Indexed F. E. O'B

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
6	3.380	15.806	.182	1.678		5.540	28.455	181	1.674	
	3.198		.180			5.359		.181		
	3.018		.362			5.178		.362		
	9.596	3.199		2.040		16.077	5.359		2.036	
7	3.253		.182			5.662		.180		
	3.071		.181			5.482		.180		
	2.890		.363			5.302		.360		
	9.214	3.071		2.403		16.446	5.482		2.396	
8	3.484		.182			5.933		.180		
	3.302		.181			5.753		.180		
	3.121		.363			5.573		.360		
	9.907	3.302		2.766		17.258	5.753		2.756	
9	3.598		.182			5.962		.180		
	3.416		.184			5.782		.181		
	3.232		.366			5.601		.361		
	10.246	3.415		3.132		17.345	5.782		3.117	
10	3.418		.180			5.942		.184		
	3.238		.180			5.758		.181		
	3.058		.360			5.577		.365		
	9.714	3.238		3.492		17.277	5.759		3.482	
		32.031					34.539			

F.B. 2945 P.G. 147

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. L506
Notes by E. E. Brooks Time 11:30 - 12:00 Rod No. 17-20

L.A. Co. Precise Level Net
Name
Job No. 030102
From BM 109-19 To BM 109-18
Date 11 April 1961
Indexed H. E. on

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
11	3.696	32.031	.180	3.492		5.929	56.590	.186	3.482	
	3.516		.180			5.743		.185		Total Backsights = 42.437
	3.336		.360			5.558		.371		Total Foresights = 71.025
	10.548	3.516		3.852		17.230	5.743		3.853	Diff. Elev. = − 28.588
12	3.433		.182			5.984		.184		
	3.251		.182			5.800		.183		Backsight stadia = 4.373
	3.069		.364			5.617		.367		Foresight Stadia = 4.371
	9.753	3.251		4.216		17.401	5.800		4.220	Total Stadia = 8.744
13	3.717		.078			2.968		.077		= .55 mi
	3.639		.079			2.891		.074		
	3.560		.157			2.817		.151		
	10.916	3.639		4.373		8.676	2.892		4.371	
										BM 109-18 165th St E at Ave S
										see FB 2044-24
										Summation of Run From B.M. 109-19 To B.M. 109-18
		42.437	/				71.025	/		

F.B. 2045 P.G. 146

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

F.B. 2845 PG. 149

SURVEY BY A.C. Gaziado WEATHER Slight Mint INST. NO. 75230

NOTES BY G.E. Cook DATE 5-8-61 TIME 1:30-2:00 ROD NO. 95A

INDEXED [illegible] DATE NOTES CHKD DATE

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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 BM 109-18 TO BM-109-19
BM 109-18									BM 109-18
1	170	538	471 5	198 142 56	098	087	399 5	126 70 56	
2	203	601	504 5	230 175 55	096	018	397 5	123 68 55	
3	208	920	509 5	235 180 55	099	892	400 5	127 72 55	
4	203	442	504 5	230 175 55	092	455	393 5	120 65 55	
5	200	770	501 5	227 172 55	097	403	398 5	125 70 55	π A.L. Goble
6	207	555	508 5	235 180 55	092	071	393 5	120 65 55	
7	207	847	508 5	235 180 55	104	206	405 5	133 77 56	
8	179	618	480 5	195 164 31	126	107	427 5	142 111 31	
9	179	911	480 5	192 166 26 443	084	303	385 5	97 70 27 443	
Total	1762	202			890	542		888 METERS	
Diff in	890	542							
Elev	871	660							
BM 109-19									BM 109-19

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM 109-19 TO BM 109-18
BM 109-19													BM 109-19
1	083	452	384	5	97 / 70	27	179	031	480	5	192 / 166	26	
2	124	292	425	5	140 / 109	31	178	922	479	5	194 / 163	31	
3	106	343	407	5	133 / 78	55	208	308	509	5	235 / 180	55	
4	097	172	398	5	125 / 70	55	215	462	516	5	243 / 188	55	
5	102	362	403	5	130 / 75	55	200	146	501	5	227 / 172	55	⊼ A.L Goble
6	087	835	388	5	115 / 60	55	203	378	504	5	230 / 175	55	
7	096	978	397	5	123 / 68	55	203	977	504	5	230 / 175	55	
8	096	028	397	5	123 / 68	55	204	295	505	5	231 / 176	55	
9	101	278	402	5	128 / 73	55 / 443	173	685	474	5	201 / 145	56 / 443	
Total	895	740					1767	204	/			443 / 886	METERS
Diff in Elev							895	740	/				BM 109-18
							871	464					
BM 109-18													

F.B. 2845 PG. 150 JOB NO. 0301.02

SURVEY OF L. A. CO. PRECISE LEVEL NET

SURVEY BY ACG NOTES GEC

INDEXED H. E. OR DATE

WEATHER Clear N3 INST. NO. 5234

TIME 2:00 - 2:30 ROD NO. 9896

NOTES CHKD DATE

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by F. E. Brooks Time 10:15 - 10:20 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-19 To BM 109-19A
Date 10 April 1961
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	3.661		.148		#19	3.729		.146		BM 109-19
	3.513		.148			3.583		.145		165 St. E. 2mi So. of
1	3.365		.296			3.438		.291		Palmdale Blvd.
	10.539	3.513		.296	66°	10.750	3.583		.291	See F.B. 2844-25
	5.823		.145			2.757		.136		BM 109-19A
	5.678		.143			2.621		.137		165Th St. E. 2 mi So. of
2	5.535		.288			2.484		.273		Palmdale Blvd.
	17.036	5.679		.584		7.862	2.621		.564	See F.B. 2844-25
										T. Rodriguez
										Summation of Run
										From B.M. 109-19
										To B.M. 109-19A
										Total Backsights = + 9.192
										Total Foresights = - 6.204
										Diff. Elev. = +2.988
										Backsight stadia = .584
										Foresight Stadia = .564
										Total Stadia = 1.148
										= .07 mi
		9.192					6.204			

F.B. 2845 P.G. 151

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 25066
Notes by F. E. Brooks Time 11:25 - 11:30 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-19A To BM 109-19
Date 11 April 1961
Indexed F. E. Brooks

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
1	2.808		.139		#19	5.869		.141		BM 109-19A
	2.669		.138			5.728		.141		165 Th St. E. 2 mi So of
	2.531		.277			5.587		.282		Palmdale Blvd.
	8.008	2.669		.277	78°	17.184	5.728		.282	See F.B. 2844-25
2	4.248		.146			4.179		.150		BM 109-19
	4.102		.150			4.029		.147		165 Th St. E. 2 mi So of
	3.952		.296			3.882		.297		Palmdale Blvd
	12.302	4.101		.573		12.090	4.030		.579	See F.B. 2844-25
										T Rodriguez
										Summation of Run From B.M. 109-19A To B.M. 109-19
										Total Backsights = + 6.770 Total Foresights = − 9.758 Diff. Elev. = − 2.988
										Backsight stadia = .573 Foresight Stadia = .579 Total Stadia = 1.152 = .07 mi
		6.770					9.758			

F.B. 2845 PG. 152

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Inst. No. 15066
Notes by F. E. Brooks Time 10:20 - 10:55 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-19A To BM 109-20
Date 10 April 1961
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	4.849		.146		#19	4.008		.140		BM 109-19A
	4.703		.148			3.862		.148		165 St. E. 2mi So. of
1	4.555		.294			3.714		.294		Palmdale Blvd.
	14.107	4.702		.294	66°	11.584	3.861		294	See F.B. 2844-25
	6.355		.181			3.678		.185		
	6.174		.182			3.493		.185		T Rodriguez
2	5992		.363			3.308		.370		
	18.521	6.174		657		10.479	3.493		.664	
	6.029		.181			3.363		.184		
	5.848		.185			3.179		.187		
3	5.663		.366			2.992		.371		
	17.540	5.847		1023		9.534	3.178		1.035	
	6.088		.180			3.462		.183		
	5.908		.181			3.279		.182		
4	5.727		.361			3.097		.365		
	17.723	5.908		1.384		9.838	3.279		1.400	
	5.948		.180			3.549		.184		
	5.768		.180			3.365		.184		
5	5.588		.360			3.181		.368		
	17.304	5.768		1.744		10.095	3.365		1.768	
		28.399					17.176			

F.B. 2844 P.G. 153

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

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 LINE

Chief of Party F. E. Brooks Weather Clear — Inst. No. 15066
Notes by F. E. Brooks Time 10:20-10:55 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-19A To BM 109-20
Date 10 April 1961
Indexed H. E. on

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
6	5.528	28.309	.186	1.744		2.795	19.176	.178	1.768	
	5.342		.189			2.617		.182		
	5.153		.375			2.435		.360		
	16.023	5.341		2.119		7.847	2.616		2.128	
7	5.949		.184			3.208		.183		Summation of Run From B.M. 109-19A To B.M. 109-20
	5.765		.183			3.025		.180		
	5.582		.367			2.845		.363		
	17.296	5.765		2.486		9.078	3.026		2.491	
8	6.042		.180			3.042		.180		Total Backsights = + 57.066
	5.862		.180			2.862		.184		Total Foresights = — 30.634
	5.682		.360			2.678		.364		Diff. Elev. = + 26.432
	17.586	5.862		2.846		8.582	2.861		2.855	
9	6.024		.183			3.467		.180		Backsight stadia = 3.515
	5.841		.186			3.287		.182		Foresight Stadia = 3.529
	5.655		.369			3.105		.362		Total Stadia = 7.044
	17.520	5.840		3.215		9.859	3.286		3.217	= .45 mi.
10	6.009		.150			1.825		.156		BM 109-20
	5.859		.150			1.669		.156		165th St. E. at Ave T
	5.709		.300			1.513		.312		see F.B. 2844-26
	17.577	5.859		3.515		5.007	1.669		3.529	
		57.066					30.634			

