Recorded by
Work

Survey of L.A. Co. Precise Level Net
JN 0301.02 Tape Std °F
Surveyed by E. E. Brooks
Notes E. E. Brooks Date Oct - Nov 64
Indexed by C. J. GALLI JAN 1 5 1965

F. B. 3790 Pg. 5

J.N. 0301.02

Co. PRECISE LEVEL NET

LINE No 21

RERUN

COMPUTATION

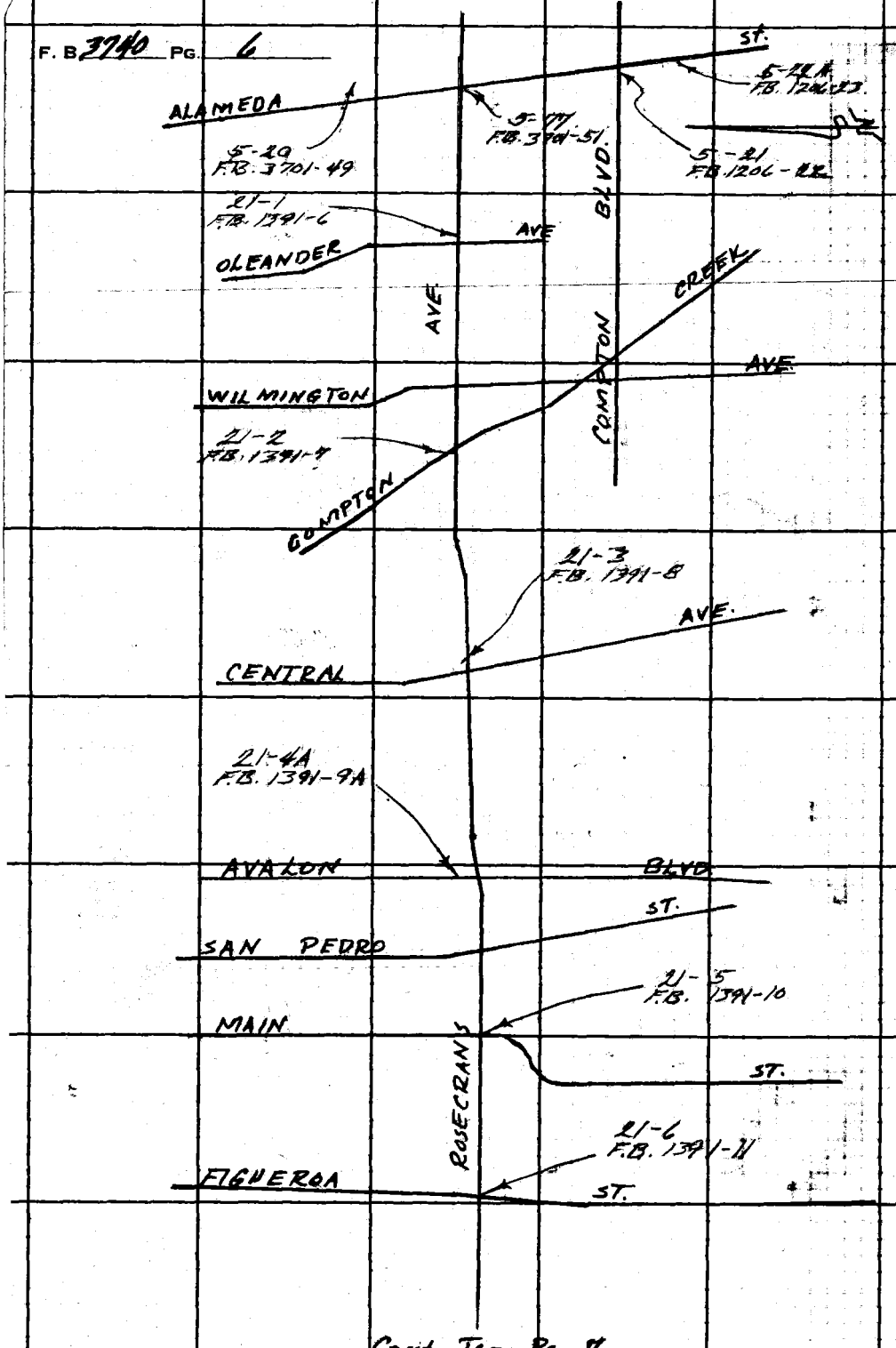
GARDENA - MANHATTAN BEACH - HERMOSA BEACH - REDONDO BEACH - TORRANCE

Vermont Ave, The Strand, Harbor Ave, Harbor Blvd., Esplanade, Ave I and Pacific Coast Hwy.

FE Brooks
KM Kopp
JM Maldonado
ML Bastian
RM Mathur
JWS Moore

Not microfilmed

F. B. 3740 PG. 6



Cont. Top Pg 7

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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 E. E. Brooks
Notes E. E. Brooks Date Oct-Nov 64
Indexed G. J. GALLI

F. B. 3940 PG. 7

Cont Bot Pg 6

VERMONT AVE.

21-9
FB. 1391-12

21-8
FB. 1391-13

NORMANDIE AVE.

21-9A
FB. 1391-14A

WESTERN AVE.

21-10
FB. 1391-15

VAN NESS AVE.

21-11A1
FB 3702-27

CRENSHAW BLVD.

21-12A
FB. 3702-28

VULCAN AVE.

21-13A
FB 1391-17A

ROSECRANS

PRAIRIE AVE.

21-14
21-14A
21-14B
FB. 3702-31

21-15
21-15A
21-15B
FB 3702-33

HAWTHORNE BLVD.

Cont To Pg 8

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76F3095 CE #310 8-62

F. B. 3740 PG. 8

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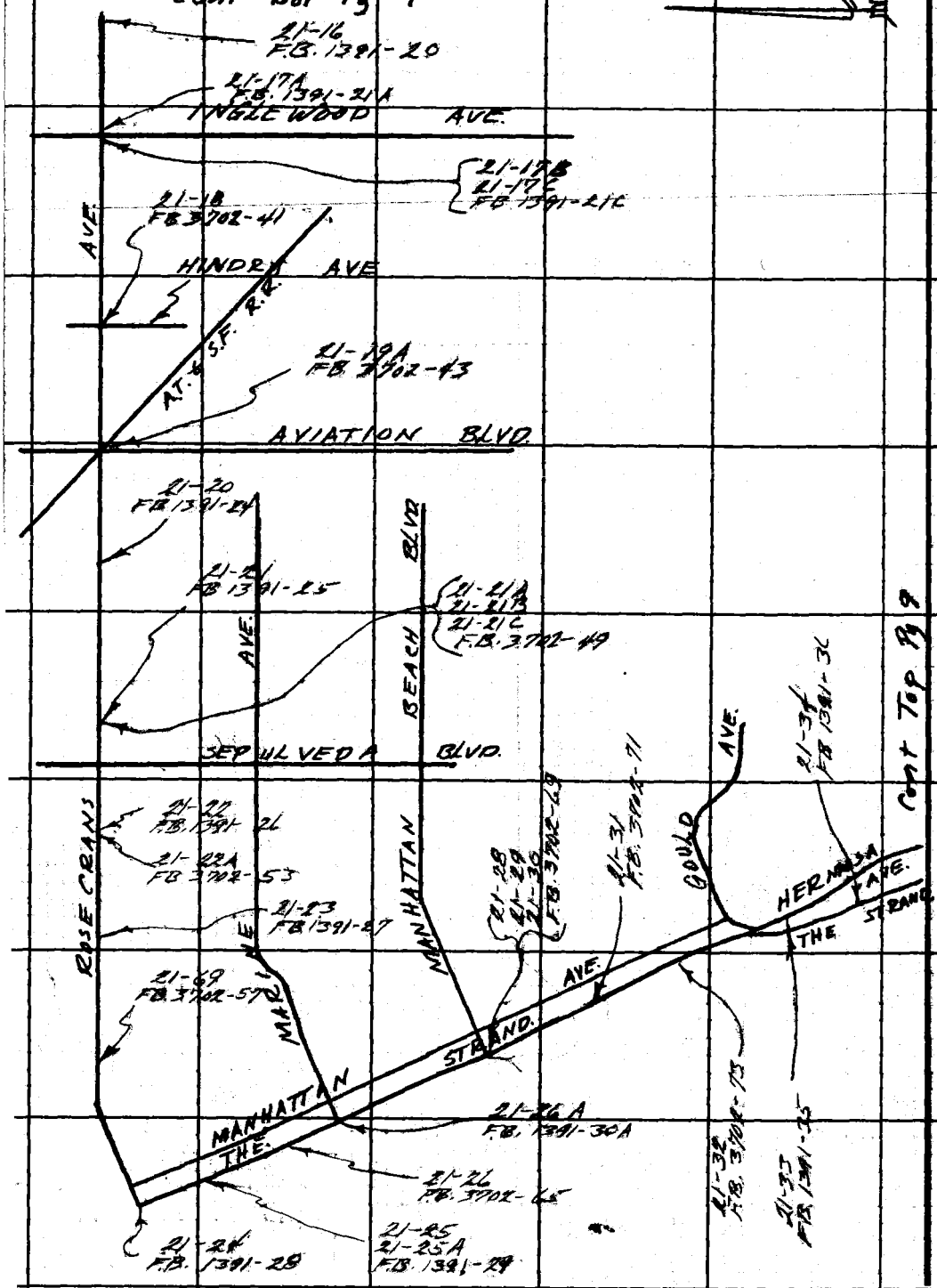

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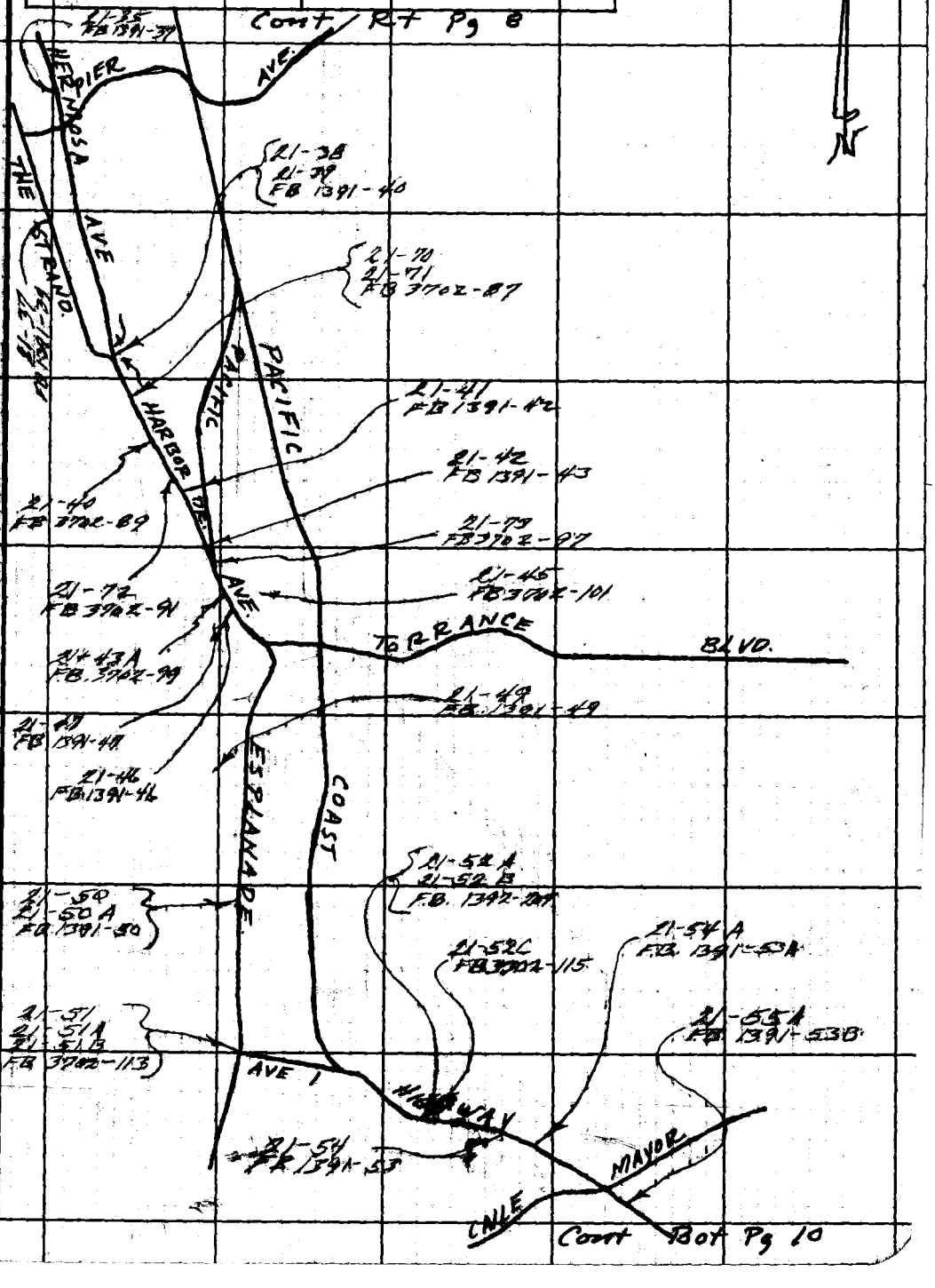
Notes Ck'd by	Survey of L.A. Co. Precise Level Net
Map No.	JN 0301.02 Tape Std °F
Office Work	Surveyed by E. E. Brooks
Checked	Notes E. E. Brooks Date Oct-Nov 64
Date	Indexed C. J. GALLI

F. B. 3740 Pg. 9



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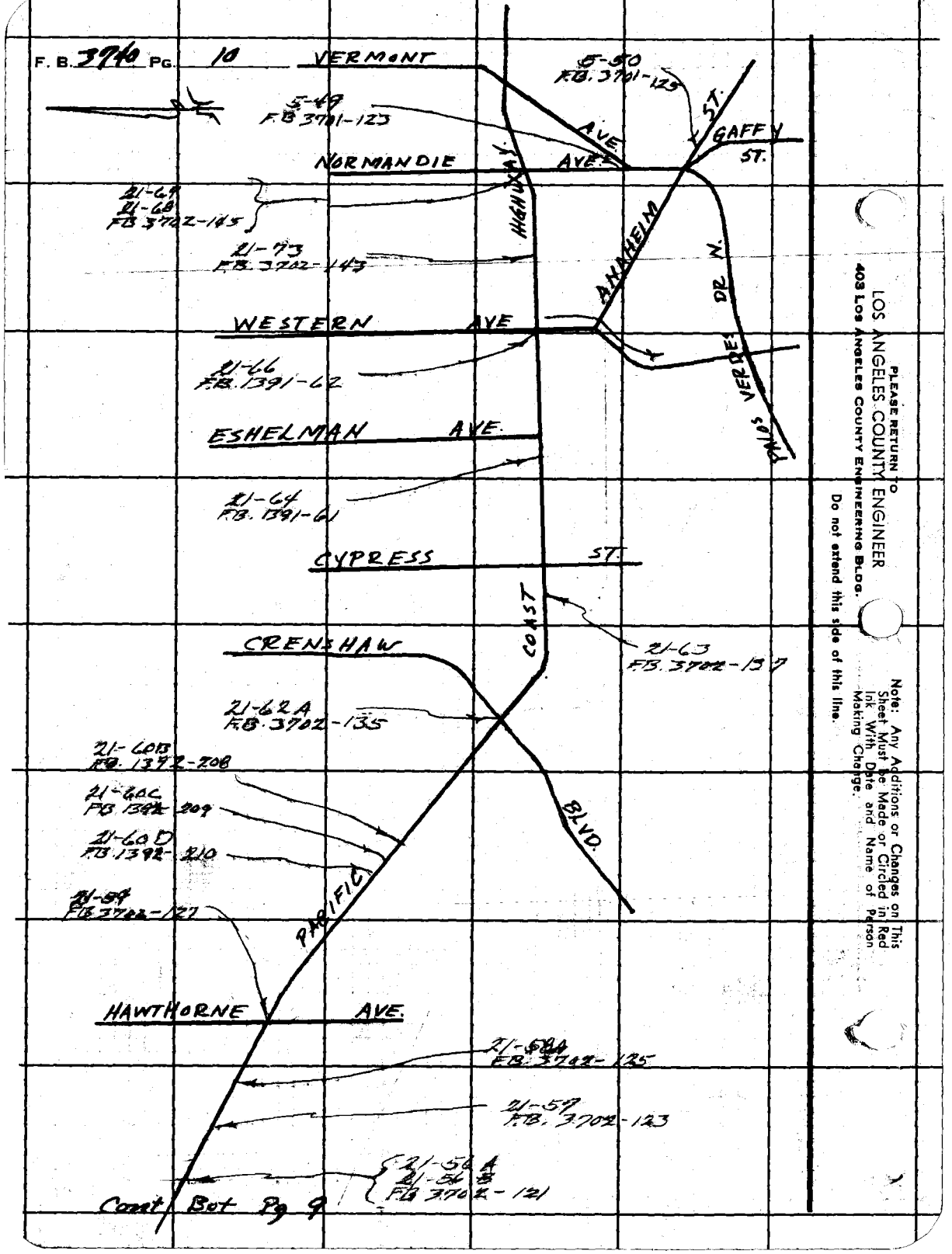
76F3009 CE #310 6-62

F. B. 3740 PG. 10



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76P526 CE # 308 3-61

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STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM5-22A TO BM5-21
BM5-22A				192				208	BM5-22A
1	171	947	472 5	150 42	187	947	488 5	166 42	Alameda St. and Myrrh St.
				198				172	
2	176	425	477 5	154 44	150	378	451 5	128 44	See F.B. 1206-23
				181				173	
3	155	631	456 5	129 52	147	878	448 5	121 52	π K. KAPP
				201				162	
4	174	882	475 5	147 54	136	116	437 5	110 52	
				197				536	
5	184	689	485 5	171 26	222	458	523 5	208 28	
TOTALS	863	574	✓	218	844	777	✓	218	✓
	844	777	✓					218	✓
DIFF. ELEV.	+ 18	797	✓ Cm					436	METERS
BM 5-21									BM 5-21 ALAMEDA St. AND COMPTON BLVD. SEE. F.B. 1206-22

Summation of Run
From B.M. 5-22A
To B.M. 5-21

Total Backsights = + 863.574 ✓
Total Foresights = − 844.777 ✓
Diff. Elev. = + 18.797 ✓

Backsight stadia = 218 ✓
Foresight Stadia = 218 ✓
Total Stadia = 436 ✓ meters

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET
SURVEY BY F. E. Brooks
NOTES BY J. MALDONADO DATE 26 OCT 1964 TIME 8:55 - 9:15 WEATHER OVERCAST INST. NO 96716
INDEXED C. J. GALLI DATE NOTES CHKD [illegible] DATE ROD NO 9-19 JM 5 '65

F.B. 3740 PG. 11

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WEATHER OVERCAST INST. NO. 96716
TIME 11:40 To 12:00 ROD NO. 2-19
NOTES CHKD [illegible] DATE [illegible]

STATION	BACKSIGHT Right Mic.	BACKSIGHT Left	BACKSIGHT Stadia	FORESIGHT Right Mic.	FORESIGHT Left	FORESIGHT Stadia	DESCRIPTION AND REMARKS
							FROM BM 5-21 TO BM 5-22 A
BM 5-21							BM 5-21 Alameda St. and Compton Blvd. See F.B. 1206-22
			231			192	
1	217 240	518 5	203 28	179 662	480 5	166 26	
			162			198	
2	134 793	435 5	108 54	171 631	472 5	144 54	T. K. KAPP
	~~194~~		165				
~~3~~	~~793~~ 793	~~435 5~~	~~108~~			175	
3	139 678	440 5	113 52	149 391	450 5	123 52	
			174			199 ~~44~~	
4	152 238	453 5	130 44	177 750	478 5	155 ~~54~~	
	~~111~~		208			~~208~~	
5	~~187~~ 030	488 5	166 42	~~187 030~~	~~458 5~~	~~166~~	
	187					192	
				171 298	472 5	150 42	
	820 979		220	849 732		218	
BM 5-22							BM 5-22 A Alameda St. and Myrrh St. See F.B. 1206-23

Summation of Run
From B.M. 521
To B.M. 5-22A

Total Backsights = + 820.979
Total Foresights = − 849.732
Diff. Elev. = − 28.753

Backsight stadia = 220
Foresight Stadia = 218
Total Stadia = 438

F.B. 3740 PG. 12 JOB NO. 0301.02
SURVEY OF LA Co. Precise Level Net
SURVEY BY F. E. Brooks NOTES J. MALDONADO DATE
INDEXED C. J. GALLI

76P526 CE # 308 3-61

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STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA
BM5-21								
1	204	146	505 5	227 181 46	152	861	453 5	176 128 48
2	169	810	470 5	195 143 52 98	155	720	456 5	181 129 52 100
3	176	950	477 5	208 144 64 162	151	295	452 5	183 119 64 164
4	169	542	470 5	196 142 54 216	150	885	451 5	177 123 54 218
5	166	703	467 5	192 140 52 268	176	113	477 5	204 148 56 274
6	158	938	459 5	186 130 56 324	148	050	449 5	174 122 52 326
7	158	859	459 5	184 132 52 376	132	735	433 5	157 107 50 376
8	161	920	462 5	170 152 18 394	166	140	467 5	176 156 20 396
	1366	868			1233	799		
BM 5-~~77~~ 20A								

DESCRIPTION AND REMARKS

FROM BM5-21 TO BM5-~~77~~ 20A

BM5-21
Alameda St. and Compton Blvd.
See F.B. 1206-22

Kapp

Summation of Run
From B.M. 5-21
To B.M. 5-~~77~~ 20A

Total Backsights = + 1366.868
Total Foresights = − 1233.799
Diff. Elev. = +133.069

Backsight stadia = 394
Foresight Stadia = 396
Total Stadia = 790 meters

BM 5-~~77~~ 20A
Alameda St. and Rosecrans Ave
See F.B. 3701-51

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

SURVEY BY F. E. Brooks

NOTES BY F. E. Brooks DATE 26 Oct 1964

INDEXED C. J. GALLI DATE

WEATHER Overcast INST. NO. 96716

TIME 9:25 - 9:55 ROD NO. 9-19

NOTES CHKD. [illegible] DATE JAN 5 '65

F.B. 3740 PG. 19

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STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA
BM 5-~~77~~ 20A								
1	168	128	469 5	178 / 158 20	163	372	464 5	173 / 153 20
2	131	302	432 5	156 / 106 50 / 70	159	740	460 5	185 / 133 52 / 72
3	150	820	451 5	177 / 123 54 / 124	163	855	464 5	190 / 136 54 / 126
4	175	340	476 5	203 / 147 56 / 180	161	851	462 5	187 / 135 52 / 178
5	149	790	450 5	176 / 122 54 / 234	168	850	469 5	195 / 141 54 / 232
6	150	940	451 5	182 / 118 64 / 298	175	608	476 5	207 / 143 64 / 296
7	155	380	456 5	181 / 129 52 / 350	168	597	469 5	194 / 142 52 / 348
8	153	182	454 5	176 / 130 46 / 396	206	030	507 5	229 / 183 46 / 394
	1234	882			1367	903		
BM 5-21								

DESCRIPTION AND REMARKS

FROM BM5-~~77~~ 20A TO BM 5-21

BM ~~5-77~~ 5-20A
Alameda St. and Rosecrans Ave
See F.B. 3701-51

π Kapp

Summation of Run 20A
From B.M. 5-~~77~~
To B.M. 5-21

Total Backsights = + 1234.882
Total Foresights = − 1367.903
Diff. Elev. = − 133.021

Backsight stadia = 396
Foresight Stadia = 394
Total Stadia = 780 meters

BM5-21
Alameda St. and Compton Blvd.
See F.B. 1206-22

F.B. 3740 PG. 14 JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES E. E. Brooks
INDEXED C. J. GALLI DATE

WEATHER Overcast INST. NO. 96716
TIME 11:00 - 11:25 ROD NO. 9-19
NOTES CHKD [signature] DATE 5 '65

76P526 CE # 308 3-61

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STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM5-~~77~~ 20A TO BM5-20
BM5-~~77~~ 20A				186				169	BM ~~5-77~~ 5-20A
1	160	862	461 5	134 52	143	158	444 5	117 52	Alameda St. and
				194				180	Rosecrans Ave.
2	167	167	468 5	140 54	154	553	455 5	128 52	See F.B. 3701-51
				180				162	
3	153	002	454 5	126 54	135	322	436 5	108 54	⊼ K. KAPP
				190				152	
4	158	591	459 5	126 64	121	215	422 5	90 62	
	~~629~~ 639	622 ✓		224	554	248 ✓		220 ✓	
BM 5-20									BM-5-20 ALAMEDA St. 0.15 Mi. S. of Otis ST. SEE F.B. 3701-49

Summation of Run
From B.M. 5-~~77~~ 20A
To B.M. 5-20

FEB

Total Backsights = + ~~629~~ 639.622 ✓
Total Foresights = − 554.248 ✓
Diff. Elev = + ~~75~~ 85.374 ✓

Backsight stadia = 224 ✓
Foresight Stadia = 2.20 ✓
Total Stadia = 4.44 ✓ METERS

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

SURVEY BY F. E. Brooks WEATHER SUNNY INST. NO. 96716

NOTES BY J. MALDONADO DATE 26 Oct 1964 TIME 10:10 To 10:35 ROD NO. 9-19

INDEXED C. J. GALLI DATE NOTES CHKD. [illegible] DATE [illegible] 5 '65

F.B. 3740 PG. 15

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STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM 5-20 TO BM 5-~~27~~ 20A
BM 5-20				156				194	BM 5-20 (U.S.C.&G.S. Q 766)
1	124	671	425 5	92 64	161	959	462 5	128 66	ALAMEDA ST. 0.15 MI. S. OF
				163				181	OTIS ST. SEE F.B. 3701-49
2	136	144	437 5	109 54	154	560	455 5	127 54	
				185				195	K. KAPP
3	155	848	456 5	129 56	167	800	468 5	139 56	
				171				188	
4	144	457	445 5	117 54	162	211	463 5	136 52	
	561	120		228	646	530		228	
BM 5-~~27~~ 20A									BM 5-~~27~~ 20A ALAMEDA ST. & ROSECRANS F.B. 3701-51

Summation of Run
From B.M. 5-20
To B.M. 5-~~27~~ 20A

Total Backsights = 561.120
Total Foresights = 646.530
Diff. Elev. = - 85.410

Backsight stadia = 228
Foresight Stadia = 228
Total Stadia = 456 meters

WEATHER OVERCAST INST. NO. 9C716
TIME 10:40 TO 10:55 ROD NO. 9-19
NOTES CHKD [signature] DATE JAN 5 '65

F.B. 3740 PG. 16
JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES J. MALDONADO
INDEXED G. J. GALLI DATE

76P526 CE # 308 3-61

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STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA
20A BM5-~~77~~								
1	215	642	516 5	238 192 46	192	872	493 5	215 169 46
2	152	000	453 5	179 125 54 100	178	192	479 5	206 150 56 102
3	149	428	450 5	174 124 50 150	161	308	462 5	186 136 50 152
4	177	504	478 5	208 146 62 212	160	618	461 5	193 127 66 218
5	159	011	460 5	185 133 52 264	146	590	447 5	170 122 48 266
6	156	261	457 5	182 130 52 316	166	830	467 5	190 142 48 314
7	163	820	464 5	187 139 48 364	151	592	452 5	177 125 52 366
8	173 ~~174~~	733	474 5	203 143 60 424	176	750	477 5	205 147 58 424
~~4~~	1347	399			1334	752		
BM 21-1								

DESCRIPTION AND REMARKS

FROM BM 5-~~77~~ 20A TO BM 21-1

BM 5-~~77~~ 20A
Alameda St. & Rosecrans Ave
See FB 3701-51

π Kapp

Summation of Run
From B.M. 5-~~77~~ 20A
To B.M. 21-1

Total Backsights = + 1347.399
Total Foresights = − 1334.752
Diff. Elev. = +12.647

Backsight stadia = 424
Foresight Stadia = 424
Total Stadia = 848 meters

BM 21-1
Rosecrans Ave and Oleander St.
See F.B. 1391-6

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

SURVEY BY F. E. Brooks

NOTES BY F. E. Brooks DATE 26 Oct 1964

INDEXED C. J. GALLI DATE

WEATHER Hazy

TIME 1:20 - 2:00

NOTES CHKD [illegible] DATE JAN 5 '65

INST. NO. 96716

ROD NO. 9-19

F.B. 3740 Pg. 19

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STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA
BM 21-1								
1	176	062	477 5	206 / 146 60	172	831	473 5	201 / 143 58
2	152	068	453 5	177 / 127 50 / 110	164	992	465 5	189 / 139 50 / 108
3	167	442	468 5	192 / 142 50 / 160	156	278	457 5	181 / 131 50 / 158
4	147	350	448 5	172 / 122 50 / 210	160	522	461 5	185 / 135 50 / 208
5	161	575	462 5	194 / 128 66 / 276	176	640	477 5	207 / 145 62 / 270
6	161	021	462 5	184 / 138 46 / 322	151	011	452 5	177 / 125 52 / 322
7	178	222	479 5	206 / 150 56 / 378	156	068	457 5	183 / 129 54 / 376
8	202	538	503 5	224 / 180 44 / 422	220	640	521 5	243 / 197 46 / 422
	1346	278			1358	982		
BM 5-~~77~~ 20A								

DESCRIPTION AND REMARKS

FROM BM 21-1 TO BM 5-~~77~~ 20A

BM 21-1
Rosecrans Ave and Oleander Ave
See F.B. 1391-6

T Kapp

Summation of Run
From B.M. 21-1
To B.M. 5-~~77~~ 20A

Total Backsights = + 1346.278
Total Foresights = − 1358.982
Diff. Elev. = − 12.704

Backsight stadia = 422
Foresight Stadia = 422
Total Stadia = 844 meters

BM 5-~~77~~ 20A
Alameda St. and Rosecrans Ave.
See F.B. 3701-51

15 min time delay for taxpayer between #1 & #2

WEATHER Clear INST. NO. 96716
TIME 10:20 – 11:00 ROD NO. 9-19
NOTES CHKD [illegible] DATE JAN 5 '65

JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY F. E. Brooks NOTES F. E. B.
INDEXED C. J. GALLI DATE

F.B. 3740 PG. 18

76P526 CE # 308 3-61

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STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
BM21-1				224				172	BM21-1
1	193	721	494 5	162 ~~42~~ 62	140	863	441 5	108 64	Rosecrans & Oleander St.
				197				184	
2	168	308	469 5	139 58 120	153	435	454 5	122 62 126	See FB 1391-6
				195				181	
3	168	871	469 5	141 54 174	156	055	457 5	131 50 176	
				177				158	K. KAPP
4	147	088	448 5	117 60 234	127	207	428 5	96 62 238	
				191				179	
5	165	901	466 5	139 52 286	153	710	454 5	127 52 290	
				208				172	
6	176	061	477 5	144 64 350	142	718	443 5	112 60 350	
				192				179	
7	167	636	468 5	142 50 400	154	088	455 5	129 50 400	
				197				192	
8	165	118	466 5	133 64 464	160	328	461 5	128 64 464	
				202				160	
9	159	822	460 5	116 86 550	117	082	418 5	117 86 550	
				155				192	
10	151	012	452 5	147 08 558	188	710	489 5	184 08 558	
	1663	538		558	1494	196		558	
BM 21-2									BM 21-2
									ROSECRANS AVE. & COMPTON CREEK
									SEE F.B. 1391-7

Summation of Run
From B.M. 21-1
To B.M. 21-2

Total Backsights = + 1663.538
Total Foresights = − 1494.196
Diff. Elev. = + 169.342

Backsight stadia = 558
Foresight Stadia = 558
Total Stadia = 1116 METERS

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET
SURVEY BY F. E. Brooks
NOTES BY J. MALDONADO DATE 26 OCT 1964
INDEXED G. I. GALLI DATE
WEATHER SUNNY INST. NO. 96716
TIME 2:00 TO 3:00 ROD NO. 9-19
NOTES CHKD. [illegible] DATE JAN 5 '65
F.B. 7740 PG. 19

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F.B. 3740 PG. 20 JOB NO. 0301.02

SURVEY OF L. A. Co. Precise Level Net

SURVEY BY E. NOTES I. MACDONALD

INDEXED C. J. GALLI DATE

WEATHER SUNNY INST. NO. 96716

TIME 9:30 To 10:20 ROD NO. 9-19

NOTES CHKD. DATE

STATION	BACKSIGHT Right Mic.	BACKSIGHT Left	BACKSIGHT Stadia	FORESIGHT Right Mic.	FORESIGHT Left	FORESIGHT Stadia	DESCRIPTION AND REMARKS
							FROM BM 21-2 TO BM 21-1
BM 21-2			189			152	BM 21-2
1	187 100	488 5	183 06	148 908	449 5	144 08	ROSECRANS AVE. & COMPTON CREEK
			160			198	SEE F.B. 1391-7
2	118 850	419 5	118 84	155 318	456 5	112 86	
			186 90			195 94	
3	153 770	454 5	120 66	164 885	445 5	133 62	
			177 156			192 156	
4	152 944	453 5	127 50	167 435	468 5	142 50	
			175 206			205 206	
5	144 563	445 5	113 62	174 132	475 5	143 62	
			175 268			193 268	
6	150 905	451 5	125 50	167 568	468 5	141 52	
			181 318			198 320	
7	150 319	451 5	119 62	168 384	469 5	138 60	
			180 380			193 380	
8	154 870	455 5	128 52	167 590	468 5	141 52	
			186 432			204 432	
9	155 942	456 5	124 62	175 334	476 5	146 58	
			177 494			226 490	
10	145 891	446 5	113 64	194 853	485 5	162 64	
			558			554	
	1515 154		558	1684 407		554	
BM 21-1							BM 21-1
							ROSECRANS & OLEANDER ST.
							SEE F.B. 1391-6

Summation of Run

From B.M. 21-2

To B.M. 21-1

Total Backsights = + 1515.154

Total Foresights = − 1684.407

Diff. Elev. = − 169.253 Cm.

