

1434

Atlantic St. Extension

POSTS

FIELD BOOK

No. 385

MICROFILMED

DEC 23 1964

Our Leather Bound Engineers Note Books are carried in the following rulings:

No. 380 LEVEL BOOK. Left and Right Hand Page the same as Left Hand Page of this Book.

No. 382 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 4 x 4 to the inch, Center Line Red.

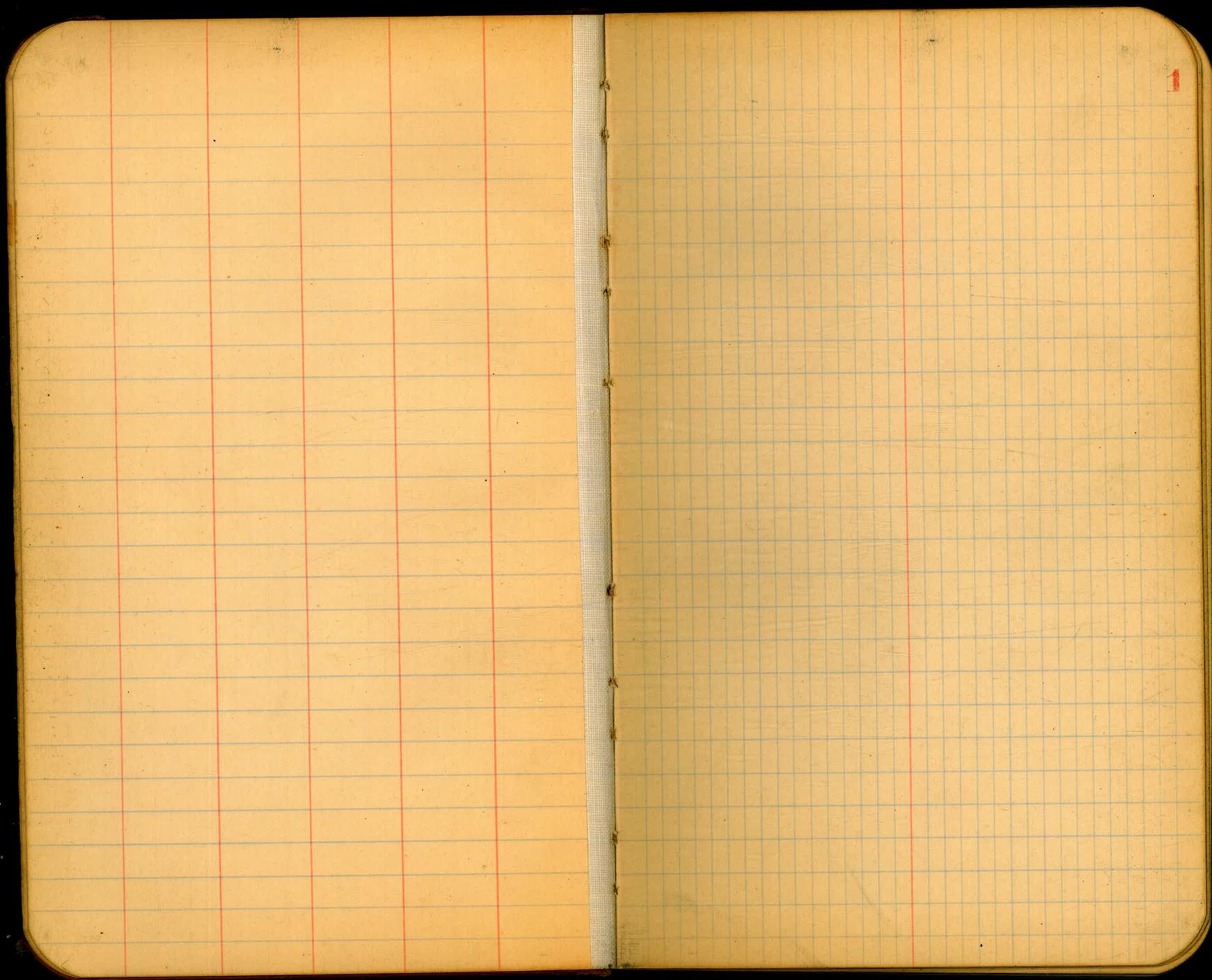
No. 384 MINING TRANSIT BOOK. Left Hand Page as in this Book, Right Hand Page 8x8 to the inch, Center Line Red.

No. 385 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 8 vertical and 4 horizontal lines to the inch, Center Line Red.

We also carry the Note Books listed above, bound in extra strong Fabri-Hide (otherwise the same quality of book), which can be furnished at a somewhat lower price.

In ordering Fabri-Hide covered books, add the letter "F" to catalog number.

THE FREDERICK POST CO.
ENGINEERING and DRAFTING SUPPLIES
IRVING PARK STATION
CHICAGO, ILL.



Proposed Atlantic St

130+9691 P.O.T. - opp 132+0

3

Proposed Atlantic St.

5

148769.35 P.O.T.

143795.42 P.O.T.

148769.35

143795.42

Proposed Atlantic St.



Pr

170 + 2

165 + 81

162 + 2

7

1353

	13.5		
16' PL	87	5.2	✓
60' PL	67	6.8	✓
137+0			
60' PL	55	8.0	✓
16' PL	71	6.0	✓
23' PL	97	5.8	✓
13' PL	71	6.1	✓
9' PL	63	7.2	✓
4	60	7.5	✓
9' L	67	6.8	✓
17' L	86	4.9	✓
23' L	85	5.0	✓
35' L	94	4.1	✓
60' L of Core Map	1042	3.1	✓
137+50			
10' L	93	4.2	✓
38' L	85	5.0	✓
30' L	92	6.3	✓
22' L	82	5.3	✓
14' L	74	6.1	✓
10' L	62	7.3	✓
4	59	7.6	✓
10' PL	60	7.5	✓
28' PL	69	6.6	✓
16' PL	62	7.3	✓
60' PL	43	9.2	✓

1353

9

	13.5		
138+0			
60' PL - Green Tree 12' diam	28	10.7	✓
48' PL	46	8.9	✓
23' PL	53	8.2	✓
11' PL	54	8.1	✓
6' PL	65	7.0	✓
2	57	7.8	✓
6' L	63	7.2	✓
11' L	74	6.1	✓
10' L	66	6.9	✓
22' L	76	5.9	✓
31' L	82	5.3	✓
40' L	75	6.0	✓
60' L	88	6.7	✓
138+50			
60' L	79	5.6	✓
43' L	70	6.5	✓
30' L	75	6.0	✓
24' L	64	7.1	✓
12' L	62	7.3	✓
10' L	70	6.5	✓
4	57	7.8	✓
9' PL	62	7.3	✓
16' PL	48	8.7	✓
22' PL	45	9.0	✓
10' PL	48	8.7	✓