F.B. 2845 P.G. 154

76P526-CE 379—10-57

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

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 LINE

Chief of Party E. E. Brooks Weather Clear Inst. No. 15066
Notes by LeGault Time 9:45 – 11:30 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-20 To BM 109-19A
Date 4/11/61
Indexed H. E. OTT

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
1	1975		152		76°	6165		153		BM 109-20
	1823		154			6012		150		165 Th St. E. at Ave T
	1669		306			5862		303		See F.B. 2844-26
	5467	1822				18039	6013			
2	3372		183			5927		182		π Rodriques
	[illegible]		180			5745		182		
	[illegible]		363			5563		364		
	[illegible]	3190		669		17235	5745		667	
3	[illegible]		183			6267		180		
	[illegible]		182			6087		180		
	[illegible]		365			5907		360		
	[illegible]	3085		1034		18261	6087		1027	
4	[illegible]		186			6075		184		
	[illegible]		184			5891		180		
	2965		370			5711		364		
	9449	3150		1404		17677	5892		1391	
5	3049		181			5778		186		
	2868		185			5592		184		
	2683		366			5408		370		
	8600	2867		1770		16778	5593		1761	
		14114					29330			

F.B. 2845 P.G. 155

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

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 LINE

Chief of Party F. E. Brooks Weather CLEAR Inst. No. 15166
Notes by Le Gault Time 945-11.30 Rod No. 19-20

Name E.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-20 To BM 109-19A
Date 4/11/61
Indexed H. E. OT

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean 14114	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean 29330	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
6	3769		182	1770		6175		186	1761	
	3587		182			5989		182		
	3405		364			5807		368		
	10761	3587		2134		17971	5990		2129	
7	3432		183			6061		183		Summation of Run
	3249		181			5878		185		From B.M. 109-20
	3068		364			5693		368		To B.M. 109-19A
	9749	3250		2498		17632	5877		2497	
8	3388		185			6057		184		Total Backsights = + 30971
	3203		184			5872		185		Total Foresights = − 57408
	3019		369			5687		369		Diff. Elev. = − 26437
	9610	3203		2867		17616	5872		2866	
9	3302		187			5975		180		Backsight stadia = 3534
	3115		186			5795		183		Foresight Stadia = 3519
	2929		373			5612		363		Total Stadia = 7053
	9346	3115		3240		17382	5794		3229	= .45 mi
10	3849		147			4689		143		BM 109-19A
	3702		147			4546		147		165th St. E. 2 mi. So of
	3555		294			4399		290		Palmdale Blvd.
	11106	3702		3534		13634	4545		3519	See F.B. 2844-25
		30971					57408			

F.B. 2845 P.G. 156

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks — Weather CLEAR — Inst. No. 15066
Notes by L. E. Gault — Time 11:00 - 11:40 — Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-20 To BM 109-21
Date 4/4/61
Indexed

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	4113		045		70°	3498		646		BM 109-20
	4068		045			3452		047		165 ft. E. of Ave T
1	4023		90			3405		93		
	12204	4068				10355	3452			See F.B. 2841-26
	4121		153			3429		147		
	3968		149			3282		147		T Rodriguez
2	3819		302			3135		294		
	11908	3969		392		9846	3282		387	
	5925		182			3173		185		
	5743		184			2988		185		
3	5559		366			2803		370		
	17227	5743		758		8964	2988		757	
	6918		185			2682		187		
	6733		184			2495		187		
4	6549		369			2308		374		
	20200	6733		1127		7485	2495		1131	
	6523		179			3057		182		
	6344		179			2875		180		
5	6165		358			2695		362		
	19032	6344		1485		8627	2876		1493	
	26857					15093				

F.B. 2845 P.G. 157

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

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 LINE

Chief of Party F. F. Brooks Weather CLEAR Inst. No. 15066
Notes by LC Gault Time 1100 – 1140 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 230102
From Bay 109-20 To Bay 109-21
Date 4/10/61
Indexed H. E. on

F.B. 2845 P.G. 158

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	26857					15093				
6	5868		180	1485		3139		184	1493	
	5708		183			2955		186		
	5525		363			2769		370		
	17121	5707		1848		8863	2954		1863	
7	5942		180			2951		178		
	5762		180			2773		180		
	5582		360			2593		358		
	17286	5762		2208		8317	2772		2221	
8	5993		180			3149		180		
	5813		180			2969		177		
	5633		360			2792		357		
	17439	5813		2568		8910	2970		2578	
9	6683		180			2209		180		
	6503		181			2029		186		
	6322		361			1849		360		
	19508	6503		2929		6087	2029		2938	
10	6132		181			2701		182		
	5951		180			2519		186		
	5771		361			2333		368		
	17854	5951		3290		7553	2518		3306	
	56523					28336				

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by F.E. Brooks Time 1100 - 1140 Rod No. M-20

Name L.A. Co. Precise Level Net
Job No. 0-301.02
From B.M. 109-20 To B.M. 109-21
Date 4/10/61
Indexed H. E. On

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	6119	5593	184	3290		2842	2833	180	3306	
11	5935		186			2662		186		Backsight Stadia = 3913
	5749		370			2482		360		Foresight Stadia = 3926
	17803	5934		3660		7986	2662		3666	Total Stadia = 7839
	6302		127			1835		130		= 1.5 mi
12	6173		126			1705		130		
	6049		253			1575		260		
	18526	6175		3913		5115	1705		3926	
										BM 109-21
										3 miles S of Palmdale Blvd
										on 165th St E of Ave T
										See FB 2844-27
										Total Backsights = 68702
										Total Foresights = 32703
										Diff. Elev. = + 35999
										Summation of Run
										From B.M. 109-20
										To B.M. 109-21
		68702					32703			

F.B. 2845 P.G. 159

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by F. E. Brooks Time 10:10 - 10:40 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-21 To BM 109-20
Date 11 April 1961
Indexed H. E. On

F.B. 2845 P.G. 160

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
1	1.324		.127		#19	5.792		.127		BM 109-21
	1.197		.128			5.665		.124		3m So of Palmdale Blvd
	1.069		.255			5.541		.251		on 165th St at NE T
	3.590	1.197		.255	72°	16.998	5.666		.251	See FB 2844-27
2	2.869		.182			6.142		.180		T Rod Ligget
	2.687		.184			5.962		.180		
	2.503		.366			5.782		.360		
	8.059	2.686		.621		17.886	5.962		.611	
3	2.872		.184			6.302		.180		
	2.688		.183			6.122		.180		
	2.505		.367			5.942		.360		
	8.065	2.688		.988		18.366	6.122		.971	
4	2.463		.175			6.947		.185		
	2.288		.176			6.762		.183		
	2.112		.351			6.579		.368		
	6.863	2.288		1.339		20.288	6.763		1.339	
5	3.282		.179			6.125		.180		
	3.103		.180			5.945		.180		
	1.923		.359			5.765		.360		
	9.308	3.103		1.698		17.835	5.945		1.699	
		11.962					30.458			

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by F. E. Brooks Time 10:10 - 10:40 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 030102
From BM 109-21 To BM 109-20
Date 11 Apr. 1961
Indexed H. E. On

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
6	3.114	11.962	.177	1.698		6.107	30.458	.182	1.699	
	2.937		.179			5.925		.180		
	2.758		.356			5.745		.362		
	8.809	2.936		2.054		17.777	5.926		2.061	
7	3.083		.182			5.835		.180		
	2.901		.183			5.655		.183		
	2.718		.365			5.472		.363		
	8.702	2.901		2.419		16.962	5.654		2.424	
8	3.289		.180			6.755		.180		
	3.109		.182			6.575		180		
	2.927		.362			6.395		.360		
	9.325	3.108		2.781		19.725	6.575		2.784	
9	2.555		.186			6.792		.183		
	2.369		.184			6.609		.184		
	2.185		.370			6.425		.367		
	7.109	2.370		3.151		19.826	6.609		3.151	
10	3.102		.185			6.855		.183		
	2.917		.188			6.672		.183		
	2.729		.373			6.489		.366		
	8.748	2.916		3.524		17.016	5.672		3.517	
		26.193					60.894			

F.B. 2945 P.G. 16

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by F. E. Brooks Time 10:10 - Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 030162
From BM 109-21 To BM 109-20
Date 18 April 1962
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
11	3.689	26.193	.147	3.524		4.382	60.894	.154	3.517	Backsight stadia = 3.909
	3.542		.147			4.228		.150		Foresight Stadia = 3.915
	3.395		.294			4.078		.304		Total Stadia = 7.824
	10.626	3.542		3.818		12.688	4.229		3.821	= .50 mi
12	3.754		.046			4.372		.047		
	3.708		.045			4.325		.047		
	3.663		.091			4.278		.094		
	11.125	3.708		3.909		12.975	4.325		3.915	
										BM 109-20 165th St & Adct
										See FB 2844-26
										Total Backsights = + 33.443
										Total Foresights = — 69.448
										Diff. Elev. = — 36.005
										Summation of Raw
										From B.M. 109-21
										To B.M. 109-20
		33.443					69.448			