Backsight stadia = 558

Foresight Stadia = 554

Total Stadia = 112 METERS

76P526 CE # 308 3-61

PLEASE RETURN TO

L[illegible] ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

[illegible]E: ANY ADDITIONS OR CHANGES [illegible] HIS SHEET MUST BE MADE OR C[illegible]LED 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 21-2 TO BM 21-3
BM21-2									BM 21-2 Rosecrans Ave & Compton Creek
1	215	858	516 5	239 191 48	133	527	434 5	158 108 50	
2	208	751	509 5	246 170 76 124	115	930	416 5	151 79 72 122	See FB 1391-7
3	196	889	497 5	222 170 52 176	134	419	435 5	162 106 56 178	⊼ Kapp
4	175	999	476 5	206 144 62 238	115	035	416 5	146 84 62 240	Summation of Run From B.M. To B.M.
5	205	262	506 5	236 174 62 300	106	720 ~~748~~	407 5	137 75 62 302	
6	209	222	510 5	240 178 62 362	110	726	411 5	140 80 60 362	Total Backsights = + 1803.791
7	197	228	498 5	224 170 54 416	111	685	412 5	139 83 56 418	Total Foresights = − 1055.995
8	202	132	503 5	232 172 60 476	95	441	396 5	126 64 62 480	Diff. Elev. = +747.796
9	192	450	493 5	218 166 52 528	1132	512	433 5	158 106 52 532	Backsight stadia = 528
	1803	791			1055	995			Foresight Stadia = 532
									Total Stadia = 1060 meters.
BM21-3									BM 21-3 Rosecrans Ave and Central Ave See F.B. 1391-8

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

SURVEY BY F. E. Brooks

NOTES BY F. E. Brooks DATE 26 Oct 1964

INDEXED C. J. GALLI DATE

WEATHER Hazy-windy INST. NO. 96716

TIME 3:00-3:40 ROD NO. 9-19

NOTES CHKD [illegible] DATE [illegible] 5 '64

F.B. 3740 PG. 24

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. NO. 96716 ROD NO. 9-19 DATE JAN 5 1965

WEATHER Clear TIME 8:35-9:10 NOTES CHKD

JOB NO. 0301.02

SURVEY OF F.A. Co. Precise Level Net

SURVEY BY F. E. Brooks NOTES F. E. Brooks

INDEXED C. J. GALL DATE

F.B. 3740 PG. 27

STATION	BACKSIGHT Right	Mic.	Left		Stadia		FORESIGHT Right	Mic.	Left		Stadia		DESCRIPTION AND REMARKS
													From BM21-3 To BM21-2
BM 21-3													BM21-3 Rosecrans Ave and Central Ave See F.B. 1391-8
1	131	735	432	5	157 105	52	196	570	497	5	222 170	52	
2	98	178	399	5	130 66	64 116	204	659	505	5	236 171	65 119	
3	117	516	418	5	143 91	52 168	199	059	500	5	226 172	54 171	T Kapp
4	103	770	404	5	133 73	60 228	201	857	502	5	231 171	60 231	Summation of Run From B.M. 21-3 To B.M. 21-2
5	107	282	408	5	138 75	63 291	207	008	508	5	238 176	62 293	
6	117	160	418	5	148 86	62 353	194	071	495	5	224 164	60 353	Total Backsights = + 1072.214
													Total Foresights = − 1820.273
													Diff. Elev. = − 748.059
7	151	820	452	5	178 124	54 407	192	866	493	5	219 165	54 407	
8	109	423	410	5	146 72	74 481	206	408	507	5	244 168	76 483	Backsight stadia = 529
													Foresight Stadia = 531
9	135	330	436	5	159 111	48 529	217	776	518	5	241 193	48 531	Total Stadia = 1060 meters
	1072	214					1820	273					
BM 21-2													BM 21-2 Rosecrans Ave and Compton Creek See F.B. 1391-7

76P526 CE # 308 3-61

PLEASE RETURN TO

L ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	MIC.	LEFT.	STADIA	FORESIGHT RIGHT	MIC.	LEFT.	STADIA	DESCRIPTION AND REMARKS
BM21-3				282				152	BM 21-3
1	251	740	552 5	220 62	121	832	422 5	90 62	- Rosecrans Ave &
				209				176	Central Ave
2	181	645	482 5	153 56	148	707	449 5	120 56	
				232 118				184 118	See FB 1391-8
3	204	568	505 5	176 56	157	458	458 5	130 54	
				233 174				176 172	⊼ K. KAPP
4	205	432	506 5	177 56	147	880	448 5	118 58	
				218 230				164 230	
5	191	479	492 5	164 54	137	908	438 5	110 54	
				204 284				172 284	
6	176	438	477 5	148 56	144	181	445 5	116 56	
				209 340				161 340	
7	182	980	483 5	155 54	134	613	435 5	107 54	
				218 394				169 394	
8	189	103	490 5	160 58	139	278	440 5	109 60	
				209 452				149 454	
9	182	508	483 5	155 54	122	092	423 5	95 54	
				214 506				228 ~~54~~ 508	
10	188	811	489 5	162 52	201	775	502 5	174 54	
				139 558				151 562	
11	121	890	422 5	103 36	133	650	434 5	115 36	
				594				598	
TOTAL	2076	594		594	1589	374		598	
BM 21-4A									BM 21-4A ROSECRANS AVE. & AVALON BLVD. SEE F.B. 1391-9A

Summation of Run
From B.M. 21-3
To B.M. 21-4A

Total Backsights = + 2076.594
Total Foresights = − 1589.374
Diff. Elev. = + 487.220

Backsight stadia = 594
Foresight Stadia = 598
Total Stadia = 1192 meters

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

SURVEY BY F. E. Brooks WEATHER Sunny INST. NO. 96716

NOTES BY J. MALDONADO DATE 27 OCT 1964 TIME 11:35 To 12:20 ROD NO. 9-19

INDEXED C. J. GALLI DATE NOTES CHKD. [illegible] DATE [illegible] 5 '65

F.B. 3740 Pg. 23

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

408 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
BM 21-4A									FROM BM 21-4A TO BM 21-3
1	131	735	432 5	149 / 113 36	120 / ~~119~~	132	421 5	138 / 102 36	BM 21-4A ROSECRANS AVE. & AVALON BLVD. SEE F.B. 1391-9A
2	192	961	493 5	218 / 166 52 / 88	179	872	480 5	206 / 152 54 / 90	
3	115	292	416 5	142 / 88 54 / 142	171	611	472 5	198 / 144 54 / 144	Maldonado
4	129	932	430 5	159 / 99 60 / 202	182	728	483 5	211 / 153 58 / 202	
5	126	670	427 5	152 / 100 52 / 254	175	951	476 5	202 / 148 54 / 256	
6	133	800	434 5	161 / 105 56 / 310	166	049	467 5	194 / 138 56 / 312	Summation of Run From B.M. 21-4A To B.M. 21-3
7	133	491	434 5	160 / 106 54 / 364	169	642	470 5	196 / 142 54 / 366	
8	124	802	425 5	152 / 96 56 / 420	180	179	481 5	208 / 152 56 / 422	Total Backsights = + 1471.233 Total Foresights = − 1958.385 Diff. Elev. = − 487.152
9	132	150	433 5	160 / 104 56 / 476	199	133	500 5	229 / 169 60 / 482	
10	142	119	443 5	170 / 114 56 / 532	174	560	475 5	202 / 146 56 / 538	Backsight stadia = 598 Foresight Stadia = 598 Total Stadia = 1196 meters
11	108	281	409 5	141 / 75 66 / 598	238	520	539 5	268 / 208 60 / 598	
TOTAL	1471	233			1958	385			
BM 21-3									BM 21-3 ROSECRANS AVE. & CENTRAL AVE. SEE F.B. 1391-8

F.B. 3740 PG. 24

SURVEY OF ~~F. E. Brooks~~ L. A. Co. Precise Level Net JOB NO. 0301.02

SURVEY BY F. E. Brooks NOTES FE Brooks

INDEXED G. J. GALLI DATE

WEATHER overcast INST. NO. 96716

TIME 10:45 - 11:25 ROD NO. 9-19

NOTES CHKD [signature] DATE JAN 5 '65

76P526 CE # 308 3-61

PLEASE RETURN TO

L[illegible] ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

[illegible]E: ANY ADDITIONS OR CHANGES [illegible] HIS SHEET MUST BE MADE OR [illegible]LED 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 L. E. Brooks DATE 27 Oct 1964 WEATHER Windy Overcast INST. NO. 96716

NOTES BY L. E. Brooks DATE TIME 1:30 – 2:00 ROD NO. 9-19

INDEXED C. J. GALLE DATE NOTES CHKD. [illegible] DATE

F.B. 3740 PG. 25

STATION	BACKSIGHT RIGHT	MIC.	LEFT.	STADIA	FORESIGHT RIGHT	MIC.	LEFT.	STADIA	DESCRIPTION AND REMARKS
									FROM BM21-4A TO BM21-5
BM21-4A									BM21-4A Rosecrans Ave & Avalon Blvd
1	92	901	393 5	114 70 44	240	412	541 5	261 219 42	
2	183	236	484 5	210 156 54 98	260	418	561 5	287 233 54 96	See FB 1391-9A
3	137	495	438 5	166 108 58 156	199	782	500 5	226 172 54 150	π Kapp
4	169	396	470 5	197 141 56 212	149	755	450 5	180 118 62 212	
5	195	788	496 5	224 166 58 290	100	155	401 5	128 72 56 268	
6	185	380	486 5	218 152 66 336	162	268	463 5	195 129 66 334	
7	161	811	462 5	183 139 44 380	117	213	418 5	138 96 42 376	
8	169	460	470 5	184 154 30 410	173	948	474 5	189 157 32 408	
	1295	469			1403	951			
BM21-5									BM21-5 Rosecrans Ave and Main St. See F.B. 1391-10

Summation of Run
From B.M. 21-4A
To B.M. 21-5

Total Backsights = + 1295.467
Total Foresights = − 1403.951
Diff. Elev. = − 108.484

Backsight stadia = 410
Foresight Stadia = 408
Total Stadia = 818 meters

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM BM21-5 TO BM21-4A
BM21-5									BM21-5 (Watts D-12) Rosecrans Ave and Main St. See F.B. 1391-10
1	172	588	473 5	188 156 32	181	443	482 5	198 164 34	
2	123	543	424 5	145 101 44 76	151	372	452 5	173 129 44 78	π Maldonado
3	153	181	454 5	186 120 66 142	180	581	481 5	213 147 66 144	
4	91	412	392 5	120 62 58 200	166	537	467 5	195 137 58 202	
5	128	607	429 5	156 100 56 256	168	021	469 5	194 142 52 254	
6	198	301	499 5	228 168 60 316	129	980	430 5	158 100 58 312	
7	240	346	541 5	266 214 52 368	160	288	461 5	188 132 56 368	
8	224	410	525 5	247 201 46 414	85	546	386 5	108 62 46 414	
	1332	388			1223	768			
BM21-4A									BM21-4A Rosecrans Ave and Avalon Blvd. See F.B. 1391-9A

Summation of Run
From B.M. 21-5
To B.M. 21-4A

Total Backsights = + 1332.388
Total Foresights = − 1223.768
Diff. Elev. = + 108.620

Backsight stadia = 414
Foresight Stadia = 414
Total Stadia = 828 Meters

F.B. 3740 PG. 26

JOB NO. 0301.02

SURVEY OF EA Co. Precise Level Net

SURVEY BY E. E. Brooks NOTES K. M. Kapp

INDEXED C. J. GALLI DATE

WEATHER Cloudy INST. NO. 96716

TIME 9:50-10:35 ROD NO. 9-19

NOTES CHKD [illegible] DATE 6 '63

76P526 CE # 308 3-61

PLEASE RETURN TO

L[illegible] ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

N[illegible]E: ANY ADDITIONS OR CHANGES [illegible] HIS SHEET MUST BE MADE OR C[illegible]LED 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 BM21-5 TO BM21-6
BM21-5				295				27 ½	BM21-5 (Watts D-12[illegible])
1	278	890	579 5	261 34	9	670	310 5	9 36	Rosecrans Ave &
				201				184	Main St.
2	173	272	474 5	145 56 90	155	173	456 5	126 58 94	
				172				244	See FB 1391-10
3	140	775	441 5	108 64 154	215	502	516 5	186 58 152	
				129				268	⊼ K. KAPP
4	97	498	398 5	65 64 218	234	358	535 5	200 68 220	
				174				222	
5	148	300	449 5	122 52 270	197	937	498 5	172 50 270	
				163				268	
6	132	750	433 5	101 62 332	237	525	538 5	206 62 332	
				90				266	
7	59	188	360 5	28 62 394	238	763	539 5	210 56 388	
				100				243	
8	83	432	384 5	66 34 428	224	382	525 5	205 38 426	
TOTAL	1114	105		428	1513	310		426	
BM 21-6									BM 21-6 (Watts C-12B) ROSECRANS AVE. & FIGUEROA St. SEE F.B. 1391-11

Summation of Run
From B.M. 21-5
To B.M. 21-6

Backsight stadia = 428
Foresight Stadia = 426
Total Stadia = 854 METERS

Total Backsights = + 1114.105
Total Foresights = − 1513.310
Diff. Elev. = − 399.205 CENTIMETERS

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

SURVEY BY C. E. Brooks

NOTES BY J. MALDONADO DATE 27 OCT 19

INDEXED C. J. GALLI DATE

WEATHER CLOUDY INST. NO. 96716

TIME 2:10 TO 2:30 ROD NO. 9-19

NOTES CHKD. [illegible] DATE JAN 6

F.B. 3740 PG. 27

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F.B. 3740 PG. 28 JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY E. Brooks NOTES F.E. Brooks

INDEXED C. J. GALL DATE

WEATHER Overcast INST. NO. 96716

TIME 9:15 ROD NO. 9-19

NOTES CHKD. DATE JAN 6 '63

STATION	BACKSIGHT Right	Mic.	Left		Stadia		FORESIGHT Right	Mic.	Left		Stadia		DESCRIPTION AND REMARKS
													From BM21-6 To BM21-5
BM 21-6													BM21-6 (Watts C-12B) Rose crans Ave and Figueroa St. See F.B. 1391-11
1	214	030	515	5	232 196	36	73	338	344	5	91 55	36	
2	225	720	526	5	254 196	58 94	46	772	347	5	76 16	60 96	
3	218	512	519	5	249 187	62 156	113	409	414	5	144 82	62 158	↑ ~~Kapp~~ Maldonado
4	183	018	484	5	208 158	50 206	134	149	435	5	159 109	50 208	
5	227	458	528	5	261 193	68 274	87	741	388	5	119 55	64 242	
6	207	020	508	5	236 178	58 332	130	137	431	5	162 98	64 336	
7	135	220	436	5	165 105	60 392	156	035	457	5	186 126	60 396	
8	10	392	311	5	26 10	16 32 424	~~265~~	~~850~~	~~566~~	~~5~~	~~280~~ ~~256~~ ~~292~~ ~~265~~	~~38~~ ~~426~~ ~~32~~ ~~428~~	
							281	003	582	5			
BM 21-5	1421	370					1022	584					BM 21-5 (Watts D-12) Rose crans Ave and Main St. See F.B. 1391-10

Summation of Run
From B.M. 21-6
To B.M. 21-5

Total Backsights = + 1421.370

Total Foresights = − 1022.584

Diff. Elev. = + 398.786

Backsight stadia = 424

Foresight Stadia = 428

Total Stadia = 852 meters

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
BM 21-5	{RE-RUN}								BM 21-5 (Watts D-12) Rosecrans Ave and Main St. See F.B. 1391-10
1	260	696	5 ~~4~~61 5	274 246 28	43 ~~15~~	846 ~~822~~	344 5 ~~316~~ 5	58 28 30 ~~34 12 19 15 38~~	
2	231	400	532 5	257 205 52 80	155	649	456 5	182 128 54 84	T Maldonado
3	145	227	446 5	174 116 58 138	179	962	480 5	206 152 54 138	
4	70	953	371 5	96 44 52 190	194	518	495 5	221 167 54 192	Summation of Run From B.M. 21-5 To B.M. 21-6
5	122	671	423 5	149 95 54 244	197	511	498 5	224 170 54 246	
6	138	621	439 5	165 111 54 298	217 ~~272~~	400	518 5	244 190 54 300	Total Backsights = + 1094.973
7	88	043	389 5	112 64 48 346	248	070	549 5	271 225 46 346	Total Foresights = − 1493.983
8	37	362	338 5	66 8 58 404	25~~6~~7	027	558 5	286 228 58 404	Diff. Elev. = −399.010
	1094	973			1493	983			Backsight stadia = 404
									Foresight Stadia = 404
									Total Stadia = 808 meters
BM 21-6									BM 21-6 (Watts C-12B) Rosecrans Ave and Figueroa St. See F.B. 1391-11

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

SURVEY BY F. E. Brooks WEATHER Cloudy INST. NO. 96716

NOTES BY K. M. Kapp DATE 10-28-64 TIME 11:40-12:20 ROD NO. 9-19

INDEXED C. J. GALLI DATE NOTES CHKD [illegible] DATE JAN 6

F.B. 3940 PG. 28A

F.B. 3740 Pg. 88 B

JOB NO.

SURVEY OF

SURVEY BY NOTES

INDEXED DATE

WEATHER INST. NO.

TIME ROD NO.

NOTES CHKD DATE

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

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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

76P526 CE # 308 3-61

PLEASE RETURN TO

L[illegible] ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

N[illegible]E: ANY ADDITIONS OR CHANGES [illegible] HIS SHEET MUST BE MADE OR C[illegible]LED 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 BM21-6 TO BM21-7
BM21-6									BM21-6 (Watts C-12B) Rosecrans Ave & Figueroa St.
1	150	358	451 5	176 124 52	249	795	550 5	275 223 52	
2	83	653	384 5	12x 83 38x2 76 128	234	755	535 5	272 197 75 127	See FB 1391-11
3	148	102	449 5	174 122 52 180	174	648	475 5	200 148 52 179	π Kapp
4	100	828	401 5	132 68 64 244	285	568	586 5	285 251 34x2 68 247	
5	30	665	331 5	62 30 32x2 64 308	294	130	595 5	294 261 33x2 66 313	
6	38	317	339 5	70 6 64 372	282	808	583 5	282 253 29x2 58 371	
7	45	678	346 5	67 23 44 416	249	672	550 5	270 230 40 411	
	597	597			1771	376			
BM21-7									BM 21-7 (Watts B-12) Rosecrans Ave and Vermont Ave See F.B. 1391-12

Summation of Run
From B.M. 21-6
To B.M. 21-7

Total Backsights = + 597.597
Total Foresights = − 1771.376
Diff. Elev. = − 1173.779

Backsight stadia = 416
Foresight Stadia = 411
Total Stadia = 827 Meters

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

SURVEY BY F. E. Brooks

NOTES BY E. E. Brooks DATE 27 Oct 1964

INDEXED C. J. [illegible] DATE

WEATHER Windy Overcast INST. NO. 96716

TIME 2:45 – 3:15 ROD NO. 9-19

NOTES CHKD. [illegible] DATE [illegible] 6 '65

F.B. 7740 PG. 29

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM BM21-7 TO BM21-6
BM 21-7									BM 21-7 (Watts B-12) Rosecrans Ave and Vermont Ave See F.B. 1391-12
1	244	922	545 5	265 223 42	42	678	343 5	63 21 42	
2	277	803	578 5	277½ 30 247 60 102	31	142	332 5	61½ 30 31 60 102	π Maldonado
3	284	419	585 5	284½ 33 251 66 168	20	861	321 5	52½ 32 20 64 166	
4	276	318	577 5	276½ 34 242 68 236	92	822	393 5	124 60 64 230	
5	170	032	471 5	194 146 48 284	142	978	443 5	169 115 54 284	
6	222	013	523 5	260 184 76 360	47	901	348 5	86½ 39 47 78 362	
7	223	023	524 5	249 197 52 412	146	662	447 5	173 119 54 416	
	1698	530			525	044			
BM 21-6									BM21-6 (Watts C-12B) Rosecrans Ave and Figueroa st. See F.B. 1391-11

Summation of Run
From B.M. 21-7
To B.M. 21-6

Total Backsights = + 1698.530
Total Foresights = − 525.044
Diff. Elev. = +1173.486

Backsight stadia = 412
Foresight Stadia = 416
Total Stadia = 828 Meters

WEATHER Cloudy INST. NO. 96716
TIME 8:40 - 9:05 ROD NO. 9-19
NOTES CHKD [signature] DATE 6 '65

F.B. 3740 PG. 30 JOB NO. 0301.02
SURVEY OF BA Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES K. M. Kapp
INDEXED C. I. GALLI DATE

76P526 CE # 308 3-61

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

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

Do not extend notes this side of this line.

STATION	BACKSIGHT Right	Mic.	Left	Stadia	FORESIGHT Right	Mic.	Left	Stadia	DESCRIPTION AND REMARKS
									From BM21-7 To BM-21-8
BM21-7									BM21-7 (WATTS B-12) Rosecrans Ave & Vermont Ave
1	110	068	411 5	132 88 44	180	362	481 5	180 22+2 158 44	
2	116	078	417 5	144 88 56 100	196	080	497 5	225 167 58 102	See FB 1391-12
3	115	029	416 5	146 84 62 162	204	093	505 5	236 172 64 166	T Maldonado
4	120	247	421 5	155 85 70 232	195	029	496 5	228 162 66 232	Summation of Run From B.M. 21-7 To B.M. 21-8
5	104	794	405 5	131 77 54 286	174	541	475 5	201 147 54 286	
6	135	920	436 5	162 108 54 340	169	038	470 5	196 142 54 340	
7	149	520	450 5	170 128 42 382	147	090	448 5	168 126 42 382	Total Backsights = + 987.189 Total Foresights = − 1450.493 Diff. Elev. = − 463.304
8	134	133	435 5	150 118 32 414	184	260	485 5	200 168 32 414	Backsight stadia = 414 Foresight Stadia = 414 Total Stadia = 828 meters.
	987	189			1450	493			
BM21-8									BM21-8 Rosecrans Ave and ~~Vermont~~ Normandie Ave see F.B. 1391-13

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET
SURVEY BY F. E. Brooks
NOTES BY F. E. Brooks DATE 28 Oct 1961 WEATHER Overcast INST. NO. 9676
INDEXED C. J. GALLI DATE TIME 1:35 - 2:10 ROD NO 9-19
NOTES CHKD DATE JAN 6 '65
F.B. 3740 Pg. 31

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F.B. 3246 PG. 32 JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY F. E. Brooks NOTES K. M. Kapp

INDEXED C. J. GALLI DATE

WEATHER Overcast INST. NO. 92916

TIME 10:35-11:10 ROD NO. 9-19

NOTES CHKD DATE JAN 6 '65

STATION	BACKSIGHT Right Mic.	BACKSIGHT Left	BACKSIGHT Stadia	FORESIGHT Right Mic.	FORESIGHT Left	FORESIGHT Stadia
BM21-8						
1	186 231	487 5	202 170 32	137 296	438 5	153 121 32
2	144 561	445 5	165 123 42 74	146 063	447 5	168 124 44 76
3	165 ~~770~~ 920	466 5	192 138 54 128	132 419	433 5	158 106 52 128
4	169 ~~462~~ 433	470 5	197 141 56 184	100 758	401 5	128 72 56 184
5	193 592	494 5	227 159 68 252	118 321	419 5	152 84 68 252
6	203 732	504 5	235 171 64 316	113 234	414 5	144 82 62 314
7	173 361	474 5 5	200 146 54 370	95 723	396 5	122 68 54 368
8	174 151	475 5	174 1/2 152 22 44 414	104 138	405 5	126 82 44 412
	1410 981			947 952		
BM21-7						

DESCRIPTION AND REMARKS

FROM BM21-8 TO BM21-7

BM 21-8
Roscerans Ave and
Normandie Ave
See F.B. 1391-13

T Maldonado

Summation of Run
From B.M. 21-8
To B.M. 21-7

Total Backsights = + 1410.981
Total Foresights = − 947.952
Diff. Elev. = + 463.029

Backsight stadia = 414
Foresight Stadia = 412
Total Stadia = 826 meters

BM21-7 (Walts B-12)
Roscerans Ave and
Vermont Ave
See F.B. 1391-12

76P526B CE # 308 8-59

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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 R. E. Brooks WEATHER Cloudy INST. NO. 96716

NOTES BY K. M. Karp DATE 12-28-64 TIME 2:20-3:30 ROD NO. 9-19

INDEXED C. J. GALLI DATE NOTES CHKD DATE

F.B. 3740 Pg. 33

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA		DESCRIPTION AND REMARKS
													FROM BM 21-8 TO BM 21-9A
BM21-8													BM21-8 Rosecrans Ave & Normandie Ave.
1	171	231	472	5	196 146	50	146	123	447	5	169 123	46	
2	149	983	450	5	176 122	54 104	145	740	446	5	172 118	54 100	See FB 1391-13
3	150	810	451	5	176 124	52 156	175	801	476	5	203 147	56 156	T Maldonado
4	143	927	444	5	170 116	54 210	138	340	439	5	165 111	54 210	Summation of Run From B.M. 21-8 To B.M. 21-9A
5	148	653	449	5	175 121	54 264	139	831	440	5	166 112	54 264	
6	153	853	454	5	180 126	54 318	163	958	464	5	191 135	56 320	
7	171	242	472	5	198 144	54 372	184	196	485	5	214 154	60 380	Total Backsights = + 1089.699
8	1089	699		5			1093	989		5			Total Foresights = − 1093.989
													Diff. Elev. = − 4.290
													Backsight stadia = 372
													Foresight Stadia = 380
													Total Stadia = 752 Meters
BM 21-9A													BM 21-9A Rosecrans Ave. & Western Ave. See F.B. 1391-14A

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
BM 21-9A								
1	17~~7~~ 6	932	47~~8~~ 7 5	204 1/2 / 176 28 / 56	164	260	465 5	192 / 136 56
2	162	455	463 5	190 / 134 ~~141~~ 56 / 112	132 ~~141~~	819 ~~849~~	433 5 ~~442 5~~	160 / 104 ~~164~~ ~~118~~ 56 ~~46~~ ~~102~~
3	115	549	416 5	144 / 86 58 / 170	148	232	449 5	176 / 120 112 / 56 / 168
4	140	818	441 5	167 / 113 54 / 224	146	687	447 5	174 / 118 56 / 224
5	177	500	478 5	204 / 150 54 / 278	147	781	448 5	174 / 120 54 / 278
6	150	051	451 5	177 / 123 54 / 332	145	770	446 5	172 / 118 54 / 332
7	136	236	437 5	159 / 113 46 / 378	169	634	470 5	194 / 144 50 / 382
	1059	541			1055	183		
BM 21-8								

DESCRIPTION AND REMARKS

FROM BM 21-9A TO BM 21-8

BM 21-9A
Rosecrans Ave. &
Western Ave.
See F.B. 1391-14A

π Maldonado

Summation of Run
From B.M. 21-9A
To B.M. 21-8

Total Backsights = + 1059.541
Total Foresights = − 1055.183
Diff. Elev. = + 4.358

Backsight stadia = 378
Foresight Stadia = 382
Total Stadia = 760 Meters

BM 21-8
Rosecrans Ave. &
Normandie Ave.
See F.B. 1391-13

F.B. 3740 PG. 34

JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY E. E. Brooks NOTES K. M. Kapp

INDEXED C. J. GALLI DATE

WEATHER Overcast INST. NO. 96716

TIME 9:20-9:55 ROD NO. 9-19

NOTES CHKD [signature] DATE JAN 6 '65

76P526B CE # 308 8-59

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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.

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

SURVEY BY F. E. Brooks WEATHER Overcast INST. NO. 96716

NOTES BY F. E. Brooks DATE 28 Oct 1964 TIME 2:55 – 3:30 ROD NO. 9-19

INDEXED G. J. GALLI DATE NOTES CHKD DATE

F.B. 3746 Pg. 35

STATION	BACKSIGHT Right	Mic.	Left		Stadia		FORESIGHT Right	Mic.	Left		Stadia		DESCRIPTION AND REMARKS From BM 21-9A To BM 21-10
BM 21-9A													BM 21-9A Rosecrans Ave & Western Ave
1	202	032	503	5	226 178	48	168	391	469	5	192 144	48	
2	131	152	432	5	159 103	56 104	168	130	469	5	196 140	56 104	See FB 1391-14A
3	162	750	463	5	193 131	62 166	156	021	457	5	189 123	66 190	T Maldonado
4	130	118	431	5	160 100	60 226	152	008	453	5	180 124	56 226	Summation of Elev. From B.M. 21-9A To B.M. 21-10
5	156	122	459	5	184 128	56 282	145	338	446	5	173 117	56 282	
6	157	162	458	5	186 128	58 340	143	489	444	5	172 114	58 340	Total Backsights = + 1230.550
7	145	092	446	5	172 118	54 394	156	758	457	5	187 129	54 394	Total Foresights = – 1280.252
8	146	122	447	5	176 116	60 454	190	117	491	5	220 160	60 454	Diff. Elev. = – 49.702
	1230	550					1280	252					Backsight stadia = 454
													Foresight Stadia = 454
													Total Stadia = 908 meters
BM 21-10													BM 21-10 Rosecrans Ave and Van Nuys Ave. See F.B. 1391-13

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 BM21-10 TO BM21-9A
BM 21-10													BM 21-10 Rosecrans Ave and Van Ness Ave. See F.B. 1391-15
1	188	209	489	5	218 / 158	60	145	442	446	5	176 / 114	62	
2	154 / ~~145~~	773	455 / ~~446~~	5	181 / 127	54 / 114	141	788	442	5	165 / 115	50 / 112	π Maldonado
3	141	745	442	5	170 / 112	58 / 172	156	862	457	5	185 / 127	58 / 170	Summation of Run From B.M. 21-10 To B.M. 21-9A
4	145	940	446	5	173 / 117	56 / 228	155	443 / ~~502~~	456	5	187 / 127	56 / 226	
5	157	337	458	5	186 / 128	58 / 286	137	128	438	5	166 / 108	58 / 284	Total Backsights = + 1261.797
6	156	362	457	5	189 / 123	66 / 352	141	793	442	5	172 / 110	62 / 346	Total Foresights = − 1212.216
7	143	160	444	5	170 / 116	54 / 406	133	640	434	5	162 / 104	58 / 404	Diff. Elev. = + 49.581
8	174	271	475	5	198 / 150	48 / 454	200	120	501	5	224 / 176	48 / 452	Backsight stadia = 454
	1261	797					1212	216					Foresight Stadia = 452
													Total Stadia = 906 meters
BM 21-9A													BM 21-9A Rosecrans Ave and Western Ave. See F.B. 1391-14A

F.B. 3740 PG. 36 JOB NO. 0301.02

SURVEY OF F.A.C. Co. Precise Level Net

SURVEY BY E. E. Brooks NOTES F. E. Brooks K M Kapp

INDEXED C. J. GALLI DATE

WEATHER clear INST. NO. 96716

TIME 8:40 – 9:10 ROD NO. 9-19

NOTES CHKD [illegible] DATE [illegible] 6 '65

76P526B CE # 306 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.

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

SURVEY BY F. E. Brooks WEATHER Clear-Windy INST. NO. 26776

NOTES BY F. E. Brooks DATE 29 Oct 64 TIME 11:30 - 12:05 ROD NO. 2-18

INDEXED C. J. GALLI DATE NOTES CHKD [illegible] DATE [illegible] 6 '65

F.B. 3740 Pg. 37

STATION	BACKSIGHT Right	Mic.	Left		Stadia		FORESIGHT Right	Mic.	Left		Stadia		DESCRIPTION AND REMARKS
													From BM 21-10 To BM 21-11A1
BM 21-10													BM 21-10 Rosecrans Ave and Van Ness Ave See F.B. 1391-15
1	188	207	489	5	219 / 126	44	143	198	444	5	165 / 121	44	
2	155	130	456	5	184 / 126	58 / 102	143	730	444	5	173 / 113	60 / 104	π Maldonado
3	159	261	460	5	186 / 132	54 / 156	143	061	444	5	170 / 116	54 / 158	
4	146	882	447	5	173 / 119	54 / 210	83	888	384	5	112 / 54	58 / 216	Summation of Run. From B.M. 21-10 To B.M. 21-11A1
5	122	132	423	5	149 / 96	54 / 264	143	230	444	5	169 / 117	52 / 268	
6	125	990	426	5	153 / 97	56 / 320	128	815	429	5	154 / 102	52 / 320	Total Backsights = + 1194.250 ✓
7	152	710	453	5	178 / 126	52 / 372	105	289	406	5	130 / 80	50 / 370	Total Foresights = − 1019.440 ✓
8	143	938	444	5	150 / 136	14 / 386	128	229	429	5	135 / 121	14 / 384	Diff. Elev. = + 174.810 ✓
	1194	250 ✓					1019	440 ✓					Backsight stadia = 386 ✓
													Foresight Stadia = 384 ✓
													Total Stadia = 770 meters
BM 21-11A1													BM 21-11A1 Rosecrans Ave and Crenshaw Blvd. See F.B. 3702-27

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 Clear INST. NO. 96716
TIME 10:20-10:55 ROD NO. 9-19
NOTES CHKD [illegible] DATE [illegible]

F.B. 3740 PG. 38 JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY F. E. Brooks NOTES F.E.B.
INDEXED [illegible] DATE

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA		DESCRIPTION AND REMARKS
													FROM BM21-11A1 TO BM21-10
BM 21-11A1													BM 21-11A1 Rosecrans Ave and Crenshaw Blvd. See F.B. 3702-27
1	135	163	436	5	142 / 128	14	156	565	457	5	164 / 149	15	
2	119	889	420	5	145 / 94	51 / 65	160	869	461	5	186 / 134	52 / 67	T Bystrum
3	145	282	446	5	172 / 118	54 / 119	143	462	444	5	170 / 116	54 / 121	
4	142	185	443	5	168 / 116	52 / 171	121 / ~~120~~	157	422	5	148 / 94	54 / 175	Summation of Run From B.M. 21-11A1 To B.M. 21-10
5	87	499	388	5	115 / 59	56 / 227	144	780	445	5	171 / 117	54 / 229	
6	139	905	440	5	166 / 112	54 / 281	157	242	458	5	183 / 130	53 / 282	Total Backsights = + 1026.530 ✓
7	112	812	413	5	172 / 112	60 / 341	154	378	455	5	183 / 125	58 / 340	Total Foresights = − 1231.666 ✓
8	143	795	444	5	165 / 121	44 / 385	193	213	494	5	214 / 171	43 / 383	Diff. Elev. = − 205.136 ✓ N.G.
	1026	530 ✓					1231	666 ✓					Backsight stadia = 385 ✓
													Foresight Stadia = 383 ✓
													Total Stadia = 768 meters
BM 21-10													BM 21-10 Rosecrans Ave and Van Ness Ave See F.B. 1391-15

76P526B CE # 308 8-59

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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	
BM 21-11A1												
1	127	211	428	5	134 / 120	14	144	347	445	5	151 / 137	14
2	100	877	401	5	126 / 74	52 / 66	146	139	447	5	172 / 120	52 / 66
3	140	005	441	5	140 / 113	1/2 27 / 54 / 120	137	961	438	5	164 / 110	54 / 120
4	145	198	446	5	171 / 119	52 / 172	123	877	424	5	150 / 96	54 / 174
5	95	191	396	5	123 / 67	56 / 228	152	333	453	5	179 / 125	54 / 228
6	134	749	435	5	161 / 107	54 / 282	150	235	451	5	176 / 124	52 / 280
7	138	228	439	5	168 / 108	60 / 342	156	331	457	5	186 / 126	60 / 340
8	143	052	444	5	165 / 121	44 / 386	188	120	489	5	210 / 166	44 / 384
	1024	511					1199	343				
BM 21-10												

DESCRIPTION AND REMARKS

FROM BM21-11A1 TO BM21-10

BM 21-11A1
Rosecrans Ave. and Crenshaw Blvd.
see F.B. 3702-27

T Maldonado

Summation of Run
From B.M. 21-11A1
To B.M. 21-10

Total Backsights = + 1024.511
Total Foresights = − 1199.343
Diff. Elev. = −174.832

Backsight stadia = 386
Foresight Stadia = 384
Total Stadia = 770 meters

BM 21-10
Rosecrans Ave. and Van Ness Ave
See F.B. 1391-15

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

SURVEY BY F. E. Brooks WEATHER Clear INST. NO. 96716

NOTES BY K.M. Kapp DATE 11-4-64 TIME 8:45-9:10 ROD NO. 9-19

INDEXED G. J. GALLI DATE NOTES CHKD DATE JAN 6 '65

F.B. 3740 Pg. 38A

F.B. 3740 Pg. 383 JOB NO.

SURVEY OF

SURVEY BY NOTES

INDEXED DATE

WEATHER INST. NO.

TIME ROD NO.

NOTES CHKD DATE

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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

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

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 E. E. Brooks WEATHER Windy INST. NO. 96716

NOTES BY K. P. Kapp DATE 12-27-64 TIME 1:25 ROD NO. 9-19

INDEXED G. J. GALLI DATE NOTES CHKD DATE JAN 6 '65

F.B. 3740 Pg. 39

STATION	BACKSIGHT Right	Mic.	Left	Stadia		FORESIGHT Right	Mic.	Left	Stadia		DESCRIPTION AND REMARKS
											From BM21-11A-1 To BM21-12A
BM21-11A1											BM21-11A-1 Rosecrans Ave. & Crenshaw Blvd.
+	~~188~~	~~181~~	~~489~~	~~5~~	~~216 160~~	~~56~~			~~5~~		
											See FB 3702-27
1	192	521	493	5	221 163	58	162	168 ~~170~~	463	5	190 134 56
											T Maldonado
BM21-12A											BM 21-12A Rosecrans Ave. & Crenshaw Blvd. See F.B. 3702-28

Summation of Run
From B.M. 21 - 11A1
To B.M. 21 - 12A

Total Backsights = + 192.521
Total Foresights = − 162.168
Diff. Elev. = +30.353

Backsight stadia = 58
Foresight Stadia = 56
Total Stadia = 114 Meters

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 21-12A TO BM 21-11A1
BM 21-12A													BM 21-12A Rosecrans Ave. & Crenshaw Blvd. See F.B. 3702-28
1	163	138	464	5	191 135	56	193	440	494	5	222 164	58	π Bustrum
BM 21-11A1													BM 21-11A1 Rosecrans Ave. & Crenshaw Blvd. See F.B. 3702-27

Summation of Run
From B.M. 21-12A
To B.M. 21-11A1

Total Backsights = + 163.138 ✓
Total Foresights = − 193.440 ✓
Diff. Elev. = − 30.302 ✓

Backsight stadia = 56 ✓
Foresight Stadia = 58 ✓
Total Stadia = 114 ✓ Meters

F.B. 3740 PG. 40 JOB NO. 0301.02
SURVEY OF E.A. Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES K. M. Kapp
INDEXED C. J. GALLI DATE

WEATHER Clear INST. NO. 96716
TIME 10:15 ROD NO. 9-19
NOTES CHKD [illegible] DATE JUN 6 '63

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
BM21-12A									FROM BM21-12A TO BM21-13A
1	158	301	459 5	175 143 32	218	341	519 5	234 202 32	BM21-12A Rosecrans Ave & Crenshaw Blvd
2	96	870	397 5	122 70 52 84	158	303	459 5	185 131 54 86	See FB 3702-28
3	194	562	495 5	220 166 54 138	165	020	466 5	190 140 50 136	⊼ Maldonado
4	147	663	448 5	174 120 54 192	127	932	428 5	155 99 56 192	Summation of Run From B.M. 21-12A To B.M. 21-13A
5	140	220	441 5	170 110 60 252	126	788	427 5	157 95 62 254	
6	153	608	454 5	180 126 54 306	120	449	421 5	148 92 56 310	Total Backsights = + 1338.988
7	151	451	452 5	179 123 56 362	158	561	459 5	185 131 54 364	Total Foresights = − 1369.948
8	156	820	457 5	180 132 48 410	133	822	434 5	157 109 48 412	Diff. Elev. = − 30.960
9	139	493	440 5	150 128 22 432	160	732	461 5	170 150 20 432	Backsight stadia = 432 ✓ Foresight Stadia = 432 ✓ Total Stadia = 864 ✓ Meters
	1338	988 ✓			1369	948 ✓			
BM21-13A									BM 21-13A Rosecrans Ave. & Yukon Ave. See F.B. 1391-17A

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

SURVEY BY F. E. Brooks WEATHER Windy INST. NO. 96716

NOTES BY K. M. Kapp DATE 10-29-64 TIME 1:35-2:20 ROD NO. 9-19

INDEXED C. J. GALLI DATE NOTES CHKD [illegible] DATE JAN 6 '65

F.B. 3740 Pg. 41

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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 Clear INST. NO. 96716
TIME 9:25 - 10:05 ROD NO. 9-19
NOTES CHKD. DATE JAN 6 '65

F.B. 3740 PG. 42
JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES K. M. Kapp
INDEXED C. J. GALL DATE

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA		DESCRIPTION AND REMARKS
													FROM BM 21-13A TO BM 21-12A
BM 21-13A													BM 21-13A Rosecrans Ave. & Yukon Ave. See F.B. 1391-17A
1	183	421	484	5	202 164	38	166	592	467	5	185 147	38	
2	143	299	444	5	159 127	32 32 70	162	837	463	5	178 146	32 70	T Bustrum
3	145	435	446	5	173 117	56 56 126	141	570	442	5	168 114	54 54 124	Summation of Run From B.M. 21-13A To B.M. 21-12A
4	124	523	425	5	152 96	56 56 182	160	903	461	5	187 132	55 55 179	
5	138	082	439	5	168 108	60 60 242	143	708	444	5	174 112	62 62 241	Total Backsights = + 1405.813 ✓
6	128	403	429	5	156 100	56 56 298	154	673	455	5	181 127	54 54 295	Total Foresights = − 1374.960 ✓
7	163	799	464	5	188 138	50 50 348	188	231	489	5	214 162	52 52 377	Diff. Elev. = + 30.853 ✓
8	162	348	463	5	188 135	53 53 401	99	571	400	5	125 73	52 52 399	Backsight stadia = 432 ✓
9	216	003	517	5	231 200	31 31 432	156	905	457	5	173 139	34 34 433	Foresight Stadia = 433 ✓
	1405	813 ✓					1374	960 ✓					Total Stadia = 865 ✓ Meters
BM 21-12A													BM 21-12A Rosecrans Ave. & Crenshaw Blvd. See F.B. 3702-28

76P526B CE # 308 6-59

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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	
BM21-13A												
1	175	478	476	5	202 / 148	54	141	963	442	5	166 / 116	50
2	[illegible]	[illegible]	[illegible]	5	177 / 121	56 / 110	133	464	434	5	162 / 133	29x2 / 58 / 108
3	150	025	451	5	178 / 122	56 / 166	138	909	439	5	166 / 110	56 / 164
4	159	108	460	5	187 / 131	56 / 222	142	635	443	5	172 / 112	60 / 224
5	156	910	457	5	182 / 130	52 / 274	140	631	441	5	166 / 114	52 / 276
6	159	150	460	5	186 / 132	54 / 328	135	445	436	5	163 / 107	56 / 332
7	151	073	452	5	173 / 129	44 / 372	146	482	447	5	165 / 125	40 / 372
8	156	682	457	5	170 / 142	28 / 400	161	622	462	5	174 / 148	26 / 398
	1257	940					1141	151				
BM 21-14B												

DESCRIPTION AND REMARKS

FROM BM21-13A TO BM21-14B

BM21-13A
Rosecrans & Yukon Ave
See FB 1391-17A

π Maldonado

Summation of Run
From B.M. 21-13A
To B.M. 21-14B

Total Backsights = + 1257.940
Total Foresights = − 1141.151
Diff. Elev. = + 116.789