Note:-
40' Core Pl.
Under Post
opp 138+0

13.53

13.5

52 PL	40	9.5	✓
60 PL	20	11.5	✓
138+76 = 19 Syonon Tac 60 PL			
139+0			
60 PL	15	11.0	✓
52 PL	35	10.0	✓
35 PL	41	9.4	✓
23 PL	36	9.9	✓
15 PL	37	9.8	✓
9 PL	55	8.0	✓
5	56	7.9	✓
8 Lt	64	7.1	✓
13 Lt	53	8.2	✓
23 Lt	56	7.9	✓
31 Lt	69	6.6	✓
44 Lt	62	7.2	✓
60 Lt	63	6.7	✓
139+50			
60 Lt	57	7.8	✓
43 Lt	56	8.1	✓
30 Lt	59	7.6	✓
23 Lt	48	8.7	✓
14 Lt	25	10.0	✓
9 Lt	60	7.5	✓
5	55	8.0	✓
9 PL	56	7.9	✓

13.53

13.5

15 PL	37	9.8	✓
23 PL	31	10.4	✓
40 PL	37	9.8	✓
54 PL	23	11.2	✓
60 PL	10	12.5	✓
140+0			
60 PL	00	13.5	✓
53 PL	20	11.5	✓
40 PL	26	10.9	✓
23 PL	20	11.5	✓
20 PL	24	11.1	✓
10 PL	51	8.2	✓
5	53	8.2	✓
10 Lt	60	7.5	✓
15 Lt	21	11.4	✓
23 Lt	34	10.1	✓
32 Lt	43	8.7	✓
43 Lt	42	9.3	✓
60 Lt	47	8.8	✓
140+50			
60 Lt	38	9.7	✓
40 Lt	22	10.3	✓
30 Lt	39	9.6	✓
23 Lt	24	11.1	✓
14 Lt	24	11.1	✓
10 Lt	56	7.9	✓

10

	13.53	13.5		
5		52	8.3	✓
12 Pt		51	8.4	✓
18 Pt		22	11.3	✓
23 Pt		17	11.8	✓
40 Pt		18	11.7	✓
52 Pt		11	14.4	✓
77	474	1681	12.07	
60 Pt		27	14.1	✓
	141+0	16.8		
60 Pt		22	14.6	✓
52 Pt		36	13.2	✓
40 Pt		15	14.3	✓
23 Pt		38	13.0	✓
21 Pt		42	14.6	✓
20 Pt		61	10.7	✓
9 Pt		83	8.5	✓
5		84	8.4	✓
10 Lt		92	7.6	✓
16 Lt		48	12.0	✓
32 Lt		52	11.6	✓
30 Lt		70	9.8	✓
40 Lt		15	10.3	✓
60 Lt		70	9.8	✓
	141-4591 Post			
60 Lt		65	10.3	✓
41 Lt		62	10.6	✓

	16.81	16.8		
23 Lt		69	9.9	✓
23 Lt		53	11.5	✓
13 Lt		52	11.6	✓
10 Lt		90	7.8	✓
5		84	8.1	✓
10 Pt		82	8.6	✓
19 Pt		44	14.4	✓
23 Pt		39	12.9	✓
40 Pt		42	14.6	✓
54 Pt		33	13.5	✓
60 Pt		22	14.6	✓
	142+0			
60 Pt		22	14.6	✓
52 Pt		34	13.2	✓
40 Pt		40	12.8	✓
32 Pt		39	12.9	✓
17 Pt		46	12.2	✓
11 Pt		78	9.0	✓
6 Pt		88	8.0	✓
5		83	8.5	✓
10 Lt		89	8.1	✓
14 Lt		19	11.9	✓
32 Lt		55	11.3	✓
30 Lt		68	10.0	✓
39 Lt		63	10.5	✓
50 Lt		69	10.1	✓

16.8

142+50

76.8

60 Lt	67	10.1	✓
10 Lt	65	10.3	✓
25 Lt	70	9.8	✓
22 Lt	56	11.2	✓
14 Lt	51	11.7	✓
10 Lt	84	8.2	✓
7	83	8.5	✓
6 Pt	89	8.1	✓
13 Pt	75	9.3	✓
19 Pt	46	12.2	✓
23 Pt	46	12.2	✓
25 Pt	44	12.2	✓
53 Pt	27	13.1	✓
60 Pt	22	14.1	✓
143+0			
60 Pt	30	13.8	✓
50 Pt	41	12.7	✓
36 Pt	46	12.2	✓
23 Pt	46	12.2	✓
18 Pt	47	12.1	✓
18 Pt	71	9.4	✓
6 Pt	86	8.2	✓
2	83	8.5	✓
11 Lt	85	8.3	✓
15 Lt	55	11.3	✓

16.8

16.8

12

23 Lt	65	10.3	✓
28 Lt	75	9.3	✓
40 Lt	68	10.0	✓
60 Lt	75	9.3	✓
143+50			
60 Lt	78	9.0	✓
40 Lt	73	9.5	✓
27 Lt	78	9.0	✓
23 Lt	66	10.2	✓
16 Lt	63	10.5	✓
12 Lt	85	8.3	✓
2	82	8.6	✓
6 Pt	86	8.2	✓
13 Pt	73	9.5	✓
17 Pt	53	11.5	✓
22 Pt	49	11.9	✓
35 Pt	49	11.9	✓
50 Pt	45	12.3	✓
60 Pt	33	13.5	✓
144+0			
60 Pt	41	12.7	✓
48 Pt	52	11.5	✓
35 Pt	55	11.3	✓
23 Pt	52	11.6	✓
18 Pt	56	11.2	✓
11 Pt	78	9.0	✓

	1681			
		<u>168</u>		
6.91		86	8.2	✓
8		81	8.7	✓
12.11		83	8.5	✓
16.11		71	9.7	✓
23.11		73	9.5	✓
28.11		81	8.4	✓
11.11		79	8.9	✓
6.11		84	8.4	✓
	14150			
6.11		90	7.8	✓
12.11		81	8.7	✓
28.11		87	8.1	✓
23.11		75	9.3	✓
7.11		72	9.4	✓
12.11		84	8.4	✓
8		82	8.6	✓
13.11		80	8.8	✓
18.11		60	10.8	✓
23.11		57	11.1	✓
38.11		61	10.7	✓
5.11.11		55	11.3	✓
6.11		17	12.1	✓
	14520			
6.11		50	11.8	✓
5.11.11		56	11.2	✓
4.11.11		59	10.9	✓