F.B. 2845 P.G. 162

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks — Weather Clear - Windy — Inst. No. 15066
Notes by F. E. Brooks — Time 11:30 - 11:45 — Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0801.02
From BM 109-21 To BM 109-21A
Date 10 April 1961
Indexed H. E. On

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	4.637		.149		#19	2.608		.147		BM 109-21
	4.488		.150			2.461		.145		165th St. E. at Ave. T8
1.	4.338		.299			2.316		.292		
	13.463	4.488		.299	70°	7.385	2.462		.292	See F.B. 2844-27
	5.537		.113			2.938		.118		BM 109-21A
	5.424		.112			2.820		.117		165th St. E. at Ave T8
2.	5.312		.225			2.703		.235		See F.B. 2844-27
	16.273	5.424		.524		8.461	2.820		.527	
										T Bar 16 Hi
										Summation of Run
										From B.M. 109-21
										To B.M. 109-21A ✓
										Total Backsights = + 9.909
										Total Foresights = − 5.282
										Diff. Elev. = + ~~4.627~~ 4.630
										Backsight stadia = .524
										Foresight Stadia = .527
										Total Stadia = 1.051
										= .07 mi.
		9.909					5.282			

F.B. 2845 P.G. 163

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

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 LINE

Chief of Party F. E. Brooks Weather Clear- Inst. No. 15066
Notes by F. E. Brooks Time 10:05 - 10:10 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-21A To BM 109-21
Date 11 April
Indexed H. E. OH

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	2.902		.117		#19	5.502		.113		BM 109-21A
	2.785		.117			5.389		.113		165th St. E. at Ave T8
1	2.668		.234			5.276		.226		see F.B. 2844-27
	8.355	2.785		.234	72°	16.167	5.389		.226	
	2.851		.147			4.881		.150		BM 109-21
	2.704		.144			4.731		.149		165th St. E. at Ave T8
2	2.560		.291			4.582		.299		see F.B. 2844-27
	8.115	2.705		.525		14.194	4.731		.525	
										T Barilotti
										Summation of Run
										From B.M. 109-21A
										To B.M. 109-21
										Total Backsights = + 5.490
										Total Foresights = − 10.120
										Diff. Elev. = − 4.630
										Backsight stadia = .525
										Foresight Stadia = .525
										Total Stadia = 1.050
										= .07 mi.
		5.490					10.120			

F.B. 2845 PG. 164

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by F. E. Brooks Time 11:45 - 1:25 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-21A To BM 109-22
Date 10 April 1961
Indexed H. E. On

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	5.438		.148		#19	3.253		.149		BM 109-21A
	5.290		.147			3.104		.149		165 St. E. of Ave T8
1	5.143		.295			2.955		.298		
	15.871	5.290		.295	70°	9.312	3.104		298	See F.B. 2844-27
	6.549		.184			3.057		.182		
	6.365		.182			2.875		.183		T Bariloti
2	6.183		.366			2.692		.365		
	19.097	6.366		.661		8.624	2.875		.663	
	6.291		.184			2.859		.182		
	6.107		.183			2.675		.184		
3	5.924		.367			2.491		.366		Inv. for lunch
	18.322	6.107		1.028		8.023	2.674		1.029	
	6.272		.181			2.975		.183		
	6.091		.179			2.792		.182		
4	5.912		.360			2.610		365		
	18.275	6.092		1388		8.377	2.792		1.394	
	6.224		.180			2.613		.184		
	6.044		.180			2.429		.185		
5	5.864		.360			2.244		.369		
	18.132	6.044		1.748		7.286	2.429		1.763	
		29899					13.874			

F.B. 2845 P.G. 165

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by F. E. Brooks Time 11:45 - 1:25 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-21A To BM 109-22
Date 10 April 1961
Indexed F. E. B.

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
6	6.684	29.899	.186	1.748		2.632	13.874	.178	1.763	
	6.498		.185			2.454		.179		
	6.313		.371			2.275		.357		
	19.495	6.498		2.119		7.361	2.454		2.120	
7	6.373		.179			2.817		.181		
	6.194		.179			2.636		.181		
	6.015		.358			2.455		.362		
	18.582	6.194		2.477		7.908	2.636		2.482	
8	7.004		.181			1.901		.183		
	6.823		.181			1.718		.182		
	6.642		.362			1.536		.365		
	20.469	6.823		1.839		5.155	1.718		2.847	
9	6.915		.184			2.017		.183		
	6.731		.182			1.834		.181		
	6.549		.366			1.653		.364		
	19.195	6.732		3.205		5.504	1.835		3.211	
10	6.830		.181			1.612		.185		
	6.649		.180			1.427		.184		
	6.469		.361			1.243		.369		
	19.948	6.649		3.566		4.282	1.427		3.580	
		62.795					23.944			

F.B. 2846 PG. 166

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by F. E. Brooks Time 11:45 - 1:25 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-21A To BM 109-22
Date 10 April 1961
Indexed H. F. Ott

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	5.685	62.795	.090	3.566		1.919	23.944	.083	3.580	BM 109-22
	5.595		.089			1.836		.085		165th St. E. 3.5 miles S.
11	5.506		.179			1.751		.168		of Palmdale Blvd.
	16.786	5.595		3.745		5.506	1.835		3.748	See F.B. 2844-28
										Summation of Run
										From B.M. 109-21A
										To B.M. 109-22
										Total Backsights = + 68390
										Total Foresights = − 25.779
										Diff. Elev. = + 42.611
										Backsight stadia = 3.745
										Foresight Stadia = 3.748
										Total Stadia = 7.493
										= .47 mi
		68.390					25.779			

F.B. 2844 P.G. 167

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by LeGault Time 9:30 - 10:00 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM109-22 To BM109-21A
Date 4/14/61
Indexed

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
1	1961 1876 1791 5628	1876	085 085 170		72°	5729 5638 5550 16917	5639	091 088 179		BM109-22, 165th St. E. 3.5 mi S. of Palmdale Blvd. See F.B. 2844-28
2	1786 1603 1418 4807	1603	183 185 368	538		7007 6826 6646 20479	6826	181 186 361	540	T Baillott
3	1997 1812 1630 5439	1813	185 182 367	905		6892 6711 6530 20133	6711	181 181 362	902	
4	2140 1956 1772 5868	1956	184 184 368	1273		7241 7059 6878 21178	7059	182 181 363	1265	
5	2931 2749 2568 8248	2749	182 181 363	1636		6484 6306 6129 18919	6306	178 177 355	1620	
		9997					32541			

F.B. 2845 P.G. 168

76P526-CE 379—10-57

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

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 LINE

Chief of Party E.E. Brooks Weather Clear Inst. No. 15066
Notes by L.E. Gault Time 7:30-10:00 Rod No. 19-20

L.A. Co. Precise Level Net
Name
Job No. 0301.02
From BM 109-22 To BM 109-21A
Date 4/4/61
Indexed H.E.O.

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B.S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	2629	9997	180	1636		6673	32541	182	1620	
	2449		179			6491		182		
6	2270		359			6309		364		
	7348	2449		1995		19473	6491		1984	
	2780		183			6394		181		
	2597		186			6213		181		
7	2411		369	2364		6033		362	2346	
	7788	2596				18640	6213			
	3059		183			6356		181		
	2876		184			6175		180		
8	2692		367	2731		5995		361	2707	
	8627	2876				18526	6175			
	2846		183			6280		184		
	2663		182			6096		185		
9	2481		365	3096		5911		369	3076	
	7990	2663				18087	6096			
	3146		179			6642		186		
	2967		179			6456		187		
10	2788		358	3154		6269		373	3149	
	8901	2967				19367	6456			
		23548					38972			

F.B. 2915 P.G. 109

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by L.C. Brault Time 9:30 - 10:00 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-22 To BM 109-21A
Date 4/11/61
Indexed

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean 23548	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean 63972	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	3502		146	3154		5690		149	3149	BM 109-21A
	3356		147			5541		151		165 Th St. E. at Ave T8
11	3209		293			5390		300		see F.B. 2844-27
	10067	33556		3447		16621	55540		3449	

Summation of Run
From B.M. 109-22
To B.M. 109-21A

Total Backsights = + 26904
Total Foresights = − 69512 /
Diff. Elev. = − 42608 /

Backsight stadia = 3447
Foresight Stadia = 3449
Total Stadia = 6896
= .48 mi

F.B. 2845 P.G. 170

26904 /

69512 /

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.