Backsight stadia = 400
Foresight Stadia = 398
Total Stadia = 798 meters

BM 21-14B (RM#5)
Rosecrans Ave and Prairie Ave
See F.B. 3702-31

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

SURVEY BY F. E. Brooks

NOTES BY F. E. Brooks DATE 29 Oct 1964

INDEXED C. J. GALLI DATE

WEATHER Near Windy INST. NO. 96716

TIME 2:20 – 2:50 ROD NO. 9-19

NOTES CHKD [illegible] DATE [illegible] 6 '65

F.B. 3740 PG. 43

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 21-14B TO BM 21-13A
BM 21-14A													BM 21-14A (RM #5) Rosecrans Ave and Prairie Ave See F.B. 3702-31
1	166	207	467	5	179 / 153	26	156	381	457	5	170 / 142	28	
2	145	337	446	5	166 / 124	42 / 68	157	187	458	5	179 / 135	44 / 72	
3	139	608	440	5	167 / 110	57 / 125	161	149	462	5	187 / 135	52 / 124	$\overline{\wedge}$ Bustrum
4	144	318	445	5	170 / 118	52 / 177	160	728	461	5	186 / 134	52 / 176	Summation of Run From B.M. 21-14B To B.M. 21-13A
5	145	437	446	5	174 / 116	58 / 235	159	693	460	5	188 / 130	58 / 234	
6	136	035	437	5	165 / 109	54 / 289	149	069	450	5	176 / 121	55 / 289	Total Backsights = + 1155.318
7	132	765	433	5	161 / 103	58 / 347	148	975	449	5	176 / 120	56 / 345	Total Foresights = − 1272.415
8	145	611	446	5	171 / 119	52 / 399	179	233	480	5	205 / 153	52 / 397	Diff. Elev. = − 117.097
	1155	318					1272	415					Backsight stadia = 399
													Foresight Stadia = 397
													Total Stadia = 796 meters
BM 21-13A													BM 21-13A Rosecrans Ave and Yukon Ave See F.B. 1391-17A

F.B. 3740 Pg. 44 JOB NO. 0301.02

SURVEY OF E.A. Co. Precise Level Net

SURVEY BY E.E. Brooks NOTES

INDEXED C. J. GALLI DATE

WEATHER Clear INST. NO. 96716

TIME 8:40 - 9:15 ROD NO. 9-19

NOTES CHKD [illegible] DATE JAN 6 '65

76P526B CE # 306 6-59

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 BM21-14B TO BM21-14
BM21-14B													BM21-14B (R.M. #5) Rosecrans Ave & Prarie Ave
1	213	039	514	5	232 194	38	227	987	528	5	246 208	38	See FB 3702-31
													T Maldonado
BM21-14													BM 21-14 (Inglewood G-12B) Rosecrans Ave & Prarie Ave See F.B. 3702-31

Summation of Run
From B.M. 21-14B
To B.M. 21-14

Total Backsights = + 213.039'
Total Foresights = − 227.987'
Diff. Elev. = −14.948'

Backsight stadia = 38'
Foresight Stadia = 38'
Total Stadia = 76' meters

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

SURVEY BY F. E. Brooks WEATHER Clear-windy INST. NO. 96716

NOTES BY F. E. Brooks DATE 29 Oct 64 TIME 3:00 - ROD NO. 9-19

INDEXED C. J. GALLI DATE NOTES CHKD DATE JAN 6 '65

F.B. 3796 Pg. 45

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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 21-14 TO BM 21-14B
BM 21-14	223	111	524	5	242 204	38	208	199	509	5	227 189	38	BM 21-14 (Inglewood G-12B) Rosecrans Ave and Prairie Ave See F.B. 3702-31 Maldonado
BM 21-14B													BM 21-14B (RM#5) Rosecrans Ave and Prairie Ave See F.B. 3702-31

Summation of Run
From B.M. 21-14
To B.M. 21-14B

Total Backsights = + 223.111
Total Foresights = − 208.199
Diff. Elev. = + 14.912

Backsight stadia = 38
Foresight Stadia = 38
Total Stadia = 76 meters

F.B. 3940 PG. 46 JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES E. E. Brooks
INDEXED G. J. GALLI DATE

WEATHER Clear-Windy INST. NO. 9671C
TIME 3:05 ROD NO. 9-19
NOTES CHKD [illegible] DATE JAN 6 '63

76P526B CE # 308 8-59

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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 21-14 TO BM 21-14A
BM21-14													BM21-14 (Inglewood G-12B) Rosecrans & Prarie Ave's
	201	767	502	5	218 / 184	34	167	776	468	5	183 / 151	32	See FB3702-31 π Maldonado
BM21-14A													BM 21-14A (RM#4) Rosecrans Ave and Prarie Ave. See F.B 3702-31

Summation of Run
From B.M. 21-14
To B.M. 21-14A

Total Backsights = + 201.767
Total Foresights = − 167.776
Diff. Elev. = +33.991

Backsight stadia = 34
Foresight Stadia = 32
Total Stadia = 66 meters

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

SURVEY BY F. E. Brooks WEATHER Clear-Windy INST. NO. 96716

NOTES BY F. E. Brooks DATE 29 Oct 64 TIME 3:10 ROD NO. 9-19

INDEXED C. J. GALLE DATE NOTES CHKD [illegible] DATE JAN 6 '65

F.B. 3740 PG. 47

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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 BM21-14A TO BM21-14
BM21-14A													BM21-14A (RM #4) Rosecrans Ave and Pravie Ave.
	169	830	470	5	185 / 153	32	203	798	504	5	219 / 187	32	See F.B. 3702-31
													T Maldonado
BM21-14													BM21-14 (Inglewood G-12B) Rosecrans Ave and Pravie Ave. See F.B. 3702-31

Summation of Run
From B.M. 21-14A
To B.M. 21-14

Total Backsights = + 169.830
Total Foresights = − 203.798
Diff. Elev. = − 33.968

Backsight stadia = 32
Foresight Stadia = 32
Total Stadia = 64 meters

F.B. 3740 PG. 48 JOB NO. 0306 02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES E. E. Brooks
INDEXED C. J. GALLI DATE

WEATHER Clear Windy INST. NO. 9676
TIME 3:15 ROD NO. 919
NOTES CHKD [illegible] DATE JAN 6 '65

76P526B CE # 306 8-59

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LOS ANGELES COUNTY ENGINEER

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

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

SURVEY BY E. E. Brooks WEATHER Clear INST. NO. 96716

NOTES BY K. M. Kerr DATE 10-30-64 TIME 11:15-16:30 ROD NO. 9-19

INDEXED C. J. GALLI DATE NOTES CHKD DATE

F.B. 3740 Pg. 49

STATION	BACKSIGHT Right	Mic.	Left		Stadia		FORESIGHT Right	Mic.	Left		Stadia		DESCRIPTION AND REMARKS
													From BM21-14A To BM21-15
BM21-14A													BM21-14A (RM#4 Rosecrans & Prairie Ave's
1	187	899	488	5	214 160	54	129	335	430	5	157 101	56	
2	166	733	467	5	194 136	56 110	140	691	441	5	168 112	56 112	See FB 3702-31
3	175	442	476	5	200 150	50 160	126	553	427	5	150 102	48 160	& Mr. Bystrum
4	188	759 499	469	5	190 146	44 204	144	420	445	5	168 120	48 208	Summation of Run From B.M. 21-14A To B.M. 21-15
5	154	015	455	5	177 131	46 250	141	234	442	5	182 134	48 256	
6	156	778	457	5	178 134	44 294	138	522	439	5	160 116	44 294	Total Backsights = + 1348.842 Total Foresights = − 1124.253 Diff. Elev. = +224.589
7	172	083	473	5	196 148	48 342	135 124	145 118	436 430	5 5	159 111 158 100	48 342	
8	166	343	467	5	189 143	46 388	168	045	469	5	191 145	46 388	Backsight stadia = 388 Foresight Stadia = 388 Total Stadia = 776 meters
	1348	842					1124	253					
BM21-15													BM21-15 (Inglewood F-12) Rosecrans Ave. & Hawthorne Blvd. See F.B. 3702-33

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM 21-15 TO BM 21-14A
BM 21-15													BM 21-15 (Inglewood F-12 Rosecrans Ave. & Hawthorne Blvd. See F.B. 3702-33
1	165	602	466	5	188 / 142	46	163	638	464	5	186 / 140	46	
2	[illegible]	821	432	5	155 / 107	48 / 94	169	211	470	5	193 / 145	48 / 94	π Maldonado
3	136	302	437	5	158 / 114	44 / 138	154	800	455	5	176 / 132	44 / 138	Summation of Run From B.M. 21-15 To B.M. 21-14A
4	139	637	440	5	161 / 117	44 / 182	151	247	452	5	173 / 129	44 / 182	
5	137	382	438	5	161 / 113	48 / 230	162	550	463	5	184 / 140	44 / 226	Total Backsights = + 1090.899 ✓
6	123	704	424	5	146 / 100	46 / 276	170	962	471	5	186 / 144	52 / 278	Total Foresights = − 1315.729 ✓
7	131	731	432	5	158 / 104	54 / 330	160	241	461	5	188 / 132	56 / 334	Diff. Elev. = −224.830 ✓
8	124	720	425	5	152 / 96	56 / 386	183	080	484	5	210 / 156	54 / 388	Backsight stadia = 386 ✓
	1090	899	✓				1315	729	✓				Foresight Stadia = 388 ✓
													Total Stadia = 774 meters
BM 21-14A													BM 21-14A (RM #4) Rosecrans Ave. & Prairie Ave. See F.B. 3702-31

F.B. 3740 PG. 50

JOB NO. 0301.02

SURVEY OF E.A. Co. Precise Level Net

SURVEY BY F. E. Brooks NOTES F. E. Brooks

INDEXED C. J. GALLI DATE

WEATHER Clear INST. NO. 96716

TIME 11:30-11:55 ROD NO. 9-19

NOTES CHKD [illegible] DATE JAN 6 '63

76P526B CE # 308 8-59

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Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM21-15 TO BM21-15A
BM21-15													BM21-15 (Inglewood F-12) Rosecrans Ave & Hawthorne Blvd
1	188	080	489	5	198 / 178	20	139	037	440	5	150 / 128	22	See FB 3702-33
													T Bustrum
BM21-15A													BM21-15A (RM#3) Rosecrans Ave. & Hawthorne Blvd. see F.B. 3702-34
													Summation of Run From B.M. 21-15 To B.M. 21-15A
													Total Backsights = + 188.080 Total Foresights = − 139.037 Diff. Elev. = + 49.043
													Backsight stadia = 20 Foresight Stadia = 22 Total Stadia = 42 meters

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

SURVEY BY L.E. Brooks WEATHER Clear INST. NO. 26716

NOTES BY F.M. Kapp DATE 10-30-64 TIME 11:55 ROD NO. 8-19

INDEXED C. J. GALLI DATE NOTES CHKD DATE JAN 6 '65

F.B. 3740 Pg. 51

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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 21-15A TO BM 21-15
BM 21-15A													BM 21-15A (RM #3) Rosecrans Ave. & Hawthorne Blvd. See F.B. 3702-34
1	138	600	439	5	149 127	22	187	602	488	5	197 177	20	π Maldonado
BM 21-15													BM 21-15 (Inglewood F-12) Rosecrans Ave. & Hawthorne Blvd. See F.B. 3702-33

Summation of Run
From B.M. 21-15A
To B.M. 21-15

Total Backsights = + 138.600
Total Foresights = − 187.602
Diff. Elev. = − 49.002

Backsight stadia = 22
Foresight Stadia = 20
Total Stadia = 42 Meters

WEATHER Clear INST. NO. 96716
TIME 11:25 ROD NO. 9-19
NOTES CHKD [illegible] DATE JAN 6 '65

JOB NO. 0301.02
SURVEY OF E.A. Co. Precise Level Net
SURVEY BY F. E. Brooks NOTES K. M. Kapp
INDEXED C. J. GALLI DATE

F.B. 3740 PG. 52

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 BM21-15A TO BM21-15B
BM21-15A													BM21-15A (RM#3) Rosecrans Ave. & Hawthorne Blvd.
	133	943	434	5	157 113	40	131	207	432	5	153 108	45	See FB 3702-34 T Bustrum
BM-21-15B													BM 21-15 B (RM#4) Rosecrans Ave and Hawthorne Blvd. See F.B. 3702-34

Summation of Run
From B.M. 21-15A
To B.M. 21-15B

Total Backsights = + 133.943'
Total Foresights = − 131.207'
Diff. Elev. = + 2.736'

Backsight stadia = 40'
Foresight Stadia = 45'
Total Stadia = 85 meters

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

SURVEY BY F. E. Brooks WEATHER Clear Windy INST. NO. 96418

NOTES BY F. E. Brooks DATE 30 Oct 1964 TIME 1:15 ROD NO. 9-19

INDEXED C. J. Gall DATE NOTES CHKD DATE JAN 6 '65

F.B. 3740 Pg. 53

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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 BM21-15B TO BM21-15A
BM 21-15B													BM 21-15B (RM #4 Rosecrans Ave and Hawthorne Blvd. See F.B. 3702-34
1	129	132	430	5	152 106	46	131	799	432	5	152 110	42	π Maldonado
BM21-15A													BM21-15A (RM#3) Rosecrans Ave and Hawthorne Blvd. See F.B. 3702-34

Summation of Run
From B.M. 21 - 15B
To B.M. 21 - 15A

Total Backsights = + 129.132
Total Foresights = − 131.799
Diff. Elev. = − 2.667

Backsight stadia = 46
Foresight Stadia = 42
Total Stadia = 88 meters

F.B. 3740 PG. 54 JOB NO. 0301.02
SURVEY OF E.A. Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES K. M. Kapp
INDEXED C. J. GALLI DATE

WEATHER Clear INST. NO. 96716
TIME 10:55 ROD NO. 9-19
NOTES CHKD [signature] DATE JAN 6 '65

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 ~~BM 21-15B~~ TO ~~BM-21-16~~
BM 21-15B													BM 21-15B (RM#4) Rosecrans Ave & Hawthorne Blvd
1	149	771	450	5	172 / 126	46	115	333	416	5	137 / 92	45	
2	203	457	504	5	227 / 179	48 / 94	44	472	345	5	68 / 20	48 / 93	See FB 3702-34
3	236	488	537	5	255 / 217	38 / 132	68	493	369	5	86 / 49	37 / 130	⊼ Bustrum
4	148	625	449	5	162 / 133	29 / 161	232	451	533	5	246 / 218	28 / 158	✓
	738	341	✓				460	749	✓				
BM 21-16													BM 21-16 (Inglewood F-12A) Rosecrans Ave and Mansel Ave See F.B. 1391-20

Summation of Run
From B.M. 21-15B
To B.M. 21-16

Total Backsights = + 738.341 ✓
Total Foresights = − 460.749 ✓
Diff. Elev. = +277.592 ✓

Backsight stadia = 161 ✓
Foresight Stadia = 158 ✓
Total Stadia = 319 meters

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

SURVEY BY E. E. Brooks

NOTES BY F. E. Brooks DATE 30 Oct 1964

INDEXED C. J. GALLE DATE

WEATHER Clear-Windy TIME 1:30 - 1:45

NOTES CHKD [illegible] DATE [illegible] 6 '65

INST. NO. [illegible]

ROD NO. 9-19

F.B. 3740 Pg. 55

PLEASE RETURN TO

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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 BM21-16 TO BM21-15B
BM 21-16													BM21-16 (Inglewood F-12A) Rosecrans Ave and Mansel Ave See F.B. 1391-20
1	234	448	535	5	248 / 220	28	148	348	449	5	163 / 133	30	
2	67	169	368	5	86 / 48	38 / 66	237	527	538	5	256 / 218	38 / 68	⊼ Maldonado
3	43	043	344	5	67 / 19	48 / 14	201	327	502	5	225 / 177	48 / 16	
4	115	131	416	5	138 / 92	46 / 60	150	188	451	5	173 / 127	46 / 62	
	459	791					737	390					
BM21-15B													BM 21-15B (RM#4) Rosecrans Ave and Hawthorne Blvd. See F.B. 3702-34

Summation of Run
From B.M. 21-16
To B.M. 21-15B

Total Backsights = + 459.791
Total Foresights = − 737.390
Diff. Elev. = − 277.599

Backsight stadia = 160
Foresight Stadia = 162
Total Stadia = 322 meters

F.B. 3740 Pg. 56 JOB NO. 0301.02
SURVEY OF E.A. Co. Precise Level Net
SURVEY BY F. E. Brooks NOTES K. M. Kapp
INDEXED C. J. GALLE DATE

WEATHER Clear INST. NO. 96716
TIME 10:45-10:55 ROD NO. 9-19
NOTES CHKD [illegible] DATE [illegible] 6 '65

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 BM21-16 TO BM21-17C
BM21-16									BM21-16 (INGLEWOOD F-12A) Rosecrans Ave & Mansel ~~St~~ Ave.
1	90	652	391 5	116 64 52	161	968	462 5	186 136 50	
2	175	235	476 5	200 150 50 102	113	999	414 5	138 88 50 100	See FB 1391-20
3	139	761	440 5	168 110 58 160	167	238	468 5	195 138 57 157	T Bustrum
4	145	055	446 5	170 120 50 210	156	797	457 5	181 131 50 207	Summation of Run From B.M. 21-16 To B.M. 21-17C
5	145	843	446 5	164 126 38 248	154	329	455 5	175 133 42 249	
	696	546			754	331			
BM21-17C									BM 21-17C Rosecrans Ave. & Inglewood Ave. See F.B. 1391-21C

Total Backsights = + 696.546

Total Foresights = − 754.331

Diff. Elev. = −57.785

Backsight stadia = 248

Foresight Stadia = 249

Total Stadia = 497 meters

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

SURVEY BY R. E. Brooks

NOTES BY K.M. Kapp DATE 10-30-64

INDEXED C. J. GALLE DATE

WEATHER Clear-Windy INST. NO. 96716

TIME 1:50-2:10 ROD NO. 9-19

NOTES CHKD. [illegible] DATE

F.B. 3740 Pg. 57

PLEASE RETURN TO

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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. 3740 PG. 58 JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY L. E. Brooks NOTES X. M. Kapp

INDEXED C. J. GALLI DATE

WEATHER Clear INST. NO. 26715

TIME 10:20-11:40 ROD NO. 9-19

NOTES CHKD. DATE JAN 6 '65

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA		DESCRIPTION AND REMARKS
													FROM BM 21-17C TO BM 21-16
BM 21-17C													BM 21-17C Rosecrans Ave. & Inglewood Ave. See F.B. 1391-21C
1	152	422	453	5	172 / 132	40	143	693	444	5	164 / 122	42	
2	140	220	441	5	165 / 116	50 / 90	122	190	423	5	147 / 97	50 / 92	T Maldonado
3	158	801	459	5	186 / 130	56 / 146	137	692	438	5	167 / 107	60 / 152	
4	112	697	413	5	137 / 87	50 / 196	172	072	473	5	196 / 148	48 / 200	
5	150	972	451	5	176 / 124	52 / 248	81	580	382	5	106 / 56	50 / 250	Summation of Run From B.M. 21-17C To B.M. 21-16
	715	112					657	227					
BM 21-16													BM 21-16 (Inglewood F-12A) Rosecrans Ave. & Mansel Ave. See F.B. 1391-20

Total Backsights = + 715.112

Total Foresights = − 657.227

Diff. Elev. = + 57.885

Backsight stadia = 248

Foresight Stadia = 250

Total Stadia = 498 Meters

76P526B CE # 308 8-59

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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 B
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM21-17C TO BM21-17A
BM21-17C													BM21-17C Rosecrans Ave & Inglewood Ave
1	165	867	466	5	175 154	21	151	559	452	5	161 140	21	See FB 1391-21C π Bustrum
BM 21-17B													BM 21-17B Rosecrans Ave. & Inglewood Ave. See F.B. 1391-21C

Summation of Run
From B.M. 21-17C
To B.M. 21-17B

Total Backsights = + 165.867
Total Foresights = − 151.559
Diff. Elev. = + 14.308

Backsight stadia = 21
Foresight Stadia = 21
Total Stadia = 42 meters

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

SURVEY BY E. J. Brooks

NOTES BY K. M. Kapp DATE 10-30-64 WEATHER Clear INST. NO. 98716

INDEXED E. J. GALLI DATE NOTES CHKD. [illegible] DATE JAN 6 '65 ROD NO. 9-19

F.B. 3740 Pg. 59

PLEASE RETURN TO

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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.

INST. NO. 96716
ROD NO. 9-19
DATE JAN 6 '65

WEATHER Clear
TIME 10:10
NOTES CHKD

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM 21-17B TO BM 21-17C
BM 21-17B													BM 21-17B Rosecrans Ave. & Inglewood Ave. See F.B. 1391-21C
1	153	483	454	5	164 142	22	167	790	448	5	178 156	22	T Maldonado
BM 21-17C													BM 21-17C Rosecrans Ave. & Inglewood Ave. See F.B. 1391-21C

Summation of Run
From B.M. 21-17B
To B.M. 21-17C

Total Backsights = + 153.483
Total Foresights = − 167.790
Diff. Elev. = − 14.307

Backsight stadia = 22
Foresight Stadia = 22
Total Stadia = 44 in traverse

F.B. 3740 PG. 60
JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES F.B.
INDEXED C. J. GALLI 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.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT	STADIA	RIGHT	MIC.	LEFT	STADIA	FROM BM 21-17A TO BM 21-17A
BM 21-17A B									BM 21-17A B Rosecrans Ave & Inglewood Ave
1	153	685	454 5	162 144 18	201	463	502 5	208 193 15	See FB 1391-21A C π Bustrum
BM 21-17A									BM 21-17A Rosecrans Ave. & Inglewood Ave. See F.B. 1391-21A

Summation of Run
From B.M. 21-17 B
To B.M. 21-17 A

Total Backsights = + 153.685
Total Foresights = − 201.463
Diff. Elev. = − 47.778

Backsight stadia = 18
Foresight Stadia = 15
Total Stadia = 33 meters

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

SURVEY BY L. E. Brooks WEATHER Clear INST. NO. 967K

NOTES BY K. M. Kapp DATE 10-30-64 TIME 8:20 ROD NO. 9-19

INDEXED C. J. GALLI DATE NOTES CHKD [illegible] DATE JAN 6 '65

F.B. 3740 Pg. 61

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

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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.

INST. NO. 96716
ROD NO. 8-19
DATE JAN 6 '65
WEATHER Clear
TIME 10:10
NOTES CHKD

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM 21-17A TO BM 21-17B
BM 21-17A													BM 21-17A Rosecrans Ave. & Inglewood Ave. See F.B. 1391-21A
1	193	938	494	5	201 185	16	146	149	447	5	154 138	16	T Maldonado
BM 21-17B													BM 21-17B Rosecrans Ave. & Inglewood Ave. See F.B. 1391-21C

Summation of Run
From B.M. 21-17A
To B.M. 21-17B

Total Backsights = + 193.938
Total Foresights = − 146.149
Diff. Elev. = + 47.789

Backsight stadia = 16
Foresight Stadia = 16
Total Stadia = 32 meters

F.B. 3740 PG. 62
JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES F.B.
INDEXED C. J. GALLI DATE

76P526B CE # 308 6-59

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
BM21-17B													FROM BM21-17A TO BM21-18A
1	189	911	490	5	208 / 169	39	146	245	[illegible]	5	166 / 126	40	BM21-17A Rosecrans & Inglewood Aves
2	169	682	470	5	194 / 144	50 / 89	142	125	[illegible]	5	168 / 116	52 / 92	See FB 1391-21A
3	162	541	463	5	190 / 134	56 / 145	131	569	432	5	159 / 103	56 / 148	⊼ Bustrum
4	163	[illegible]	[illegible]	5	[illegible]	[illegible]	147	[illegible]	448	5	172 / 122	50 / 198	
5	141	[illegible]	442	5	[illegible]	56 / 253	124	[illegible]	425	5	152 / 96	56 / 254	Summation of Run From B.M. 21-17A To B.M. 21-18A
6	170 / ~~148~~	658 / ~~893~~	471 / ~~449~~	5 / ~~5~~	[illegible] / ~~122~~	52 / 305	148	893	449	5	174 / 122	52 / 306	
7	169	501	470	5	197 / 141	56 / 361	144	722	445	5	173 / 115	58 / 364	Total Backsights = + 1736.385 ✓
8	175	312	476	5	198 / 151	47 / 408	123	288	424	5	147 / 99	48 / 412	Total Foresights = − 1362.159 ✓
9	186	295	487	5	214 / 158	56 / 464	127	648	428	5	153 / 101	52 / 464	Diff. Elev. = + 374.226 ✓
10	207	053	508	5	228 / 186	42 / 506	125 / ~~121~~	593 / ~~165~~	426 / ~~422~~	5 / ~~5~~	146 / 104 / ~~142~~ / ~~100~~	42 / ~~42~~ / ~~506~~ / 506	Backsight stadia = 506 ✓
	1736	385 ✓					1362	159 ✓					Foresight Stadia = 506 ✓
													Total Stadia = 1012 meters
BM21-18A													BM21-18A Rosecrans Ave and Hindy ~~Ave~~ Place See F.B. 3702-41

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

SURVEY BY F. E. Brooks

NOTES BY F. E. Brooks DATE 30 Oct 1964

INDEXED C. J. GALLI DATE

WEATHER Clear

TIME 2:45 - 3:10

NOTES CHKD [illegible] DATE [illegible] 6 '65

INST. NO. [illegible]

ROD NO. [illegible]

F.B. 3740 Pg. [illegible]

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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. 3740 PG. 64 JOB NO. 0301.02

SURVEY OF LA Co. Precise Level Net

SURVEY BY E. E. Brooks NOTES F.E.B.

INDEXED C. J. GALL DATE

WEATHER Clear INST. NO. 26716

TIME 9:30 - 11:05 ROD NO. 9-14

NOTES CHKD [illegible] DATE JAN 6 '65

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM21-18A TO BM21-17A
BM21-18A													BM21-18A Rosecrans Ave and Hindry Place See F.B. 3702-41
1	124	300	425	5	146 102	44	204	821	505	5	226 182	44	
2	122	241	423	5	147 97	50 94	181	942	482	5	208 154	54 98	T Maldonado
3	123	462	424	5	148 98	50 144	174	791	475	5	200 148	52 150	
4	137	820	438	5	163 111	52 196	160	861	461	5	187 133	54 204	Summation of Run From B.M. 21-18A To B.M. 21-17A
5	138	652	439	5	166 110	56 252	161	267	462	5	185 137	48 252	
6	126	140	427	5	154 98	56 308	146	153	446	5	173 117	56 308	
7	140	761	441	5	166 114	52 360	155	802	456	5	180 130	50 358	Total Backsights = + 1307.698 Total Foresights = − 1681.869 Diff. Elev. = − 374.171
8	121	831	422	5	149 93	56 416	153	641	454	5	180 128	54 412	
9	141	921	442	5	166 116	50 466	169	239	470	5	195 143	52 464	Backsight stadia = 504 Foresight Stadia = 504 Total Stadia = 1008 meters
10	130	570	431	5	149 111	38 504	174	352	475	5	194 154	40 504	
	1307	698					1681	869					
BM21-17A													BM21-17A Rosecrans Ave and Inglewood Ave See F.B. 1391-21A

76P526B CE # 308 8-59

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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
BM21-18A									FROM BM21-18A TO BM21-19A
									BM21-18A Rosecrans Ave & Hindry Place.
1	227	898	528 5	248 206 42	203	134	504 5	223 183 40	
2	97 ~~93~~	632	398 5	122 72 50 92	209	912	510 5	236 182 54 94	See FB 3702-41
3	213	449	514 5	240 186 54 146	129	961	430 5	156 102 54 148	π Maldonado
4	145	138	446 5	172 118 54 200	21~~5~~7	200	518 5	244 190 54 202	
5	74	938	375 5	101 47 54 254	181	810	482 5	207 155 52 254	
6	170	489	471 5	200 140 60 314	141 ~~135~~	112 ~~291~~	442 5 ~~436~~ 5	172 ~~160~~ 68 ~~402~~ ~~64~~ ~~320~~ 316	
7	168	338	469 5	173 163 10 324	144	831	— 5	150 138 12 328	
	1097	882			1227	960			
BM 21-19A									BM 21-19A Rosecrans Ave. & Aviation Blvd. See F.B. 3702-43

Used steel Tape

Summation of Run
From B.M. 21-18A
To B.M. 21-19A

Total Backsights = + 1097.882
Total Foresights = − 1227.960
Diff. = − 130.078

Backsight stadia = 324
Foresight Stadia = 328
Total Stadia = 652 Meters

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

SURVEY BY E. F. Brooks

NOTES BY K. N. Kapp DATE 11-4-64

INDEXED C. J. GALLI DATE

WEATHER Clear-Windy INST. NO. 96716

TIME 1:15-1:50 ROD NO. 9-19

NOTES CHKD [illegible] DATE JAN 6 '65

F.B. 3740 Pg. 65

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	
BM 21-19A												
					150						172	
1	144	160	—		138	12	167	920	468	5	162	10
	STEEL TAPE USED											
					156						185	
2	126	677	427	5	96	60	155	857	456	5	125	60
					212	72					106	70
3	186	311	487	5	160	52	79	356	380	5	52	54
					254	124					182	124
4	227	688	528	5	200	54	155	700	456	5	128	54
					148	178					231	178
5	121	473	422	5	94	54	204	899	505	5	177	54
					240	232					116	232
6	213	412	514	5	186	54	91	271	392	5	66	50
					223	286					259	282
7	204	112	505	5	185	38	238	772	539	5	217	42
						324						324
	1223	833					1093	775				
BM 21-18A												

DESCRIPTION AND REMARKS

FROM BM 21-19A TO BM 21-18A

BM 21-19A
Rosecrans Ave. &
Aviation Blvd.
See F.B. 3702-43

T K. KAPP

Summation of Run
From B.M. 21-19A
To B.M. 21-18A

Total Backsights = + 1223.833
Total Foresights = − 1093.775
Diff. Elev. = + 130.058

Backsight stadia = 324
Foresight Stadia = 324
Total Stadia = 648

BM 21-18A
Rosecrans Ave. &
Hindry Place
See F.B. 3702-41

WEATHER SUNNY & WINDY INST. NO. 96716
TIME 2:05 To 2:40 ROD NO. 9-19
NOTES CHKD [illegible] DATE JAN 6 '66

F.B. 3740 PG. 66 JOB NO. 0301.02
SURVEY OF E.A. Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES J. MALDONADO
INDEXED C. J. GALLI 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.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT	FORESIGHT STADIA	DESCRIPTION AND REMARKS
									FROM BM21-19A TO BM21-20
BM21-19A									BM21-19A Rosecrans Ave & Aviation Blvd.
1	139	229	5	144 133 11	134	625	435 5	140 128 12	
2	293	658	594 5	293 262 31x2 62 73	127	208	428 5	158 96 62 74	See FB 3702-43
3	156	418	457 5	184 128 56 159	117	087	418 5	145 89 56 130	⊼ Maldonado steel tape used on #1 back sight.
4	170	600	471 5	198 142 56 185	108	525	419 5	135 81 54 184	Summation of Run = 21-19A
5	182	312	483 5	203 161 42 229	6	388	307 5	28 6 22x2 44 228	From B.M. Foresight Stadia = 21-20
6	282	033	583 5	294 270 24 251	6	499	307 5	18 6 12x2 24 252	To B.M. Total Stadia =
7	283	220	584 5	295 271 24 275	16	672	317 5	28 4 24 276	Total Backsights = + 1691.490
8	183	240	484 5	188 178 10 285	152	168	453 5	157 147 10 286	Total Foresights = − 669.172
	1691	490			669	172			Diff. Elev. = +1022.318
									Backsight stadia = 285
									Foresight Stadia = 286
									Total Stadia = 571 meters
BM21-20									BM21-20 (Inglewood B-12) Rosecrans Ave at Std. Oil gate #43 See F.B. 3391-24

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

SURVEY BY E. E. Brooks WEATHER Clear INST. NO. 96716

NOTES BY E. E. Brooks DATE 4 Nov. 1964 TIME 2:00 - 2:30 ROD NO. 9-19

INDEXED C. J. GALLI DATE NOTES CHKD. [illegible] DATE JAN 6 '65

F.B. 3740 Pg. 67

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 BM21-20 TO BM21-19A
BM21-20													BM21-20 Rosecrans Ave at Std. Oil gate # 43 See F.B. 1391-24
1	144	160	← STEEL	5	150 138 TAPE	12 USED	167	920	468	5	172 162	10	
2	126	677	427	5	156 96	60 72	155	857	456	5	185 125	60 70	
3	186	311	487	5	212 160	52 124	79	356	380	5	106 52	54 124	
4										5			Summation of Run From B.M. 21-20 To B.M. 21-19A
5				5									
6										5			Total Backsights = + Total Foresights = − Diff. Elev. =
7													
8													Backsight stadia = Foresight Stadia = Total Stadia =
BM21-19A													BM 21-19A Rosecrans Ave and Aviation Blvd. See F.B. 3702-43

Void

See Pg 68 A

F.B. 3740 PG. 68 JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY E. Brooks NOTES J. MALDONADO

INDEXED C. J. GALLI DATE

WEATHER SUNNY INST. NO. 8716

TIME 2:05 To ROD NO. 9-19

NOTES CHKD DATE

76P526 CE # 308 3-61

PLEASE RETURN TO

L[illegible] ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
BM21-20									FROM BM21-20 TO BM21-19A
1	160	480	461 5	164 156 8	193	672	494 5	197 189 8	BM21-20 (Inglewood B-12 Rosecrans Ave at Std. Oil gate # 43 See F.B. 1391-24
2	22	178	323 5	34 10 24 32	287	588	588 5	299 275 24 32	π Kapp
3	17	399	318 5	28 6 22 54	293	498	594 5	293 282 11x2 22 54	
4	12	258	313 5	34 12 22x2 44 98	186	698	487 5	207 165 42 96	Summation of Run From B.M. 21-20 To B.M. 21-19A
5	120	046	421 5	147 93 54 152	189	848	490 5	216 162 54 150	
6	136	738	437 5	164 108 56 208	169	182	470 5	196 142 54 204	Total Backsights = + 719.842 ✓ Total Foresights = − 1742.038 ✓ Diff. Elev. = − 1022.196 ✓
7	118	335	419 5	148 88 60 268	270	172	571 5	301 239 62 266	
8	132	408	433 5	138 126 12 280	151	388		166 156 10 276 ✓	Backsight Stadia = 280 Foresight Stadia = 276 Total Stadia = 556 meters
	719	842 ✓			1742	038 ✓			Steel tape used on Foresight
BM21-19A									BM21-19A Rosecrans Ave and Aviation Blvd See F.B. 3702-43

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

SURVEY BY F. E. Brooks

NOTES BY [illegible] DATE 6 Nov 64 WEATHER Clear INST. NO. 96716

INDEXED C. J. GALLI DATE TIME 1:35 - 2:00 ROD NO. 9-19

NOTES CHKD [illegible] DATE JAN 6 '65

F.B. 3740 PG. 68A

F.B. 3740 PG. 66B JOB NO.

SURVEY OF

SURVEY BY NOTES

INDEXED DATE

WEATHER INST. NO.

TIME ROD NO.

NOTES CHKD DATE

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 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

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

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. E. Brooks WEATHER Clear - Windy INST. NO. 8671

NOTES BY K. M. Kapp DATE 11-4-64 TIME 2:35-3:30 ROD NO. 8-18

INDEXED G. J. GALL DATE NOTES CHKD DATE

F.B. 3740 Pg. 69

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA		DESCRIPTION AND REMARKS
													FROM BM21-20 TO BM21-R1A
BM 21-20													BM21-20 (Inglewood 8-12 Rosecrans Ave at standard oil gate #43 See FB 1391-24
1	258	618	559	5	282 234	48	175	622	476	5	198 152	46	
2	57	518	358	5	69 45	24 72	218	601	519	5	227 209	18 64	
3	128	238	429	5	148 108	40 64 112	83	489	384	5	106 60	46 110	T Maldonado
4	70	801	371	5	80 60	20 132	283	961	584	5	294 272	22 132	
5	3	338	304	5	11 1/2 3	8 16 148	299	246	600	5	299 1/2 290	9 18 150	Summation of Run From B.M. 21-20 To B.M. 21-21A
6	10	921	311	5	18 1/2 10	8 16 164	288	461	589	5	296 280	16 166	
7	32	499	333	5	41 23	18 182	255	668	556	5	264 246	18 184	Total Backsights = + 1839.993' Total Foresights = − 1740.632'
8	126	630	427	5	152 100	52 234	4	943	305	5	30 1/2 4	26 52 236	Diff. Elev. = + 99.361'
9	289	028	590	5	289 1/2 273	16 32 266	39	530	340	5	54 24	30 266	Backsight stadia = ~~382~~ 384' Foresight Stadia = 384' Total Stadia = 768 meters
10	276	280	577	5	288 264	24 290	17	493	318	5	30 4	26 292	
11	295	328	596	5	295 1/2 281	14 28 318	13	961	314	5	26 1/2 13	13 26 318	BM21-21A (RM43) Rosecrans Ave and ATSF R.R. See F.B. 3702-49
12	290	794	591	5	290 1/2 258	32 64 352	59	657	360	5	92 1/2 59	33 66 384	
	1839	993					1740	632					
BM 21-21A													

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	
BM 21-21 A												
1	62	512	363	5	96 62	34x2 68	292	638	593	5	292 260	32x2 64
2	48	288	349	5	62 34	28 96	278	431	579	5	292 264	28 92
3	10	280	311	5	22 10	12x2 24 120	294	512	595	5	294 281	13x2 26 118
4	25	510	326	5	40 10	30 150	288	820	589	5	288 273	15x2 30 148
5	18	348	311	5	36 10	26x2 52 202	145	095	446	5	172 118	54 202
6	268	278	569	5	278 258	20 222	48	272	349	5	56 40	16 218
7	284	558	585	5	292 276	16 238	9	538	310	5	19 9	10x2 20 238
8	300	690	601	5	300 292	8x2 16 254	10	932	311	5	18 3	15 253
9	276	852	577	5	288 264	24 278	53	123	354	5	63 43	20 273
10	109	192	410	5	129 89	40 318	150	810	451	5	173 127	46 319
11	251	083	552	5	263 239	24 342	82	395	383	5	93 71	22 341
12	189	005	490	5	212 166	46 388	281	112	582	5	303 259	44 385
	1836	596					1935	678				
BM 21-20												

DESCRIPTION AND REMARKS

FROM BM 21-21A TO BM 21-20

BM 21-21A RM #3
Rosecrans Ave and A.T.&S.F. R.R.
See F.B. 3702-49

⊼ Kapp

Summation of Run
From B.M. 21-21A
To B.M. 21-20

Total Backsights = + 1836.596
Total Foresights = − 1935.678
Diff. Elev. = − 99.082

Backsight stadia = 388
Foresight Stadia = 385
Total Stadia = 773 meters

BM 21-20 (Inglewood A-12 A)
Rosecrans Ave at Std. 0.1
gate # 43
See F.B. 1391-24

F.B. 3740 Pg. 70

JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY F. E. Brooks NOTES F.E.B.