16.8

23.91	64	10.1	✓
11.91	67	10.1	✓
12.91	79	8.9	✓
13.91	79	8.9	✓
23.91	80	8.8	✓
29.91	77	9.1	✓
29.91	91	7.7	✓
41.91	84	8.1	✓
60.91	89	7.9	✓
60.91	91	7.1	✓
40.91	89	7.9	✓
27.91	92	7.4	✓
23.91	81	8.7	✓
11.91	83	8.5	✓
12.91	80	8.8	✓
18.91	74	9.1	✓
16.91	68	10.0	✓
23.91	66	10.2	✓
40.91	66	10.2	✓
60.91	60	10.8	✓
60.91	64	10.4	✓
40.91	68	10.0	✓
23.91	69	9.9	✓
10.91	78	9.0	✓

146+50

142+0

16.8

80	8.8	✓	
87	8.1	✓	
28.91	95	7.3	✓
10.91	92	7.6	✓
10.91	99	6.9	✓
60.91	102	6.6	✓
10.91	96	7.2	✓
23.91	92	7.6	✓
11.91	89	7.9	✓
11.91	81	8.7	✓
11.91	80	8.8	✓
15.91	72	9.5	✓
23.91	70	9.8	✓
10.91	72	9.6	✓
60.91	66	10.2	✓
60.91	67	10.1	✓
10.91	74	9.1	✓
23.91	72	9.1	✓
10.91	80	8.8	✓
10.91	84	8.1	✓
15.91	96	7.2	✓
23.91	99	6.9	✓
10.91	99	6.9	✓
60.91	102	5.9	✓

147+50

148+0

12-30-31

1442

12.4	6.1	✓
8.3	6.1	✓
8.2	8.3	✓
6.1	9.3	✓
5.1	9.0	✓
5.4	6.2	✓
8.2	7.6	✓
6.8	8.0	✓
6.1	8.8	✓
5.6	9.1	✓
5.8	9.2	✓
5.2	9.2	✓
5.0	8.2	✓
6.0	8.4	✓
6.0	8.4	✓
6.0	8.4	✓
5.2	9.1	✓
5.3	9.1	✓
4.9	9.5	✓
6.1	8.3	✓
8.8	5.6	✓
9.5	4.9	✓

150+0

10.4
23.4
15.4
2
7.4
10.4
16.4
23.4
40.4
60.4
85.4
60.4
40.4
23.4
12.4
9.4
2
11.4
23.4
32.4
60.4

Cont. Page 19

16.81

BP No. 9
15.8
17.8+7.5
10.15

Use 10.15 For
Profile 1.811

TP	4.23	14.42	6.62	10.19	
		148+50	12.4		
60.4			9.4	5.0	✓
45.4			8.1	6.3	✓
23.4			8.0	6.4	✓
16.4			7.7	6.7	✓
10.4			6.3	8.1	✓
2			5.8	8.6	✓
8.4			5.9	8.5	✓
23.4			5.6	8.8	✓
40.4			5.5	8.9	✓
60.4			4.5	9.9	✓
		149+0			
60.4			5.2	9.2	✓
40.4			5.8	8.6	✓
23.4			5.8	8.6	✓
20.4			6.4	8.0	✓
16.4			1.9	7.5	✓
9.4			5.8	8.6	✓
2			5.4	9.0	✓
7.4			5.6	8.8	✓
23.4			8.3	6.1	✓
40.4			8.4	6.0	✓
60.4			9.4	5.0	✓
		149+50 - Proposed Culvert			
60.4			9.1	5.3	✓

Postroad St Cross Section
From East Line Grand Ave to

See Sketch Page 14

BM	10.98	2.17	10.19
	East Line Grand		
H	21.2	9.6	11.6 ✓
Cb	10.2		11.0 ✓
1/4	10.6		11.2 ✓
1/2 = Stream Bed	10.0		11.2 ✓
50' E of E.L. Grand on N			
1/2	77		13.5 ✓
710	79		13.3 ✓
1/4 = Stream Bed	85		12.7 ✓
+3	75		13.7 ✓
Cb	75		13.7 ✓
H	78		13.4 ✓
100' E			
H	62		15.0 ✓
Cb	62		15.0 ✓
1/4	62		15.0 ✓
72 = Stream Bed	69		14.3 ✓
74	64		14.8 ✓
1/2	62		15.0 ✓
150' E			
1/2	50		16.2 ✓
1/4	54		15.8 ✓
+8	57		15.5 ✓
Cb	49		16.3 ✓

35' Mid
10' Cb
135' H
B.P. No. 2
L.S. H
148+75

Use 10.15
For Profile
BM

	2.17	21.2	16.3	✓
	49			
	200' E			
H		34	17.8	✓
Cb		37	17.5	✓
1/4 = Stream Bed		41	17.1	✓
1/4		39	17.3	✓
1/2		37	17.5	✓
243' E = 116' Stephens				
1/2 = Stream Bed		24	18.8	✓
1/4		22	18.9	✓
Cb		23	18.9	✓
H		23	18.9	✓
25' E = 1/2 Stephens				
H		12	19.9	✓
Cb		14	19.8	✓
1/4		13	19.9	✓
1/4 = Stream Bed		18	19.4	✓
1/2		16	14.6	✓
70	9.50	29.89	0.78	20.39
E.L. Stephens				
		29.9		
1/2		92	20.7	✓
1/4		91	20.5	✓
Cb		93	20.6	✓
H		88	21.1	✓
78 = Stream Bed		93	20.6	✓

29.89

50' E of E-L Steppes

-45 - Stream Bed	<u>29.9</u> 71	27.8	✓
H	73	27.6	✓
cb	77	27.7	✓
1/4	77	27.2	✓
1/2	76	27.3	✓

100' E of EL Steppes

1/2	59	24.0	✓
1/4	63	23.6	✓
cb	58	24.1	✓
H	55	24.2	✓
+54 - Stream Bed	56	24.3	✓

150' E

-55 - Stream Bed	48	25.1	✓
-50 - Top Bank	40	25.9	✓
H	38	26.1	✓
cb	38	26.1	✓
1/4	39	26.0	✓
1/2	38	26.1	✓

TP 11.06 40.51 0.44 29.45

200' E

	<u>40.5</u>		
1/2	10.4	30.1	✓
1/4	11.1	29.4	✓
cb	11.1	29.4	✓
H	11.6	28.9	✓
+44	11.3	29.7	✓

+50 - Stream Bed

	<u>40.5</u> 13.9	26.6	✓
	33.5		
-55 - Stream Bed	13.5	27.0	✓
-50 - Top Bank	9.5	31.0	✓
H	9.6	30.9	✓
cb	9.5	31.0	✓
1/4	9.3	31.2	✓
1/2	8.7	31.8	✓
	37.0		
1/2	7.9	35.6	✓
1/4	6.9	33.8	✓
cb	7.4	33.1	✓
H	7.1	34.9	✓
+44 - Top Bank	7.9	32.6	✓
+50 - Stream Bed	11.9	28.6	✓