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

SURVEY BY A.C. Guizado WEATHER Clear Wind INST. NO. 752

NOTES BY A.R.P. DATE 5-4-61 TIME 11:20 to 11:30 ROD NO. 95-9

INDEXED [illegible] DATE NOTES CHKD DATE

F.B. 2845 PG 17

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA		DESCRIPTION AND REMARKS
													FROM B.M. 109-21 TO T.B.M & B.M 109-22
B.M. 109-21					223						82		B.M. 109-21
1 Total	197	272	498	5	170	53	056	143	357	5	29	53	
	056	143	/				056	143				53	F.B. 2418-27
Diff. Elv.	141	129								5		106	Meters 165th St East, 2.00 Mi
BM 109-21A													No. Pearblossom Hy.
1	205	618	506	5	233 177	56	059	940	360	5	87 32	55	BM 21-A (LA Co Rd Dept)
2	212	276	513	5	240 185	55	061	048	362	5	88 33	55	
3	219	932	520	5	247 192	55	068	517	369	5	96 41	55	T. Moya
4	233	523	534	5	260 205	55	053	827	354	5	81 26	55	
5	227	373	528	5	255 200	55	036	813	337	5	63 8	55	
6	252	114	553	5	279 224	55	030	439	331	5	58 3	55	
7	276	718	577	5	302 251	51	018	338	319	5	44 18 26 x 2	52	
Total	1627	554	/			382	328	922				382	
	328	922										382	
Diff. Elv.	1298	632	/									764	Meters
B.M. 109-22													B.M. 109-22
													165th St E. & 3.5 Mi So Hwy 138
													See FB 2844-28

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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 B.M. 109-22 TO T.B.M. & B.M. 109
B.M.-109-22													BM 109-22
1	009	692	310	5	35 / 9	52	266	898	567	5	291 / 240	51	
2	030	363	331	5	58 / 3	55	254	125	555	5	281 / 226	55	
3	027	573	328	5	42 / 55 / 27	56	216	625	517	5	243 / 188	55	
4	056	051	357	5	84 / 29	55	236	338	537	5	261 / 208		
5	067	888	368	5	95 / 40	55	218	837	519	5	245 / 190	55	
6	060	532	361	5	88 / 33	55	212	291	513	5	240 / 185	55	
7	063	377	364	5	91 / 36	55	209	512	510	5	237 / 181	56	
Total	315	476					1614	626	/				
							315	476	/				
Elev/Diff							1299	150	/				
T.B.M. Rd. Dept Mon													T.B.M. Rd. Dept Mon. 1961
1	049	035	350	5	75 / 22	53	190	272	491	5	216 / 163	53	
Total							049	035	/				
							141	237	/				
Diff-Elev.													
B.M. 109-21													B.M. 109-21
													F.B.

F.B. 2845 PG. 172 JOB NO. 0301.02

SURVEY OF LA Co. PRECISE LEVEL NET

SURVEY BY A.C.G. NOTES Cook

INDEXED H.E. OR DATE 5-

WEATHER Windy N-3 INST. NO. 75234

TIME 2:20 - 2:45 ROD NO. 95-96

NOTES CHKD DATE

76P526B CE # 308 8-59

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET
SURVEY BY A. C. GUIZADO WEATHER WINDY INST. NO. 352
NOTES BY A. L. G. DATE 5-5-61 TIME 10.25 TO 10.55 ROD NO. 352
INDEXED T. E. CH DATE NOTES CHKD DATE
F.B. 2844 PG. 72

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS RERUN
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM 109-21 TO BM 109-22
BM 109-21													BM 109-21
1	176	080	477	5	203		034	890	335	5	x2 61		165TH ST E & AVE 'T-8'
	034	890	/		150	53					31	54	SEE F.B 2844-27 FOR DESC
DIFF/ELEV	141	190	CM										
BM 109-21A													BM 109-21A
1	194	182	495	5	222		047	650	348	5	75		
					166	56					20	55	SEE F.B 2844-27 FOR DESC
2	200	878	501	5	228		050	745	351	5	78		
					173	55					23	55	
3	212	585	513	5	240		059	971	360	5	87		
					185	55					32	55	
4	222	635	523	5	250		043	565	384	5	71		
					195	55					16	55	
5	219	181	520	5	247		027	225	328	5	x2 55		
					192	55					27	56	↑ G.E. COOK
6	243	538	544	5	270		022	550	323	5	x2 50		
					216	54					22	56	
7	271	215	572	5	297		013	730	314	5	x2 38		
					246	51					13	50	
						381						382	
TOTAL	1564	214	CM				265	430	CM			381	
	265	430	/									763	METERS
DIFF/ELEV	1298	778	CM										
BM 109-22													BM 109-22
													165TH ST E & AVE 'U'
													SEE F.B 2844-28 FOR DESC

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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 BM 109-22 TO BM 109-21
BM 109-22													BM 109-22
1	015	555	316	5	X2 41 15	52	275	238	576	5	300 250	50	165 TH ST E & AVE 'U'
													SEE F.B 2844-28 FOR DESC
2	033	662	334	5	61 6	55	253	393	554	5	281 226	55	
3	036	529	337	5	63 8	55	230	899	531	5	258 203	55	
4	067	959	368	5	95 40	55	244	488	545	5	271 216	55	
5	063	441	364	5	90 35	55	216	743	517	5	244 189	55	⊼ E.C. MOYA
6	064	333	365	5	91 36	55	213	767	514	5	240 186	54	
7	060	985	361	5	87 33	54	207	023	508	5	235 179	56	
						381						380	
TOTAL	342	464	CM				1641	551	CM			381	
							342	464				761	METERS
DIFF/ELEV							1299	087	CM				
BM 109-21A													BM 109-21A
1	056	993	357	5	83 30	53	198	223	499	5	224 171	53	SEE F.B 2844-27 FOR DES
							056	993					
DIFF/ELEV							141	230	CM				
BM 109-21													BM 109-21
													165 TH & AVE 'T-8'
													FOR DESC
													F.B 2844-27

F.B. 2841 PG 174

SURVEY OF LA CO. PRECISE LEVEL NET

SURVEY BY ACG NOTES ALG 5/5/61

INDEXED H E OTT DATE

JOB NO. 0301.02

WEATHER WINDY

TIME 1.40 TO 2.20

NOTES CHKD

INST. NO. 75239 N3

ROD NO. 95 & 96

DATE

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.

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

SURVEY BY A. C. GUIZADO WEATHER Slight Wind INST. NO.

NOTES BY GEC DATE 5-8-61 TIME 10:00-10:30 ROD NO.

INDEXED H. E. OTT DATE NOTES CHKD DATE

F.B. 2845 PG. 175

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA		DESCRIPTION AND REMARKS FROM BM 109-21 TO BM 109-22
BM109-21													BM 109-21-
1	189	333	490	5	215 / 162	53	048	161	349	5	75 / 22	53	
	048	161											
Diff in EW	141	172											
BM109-21A													BM109-21 A
1	205	509	506	5	233 / 177	56	059	612	360	5	87 / 32	55	
2	212	762	513	5	240 / 185	55	061	315	362	5	88 / 33	55	
3	212	535	513	5	240 / 185	55	060	858	361	5	88 / 33	55	
													A A.L. Goble
4	222	050	523	5	250 / 195	55	042	492	343	5	70 / 15	55	
5	217	257	518	5	245 / 190	55	026	177	327	5	x2 / 54 / 26	56	
6	238	236	539	5	265 / 210	55	016	533	317	5	x2 / 44 / 16	56	
7	272	388	573	5	287 / 246	51	014	707	315	5	x2 / 40 / 14	52	
					382							384 / 382	
Total	1580	737					281	694				766 METERS	
Diff in	281	694											
Elev	1299	043											
	1299	043											
BM109-22													BM 109-22

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.

WEATHER _____ INST. NO. _____

TIME _____ ROD NO. _____

NOTES CHKD _____ DATE _____

F.B. 2845 PG. 176 JOB NO. 0301.02

SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY ACG NOTES _____

INDEXED H.E.O.B. DATE _____

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

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by L.C. Gault Time 1:30 – 2:00 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-22 To BM 109-28A
Date 4/10/61
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	4395		148		70°	2904		143		BM 109-22
	4247		148			2761		144		165 St. E. at 3.5 mi So.
1	4099	1	296			2617		287		of Palmdale Blvd.
	12741	4247				8282	2761			See F.B. 2844-28
	6196		182			2852		184		
	6014		180			2668		181		T Bail Lott
2	5834	1	362	658		2487		365	652	
	18044	6015				8007	2669			
	6166		182			1998		182		
	5984		181			1816		181		
3	5803	1	363	1021		1635		363	1015	
	17953	5984				5449	1816			
	6103		181			1953		185		
	5922		182			1768		182		
4	5740	2	363	1384		1586		367	1382	
	17765	5925				5307	1769			
	6524		185			1572		181		
	6339		183			1391		183		
5	6156		368	1752		1208		364	1746	
	19019	6340				4171	1390			
	28509	3				10425				

F.B. 2846 P.G. 177

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

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 LINE

Chief of Party F. E. Brooks Weather CLEAR Inst. No. 15066
Notes by L.C. GAULT Time 1:30 - 2:00 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-22 To BM 109-23A
Date 4/10/61
Indexed H. E. ON

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
		2850 8					10405			
6	6985		180	1752		2075		181	1746	
	6805		186			1894		181		
	6625		360			1713		362		
	20415	6805	2112			5682	1894	2108		
7	6507		180			1888		181		Summation of Raw
	6322		180			1707		182		From B.M. 109-22
	6142		360			1525		363		To B.M. 109-23A
	18966	6322	2472			5126	1707	2471		
8	6325		181			1941		181		Total Backsights = + 56493
	6144		184			1760		181		Total Foresights = - 18260
	5960		365			1579		362		= + 38233
	18429	6143	2837			5280	1760	2833		
9	6867		154			2649		154		Backsight stadia = 3142
	6713		151			2495		156		Foresight Stadia = 3143
	6582	6	305			2339		310		Total Stadia = 6285
	20142	8714	3142			7483	2494	3143		= .39 mi
										BM-109-23A
										L.A. Co Rd. Dept mon
										STAMPED BM 1960
										SEE FB 2844-29
		4	1							
		56423					18260			
		54492								

F.B. 2845 P.G. 178

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by F. E. Brooks Time 1:55 - 2:00 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-23A To BM 109-23
Date 10 April 1961
Indexed H. E. On

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
1	6.028		.150		#19	2.628		.145		BM 109-23 A
	5.878		.149			2.483		.143		165 St. E. at 4 mi So. of
	5.729		.299			2.340		.288		Palmdale Blvd.
	17.635	5.878		.299	72°	7.451	2.484		.288	See F.B. 2844-29
2	6.030		.157			0.531		.159		BM 109-23
	5.873		.156			0.372		.155		165th St. E. 4 mi S. of
	5.717		.313			0.217		.314		Palmdale Blvd.
	17.620	5.873		.612		1.120	0.373		.602	See F.B. 2844-29
										T Bari lo Hi
										Summation of Run
										From B.M. 109-23A
										To B.M. 109-23
										Total Backsights = + 11.751
										Total Foresights = — 2.857
										Diff. Elev. = +8.894
										Backsight stadia = .612
										Foresight Stadia = .602
										Total Stadia = 1.214
		11.751					2.857			= .08 mi.