INDEXED C. J. GALLI DATE

WEATHER Clear INST. NO. 96716

TIME 1:00 - 1:30 ROD NO. 9-19

NOTES CHKD [illegible] DATE 6 '65

76P526B CE # 306 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. E. Brooks WEATHER Sunny INST. NO. 96716

NOTES BY J. MALDONADE DATE 11-5-64 TIME 8:50 TO 9:00 ROD NO. 9-19

INDEXED C. J. [illegible] DATE NOTES CHKD [illegible] DATE

F.B. 3740 Pg. 71

STATION	BACKSIGHT Right	Mic.	Left		Stadia		FORESIGHT Right	Mic.	Left		Stadia		DESCRIPTION AND REMARKS
													From BM21-21A To BM21-21-B
BM21-21A					~~195~~								BM21-21A (RM#3) Rosecrans Ave & A.T.&S.F. R.R.
1	~~188~~	~~158~~	~~489~~	5	~~181~~	14							
					209						173		
1.	200	925	501	5	191	18	164	139	465	5	155	18	See FB 3702-49
													T Mother
BM 21-21B													BM 21-21B (RM#2) Rosecrans Ave. & A.T.&S.F. R.R SEE F.B. 3702-49

Summation of Run

From B.M. 21-21A

To B.M. 21-21B

Total Backsights = + 200.925'

Total Foresights = − 164.139'

Diff. Elev. = + 36.786'

Backsight stadia = 18'

Foresight Stadia = 18'

Total Stadia = 36' meters

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 21-21B TO BM 21-21A
BM 21-21B					177						214		BM 21-21B (RM#2)
1	168	954	469	5	159	18	205	792	506	5	196	18	Rose crans Ave and AT & S.F. R.R. See F.B. 3702-49
													π
													BM 21-21A (RM#3) Rose crans Ave and AT & S.F RR See F.B. 3702-49

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

Total Backsights = + 168.954
Total Foresights = − 205.792
Diff. Elev. = −36.838

Backsight stadia = 18
Foresight Stadia = 18
Total Stadia = 36 meters

F.B. 3740 PG. 72 JOB NO. 0301.02

SURVEY OF E.A. Co. Precise Level Net

SURVEY BY E. E. Brooks NOTES S. M. Maldonado

INDEXED C. J. GALLI DATE

WEATHER Sunny INST. NO. 96716

TIME 9:10 ROD NO. 9-19

NOTES CHKD [illegible] DATE JAN 6 '65

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 21-21B TO BM 21-21
BM 21-21B					203						186		BM 21-21B (RM#2)
1	198	464	499	5	193	10	181	069	482	5	176	10	Rosecrans Ave & A.T.&S.F. R.R.
													See FB 3702-49 π Mother
													BM 21-21 (Inglewood A-12A) Rosecrans Ave and AT&S.F. RR See F.B. 1391-25
													Summation of Run From B.M. 21-21B To B.M. 21-21
													Total Backsights = + 198.464
													Total Foresights = − 181.069
													Diff. Elev. = + 17.395
													Backsight stadia = 10
													Foresight Stadia = 10
													Total Stadia = 20 meters

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

SURVEY BY F. E. Brooks WEATHER Sunny INST. NO. 96716

NOTES BY S.M. Maldonado DATE 11-5-64 TIME 9:05 TO ROD NO. 9-19

INDEXED C. J. GALLI DATE NOTES CHKD DATE 11 6 '65

F.B. 3740 Pg. 73

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 Sunny INST. NO. 96716
TIME 4:05 T ROD NO. 9-19
NOTES CHKD [illegible] DATE JUN 6 '65

F.B. 3740 PG. 74 JOB NO. 0701.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY F. E. Brooks NOTES J. M. Maldonado
INDEXED G. J. GALLI DATE

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM 21-21 TO BM 21-21B
BM21 21													BM 21-21 (Inglewood A-12A)
					191						208		Rosecrans Ave and
1	186	638	487	5	181	10	203	998	504	5	198	10	AT&S.F. R.R.
													See F.B. 1391-25
													T Mather
													BM 21-21B (RM#2)
													Rosecrans Ave and
													AT&S.F RR
													See F.B. 3702-49
													Summation of Run
													From B.M. 21-21
													To B.M. 21-21B
													Total Backsights = + 186.638
													Total Foresights = − 203.998
													Diff. Elev. = −17.360
													Backsight stadia = 10
													Foresight Stadia = 10
													Total Stadia = 20 meters

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 21-21 TO BM 21-21C
BM 21-21									BM 21-21 Inglewood A-12A Rosecrans Ave & A.T. & S.F. R.R. See FB 1391-25
BM 21-21C									BM 21-21 C Rosecrans Ave and AT&S.F. R.R. See F.B. 3702-49
									Summation of Run From B.M. To B.M.
	Note BM 21-21C is in a large mud hole ~~an~~ with no means of draining the water. It can be run after the water evaporates								Total Backsights = + Total Foresights = − Diff. Elev. =
									Backsight stadia = Foresight Stadia = Total Stadia =

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

SURVEY BY E. E. Brooks WEATHER INST. NO. 96716

NOTES BY DATE TIME ROD NO. 9-10

INDEXED C. J. GALLI DATE NOTES CHKD [illegible] DATE JAN 6 '63

F.B. 3740 Pg. 75

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.

INST. NO. 9612
ROD NO. 9-12
DATE
WEATHER
TIME
NOTES CHKD

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT	STADIA	RIGHT	MIC.	LEFT	STADIA	FROM BM21-21C TO BM21-21
									BM21-21C Rosecrans Ave and AT & S.F. R.R. See F.B. 3702-49 T BM21-21 Inglewood A-12A Rosecrans Ave and AT & SF RR See F.B. 1391-25 Summation of Run From B.M. To _ B.M. Total Backsights = + Total Foresights = − Diff. Elev. = Backsight stadia = Foresight Stadia = Total Stadia =

F.B. 3740 PG. 76
JOB NO. 0301.02
SURVEY OF E.A. Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES
INDEXED G. J. GALLI DATE

76P526 CE # 308 3-61

PLEASE RETURN TO

L ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES TO THIS SHEET MUST BE MADE OR COLLED 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
BM21-21								
1	258	313	559 5	278 238 40	2	449	303 5	22 2 20x2 40
2	296	569	597 5	296 284 12x2 24 64	22	483	323 5	33 11 22 62
3	297	552	598 5	297 286 11x2 22 86	17	910	318 5	28 6 22 84
4	291	349	592 5	291 280 11x2 22 108	12	573	313 5	23 12 11x2 22 106
5	283	838	584 5	297 271 26 134	86	454	387 5	97 75 22 128
6	180	439	481 5	191 170 21 155	65	552	366 5	77 53 24 152
7	281	781	582 5	293 270 23 178	56	165	357 5	68 44 24 176
8	176	399	477 5	183 190 13 191	172	598	473 5	179 165 14 190
	2066	240			436	184		
BM21-22A								

DESCRIPTION AND REMARKS

FROM BM21-21 TO BM21-22A

BM 21-21 (Inglewood A-12A)
Rosecrans Ave and AT&S.F. R.R.
see F.B. 1391-25

T Mather

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

Total Backsights = + 2066.240
Total Foresights = − 436.184
Diff. Elev. = +1630.056

Backsight stadia = 191
Foresight Stadia = 190
Total Stadia = 381 meters

BM21-22A (RM#3)
Rosecrans Ave and Oak Ave.
See F.B. 3702-53

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

SURVEY BY E. E. Brooks

NOTES BY E. E. Brooks DATE 5 Nov 1964

INDEXED C. J. GALLI DATE

WEATHER clear

TIME 9:15 - 9:55

NOTES CHKD. [illegible] DATE [illegible] 6 '65

INST. NO. 96716

ROD NO. 9-19

F.B. 3740 PG. 77

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
BM21-22A									FROM BM 21-22A TO BM21-21
1	177	767	478 5	183 171 12	182	614	483 5	188 176 12	BM21-22 A (RM#3) Rosecrans Ave and Ock St. See F.B. 3702-53
2	53	020	354 5	66 40 26 38	278	112	579 5	288 268 20 32	T K.-Kapp
3	64	522	365 5	74 54 20 58	179	149	480 5	192 166 26 58	
4	83	215	384 5	94 72 22 80	276	031	577 5	288 264 24 82	Summation of Run From B.M. 21-22A To B.M. 21-21
5	7	001	308 5	19 7 12x2 24 104	288	798	589 5	299 277 22 104	Total Backsights = + 463.676
6	26	031	327 5	38 14 24 128	298	253	599 5	298 286 12x2 24 128	Total Foresights = -2093.725
7	24	490	325 5	35 13 22 150	295	053	596 5	295 24 21x2 22 150	Diff. Elev. = -1630.049
8	27	630	328 5	48 6 42 192	295	715	596 5	295 274 21x2 42 192	Backsight stadia = 192; Foresight Stadia = 192; Total Stadia = 384 meters
	463	676			2093	725			
BM21-21									BM21-21- (Inglewood A-12A) Rosecrans Ave and AT & S.F. RR. See F.B. 1391-25

WEATHER clear INST. NO. 96716
TIME 11:25 - 11:45 ROD NO. 9-19
NOTES CHKD. [illegible] DATE JAN 6 '65

F.B. 3740 PG. 78 JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Mar
SURVEY BY F. E. Brooks NOTES F. E. Brooks
INDEXED C. J. GALLI 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.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM ~~BM 21-22A~~ TO ~~BM 21-22~~
BM 21-22A					173						198		BM 21-22A (RM #3)
1	169	595	470	5	165	8	194	151	495	5	190	8	Rosecrans Ave & Oak Ave
													See FB. 3702-53
													BM 21-22 (Inglewood A+B) Rosecrans Ave and Oak Ave
													See F.B. 1391-26
													Summation of Run From B.M. 21-22 A To B.M. 21-22
													Total Backsights = + 169.595 Total Foresights = − 194.151 Diff. Elev. = −24.556
													Backsight stadia = 8 Foresight Stadia = 8 Total Stadia = 16 meters

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

SURVEY BY E. E. Brooks WEATHER SUNNY INST. NO. 26716

NOTES BY J. MALDONADO DATE 11-5-68 TIME 10:00 To 10:05 ROD NO. 9-19

INDEXED C. J. DATE NOTES CHKD DATE JAN 6 '69

F.B. 3710 Pg. 79

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 21-22 TO BM 21-22A
BM 21-22													BM 21-22 (Inglewood A-12B)
					203						179		Rosecrans Ave and
1	199	800	500	5	195	8	175	133	476	5	171	8	Oak Ave
													See F.B. 1391-26
													T - K. KAPP
BM 21-22A													BM 21-22A (RM #3)
													Rosecrans Ave and
													Oak Ave
													See F.B. 3702-53

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

Total Backsights = + 199.800
Total Foresights = − 175.133
Diff. Elev. = + 24.667

Backsight stadia = 8
Foresight Stadia = 8
Total Stadia = 16

F.B. 3740 Pg. 80 JOB NO. 0301.02
SURVEY OF LA. Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES
INDEXED C. J. GALLI DATE

WEATHER SUNNY INST. NO. 9716
TIME 11:20 To ROD NO. 9-19
NOTES CHKD [illegible] DATE JAN 6 '65

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 BM21-22 TO BM21-23
BM21-22					169						263		BM21-22 (INGLEWOOD A-12B)
1.	151	826	452	5	133	36	246	~~920~~ 920	547	5	229	34	Rosecrans Ave &
					59						297		Oak Ave
2	46	973	347	5	33	26 62	284	882	585	5	271	26 60	
					39						284		See FB 1391-26
3	28	163	329	5	16	23 85	273	001	574	5	262	22 82	
					51						295		⊼ R. MATHER
4	39	268	~~5~~ 340	5	28	23 108	284	875	585	5	272	23 105	
					56						294		
5	45	698	346	5	34	22 130	283	657	584	5	272	22 127	
					26						297	½	
6	15	241	316	5	4	22 152	297	859	598	5	286	22 149	
					17	½					300	½	
7	5	426	306	5	5	24 176	300	859	~~601~~ 601	5	288	24 173	
					30						268		
8	18	286	319	5	6	24 200	254	818	555	5	240	28 201	
					29	½					192		
9	6	508	307	5	6	~~26~~ 246	168	788	469	5	144	48 249	
					263						50		
10	248	989	549	5	234	29 275	37	941	338	5	24	26 275	
					292						200		
11	274	718	575	5	256	36 311	183	166	484	5	166	34 309	
					109						296	½	
12	91	775	392	5	73	36 347	296	942	597	5	277	36 345	
					66						177		
13	50	219	351	5	33	33 380	160	268	461	5	143	34 379	

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

SURVEY BY F. E. Brooks WEATHER SUNNY INST. NO. 96716

NOTES BY J. MALDONADO DATE 11-5-64 TIME 10:05 TO ROD NO. 9-19

INDEXED C. J. GALLI DATE NOTES CHKD [signature] DATE JAN 6 '65

F.B. 3140 Pg. 81

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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. 3740 PG. 82 JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY F.E. Brooks NOTES J.M. McDonald

INDEXED G. J. GALLI DATE

WEATHER Sunny INST. NO. 26716

TIME 10:05 TO 11:15 ROD NO. 9-12

NOTES CHKD. [illegible] DATE [illegible]

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA		DESCRIPTION AND REMARKS
													FROM BM 21-22 TO BM 21-23
					248	380					94	379	
14	235	292	536	5	223	25	73	282	374	5	68 69	25 7	
					268	405					62	404	
15	255	661	556	5	242	26	48	148	349	5	34	28 ~~32~~	
					278	431					223	~~436~~ 432	
16	257	763	558	5	235	43	201	182	502	5	178	44	
						474						476	
	1772	806					3396	588					
BM 21-23													BM 21-23 ROSECRANS AVE. & FLOURNOY Rd. SEE F.B. 1391-27

Summation of Run

From B.M. 21-22

To B.M. 21-23

Total Backsights = + 1772.806

Total Foresights = − 3396.588

Diff. Elev. = − 1623.782

Backsight stadia = 474

Foresight Stadia = 476

Total Stadia = 950 meters

76P526 CE # 308 3-61

PLEASE RETURN TO

L ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM 21-23 TO BM 21-22
BM 21-23									BM 21-23
1	202	818	503 5	224 180 44	259	172	560 5	280 238 42	ROSECRANS AVE. & FLOURNOY RD. SEE F.B. 1391-27
2	53	210	364 5	66 40 26 70	266	575	567 5	280 252 28 70	π Kapp
3	77	330	378 5	89 65 24 94	233	746	534 5	246 220 26 96	
4	163	952	464 5	180 146 34 128	48	198	349 5	65 31 34 130	
5	286	953	587 5	286 267 19x2 38 166	87	753	388 5	106 68 38 168	
6	186	246	487 5	203 169 34 200	277	882	578 5	295 259 36 204	
7	40	458	341 5	54 26 28 228	250	192	551 5	263 237 26 230	
8	167	991	468 5	191 143 48 276	6	072	307 5	29 6 23x2 46 276	
9	250	761	551 5	263 237 26 302	15	824	316 5	28 2 26 302	
10	300	870	601 5	300 289 11x2 22 324	11	800	312 5	22 11 11x2 22 324	
11	291	111	592 5	291 280 11x2 22 346	7	333	308 5	18 7 11x2 22 346	
12	291	507	592 5	291 280 11x2 22 368	44	180	345 5	55 33 22 368	
13	272	482	573 5	284 260 24 392	30	202	331 5	42 18 24 392	

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

SURVEY BY F. E. Brooks WEATHER clear INST. NO. 96761

NOTES BY F.E.B. DATE 6 Nov 64 TIME 10:35 ROD NO. 9-19

INDEXED C. J. GALLI DATE NOTES CHKD. [illegible] DATE [illegible]

F.B. 3740 [illegible] 83

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM 21-23 TO BM 21-22
				392				392	
14	276	578	577 5	28~~4~~ 265 22 414	33	740	334 5	44 22 22 414	
15	287	925	588 5	300 274 26 440	50	257	351 5	63 37 26 440	
16	251	103	552 5	268 234 34 474	153	483	454 5	170 136 34 474	
	3401	295			1776	409			
BM 21-22									BM 21-22 (Inglewood A-12 D) ROSECRANS AVE. & OAK AVE. SEE F.B. 1391-26

Summation of Run
From B.M. 21-23
To B.M. 21-22

Total Backsights = + 3401.295
Total Foresights = − 1776.409
Diff. Elev. = + 1624.886

Backsight stadia = 474
Foresight Stadia = 474
Total Stadia = 948 meters

F.B. 3740 Pg. 84 JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY F.E. Brooks NOTES F.E.B.
INDEXED C. J. GALLI DATE

WEATHER clear INST. NO. 96761
TIME 10:35 - 11:15 ROD NO. 9-19
NOTES CHKD. [illegible] DATE JAN 6 '65

76P526 CE # 308 3-61

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
									FROM BM21-23 TO BM21-69
BM21-23									BM21-23 Rosecrans Ave & Flournoy ~~Ave~~ Rd.
1	105	121	406 5	132 78 54	194	570	495 5	220 168 52	
2	127	769	428 5	149 105 44 98	198	630	499 5	220 176 44 96	See FB 1391-27
3	153	722	454 5	176 130 46 144	33	230	334 5	57 9 48 144	⊼ Mather.
4	190	619	491 5	210 170 40 184	220	422	521 5	240 200 40 184	
5	115	929	416 5	126 ~~44~~ 104 22 206	227	834	528 5	238 216 22 206	
6	60	538	361 5	72 48 24 230	246	869	547 5	258 234 24 230	
7	114	067	415 5	124 104 20 250	241	447	442 5	151 131 20 250 ✓	
	867	765 ✓			1263	002 ✓			
BM 21-69									BM 21-69 Rosecrans Ave and Bell Ave. See F.B. 3702-57

Summation of Run
From B.M. 21-23
To B.M. 21-69

Total Backsights = + 867.765 ✓
Total Foresights = − 1263.002 ✓
Diff. Elev. = − 395.237 ✓

Backsight stadia = 250 ✓
Foresight Stadia = 250 ✓
Total Stadia = 500 meters

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

SURVEY BY F. E. Brooks
NOTES BY E. E. Brooks DATE 5 Nov 1964
INDEXED C. J. GALLI DATE
WEATHER clear
TIME 11:15 - 11:45
NOTES CHKD. [illegible] DATE JAN 6 '65
INST. NO. 96716
ROD NO. 9-19

F.B. 3740 Pg. 85

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

408 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 21-69 TO BM 21-23
BM 21-69									BM 21-69
				453				125	Rosecrans Ave and Bell Ave
1	143	150	444 5	33 20	115	458	416 5	105 20	See F.B. 3702-57
				264				76	
2	252	591	553 5	240 24 44	64	821	365 5	52 24 44	T - K. KAPP
				241				131	
3	230	903	531 5	218 23 67	120	059	421 5	109 22 66	
				240				211	
4	220	714	521 5	200 40 107	191	517	492 5	171 40 106	
				61				184	
5	36	746	337 5	11 50 157	161	142	462 5	138 46 152	
				222				149	
6	201	950	502 5	180 42 199	125	275	426 5	101 48 200	
				214				127	
7	187	817	488 5	160 54 253	100	383	401 5	73 54 254	
	1273	871			878	655			
BM 21-23									BM 21-23
									Rosecrans Ave and Flournoy Rd.
									See F.B. 1391-27

Summation of Run
From B.M. 21-69
To B.M. 21-23

Total Backsights = + 1273.871
Total Foresights = − 878.655
Diff. Elev. = + 395.216

Backsight stadia = 253
Foresight Stadia = 254
Total Stadia = 507 METERS

F.B. 3740 Pg. 86 JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Mat
SURVEY BY F. E. Brooks NOTES J. MALDONADO
INDEXED C. J. GALLI DATE

WEATHER SUNNY INST. NO. 96716
TIME 10:10 To 10:30 ROD NO. 9-19
NOTES CHKD [illegible] DATE JAN 6 '65

76P526 CE # 308 3-61

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES TO THIS SHEET MUST BE MADE OR CHANGED 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. E. Brooks WEATHER Sunny INST. NO. 26776

NOTES BY J. MALDONADO DATE 11-5-68 TIME 1105 To 2:45 ROD NO. 2-19

INDEXED C. J. GALLI DATE NOTES CHKD DATE JAN 6 '68

F.B. 3740 PG. 67

STATION	BACKSIGHT Right	Mic.	Left		Stadia		FORESIGHT Right	Mic.	Left		Stadia		DESCRIPTION AND REMARKS
													FROM BM21-69 TO BM21-24
BM21-69					223						16	½	BM21-69
1	211	652	512	5	199	24	4	098	305	5	4	24	Rosecrans Ave &
					292	½					14	½	Bell Ave
2	292	259	593	5	282	20	5	888	306	5	5	18	
					282	44					31	42	See FB 3702-57
3	274	858	575	5	266	16	23	207	~~324~~ 324	5	15	16	
					268	60					37	58	
4	261	282	~~462~~ 562	5	254	14	29	862	330	5	21	16	T-R.M.MATHER
					281	74					37	74	
5	273	091	574	5	265	16	28	011	329	5	19	18	
					296	90					48	92	
6	287	789	588	5	278	18	34	249	340	5	30	18	
					292	108					250	110	
7	273	331	574	5	254	38	231	324	532	5	212	38	
					75	146					283	148	
8	62	241	363	5	49	26	270	240	571	5	257	26	
					42	172					289	174	
9	29	665	330	5	16	26	275	798	576	5	261	28	
					16	198					289	202	
						½						½	
10	3	292	304	5	3	26	289	542	590	5	276	26	
					52	224					297	228	
												½	
11	44	120	345	5	36	16	297	342	598	5	289	16	
					27	240					278	244	
12	19	588	320	5	11	16	269	075	570	5	260	18	
					22	256					257	262	
13	17	162	318	5	12	10	253	016	554	5	249	8	
					25	266					294	270	
14	20	743	321	5	15	10	289	209	590	5	284	10	
						276						280	

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

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WEATHER SUNNY INST. NO. 96716
TIME 1:05 To 2:45 ROD NO. 9-19
NOTES CHKD. DATE 6-65

F.B. 3740 PG. 88 JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES J.M. MALDONADO
INDEXED G. J. GALLI DATE

STATION	BACKSIGHT Right	Mic.	Left	Stadia		FORESIGHT Right	Mic.	Left	Stadia		DESCRIPTION AND REMARKS
											FROM BM 21-69 TO BM 21-24
				26	276				299	280 ½	
15	20	045	321 5	14	12	299	409	600 5	293	12	
				16	288 ½				249	292	
16	8	782	309 5	8	12	245	985	546 5	241	8	
				24	300				299	300 ½	
17	17	806	318 5	10	14	299	830	600 5	294	10	
				52	314				299	310	
18	52	469	353 5	48	4	299	859	600 5	294	5	
				58	318				270	315	
19	54	896	355 5	50	8	263	240	564 5	256	14	
				59	326				263	329	
20	55	244	356 5	51	8	259	898	560 5	255	8	
				39	334				294	337	
21	34	332	335 5	29	10	290	049	591 5	286	8	
				45	344				274	345	
22	40	190	341 5	35	10	270	405	571 5	266	8	
				17	354				131	353	
23	15	437	316 5	13	4	129	763	430 5	127	4	
					358					357	
TOTAL	2370	274				4664	299				
BM 21-24											

Summation of Run
From B.M. 21-69
To B.M. 21-24

Total Backsights = + 2370.274
Total Foresights = − 4664.299
Diff. Elev. = − 2294.025

Backsight stadia = 358
Foresight Stadia = 357
Total Stadia = 715 METERS

BM 21-24 (HS 1464 Y 1614)
ROSECRANS AVE. & THE STRAND

F.B. 1391-28

76P526 CE # 308 3-61

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L ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

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

SURVEY BY F. E. Brooks WEATHER Clear INST. NO 96761

NOTES BY F. E. Brooks DATE 6 Nov 1964 TIME 9:10 - 10:00 ROD NO. 9-19

INDEXED C. J. GALLI DATE NOTES CHKD. [illegible] DATE JAN 6 '65

F.B. 3740 PG. 89

STATION	BACKSIGHT RIGHT	MIC.	LEFT.		STADIA		FORESIGHT RIGHT	MIC.	LEFT.		STADIA		DESCRIPTION AND REMARKS
													FROM BM 21-24 TO BM 21-69
BM 21-24													BM 21-24 (USC&GS X614)
1	124	412	425	5	128 / 120	8	10	312	311	5	14 / 6	8	ROSECRANS AVE. & THE STRAND
													SEE F.B. 1391-28
2	244	322	545	5	248 / 240	8 / 16	15	908	314	5	17 / 9	8 / 16	
													⊼ Kapp
3	290	407	591	5	295 / 285	10 / 26	33	547	334	5	38 / 28	10 / 26	
4	256	338	557	5	260 / 252	8 / 34	51	900	352	5	56 / 46	10 / 36	
5	252	873	553	5	258 / 246	12 / 46	42	876	343	5	46 / 38	8 / 44	
6	268	550	569	5	272 / 264	8 / 54	22	810	323	5	27 / 17	10 / 54	
7	299	258	600	5	299 / 293	6x2 / 12 / 66	16	340	317	5	23 / 9	14 / 68	
8	245	812	546 ~~550~~	5	248 / 242	6 / 72	18	060	319	5	23 / 13	10 / 78	
9	301	730	602	5	301 / 295	6x2 / 12 / 84	13	165	314	5	19 / 7	12 / 90	
10	300	186	601	5	300 / 294	6x2 / 12 / 96	30	487	331	5	34 / 26	8 / 98	
11	281	935	582	5	286 / 276	10 / 106	48	786	349	5	52 / 44	8 / 106	
12	281	773	582	5	290 / 272	18 / 124	32	793	333	5	40 / 24	16 / 122	
13	276	350	577	5	283 / 269	14 / 138	20	415	321	5	29 / 11	18 / 140	
14	299	600	600	5	299 / 286	13x2 / 26 / 164	15	490	316	5	28 / 2	26 / 166	

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

408 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.

INST. NO. 96761 ROD NO. 9-19 DATE

WEATHER Clear TIME 9:10 – 10:00 NOTES CHKD

F.B. 3746 PG. 90 JOB NO. 1301.02 L.A. Co. Precise Level Net

SURVEY OF F. E. Brooks SURVEY BY F. E. Brooks NOTES

INDEXED G. J. GALLI DATE

STATION	BACKSIGHT Right	Mic.	Left.	Stadia			FORESIGHT Right	Mic.	Left.	Stadia			DESCRIPTION AND REMARKS
						164						166	From BM 21-24 To BM 21-69
15	281	121	582	5	296 / 266	30 / 194	36	178	337	5	49 / 23	26 / 192	
16	276	177	577	5	288 / 264	24 / 218	62	253	363	5	76 / 48	28 / 220	Summation of Run From B.M. 21-24 To B.M. 21-69
17	231	160	532	5	251 / 211	40 / 268	279	677	578	5	295 / 259	36 / 256	Total Backsights = + 4681.204
18	39	151	340	5	48 / 30	18 / 276	289	382	590	5	298 / 280	18 / 274	Total Foresights = − 2387.263
19	38	241	339	5	46 / 30	16 / 292	279	690	580	5	288 / 270	18 / 292	Diff. Elev. = + 2293.941
20	36	457	337	5	44 / 28	16 / 308	271	605	572	5	278 / 263	15 / 307	Backsight stadia = 370
21	34	051	335	5	42 / 26	16 / 324	285	162	586	5	294 / 276	18 / 325	Foresight Stadia = 371
22	17	720	318	5	27 / 7	20 / 344	301	549	602	5	301 / 291	1042 / 20 / 345	Total Stadia = 741 meters
23	3	580	304	5	16 / 3	1342 / 26 / 370	212	878	513	5	225 / 199	26 / 371	
	4681	204					~~2387 477~~ 2387 263						
BM 21-69													BM 21-69 ROSECRANS AVE. & BELL AVE. SEE F.B. 3702-57

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. E. Brooks NOTES BY E. E. Brooks DATE 5 Nov 1964 WEATHER Clear

TIME 7:15 - 7:25 INST. NO. 0-1 ROD NO. 0-1

INDEXED C. J. GALL DATE NOTES CHKD DATE JAN 6 '65

F.B. 7710 Pg. 4

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA		DESCRIPTION AND REMARKS
													FROM BM 21-24 TO BM 21-25
BM21-24													BM 21-24 (USC&GS K614) Rosecrans Ave and The Strand. See F.B. 1391-28
1	81	904	382	5	90 / 72	18	146	912	447	5	155 / 139	18	
2	152	253	453	5	180 / 124	56 / 74	708	192	409	5	135 / 81	54 / 72	TA Mother
3	157	348	458	5	180 / 134	46 / 120	191	732	472	5	197 / 145	52 / 124	
4	164	669	465	5	195 / 134	61 / 181	173	182	474	5	200 / 146	54 / 178	
	556	174					599	998					
BM21-25													BM 21-25 RM #3 The Strand and 32nd St. See F.B. 1391-29

Summation of Run
From B.M. 21-24
To B.M. 21-25

Total Backsights = + 556.174
Total Foresights = − 599.998
Diff. Elev. = − 43.824

Backsight stadia = 181
Foresight Stadia = 178
Total Stadia = 359 meters

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 Clear INST. NO. 21716
TIME 8:50 - 9:05 ROD NO. 9-19
NOTES CHKD [illegible] DATE JAN 6 '65

STATION	BACKSIGHT Right	BACKSIGHT Mic.	BACKSIGHT Left		BACKSIGHT Stadia		FORESIGHT Right	FORESIGHT Mic.	FORESIGHT Left		FORESIGHT Stadia		DESCRIPTION AND REMARKS
													FROM BM21-25 TO BM21-24
BM 21-25													BM 21-25 RM #5 The Strand and 32nd St. See F.B. 1391-29
1	166	822	417	5	194 / 138	56	158	371	459	5	188 / 128	60	
2	163	178	464	5	191 / 135	56 / 112	148	890	449	5	171 / 125	46 / 106	T Kapp
3	114	458	415	5	140 / 88	52 / 164	162	013	463	5	192 / 132	60 / 166	
4	150	656	451	5	159 / 141	18 / 182	182	128	383	5	92 / 72	20 / 186	
	595	114					551	402					
BM 21-24													BM 21-24 (USC&GS M14) Rosecrans Ave and the Strand See F.B. 1391-28

Summation of Run
From B.M. 21-25
To B.M. 21-24

Total Backsights = + 595.114
Total Foresights = − 551.402
Diff. Elev. = + 43.712

Backsight stadia = 182
Foresight Stadia = 186
Total Stadia = 368 meters

F.B. 3746 PG. 92 JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES E. E. Brooks
INDEXED C. J. Gatti DATE

76P526 CE # 308 3-61

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM21-25 TO BM21-25A
BM21-25	172	328	473 5	176 / 168 8	143	523	444 5	147 / 139 8	BM21-25 RM#3 The strand & 32nd St. See FB 1391-29 π Maldonado
BM21-25A									BM 21-25A RM#1 The strand and 32nd St. See F.B. 1391-29

Summation of Run
From B.M. 21-25
To B.M. 21-25A

Total Backsights = 172.328
Total Foresights = − 143.523
Diff. Elev. = +28.805

Backsight stadia = 8
Foresight Stadia = 8
Total Stadia = 16 meters

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

SURVEY BY F. E. Brooks

NOTES BY M Bustrum DATE 11-9-64

INDEXED C. J. GALLI DATE

WEATHER Overcast INST. NO. 96716

TIME 10:10 - 10:15 ROD NO. 4-19

NOTES CHKD. [illegible] DATE JAN 6 '65

F.B. 3740 Pg. 93

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

408 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 BM21-25A TO BM21-25
BM 21-25 A				128				158	BM21-25A RM#1
1	124	988	425 5	120 8	153	604	454 5	148 10	The strand and 32nd St. See F.B. 1391-29
									F. BROOKS
BM 21-25									BM21-25 RM#3 The strand and 32nd St. See F.B. 1391-29

Summation of Run
From B.M. 21-25A
To B.M. 21-25

Total Backsights = -124.988
Total Foresights = -153.604
Diff. Elev. = -28.616

Backsight stadia = 8
Foresight Stadia = 10
Total Stadia = 18 METERS

F.B. 3740 PG. 94

JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY E. E. Brooks NOTES J. MALDONADO

INDEXED C. J. GALLI DATE

WEATHER CLEAR INST. NO. 96716

TIME 10:40 To 10:45 ROD NO. 9-19

NOTES CHKD [illegible] DATE [illegible]

76P526 CE # 308 3-61

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
BM21-25A									FROM BM21-25A TO BM21-26
1	153	561	454 5	181 125 56	147	567	448 5	175 119 56	BM21-25A RM#1 The Strand & 32nd St.
2	128	463	429 5	153 103 50 106	116	584	417 5	141 91 50 106	See FB 1391-29
~~3.~~ 3	123	951	424 5	~~5~~ 149 97 52 158	~~128~~ 185	~~463~~ 652	~~429 5~~ 486 5	211 159 52 158	T Maldonado
4.	106	842	407 5	131 81 50 208	127	602	428 5	152 102 50 208	Summation of Run From B.M. 21-25A To B.M. 21-26
5	159	613	460 5	186 132 54 262	103	045	404 5	130 76 54 262	Total Backsights = + ~~829.251~~ 793.251
6.	120	821	421 5	133 107 26 288	185	629	486 5	198 172 26 288	Total Foresights = − 866.079
	~~829~~ 793	~~251~~ 251			866	079			Diff. Elev. = − ~~36.828~~ −72.828
BM21-26									BM21-26 (Torrance C-1A) The Strand E 24th St.
									See FB 3702-65
									Backsight stadia = 288
									Foresight Stadia = 288
									Total Stadia = 576

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

SURVEY BY F. E. Brooks

NOTES BY M. Bustrum DATE 11-9-64

INDEXED C. J. GALLI DATE

WEATHER overcast INST. NO. 96716

TIME 10:15-10:40 ROD NO. 9-19

NOTES CHKD [illegible] DATE [illegible]

F.B. 3740 PG. 95

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
BM 21-26									FROM BM 21-26 TO BM 21-25A
				198				134	BM 21-26 (Torrance C-1A) The Strand & 24th St.
1	185	228	486 5	172 26	121	328	422 5	108 26	See FB 3702-65
				120				172	
2	93	412	394 5	66 54 80	146	611	447 5	120 52 78	F. BROOKS
				142				125	
3	116	788	417 5	90 52 132	100	282	401 5	75 50 128	
				201				138	Summation of Run From B.M. 21-26 To B.M. 21-25A
4	175	895	476 5	149 52 184	112	422	413 5	86 52 180	
				132				168	
5	107	863	408 5	82 50 234	142	368	443 5	116 52 232	
				185				170	
6	157	900	458 5	129 56 290	141	098	442 5	112 58 290	Total Backsights = + 837.086
	837	086			764	109			Total Foresights = − 764.109
									[illegible] = + 72.977
BM 21-25A									BM 21-25A RM #1 The Strand & 32nd St. See FB 1391-29
									Backsight stadia = 290
									Foresight Stadia = 290
									Total Stadia = 580 METERS

WEATHER CLEAR INST. NO. 96716
TIME 9:10 TO 9:40 ROD NO. 9-19
NOTES CHKD [illegible] DATE JAN 7 '65

F.B. 3740 PG. 96 JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Line
SURVEY BY R. E. Brook NOTES J. MALDONADO
INDEXED C. J. GALLI DATE

76P526 CE # 308 3-61

PLEASE RETURN TO

L[illegible] ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

[illegible]E: ANY ADDITIONS OR CHANGES [illegible] HIS SHEET MUST BE MADE OR C[illegible]LED 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. E. Brooks

NOTES BY F. E. Brooks DATE 9 Nov 1964

INDEXED C. J. GALLI DATE

WEATHER Clear

TIME 10:40-10:50

NOTES CHKD [illegible] DATE JAN 7 '65

INST. NO. 96716

ROD NO. 9-19

F.B. 7740 Pg. 99

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM BM21-26 TO BM26A
BM21-26									BM21-26 (Torrance, C-1A) The strand & 24th St.
1	284	180	585 5	296 272 24	46	721	347 5	57 35 22	
2	262	723	563 5	286 238 48 72	142	199	443 5	166 118 48 70	See FB 3702-65
3	135	751	436 5	141 129 12 84	179	429	480 5	186 172 14 84	✓ π Maldonado
*	682	654 ✓			368	349 ✓			
BM21-26A									BM21-26A (USC&GS J-1052) The strand and Marine Ave See F.B. 1391-30A

Summation of Run
From B.M. 21-26
To B.M. 21-26A

Total Backsights = + 682.654 ✓
Total Foresights = − 368.349 ✓
Diff. Elev. = + 314.305 ✓

Backsight stadia = 84 ✓
Foresight Stadia = 84 ✓
Total Stadia = 168 meters

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM21-26A TO BM21-26
BM21-26A									BM21-26A (USC&GS J-1052)
				193				155	The strand and Marine
1	186	993	487 5	179 14	149	702	450 5	143 12	Ave
				172				187	See F.B. B91-30A
2	148	278	449 5	124 48 62	163	678	464 5	139 48 60	
				38				275	⊼ F. BROOKS
3	27	709	328 5	16 22 84	264	8~~8~~9 7	565 5	253 22 82	
				41				140	
4	35	817	336 5	29 12 96	134	805	435 5	128 12 94	
BM21-26	398	797			713	082			BM21-26 (Torrance C-1A)
									the strand and 24th St.
									see F.B. 3702-65

Summation of Rm
From B.M. 21-26A
To B.M. 21-26

Total Backsights = +398.797
Total Foresights = −713.082
Diff. Elev. = −314.285

Backsight stadia = 96
Foresight Stadia = 94
Total Stadia = 190 METERS

F.B. 3740 PG. 98

JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY E. E. Brooks NOTES J. MALDONADO

INDEXED D. J. GALLI DATE

WEATHER CLEAR INST. NO. 96716

TIME 8:50 TO 9:10 ROD NO. 9-19

NOTES CHKD. [illegible] DATE JAN 7 '65

76P526 CE # 308 3-61

PLEASE RETURN TO

L[illegible] ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

N[illegible]E: ANY ADDITIONS OR CHANGES [illegible] HIS SHEET MUST BE MADE OR C[illegible]LED 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 BM21-26A TO BM21-28
BM21-26A									BM21-26A (USC&GS J-1052) The Strand & Marine Ave
1	187	441	488 5	216 158 58	126	342	427 5	155 97 58	
2	216	211	517 5	242 190 52 110	111	233	412 5	137 85 52 110	See FB 1391-30A
3	125 ~~126~~	921	426 5	152 98 54 164	170	362	471 5	198 142 56 166	T Maldonado
4	197	680	498 5	223 171 52 216	85	795	386 5	111 59 52 218	Summation of Run From B.M. 21-26A To B.M. 21-28
5	164	933	465 5	190 138 52 268	165	943	466 5	192 138 54 272	
6	90	838	391 5	118 62 56 324	196	306	497 5	221 171 50 322	Total Backsights = + 1203.141
7	92	010	393 5	120 64 56 380	253	758	554 5	282 224 58 380	Total Foresights = − 1597.209
8	74	304	375 5	83 65 18 398	246	670	547 5	256 236 20 400	Diff. Elev. = − 394.068
9	53	803	354 5	62 44 18 416	240	800	541 5	250 230 20 420	Backsight stadia = 416
	1203	141			1597	209			Foresight Stadia = 420
									Total Stadia = 836 meters
BM21-28									BM21-28 (Torrance C-2) Manhattan Beach Blvd and Municipal Pier see F.B. 3702-69