341' E

59' N of N.L. Rosewood = 1/4 E of
35' E of Rosewood
Order Santa Fe RR

5.54

200' E of 100'

1442 B Ford Page 16

150+50

14.4

60 Lt	94	5.0	✓
43 Lt	86	5.8	✓
36 Lt	58	8.6	✓
23 Lt Top old Road Bld	49	9.5	✓
1/2	51	9.3	✓
10' Pt	58	8.6	✓
23' Pt	53	8.6	✓
47' Pt	59	8.5	✓
60' Pt	48	9.6	✓

150+90

60' Pt	49	9.5	✓
45' Pt	60	8.4	✓
23' Pt	58	8.6	✓
1/2	51	9.3	✓
10' Lt	65	7.9	✓
15' Lt	54	9.0	✓
23' Lt Top Road Bld	53	9.1	✓
42' Lt	61	8.3	✓
50' Lt	87	5.7	✓
60' Lt	91	5.3	✓

151+10

60' Lt	88	5.6	✓
50' Lt	86	5.8	✓
45' Lt	65	7.9	✓

14.4

32' Lt - Top old P.B.	48	9.6	✓
23' Lt	53	9.1	✓
18' Lt	54	9.0	✓
14' Lt	72	7.1	✓
10' Lt	73	7.1	✓
6' Lt	58	8.6	✓
1/2	50	9.4	✓
22' Pt	57	8.7	✓
46' Pt	60	8.4	✓
60' Pt	48	9.6	✓

151+50

60' Pt	51	9.3	✓
43' Pt	57	8.7	✓
23' Pt	56	8.8	✓
1/2	49	9.5	✓
6' Lt	58	8.6	✓
10' Lt	74	7.0	✓
15' Lt	80	6.4	✓
20' Lt	75	6.9	✓
25' Lt	57	8.7	✓
40' Lt - Top Road Bld	50	9.4	✓
60' Lt	80	6.4	✓

151+75

60' Lt	68	7.6	✓
15' Lt - Top P.B.	50	9.4	✓
32' Lt	55	8.9	✓

1442

	14.4		
23 Lt	79	6.5	✓
15 Lt	80	6.4	✓
10 Lt	74	7.0	✓
8 Lt	59	8.5	✓
2	50	9.4	✓
23 Rt	55	8.9	✓
40 Rt	57	8.7	✓
60 Rt	48	9.6	✓

152+0

60 Rt	51	9.3	✓
40 Rt	57	8.7	✓
23 Rt	56	8.8	✓
2	49	9.5	✓
7 Lt	57	8.7	✓
10 Lt	74	7.0	✓
18 Lt	76	6.8	✓
23 Lt	64	8.0	✓
30 Lt	50	9.4	✓
47 Lt Top Old Road Bed	47	9.7	✓
60 Lt	61	8.3	✓

152+50

60 Lt = Top Old R.B.	55	8.9	✓
49 Lt	54	9.0	✓
44 Lt	67	7.7	✓
23 Lt	61	8.3	✓
19 Lt	62	8.2	✓

1442

20

	14.4		
11 Lt	71	7.3	✓
8 Lt	59	8.5	✓
2	18	9.6	✓
23 Rt	53	9.1	✓
13 Rt	56	8.8	✓
60 Rt	47	9.7	✓

153+0

60 Rt	46	9.8	✓
51 Rt	53	9.1	✓
33 Rt	53	9.1	✓
23 Rt	52	9.2	✓
2	47	9.7	✓
7 Lt	53	9.1	✓
13 Lt	69	7.5	✓
23 Lt	69	7.5	✓
40 Lt	73	7.1	✓
60 Lt	77	6.7	✓

153+50

60 Lt	77	6.7	✓
40 Lt	74	7.0	✓
23 Lt	74	7.0	✓
13 Lt	64	8.0	✓
2 Lt	52	9.2	✓
2	46	9.8	✓
23 Rt	52	9.1	✓
40 Rt	51	9.3	✓

14.42

	<u>14.42</u>	
54 PL	51	9.3 ✓
60 PL	44	10.0 ✓
154+40		
60 PL	48	9.6 ✓
40 PL	50	9.4 ✓
23 PL	51	9.3 ✓
2	47	9.7 ✓
7 L	51	9.3 ✓
14 L	72	7.2 ✓
23 L	80	6.4 ✓
40 L	78	6.6 ✓
60 L	79	6.5 ✓
154+50		
60 L	79	6.5 ✓
40 L	81	6.3 ✓
23 L	78	6.6 ✓
18 L	70	7.2 ✓
7 L	51	9.3 ✓
2	46	9.8 ✓
23 PL	51	9.3 ✓
40 PL	48	9.6 ✓
60 PL	42	10.2 ✓
154+62		
60 PL	44	10.0 ✓
40 PL	50	9.4 ✓
23 PL	60	8.4 ✓

14.42

	<u>14.42</u>	
11 PL	62	8.2 ✓
6 PL	49	9.5 ✓
2	45	9.9 ✓
6 L	51	9.3 ✓
13 L	72	7.2 ✓
23 L	78	6.6 ✓
40 L	81	6.3 ✓
60 L	78	6.6 ✓
154+63		
60 L	78	6.6 ✓
40 L	81	6.3 ✓
23 L	76	6.8 ✓
2	69	7.5 ✓
10 PL	73	7.1 ✓
23 PL	56	8.8 ✓
40 PL	48	9.6 ✓
60 PL	44	10.0 ✓
154+67 - Proposed Cal work ✓		
60 PL	44	10.0 ✓
40 PL	48	9.6 ✓
23 PL	56	8.8 ✓
10 PL	73	7.1 ✓
2	69	7.5 ✓
23 L	76	6.8 ✓
40 L	81	6.3 ✓
60 L	78	6.6 ✓

21

14.42

154468

No. 1

60 Lt	79	6.5	✓
40 Lt	81	6.3	✓
23 Lt	77	6.7	✓
12 Lt	71	7.3	✓
6 Lt	50	9.2	✓
1/2	47	9.7	✓
6 Pt	18	9.6	✓
12 Pt	65	7.9	✓
23 Pt	56	8.8	✓
40 Pt	50	9.2	✓
60 Pt	13	10.1	✓

15570

60 Pt	41	10.3	✓
40 Pt	50	9.2	✓
23 Pt	50	9.2	✓
12 Pt	56	8.8	✓
6 Pt	18	9.6	✓
1/2	42	10.2	✓
7 Lt	50	9.2	✓
12 Lt	76	6.8	✓
23 Lt	79	6.5	✓
40 Lt	82	6.2	✓
60 Lt	78	6.6	✓