F.B. 2845 P.G. 179

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

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 LINE

Chief of Party F. E. Brooks Weather Inst. No. 16066
Notes by Time Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-23 To BM 109-23A
Date
Indexed H. E. OTT

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
										BM 109-23 165Th St. E. 4 mi S. of Palmdale Blvd. See F.B. 2844-29
										BM 109-23A 165Th St. E. 4 mi S. of Palmdale Blvd. See F.B. 2844-29
										T
										Summation of Run From B.M. To B.M.
										Total Backsights = + Total Foresights = — Diff. Elev. =
										Backsight stadia = Foresight Stadia = Total Stadia =

F.B. 1946 P.G. 180

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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 B.M 109-22 TO T.B.M & B.M 109-23
B.M 109-22					213						97		B.M. 109-22
1	185	575	486	5	157	56	070	532	371	5	42	55	
					254						71		F.B. 2418-28
2	227	149	528	5	200	54	043	700	344	5	16	55	165th ST. EAST 1.50 Mi No
					255						53		Pearblossom Hy
3	229	047	530	5	201	54	025	704	326	5	25 28	56	
					292						72		
4	264	587	565	5	237	55	044	850	345	5	17	55	
					282						78		T. Moya
5	254	480	555	5	227	55	051	048	352	5	23	55	
					253						74		
6	230	531	531	5	208	45	051	122	352	5	28	46	
Total	1391	369				319	286	956				322	
	286	956										319	
D.H. Elv	1104	413										641	Meters
T.B.M Rd Dept Mon					238						103		T.B.M Rd Dept Mon 1961
1	218	283	519	5	198	40	083	286	384	5	63	40	109-23A - FB 2844 - 29
					191						55		
2	179	753	480	5	168	23	043	580	344	5	31	24	
Total	398	036				63	126	866				64	
	126	866										63	
Diff Elv	271	170										127	Meters
B.M 109-23													B.M 109-23
													165th St. E. 1.0 mi No. Pearblossom H.W.
													F.B. 2844-29

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

SURVEY BY A.C. Guizado

NOTES BY A.R.B. DATE 5-3-61

INDEXED D.E. OH DATE

WEATHER Clear & Wind

TIME 1:00 to 1:40

NOTES CHKD

DATE

INST. NO.

ROD NO.

F.B. 2845 Pg. 18

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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 BM 109-23 TO BM109-23A
B.M-109-23													B.M-109-23-FB 2844-29
1	046	711	347	5	58 34	24	181	510	482	5	193 170	23	165th St. E & 4.00 Mi. So. Palmdale Blvd
2	089	852	390	5	109 20	39	226	138	527	5	246 206	40	
Total	136	543					407	648	/			63	
							136	543				63	
Diff Elev							271	105	/			126	Meters
T.B.M 109-23A													
1	065	500	366	5	88 42	46	244	082	545	5	267 222	45	
2	057	022	358	5	84 30	54	260	870	561	5	288 232	56	
													⊼ A.L. Goble
3	049	077	350	5	77 22	55	269	100	570	5	297 242	55	
4	031	759	332	5	59 4	55	235	212	536	5	262 207	55	
5	046	437	347	5	73 18	55	229	647	530	5	257 202	55	
6	069	773	370	5	97 42	55	185	537	486	5	213 157	56	
Total	319	568				320	1424	448	/			322	
Diff in							319	568				320	
Elev							1104	880	/			642	Meters BM 109-22
													FB 2844-28. 165th ST. E. & 3.5 Mi So. Palmdale Blvd

F.B. 2845 PG. 182

JOB NO. 0301.02

SURVEY OF L.A. CO. PRECISE LEVEL NF

SURVEY BY A.C.G. NOTES

INDEXED H. E. ON DATE

WEATHER Windy

TIME 1:50 to 220

NOTES CHKD

DATE

INST. NO. 7523

ROD NO. 95-96

N-3

GEC 5/4/61

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.

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

SURVEY BY A. C. GUIZADO WEATHER WINDY INST. NO. 752 N3

NOTES BY A. L. G. DATE 5-5-61 TIME 10.55 To 11.25 ROD NO. 95

INDEXED C. E. OTT DATE NOTES CHKD DATE

F.B. 2845 Pg. 183

STATION	BACKSIGHT RIGHT	MIC.	LEFT		STADIA		FORESIGHT RIGHT	MIC.	LEFT		STADIA		DESCRIPTION AND REMARKS RERUN FROM BM 109-22 TO BM 109-23
BM 109-22													BM 109-22
1	180	500	481	5	207 152	55	067	163	368	5	94 39	55	165 Th ST Ed AVE 'U'
2	215	172	516	5	243 188	55	029	309	330	5	x2 57 29	56	SEE F.B 2844-28. FOR DESC
3	227	257	528	5	255 200	55	025	971	326	5	x2 52 25	54	
4	258	730	559	5	285 230	55	036	838	337	5	64 9	55	
5	240	651	541	5	268 213	55	038	395	339	5	65 10	55	⊼ E.C. MOYA
6	227	978	528	5	245 204	45	047	951	348	5	70 24	46	
						320						321	
TOTAL	1350	288	CM				245	727	CM			320	METERS
	245	727										641	
IFF/ELEV	~~1104~~	~~561~~ 6	CM										
	1104	661											
BM 109-23A													BM 109-23A
1	203	631	504	5	224 83	41	069	498	370	5	89 50	39	165 Th ST E & 1.0 Mi No of
2	177	495	478	5	189 165	24	040	461	341	5	53 28	25	PEAR BLOSSOM HWY SEE F.B. 2844-29 FOR DESC
						65						64	
TOTAL	381	126	CM				109	959	CM			65	METERS
	109	959										129	
IFF/ELEV	271	167	CM										
M 109-23													BM 109-23
													SEE F.B. 2844-29 FOR DESC

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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						DESCRIPTION AND REMARKS RERUN
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM 109-23 TO BM 109-22
BM 109-23													BM 109-23
1	049	682	350	5	61 37	24	187	480	488	5	198 175	23	165 Th ST E & 1.0 MI No OF
													PEARBLOSSOM HWY
2	090	345	391	5	109 70	39	223	725	524	5	243 203	40	SEE F.B 2844-29 FOR DESC
TOTAL	140	027	CM			63	411	205	CM			63	
							140	027				63	
DIFF/ELEV							271	178	CM			126	METERS
BM 109-23A													BM 109-23A (R.D BM
1	064	899	365	5	87 41	46	245	969	546	5	268 223	45	SEE F.B 2844-29 FOR DESC
2	061	292	362	5	88 33	55	262	472	563	5	290 235	55	
3	045	609	346	5	73 18	55	270	870	571	5	298 243	55	
4	039	760	340	5	67 12	55	237	751	538	5	264 210	54	
													⊼ E, C MOYA
5	046	531	347	5	73 18	55	233	792	534	5	261 206	55	
6	074	173	375	5	91 46	55	185	892	486	5	213 157	56	
TOTAL	332	264	CM				1436	746	CM				
							332	264					METERS
DIFF/ELEV							~~1104~~	~~472~~ 8	CM				
BM 109-22							1104	482					BM 109-22
													165 Th ST E & AVE (U)
													SEE F.B 2844-28
													FOR DESC

F.B. 2845 PG. 184

SURVEY OF L.A.Co PRECISE LEVEL NET

SURVEY BY ACG NOTES ALG 5/5/61

INDEXED H.E. OTT DATE

JOB NO. 0301.02

WEATHER YES INST. NO. 7523 113

TIME 1.15 TO 1.40 ROD NO. 9569

NOTES CHKD. DATE

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15066
Notes by F. E. Brooks Time 2:00 - 2:35 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-23 To BM 109-24
Date 10 April 1961
Indexed H.E. ON

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	4.084		.146		#19	2.418		.146		BM 109-23.
	3.938		.147			2.272		.148		165 St. E. at 4 mi So. of
1	3.791		.293			2.124		.294		Palmdale Blvd.
	11.813	3.938		293	72°	6.814	2.271		294	See F.B. 2844-29
	6.584		.183			1.932		.180		
	6.401		.182			1.752		.180		T Bariloti
2	6.219		.365			1.572		.360		
	19.204	6.401		.658		5.256	1.752		.654	
	6.297		.182			2.446		.183		
	6.115		.179			2.263		.181		
3	5.936		.361			2.082		.364		
	18.348	6.116		1.019		6.791	2.264		1.018	
	6.688		.181			1.592		.183		
	6.507		.180			1.409		.181		
4	6.327		.361			1.228		.364		
	19.522	6.507		1.380		4.229	1.410		1.382	
	6.785		.182			1.518		.184		
	6.603		.179			1.334		.182		
5	6.424		.361			1.152		.366		
	19.812	6.604		1.741		4.004	1.335		1.748	
		29.566					9.032			

F.B. 2845 P.G. 1&5

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

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 LINE

Chief of Party F. E. Brooks
Notes by F. E. Brooks
Weather Clear - Windy
Time 2100 - 2135
Inst. No. 15066
Rod No. 19 - 20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-23 To BM 109-24
Date 10 April 1961
Indexed H. E. O.