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

SURVEY BY F. E. Brooks

NOTES BY E. E. Brooks DATE 9 Nov 1964

INDEXED C. J. GALLI DATE

WEATHER Clear-Windy INST. NO. 96716

TIME 10:50 - 11:25 ROD NO. 9-19

NOTES CHKD [illegible] DATE JAN 7 '65

F.B. 3740 PG. 99

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
BM 21-28									FROM BM 21-28 TO BM 21-26A
				241				53	BM 21-28 (Torrance C-2)
1	232	641	533 5	223 18	44	178	345 5	35 18	Manhattan Beach Blvd
				259				88	and Municipal Pier.
2	250	579	551 5	241 18	79	533	380 5	70 18	See F.B. 3702-69
				284 36				122 36	T F. BROOKS
3	256	288	557 5	228 56	94	985	395 5	66 56	
				229 92				124 92	
4	203	719	504 5	177 52	98	498	399 5	72 52	
				198 144				196 144	
5	171	512	472 5	144 54	178	893	471 5	144 ~~54~~ 52	Summation of Run
				119 198				232 196	From B.M. 21-28
6	94	332	395 5	69 50	207	233	508 5	182 50	To B.M. 21-26A
				206 248				158 246	
7	178	134	479 5	150 56	131	989	432 5	104 54	Total Backsights = + 1626.156
				142 304				248 300	Total Foresights = − 1232.259
8	117	306	418 5	92 50	222	312	523 5	196 52	Diff. Elev. = +383.897
				149 354				217 352	
9	121	645	422 5	94 55	182	638	483 5	152 55	Backsight stadia = 409
				409				407	Foresight Stadia = 407
	1626	156			1232	259			Total Stadia = 816 meters
BM 21-26A									BM 21-26A (USCGS J-1052)
									The Strand and Marine
									Ave
									See F.B. 1391-30A

F.B. 3740 PG. 100 JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY F. E. Brooks NOTES J. MALDONADO

INDEXED C. J. GALLI DATE

WEATHER SUNNY & WINDY INST. NO. 96716

TIME 2:55 TO 3:35 ROD NO. 9-19

NOTES CHKD [signature] DATE JAN 7 '65

76P526 CE # 308 3-61

PLEASE RETURN TO

L[illegible] ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

[illegible]E: ANY ADDITIONS OR CHANGES [illegible] HIS SHEET MUST BE MADE OR C[illegible]LED 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 BM21-28 TO BM21-29
BM21-28									BM21-28 (Torrance C-2) Manhattan Beach Blvd & Municipal pier.
1	195	602	496 5	199 191 8	146	963	447 5	150 142 8	See FB 3702-69 π MALDONADO
BM 21-29									BM 21-29 (U.S.C.&G.S 20 (USGS)) MANHATTEN BEACH, BLVD., & Municipal pier
									See FB 3702-69

Summation of Run
From B.M. 21-28
To B.M. 21-29

Total Backsights = + 195.602
Total Foresights = − 146.963
Diff. Elev. = + 48.639

Backsight stadia = 8
Foresight Stadia = 8
Total Stadia = 16

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

SURVEY BY

NOTES BY M Bustrum DATE 11-9-64

INDEXED C. J. GALLI DATE

WEATHER over Cast INST. NO. 96716

TIME 11:30-11: ROD NO. 9-14

NOTES CHKD [illegible] DATE [illegible] 7 '65

F.B. 3740 PG. 101

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F.B. 3740 PG. 102 JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY E. E. Brooks NOTES M Bustrum

INDEXED C. J. GALLI DATE

WEATHER Overcast INST. NO. 86716

TIME 11:35 ROD NO. 9-19

NOTES CHKD. [illegible] DATE

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM 21-29 TO BM 21-28
BM 21-29									BM 21-29 (U.S.C. & G.S. 20) Manhattan Beach Blvd & Municipal Pier See FB 3702-69 & Maldonado
1	142	561	443	5 146 138 8	191	193	492	5 195 187 8	
BM 21-28									BM 21-28 (Torrance C-2) Manhattan Beach Blvd & Municipal Pier See FB 3702-69

Summation of Run
From B.M. 21-29
To B.M. 21-28

Total Backsights = + 142.561
Total Foresights = − 191.193
Diff. Elev. = − 48.632

Backsight stadia = 8
Foresight Stadia = 8
Total Stadia = 16 meters

76P526 CE # 308 3-61

PLEASE RETURN TO

L ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM BM21-29 TO BM21-30
BM21-29							BM21-29 (U.S.G.S. 20) Manhattan Beach Blvd & Municipal Pier
1	218 562	5195	223 213 10	208 302	5095	212 204 8	
							See FB 3702-69 π Maldonado
BM 21-30							BM 21-30 (U.S.G.S. 5 50) Manhattan Beach Blvd & Municipal pier See FB 3702-70

Summation of Run
From B.M. 21-29
To B.M. 21-30

Total Backsights = 218.562'
Total Foresights = -208.302'
Diff. Elev. = +10.260'

Backsight stadia = 10'
Foresight Stadia = 8'
Total Stadia = 18 meters

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

SURVEY BY M. Bustum F.E. Brooks DATE 11-9-64 WEATHER Overcast INST. NO. 26716

NOTES BY C.J. GALLI DATE TIME 11:40 ROD NO. 5-18

INDEXED DATE NOTES CHKD DATE JAN 7 '65

F.B. 3740 PG. 103

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM 21-30 TO BM 21-29
BM 21-30									BM 21-30 (U.S.G. & G.S. 5.50) Manhatten Beach Blvd & Municipal Pier See FB 3702-70
1	204	672	505 5	208 200 8	214	943	515 5	219 209 10	
BM 21-29									BM 21-29 (U.S.G. & G.S. 5-20) Manhatten Beach Blvd & Municipal Pier. See FB 3702-69

Summation of Run
From B.M. 21-30
To B.M. 21-29

Total Backsights = + 204.672
Total Foresights = − 214.943
Diff. Elev. = − 10.271

Backsight stadia = 8
Foresight Stadia = 10
Total Stadia = 18 meters

WEATHER Overcast INST. NO. 96716
TIME 11:40 ROD NO. 9-19
NOTES CHKD [illegible] DATE 7 '65

F.B. 3740 PG. 104 JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY F. E. Brooks NOTES M Bustrum
INDEXED G. J. GALLI DATE

76P526 CE # 308 3-61

PLEASE RETURN TO

L[illegible] ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

[illegible]E: ANY ADDITIONS OR CHANGES [illegible] HIS SHEET MUST BE MADE OR C[illegible]LED 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 BM21-30 TO BM21-31
BM21-30									BM21-30 (U.S.C.&G.S. 550) Manhattan Beach Blvd. & Municipal Pier.
1	293	251	594 5	299 287 12	92	878	393 5	98 86 12	
2	222	803	523 5	246 198 48 60	173	316	474 5	197 149 48 60	See FB 3702-70
3	123	178	424 5	150 96 54 114	181	869	482 5	208 154 54 114	T Maldonado
4	64	032	365 5	92 36 56 170	171	180	492 5	200 142 58 172	Summation of Run From B.M. 21-30 To B.M. 21-31
5	148	197	449 5	172 124 48 218	133	528	534 5	155 111 44 216	
	851	461			752	771			
6									
									Total Backsights = + 851.461
									Total Foresights = − 752.771
									Diff. Elev. = +98.690
BM21-31									BM21-31 (U.S.C.&G.S. C 768) The Strand & 6th St. See FB 3702-71
									Backsight stadia = 218
									Foresight Stadia = 216
									Total Stadia = 434 Meters

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

SURVEY BY

NOTES BY M Bustrun DATE 11-9-64

INDEXED [illegible] DATE

WEATHER Overcast INST. NO. 96716

TIME 1:00-1:15 ROD NO. 9-19

NOTES CHKD [illegible] DATE JAN 7 '65

F.B. 3740 PG. 105

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F.B. 3700 PG. 106 JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY E. Brooks NOTES All Bust in wet

INDEXED G. J. GALLI DATE

WEATHER Windy INST. NO. 96116

TIME 8:30 - 12:45 ROD NO. 9-19

NOTES CHKD. [illegible] DATE 7 '65

STATION	BACKSIGHT Right Mic.	BACKSIGHT Left.	BACKSIGHT Stadia	FORESIGHT Right Mic.	FORESIGHT Left.	FORESIGHT Stadia	DESCRIPTION AND REMARKS
							FROM BM 21-31 TO BM 21-30
BM 21-31							BM 21-31 (USC&GS-C7LB) The Strand & 6th St
1	138 429	4395	161 115 46	154 112	4555	177 131 46	See FB 3702-71
2	172 518	4335	200 144 56 102	72 891	3735	100 44 56 102	11th Brooks
3	190 591	4415	216 164 52 156	122 945	4235	148 92 52 154	
4	177 096	4785	201 153 48 202	226 638	5275	250 202 48 202	Summation of Run From B.M. 21-31 To B.M. 21-30
~~X~~	~~186 400~~	~~4075~~	~~144 100 44~~			~~5~~	
5.	99 502	4005	105 93 12 44	300 233	601 5	300 6x2 294 12 214	
	778 131			876 819			Total Backsights = + 778.131
							Total Foresights = − 876.819
							Diff. Elev. = −98.688
BM 21-30							BM 21-30 (USC&GS 9-50 Manhattan Beach Blvd & Municipal pier
							See FB 3702-70
							Backsight stadia = 214
							Foresight Stadia = 214
							Total Stadia = 428 meters

76P526 CE # 308 3-61

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

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

Do not extend notes this side of this line.

STATION	BACKSIGHT Right	Mic.	Left	Stadia	FORESIGHT Right	Mic.	Left	Stadia	DESCRIPTION AND REMARKS
									From BM21-31 To BM21-32A
BM 21-31									BM21-31 (u.p.c. & 6 s "C 768") The Strand & 6th St.
1	137	890	438	5 142 132 10	142	497	443	5 147 137 10	
2	149	679	450	5 175 123 52 CE	166	189	467	5 192 140 52 CE	See FB 3702-71
3	123	699	424	5 148 98 50 112	176	873	477	5 202 150 52 114	T Maldonado
4	126	702	427	5 153 99 54 116	150	122	451	5 177 123 54 116	
5	86	540	387	5 106 66 40 206	241	709	542	5 262 220 42 210	
6	50	013 ~~446~~	351	5 56 44 12 218	215	235	516	5 220 210 10 220	
	674	083			1092	605			
BM 21-32A									BM 21-32A The Strand and 55th St. See F.B. ~~[illegible]~~ 1391-34

Summation of Run
From B.M. 21-31
To B.M. 21-32A

Total Backsights = + 674.083
Total Forsights = − 1092.605
Diff. Elev. = − 418.522

Backsight stadia = 218
Foresight Stadia = 220
Total Stadia = 438 metrs

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET
SURVEY BY F. E. Brooks
NOTES BY F. E. Brooks
INDEXED G. J. GALL
DATE 9 Nov 1964
DATE
WEATHER August - Windy
TIME 1:15 - 1:25
NOTES CHKD
INST. NO. 26816
ROD NO. 9.19
DATE
F.B. 3770
Pg. 189

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

WEATHER SUNNY & WINDY INST. NO. 8-7-76
TIME 2:05 To 2:30 ROD NO. 9-19
NOTES CHKD DATE JAN 7 '63

F.B. 3740 PG. 108 JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY E. F. Brooks NOTES J. MALDONADO
INDEXED C. J. GALLI DATE

STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM BM21 32A TO BM21-31
BM 21-32A							BM 21 32A The Strand and 75th St. See F.B. 1391-34
1	214 944	515 5	219 209 10 252	50 138	351 5	55 45 10 90	
2	232 175	583 5	212 40 181 50	74 922	375 5	54 36 157 46	T - F. Brooks
3	154 588	455 5	128 53 205 103	131 277	432 5	105 52 154 98	
4	180 502	481 5	153 50 198 153	129 999	430 5	104 50 189 148	
5	173 186	474 5	148 50 152 203	157 915	458 5	130 54 145 202	
6	147 660	448 5	142 10 213	140 387	441 5	135 10 212	
	1103 055			684 638			
BM21-31							BM21-31 (USC&GS C76B) The Strand and 6th St. See F.B. 3702-71

Summation of Run
From B.M. 21-32A
To B.M. 21-31

Total Backsights = + 1103.055
Total Foresights = − 684.638
Diff. Elev. = + 418.417

Backsight stadia = 213
Foresight Stadia = 212
Total Stadia = 425 meters

76P526 CE # 308 3-61

PLEASE RETURN TO

L ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM BM21-32A TO BM21-32
BM 21-32A							BM21-32A The Strand & 35th St.
	182 200	483 5	185 199 6	276 010	577 5	278 274 4	See FB 1391-34
BM 21-32							BM21-32 (Torrance D-3) The strand and 35th St. See F.B. 3702-

Summation of Run
From B.M. 21-32A
To B.M. 21-32

Total Backsights = + 182.200
Total Foresights = − 276.010
Diff. Elev. = − 93.810

Backsight stadia = 6
Foresight Stadia = 4
Total Stadia = 10 meters.

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

SURVEY BY E. E. Brooks

NOTES BY E. E. Brooks

INDEXED G. J. GALLI

DATE 9 Nov 1964

DATE

WEATHER Overcast - Windy

TIME 1:45

NOTES CHKD

DATE

INST. NO. 96776

ROD NO. 2-19

DATE JAN 7 '65

F.B. 3740 PG. 109

PLEASE RETURN TO

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM 21-32 TO BM 21-32A
BM 21-32									BM 21-32 (Torrance D-3) The strand and 35th St. See F.B. 3702-73
1	272	995	573 5	274 270 4	179	046	480 5	182 176 6	
									T Brooks
BM 21-32A									BM 21-32A The strand and 35th St. See F.B. 1391-34

Summation of Run
From B.M. 21-32
To B.M. 21-32A

Total Backsights = + 272.995
Total Foresights = − 179.046
Diff. Elev. = + 93.949

Backsight stadia = 4
Foresight Stadia = 6
Total Stadia = 10 METERS

F.B. 3740 PG. 110
JOB NO. 0341.02
SURVEY OF LA Co. Precise Level Net
SURVEY BY E. Brooks NOTES M. Bustrum
INDEXED L. J. GALLI DATE

WEATHER WINDY INST. NO. 8676
TIME 2:00 ROD NO. 8-19
NOTES CHKD [illegible] DATE JAN 7 '63

76P526 CE # 308 3-61

PLEASE RETURN TO

L ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR COLLED 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 BM21-32 TO BM21-33
BM21-32									BM21-32 (Torrance, D-3) The Strand & 35th St.
1	279	418	580 5	279 23x2 / 256 46	150	848	451 5	174 / 126 48	
2	149	934	450 5	176 / 122 54 / 100	147	838	448 5	173 / 121 52 / 100	See FB 3702-73
3	147	931	448 5	171 / 123 48 / 148	149	691	450 5	173 / 125 48 / 148	π Maldonado
4	149	626	450 5	174 / 124 50 / 198	149	128	450 5	175 / 123 52 / 200	Summation of Run From B.M. 21-32 To B.M. 21-33
5.	147	688	448 5	172 / 122 50 / 248	150	610	451 5	175 / 125 50 / 250	
6.	165	541	466 5	191 / 139 52 / 300	147	417	448 5	171 / 121 50 / 300	Total Backsights = + 1768.191
7.	158	678	459 5	171 / 145 26 / 326	7	940	308 5	20 13x2 / 7 26 / 326	Total Foresights = − 1371.412
8.	272	128	573 5	278 12 / 266 / 338	153	139	454 5	160 / 146 14 / 340	Diff. Elev. = + 396.779
9.	132	309	433 5	153 / 111 42 / 380	160	580	461 5	180 / 140 40 / 380	Backsight stadia = 396
10.	164	938	465 5	172 / 156 16 / 396	154	221	455 5	162 / 146 16 / 396	Foresight Stadia = 396
	1768	191			1371	412			Total Stadia = 792 meters
BM21-33									BM21-33 (U.S.C.&G.S.Z 7671) Hermosa Ave & 25th St. See FB. 1391-35

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

SURVEY BY P. E. Brooks

NOTES BY M Bustrum DATE 11-9-64

INDEXED C. J. GALLI DATE

WEATHER windy INST. NO 96716

TIME 205 - 2:50 ROD NO 9-19

NOTES CHKD. [illegible] DATE JAN 7 '65

F.B. 3740 PG. 111

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

INST. NO. 96716
ROD NO. 8-19
DATE JAN 7 '65
WEATHER Windy
TIME 1:15 - 1:35
NOTES CHKD. [illegible]

STATION	BACKSIGHT			FORESIGHT			DESCRIPTION AND REMARKS
	RIGHT MIC.	LEFT.	STADIA	RIGHT MIC.	LEFT.	STADIA	FROM BM 21-33 TO BM 21-32
BM 21-33							BM 21-33 (USC&GS 2767) Hermosa Ave & 25th St.
1.	156 666	4575	164 / 148 16	167 709	4685	175 / 159 16	See FB 1391-35
2.	169 475	4705	189 / 149 40 / 56	140 422	4415	160 / 120 40 / 56	T Brooks
3.	155 831	4565	162 / 148 14 / 70	272 848	5735	279 / 266 13 / 69	Summation of Run From B.M. 21-33 To B.M. 21-32
4.	3 540	3045	16 / 13 42 / 3 26 / 96	157 370	4585	170 / 144 26 / 95	
5.	147 283	4485	172 / 122 50 / 146	164 682	4655	190 / 138 52 / 147	Total Backsights = + 1407.800 Total Foresights = − 1804.362 Diff. Elev. = − 396.562
6.	152 882	4535	177 / 127 50 / 196	150 941	4515	174 / 126 48 / 195	
7.	156 827	4585	182 / 130 52 / 248	156 473	4575	182 / 131 51 / 246	
8.	156 738	4575	180 / 132 48 / 296	150 524	4515	174 / 126 48 / 294	Backsight stadia = 394 Foresight Stadia = 394 Total Stadia = 788 meters
9.	156 097	4525	175 / 125 50 / 346	157 271	4585	184 / 130 54 / 348	
10.	157 521	4585	181 / 133 48 / 394	286 112	5075	286 23x2 / 263 46 / 394	
	1407 800			1804 362			
BM 21-32							BM 21-32 (Torrance D-3) The Strand & 35th St. See FB 3702-73

F.B. 3740 PG. 112
JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY E.E. Brooks NOTES M. Bustamante
INDEXED C. J. GALLI DATE

76P526 CE # 308 3-61

PLEASE RETURN TO

L ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	MIC.	LEFT.	STADIA	FORESIGHT RIGHT	MIC.	LEFT.	STADIA	DESCRIPTION AND REMARKS FROM BM21-33 TO BM21-34
BM21-33									BM 21-33 (USC&GS 2767)
1	105	792	406 5	130 80 50	160	503	461 5	186 134 52	Hermosa Ave & 25th St.
2	129	637	430 5	145 113 32 82	174	899	475 5	190 158 32 84	See FB 1391-35
3	46	920	347 5	60 32 28 110	230	811	531 5	245 215 30 114	π Maldonado
4	141	482	442 5	168 114 54 164	152	170	453 5	177 127 50 164	
5	156	091	457 5	182 130 52 216	152	092	453 5	178 126 52 216	
6	153	094	454 5	179 127 52 268	151	550	452 5	177 125 52 268	
7	153	476	454 5	159 148 10 278	179	200	480 5	184 174 10 278	
	886	492			1201	225			
BM21-34									BM 21-34 (Torrance D-4) the strand and 19th St. See F.B. 1391-36

Summation of Run
From B.M. 21-33
To B.M. 21-34

Total Backsights = + 886.492
Total Foresights = − 1201.225
Diff. Elev. = − 314.733

Backsight stadia = 278
Foresight Stadia = 278
Total Stadia = 556 METERS

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

SURVEY BY E. E. Brooks DATE 9 Nov. 1964 WEATHER Clear INST. NO. 96716

NOTES BY E. E. Brooks DATE 9 Nov. 1964 TIME 2:50 - 3:15 ROD NO. 9-19

INDEXED C. J. GALLI DATE NOTES CHKD. [illegible] DATE JAN 7 '65

F.B. 3740 Pg. 113

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F.B. 3946 PG. 114 JOB NO. 8301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY F. E. Brooks NOTES T. Maldonado

INDEXED C. J. GALLI DATE

WEATHER Windy & OVERCAST INST. NO. 96776

TIME 9:30 To ROD NO. 9-19

NOTES CHKD DATE JAN 7 '65

STATION	BACKSIGHT Right	Mic.	Left	Stadia		FORESIGHT Right	Mic.	Left	Stadia		DESCRIPTION AND REMARKS
											FROM BM21-34 TO BM21-33
BM21-34											BM21-34 (Torrance D-4)
				190					163		The strand and 19th St.
1	185	470	486 5	180	10	158	711	459 5	153	10	See F.B. 1391-36
				189					192		
2	163	732	464 5	136	53 63	166	494	467 5	140	52 62	T - F. Brooks
				190					193		
3	164	482	465 5	138	52 115	167	327	468 5	141	52 114	Summation of
				186					176		From B.M. 21-34
4	160	608	461 5	134	52 167	150	735	451 5	124	52 166	To B.M. 21-33
				254					70		
5	240	035	541 5	226	32 199	56	388	357 5	42	28 194	Total Backsights = + 1256.357
				187					144		Total Foresights = − 941.772
6	173	869	474 5	159	28 227	128	672	429 5	112	32 226	Diff. Elev. = + 314.585
				193					138		
7	168	161	469 5	143	50 277	113	445	414 5	88	50 276	Backsight stadia = 277
	1256	357				941	772				Foresight Stadia = 276
											Total Stadia = 553 METERS
BM21-33											BM21-33 (USC&GS Z 767)
											The strand and 25th St.
											See F.B. 1391-35

76P526 CE # 308 3-61

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES TO THIS SHEET MUST BE MADE OR CHECKED 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 E. E. Brooks

NOTES BY R. MATHER DATE 11-16-1964 TIME 9:25-9:55 WEATHER Clear

INDEXED C. J. GALLI DATE NOTES CHKD DATE

INST. NO. 96176 ROD NO. 9-19

F.B. 3940 PG. 115

STATION	BACKSIGHT Right	Mic.	Left	Mic.	Stadia		FORESIGHT Right	Mic.	Left	Mic.	Stadia		DESCRIPTION AND REMARKS
													FROM BM21-34 TO BM21-35
BM21-34													BM21-34 (Torrance D-4 The Strand & 19th St.
1	183	262	484	5	157 / 209	52	163	602	464	5	137 / 189	52	
2	157	773	458	5	184 / 130	54 / 106	157	055	458	5	184 / 130	54 / 106	See FB 1391-36
3	156	622	457	5	182 / 130	52 / 158	157	120	458	5	183 / 131	52 / 158	T Kapp
4	155	488	456	5	182 / 128	54 / 212	169	508	470	5	196 / 142	54 / 212	Summation From B.M. 21-34 To B.M. 21-35
5	151	332	452	5	171 / 131	40 / 252	165	373	466	5	188 / 142	46 / 258	
6	159	248	460	5	181 / 131	50 / 302	157	800	458	5	176 / 138	38 / 296	Total Backsights = + 1271.066 ✓
7	175	770	476	5	192 / 158	34 / 336	150	205	451	5	168 / 132	36 / 332	Total Foresights = − 1199.205 ✓
8	131	571	432	5	133 / 129	4 / 340	78	542		5	81 / 75	6 / 338	Diff. Elev. = + 71.861 ✓
	1271	066 ✓					1199	205 ✓					Backsight stadia = 340 ✓
							USED STEEL TAPE						Foresight Stadia = 338 ✓
													Total Stadia = 678 meters
BM. 21-35													BM. 21-35 (USC&GS T-50) HERMOSA AVE & 13TH ST SEE F.B. 1391 pg. 37

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F.B. 3740 PG. 116 JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY E. E. Brook NOTES

INDEXED C. J. GALLI DATE

WEATHER Clear INST. NO. 96716

TIME 7:00-7:30 ROD NO. 9-19

NOTES CHKD. [illegible] DATE JUL 7 '65

STATION	BACKSIGHT Right	Mic.	Left.	Stadia	FORESIGHT Right	Mic.	Left.	Stadia	DESCRIPTION AND REMARKS
									From BM. 21-35 To BM. 21-34
BM-21-35									B.M. 21-35 (USC&GS T-50) HERMOSA AVE & 13TH ST. SEE F.B. 1391-37
1	104	828		106 102 4	158	109	459 5	160 156 4	
2	153	402	454 5	138 136 34 38	180	938	481 5	198 162 36 40	T Kapp steel tape used on backsight
3	160	013	461 5	180 140 40 78	159	188	460 5	180 138 42 82	
4	168	698	469 5	191 145 46 124	155	705	456 5	174 132 38 120	Summation of Run From B.M. 21-35 To B.M. 21-34
5	174	762	475 5	200 148 52 176	157	732	458 5	185 129 56 176	
6	153	723	454 5	179 127 52 228	160	665	461 5	186 134 52 228	Total Backsights = + 1252.752 ✓ Total Foresights = − 1324.005 ✓ Diff. Elev. = − 71.753 ✓
7	164	172	465 5	190 138 52 280	158	720	459 5	185 131 54 284	
8	172	654	473 5	198 146 52 332	192	948	493 5	218 166 52 334	
	1252	752 ✓			1324	005 ✓			Backsight stadia = 332 ✓ Foresight Stadia = 334 ✓ Total Stadia = 666 meters
BM. 21-34									B.M. 21-34 (Torrance D-4) THE STRAND & 19TH ST. SEE F.B. 1391-36

76P526 CE # 308 3-61

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

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

Do not extend notes this side of this line.

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET
SURVEY BY E. E. Brooks
NOTES BY E. E. Brooks DATE 16 Nov 1964 WEATHER Clear
INDEXED E. J. GALL DATE NOTES CHKD DATE JAN 7 '65
TIME 10:00 - 10:30 INST. NO. 66716 ROD NO. 9-19
F.B. 3140 Pg. 117

STATION	BACKSIGHT Right	Mic.	Left	Stadia	FORESIGHT Right	Mic.	Left	Stadia	DESCRIPTION AND REMARKS
									FROM BM21-35 TO BM21-37
BM21-35									BM21-35 (USC&GS 7-50) Hermosa Ave & 13th St.
1	89	732		92 / 86 0	142	750	443 5	144 / 140 4	
2	149	936	450 5	166 / 132 34	177	452	476 5	195 / 159 36	See FB. 1391-37
3	160	461	461 5	180 / 140 40 / 40 / 80	159	892	460 5	180 / 138 40 / 42 / 82	π Kapp steel tape used for backsight
4	154	020	455 5	181 / 127 54 / 134	153	820	454 5	180 / 126 54 / 136	
5	157	490	458 5	184 / 130 54 / 188	154	805	455 5	181 / 127 54 / 190	Summation of Run From B.M. 21-35 To B.M. 21-37
6	168	213	469 5	194 / 142 52 / 240	149	266	450 5	175 / 123 52 / 242	
7	166	596	467 5	190 / 142 48 / 288	159	419	458 5	181 / 133 48 / 290	
8	164 / ~~157~~	681	465 / ~~458~~ 5	191 / 137 54 / 342	157	876	458 5	183 / 131 52 / 342	Total Backsights = + 1531.509 ✓
9	159	288	460 5	184 / 134 50 / 392	162	946	463 5	187 / 137 50 / 392	Total Foresights = − 1600.734 ✓
10	161	090	462 5	172 / 150 22 / 414	184	508	485 5	195 / 173 22 / 414 ✓	Diff. Elev. = − 69.225 ✓
	1531	509 ✓			1600	734 ✓			Backsight stadia = 414 ✓
									Foresight Stadia = 414
									Total Stadia = 828 meters.
BM21-37									BM21-37 (Torrance E-6B) The strand and 5th St. See F.B. 1391-39

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	MIC.	LEFT.	STADIA	FORESIGHT RIGHT	MIC.	LEFT.	STADIA	DESCRIPTION AND REMARKS
									FROM BM 21-37 TO BM 21-35
BM 21-37									BM 21-37 (Torrance E-LB) The Strand and 5th St.
1	185	983	486 5	196 174 22	162	563	463 5	174 150 24	see F.B. 1391-39
2	164	208	465 5	190 138 52	162	884	463 5	187 137 50	π KAPP
				74				74	
3	158	662	459 5	185 131 54	162	750	463 5	189 135 54	
				128				128	
4	154	481	455 5	178 130 48	164	510	465 5	188 140 48	
				176				176	
5	150	110	451 5	176 124 52	168	732	469 5	194 142 52	Summation of Run From B.M. 21-37 To B.M. 21-35
				228				228	
6	154	480	455 5	181 127 54	156	639	457 5	183 129 54	
				282				282	
7	154	160	455 5	180 128 52	154	673	455 5	181 127 54	Total Backsights = + 2102.789
				334				336	Total Foresights = − 2033.614
8	164	000	465 5	187 141 46	151	098	452 5	171 131 40	Diff. Elev. = +69.175
				380				376	
9	177	778	478 5	203 151 52	159	740	460 5	185 133 52	Backsight stadia = 602
				432				428	Foresight Stadia = 600
10	153	847	454 5	188 118 70	176	662	477 5	211 141 70	Total Stadia = 1202 - matrix
				502				498	
11	159	319	460 5	185 133 52	160	235	461 5	187 133 54	
				554				552	
BM 21-35 (12)	167	636	468 5	189 145 44	148	300	449 5	170 126 44	BM 21-35 (USC&GS T-50) Hermosa Ave and 13th St.
				598				596	
13	158	125	459 5	160 156 4	104	828	— 5	106 102 4	See F.B. 1391-37
	2102	789		602	2033	614		600	

USED STEEL TAPE

WEATHER CLEAR INST. NO. 96716
TIME 2:20 - 3:00 ROD NO. 9-19
NOTES CHKD. [illegible] DATE JAN 7 '65

JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES MATHER
INDEXED C. J. GALLI DATE

F.B. 3740 PG. 118

76P526 CE # 308 3-61

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

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

Do not extend notes this side of this line.

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

SURVEY BY E.E. Brooks WEATHER CLEAR

NOTES BY E.E. Brooks E. Mather DATE 11-16-64 TIME 10:35 11:00 INST. NO. 26716

INDEXED C.J. GALLI DATE NOTES CHKD DATE ROD NO. 9-19

F.B. 3740 Pg. 119

STATION	BACKSIGHT Right	Mic.	Left	Stadia	FORESIGHT Right	Mic.	Left	Stadia	DESCRIPTION AND REMARKS
									From BM21-37 To BM21-38
BM21-37									BM21-37 (Torrance E-68) The Strand & 5th St.
1	187	892	488	5	158	892	459	5	212 162 50 / 183 133 50
2	159	508	460	5	157	530	458	5	184 134 50 / 183 131 52 — See FB 1391-39
3	161	688	462	5	156	910	457	5	186 136 50 100 / 185 132 56 102
4	158	521	459	5	156	573	457	5	184 132 52 150 / 182 130 52 152
5	160	515	461	5	159	488	460	5	186 134 52 202 / 184 134 50 204
6	156	716	457	5	184	161	485	5	167 145 22 254 / 192 174 20 254
				276				274	
	984	840			973	554			

Summation of Run
From B.M. 21-37
To B.M. 21-38

Total Backsights = + 984.840
Total Foresights = − 973.554
Diff. Elev. = + 11.286

Backsight stadia = 276
Foresight Stadia = 274
Total Stadia = 550 meters

BM. 21-38

B.M. 21-38 (Torrance E-6A)
LYNDON ST. & STRAND
SEE F.B. 1391-40

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM 21-38 TO BM 21-37
BM-21-38									B.M. 21-38 (Torrance E-LA) LYNDON ST. & STRAND SEE F.B. 1391-40
1	185	930	486 5	194 176 18	158	280	459 5	169 147 22	
2	160	052	461 5	186 134 52 70	163	185	464 5	188 138 50 72	
3	161	789	462 5	187 135 52 122	162	074	463 5	191 133 58 130	Summation of Run From B.M. 21-38 To B.M. 21-37
4	160	531	461 5	183 137 46 168	168	384	469 5	192 144 48 178	
5	159	688	460 5	187 131 56 224	158	256	459 5	182 134 48 226	Total Backsights = + 988698
6	160	708	461 5	185 135 50 274	189	651	490 5	214 160 54 280	Total Foresights = − 999824
	988	698			999	824			Diff. Elev. = − 11.126
									Backsight stadia = 274
									Foresight Stadia = 280
									Total Stadia = 554
BM. 21-37									BM 21-37 (Torrance E-6B) THE STRAND & 5TH ST. SEE F.B. 1391-39

WEATHER CLEAR INST. NO. 96716
TIME 2:00 - 2:15 ROD NO. 9-19
NOTES CHKD [illegible] DATE 7 '65

F.B. 3740 PG. 120 JOB NO. 0301.02
SURVEY OF L. A. Co. Precise Level Net
SURVEY BY E. E. Brown NOTES MATHER
INDEXED C. J. GALLI DATE

76P526 CE # 308 3-61

PLEASE RETURN TO

L ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES HIS SHEET MUST BE MADE OR COLLED 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 BM21-38 TO BM21-39
BM21-38									BM21-38 (Torrance E-6A) Lyndon St & The Strand.
	144	952	445 5	154 / 134 20	223	091	524 5	233 / 213 20	See FB 1391-40
									π Kapp
BM21-39									BM21-39 (Torrance E-6) Hermosa Ave and Lyndon St. See F.B. 1391-40

Summation of Run
From B.M. 21-38
To B.M. 21-39

Total Backsights = + 144.952
Total Foresights = − 223.091
Diff. Elev. = − 78.139

Backsight stadia = 20
Foresight Stadia = 20
Total Stadia = 40 meters

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

SURVEY BY E. E. Brooks WEATHER Clear INST. NO. 96716

NOTES BY E. E. Brooks DATE 16 Nov 1964 TIME 11:05 ROD NO. 9-19

INDEXED C. J. GALLI DATE NOTES CHKD [illegible] DATE 7 '65

F.B. 3740 Pg. 121

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM 21-39 TO BM 21-38
BM 21-39									BM 21-39 (Torrance E-6) Hermosa Ave and Lyndon St.
1	222	978	523 5	232 212 20	144	832	445 5	154 134 20	See F.B. 1391-40
	222	978			144	832			⊼ KAPP
BM 21-38									BM 21-38 (Torrance E-6A) Lyndon St. and the Strand. See F.B. 1391-40

Summation of Run
From B.M. 21-39
To B.M. 21-38

Total Backsights = + 222 978
Total Foresights = − 144 832
Diff. Elev. = + 78.146

Backsight stadia = 20
Foresight Stadia = 20
Total Stadia = 40

F.B. 3740 PG. 122 JOB NO. 0301.02
SURVEY OF EAFO Precise Level Net
SURVEY BY E. E. Brooks NOTES MATHER
INDEXED C. J. CALL DATE
WEATHER CLEAR INST. NO. 96716
TIME 1:50 - 1:55 ROD NO. 9-19
NOTES CHKD. [illegible] DATE [illegible]

76P526 CE # 308 3-61

PLEASE RETURN TO

L ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES HIS SHEET MUST BE MADE OR COLLED 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 21-39 TO BM 21-~~70~~ 39A
BM 21-39									BM 21-39 (Torrance E-6) Hermosa Ave & Lyndon St.
1	196	136	497 5	214 178 36	149	108	450 5	167 131 36	
2	137	372	438 5	155 119 36 72	164	985	465 5	182 146 36 72	See FB 1391-40
3	154	300	455 5	156 152 4 76	164	030	465 5	166 162 4 76	π Kapp
	487	808			478	123			
BM 21-~~70~~ 39A									BM 21-~~70~~ 39A (City of Redondo Beach H-1) ~~Hermosa Ave & of~~ Harbor Blvd. & 11th St. See F.B. 3402-87

Summation of Run
From B.M. 21-39
To B.M. 21-70

Total Backsights = + 487.808
Total Foresights 478.123
Diff. Elev. = + 9.685

Backsight stadia = 76
Foresight Stadia = 76
Total Stadia = 152 meters

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

SURVEY BY L. E. Brooks

NOTES BY L. E. Brooks DATE 16 Nov. 1964

INDEXED C. J. GALLI DATE

WEATHER Clear TIME 11:10 - 11:20

NOTES CHKD. [illegible] DATE JAN 7 '65

INST. NO. 96716

ROD NO. 9-19

F.B. 3940 PG. 123

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM 21-~~70~~ 39A TO BM 21-39
BM 21-~~70~~ 39A									BM 21-~~70~~ 39A (City of Redondo Beach H-1) Harbor Blvd and 11th St.
1	162	122	463 5	164 160 4	152	602	453 5	152 150 4	see F.B. 3702-87
2	164	007	465 5	182 146 36 40	131	698	432 5	150 112 38 42	π Kapp
3	147	147	448 5	164 130 34 74	198	665	499 5	216 180 36 78	
	473	276			482	965			
BM 21-39									BM 21-39 (Torrance E-6) Hermosa Ave and Lyndon St. see F.B. 1391-40

Summation of Ru
From B.M. 21-70
To B.M. 21-39

Total Backsights = + 473.276
Total Foresights = − 482.965
Diff. Elev. = − 9.689

Backsight stadia = 74
Foresight Stadia = 78
Total Stadia = 152 meters

F.B. 3740 PG. 124 JOB NO. 0301.02

SURVEY OF LA Co. Precise Level Mtn.