155750

60 Lt	82	6.2	✓
-------	----	-----	---

14.43

22

No. 1

46 Lt	84	6.0	✓
23 Lt	80	6.2	✓
12 Lt	77	6.7	✓
6 Lt	16	9.8	✓
1/2	40	10.2	✓
6 Pt	15	9.9	✓
12 Pt	52	9.2	✓
23 Pt	51	9.3	✓
40 Pt	50	9.4	✓
60 Pt	44	10.0	✓

15670

60 Pt	47	9.7	✓
40 Pt	52	9.2	✓
23 Pt	52	9.2	✓
12 Pt	54	9.0	✓
6 Pt	13	10.1	✓
1/2	38	10.6	✓
6 Lt	47	9.7	✓
12 Lt	78	6.6	✓
23 Lt	83	6.1	✓
40 Lt	87	5.7	✓
60 Lt	87	5.7	✓

156750

60 Lt	89	5.5	✓
40 Lt	86	5.8	✓
23 Lt	82	6.1	✓

1442

14.4

14.6	81	6.3	✓
7.4	18	9.6	✓
8	37	10.7	✓
7.9	44	10.0	✓
12.9	56	8.8	✓
23.9	52	9.4	✓
40.9	51	9.3	✓
60.9	48	9.6	✓

157+0 = Prop. Control ✓

60.9	49	9.5	✓
40.9	51	9.3	✓
23.9	51	9.3	✓
19.9	58	8.6	✓
11.9	54	9.0	✓
7.9	41	10.3	✓
8	34	11.0	✓
7.4	44	10.0	✓
14.4	81	6.3	✓
23.6	83	6.1	✓
40.4	88	5.6	✓
60.4	87	5.7	✓
70.4	97	4.7	✓

157+50

60.4	89	5.5	✓
40.4	88	5.6	✓
23.4	84	6.0	✓

1442

14.4

12.6	79	6.5	✓	
7.6	41	10.3	✓	
8	33	11.1	✓	
7.9	40	10.2	✓	
11.9	55	8.9	✓	
23.9	48	9.6	✓	
40.9	47	9.7	✓	
60.9 = Power Pol. ✓	43	10.1	✓	
7.6	7.06	16.75	4.74	9.68

158+0

60.9	16.8	6.7	10.1	✓
40.9	6.9	10.0	✓	
23.9	7.8	9.0	✓	
12.9	8.7	8.1	✓	
7.9	6.4	10.7	✓	
8	5.3	11.5	✓	
7.4	6.4	10.4	✓	
13.4	9.8	7.0	✓	
23.4	10.3	6.5	✓	
40.4	10.7	6.1	✓	
60.4	10.9	5.9	✓	
15.4	13.1	3.7	✓	
60.4	11.1	5.7	✓	
40.4	10.4	6.4	✓	
23.4	9.9	6.9	✓	
12.4	9.6	7.4	✓	

158+50

07 Mon
3.5 Cor.
Gravit
Geobirch157+83
still - Prop. ✓
14.4

23

1675

	<u>16.8</u>		
6.11	6.0	10.8	✓
2	5.1	11.7 11.2	✓
7.11	6.0	10.5	✓
11.11	9.3	9.5	✓
23.11	7.5	9.3	✓
40.11	7.1	9.7	✓
60.11	7.0	9.8	✓

15940

60.11	6.8	10.0	✓
40.11	7.2	9.6	✓
23.11	6.8	10.0	✓
11.11	6.9	9.9	✓
1.11	5.1	11.1	✓
2	4.9	11.9	✓
6.11	6.0	10.8	✓
14.11	9.6	7.2	✓
23.11	10.1	6.1	✓
40.11	10.1	6.2	✓
51.11 = Paper Pel			✓
60.11	10.8	6.0	✓
70.11	12.1	4.4	✓

159450

70.11	11.8	5.0	✓
60.11	10.5	6.3	✓
40.11	10.5	6.3	✓
28.11	10.3	6.5	✓

1675

24

	<u>16.8</u>		
23.11	8.8	8.0	✓
14.11	9.5	7.3	✓
7.11	5.5	11.3	✓
2	4.7	11.1	✓
7.11	5.4	11.4	✓
11.11	6.7	10.1	✓
23.11	5.8	11.0	✓
30.11	7.6	9.8	✓
40.11	6.9	9.9	✓
60.11	6.8	10.0	✓

16040

60.11	6.7	10.1	✓
40.11	6.8	10.0	✓
30.11	7.0	9.8	✓
23.11	6.2	10.6	✓
10.11	6.4	10.1	✓
6.11	5.2	11.6	✓
2	4.6	12.1	✓
7.11	5.4	11.4	✓
14.11	9.4	7.4	✓
23.11	9.0	7.8	✓
30.11	10.1	6.7	✓
40.11	10.3	6.5	✓
60.11	10.1	6.7	✓
70.11	11.4	5.1	✓

1675
160+2810-80 16.8

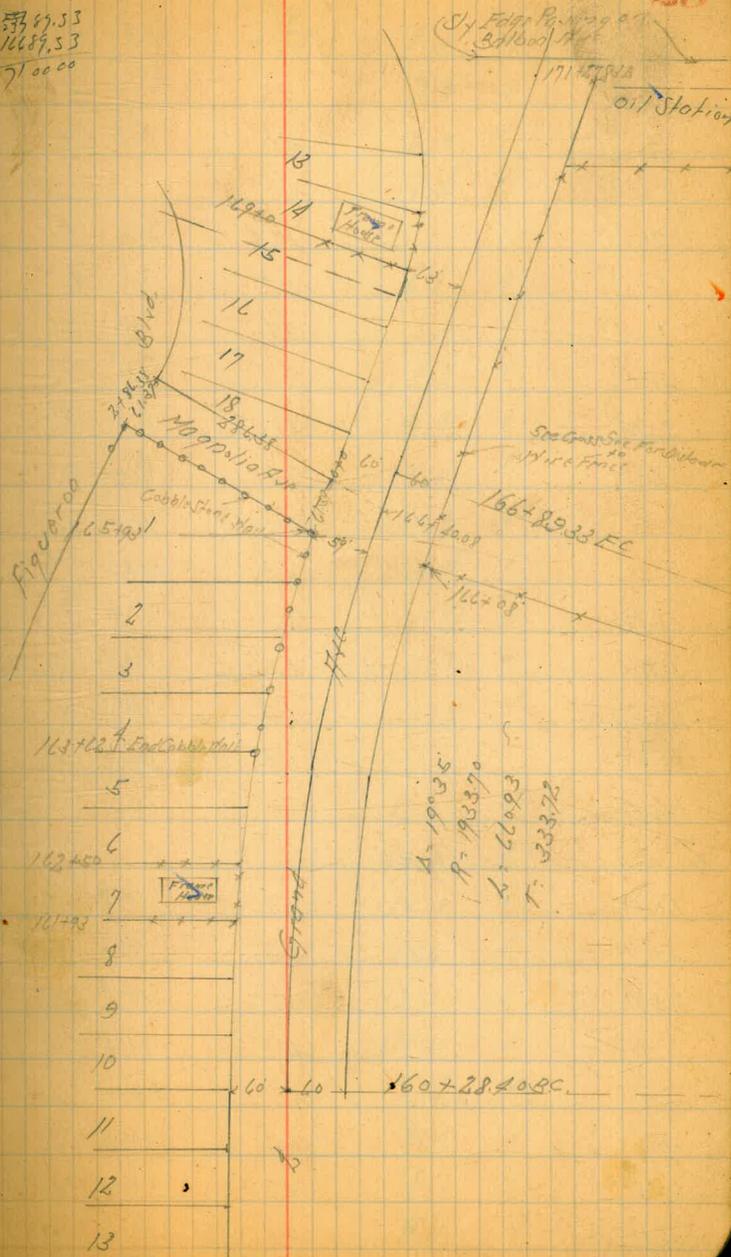
70 Lt	110	5.8	✓
60 Lt	98	7.0	✓
51 Lt: Pox P. P. 10			
40 Lt	101	6.7	✓
28 Lt	100	6.8	✓
23 Lt	88	8.0	✓
13 Lt	91	7.7	✓
6 Lt	53	11.5	✓