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
6	6.617	29.566	.182	1.741		1.908	9.032	.181	1.748	
	6.435		.183			1.727		.184		
	6.252		.365			1.543		.365		
	19.304	6.435		2.166		5.178	1.726		2.113	
7	6.787		.175			1.997		.177		
	6.612		.174			1.820		.177		
	6.438		.349			1.643		.354		
	19.837	6.612		2.455		5.460	1.820		2.467	
8	7.338		.187			1.695		.188		
	7.151		.187			1.507		.186		
	6.964		.374			1.321		.374		
	21.453	7.151		2.829		4.523	1.508		2.841	
9	7.679		.190			1.810		.185		
	7.489		.189			1.625		.183		
	7.300		.379			1.442		.368		
	22.468	7.489		3.208		4.877	1.626		3.209	
F.B. 1945 P.G. 186	7.194		.186			1.291		.188		
	7.008		.186			1.103		.186		
	6.822		.372			0.917		.374		
	21.024	7.008		3.580		3.311	1.104		3.587	
		64.261					16.816			

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear - Windy Inst. No. 15011
Notes by F. E. Brooks Time 2:00 - 2:35 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-23 To BM 109-24
Date 12 April 1960
Indexed

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
11	7.031	64.261	.184	3.580		1.854	16.816	.186	3.583	
	6.843		.186			1.668		.188		
	6.657		.370			1.480		.374		
	20.531	6.844		3.950		5.002	1.667		3.957	
12	5.827		.089			2.959		.098		Summation of Run
	5.738		.088			2.861		.098		From B.M.
	5.650		.177			2.763		.196		To B.M.
	17.215	5.738		4.127		8.583	2.861		4.153	
13	7.977		.179			0.597		.157		BM 109-24
	7.798		.179			0.440		.155		165th St. E. 4.5 mi. S. of
	7.619		.358			0.285		.312		Palmdale Blvd.
	23.394	7.798		4.485		1.322	0.441		4.465	see F.B. 2844 -
										Total Backsights = + 84.641
										Total Foresights = − 21.785
										Diff. Elev. = +62.856
										Backsight stadia = 4.485
										Foresight Stadia = 4.465
										Total Stadia = 8.950
										= .56 mi
		84.641					21.785			

F.B. 2845 P.G. 187

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

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 LINE.

Chief of Party F. E. Brooks Weather Inst. No. 15066
Notes by Time Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.02
From BM 109-24 To BM 109-23
Date
Indexed H. E. OTT

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B. S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
1										BM 109-24 165 Th St. 4.5 mi. S. of Palmdale Blvd. See F.B. 2844-29
2										↑
3										
4										
5										

F.B. 2945 P.G. 188

[redacted]

76P5268 CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.

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

SURVEY BY A. C. Guizado WEATHER Clear & Wind INST. NO. 73

NOTES BY A.R.B. DATE 5-3-61 TIME 1:40 to 2:15 ROD NO. 95-9

INDEXED H. E. Ott DATE NOTES CHKD DATE

F.B. 2845 PG 189

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM B.M 109-23 TO BM 109-24
B.M. 109-23									B.M-109-23
1	181	783	482 5	209 154 55	023	197	324 5	51 23 28 56	
2	231	212	532 5	259 204 55	048	606	349 5	75 20 55	F.B. 2844-29 165th St. East. 1.00 Mi No. Pearblossom Hy.
3	263	662	564 5	291 236 55	025	840	326 5	52 25 27 54	
4	256	647	557 5	284 229 55	039	188	340 5	67 12 55	
5	258	151	559 5	285 230 55	016	143	317 5	44 16 28 56	T. Moya
6	270	834	571 5	298 243 55	023	397	324 5	51 23 28 56	
7	277	773	578 5	277 250 27 54	019	881	320 5	47 19 28 56	
8	263	913	564 5	292 235 57	021	162	322 5	47 21 26 52	
9	190	892	491 5	198 182 16	061	470	362 5	70 52 18	
Total	2194	867	/	457	278	884		458	
	278	884						458	
Diff Elv.	1915	983	/					916	Meters
B.M. 109-24									B.M. 109-24
									F.B. 2844-30. 165th St. East 2.05 Mi No. Pearblossom Hwy

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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. 2845 Pg. 190 — JOB NO. 0301.02 — INST. NO. 43 7234 — ROD NO. 25 E 62

SURVEY OF L.A. CO. PRECISE LEVEL NET — WEATHER Windy, II

SURVEY BY AGG — NOTES — TIME 11:45 - 14:45

INDEXED — DATE — NOTES CHKD — DATE

H. E. ON — DATE 5-4-61

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT	FORESIGHT STADIA	DESCRIPTION AND REMARKS
									FROM BM 109-24 TO BM 109-23
BM 109-24									BM 109-24
1	062	019	363 5	71 / 53 — 18	202	457	503 5	212 / 191 — 21	165th ST. E. 0.5 MI. So. Hwy 138
2	010	859	311 5	x2 38 / 10 — 56	282	992	583 5	281 / 255 — 54	SEE FB 2844-30
3	063	893	364 5	90 / 36 — 54	279	912	580 5	279 / 253 — 52	
4	025	433	326 5	x2 53 / 25 — 56	274	419	575 5	301 / 246 — 55	
5	017	205	318 5	x2 49 / 17 — 54	258	631	559 5	285 / 230 — 55	
6	041	633	342 5	68 / 14 — 54	259	511	560 5	287 / 231 — 56	
7	019	882	320 5	47 / 19 — 56	257	883	558 5	285 / 230 — 55	
8	056	907	357 5	84 / 29 — 55	239	233	540 5	266 / 211 — 55	
9	036	212	537 5	x2 64 / 9 — 55	195	327	496 5	222 / 167 — 55	
				458			/	458 / 458	
Total	334	043			2250	365	/	916	METERS
Diff in Elev BM 109-23					334	043	/		
					1916	322	/		

BM 109-23
165th ST. E. 1.0 MI. So. Hwy 138
SEE FB 2844-29

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.

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

SURVEY BY H.C. Quizado WEATHER Windy

NOTES BY Cook DATE 5-3-61 TIME 3:00 - 3:30 INST. NO. 75 23

INDEXED [illegible] DATE NOTES CHKD DATE ROD NO. 95-

F.B. 2845 PG. 19

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA		DESCRIPTION AND REMARKS
													FROM BM 109-24 TO BM 106-37
BM 109-24													BM 109-24 - F.B. 2844-30
1	226	482	527	5	258 / 198	55	042	799	343	5	70 / 15	55	165th St. East 0.5 Mi No.
2	270	947	571	5	297 / 243	54	011	941	312	5	x2 / 38 / 11	54	Pear blossom Hy. West side
3	295	431	596	5	x2 / 295 / 268	54	016	333	317	5	x2 / 43 / 16	54	et st.
4	279	773	580	5	x2 / 279 / 252	54	022	097	323	5	x2 / 49 / 22	54	
5	254	185	555	5	281 / 226	55	053	735	354	5	81 / 26	55	
6	286	517	587	5	x2 / 286 / 259	54	005	293	306	5	x2 / 32 / 05	54	π MOVA
7	241	600	542	5	258 / 224	34	039	873	340	5	56 / 23	33	
8	195	883	496	5	205 / 185	20	055	722	356	5	67 / 43	24	
Total	2050	818	/			380	247	793				383	
Pitt in	247	793										380	
Elev	1803	025	/									763	Meters
BM 106-37													BM 106-37
													FB 2418-44 Pear blossom
													Hwy. & 165th St. East
													S.E. Cor.

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM 106-37 TO BM 109-24
BM 106-37													BM 106-37
1	049	118	350	5	61 38	23	185	379	486	5	195 174	21	Pear blossom Hwy & 165th St. E. SE Cor.
2	046	808	347	5	62 30	32	235	611	536	5	252 218	34	
3	003	028	304	5	x2 30 3	54	299	670	600	5	x2 299 271	56	
4	050	175	351	5	77 22	55	251	806	552	5	279 224	55	
5	031	418	332	5	x2 59 3	54	289	662	590	5	x2 289 262	54	⊼ A.L. Goble
6	026	970	327	5	x2 53 26	54	290	385	591	5	x2 290 268	54	
7	007	587	308	5	x2 35 7	56	280	912	581	5	x2 280 252	56	
8	043	532	344	5	70 15	55	228	717	529	5	255 200	55	
						383						385	
Total	258	636					2062	142	/			383	
Ditt in							258	636				768	METERS
Elev.							1803	506	/				
BM 109-24													BM 109-24
													165th St. E, 0.5 mi. No. Pear blossom H.W.
													F.B. 2844-30

F.B. 2845 PG. 192

SURVEY OF L.A. CO. PRECISE LEVEL NET

SURVEY BY ACG NOTES G.E.C.