SURVEY BY E. E. Brook NOTES R. Mather

INDEXED G. J. GALLI DATE

WEATHER CLEAR INST. NO. 96716

TIME 1:35 – 1:45 ROD NO. 9-19

NOTES CHKD [illegible] DATE JAN 7 '65

76P526 CE # 308 3-61

PLEASE RETURN TO

L ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM21-~~70~~ 39A WFM TO BM21-~~71~~ 39B WFM
BM21-~~70~~ 39A									BM21-~~70~~ 39A (City of Redondo Beach H-1) Harbor Blvd & 11 St.
	173	198	474 5	177 169 8	133	811	434 5	337 129 8	See FB 3702-87
BM21-~~71~~ 39B									BM 21-~~71~~ 39B WFM (S. Cal. Edison 1-1956) Harbor Blvd & 11th St. See F.B. 3702-87

Summation of Run
From B.M. 21-70
To B.M. 21-71

Total Backsights = + 173.198
Total Foresights = − 133.811
Diff. Elev. = + 39.387

Backsight stadia = 8
Foresight Stadia = 8
Total Stadia = 16 meters

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

SURVEY BY F. E. Brooks

NOTES BY F. E. Brooks DATE 16 Nov. 1964

INDEXED E. J. GALLE DATE

WEATHER Clear windy INST. NO. 96716

TIME 11:30 ROD NO. 9-19

NOTES CHKD. WFM DATE JAN 7 '65

F.B. 3740 PG. 125

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

WEATHER CLEAR INST. NO. 96716
TIME 1:30 - 3:35 ROD NO. 4-19
NOTES CHKD. DATE JAN 7 '65

STATION	BACKSIGHT Right	Mic.	Left.	Stadia	FORESIGHT Right	Mic.	Left.	Stadia	DESCRIPTION AND REMARKS
									From BM 21-74 39B wm To BM 21-70 39A wm
BM 21-74 39B									BM 21-74 (S.Cal. Edison 1-1956) Harbor Blvd and 117th St. See F.B. 3702-87
1	130	132	431	5	134 126	8	169	550	470	5	173 165	8
BM 21-70 39A									BM 21-70 39A wm (City of Redondo Beach H-1) Harbor Blvd and 117th St. See F.B. 3702-87

Summation of Diff.
From B.M. 21-71
To B.M. 21-70

Total Backsights = + 130.132
Total Foresights = − 169.550
Diff. Elev. = −39.418

Backsight stadia = 8
Foresight Stadia = 8
Total Stadia = 16 meters

F.B. 3740 PG. 142 JOB NO. 0311.02
SURVEY OF LA. Co. Precise Level. 1st
SURVEY BY E. E. Brook NOTES
INDEXED C. J. GALLI DATE

76P526 CE # 308 3-61

PLEASE RETURN TO

L ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM21-~~71~~ 39B TO BM21-40
BM21-~~71~~ 39B									BM21-~~71~~ 39B (S.Cal. Edison, 1-1956) Harbor Blvd & 11th St.
1	114	510	415 5	138 90 48	161	258	462 5	185 137 48	
2	148	812	449 5	174 122 52 100	163	155	464 5	188 138 50 98	See FB 3702-87
3	145	798	446 5	163 127 36 136	161	880	462 5	179 143 36 134	π kapp
4	134	898	435 5	164 104 60 196	181	328	482 5	212 150 62 196	
	544	018			667	621			
BM21-40									BM21-40 (Torrance E-7A) Harbor ~~Blvd~~ Dr. 228 ft ± S'ly of Marina Way See F.B. 3702-89

Backsight stadia = 196

Foresight Stadia = 196

Total Stadia = 392 meters

Total Backsights = + 544.018

Total Foresights = − 667.621

Diff. Elev. = − 123.603

Summation of Run

From B.M. 21-71

To B.M. 21-40

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

SURVEY BY E. E. Brooks

NOTES BY E. E. Brooks DATE 11 Nov 1964

INDEXED C. J. GALLI DATE

WEATHER Clear-Windy INST. NO. 96716

TIME 11:35 - 11:50 ROD NO. 9-19

NOTES CHKD [illegible] DATE JAN 7 '65

F.B. 3740 PG. 127

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM21-40 TO BM21-~~71~~ 39B
BM21-40									BM 21-40 (Torrance E-~~7A~~) Harbor ~~Blvd~~ Dr. 228ft ± Sly of Marina Way see F.B. 3702-89
1	178	220	479 5	209 147 62	131	757	432 5	161 101 60	
2	163	200	464 5	180 146 34 96	146	800	447 5	164 128 36 96	π KAPP
3	161	540	462 5	186 136 50 146	148	168	449 5	174 122 52 148	
4	162	732	463 5	185 139 46 192	115	461	416 5	138 92 46 194	
	665	692			542	186			
BM21-~~71~~ 39B									BM21-~~71~~ 39B (Cal. Edison 1-1956) Harbor Blvd and 11th St. see F.B. 3702-87

Summation of
From B.M. 21-40
To B.M. 21-71

Total Backsights = + 665.692
Total Foresights = − 542.186
Diff. Elev. = +123.506

Backsight stadia = 192
Foresight Stadia = 194
Total Stadia = 386 meters

WEATHER CLEAR INST. NO. 96716
TIME 1:15 – 1:30 ROD NO. 9-19
NOTES CHKD [illegible] DATE JAN 7 '65

F.B. 3746 PG. 178 JOB NO. 0301.02
SURVEY OF LA Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES MATHER
INDEXED G. J. GALLI 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. E. Brooks WEATHER Clear INST. NO. 96716

NOTES BY F. E. Brooks DATE 16 Nov 1964 TIME 1:00 - 1:25 ROD NO. 9-19

INDEXED C. J. GALLI DATE NOTES CHKD [illegible] DATE JAN 7 '65

F.B. 3740 Pg. 129

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA		DESCRIPTION AND REMARKS FROM BM 21-40 TO BM 21-~~72~~ 40A wh
BM 21-40													BM 21-40 (Torrance E-7A) Harbor Dr. 228 ft ± S'ly of Marina way See F.B. 3702-89
1	223	863	524	5	250 / 196	54	133	180	434	5	160 / 106	54	
2	187	250	488	5	211 / 163	48 / 102	134	085	435	5	158 / 110	48 / 102	π Kapp
3	180	791	481	5	204 / 156	48 / 150	130	900	431	5	155 / 105	50 / 152	
4	171	768	472	5	188 / 154	34 / 184	132	320	433	5	148 / 116	32 / 184	
5	150	421	451	5	152 / 148	4 / 188	165	020	466	5	167 / 163	4 / 188	✓
	914	093	✓				695	505	✓				
BM 21-~~72~~ 40A wh													BM 21-~~72~~ 40A wh (city of Redondo Beach H-4) Harbor Dr. and Beryl St. see F.B. 3702-91

Summation of Run
From B.M. 21-40
To B.M. 21-72

Total Backsights = + 914.093 ✓
Total Foresights = − 695.505 ✓
Diff. Elev. = + 218.588 ✓

Backsight stadia = 188 ✓
Foresight Stadia = 188 ✓
Total Stadia = 376 ✓ meters

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 21-~~72~~ 40A TO BM 21-40
B.M. 21-~~72~~ 40A													BM 21-~~72~~ 40A (City of Redondo Beach H-4) HARBOR BLVD & BERYL ST. SEE F.B 3702-91
1	165	342	466	5	167 / 163	4	150	366	451	5	152 / 148	4	
2	131	295	432	5	148 / 114	34 / 38	171	284	472	5	187 / 155	32 / 36	⊼ KAPP
3	132	818	433	5	157 / 107	50 / 88	182	524	483	5	207 / 157	50 / 86	
4.	133	520	434	5	157 / 109	48 / 136	186	758	487	5	210 / 162	48 / 134	
5.	133	068	434	5	160 / 106	54 / 190	223	833	524	5	250 / 196	54 / 188	
	696	043					914	765					
BM. 21-40													BM 21-40 (Torrance E-7A) HARBOR DR 228 FT. S'LY OF MARINA WAY SEE F.B. 3702-89

Summation of Run
From B.M. 21-72
To B.M. 21-40

Total Backsights = + 696 043
Total Foresights = − 914 765
Diff. Elev. = − 218 722

Backsight stadia = 190
Foresight Stadia = 188
Total Stadia = 378

F.B. 3740 PG. 130 JOB NO. 030102
SURVEY OF LA Co. PRECISE LEVEL NET
SURVEY BY E.E. BROOKS NOTES MATHER
INDEXED C. J. GALLI DATE

WEATHER CLEAR INST. NO. 96716
TIME 11:30 – 12:00 ROD NO. 9-19
NOTES CHKD. [illegible] DATE JAN 7 '65

76P526 CE # 308 3-61

PLEASE RETURN TO

L ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM BM 21-~~72~~ 40A whm TO BM21-41
BM21-~~72~~ 40A									BM 21-~~72~~ 40A (City of Redondo Beach #-4) Harbor Dr. and Beryl St. See F.B. 3702-91
1	167	510	468 5	169 165 4	152	786	457 5	154 150 4	
2	168 ~~149~~	738 ~~168~~	469 5 ~~450 5~~	187 ~~16~~ 149 38 42	149	168	450 5	169 129 40 44	π Kopp
3	165	821	466 5	174 156 18 60	213	939	514 5	222 204 18 62	
	502	069			515	893			
BM21-41									BM 21-41 (Torrance E-7) Harbor Dr. 0.10 mi S. of Beryl St. See F.B. 1391-42

Summation of Run
From B.M. 21-72
To B.M. 21-41

Total Backsights = + 502.069
Total Foresights = − 515.893
Diff. Elev. = − 13.824

Backsight stadia = 60
Foresight Stadia = 62
Total Stadia = 122 meters

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

SURVEY BY E. E. Brooks

NOTES BY F. E. Brooks DATE 16 Nov. 1964

INDEXED C. J. GALLI DATE

WEATHER Overcast TIME 1:25 - 1:30

NOTES CHKD. [illegible] DATE

INST. NO. 9L716 ROD NO. 9-19

F.B. 3740 Pg. 131

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM 21-41 TO BM21-~~72~~ 40A
BM21-41									BM 21-41 (Torrance E-7) Harbor Dr. 0.10mi S. of Beryl St. See F.B. 1391-42
1	219	711	520 5	228 210 18	170	428	471 5	178 162 16	
2	148	755	449 5	167 129 38 56	169	436	470 5	189 149 40 56	⊼ Kapp
3	156	707	457 5	158 154 4 60	171	558	558 5	173 169 4 60	
	525	173			511	422			
BM21-~~72~~ 40A									BM 21-~~72~~ 40A (City of Redondo Beach H-4) Harbor Dr. and Beryl St. See F.B. 3702-91

Summation of Run
From B.M. 21-41
To B.M. 21-72

Total Backsights = + 525.173
Total Foresights = − 511.422
Diff. Elev. = + 13.751

Backsight stadia = 60
Foresight Stadia = 60
Total Stadia = 120 meters

WEATHER Clear INST. NO. 96716
TIME 11:05 - 11:15 ROD NO. 0-19
NOTES CHKD [illegible] DATE JAN 7 '65

F.B. 3740 PG. 132 JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY F. E. Brooks NOTES F. E. Brooks
INDEXED G. J. GALLI 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 E. E. Brooks

NOTES BY E. E. Brooks DATE 16 Nov 1964 WEATHER Overcast, windy INST. NO. 42 716

INDEXED G. J. GALLI DATE NOTES CHKD DATE ROD NO. 9-18

F.B. 7740 Pg. 133

STATION	BACKSIGHT Right	BACKSIGHT Mic.	BACKSIGHT Left		BACKSIGHT Stadia		FORESIGHT Right	FORESIGHT Mic.	FORESIGHT Left		FORESIGHT Stadia		DESCRIPTION AND REMARKS
													From BM 21-41 to BM 21-42
BM 21-41													BM 21-41 (Torrance F-7) Harbor Dr. 0.10 mi S. of Beryl St.
1	235	488	536	5	256 / 212	46	146	399	447	5	167 / 125	42	
2	172	618	473	5	191 / 153	38 / 84	128	020	429	5	148 / 108	40 / 82	See FB 1391-42
3	159	920	460	5	170 / 148	22 / 106	223	590	524	5	234 / 212	22 / 104	T Kapp
	568	026					498	009					
BM 21-42													BM 21-42 (Torrance F-7) Harbor Dr. and Pacific Ave see F.B. 1391-43

Summation of Rem
From B.M. 21-41
To B.M. 21-42

Total Backsights = + 568.026
Total Foresights = − 498.009
Diff. Elev. = 470.017

Backsight stadia = 106'
Foresight Stadia = 104'
Total Stadia = 210 meters

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 21-42 TO BM 21-41
BM 21-42													BM 21-42 (Torrance F-7) Harbor Dr. and Pacific Ave See F.B. 1391-43
1	209	442	510	5	219 / 199	20	143	634	444	5	153 / 133	20	
2	128	973	429	5	147 / 109	38 / 58	175	480	476	5	195 / 155	40 / 60	T KAPP
3	149	804	450	5	170 / 128	42 / 100	239	082	540	5	262 / 216	46 / 106	
	488	219					558	196					
BM 21-42													BM 21-41 (Torrance E-7) Harbor Dr. 0.10 mi. S. of Beryl St. See F.B. 1391-42

Summation of Run
From B.M. 21-42
To B.M. 21-41

Total Backsights = + 488.219
Total Foresights = − 558.196
Diff. Elev. = − 69.977

Backsight stadia = 100
Foresight Stadia = 106
Total Stadia = 206 meters

WEATHER CLEAR INST. NO. 96716
TIME 10:55 ROD NO. 9-19
NOTES CHKD [illegible] DATE JAN 7 '65

F.B. 3740 PG. 134 JOB NO. 0301.02
SURVEY OF E.A. Co. Precise Level Net
SURVEY BY F. E. Brooks NOTES MATHER
INDEXED C. J. GALLI DATE

76P526 CE # 308 3-61

PLEASE RETURN TO

L ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES HIS SHEET MUST BE MADE OR CALLED 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 BM21-42 TO BM21-~~73~~ 42A ux
BM21-42									BM21-42 (Torrance F-7) Harbor Dr. and Pacific Ave see F.B. 1391-43
1	256	425	557 5	278 234 44	177	510	478 5	199 155 44	
2	158	428	459 5	160 156 4 48	168	138	469 5	169 167 2 46	T Kapp
	414	853			345	648			
BM21-~~73~~ 42A ux									BM21-~~73~~ 42A ux (City of Redondo Beach #-6) Pacific Ave and Diamond St. see F.B. 3702-97

Summation of Run
From B.M. 21-73
To B.M. 21-42

Total Backsights = + 414.853
Total Foresights = − 345.648
Diff. Elev. = + 69.205

Backsight stadia = 48
Foresight Stadia = 46
Total Stadia = 94 meters

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

SURVEY BY E. E. Brooks WEATHER Overcast INST. NO. 96910

NOTES BY E. E. Brooks DATE 16 Nov. 1964 TIME 1:30-1:55 ROD NO. 9-19

INDEXED C. J. GALLI DATE NOTES CHKD. [illegible] DATE JAN 7 '65

F.B. 3740 PG. 135

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM21-~~73~~ 42A wk TO BM21-42
BM21-~~73~~ 42A									BM21-~~73~~ 42A (City of Redondo) (Beach #-6) Pacific Ave and Diamond St. See F.B. 3702-97
1	168	582	469.5	169 / 167 2	159	780	460.5	161 / 157 4	
2	193	030	494.5	216 / 170 46 / 48	270	955	571.5	292 / 248 44 / 48	T Kapp
	361	612			430	735			
BM21-42									BM21-42 (Torrance F-7) Harbor Dr. and Pacific Ave See F.B. 1391-43

Summation of Run
From B.M. 21-73
To B.M. 21-42

Total Backsights = + 361.612
Total Foresights = − 430.735
Diff. Elev. = −69.123

Backsight stadia = 48
Foresight Stadia = 48
Total Stadia = 96 meters

F.B. 3740 PG. 136 JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES E. E. Brooks
INDEXED C. J. GALLI DATE

WEATHER Clear INST. NO. 96716
TIME 10:40 - 10:45 ROD NO. 9-19
NOTES CHKD [illegible] DATE JAN 7 '63

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. E. Brooks WEATHER Overcast INST. NO. 96916

NOTES BY F. E. Brooks DATE 16 Nov. 1964 TIME 2:00 - 2:15 ROD NO. 8-18

INDEXED C. J. GALLI DATE NOTES CHKD [illegible] DATE 7 '65

F.B. 3740 Pg. 137

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA		DESCRIPTION AND REMARKS FROM BM 21-~~73~~ 42A TO BM 21-43A
BM 21-~~73~~ 42A													BM 21-~~73~~ 42A (City of Redondo Beach H-6) Pacific Ave and Diamond St.
1	159	181	460	5	162 / 156	6	142	569	443	5	146 / 138	8	see F.B. 3702-97
2	135	895	436	5	157 / 113	44 / 50	129	248	430	5	151 / 107	44 / 52	π Kapp
3	181	820	482	5	204 / 158	46 / 96	91	743	392	5	115 / 67	48 / 100	
4	165	840	466	5	166 / 164	2 / 98	159	948	460	5	160 / 158	2 / 102	
	642	736					523	508					
BM 21-43A													BM 21-43A (City of Redondo Beach H-7) Pacific Ave and Emerald St. see F.B. 3702-99

Summation of Run
From B.M. 21-73
To B.M. 21-43A

Total Backsights = + 642.736
Total Foresights = − 523.508
Diff. Elev. = +119.228

Backsight stadia = 98
Foresight Stadia = 102
Total Stadia = 200 meters

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
BM 21-43A													FROM BM 21-43A TO BM 21-~~73~~ 42A
1	158	391	459	5	159 157	2	164	322	465	5	165 169	2	BM 21-43A (~~City of Redondo~~ Beach H-7) Pacific Ave and Emerald Ave See F.B. 3702-99
2	89	053	390	5	113 65	48 50	179	587	480	5	202 156	46 48	
3	130	832	431	5	152 108	44 94	136	904	437	5	158 114	44 92	T Kapp
4	146	111	447	5	150 142	8 102	162	932	463	5	165 159	6 98	
	524	387 ✓					643	745 ✓					
BM 21-~~73~~ 42A													BM 21-~~73~~ 42A (City of Redondo Beach H-6) Pacific Ave and Diamond St. See F.B. 3702-97

Summation of Run
From B.M. 21-43A
To B.M. 21-73

Total Backsights = + 524.387 ✓
Total Foresights = − 643.745 ✓
Diff. Elev. = −119.358 ✓

Backsight stadia = 102 ✓
Foresight Stadia = 98 ✓
Total Stadia = 200 ✓ meters

F.B. 3740 Pg. 138 JOB NO. 0301.02
SURVEY OF E.A. Corrective Level Net
SURVEY BY E. E. Brooks NOTES E. E. Brooks
INDEXED C. J. GALLI DATE

WEATHER clear INST. NO. 9716
TIME 10:25-10:35 ROD NO. 9-19
NOTES CHKD [illegible] DATE JAN 7 '65

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 BM21-43A TO BM21-45
BM 21-43A													BM 21-43A (City of Redondo Beach H-7) Pacific Ave & Emerald St.
1	177	869	478	5	179 175	4	145	966	446	5	147 143	4	
2	243	099	544	5	249 237	12 16	25	458	326	5	30 20	10 14	See FB 3702-99
3	251	370	552	5	255 247	8 24	69	492	370	5	73 65	8 22	π Kapp
4	254	738	555	5	258 250	8 32	63	937	364	5	67 59	8 30	
	927	076					304	853					
BM. 21-45													B.M. 21-45 (USGS RS28A) EMERALD ST. & COMMERCIAL ST. SEE F.B. 3702-101

Summation of Run
From B.M. 21-43A
To B.M. 21-45

Total Backsights = + 927.076
Total Foresights = − 304.853
Diff. Elev. = +622.223

Backsight stadia = 32
Foresight Stadia = 30
Total Stadia = 62 meters

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

SURVEY BY A. E. Brooks

NOTES BY R. Mather DATE 11-16-64 TIME 2:20-2:30 ROD NO. 9-19

INDEXED C. J. Gallo DATE NOTES CHKD [illegible] DATE [illegible] '65

WEATHER OVERCAST INST. NO. 96716

F.B. 3740 Pg. 139

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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 21-45 TO BM21-43A
BM21-45													BM21-45 (USGS RS28A) Emerald St. and Commercial St. See F.B. 3702-101
1	65	152	366	5	69 / 61	8	247	910	548	5	251 / 243	8	
2	60	595	361	5	64 / 56	8 / 16	248	110	549	5	252 / 244	8 / 16	⊼ Kapp
3	18	930	319	5	24 / 12	12 / 28	245	600	546	5	251 / 239	12 / 28	
4	154	766	455	5	156 / 152	4 / 32	1180	139	481	5	182 / 178	4 / 32	✓
	299	443	✓				921	759	✓				
BM21-43A													BM21-43A (City of Redondo Beach H-7) Pacific Ave and Emerald St. See F.B. 3702-99

Summation of Item
From B.M. 21-45
To B.M. 21-43A

Total Backsights = + 299.443 ✓
Total Foresights = − 921.759 ✓
Diff. Elev. = − 622.316 ✓

Backsight Stadia = 32 ✓
Foresight Stadia = 32 ✓
Total Stadia = 64 meters

F.B. 3740 Pg. 140
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY A. E. Brooks NOTES F.E.B.
INDEXED C. J. GALLI DATE
JOB NO. 0301.02
WEATHER Clear INST. NO. 96716
TIME 10:10 - 10:20 ROD NO. 9-19
NOTES CHKD. [illegible] DATE JAN 7 '65

76P526B CE # 308 6-59

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 BM21-45 TO BM21-46
BM21-45													BM21-45 (USGS RS28A) Emerald St. & Commercial St.
1	64	428	365	5	68 60	8	255	942	556	5	259 251	8	
2	68	811	369	5	72 64	8 16	248	058	549	5	252 244	8 16	See F.B. 3702-101
3	18	142	319	5	24 12	12 28	237	270	538	5	242 232	10 26	⊼ Kapp
4	107	251	408	5	117 98	20 48	108	059	409	5	118 98	20 46	Summation of Run From B.M. 21-45 To B.M. 21-46
5	239	222 ~~199~~	540	5	253 225	28 76	110	163	411	5	124 96	28 74	
6	264	562	565	5	275 253	22 98	48	487	349	5	58 38	20 ~~74~~ 94	Total Backsights = + 1310.152
7	265	588	566	5	276 254	22 120	73	161	374	5	86 60	26 120	Total Foresights = − 1207.172
8	282	148	583	5	300 264	36 156	126	032	427	5	143 109	34 154	Diff. Elev. = + 102.980
	1310	152					1207	172					Backsight stadia = 156
													Foresight Stadia = 154
													Total Stadia = 310 meters
BM21-46													BM 21-46 (USGS GGS U-50) Pacific Ave and Coral Way See F.B. 1791-46

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

SURVEY BY L.E. Brooks WEATHER Overcast INST. NO. 96716

NOTES BY L.E. Brooks DATE 16 Nov. 1964 TIME 2:40 - 2:55 ROD NO. 9-19

INDEXED G. J. GALLE DATE NOTES CHKD [illegible] DATE JAN 7 '65

F.B. 3740 PG. 744

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.

INST. NO. 96716 ROD NO. 9-19 DATE JAN 7 '65

WEATHER CLEAR TIME 9:45 - 10:10 NOTES CHKD

JOB NO. 0311.02 NOTES MOTHER DATE

F.B. 3740 PG. 142

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY E. F. Brooks

INDEXED C. J. Gall

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA		DESCRIPTION AND REMARKS
													FROM BM21-46 TO BM21-45
BM21-46													BM 21-46 (USC&GS U-50) Pacific Ave and Coral Way See F.B. 1391-46
1	127	300	428	5	144 110	34	280	132	581	5	298 262	36	
2	73	839	374	5	86 60	26 60	269	369	570	5	281 257	24 60	T KAPP
3	95	755	396	5	101 89	12 72	208	783	509	5	214 202	12 72	
4	36	647	337	5	48 24	24 96	184	183	485	5	197 171	26 88	Summation of R. From B.M. 21-46 To B.M. 21-45
5	79	990	380	5	93 65	28 124	202	953	503	5	215 189	26 124	
6	226	230	527	5	234 218	16 140	4	268	305	5	11 4	7 138	Total Backsights = + 1259702
7	272	030	573	5	276 268	8 148	47	898	348	5	52 42	10 148	Total Foresights = − 1262538
8	247	911	548	5	251 243	8 156	65	152	366	5	69 61	8 156	Diff. Elev. = − 102 836
	1259	702					1262	538					Backsight stadia = 156
													Foresight Stadia = 156
													Total Stadia = 312
BM 21-45													BM 21-45 (USGS R528A) Emerald St. and Commercial St. See F.B. 3702-101

76P526 CE # 308 3-61

PLEASE RETURN TO

L ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM 21-46 TO BM 21-47
BM 21-46									BM 21-46 (USC&GS V-50) Pacific Ave and Coral Way See F.B. 1391-46
1	101	669	402 5	104 98 6	282	320	583 5	285 279 6	
2	28	270	329 5	34 22 12 18	251	099	552 5	256 246 10 16	T Kopp
3	45	960	346 5	52 38 14 32	287	177	588 5	294 280 14 30	
4	17	453	318 5	24 10 14 46	253	027	554 5	260 247 13 43	
5	150	738	451 5	154 146 8 54	214	625	515 5	219 209 10 53	
	344	090			1288	248			
BM 21-47									BM 21-47 Harbor Dr. and Coral Way See F.B. 1391-47

Summation of Run
From B.M. 21-46
To B.M. 21-47

Total Backsights = + 344.090
Total Foresights = − 1288.248
Diff. Elev. = −944.158

Backsight stadia = 54
Foresight Stadia = 53
Total Stadia = 107 meters

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

SURVEY BY E. E. Brooks

NOTES BY E. E. Brooks DATE 16 Nov 1964

INDEXED C. J. GALLI DATE

WEATHER Overcast windy INST. NO 96716

TIME 3:00 - 3:15 ROD NO 9-19

NOTES CHKD. [illegible] DATE 7 '65

F.B. 3740 PG. 143

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM 21-47 TO BM 21-46
BM 21-47									BM21-47 Harbor Dr. and Coral Way see F.B. 1391-47
1	217	460	518 5	222 212 10	153	212	454 5	157 149 8	
2	238	606	539 5	244 232 12 22	7	982	308 5	14 7 7x2 14 22	⊼ Kapp
3	275	568	576 5	282 268 14 36	30	992	331 5	37 23 14 36	
4	239	221	540 5	244 234 10 46	15	143	316 5	22 8 14 50	
5	283	070	584 5	286 280 6 52	102	361	403 5	106 98 8 58	
	1253	925			309	690			
BM21-46									BM 21-46 (USC&GS U-50) Pacific Ave and Coral Way see F.B. 1391-46

Summation of Run
From B.M. 21-47
To B.M. 21-46

Total Backsights = + 1253.925
Total Foresights = − 309.690
Diff. Elev. = + 944.235

Backsight stadia = 52
Foresight Stadia = 58
Total Stadia = 110 meters

F.B. 3740 PG. 142 JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY F. E. Brooks NOTES F. E. Brooks
INDEXED G. J. GALL DATE
WEATHER Clear INST. NO. 46716
TIME 9:15 - 9:40 ROD NO. 9-19
NOTES CHKD [illegible] DATE 7 '65

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
BM 21-47									FROM BM21-47 TO BM21-49
									BM 21-47
									~~Ft~~ Harbor Dr. and Coral Way
1	188	513	489 5	191 / 185 6	138	307	439 5	141 / 135 6	see F.B. 1391-47
2	196	088	497 5	217 / 175 42 / 48	160	045	461 5	181 / 139 42 / 48	T Mr. Bustrum
3	102	833	403 5	126 / 78 48 / 96	196	652	497 5	221 / 172 49 / 97	Summation of Run From B.M. 21-47 To B.M. 21-49
4	128	431	429 5	153 / 103 50 / 146	175	652	476 5	201 / 149 52 / 149	
5	140	333	441 5	166 / 114 52 / 198	129	597	430 5	154 / 104 50 / 199	Total Backsights = + 1270.322
									Total Foresights = − 1252.053
6	175	615	476 5	204 / 146 58 / 256	126	605	427 5	156 / 96 60 / 259	Diff. Elev. = + 18.269
7	170	467	471 5	196 / 144 52 / 308	140	162	441 5	164 / 115 49 / 308	
8	168	042	469 5	177 / 158 19 / 327	185	033	486 5	194 / 176 18 / 326	Backsight stadia = 327
	1270	322			1252	053			Foresight Stadia = 326
									Total Stadia = 653 Meters
BM 21-49									BM 21-49 (Torrance F-9A) Service Rd. in Redondo Beach Park See F.B. 1391-49

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

SURVEY BY E. L. BROOKS

NOTES BY K. M. Kapp DATE 11-20-64

INDEXED C. J. GALLI DATE

WEATHER Clear INST. NO. 96716

TIME 10:05-10:40 ROD NO. 9-19

NOTES CHKD. [illegible] DATE JAN 8 '65

F.B. 3740 Pg. 145

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.

INST. NO. 96716
ROD NO. 8-19
DATE JAN 8 '65
WEATHER Clear
TIME 2:55 - 3:
NOTES CHKD

F.B. 3740 PG. 146
JOB NO. 2301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY E. E. Brooks
NOTES F.E.B.
INDEXED C. J. GALLE DATE

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA		DESCRIPTION AND REMARKS
													FROM BM 21-49 TO BM 21-47
BM 21-49													BM 21-49 (Torrance F-9A) Service Rd. in Redondo Beach Park See F.B. 1391-49
1	181	224	482	5	190 / 172	18	162	825	463	5	172 / 153	19	
2	135	475	436	5	160 / 110	50 / 68	165	572	466	5	190 / 140	50 / 69	T Moore
3	121	676	422	5	181 / 91	60 / 128	171	945	472	5	200 / 142	58 / 127	
4	127	255	428	5	153 / 101	52 / 180	128	369	429	5	153 / 103	50 / 147	Summation of Run From B.M. 21-49 To B.M. 21-47
5	160	590	461	5	186 / 134	52 / 272	123	601	424	5	148 / 98	50 / 227	
6	194	912	495	5	218 / 170	48 / 280	99	212	400	5	123 / 75	48 / 275	Total Backsights = + 1256.409 Total Foresights = − 1274.649 Diff. Elev. = −18.240
7	157	605	458	5	177 / 137	40 / 320	~~219~~ 204	~~705~~ 729	~~518~~ 505	~~5~~ 5	~~243~~ 191 / 181	~~52~~ 46	
8	177	692	478	5	181 / 173	8 / 328	218	396	519	5	222 / 214	8 / 329	Backsight stadia = 328 Foresight Stadia = 329 Total Stadia = 657 meters
	1256	409					1274	649					
BM 21-47													BM 21-47 Harbor Dr. & Coral Way See F.B. 1391-47

76P526B CE # 308 8-59

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LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

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

SURVEY BY F. E. Brooks

NOTES BY E. E. Brooks DATE 20 Nov 1964

INDEXED C. J. GALLI DATE

WEATHER Clear

TIME 10:45 - 11:30

NOTES CHKD [illegible] DATE JAN 8 65

INST. NO. 96716

ROD NO. 9-19

F.B. 3740 Pg. 149

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA	
BM21-49												
1	194	803	495	5	200 188	12	25	759	326	5	31 19	12
2	262	089	563	5	264 259	5 17	56	517	357	5	59 54	5 17
3	223	387	524	5	237 210	27 49	41	821	342	5	56 27	29 46
4	254	331	555	5	267 241	26 70	54	868	355	5	67 42	25 71
5	298	115	599	5	298 287	11x2 22 92	9	929	310	5	20 9	11x2 22 93
6	291	408	592	5	296 286	10 102	51	277	352	5	56 46	10 103
7	293	242	594	5	300 286	14 116	21	389	322	5	31 11	20 123
8	203	139	504	5	229 177	52 168	92	163	393	5	119 65	54 177
9	205	765	506	5	233 178	55 223	153	697	454	5	177 129	48 225
10	122	381	423	5	149 95	54 279	172	258	473	5	199 145	54 279
11	121	531	422	5	152 90	62 339	184	635	488	5	218 156	62 341
12	154	853	455	5	157 151	6 345	161	745	462	5	164 158	6 347
BM 21-50	2625	094					1129	058				

DESCRIPTION AND REMARKS

FROM BM21-49 TO BM21-50

BM21-49 (Torr. Ance F-9A) Service Rd. in Redondo Beach Park

See F.B. 1391-49

T Bustrum

Summation of Run
From B.M. 21-49
To B.M. 21-50

Total Backsights = + 2625.094
Total Foresights = − 1029.058
Diff. Elev. = +1596.036

Backsight stadia = 345
Foresight Stadia = 347
Total Stadia = 692 meters

BM21-50 (Redondo) Esplanade and Ave A
See F.B. 1391-50

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

WEATHER Overcast INST. NO. 96416
TIME 1:50-2:25 ROD NO. 9-19
NOTES CHKD [illegible] DATE JAN 8 '63

F.B. 3040 PG. 148 JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY E. Brooks NOTES K. M. Kapp
INDEXED C. J. GALLE DATE

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA		DESCRIPTION AND REMARKS
													FROM BM 21-50 TO BM 21-49
BM 21-50													BM 21-50 (Redondo)
1	164	156	465	5	167 161	6	157	395	458	5	160 154	6	Esplanade and Ave A.
+	~~164~~	~~173~~	~~465~~	~~5~~	~~167~~ ~~161~~	~~6~~	~~158~~	~~158~~	~~459~~	~~5~~	~~160~~ ~~155~~	~~6~~	See F.B. 1391-50
2	193	654	494	5	224 162	62 68	126	359	427	5	157 95	62 68	T Moore (D. P. W. T.)
3	175	457	476	5	202 148	54 122	126	728	427	5	153 99	54 122	
4	155	794	456	5	181 129	52 174	208	052	509	5	234 182	52 174	Summation of Run From B.M. 21-50 To B.M. 21-49
5	97	199	398	5	124 70	54 228	207	285	508	5	233 181	52 226	
6	23	461	324	5	33 13	20 248	294	677	595	5	301 287	14 240	
7	58	787	359	5	63 53	10 258	299	922	600	5	299 1/2 294	5 10 250	Total Backsights = + 1100.277 ✓ Total Foresights = − 2696.209 ✓
8	12	839	313	5	23 1/2 12	11 22 280	301	735	602	5	301 1/2 290	11 22 272	Diff. Elev. − 1595.932 ✓
9	64	267	365	5	76 53	23 303	265	988	564	5	278 250	28 300	
10	53	095	354	5	66 40	26 329	232	710	533	5	246 218	28 328	Backsight Stadia = 347 ✓ Foresight Stadia = 346 ✓
11	78	670	379	5	81 75	6 335	284	769	585	5	287 281	6 334	Total Stadia = 693 ✓ meters
12	22	898	323	5	28 16	12 347	191	589	492	5	197 185	12 346	
BM 21-49	1100	277	✓				2696	209	✓				BM 21-49 (Torrance F.P.A.) Service Rd. in Redondo Beach Park See F.B. 1391-49

76P526B CE # 308 8-59

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Do not extend notes this side of this line.