1 of Hub	115	12.10	
6 Pt	53	11.5	✓
12 Pt	64	10.4	✓
23 Pt	60	10.8	✓
30 Pt	69	9.9	✓
40 Pt	68	10.0	✓
60 Pt	66	10.4	✓

160+150

60 Pt	66	10.4	✓
40 Pt	66	10.4	✓
23 Pt	62	10.6	✓
15 Pt	62	10.6	✓
8 Pt	52	11.6	✓
1 of	46	12.4	✓
8 Lt	53	11.5	✓
15 Lt	89	9.9	✓
23 Lt	90	7.8	✓

5369.53
1689.53
7100.00



	16.75	16.8	
60 Lt		100	6.8 ✓
60 Lt		96	7.2 ✓
70 Lt		110	5.8 ✓
	161+0		
70 Lt		103	6.5 ✓
60 Lt		92	7.6 ✓
40 Lt		97	7.1 ✓
30 Lt		93	7.5 ✓
23 Lt		80	8.8 ✓
15 Lt		74	9.2 ✓
11 Lt		50	11.8 ✓
8		43	14.5 ✓
8 Pt		52	11.6 ✓
11 Pt		40	10.8 ✓
23 Pt		63	10.5 ✓
40 Pt		64	10.2 ✓
60 Pt		63	10.5 ✓
	161+50		
60 Pt		59	10.9 ✓
40 Pt		62	10.6 ✓
23 Pt		59	10.9 ✓
11 Pt		52	11.5 ✓
7 Pt		46	12.2 ✓
8		42	12.6 ✓
15 Lt		47	12.1 ✓
23 Lt		74	9.4 ✓

161+42
Point
51 Lt ✓

	16.75	16.8	
30 Lt		88	8.0 ✓
50 Lt		92	7.6 ✓
60 Lt		86	8.2 ✓
70 Lt		92	7.5 ✓
	162+0		
60 Lt		82	8.5 ✓
40 Lt		86	8.2 ✓
25 Lt		82	8.6 ✓
23 Lt		68	10.0 ✓
15 Lt		43	12.5 ✓
8		39	12.9 ✓
8 Pt		40	14.8 ✓
23 Pt		51	11.7 ✓
40 Pt		55	11.3 ✓
60 Pt		53	11.5 ✓
	162+50		
60 Pt		38	13.0 ✓
40 Pt		48	12.0 ✓
23 Pt		48	12.0 ✓
7 Pt		42	12.6 ✓
8		37	13.1 ✓
20 Lt		42	12.6 ✓
23 Lt		52	11.5 ✓
29 Lt		76	9.2 ✓
40 Lt		81	8.7 ✓
60 Lt		77	9.1 ✓

162+53
Point
51 Lt ✓

16.75

	16.3+0	16.8		
60 Lt		6.8	10.0	✓
40 Lt		7.6	9.4	✓
38 Lt		7.3	9.5	✓
23 Lt		5.8	11.0	✓
19 Lt		3.8	13.0	✓
7		3.3	13.5	✓
23 Pt		4.3	12.5	✓
40 Pt		4.1	12.7	✓
53 Pt		3.9	13.1	✓
60 Pt		1.5	15.3	✓

16.3+50

60 Pt	1.5	15.3	✓
40 Pt	3.3	13.6	✓
23 Pt	3.8	13.0	✓
7	3.3	13.5	✓
23 Lt	2.4	13.4	✓
36 Lt	6.8	10.0	✓
50 Lt	7.0	9.8	✓
60 Lt	6.5	10.3	✓

16.3+65
Pony Pt
51 Lt ✓

16.4+0

60 Lt	5.9	10.9	✓
59 Lt - Cobble Stone Ball ✓			
50 Lt	6.9	9.9	✓
38 Lt	1.5	10.3	✓
21 Lt	3.0	13.8	✓

16.75

	16.8		
20	13.8	✓	
31	13.7	✓	
31	13.7	✓	
30	13.8	✓	
18	15.0	✓	
TP	5.67	19.34	3.08
60 Pt	1.8	17.5	✓

16.4+50

	19.3		
60 Pt	1.9	17.4	✓
55 Pt	5.0	14.3	✓
40 Pt	5.4	13.9	✓
23 Pt	5.3	14.0	✓
7	5.6	13.7	✓
23 Lt	5.6	13.7	✓
26 Lt	8.2	11.1	✓
48 Lt	8.5	10.8	✓
51.5 Lt - Rock Wall ✓			
60 Lt	8.1	11.2	✓

16.5+0

60 Lt	7.7	11.6	✓
56 Lt - Rock Wall ✓			
47 Lt	8.1	11.2	✓
30 Lt	7.9	11.4	✓
33 Lt	6.0	13.3	✓
7	5.3	14.0	✓
23 Pt	5.3	14.0	✓

16.4+70 =
Pony Pt
51 Lt ✓

1934

	19.3		
40 RT	5.4	13.9	✓
56 RT	5.0	14.3	✓
60 RT	3.4	15.9	✓

165450

60 RT	2.5	15.8	✓
56 RT	4.8	14.5	✓
40 RT	5.2	14.1	✓
23 RT	4.8	14.5	✓
2	5.1	14.4	✓
23 Lt	5.7	13.6	✓
35 Lt	7.1	12.7	✓
48 Lt	7.1	11.9	✓