INDEXED [illegible] DATE

JOB NO. 030102

WEATHER Windy

TIME 1245 - 1:15

NOTES CHKD

INST. NO. 75234

ROD NO. 9589

DATE

N3

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.

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

SURVEY BY A. C. GUIZADO

NOTES BY A L G DATE 5/5/61

INDEXED [illegible] DATE

WEATHER WINDY

TIME 11.25 TO 12.00

NOTES CHKD. DATE

INST. NO. 75[illegible] N3

ROD NO. 95[illegible]

F.B. 2845 PG [illegible]

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA		DESCRIPTION AND REMARKS FROM BM 109-24 TO BM 106-37
BM 109-24													BM 109-24
1	205	240	506	5	233 / 178	55	022	837	323	5	x2 50 / 22	56	165 Th ST & 0.5 MI. NO OF
2	263	769	564	5	290 / 236	54	008	498	309	5	x2 36 / 8	56	PEARBLOSSOM HWY SEE F.B 2844-30 FOR DESC
3	301	789	602	5	x2 301 / 274	54	019	058	320	5	x2 56 / 19	54	
4	276	578	577	5	x2 276 / 248	56	016	968	317	5	x2 43 / 16	54	
5	249	687	550	5	277 / 222	55	049	838	350	5	77 / 22	55	
6	278	876	579	5	x2 278 / 251	54	006	234	307	5	x2 33 / 6	54	⊼ E.C. MOYA
7	261	991	562	5	279 / 244	35	051	592	352	5	67 / 35	32	
8	193	639	494	5	204 / 183	21 / 384	052	991	353	5	64 / 41	23 / 384	
TOTAL	2031	569	CM				228	016	CM			384	
	228	016										768	METERS
IFF/ELEV	1803	553	CM										
BM 106-37													BM 106-37 HWY 165 Th ST E & PEARBLOSSOM FB 2418-44 FOR DESC

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM 106-37 TO BM 109-24
BM 106-37													BM 106-37-FB
1	062	960	363	5	73 50	23	198	868	499	5	209 188	21	165th St. E. & Pearblossom Hwy
2	040	167	341	5	56 24	32	229	563	530	5	246 212	34	
3	003	198	304	5	x2 31 03	56	299	929	600	5	x2 299 271	56	
4	053	832	354	5	81 26	55	255	165	556	5	283 228	55	
5	029	128	330	5	57 02	55	286	611	587	5	x2 286 258	56	
6	017	942	318	5	x2 45 17	56	282	270	583	5	x2 282 254	56	T A.L. Goble
7	006	347	307	5	x2 34 06	56	279	862	580	5	x2 279 252	54	5-8-61
8	032	595	333	5	x2 59 04	55	217	343	518	5	245 190	55	
Total	246	169				388	2049	611	/			387	
Diff in							246	169				388	
Elev							1803	442	/			775	Meters
BM 109-24													BM 109-24, FB 2844-30 165th St. E. & 0.50 Mi No. Pearblossom Hwy

F.B. 2845 PG. 194 JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY A.C.G. NOTES G.E.C.

INDEXED H.E. OTT DATE

WEATHER Slight Wind INST. NO. N375234

TIME 1045-1115 ROD NO. 95E9

NOTES CHKD. DATE

76P526B CE # 308 8-59

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET
SURVEY BY AC Goble & GEC DATE 5-4-61 WEATHER Wind 10 20-11 90
NOTES BY G.E. Oh DATE TIME INST. NO. 7329
INDEXED DATE NOTES CHKD DATE ROD NO. 55-64
F.B. 2845 Pg. 45

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM106-37 TO BM106-38
BM106-37													BM 106-37
1	125	933	426	5	153 / 97	56	092	688	393	5	120 / 64	56	Pear blossom Hwy & 165TH St East - FB 2418-44
2	177	389	478	5	205 / 149	56	110	513	411	5	138 / 82	56	
3	150	203	451	5	178 / 122	56	134	505	435	5	162 / 106	56	
4	172	330	473	5	209 / 144	56	066	835	367	5	94 / 38	56	
5	198	551	499	5	226 / 170	56	095	600	396	5	123 / 67	56	A.L. Goble
6	204	150	505	5	232 / 176	56	082	818	383	5	110 / 54	56	
7	178	033	479	5	198 / 158	40	136	188	437	5	156 / 116	40	
					376						376	376	
Total	1206	589					719	147				752 METERS	
Diff in Elev	719	147											
	487	442											
BM106-38													BM 106-38
													FB 2418-45
													Pear blossom Hwy & 0.5 MI East 165th East

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM 106-38 TO BM 106-37
BM106-38													BM 106-38
1	135	102	436	5	155 / 115	40	174	312	475	5	194 / 154	40	
2	076	197	377	5	102 / 46	56	204	128	505	5	232 / 176	56	
3	097	116	398	5	125 / 59	56	195	872	496	5	223 / 167	56	
4	063	080	364	5	91 / 35	56	176	328	477	5	204 / 148	56	
5	142	430	443	5	170 / 114	56	150	506	451	5	178 / 122	56	⊼ A.L. Goble
6	102	444	403	5	130 / 74	56	176	517	477	5	204 / 148	56	
7	095	072	396	5	123 / 67	56	121	347	422	5	149 / 93	56	
Total	711	441				376	1199	010	/			376	
Diff in							711	441	/			376	
Elev							487	569	/			752	Meters
BM106-37													BM 106-37

F.B. 2845 PG. 196 JOB NO. 0301.02

SURVEY OF L. A. CO. PRECISE LEVEL NET

SURVEY BY ACC NOTES GEC

INDEXED R. E. OTT DATE

WEATHER Windy N-3 INST. NO. 75234

TIME 11:00-11:30 ROD. NO. 95-96

NOTES CHKD. DATE

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.

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

SURVEY BY A.C. GUIZADO WEATHER Windy INST. NO. 752

NOTES BY ACG DATE 5-9-61 TIME 1:30 to 2:00 ROD NO. 958

INDEXED B. E. Ott DATE NOTES CHKD DATE

F.B. 2845 PG. 19

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA		DESCRIPTION AND REMARKS FROM BM109-4 TO USBM 1975
BM109-4													BM109-4
1	096	290	397	5	120 / 73	47	197	778	498	5	224 / 173	48	PALMDALE BLVD & 110th ST E
													SEE FB 2844-10
2	154	155	455	5	178 / 130	48	202	420	503	5	226 / 178	48	
3	092	308	393	5	116 / 68	48	173	561	474	5	197 / 149	48	
4	102	845	403	5	126 / 78	48	184	943	485	5	208 / 160	48	
	119	210	420	5	143 / 95	48	172	679	473	5	196 / 148	48	
6	112	671	413	5	135 / 89	46	187	340	488	5	212 / 163	49	
7	116	720	417	5	139 / 93	46	115	676	416	5	139 / 92	47	
8	079	543	380	5	103 / 54	49	167	253	468	5	190 / 144	46	
9	124	205	425	5	149 / 99	50	138	365	439	5	163 / 113	50	
10	144	790	445	5	150 / 138	12	128	563	529	5	134 / 122	12	
TOTAL	1142	737					1668	578	/				
							1142	737					
DIFF/ELEV USBM 1975							525	841	/				USBM 1975 (RR SPK in N SIDE AVE "Q" & 286±' E of 110th ST. E. SEE FB 2844-31

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM USBM 1975 TO BM109-4
USBM1975													USBM1975 (RR SPK in N side # PP
1	125	363	426	5	131 / 119	12	141	820	442	5	147 / 135	12	AVE Q & 286' E OF 110th ST E
2	141	905	442	5	166 / 116	50	127	985	428	5	152 / 102	50	SEE FB 2844-31
3	164	997	465	5	188 / 140	48	083	948	384	5	107 / 60	47	
4	118	881	419	5	141 / 95	46	112	981	413	5	135 / 89	46	
5	187	160	488	5	212 / 163	49	113	170	414	5	137 / 90	47	
6	172	361	473	5	195 / 149	46	116	750	417	5	141 / 91	50	
7	185	120	486	5	209 / 161	48	096	358	397	5	120 / 72	48	
8	161	994	462	5	184 / 138	46	088	868	389	5	123 / 64	49	
+1 9	301	710	502	5	226 / 176	50	152	848	453	5	175 / 130	45	
10	195	941	496	5	219 / 171	48	094	645	395	5	118 / 71	47	
TOTAL	1655	332	/				1129	373					
	1129	373	/										
DIFF/ELEV	525	959											
BM109-4													BM109-4
													PALMDALE BLVD & 110th ST. E
													SEE FB 2844-10

F.B. 2845 PG. 198

JOB NO. 0301.02

SURVEY OF L. A. CO. PRECISE LEVEL NET

SURVEY BY ACG NOTES ACG

INDEXED R. E. OTT DATE

WEATHER Windy INST. NO. 75234

TIME 2:00 ROD NO. 9569

NOTES CHKD DATE

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.