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

SURVEY BY E. E. Brooks WEATHER Clear INST. NO. 26716

NOTES BY K. M. Kapp DATE 11-20-64 TIME 11:45 ROD NO. 9-19

INDEXED G. J. Gall DATE NOTES CHKD [illegible] DATE JAN 8 65

F.B. 3740 Pg. 149

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM21-50 TO BM21-50A
BM21-50													BM21-50 (Redondo) Esplanade & Ave A
1	152	999	453	5	166 138	28	174	708	475	5	188 160	28	See F B 1391-50
													π Bustrum
BM 21-50A													BM 21-50A (Redondo R.M) Esplanade & Ave. A See F.B. 1391-50

Summation of Run
From B.M. 21-50
To B.M. 21-50A

Total Backsights = 152.999
Total Foresights = 174.708
Diff. Elev. = -21.709

Backsight stadia = 28
Foresight Stadia = 28
Total Stadia = 56 meters

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM21-50A TO BM21-50
BM21-50A	188	768	489	5	202 / 174	28	166	982	467	5	181 / 151	30	BM 21-50A (Redondo R.M.) Esplanade and Ave A. See F.B. 1391-50 ⊼ Moore
BM21-50													BM 21-50 (Redondo) Esplanade and Ave A See F.B. 1391-50

Summation of Run
From B.M. 21-50A
To B.M. 21-50

Total Backsights = + 188.768
Total Foresights = − 166.982
Diff. Elev. = + 21.786

Backsight stadia = 28
Foresight Stadia = 30
Total Stadia = 58 meters

F.B. 7740 Pg. 150 JOB NO. 0301.02
SURVEY OF LA Co. Precise Level Net
SURVEY BY F. E. Brooks NOTES FEB
INDEXED C. J. GALLI DATE

WEATHER Broken Cloudy INST. NO. 96716
TIME 1:40 ROD NO. 9-19
NOTES CHKD [illegible] DATE JAN 8 '65

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

SURVEY BY E.E. Brooks WEATHER Clear INST. NO. 26216

NOTES BY K.M. Kapp DATE 11-20-62 TIME 1100-1140 ROD NO. 2-12

INDEXED G. J. GALLI DATE NOTES CHKD. DATE JAN 8 '63

F.B. 3740 Pg. 151

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA	
BM21-50A												
1	100	173 ~~167~~	401	5	125 75	50	219	187	520	5	243 194	49
2	82	779	383	5	111 53	58 108	218	447	519	5	247 189	58 107
3	78	509	379	5	105 51	54 162	203	883	504	5	229 177	52 159
4	80	545	381	5	109 51	58 220	218	618	519	5	247 189	58 217
5	92	071	393	5	120 64	56 276	185	258	486	5	215 155	60 277
6	138	495	439	5	166 110	56 332	164	625	465	5	192 136	56 393
7	147	245	448	5	174 120	54 386	166	945	467	5	192 144	52 445
8	186	539	487	5	218 153	65 451	154	767	455	5	189 119	70 455
	906	356					1531	730				
BM21-51A												

From BM21-50A To BM21-51A

BM21-50A (Redondo R.M.)
Esplanade & Ave A

See FB 1391-50

T Bustrum

Summation of Run
From B.M. 21-50A
To B.M. 21-51A

Total Backsights = + 906.356
Total Foresights = − 1531.730
Diff. Elev. = − 625.374

Backsight stadia = 451
Foresight Stadia = 455
Total Stadia = 906 meters

BM 21-51A ([redacted])
Esplanade & Ave. I
See F.B. 3702-113

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM 21-51A TO BM 21-50A
BM 21-51A													BM 21-51A ([redacted]) Esplanade & Ave. I See F.B. 3702-113
1	159	108	460	5	192 / 126	66	192	541	493	5	226 / 158	68	
2	169	561	470	5	195 / 143	52 / 118	148	182	449	5	175 / 121	54 / 122	π Moore
3	169	435	470	5	197 / 141	56 / 174	143	151	444	5	171 / 115	56 / 178	Summation of Run From B.M. 21-51A To B.M. 21-50A
4	191	490	492	5	231 / 161	60 / 234	97	569	398	5	124 / 70	54 / 232	
5	218	940	519	5	246 / 190	56 / 290	81 [redacted]	185	382 [redacted]	5	101 / 57	60 / 292	Total Backsights = + 1564.920
6	208	302	509	5	234 / 182	52 / 342	83	579	384	5	110 / 56	54 / 346	Total Foresights = − 939.209
7	226	459	527	5	256 / 196	60 / 402	86	815	387	5	114 / 58	56 / 402	Diff. Elev. = +625.711
8	221	645	522	5	245 / 197	48 / 450	106	187	407	5	131 / 81	50 / 452	Backsight stadia = 450
	1564	920					939	209					Foresight Stadia = 452
													Total Stadia = 902 meters
BM 21-50A													BM 21-50A (Redondo R.M.) Esplanade & Ave. A See F.B. 1391-50

WEATHER Broken Clouds INST. NO. 96716
TIME 12:55 - 1:35 ROD NO. 9-19
NOTES CHKD [signature] DATE JAN 8 '63

F.B. 3740 PG. 152 JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES F.E.B.
INDEXED C. J. GALLI DATE

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM21-51A TO BM21-51
BM21-51A													BM21-51A Esplanade & Ave I
	159	773	460	5	169 149	20	190	297	491	5	200 180	20	See FB 3702-113 π Bustrum
BM21-51													BM 21-51 (Torrance F-10) Esplanade and Ave I See F.B. 3702-113

Summation of Run
From B.M. 21-51A
To B.M. 21-51

Total Backsights = + 159.773
Total Foresights = − 190.297
Diff. Elev. = − ~~4~~0.524
3

Backsight stadia = 20
Foresight Stadia = 20
Total Stadia = 40 meters

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

SURVEY BY E. E. Brooks WEATHER Near INST. NO. 56716

NOTES BY E. E. Brooks DATE 20 Nov 1964 TIME 1:40 ROD NO. 9-19

INDEXED C. J. GALLI DATE NOTES CHKD [illegible] DATE JAN 8 65

F.B. 3740 Pg. 153

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM 21-51 TO BM 21-51A
BM 21-51													BM 21-51 (Torrance F-10) Esplanade and Ave I. See F. B. 3702-113
1	203	502	504	5	213 / 193	20	172	972	473	5	183 / 161	22	T Moore
BM 21-51A													BM 21-51A Esplanade and Ave I See F.B. 3702-113

Summation of Run
From B.M. 21-51
To B.M. 21-51A

Total Backsights = + 203.502
Total Foresights = − 172.972
Diff. Elev. = + 30.530

Backsight stadia = 20
Foresight Stadia = 22
Total Stadia = 42 Meters

WEATHER Clear INST. NO. 9716
TIME 11:50 ROD NO. 9-19
NOTES CHKD [signature] DATE JAN 8 '65

F.B. 3740 PG. 154 JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES K.M. Kapp
INDEXED C. J. GALLI DATE

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

F.B. 3740 Pg. 155

SURVEY BY E. E. Brooks WEATHER Clear INST. NO. 96716

NOTES BY E. E. Brooks DATE 20 Nov 1964 TIME 1:45 ROD NO. 9-19

INDEXED C. J. GALLI DATE NOTES CHKD [illegible] DATE JAN 8 '65

76P526B CE # 306 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT	FORESIGHT STADIA	DESCRIPTION AND REMARKS FROM BM21-51 TO BM21-51B
BM21-51									BM21-51 (Torrance F-10) Esplanade & Ave I
	192	457	493 5	205 180 25	128	113	429 5	141 115 26	See FB 3702-113
									⊼ Bustum
BM21-51B									BM21-51B (USC&GS D-768) Esplanade and Ave I See F.B. 3702-113

Summation of Run
From B.M. 21-51
To B.M. 21-51B

Total Backsights = + 192.457'
Total Foresights = − 128.113'
Diff. Elev. = + 64.344'

Backsight stadia − 25'
Foresight Stadia = 26'
Total Stadia = 51' meters

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 BM21-51B TO BM21-51
BM21-51B					=								BM21-51B (USC&GS D-768) Esplanade and Ave I. See F.B. 3702-113
1	141	836	442	5	154 128	26	206	240	507	5	219 193	26	⊼ moore
BM21-51					|								BM21-51 (Torrance F-10) Esplanade and Ave I See F.B. 3702-113

Summation of Run
From B.M. 21-51B
To B.M. 21-51

Total Backsights = + 141.836
Total Foresights = − 206.240
Diff. Elev. = − 64.404

Backsight stadia = 26
Foresight Stadia = 26
Total Stadia = 52 meters

F.B. 3740 Pg. 156 JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES K.M. Kapp
INDEXED J. GALLI DATE

WEATHER Clear INST. NO. 96716
TIME 11:45 ROD NO. 9-19
NOTES CHKD [illegible] DATE JAN 8 '65

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
BM21-51B													FROM BM21-51B TO BM21-52B
1	299	602	600	5	299 278	21x2 42	4	883	305	5	26 4	22x2 44	BM21-51B (USC&GS D768 E Splanade & Ave. I.
2	246	437	547	5	275 217	58 100	81	435	382	5	111 51	60 104	See F.B. 3702-113
3	197	822	498	5	224 170	54 154	142	137	443	5	168 116	52 158	⊼ Bustrum
4.	157	878	458	5	185 129	56 210	138	611	439	5	166 110	56 212	Summation of Run From B.M. 21-51B To B.M. 21-52B
5	198	403	499	5	217 179	38 248	85	767	386	5	105 65	40 252	
6	286	588	587	5	286 269	17x2 34 282	23	033	324	5	40 6	34 286	Total Backsights = + 1624.348 Total Foresights = − 554.399 Diff. Elev. = +1069.949
7	237	618	538	5	252 222	30 312	78	533	379	5	90 66	24 310	Backsight stadia = 312 Foresight Stadia = 310 Total Stadia = 622 meters
	1624	348					554	399					
BM 21-52B													BM 21-52B. Pacific Coast Hwy and Palos Verdes Blvd. See F.B. 1392-207

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

SURVEY BY E. E. Brooks

NOTES BY E. E. Brooks DATE 20 Nov 1964

INDEXED C. J. GALLI DATE

WEATHER Clear

TIME 1150 - 2:20

NOTES CHKD [illegible] DATE 8 65

INST. NO. [illegible]

ROD NO. [illegible]

F.B. 3740 PG. 157

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. 3740 PG. 158 JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY E. E. Brooks NOTES K. M. Kapp

INDEXED C. J. GALLI DATE

WEATHER Clear INST. NO. 96716

TIME 10:55-11:45 ROD NO. P-12

NOTES CHKD. DATE

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA	
BM 21-52B												
1	69	722	370	5	82 56	26	228	813	529	5	241 215	26
2	19	850	320	5	87 1/2 19	18 36 62	283	771	584	5	299 267	32 58
3	77	604	378	5	96 58	38 100	177	688	478	5	197 157	40 98
4	130	912	431	5	158 102	56 156	161	548	462	5	189 133	56 154
5	144	838	445	5	171 117	54 210	201	375	502	5	227 175	52 206
6	87	840	388	5	58	58 268	244	053	542	5	271 211	60 266
7	3	085	304	5	24 1/2 3	21 42 310	298	062	599	5	298 1/2 278	20 40 306
8	148	939	449	5	149 147	2 312	160	644	461	5	161 159	2 308
BM 21-51B	682	790					1752	954				

DESCRIPTION AND REMARKS

FROM BM 21-52B TO BM 21-51B

BM 21-52B
Pacific Coast Hwy and
Palos Verdes Blvd.
See F.B. 1392-207

T Moore

Summation of Run
From B.M. 21-52B
To B.M. 21-51B

Total Backsights = + 682.790
Total Foresights = − 1752.954
Diff. Elev. = −1070.164

Backsight stadia = 312
Foresight Stadia = 308
Total Stadia = 620 meters

BM 21-51B (USC&GS D 768)
Esplanade and Ave I.
See F.B. 3702-113

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 BM21-52B BM21-52A
BM 21-52B													BM 21 52 B Pacific Coast Hwy & Palos Verdes Blvd
	156	875	457	5	173 139	34	33	128	334	5	50 15	35	See FB 1392-207
													⊼ Bustrum
BM 21-52A													BM 21-52 A Pacific Coast Hwy and Palos Verdes Blvd. See F.B. 1392-207

Summation of Run
From B.M. 21-52 B
To B.M. 21-52 A

Total Backsights = + 156.875
Total Foresights = − 33.128
Diff. Elev. = +123.747

Backsight stadia = 34
Foresight Stadia = 35
Total Stadia = 69 meters

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

SURVEY BY E. E. Brooks WEATHER Clear INST. NO. 96716

NOTES BY E. E. Brooks DATE 20 Nov. 1964 TIME 2:25 ROD NO. 9-19

INDEXED C. J. GALLI DATE NOTES CHKD [illegible] DATE 8 '65

F.B. 3740 PG. 159

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 BM21-52A TO BM21-52B
BM21-52A													BM 21-52 A Pacific Coast Hwy and Palos Verdes Blvd. See F.B. 1392-207
1	37	057	338	5	55 19	36	160	849	461	5	177 143	34	⊼ Moore
BM 21-52B													BM 21-52B Pacific Coast Hwy and Palos Verdes Blvd. See F.B. 1392-207

Summation of Run
From B.M. 21-52A
To B.M. 21-52B

Total Backsights = + 37.057
Total Foresights = − 160.849
Diff. Elev. = − 123.792

Backsight stadia = 36
Foresight Stadia = 34
Total Stadia = 70 meters

F.B. 3740 Pg. 160 JOB NO. 0901.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES K. M. Kapp
INDEXED C. J. GALLE DATE

WEATHER Clear INST. NO. 96716
TIME 10:45 ROD NO. 9-19
NOTES CHKD [illegible] DATE 8 '65

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 21-52A TO BM 21-52C
BM 21-52A													BM 21-52A Pacific Coast Hwy & Palos Verdes Blvd.
	118	763	419	5	126 ~~110~~	16	219	658	520	5	228 ~~210~~	18	See FB 1392-207
													T Bustrum
BM 21-52C													BM 21-52C (USC&GS E-768 Reset) Pacific Coast Hwy and Hollywood Palos Verdes Pk'wy. See F.B. 3702-115

Summation of Elev.
From B.M. 21-52A
To B.M. 21-52C

Total Backsights = + 118.763
Total Foresights = − 219.658
Diff. Elev. = −100.895

Backsight stadia = 16
Foresight Stadia = 18
Total Stadia = 34 meters

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

SURVEY BY E. E. Brooks WEATHER Clear INST. NO. 26776

NOTES BY E. E. Brooks DATE 20 Nov 1964 TIME 2:30 ROD NO. P-18

INDEXED C. J. GALLI DATE NOTES CHKD DATE

F.B. 3740 PG. 16

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 BM21-52C TO BM21-52A
BM21-52C													BM 21-52C (USC&GS E768 Reset) Pacific Coast Hwy and Hollywood Palos Verdes Pkwy See F.B. 3702-115
1	224	034	525	5	233 217	16	123	086	424	5	131 115	16	⊼ Moore
BM21-52A													BM21-52A Pacific Coast Hwy and Palos Verdes Blvd. See F.B. 1392-207

Summation of Run
From B.M. 21-52C
To B.M. 21-52A

Total Backsights = + 224.034
Total Foresights = − 123.086
Diff. Elev. = 100.948

Backsight stadia = 16
Foresight Stadia = 16
Total Stadia = 32 meters

WEATHER Clear INST. NO. PL 716
TIME 10:45 ROD NO. 9-18
NOTES CHKD [signature] DATE JUN 8 '65

F.B. 3740 PG. 162 JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES K. M. Kapp
INDEXED C. J. GALLI DATE

76P526 CE # 308 3-61

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
BM 21-52C									FROM BM21-52C TO BM 21-54
1.	237	762	538 5	250 224 26	22	842	323 5	34 10 24	BM 21-52C (US COGS E 768 Rest) Pacific Coast Hwy and Hollywood Palos Verdes Pkwy. See F.B. 3702-115
2.	295	111	596 5	295 271 24x2 48 74	60	792	361 5	82 38 44 68	
3.	196	568	497 5	222 170 52 126	71	530	372 5	98 44 54 122	Π Kapp
4.	250	527	551 5	277 223 54 180	91	053	392 5	121 61 60 182	Summation of Run From B.M. 21-52C To B.M. 21-54
5.	173	013	474 5	200 146 54 234	114	486	415 5	140 88 52 234	
6.	187	070	488 5	216 158 58 292	140	058	441 5	169 111 58 292	Total Backsights = + 1528.226
7.	188	175	489 5	217 159 58 350	51	972	352 5	81 51 30x2 60 352	Total Foresights = − 552.733
	1528	226			522	733			Diff. Elev. = + 975.493
BM 21-54									BM 21-54 Pacific Coast Hwy and Vista Del Parque (East) See F.B. 1391-53

Backsight stadia = 350

Foresight Stadia = 352

Total Stadia = 702

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

SURVEY BY E. E. Brooks

NOTES BY M. Rustrum DATE 11-30-64

INDEXED C. J. GALLE DATE

WEATHER Clear

TIME 1:50-2:10

NOTES CHKD [illegible] DATE 3 '65

INST. NO. 96716

ROD NO. 9-19

F.B. 3740 Pg. 163

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

INST. NO. 96716 ROD NO. 9-19 DATE JAN 8 '65

WEATHER clear TIME 2:30-4:55 NOTES CHKD

SURVEY OF Tie A Co. Bm. to Tie B Co. Bm.

SURVEY BY Ed Black NOTES on Back

INDEXED G. J. Gatt DATE

JOB NO. 03.01.02

F.B. 3740 PG. 164

STATION	BACKSIGHT Right	Mic.	Left	Stadia	FORESIGHT Right	Mic.	Left	Stadia	DESCRIPTION AND REMARKS
									FROM BM21-54 TO BM21-52C
BM21-54									BM21-54 Pacific Coast Hwy and Vista Del Parque (East) See F.B. 1391-53
1	53	164	354 5	832 30 53 60	185	257	486 5	215 155 60	
2	135	798	436 5	163 107 56 116	187	012	488 5	216 158 58 118	T Kapp
3	118	120	419 5	142 26x2 118 52 168	176	310	477 5	203 149 54 172	Summation of Run From B.M. 21-54 To B.M. 21-52C
4	83	338	384 5	112 58 54 226	237	595	538 5	265 209 56 228	
5	69	702	370 5	94 50 44 276	218	789	519 5	244 192 52 280	
6	66	112	367 5	91 25x2 66 50 326	282	458	583 5	282 23x2 259 46 326	Total Backsights = 555.544 ✓ Total Foresights = 1531.120 ✓ Diff. Elev. = −975.576 ✓
7	29	310	330 5	92 26 16 352	243	699	594 5	256 26 230 352	
	555	544			1531	120			
BM21-52C									BM21-52C (USC&GS F7LB Rsd) Pacific Coast Hwy and Hollywood Palos Verdes Pkwy. See F.B. 3962-115

Backsight stadia = 352 ✓

Foresight Stadia = 352 ✓

Total Stadia = 704

76P526 CE # 308 3-61

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES TO THIS SHEET MUST BE MADE OR CHECKED 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 BM21-54 TO BM21-54A
BM21-54	BM 21-54A								BM 21-54 Pacific Coast Hwy and Vista Del Parque (East)
1	131	927	432 5	158 287 131 54	260	900	661 5	287 233 54	See F.B. 1391-53
2	32	491	333 5	57 7 50 104	293	411	594 5	293 250 268 50 104	T Kapp
	164	418			554	311			
BM21-54A	— BM 21-54								BM21-54A (USC&GS X1053) Pacific Coast Hwy 0.10 Mi. E. of Pasco De Gracia See F.B. 1391-53A

Summation of Run
From B.M. 21-54
To B.M. 21-54A

Total Backsights = + 164.418
Total Foresights = − 554.311
Diff. Elev. = − 389.893

Backsight stadia = 104
Foresight Stadia = 104
Total Stadia = 208 meters

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

SURVEY BY E. E. Brooks

NOTES BY F.E.B.

INDEXED C. J. GALLI

DATE 20 Nov 1964

WEATHER Clear

TIME 2:20 - 2:25

INST. NO. 96516

ROD NO. 8-19

NOTES CHKD

DATE JAN 8 '65

F.B. 3749 PG. 144

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	BACKSIGHT				FORESIGHT				DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT.	STADIA	RIGHT	MIC.	LEFT.	STADIA	FROM BM21-54A TO BM21-54
~~BM 21-54A~~	21-54								BM21-54A (USC&GS X1053) Pacific Coast Hwy [illegible] mi E. of Paseo De Gracia See F.B. 1391-53A.
1	300	849	601 5	300 / 276 / 24x2 / 48	39	908	340 5	65 / 13 / 52	
2	262	739	563 5	289 / 235 / 54 / 102	133	758	434 5	160 / 133 / 27x / 54 / 106	⊼ Kapp
	563	588			173	666			
~~BM21-54~~	BM 21-54 A								BM 21-54 Pacific Coast Hwy and Vista Del Parque (East) See F.B. 1391-53

Summation of Run
From B.M. 21-54 A
To B.M. 21-54

Total Backsights = + 563.588
Total Foresights = − 173.666
Diff. Elev. = + 389.922

Backsight stadia = 102
Foresight Stadia = 106
Total Stadia = 208 meters

F.B. 3740 PG. 164B JOB NO. 03 01.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES F.E.B.
INDEXED C. J. GALLI DATE

WEATHER Clear INST. NO. 94716
TIME 2:15 - 2:20 ROD NO. 9-19
NOTES CHKD [illegible] DATE JAN 8 '65

76P526 CE # 308 3-61

PLEASE RETURN TO

L[illegible] ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

[illegible]E: ANY ADDITIONS OR CHANGES [illegible] HIS SHEET MUST BE MADE OR C[illegible]LED 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 BM21-54A TO BM21-55A
BM 21-54A									BM21-54A (USC&GS X1053) Pacific Coast Hwy 0.10 mi. E. of Pasco De Gracia See F.B. 1391-53A
1	201	786	502 5	221 181 40	162	675	463 5	180 144 36	
2	228	922	529 5	248 208 40 80	145	207	446 5	166 124 42 78	T Moore
3	164	712	465 5	192 136 56 136	172	591	473 5	199 145 54 132	Summation of Run From B.M. 21-54A To B.M. 21-55A
4	61	593	362 5	84 38 46 182	247	780	548 5	272 223 49 181	
5	62	892	363 5	79 45 34 216	267 ~~265~~	580	568 5	282 252 30 211	
6	46	163	347 5	62 30 32 248	301	982	602 5	301 1/2 285 16 32 243	Total Backsights = + 847.455 Total Foresights = − 1865.290 Diff. Elev. = −1017.835
7	33	197	334 5	43 24 19 267	273	570	574 5	286 260 26 269	
8	48	190	349 5	63 33 30 297	293	905	594 5	293 1/2 278 15 30 299	Backsight stadia = 297 Foresight Stadia = 299 Total Stadia = 596 Meters
	847	455			1865	290			
BM 21-55A									BM 21-55A Pacific Coast Hwy. & Calle Mayor See F.B. 1391-53 B

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

SURVEY BY E. E. Brooks

NOTES BY K.M. Kapp DATE 11-25-64

INDEXED C. J. GALLI DATE

WEATHER Hazy-Windy INST. NO. 96716

TIME 9:30-10:20 ROD NO. 9-19

NOTES CHKD [illegible] DATE JAN 8 '65

F.B. 3740 PG. 165

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
									FROM BM 21-55A TO BM 21-54A
BM 21-55A									BM 21-55A Pacific Coast Hwy. & Calle Mayor See F.B. 1391-53B
1	287	257	588 5	302 272 30	41	268	342 5	55 27 28	
2	259	549	560 5	270 248 22 52	13	788	314 5	24 2 22 50	π Kapp
3	298	670	599 5	298 281 1742 37 80	29	596	330 5	45 13 32 82	Summation of Run From B.M. 21-55A To B.M. 21-54A
4	259	275	560 5	273 245 28 119	74	342	375 5	90 58 32 119	
5	292	396	573 5	296 248 48 162	108	852	409 5	132 84 48 162	Total Backsights = + 1884.074 Total Foresights = − 866.276 Diff. Elev. = +1017.798
6	222	999	523 5	250 194 56 218	193	100	494 5	221 165 56 218	
7	157	648	454 5	173 133 40 258	196	850	497 5	216 176 40 258	
8	130	280	431 5	147 113 34 292	208	680	509 5	228 188 40 298	Backsight stadia = 292 Foresight Stadia = 298 Total Stadia = 590 meters
	1884	074			866	276			
BM 21-54A									BM 21-54A (USC&GS X1053) Pacific Coast Hwy., 0.10 Mi. E. of Paseo De Gracia See F.B. 1391-53A

WEATHER Clear INST. NO. 96716
TIME 11:35-12:05 ROD NO. 9-19
NOTES CHKD [illegible] DATE [illegible]

F.B. 3740 PG. 166 JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES F.E.B.
INDEXED C. J. GALLI DATE

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

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

SURVEY BY F. E. Brooks WEATHER Clear INST. NO. 96716

NOTES BY F. E. Brooks DATE 25 Nov. 1964 TIME 10:20 – 11:05 ROD NO. 9-19

INDEXED C. J. GALLI DATE NOTES CHKD [illegible] DATE JUL 8 '65

F.B. 3740 Pg. 167

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA		DESCRIPTION AND REMARKS FROM BM21-55A TO BM21-56B
BM21-55A													BM21-55A Pacific Coast Hwy & Calle Mayor
1	145	913	446	5	158 / 132	26	283	522	584	5	297 / 269	28	
2	24	361	325	5	39 / 9	30 / 56	271	328	572	5	286 / 256	30 / 58	See FB 1391-53B
3	54	953	355	5	73 / 35	38 / 94	199	439	500	5	219 / 179	40 / 98	⊼ Moore
4	120	644	481	5	206 / 154	52 / 146	50	994	351	5	75 / 25	50 / 148	
5	257	753	558	5	282 / 232	50 / 196	44	753	345	5	68 / 21	47 / 195	
6	197	501	498	5	225 / 169	56 / 252	157	138	458	5	185 / 129	56 / 251	
7	65	416	366	5	90 / 40	50 / 302	257	492	558	5	282 / 232	50 / 301	
8	118	761	419	5	123 / 113	10 / 312	53	578		5	57 / 48	9 / 310	
	1045	302					1318	244					steel tape used for foresight
BM21-56B													BM21-56B (US C&GS W1053) Pacific Coast Hwy and Hawlee Lane See F.B. 3702-121

Summation of Run
From B.M. 21-55A
To B.M. 21-56

Total Backsights = 1045.302
Total Foresights = 1318.244
Diff. Elev. = – 272.942

Backsight Stadia = 312
Foresight Stadia = 310
Total Stadia = 622 metres

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 21-56B TO BM 21-55A
BM 21-56B steel tape used													BM 21-56 B (USC&GS W 1053) Pacific Coast Hwy and Harlee Lane See F.B. 3702-121 A Kapp
1	62	432			67 57	10	129	280	430	5	134 124	10	
2	271	701	572	5	296 246	50 60	77	530	378	5	102 52	50 60	
3	169	932	470	5	198 140	58 108	211	222	512	5	237 183	56 116	
4	56	385	357	5	79 33	46 164	270	259	571	5	295 245	50 166	
5	61	682	362	5	87 35	52 216	189	938	490	5	214 164	50 216	
6	203	932	504	5	223 183	40 256	59	405	360	5	78 40	38 254	
7	272	680	573	5	287 257	30 286	25	670	326	5	40 10	30 284	
8	286	620	587	5	300 272	28 314	148	857	449	5	161 135	26 310	
	1385	364					1112	161					
BM 21-55A													BM 21-55 A. Pacific Coast Hwy and Calle Mayor See F.B. 1391-53B

Summation of Run
From B.M. 21 56B
To B.M. 21 55A

Total Backsights = + 1385.364
Total Foresights = − 1112.161
Diff. Elev. = + 273.203

Backsight stadia = 314
Foresight Stadia = 310
Total Stadia = 624 Meters

F.B. 3746 Pg. 168
JOB NO. 0301.03
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY F. E. Brooks NOTES M. Bushnell
INDEXED C. J. [illegible] DATE
WEATHER clear INST. NO. 96716
TIME 11:00-11:35 ROD NO. 9-19
NOTES CHKD. [illegible] DATE 8 '65

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 BM21-56B to BM21-56A
BM21-56B													BM21-56B (USC&GS W1053) Pacific Coast Hwy & Hardee Lane
1	16	283			18 / 14	4	162	058	463	5	165 / 159	6	
2	35	908	336	5	51 / 19	32 / 36	181	848	482	5	198 / 164	34 / 40	See FB3702-121
~~3~~	52	18~~1~~9					343	906					steel tape used for back sight T Moore
~~4~~													
BM21-56A													BM21-56A Pacific Coast Hwy and South High School see F.B. 3702-121

Summation of Run
From B.M. 21-56B
To B.M. 21-56A

Total Backsights = + 52.18~~1~~9
Total Foresights = − 343.906
Diff. Elev. = − 291.7~~2~~5

Backsight stadia = 36
Foresight Stadia = 40
Total Stadia = 76 meters

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

SURVEY BY F. E. Brooks

NOTES BY F. E. Brooks DATE 25 Nov 1964

INDEXED C. J. GALLI DATE

WEATHER Clear

TIME 11:05-11:15

NOTES CHKD [illegible]

INST. NO. 96 [illegible]

ROD NO. 9-19

DATE [illegible]

F.B. 3740 Pg. 169

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 BM21-56A TO BM21-56B
BM21-56A													BM21-56A Pacific Coast Hwy and South High School See F.B. 3702-121
1	206	200	507	5	223 / 189	34	61	920	362	5	78 / 44	34	
2	173	258	474	5	176 / 170	6 / 40	25	806		5	27 / 23	4 / 38	✓ ⊼ Kapp
	379	458					87	726					steel tape used of foresight
BM21-56B													BM21-56B Pacific Coast Hwy and Harrlee Lane See F.B. 3702-121

Summation of Run
From B.M. 21-56A
To B.M. 21-56B

Total Backsights = + 379.458
Total Foresights = − 87.726
Diff. Elev. = +291.732

Backsight stadia = 40
Foresight Stadia = 38
Total Stadia = 78 meters

F.B. 3746 PG. 170 JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY F. E. Brooks NOTES P.E.B.

INDEXED C. J. GALLI DATE

WEATHER Clear INST. NO. 96716

TIME 10:55 - 11:00 ROD NO. 9-19

NOTES CHKD. [illegible] DATE JAN 8 '65

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. E. Brooks WEATHER Clear INST. NO. [illegible]

NOTES BY F. E. Brooks DATE 26 Nov 1964 TIME 11:15 - 11:45 ROD NO. [illegible]

INDEXED C. J. [illegible] DATE NOTES CHKD [illegible] DATE JAN 8 '65

F.B. 3746 Pg. 171

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA		DESCRIPTION AND REMARKS FROM BM21-56A TO BM21-57
BM21-56A													BM21-56A Pacific Coast Hwy at South High School
1	119	830	420	5	144 / 94	50	174	630	475	5	200 / 148	52	
2	112	096	413	5	139 / 85	54 / 104	146	100	447	5	174 / 119	55 / 109	See F.B. 3702 - 121
3	107	770	408	5	134 / 80	54 / 158	126	630	427	5	153 / 99	54 / 161	π Moore
4	153	588	454	5	180 / 126	54 / 212	107	760	408	5	134 / 80	54 / 215	
5	136	870	437	5	162 / 110	52 / 264	144	052	445	5	170 / 118	52 / 267	✓
	630	154 ✓					699	172 ✓					
BM21-57													BM21-57 (Torrance J-12) Pacific Coast Hwy 80± ft. W of Ladeen St. See F.B. 3702-123

Summation of Run
From B.M. 21-56A
To B.M. 21-57

Total Backsights = + 630.154 ✓
Total Foresights = − 699.172 ✓
Diff. Elev. = − 69.018 ✓

Backsight stadia = 264 ✓
Foresight Stadia = 267 ✓
Total Stadia = 531 ✓ meters

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 BM21-57 TO BM 21-56A
BM21-57													BM21-57 (Torrance S-12) Pacific Coast Hwy 304± ft W. of Ladeen St. See F.B. 3702-123
1	160	838 ~~818~~	461	5	186 134	52	160	875	461	5	186 134	52	
2	132	204	433	5	159 105	54 106	169	665	470	5	196 142	54 106	π Kapp
3	153	252	454	5	180 126	54 160	142	558 ~~540~~	443	5	169 115	54 160	
4	182	263	483	5	210 154	56 216	141	390	442	5	168 114	54 214	
5	179	532	480	5	205 153	52 268	124	558	425	5	150 98	52 266	
	808	089					739	046					
BM 21-56A													BM 21-56 A Pacific Coast Hwy at South High School See F.B. 3702-121

Summation of Run
From B.M. 21-57
To B.M. 21-56A

Total Backsights = 808.089
Total Foresights = − 739.046
Diff. Elev. = + 69.043

Backsight stadia = 268
Foresight Stadia = 266
Total Stadia = 534 meters

F.B. 3740 Pg. 192 JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY F. E. Brooks NOTES FEB.
INDEXED G. J. GALLI DATE

WEATHER Clear INST. NO. 96716
TIME 10:35-10:50 ROD NO. 9-19
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.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM21-57 TO BM21-58A
BM21-57													BM21-57 (Torrance J-12) Pacific Coast Hwy 304 ft ± W. of Ladeen. St.
1	187	034	488	5	214 160	54	140	628	441	5	168 112 ~~212~~	56	See FB 3702-123
													π Moore
BM 21-58A													BM 21-58A Pacific Coast Hwy. & Ladeene See F.B. 3702-125

Summation of Run
From B.M. 21-57
To B.M. 21-58 A

Total Backsights = + 187.034
Total Foresights = − 140.628
Diff. Elev. = + 46.406

Backsight stadia = 54
Foresight Stadia = 56
Total Stadia = 110 meters

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

SURVEY BY E. E. Brooks WEATHER Clear INST. NO. 96716

NOTES BY K. M. Kapp DATE 11-25-64 TIME 11:55 ROD NO. 9-19

INDEXED C. J. GALLI DATE NOTES CHKD [illegible] DATE JAN 8 '65

F.B. 3740 Pg. 193

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.

INST. NO. 26716 ROD NO. 9-19 DATE JAN 8 '65

WEATHER Clear TIME 10:30 NOTES CHKD. [illegible]

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM 21-58A TO BM 21-57
BM 21-58A													BM 21-58A Pacific Coast Hwy. & Lateene See F.B. 3702-125 T. Kapp
1	153	581	454	5	180 126	54	200	005	501	5	228 172	56	
BM 21-57													BM 21-57 (Torrance) ✓12) Pacific Coast Hwy., 304' ± W. of Lateene See F.B. 3702-123

Summation of Run
From B.M. 21-58A
To B.M. 21-57

Total Backsights = + 153.581 ✓
Total Foresights = − 200.005 ✓
Diff. Elev. = − 46.424 ✓

Backsight stadia = 54 ✓
Foresight Stadia = 56 ✓
Total Stadia = 110 meters

F.B. 3740 PG. 174 JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY E.E. Brooks NOTES F.E.B.

INDEXED C. J. GALLI 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.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT	FORESIGHT STADIA	DESCRIPTION AND REMARKS
									FROM BM 21-58A TO BM 21-59
BM 21-58A									BM 21-58A Pacific Coast Hwy & Ladeene St.
1	195	548	496 5	220 170 50	144	482	445 5	169 119 50	
2	175 ~~155~~	470	7 ~~456~~ 5	201 149 52 102	120	919	421 5	147 93 54 104	See FB 3702-125
3	205	663	506 5	230 180 50 152	95	654	396 5	181 69 52 156	π Moore
4	251	428	552 5	278 224 54 206	66	001	367 5	92 40 52 208	Summation of Run From B.M. 21-58A To B.M. 21-59
5	197	140	498 5	221 173 48 254	69	720	370 5	94 44 50 258	
6	200	711	501 5	217 184 33 287	192	932	493 5	207 177 30 288	
	1225	960			689	708			Total Backsights = + 1225.960
									Total Foresights = − 689.708
									Diff. Elev. = + 536.252
BM 21-59									BM 21-59 (Torrance K-12) Pacific Coast Hwy. & Hawthorne Ave. See F.B. 3702-127
									Backsight stadia = 287
									Foresight Stadia = 288
									Total Stadia = 575 meters

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

SURVEY BY E. E. Brooks WEATHER Clear INST. NO. 967K

NOTES BY K. M. Kapp DATE 11-25-64 TIME 1:15-1:45 ROD NO. 9-19

INDEXED C. J. GALLI DATE NOTES CHKD [illegible] DATE JUL 8 '65

F.B. 3740 Pg. 175

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.

INST. NO. 96716 ROD NO. 9-19 DATE JAN 8 '65

WEATHER Clear TIME 10:10 - 12:30 NOTES CHKD. [illegible]

F.B. 3740 Pg. 176 JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY E. E. Brooks NOTES FEB.

INDEXED C. J. GALLI DATE

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM 21-59 TO BM 21-58A
BM 21-59													BM 21-59 (Torrance K-12) Pacific Coast Hwy. & Hawthorne Ave. See F.B. 3702-127
1	195	058	496	5	240 / 180	30	202	950	503	5	218 / 186	32	
2	74	582	375	5	99 / 49	50 / 80	204	930	505	5	228 / 180	48 / 80	π Kapp
3	77	330	288	5	104 / 50	54 / 134	243	805	544	5	270 / 216	54 / 134	Summation of Run From B.M. 21-59 To B.M. 21-58A
4	58	053	359	5	84 / 32	52 / 186	190	880	491	5	215 / 165	50 / 184	
5	130	823	431	5	157 / 103	54 / 240	178	945	449	5	224 / 152	52 / 236	Total Backsights = + 687.637
6	151	811	452	5	175 / 127	48 / 288	202	610	503	5	228 / 177	50 / 286	Total Foresights = − 1224.020
	687	637					1224	020					Diff. Elev. = − 536.383
BM 21-58A													BM 21-58A Pacific Coast Hwy. & Cadeene See F.B. 3702-125
													Backsight stadia = 288
													Foresight Stadia = 286
													Total Stadia = 574 meters

76P526B CE # 306 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 BM21-59 TO BM21-60D
BM21-59													BM 21-59 (Torrance K-12) Pacific Coast Hwy & Hawthorne Ave
1	222	406	523	5	243 / 201	42	141	380	442	5	161 / 121	40	
2	202	241	503	5	227 / 177	50 / 92	81	668	382	5	107 / 55	52 / 92	See FB 3702-127
3	194	956	495	5	220 / 168	52 / 144	83	570	384	5	110 / 56	54 / 146	T Moore
4	219	318	520	5	247 / 191	56 / 200	58	482	359	5	85 / 31	54 / 200	
5	203	548	504	5	230 / 176	54 / 254	76	371	377	5	102 / 60	52 / 252	Summation of Run From B.M. 21-59 To B.M. 21-60D
6	201	228	502	5	228 / 174	54 / 308	77	225	378	5	104 / 60	54 / 306	
7	206	511	507	5	232 / 179	53 / 361	69	412	370	5	95 / 44	51 / 357	Total Backsights = + 2054.732
8	237	749	538	5	266 / 208	58 / 419	108	340	409	5	177 / 79	58 / 415	Total Foresights = − 1239.229
9	161	308	462	5	186 / 136	50 / 469	132	308	433	5	156 / 108	48 / 463	Diff. Elev. = + 815.503
10	125	669	426	5	151 / 99	52 / 521	201	510	502	5	229 / 173	56 / 519	Backsight stadia = 579
11	99	998	380	5	108 / 50	58 / 579	208	963	509	5	237 / 179	58 / 577	Foresight Stadia = 577
	2054	732					1239	229					Total Stadia = 1156 meters
BM21-60D													BM 21-60D Pacific Coast Hwy & Torrance Municipal Airport. See FB. 3702-210

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

SURVEY BY E. E. Brooks

NOTES BY E. E. Brooks

DATE 25 Nov 1964

WEATHER Clear

TIME 1:45 - 2:45

INST. NO.

ROD NO.

INDEXED C. J. CALL

DATE

NOTES CHKD

DATE

F.B. 3740 Pg. 125

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. 3796 PG. 17A JOB NO. 3 or 4.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY E. E. Brooks NOTES M. Eastman

INDEXED C. J. GALLI DATE

WEATHER Clear-Hot INST. NO. 4716

TIME 9:20-10:05 ROD NO. 9-12

NOTES CHKD DATE JAN 8 '65

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA		DESCRIPTION AND REMARKS
													FROM BM 21-60D TO BM 21-59
BM 21-60D													BM 21-60 D Pacific Coast Hwy and Torrance Municipal Airport See F.B. 1392-210
1.	213	494	514	5	242 184	58	102	640	403	5	131 73	58	
2.	231	949	532	5	258 204	54 112	137	758	438	5	164 110	54 112	
3.	144	980	445	5	168 120	48 160	174	155	475	5	200 148	52 164	Summation of Run From B.M. 21-60D To B.M. 21-59
4.	113	840	414	5	142 84	58 218	242	680	543	5	270 214	56 220	
5.	72	361	373	5	98 46	52 270	209	921	510	5	236 182	54 274	
6.	70	747	371	5	98 42	56 326	194	272	495	5	226 168	52 326	Total Backsights = + 1316.941 ✓
7.	79	939	380	5	105 53	52 378	206	512	507	5	233 179	54 380	Total Foresights = − 2132.359 ✓
8.	75	025	376	5	102 48	54 432	236	941	537	5	264 208	56 436	Diff. Elev. = − 815.418 ✓
9.	86	880	387	5	113 59	54 486	194	247	498	5	223 171	52 488	
10.	82	880	383	5	108 56	52 538	204	088	505	5	230 178	52 540	Backsight stadia = 578 ✓ Foresight Stadia = 582 ✓ Total Stadia = 1160 Meters
11.	145	346	446	5	165 125	40 578	226	145	527	5	247 205	42 582	
	1316	941					2132	359					
BM 21-59													BM 21-59 (Torrance K-12) Pacific Coast Hwy and Hawthorne Ave See F.B. 3702-127

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 BM21-60D TO BM21-60C
BM21-60D	104	212	405	5	122 86	36	177	208	478	5	195 159	36	BM21-60D Pacific Coast Hwy & Torrance Municipal Airport. See F.B. 1392-210 T Moore
BM21-60C													BM21-60C Pacific Coast Hwy and Torrance Municipal Airport see F.B. 1392-209

Summation of Run
From B.M. 21-60D
To B.M. 21-60C

Total Backsights = + 104.212
Total Foresights = − 177.208
Diff. Elev. = − 72.996

Backsight stadia = 36
Foresight Stadia = 36
Total Stadia = 72 meters

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

SURVEY BY E. E. Brooks

NOTES BY E. E. Brooks DATE 25 Nov 1964 WEATHER Clear

INDEXED C. J. Gaul DATE NOTES CHKD [illegible] DATE JAN 8 '65

TIME 2:45 INST. NO. 32716 ROD NO. 9-19

F.B. 3740 Pg. 177

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 BM21-60 C TO BM21-60D
BM21-60C									BM21-60C Pacific Coast Hwy and Torrance Municipal Airport see F.B. 1392-209
1.	164	490	465 5	181 147 34	91	468	392 5	109 73 36	
									π Kapp
BM21-60D									BM21-60D Pacific Coast Hwy and Torrance Municipal Airport see F.B. 1392-210

Summation of Run
From B.M. 21-60C
To B.M. 21-60D

Total Backsights = + 164.490
Total Foresights = − 91.468
Diff. Elev. = + 73.022

Backsight stadia = 34
Foresight Stadia = 36
Total Stadia = 70 meters

WEATHER Clear INST. NO. 96716
TIME 9:15 ROD NO. 9-19
NOTES CHKD [illegible] DATE JAN 8 '65

F.B. 3740 PG. 178 JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY F. E. Brooks NOTES M. Bustrum
INDEXED G. J. GALLE 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.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM 21-60C TO BM 21-60B
BM 21-60C													BM 21-60 C. Pacific Coast Hwy & Torrance Municipal Air port.
1	145	138	446	5	164 / 126	38	156	815	457	5	176 / 136	40	
													See FB 1392-209
													T Moore
BM 21-60B													BM 21-60B (USCFGS X 767) Reset Pacific Coast Hwy. near Torrance Airport See F.B. 1392-208
													Summation of Run From B.M. 21-60 C To B.M. 21-60 B
													Total Backsights = + 145.138 Total Foresights = − 156.815 Diff. Elev = −11.677
													Backsight stadia = 38 Foresight Stadia = 40 Total Stadia = 78 Meters

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

SURVEY BY E.E. Brooks WEATHER Clear INST. NO. 26716

NOTES BY K.M. Kropp DATE 11-25-64 TIME 3:00 ROD NO. 8-18

INDEXED C.J. GALLE DATE NOTES CHKD DATE JAN 8 '65

F.B. 3740 Pg. 179

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 21-60B TO BM 21-60C
BM 21-60B													BM 21-60B (USC&GS X767) Reset Pacific Coast Hwy. near Torrance Airport See F.B. 1392-208
1	173	138	474	5	193 / 153	40	161	490	462	5	181 / 141	40	π Kapp
BM 21-60C													BM 21-60C Pacific Coast Hwy. & Torrance Municipal Airport See F.B. 1392-209

Summation of Run
From B.M. 21-60B
To B.M. 21-60C

Total Backsights = + 173.138
Total Foresights = − 161.490
Diff. Elev. = +11.648

Backsight stadia = 40
Foresight Stadia = 40
Total Stadia = 80 meters

F.B. 3740 Pg. 180 JOB NO. 0301.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES M. Bustrum
INDEXED C. J. GALLI DATE

WEATHER Clear INST. NO. 96716
TIME 9:10 ROD NO. 9-19
NOTES CHKD [illegible] DATE [illegible] 8 '65

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
BM21-60B.								
1	181	065	482 5	208 154 54	99 ~~100~~	976	400 ~~401~~ 5	127 71 56
2	244	882	545 5	270 218 52 106	50	358	351 5	76 24 52 108
3	226	083	527 5	253 199 54 160	47	753	348 5	72 21 51 159
4	211	291	512 5	238 184 54 214	97	194	398 5	124 70 54 213
5	224	133	525 5	252 196 56 270	79	962	380 5	107 51 56 269
6	207	198	508 5	234 180 54 324	122	658	423 5	150 94 56 325
7	133	405	434 5	161 106 55 379	176	533	477 5	204 148 56 381
8	146	212	447 5	174 119 55 434	204	749	505 5	231 177 54 435
9	136	933	437 5	148 124 24 458	195	478	496 5	209 181 28 463
	1711	202			1074	661		
BM 21-62A								

DESCRIPTION AND REMARKS

FROM BM 21-60B TO BM 21-62A

BM 21-60B (USC&GS X767 Rsd)
Pacific Coast Hwy
Near Torrance
Air Port.