57 Lt - Rock Wall ✓

60 Lt	7.2	12.1	✓
-------	-----	------	---

16640

60 Lt	6.2	13.0	✓
40 Lt	5.9	13.2	✓
23 Lt	5.4	13.9	✓
2	4.7	14.6	✓
23 RT	4.4	14.9	✓
40 RT	4.9	14.4	✓
57 RT	4.6	14.7	✓
60 RT	3.7	15.6	✓

166450

60 RT	2.9	16.4	✓
56 RT	3.9	15.4	✓

165492
Pony Hill
57 Lt ✓

1934

	19.3		
40 RT	4.5	14.8	✓
26 RT	4.2	15.0	✓
2	4.6	14.7	✓
23 Lt	5.2	13.5	✓
47 Lt	6.1	13.4	✓
50 Lt	5.6	13.7	✓
60 Lt	5.4	13.9	✓

16648933 EC

60 Lt	5.1	14.4	✓
49 Lt	5.3	14.0	✓
46 Lt	5.8	13.5	✓
23 Lt	4.7	14.6	✓
19 Lt	4.3	15.0	✓

2 072 Hus

23 RT	4.6	14.8	✓
39	3.9	15.4	✓
40 RT	4.4	14.9	✓
52 RT	3.8	15.5	✓

58 RT - Hill Fence ✓

60 RT	2.6	16.7	✓
-------	-----	------	---

167450

60 RT	2.2	17.1	✓
54 RT - Hill Fence ✓	3.1	16.2	✓
40 RT	3.8	15.5	✓
23 RT	3.7	15.6	✓
10 RT	3.2	16.1	✓
2	4.1	15.2	✓

H 256P3
1662

	1934	193		
20 Lt		38	15.5	✓
23 Lt		43	15.0	✓
40 Lt		48	14.5	✓
47 Lt		50	14.3	✓
50 Lt		45	14.8	✓
60 Lt		43	15.0	✓
	168+0			
60 Lt		40	15.3	✓
50 Lt		43	15.0	✓
47 Lt		48	14.5	✓
35 Lt		44	14.9	✓
23 Lt		41	15.2	✓
20 Lt		35	15.8	✓
8 Lt		33	16.0	✓
1/2		41	15.2	✓
8 Pt		30	16.3	✓
23 Pt		33	16.0	✓
40 Pt		24	15.9	✓
48 Pt		32	16.1	✓
52 Pt = Fenced				
60 Pt		17	17.6	✓
	168+50			
60 Pt		13	18.0	✓
49.5 Pt - Fenced ✓				
48 Pt		23	17.0	✓
40 Pt		32	16.1	✓

	1934	193		
23 Pt		33	16.0	✓
6 Pt		35	15.8	✓
1/2		41	15.2	✓
6 Lt		35	15.8	✓
20 Lt		35	15.8	✓
23 Lt		37	15.6	✓
10 Lt		42	15.1	✓
18 Lt		46	14.7	✓
51 Lt		38	15.5	✓
60 Lt		42	15.1	✓
	169+0			
60 Lt		36	15.7	✓
53 Lt		39	15.4	✓
51 Lt		44	14.9	✓
40 Lt		40	15.3	✓
26 Lt		33	16.0	✓
22 Lt		28	16.5	✓
1/2		34	15.9	✓
23 Pt		27	16.6	✓
42 Pt		27	16.6	✓
46 Pt - Fenced ✓		24	18.9	✓
60 Pt		00	19.3	✓
TR	614	2317	2.31	17.03
	169+50			
60 Pt		38	19.4	✓
44 Pt - Fenced ✓		38	19.4	✓

	23.2		
39' Pt	6.0	17.2	✓
23' Pt	6.2	17.0	✓
‡	6.9	16.3	✓ 16.9 + 80 ✓
12' Lt	7.7	15.5	✓ 500' Pt ✓ 31' Lt
23' Lt	7.0	16.4	✓
32' Lt	1.6	16.6	✓
37' Lt	7.3	15.9	✓
45' Lt	7.8	15.2	✓
60' Lt	7.6	15.6	✓
170 + 0			
60' Lt	7.6	15.6	✓
51' Lt	7.3	15.9	✓
50' Lt	6.4	16.8	✓
23' Lt	7.1	15.8	✓ 170 + 70 ✓
10' Lt	7.1	16.1	✓ 100' Pt ✓
‡	5.1	18.1	✓
26' Pt	5.5	17.7	✓
41' Pt = Fence	3.7	19.5	✓
61' Pt = 1/2 Garage Concrete Floor ✓	2.1	20.0	✓
170 + 50			
60' Pt	3.5	19.7	✓ 170 + 60 ✓
40' Pt	4.3	18.9	✓ 50' Lt ✓
23' Pt	4.8	18.4	✓
‡	5.5	17.7	✓
23' Lt	7.0	16.2	✓
40' Lt	6.9	16.3	✓

	23.2		
60' Lt	7.2	16.0	✓
170 + 85 = 5' x 5' Garage Electric	4.9		✓
171 + 0			
60' Lt	6.8	16.4	✓
40' Lt	6.5	16.7	✓
23' Lt	5.8	17.4	✓ 170 + 90 = Tape Pt ✓ 21' Pt ✓
‡	5.1	18.1	✓
23' Pt	4.3	18.9	✓
40' Pt	3.5	19.7	✓
566' Pt = 1/2 Garage Concrete Floor	3.2	20.0	✓
Tape Pt	2.5	20.6	✓
60' Pt	3.1	20.1	✓
171 + 27.82 = Δ on B. Section			
60' Pt	2.8	20.2	✓
40' Pt	3.5	19.7	✓
23' Pt	3.9	19.3	✓
‡ on Hub	5.3	17.8	✓
23' Lt	5.2	18.0	✓
40' Lt	5.6	17.6	✓
60' Lt	6.3	16.9	✓
171 + 63.83 = Sky Edge Pt. on Section Parallel to Parking			
30' Lt	5.9	18.0	✓
‡	4.5	18.6	✓
30' Lt	3.9	19.2	✓

Bank
23.5 Pt
173°

171 + 56 =
Light Pole +
27' Pt
Hook Pole
18' Lt.
500' Pt
30' Lt

Magnolia Ave Cross Section

W.L. Grand to E.L. Figueroa Blvd.