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

SURVEY BY A. C. GUIZADO WEATHER Clear INST. NO. 75[illegible]

NOTES BY ACG DATE 5-9-61 TIME 11:10 to ROD NO. [illegible]

INDEXED B.E. OTT DATE NOTES CHKD DATE

F.B. 2845 PG. 19[illegible]

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA		DESCRIPTION AND REMARKS FROM LM 109-6 TO USBM 1976
BM109-6													BM109-6
1	107	323	408	5	130 / 84	46	196	888	497	5	220 / 173	47	PALMDALE BLVD & 120th ST E
													SEE FB 2844-12
2	142	268	443	5	164 / 119	45	189	391	490	5	213 / 166	47	
3	097	340	398	5	121 / 73	48	193	413	494	5	216 / 171	45	
4	097	930	398	5	120 / 73	47	201	880	502	5	225 / 178	47	⊼ GE COOK
	121	335	422	5	144 / 98	46	188	908	489	5	212 / 165	47	
6	104	870	405	5	127 / 81	46	153	382	454	5	177 / 130	47	
7	115	775	416	5	139 / 91	46	180	873	481	5	202 / 158	44	
8	095	338	396	5	118 / 72	46	196	723	497	5	220 / 172	48	
9	125	640	426	5	141 / 109	32	157	705	458	5	172 / 142	30	
10	114	778	415	5	124 / 104	20	125	620	426	5	135 / 114	21	
TOTAL	1122	597					1784	783	/				
							1122	597					
							662	186	/				
DIFF/ELEV USBM 1976													USBM 1976 (USGS LS 31 1929) AVE Q & 120th ST E. SEE FB 2844-32

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM USBM 1976 TO BM109-6
USBM 1976													USBM 1976 (USGS LS31 1929
1	127	480	428	5	137 / 116	21	116	625	417	5	126 / 106	20	AVE Q & 120th ST E
													SEE FB 2844-32
2	164	325	465	5	180 / 149	31	132	163	433	5	148 / 117	31	
3	198	550	499	5	222 / 174	48	100	531	401	5	123 / 77	46	
4	191	895	492	5	214 / 168	46	124	925	425	5	147 / 101	46	
5	156	980	457	5	178 / 134	44	105	303	406	5	129 / 81	48	
6	186	270	487	5	211 / 162	49	119	023	420	5	141 / 97	44	
7	194	471	495	5	217 / 172	45	093	721	394	5	118 / 69	49	
8	199	300	500	5	222 / 176	46	102	791	403	5	126 / 78	48	
9	192	131	493	5	215 / 169	46	144	878	445	5	167 / 122	45	
10	194	975	495	5	218 / 171	47	104	393	405	5	127 / 81	46	
TOTAL	1806	377					1144	353					
	1144	353											
DIFF/ELEV	662	024											
BM109-6													BM109-6
													PALMDALE BLVD & 120th ST E
													SEE FB 2844-12

F.B. 2845 PG. 200

SURVEY OF L. A. CO. PRECISE LEVEL NET

SURVEY BY ACG NOTES ACG

INDEXED H. E. OTT DATE

JOB NO. 0301.02

WEATHER CLEAR INST. NO. N3 75234

TIME 11:45 to ROD NO. 91 & 92

NOTES CHKD. DATE

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.

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

SURVEY BY F.C. GUIZADO WEATHER CLEAR INST. NO. 75236

NOTES BY ACG DATE 5/9/61 TIME 10:00 to 10:25 ROD NO. 95890

INDEXED DATE NOTES CHKD DATE

F.B. 2845 PG. 201

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA		DESCRIPTION AND REMARKS FROM BM109-18 TO USBM 1954
BM109-18													BM109-18
1	127	283	428	5	150 / 104	46	139	892	440	5	162 / 116	46	165th ST. E. & AVE 'S'
													SEE FB 2844-24
2	149	391	450	5	172 / 126	46	167	363	468	5	190 / 144	46	
3	118	902	419	5	141 / 95	46	171	530	472	5	194 / 148	46	⊼ GE COOK
4	143	278	444	5	166 / 120	46	117	223	418	5	140 / 94	46	
	132	505	433	5	155 / 109	46	152	740	453	5	175 / 129	46	
6	130	552	431	5	153 / 107	46	140	631	441	5	163 / 117	46	
7	168	341	469	5	191 / 145	46	128	460	429	5	151 / 106	46	
8	155	490	456	5	178 / 132	46	145	710	446	5	168 / 122	46	
9	148	780	448	5	163 / 133	30	154	552	455	5	169 / 139	30	
10	144	148	445	5	158 / 130	28	118	070	419	5	132 / 104	28	
TOTAL	1418	670				426	1436	171	/			426	
							1418	670	/			426	
DIFF/ELEV USBM 1954							17	501				852	Meters
													USBM 1954 (LS 20 1929)
													AVE 'S' & 170th St. E.
													SEE FB 2844-34

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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 USBM 1954 TO BM 109-18
USBM 1954													USBM 1954 (6.5.20 1929)
1	115	078	416	5	129 / 101	28	141	135	442	5	156 / 127	29	AVE "S" & 170th ST. E
2	157	415	458	5	172 / 142	30	151	145	452	5	166 / 136	30	SEE FB 2844-34
3	148	676	449	5	171 / 136	45	158	805	459	5	181 / 135	46	
4	129	341	430	5	152 / 107	45	168	935	469	5	191 / 145	46	
5	140	741	441	5	163 / 117	46	131	321	432	5	154 / 108	46	
6	160	591	461	5	183 / 137	46	139	851	440	5	162 / 116	46	
7	118	710	419	5	182 / 94	48	145	461	446	5	167 / 124	43	⊼ G.E. Cook 5-9-61
8	171	678	472	5	193 / 148	45	117	120	418	5	140 / 94	46	
9	169	065	470	5	192 / 146	46	153	392	454	5	176 / 130	46	
10	140	052	441	5	163 / 117	46	126	785	427	5	149 / 103	46	
TOTAL	1451	347	/			425	1433	950				424	
	1433	950										425	
[illegible]	17	397	/									849	Meters
[illegible]													BM 109-18
													165th ST. & AVE "S"
													SEE FB 2844-24

F.B. 2825 PG. 202 JOB NO. 230102

SURVEY OF L. A. CO. PRECISE LEVEL NET

SURVEY BY ACG NOTES ACG

INDEXED [illegible] DATE

WEATHER CLEAR INST. NO. 75234

TIME 1025-1050 ROD NO. 95596

NOTES CHKD DATE

76P526-CE 379—10-57

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

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 LINE

Chief of Party F. E. Brooks Weather Clear Inst. No. 15066
Notes by F. E. Brooks Time 10:55 Rod No. 19-20

Name L.A. Co. Precise Level Net
Job No. 0301.12
From BM 109-20 To U.S. BM 1955
Date 11 April 1961
Indexed H. E. Ott

Number of Station	BACKSIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	B.S. Rod and Temp.	FORESIGHT Thread Readings	Mean	Thread Intervals	Sum of Intervals	DESCRIPTION AND REMARKS
	4.113		.045		#19	3.498		.046		BM 109-20
	4.068		.045			3.452		.047		165 Th St. E. at Ave T
	4.023		.090			3.405		.093		see F.B. 2844-26
	12.204	4.068		.090	68°	10.355	3.452		.093	
										U.S. BM 1955
										165 Th St. E of Ave T
										see F.B. 2844-26
										Summation of Run
										From B.M. 109-20
										To ~~B.M.~~ U.S. BM 1955
										Total Backsights = + 4.068
										Total Foresights = − 3.452
										Diff. Elev. = + 0.616
										Backsight stadia = .090
										Foresight Stadia = .093
										Total Stadia = .183
										= .01 mi.

F.B. 2854 P.G. 203

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

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 LINE

Chief of Party [illegible]ooks Weather Clear Inst. [illegible] 15066 [illegible] L.A. Co. Precise Level Net
Notes by [illegible] F. E. Br[illegible] Time [illegible]:40- Rod [illegible]19-20 Job No. 0301.02
From U.S. B.M. 1955 To BM 109-20
Date 10 April 1961
Indexed H. E. Ott

28435

Number of Station	BACKSIGHT Thread Readings	BACKSIGHT Mean	BACKSIGHT Thread Intervals	BACKSIGHT Sum of Intervals	B. [illegible] Temp.	FORESIGHT Thread Readings	FORESIGHT Mean	FORESIGHT Thread Intervals	FORESIGHT Sum of Intervals	DESCRIPTION AND REMARKS
	3.754		.04[illegible]		#10	4.[illegible]		.047		U.S. B.M. 1955
	3.[illegible]		.0[illegible]			4.325		.047		165th St. E. and Ave T
	3[illegible]		.0[illegible]			4.278		[illegible]		See F.B. 2844-26
	11[illegible]	[illegible]08			[illegible]740	12.975	4.325		094	
										BM 109-20
										165th St. E. and Ave T
										See F.E. 2844-26
										π Rodriguez
										Summation of Run
										From B.M.
										To B.M.
										Total Backsights = + 3.708
										Total Foresights = − 4.325
										Diff. Elev. = − 0.617
										Backsight stadia = .091
										Foresight Stadia = .094
										Total Stadia = .185
										= .01 mi

F.B. 2845 P.G. 204