F.B. See 1392-208

T ~~Kapp~~ Mather

Summation of Run
From B.M. 21-60B
To B.M. 21-62A

Total Backsights = + 1711.202
Total Foresights = − 1074.661
Diff. Elev. = + 636.541

Backsight stadia = 458
Foresight Stadia = 463
Total Stadia = 921 meters.

BM 21-62A
Pacific Coast Hwy. &
Crenshaw Blvd.
See F.B. 3702-135

JOB NO. 0301.02 SURVEY OF L.A. CO. PRECISE LEVEL NET
SURVEY BY R. E. Brooks 12-2-64
NOTES BY K. M. Kapp DATE 24 Nov 1964
INDEXED C. J. GALLI DATE
WEATHER Near-Windy
TIME 2:15-2:50
NOTES CHKD [illegible]
INST. NO. 96716
ROD NO. 9-19
DATE JAN 8 '65
F.B. 3746 Pg. 181

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 21-62A TO BM 21-60B
BM 21-62A													BM 21-62A Pacific Coast Hwy. & Crenshaw Blvd. See F.B. 3702-135
1	198	060	449	5	211 185	26	138	731	439	5	151 125	26	
2	211	290	512	5	238 184	54 80	153	010	454	5	181 125	56 82	
3	182	429	483	5	210 154	56 136	139	832	440	5	167 111	56 138	π Mr. Kapp
4	130	385	431	5	157 103	54 190	218	550	519	5	246 190	56 194	Summation of Run From B.M. 21-62A To B.M. 21-60B
5	90	595	391	5	118 62	56 246	231	382	532	5	259 203	56 250	
6	102	822	403	5	130 74	56 302	217	479	518	5	244 190	54 304	Total Backsights = + 1167.052 Total Foresights = − 1803.738 Diff. Elev. = − 636.686
7	68	715	369	5	94 42	52 354	247	928	548	5	274 220	54 358	
8	58	326	359	5	85 31	54 408	252	587	553	5	278 226	52 410	
9	124	430	425	5	152 96	56 464	204	239	505	5	231 177	54 464	Backsight stadia = 464 Foresight Stadia = 464 Total Stadia = 928 Meters
	1167	052					1803	738					
BM 21-60B													BM 21-60B (USC&GS Reset X767) Pacific Coast Hwy. near Torrance Airport See F.B. 1392-208

F.B. 3740 Pg. 182

JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY E. E. Brooks NOTES M. Bustrum

INDEXED C. J. GALLI DATE

WEATHER Clear INST. NO. 96716

TIME 11:15-11:45 ROD NO. 9-19

NOTES CHKD [illegible] DATE JAN 8 '65

76P526B CE # 308 6-59

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 BM21-62A TO BM21-63A
BM 21-62A													BM 21-62A Pacific Coast Hwy & Crenshaw Blvd.
1	119	332	420	5	145 / 93	52	172	989	473 / ~~474~~	5	198 / 146	52	
2	189	008	490	5	215 / 163	52 / 104	136	734	437	5	162 / 110	52 / 104	See FB 3702-135
3	106	658	407	5	131 / 81	50 / 154	212	023	513	5	237 / 187	50 / 154	π Mather
4	79	738	380	5	105 / 52	53 / 207	243	869	544	5	269 / 217	52 / 206	
5	83	459	384	5	108 / 58	50 / 257	209	910	510	5	234 / ~~148~~ 184	50 / 256	Summation of Bm From B.M. 21-62A To B.M. 21-63A
6	214	442	515	5	241 / 187	54 / 311	117	388	414	5	140 / 86	54 / 310	
7	195	118	496	5	221 / 169	52 / 363	108	101	409	5	134 / 82	52 / 362	Total Backsights = + 1374.374
8	196	879	497	5	196 / 170	26 / 52 / 415	117	888	418	5	145 / 89	56 / 418	Total Foresights = − 1426.260
9	~~194~~	~~958~~	~~495~~	~~5~~	~~224~~	~~60~~	111	358	412	5	138 / 84	54 / 472	Diff. Elev. = − 51.886
	189	780	490	5	216 / 162	54 / 469							Backsight stadia = 469
	1374	374					1426	260					Foresight Stadia = 472
													Total Stadia = 941 meters
BM 21-63A													BM21-63A (USC&G, E 767 Reset) Pacific Coast Hwy and Viana Ave See F.B. 3702-137

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

SURVEY BY E. E. Brooks WEATHER Clear-windy INST. NO. [illegible]

NOTES BY E. E. Brooks DATE 2 Dec 1964 TIME 2:50 - 3:30 ROD NO. [illegible]

INDEXED C. J. GALLI DATE NOTES CHKD [illegible] DATE [illegible]

F.B. 3740 Pg. 183

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 BM21-63A TO BM21-62A
BM 21-63A													BM21-63A (US C&GS E767 Reset) Pacific Coast Hwy and Viana Ave. see F.B. 3702-137
1	114	430	415	5	140 / 88	52	191	637	492	5	218 / 164	54	
2	119	648	420	5	146 / 92	54 / 106	204	470	505	5	230 / 178	52 / 106	π Kapp
3	116	972	417	5	142 / 90	52 / 158	201	511	502	5	227 / 175	52 / 158	
4	119	733	420	5	146 / 92	54 / 212	218	582	519	5	244 / 192	52 / 210	Summation of Bar From B.M. 21-63A To B.M. 21-62A
5	199	689	500	5	224 / 174	50 / 262	66	900	367	5	92 / 40	52 / 262	
6	239	040	540	5	265 / 213	52 / 314	78	884	379	5	104 / 52	52 / 314	Total Backsights = + 1441.396
7	214	008	515	5	239 / 189	50 / 364	107	280	408	5	132 / 82	50 / 364	Total Foresights = − 1387.903
8	138	116	439	5	164 / 112	52 / 416	193	950	494	5	219 / 167	52 / 416	Diff. Elev. = + 53.493
9	180	150	481	5	207 / 157	54 / 470	124	689	425	5	150 / 98	52 / 468	Backsight stadia = 470
	1441	396					1387	903					Foresight Stadia = 468
													Total Stadia = 938 meters
BM21-62A													BM21-62A Pacific Coast Hwy and Crenshaw Blvd. see F.B. 3702-135

F.B. 3740 Pg. 184 JOB NO. 0301.02

SURVEY OF R.A. Co. Precise Level Net

SURVEY BY E. E. Brooks NOTES FEB

INDEXED C. J. GALLI DATE

WEATHER Clear INST. NO. 2716

TIME 10:40 – 11:05 ROD NO. 9-19

NOTES CHKD [illegible] DATE 3 '65

76P526 CE # 308 3-61

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

NOTE: ANY ADDITIONS OR CHANGES TO THIS SHEET MUST BE MADE OR CHANGED 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 E. E. Brooks
NOTES BY F.B.
INDEXED C. J. GALLE
DATE 15 Dec 1964
DATE
WEATHER Clear
TIME 11:45-1:20
NOTES CHKD
DATE JAN 8 '65
INST. NO. 2-16
ROD NO. 2-19
F.B. 3746 PG. 18-A

STATION	BACKSIGHT Right	Mic.	Left	Stadia	FORESIGHT Right	Mic.	Left	Stadia	DESCRIPTION AND REMARKS
									FROM BM21-62A TO BM21-63A
BM21-62A									BM21-62A Pacific Coast Hwy and Crenshaw Blvd. See F.B. 3702-135
1	123	678	424 5	149 97 52	178	800	479 5	204 152 52	
2	191	015	492 5	217 165 52 104	135 ~~144~~	038	436 ~~495~~ 5	161 109 52 104	
3	107	270	408 5	132 82 50 154	213	528	514 5	238 188 50 154	
4	95	743	376 5	161 49 52 206	234	907	538 5	263 211 52 206	
5	83	810	384 5	106 56 50 256	~~214~~	941	515 5	239 189 50 256	
6	212	428	573 5	239 185 54 310	107	571	408 5	134 80 54 310	
7	201	495	502 5	230 172 58 368	123	561	424 5	152 94 58 368	
8	201	221	502 5	228 174 54 422	117	160	418 5	145 89 56 424	
9	194	449	495 5	220 168 52 474	116	092	417 5	142 90 52 476	
	1391	069			1444	398			
BM21-63A									BM21-63A (USC&GS E-967 Rod) Pacific Coast Hwy and Viana Ave See F.B. 3702:137

Summation of ~~Run~~
From B.M. 21-62A
To B.M. 21-63A

Total Backsights = + 1391.069
Total Foresights = − 1444.398
Diff. Elev. = − 53.329

Backsight stadia = 474
Foresight Stadia = 476
Total Stadia = 950 meters

F.B. 3740 PG. 1848 JOB NO.

SURVEY OF

SURVEY BY NOTES

INDEXED DATE

WEATHER INST. NO.

TIME ROD NO.

NOTES CHKD DATE

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

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

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
BM21-63A									FROM BM21-63A TO BM21-64
1	87	655	388 5	109 65 44	215	609	516 5	237 193 44	BM21-63A (USC&GS E767 Rset) Pacific Coast Hwy & Viana Ave
2	62	057	363 5	89 35 54 98	234	125	535 5	261 207 54 98	See FB 3702-137
3	85	272	386 5	115 55 60 158	220	173	521 5	250 191 59 157	T Mr. Bustrum
4	85	773	386 5	113 57 56 214	200	~~200~~ 615	~~615~~ 501 5	~~501~~ 229 171 58 215	Summation of Run From B.M. 21-63A To B.M. 21-64
5	118	145	419 5	145 91 54 268	184	947	485 5	208 160 48 263	
6	119	699	420 5	150 88 62 330	164	727	465 5	192 136 56 319	Total Backsights = 828.888 ✓ Total Foresights = 1483.972 ✓ Diff. Elev. = -655.084 ✓
7	135	873	436 5	159 111 48 378	168	393	469 5	196 140 56 375	
8	134	414	435 5	153 115 38 416	95	383	~~5~~	114 76 38 413	Backsight stadia = 416 ✓ Foresight Stadia = 413 ✓ Total Stadia = 829 ✓ Meters
	828	888 ✓			1483	972			
BM21-64									BM 21-64 (USC&GS 5-99) Pacific Coast Hwy., 206' ± W. of Eshelman Ave. See F.B. 1391-63

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

SURVEY BY L.E. Brooks WEATHER Hazy INST. NO. 96716

NOTES BY K. M. Kapp DATE 12-3-64 TIME 9:20-10:00 ROD NO. 9-19

INDEXED C. J. GALLI DATE NOTES CHKD [illegible] DATE JAN 8 '65

F.B. 3740 Pg. 185

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. 3740 PG. 186 JOB NO. 0301.02

SURVEY OF L.A. Co. Precise Level Net

SURVEY BY E. E. Brooks NOTES

INDEXED C. J. GALL DATE

WEATHER Clear INST. NO. 26716

TIME 9:25 ROD NO. 2-19

NOTES CHKD. DATE

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM 21-64 TO BM 21-63A
BM 21-64													BM 21-64 (USC&GS 5-99) Pacific Coast Hwy., 206' ± W. of Eshelman Ave. See F.B. 1391-63
1	93	197			112 74	38	132	503	433	5	151 113	38	
2	175	735	436	5	202 148	54 92	143	172	444	5	169 117	52 90	T Mr. Kapp
3	171	232	472	5	198 144	54 146	186	248	427	5	157 95	62 152	Summation of Run From B.M. 21-64 To B.M. 21-63A
4							122	337	423	5	149 95	54 206	
5	THIS RUN IS NO GOOD												Total Backsights = + Total Foresights = − Diff. Elev. =
6	TURN WAS MOVED												
7													
8													Backsight stadia = Foresight Stadia = Total Stadia =
BM 21-63A													BM 21-63A (USC&GS E747) Reset Pacific Coast Hwy. & Viana St. See F.B. 3702-137

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
BM 21-64									BM 21-64 (U.S.C.&G.S. S 99) Pacific Coast Hwy 206' ± W. of Eshelman Ave See FB 1391-63
1	92	120		111 73 38	131	538	432 5	150 112 38	
2	172	812	473 5	199 145 54 92	139	317	440 5	165 113 52 90	
3	175	074	476 5	204 146 58 150	130	872	431 5	160 100 60 150	⊤ Mr. Kapp.
4	191	232	492 5	216 166 50 200	124	224	425 5	150 90 52 202	Summation of [illegible] From B.M. 21-64 To B.M. 21-63A
5	205	853	506 5	234 176 58 258	90	922	391 5	118 62 56 258	
6	225	488	526 5	254 196 58 316	90	914	391 5	120 60 60 318	
7	239	672	540 5	266 212 54 370	67	320	368 5	94 40 54 372	Total Backsights = + 1532.361 ✓ Total Foresights = − 877.048 ✓ Diff. Elev. = + 655.313 ✓
8	230	110	531 5	252 208 44 414	101	941	402 5	123 79 44 416	✓
	1532	361	✓		877	048	✓		
BM 21-63A									BM 21-63A (USC.&G.S. RESET E 767) Pacific Coast Hwy & Viana St. See FB 3702-137

Backsight stadia = 414 ✓
Foresight Stadia = 416 ✓
Total Stadia = 830 ✓ Meters

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

SURVEY BY L. E. Brooks WEATHER Clear INST. NO. 9676

NOTES BY M. Bustrum DATE 12-4-64 TIME 10:15-10:35 ROD NO. 9-19

INDEXED C. J. GALLI DATE NOTES CHKD [illegible] DATE 8 '65

F.B. 3740 Pg. 18[illegible]

F.B. 3740 Pg. 186B JOB NO.

SURVEY OF

SURVEY BY NOTES

INDEXED DATE

WEATHER INST. NO.

TIME ROD NO.

NOTES CHKD DATE

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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

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

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 21-64 TO BM 21-66
BM21-64													BM 21-64 (USC&GS 5-99) Pacific Coast Hwy 206 Ft. ± W. of Eshelman Ave
1	52	433		5	55 48	7	160	901	461	5	164 157	7	
2	61	093	362	5	80 41	39 46	185	158	486	5	205 165	40 49	See F.B. 1391-63
3	53	279	354	5	81 25	56 102	228	300	529	5	255 201	54 101	steel tape used on Backsight ⊼ Bustrum
4	67	602	368	5	93 41	52 154	207	091	508	5	233 181	52 153	
5	91	361	392	5	121 62	59 213	235	563	536	5	265 205	60 213	Summation of Run From B.M. 21-64 To B.M. 21-66
6	73	853	374	5	100 47	53 266	238	421	539	5	266 210	56 269	Total Backsights = + 562.838
7	37	760	338	5	67 8	59 325	226	672	527	5	256 196	60 329	Total Foresights = − 1698.334
8	125	457	426	5	140 110	30 355	216	228	517	5	231 201	30 359	Diff. Elev. = −1135.496
	562	838					1698	334					Backsight stadia = 355
													Foresight Stadia = 359
													Total Stadia = 714 meters
BM21-66													BM 21-66 Pacific Coast Hwy and Western Ave See F.B. 1391-62

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

SURVEY BY E. E. Brooks DATE 3 Dec 1964 WEATHER Hazy INST. NO. 26716

NOTES BY E. E. Brooks DATE TIME 1010 ROD NO. 9-19

INDEXED C. J. GALLE DATE NOTES CHKD. DATE JAN 8 '65

F.B. 3440 PG. 187

F.B. 3740 Pg. 100 JOB NO. 0301.02

SURVEY OF E.A. Co. Precise Level Net

SURVEY BY F. E. Brooks NOTES FEB

INDEXED C. J. GALLI DATE

Weather: Clear

Time 9:15 – 9:40

CMKD

Date 8 '63

9-19

Station	Backsight Right	Backsight Mic	Backsight Left		Backsight Stadia		Foresight Right	Foresight Mic	Foresight Left		Foresight Stadia	
BM21-66												
1	218	739	519	5	237 207	30	126	186	427	5	141 111	30
2	235	542	536	5	266 204	62 92	49	639	350	5	79 19	60 90
3	245	382	546	5	273 217	56 146	79	091	380	5	106 52	54 144
4	242	532	543	5	272 212	60 208	98	447	399	5	127 69	58 202
5	209	878	510	5	234 184	50 258	90	515	371	5	97 43	54 256
6	237	336	538	5	264 210	54 312	62	158	363	5	90 34	56 312
7	189	705	490	5	209 169	40 352	65	538	366	5	84 46	38 350
8	169	341	470	5	172 166	6 358	61	097			65 57	8 358
	1746	055					612	471				
BM21-64												

From BM 21-66 To BM 21-64

BM 21-66
Pacific Coast Hwy and
Western Ave
See F.B. 1391-62

T Kapp

Summation of Rur
From B.M. 21-66
To B.M. 21-64

Total Backsights = + 1746.055
Total Foresights = − 612.471
Diff. Elev. = +1135.584

Backsight stadia = 358
Foresight Stadia = 358
Total Stadia = 716 meters

Steel tape used on foresight

BM 21-64 (USC&GS 5-99)
Pacific Coast Hwy 206 ft t
W. of Eshelman Ave
See F.B. 1391-63

76P526B CE # 308 6-59

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 E. E. Brooks WEATHER Overcast INST. NO. 92716

NOTES BY K. M. Karp DATE 12-3-64 TIME 10:40-11:15 ROD NO. 9-19

INDEXED C. J. Gall DATE NOTES CHKD DATE NOV 8 '65

F.B. 3740 Pg. 64

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA		DESCRIPTION AND REMARKS FROM BM21-66 TO BM21-~~73~~ 66A
BM21-66													BM21-66 Pacific Coast Hwy & Western Ave.
1	155	177	456	5	175 / 135	40	185	807	485	5	204 / 164	40	
2	108	035	409	5	135 / 81	54 / 94	194	165	495	5	221 / 167	54 / 94	See FB 1391-62
3	99	582	400	5	127 / 71	56 / 150	197	691	498	5	224 / 170	54 / 148	& Mr. Bustrum
4	110	370	411	5	136 / 83	53 / 203	214	572	515	5	241 / 187	54 / 202	Summation of Run From B.M. 21-66 To B.M. 21-~~73~~ 66A
5	31	337	332	5	48 / 14	34 / 237	284	987	585	5	301 / 268	33 / 235	
6	16	543	317	5	25 / 7	18 / 255	267	469	568	5	276 / 259	17 / 252	Total Backsights = + 799.080 ✓ Total Foresights = − 2039.255 ✓ Diff. Elev. = − 1240.175 ✓
7	65	301	366	5	73 / 56	17 / 272	232	835	533	5	240 / 224	16 / 268	
8	64	363	365	5	73 / 55	18 / 290	242	182	543	5	252 / 232	20 / 288	Backsight stadia = 315 ✓ Foresight Stadia = 314 ✓ Total Stadia = 629 ✓ Meters
9	148	372	449	5	160 / 135	25 / 315	220 ✓	547	521	5	233 / 207	26 / 314	
	799	080 ✓					2039	255 ✓					
BM21-73													BM21-~~73~~ 66A Pacific Coast Hwy. & Belle Porte Ave. See F.B. 3702-143

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					
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA	
BM 21-73												
1	220	868	521	5	233 207	26	149	121	450	5	162 137	25
2	233	321	534	5	243 223	20 46	50	900	351	5	60 41	19 44
3	246	625	547	5	254 238	16 62	83	985	384	5	91 75	16 60
4	266	411	567	5	275 257	18 80	14	851	315	5	23 5	18 78
5	275	468	576	5	291 259	32 112	19	359	320	5	36 2	34 112
6	216	418	517	5	243 189	54 166	113	418	414	5	139 86	53 165
7	199	463	500	5	226 172	54 220	103	382	404	5	131 75	56 221
8	194	522	495	5	221 167	54 274	107	000	408	5	134 80	54 275
9	186	470	487	5	206 166	40 314	157	000	458	5	147 107	40 315
	2039	566					799	016				
BM 21-~~73~~ 66												

DESCRIPTION AND REMARKS

FROM BM 21-~~73~~ 66A TO BM 21-66

BM 21-~~73~~ 66A
Pacific Coast Hwy. &
Belle Porte Ave.
See F.B. 3702-143

π Mr. Dirty Moore

Summation of Run 66A
From B.M. 21-~~73~~
To B.M. 21-66

Total Backsights = + 2039.566
Total Foresights = − 799.016
Diff. Elev. = + 1240.550

Backsight stadia = 314
Foresight Stadia = 315
Total Stadia = 629 Meters

BM 21-~~73~~ 66
Pacific Coast Hwy. &
Western Ave.
See F.B. 1391-62

WEATHER Hazy-Windy INST. NO. 96716
TIME 3:05-3:40 ROD NO. 9-19
NOTES CHKD. [illegible] DATE JAN 8 '69

F.B. 3740 PG. 190 JOB NO. 0301.02
SURVEY OF EA. Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES K. M. Kapp
INDEXED G. J. GALLI DATE

76P526 CE # 308 3-61

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT.	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT.	FORESIGHT STADIA	DESCRIPTION AND REMARKS
BM 21-73									FROM BM 21-~~73~~ 66A TO BM21-66
1	203	711	504 5	212 / 194 18	105	790	406 5	96 / 114 18	BM21-~~73~~ 66A Pacific Coast Hwy and Belle Porte Ave. See F.B. 3702-143
2	253	408	554 5	264 / 242 22 / 40	41	120	342 5	52 / 30 22 / 40	T Kapp
3	270	170	571 5	280 / 260 20 / 60	54	339	355 5	63 / 45 18 / 58	
4	261	390	562 5	271 / 251 20 / 80	65	755	366 5	76 / 54 22 / 80	Summation of Run 66A From B.M. 21-~~73~~ To B.M. 21-66
5	285	548	586 5	296 / 274 22 / 102	87	438	388 5	98 / 76 22 / 102	
6	217	057	518 5	241 / 193 48 / 150	121	855	422 5	146 / 96 50 / 152	Total Backsights = + 2105.129 ✓
7	209	060	510 5	236 / 182 54 / 204	111	549	412 5	139 / 83 56 / 208	Total Foresights = − 864.738 ✓
8	208	892	509 5	236 / 180 56 / 260	113	999	414 5	138 / 88 50 / 258	Diff. Elev. = + 1240.391 ✓
9	195	893	496 / ~~497~~ 5	218 / 172 46 / 306	162	893	463 5	182 / 142 40 / 298	Backsight stadia = 306 ✓ Foresight Stadia = 298 ✓ Total Stadia = 604 ✓ meters
	2105	129 ✓			864	738 ✓			
BM21-66									BM 21-66 Pacific Coast Hwy and Western Ave. See F.B. 3791-62

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

SURVEY BY E. E. Brooks DATE 15 Dec 1964 WEATHER Clear INST. NO. 96716

NOTES BY F.E.B. TIME 10:55-11:25 ROD NO. 9-19

INDEXED C. J. GALLI DATE NOTES CHKD. [illegible] DATE JAN 8 '65

F.B. 3740 Pg. 190A

F.B. 3740 PG. 190B JOB NO.

SURVEY OF

SURVEY BY NOTES

INDEXED DATE

WEATHER INST. NO.

TIME ROD NO.

NOTES CHKD DATE

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

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LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76P526B CE # 308 6-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

SURVEY BY E. E. Brooks WEATHER Hazy

NOTES BY E. E. Brooks DATE 3 Dec 1964 TIME 11:15 – 11:30 INST. NO. 4-11

INDEXED C. J. GALLI DATE NOTES CHKD. DATE JAN 8 '65 ROD NO. 2-11

F.B. 3740 Pg. 111

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA		DESCRIPTION AND REMARKS
													FROM BM21-73 66A TO BM21-67
BM21-73													BM21-73 Pacific Coast Hwy & Belle Porte Ave
1	178	317	479	5	197 159	38	161	305	462	5	189 143	36	
2	221	273	522	5	247 195	52 90	41	273	342	5	66 16	50 86	See FB. 3702-143
3	189	048	490	5	215 163	52 140	119	069	420	5	147 91	56 140	T Bustrum
4	166	042	467	5	185 147	38 180	170	431	471	5	189 151	38 180	
	755	360					493	378					
BM21-67													BM21-67 (Wilmington A-16) Pacific Coast Hwy and Normandie Ave See F.B. 3702-145

Summation of Run 66A
From B.M. 21-73
To B.M. 21-67

Total Backsights = + 755.360
Total Foresights = − 493.378
Diff. Elev. = +261.982

Backsight stadia = 180
Foresight Stadia = 180
Total Stadia = 360 meters

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM21-67 TO BM21-~~73~~ 66A
BM21-67													BM21-67 (Wilmington A-2) Pacific Coast Hwy and Normandie Ave See F.B. 3702-145
1	177	131	478	5	196 / 158	38	171	572	472	5	190 / 152	38	
2	123	532	424	5	150 / 96	54 / 92	192	952	493	5	219 / 165	54 / 92	A Moore
3	38	609	339	5	64 / 12	52 / 144	220	217	521	5	246 / 194	52 / 144	
4	167	628	468	5	185 / 149	36 / 180	184	132	485	5	203 / 165	38 / 182	
	506	900					768	873					
BM21-~~73~~													BM21-~~73~~ 66A Pacific Coast Hwy and Belle Porte Ave See F.B. 3702-143

Summation of Run
From B.M. 21-67
To B.M. 21-~~73~~ 66A

Total Backsights = + 506.900
Total Foresights = − 768.873
Diff. Elev. = − 261.973

Backsight stadia = 180
Foresight Stadia = 182
Total Stadia = 362 meters

F.B. 3740 Pg. 192 JOB NO. 0301.02
SURVEY OF LA Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES F.E.B.
INDEXED C. J. GALLI DATE

WEATHER Hazy INST. NO. 96716
TIME 1:45-3:00 ROD NO. 9-19
NOTES CHKD [illegible] DATE JAN 8 '65

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM 21-67 TO BM 21-68
BM 21-67													BM 21-67 (Wilmington A-2) Pacific Coast Hwy & Normandie Ave
	179	581	480	5	194 165	29	152	642	453	5	166 138	28	See FB 3702-145
													⊼ Bustrum
BM 21-68													BM 21-68 (USC&GS Y780) Pacific Coast Hwy and Normandie Ave see F.B. 3702-145

Summation of Run
From B.M. 21-67
To B.M. 21-68

Total Backsights = + 179.581
Total Foresights = − 152.642
Diff. Elev. = + 26.939

Backsight stadia = 29
Foresight Stadia = 28
Total Stadia = 57 meters

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

SURVEY BY F. E. Brooks WEATHER Hazy INST. NO. 9677

NOTES BY F. E. Brooks DATE 3 Dec 1964 TIME 11:35 ROD NO. 9-19

INDEXED C. J. GALLI DATE NOTES CHKD [illegible] DATE [illegible] 8 '65

F.B. 3740 Pg. 143

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM21-68 TO BM21-67
BM21-68													BM21-68 (USC&GS Y780) Pacific Coast Hwy and Normandie Ave See F.B. 3702-145
1	154	228	455	5	168 140	28	181	167	482	5	195 167	28	T Dinty Moore
BM21-67													BM21-67 (Wilmington A-2) Pacific Coast Hwy and Normandie Ave. see F.B. 3702-145

Summation of Run
From B.M. 21-68
To B.M. 21-67

Total Backsights = + 154.228
Total Foresights = − 181.167
Diff. Elev. = − 26.939

Backsight stadia = 28
Foresight Stadia = 28
Total Stadia = 56 meters

F.B. 3740 PG. 194 JOB NO. 3791.02
SURVEY OF L.A. Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES K. M. Kapp
INDEXED R. J. GALLI DATE

WEATHER Hazy-Windy INST. NO. W-716
TIME 2:45 ROD NO. 9-19
NOTES CHKD [illegible] DATE JAN 8 '65

76P526B CE # 306 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT	BACKSIGHT STADIA	FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT	FORESIGHT STADIA	DESCRIPTION AND REMARKS
									FROM BM21-68 TO BM5-49
BM21-68									BM21-68 (USC&GS Y780) Pacific Coast Hwy & Normandie Ave
1	147	412	448 5	165 129 36	154	959	455 5	172 136 36	
2	138	477	439 5	164 112 52 88	196	785	497 5	222 170 52 88	See F.B. 3702-145
3	137	893	438 5	164 110 54 142	188	967	489 5	216 160 56 144	⊼ Bustrum
4	75	959	376 5	100 50 50 192	175	399	476 5	201 149 52 196	Summation of Run From B.M. 21-68 To B.M. 5-49
5	140	543	441 5	164 116 48 240	152	889	453 5	174 130 44 240	
	640	284			868	999			
BM5-49									BM 5-49 Vermont Ave. & Normandie Ave. See F.B. 3701-123

Total Backsights = + 640.284

Total Foresights = − 868.999

Diff. Elev. = − 228.715

Backsight stadia = 240

Foresight Stadia = 240

Total Stadia = 480 meters

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

SURVEY BY E.E. Brooks

NOTES BY K.M. Kupp DATE 12-3-64

INDEXED C. J. GALLI DATE

WEATHER Overcast INST. NO. 96716

TIME 11:45-12:00 ROD NO. 9-19

NOTES CHKD [illegible] DATE JAN 8 '65

F.B. 3740 PG. 195

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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WEATHER Hazy-Windy INST. NO. 9871C
TIME 2:25-2:40 ROD NO. 2-12
NOTES CHKD [illegible] DATE [illegible]

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA		DESCRIPTION AND REMARKS
													FROM BM 5-49 TO BM 21-68
BM 5-49													BM 5-49
													Vermont Ave. &
1	154	347	455	5	177 131	46	153	564	454	5	176 131	45	Normandie Ave.
													See F.B. 3701-123
2	180	850	481	5	206 154	52 98	85	850	386	5	110 60	50 95	
													T Dirty Moore
3	199	~~2~~ 282	500	5	227 171	56 154	117	178	418	5	145 89	56 151	
4	185	235	486	5	210 160	50 204	142	459	443	5	168 116	52 203	Summation of Run From B.M. 5-49
5	158	525	459	5	176 140	36 240	150	525	451	5	168 132	36 239	To B.M. 21-68
	878	239					649	576					
BM 21-68													BM 21-68 (USC&GS Y780)
													Pacific Coast Hwy. &
													Normandie Ave.
													See F.B. 3702-145

Total Backsights = + 878.239
Total Foresights = − 649.576
Diff. Elev. = + 228.663

Backsight stadia = 240
Foresight Stadia = 239
Total Stadia = 479 Meters

SURVEY OF L.A. Co. Precise Level Net
SURVEY BY E. E. Brooks NOTES K.M. Kapp
INDEXED C. J. GALLI DATE
JOB NO. 0301.02
B. 3740 PG. 196

76P526B CE # 308 8-59

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION	BACKSIGHT						FORESIGHT						DESCRIPTION AND REMARKS
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA		FROM BM 5-49 TO BM 5-50
BM 5-49													BM 5-49
1	183	807	484	5	200 / 166	34	30	895	331	5	47 / 13	34	Normandie Ave & Vermont Ave
2	261	477	562	5	274 / 248	26 / 60	48	539	359	5	71 / 45	26 / 60	See FB 3701-123
3	259	527	560	5	272 / 246	26 / 86	38	584	339	5	52 / 25	27 / 87	π Bustrum
4	250	189	551	5	263 / 237	26 / 112	92	699	393	5	105 / 79	26 / 113	Summation of Run From B.M. 5-49 To B.M. 5-50
5	138	865	439	5	169 / 107	62 / 174	156	637	457	5	188 / 124	64 / 177	
6	155	353	456	5	178 / 132	46 / 220	136	985	437	5	159 / 113	46 / 223	Total Backsights = + 1430.626 Total Foresights = − 631.564 Diff. Elev. = + 799.062
7	181	408	482	5	196 / 166	30 / 250	117	225	418	5	134 / 100	34 / 257	
	1430	626					631	564					Backsight stadia = 250 Foresight Stadia = 257 Total Stadia = 507 meters
BM 5-50													BM 5-50 (USC&GS 2-50 Reset) Anaheim St. at old R.R. Bridge See F.B. 3701-125

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

SURVEY BY E. E. Brooks WEATHER Broken Clouds INST. NO. 2716

NOTES BY E. E. Brooks DATE 3 Dec 1964 TIME 1:10 - 1:40 ROD NO. 910

INDEXED C. J. GALLI DATE NOTES CHKD [illegible] DATE JAN 8 '65

F.B. 3740 Pg. 199

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION	BACKSIGHT						FORESIGHT					
	RIGHT	MIC.	LEFT		STADIA		RIGHT	MIC.	LEFT		STADIA	
BM5-50												
1	418	053	419	5	134 / 102	32	182	136	483	5	198 / 166	32
2	135	520	436	5	158 / 112	46 / 78	151	187	452	5	172 / 130	42 / 74
3	153	938	454	5	186 / 120	66 / 144	138	872	439	5	170 / 106	64 / 138
4	96	276	397	5	109 / 83	26 / 170	260	897	561	5	273 / 247	26 / 164
5	48	235	349	5	61 / 35	26 / 196	259	521	560	5	273 / 245	28 / 192
6	52	552	353	5	65 / 39	26 / 222	258	470	559	5	271 / 245	26 / 218
7	32	169	333	5	49 / 15	34 / 256	185	103	486	5	202 / 168	34 / 252
	636	743					1436	186				
BM 5-49												

DESCRIPTION AND REMARKS

FROM BM5-50 TO BM5-49

BM5-50 (USC&GS Z-50 Reset)
Anaheim St. at old R.R. bridge
see F.B. 3701-125

T Moore

Summation of Run
From B.M. 5-50
To B.M. 5-49

Total Backsights = + 636.743
Total Foresights = −1436.186
Diff. Elev. = −799.443

Backsight stadia = 256
Foresight Stadia = 252
Total Stadia = 508 meters

BM 5-49
Normando Ave and Vermont Ave
see F.B. 3701-123

WEATHER Broken Clouds INST. NO. 96716
TIME 1:45-2:15 ROD NO. 9-19
NOTES CHKD [illegible] DATE [illegible]

F.B. 3740 PG. 198 JOB NO. 0301.02
SURVEY OF LA Co. Precise Level Net
SURVEY BY F. E. Brooks NOTES F. E. Brooks
INDEXED C. J. GALLI DATE

76P526B CE # 308 8-59

PLEASE RETURN TO

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

SURVEY BY

NOTES BY C. J. GALLI DATE 15 Dec 1964 WEATHER clear TIME 9:50 - 10:15 INST. NO. 96716

INDEXED DATE NOTES CHKD [illegible] DATE JAN 8 65 ROD NO. 9-19

F.B. 3740 PG. 198A

STATION	BACKSIGHT RIGHT	BACKSIGHT MIC.	BACKSIGHT LEFT		BACKSIGHT STADIA		FORESIGHT RIGHT	FORESIGHT MIC.	FORESIGHT LEFT		FORESIGHT STADIA	
BM 5-50		Rerun.										
1	124	695	425	5	140 / 108	32	188	878	489	5	204 / 172	32
2	145	341	446	5	168 / 122	46 / 78	160	978	461	5	183 / 137	46 / 78
3	158	068	459	5	189 / 127	62 / 140	143	062	444	5	174 / 112	62 / 140
4	99	477	400	5	112 / 86	26 / 166	255	690	556	5	268 / 242	26 / 166
5	47	238	348	5	60 / 34	26 / 192	266	498	567	5	279 / 253	26 / 192
6	57	159	358	5	70 / 44	26 / 218	239	860	540	5	252 / 226	26 / 218
7	15	405	316	5	32 / 15	172 / 34 / 252	191	727	492	5	208 / 174	34 / 252
	647	383					1446	693				
BM 5-49												

DESCRIPTION AND REMARKS

FROM BM 5-50 TO BM 5-49

BM 5-50 [illegible]
Anaheim St. at old R.R. Bridge
see F.B. 3701-125

π Kapp

Summation of Run
From B.M. 5-50
To B.M. 5-49

Total Backsights = + 647.383
Total Foresights = − 1446.693
Diff. Elev. = −799.310

Backsight stadia = 252
Foresight Stadia = 252
Total Stadia = 504 meters

BM 5-49
Normandie Ave and Vermont Ave
see F.B. 3701-123

P.B. 3740 PG. 188 JOB NO.

SURVEY OF

SURVEY BY NOTES

INDEXED DATE

WEATHER INST. NO.

TIME ROD NO.

NOTES CHKD DATE