See Sketch Page 25

Corridor
100' wide
10' high

to Hub
1666893355

12-5-83 31

BM	295	17.58	14.63	
W.L. Grand Ave				
S		17.6	13.1	✓
+3 = Cobble Stone Wall		4.5	13.1	✓
cb		4.4	13.2	✓
1/4		4.4	13.2	✓
1/2		4.3	13.3	✓
1/4		4.4	13.2	✓
cb		4.4	13.2	✓
H		3.7	13.9	✓
50' N of W.L. Grand on North				
H		4.3	13.3	✓
cb		4.5	13.1	✓
+3		5.0	12.6	✓
1/4		4.6	13.0	✓
1/2		4.7	12.9	✓
1/4		4.9	12.7	✓
+9		5.2	12.6	✓
cb		4.7	12.9	✓
+8 = Cobble Wall		4.4	13.2	✓
S		5.0	12.6	✓
100' N				
S		4.8	12.8	✓
+2 = Cobble Wall		4.9	12.7	✓
cb		5.0	12.6	✓

	17.58	17.6	12.0	✓
		5.1	12.2	✓
		5.2	12.4	✓
		5.1	12.5	✓
		5.1	12.2	✓
		5.0	12.6	✓
		4.9	12.9	✓
150' N				
		5.1	12.5	✓
		5.1	12.2	✓
		5.8	11.8	✓
		5.1	12.0	✓
		5.1	12.2	✓
		5.8	11.8	✓
		5.8	11.8	✓
		5.5	12.1	✓
		5.2	12.6	✓
		5.0	12.6	✓
200' N				
		3.7	13.9	✓
		3.8	13.8	✓
		5.1	12.2	✓
		6.2	11.4	✓
		6.1	11.2	✓
		6.3	11.3	✓
		5.9	11.7	✓

	1758	17.6		
1/4		62	11.4	✓
+7		62	11.4	✓
cb		59	11.9	✓
11		54	12.2	✓

240 ft

11		58	11.8	✓
cb		61	11.5	✓
+3		66	11.0	✓
1/4		64	11.2	✓
1/2		63	11.3	✓
3/4		65	11.1	✓
11		69	10.7	✓
+8		63	11.3	✓
cb		58	11.8	✓
+8 = Bot. Cobble Wall		40	13.6	✓
+8 = Top		40	13.6	✓
.S		40	13.6	✓

28638 ft. E. Figueroa 02 ft

.S		65	11.1	✓
+8 = Cobble Wall Bottom		65	11.1	✓
cb		69	10.7	✓
+2		72	10.4	✓
1/4		70	10.6	✓
1/2		66	11.0	✓
3/4		69	10.7	✓
11		71	10.5	✓
+7		66	11.0	✓
cb		66	11.0	✓

	1758	17.6		
11		65	11.1	✓

144 Ave Property Line Limits
West of Grand Ave

See Sketch Page 14

BM	311	1326	10.15	✓
	BC	070 - Opp 14747225		
		13.3		
S.W. 1/4		6.6	6.7	✓
	140			
S.W. 1/4		8.1	5.7	✓
	240			
S.W. 1/4		9.0	4.3	✓
	340			
S.W. 1/4		8.2	5.1	✓
	440			
S.W. 1/4		7.2	6.1	✓
	540			
S.W. 1/4		6.3	7.0	✓
	640			
S.W. 1/4		6.0	7.3	✓
	740			
S.W. 1/4		7.5	5.8	✓
	070 - Opp 15415720			
N.W. 1/4 Line		6.9	6.4	✓
	140			
N.W. 1/4 Line		8.0	5.3	✓
	240			
N.W. 1/4 Line		9.5	3.8	✓

Atlantic St. Extension
Branch Marks Sta. 4840 to

123133

TP	634	598		-0.26	
BM			620	-0.22	Top RR Rail
TP	490	644	444	1.54	
BM			762	-1.18	07 Conc Mark 110 ft 60 x 60

Atlantic St. Extension Cross Section
Station 58+75 to 136+0

58+50 Sec 4 1436 Page 43

BM 415 297 -1.8

57+65 = Proposed Channel on Left

50 West of A

57 -2.7 ✓

95 West of A

57 -2.7 ✓

100 West of A

70 -1.0 ✓

150 West of A

89 -5.9 ✓

58+75

50 Lt 57 -2.7 ✓

23 Lt 55 -2.5 ✓

8 62 -3.2 ✓

5 Rt 63 -3.3 ✓

6 Rt 84 -5.4 ✓

14 Rt 98 -6.8 ✓

23 Rt 75 -4.5 ✓

25 Rt 60 -3.0 ✓

50 Rt 55 -2.5 ✓

59+0

50 Rt 57 -2.7 ✓

23 Rt 55 -2.5 ✓

22 Rt 75 -4.5 ✓

15 Rt 92 -6.2 ✓

07 Cont 1169

118 Rt Cont

See Sketch

*1436 Page 31

6 Rt 69

1 Rt 191

23 Lt 23 Lt

50 Lt 50 Lt

59+25

50 Lt 72

23 Lt 57

7 Lt 79

5 Lt 84

8 89

11 Rt 84

12 Rt 75

15 Rt 70

20 Rt 57

50 Rt 52

59+50

50 Rt 57

23 Rt 58

8 Rt 59

7 94

6 Lt 88

11 Lt 69

23 Lt 58

20 Lt 66

50 Lt 76

3.0

80 -5.0 ✓

67 -3.7 ✓

63 -3.3 ✓

54 -2.4 ✓

57 -2.7 ✓

72 -4.2 ✓

57 -2.7 ✓

79 -3.9 ✓

84 -5.4 ✓

89 -5.9 ✓

84 -5.4 ✓

75 -4.5 ✓

70 -3.0 ✓

57 -2.7 ✓

52 -2.2 ✓

57 -2.7 ✓

58 -2.8 ✓

59 -2.9 ✓

94 -6.4 ✓

88 -5.8 ✓

69 -3.9 ✓

58 -2.8 ✓

66 -3.6 ✓

76 -4.6 ✓

1-4 35
No. 11
Survey
North
34

297

59+75

3.0

50 Lt	79	-4.9	✓
23 Lt	73	-4.3	✓
8 Lt	74	-4.4	✓
7 Lt	92	-6.2	✓
L	90	-6.0	✓
1 Rt	89	-5.9	✓
9 Rt	61	-3.1	✓
23 Rt	55	-2.5	✓
50 Rt	58	-2.8	✓

60+0

50 Rt	59	-2.9	✓
23 Rt	58	-2.8	✓
L	74	-6.4	✓
7 Lt	101	-7.1	✓
13 Lt	91	-6.1	✓
14 Lt	81	-5.1	✓
23 Lt	78	-4.8	✓
50 Lt	80	-5.0	✓

60+50

50 Lt	86	-5.6	✓
35 Lt	92	-6.2	✓
31 Lt - 1/2 Channel	99	-6.9	✓
25 Lt	91	-6.1	✓
24 Lt	91	-6.1	✓
L	79	-4.9	✓

297

3.0

35

23 Rt	68	-3.8	✓
35 Rt	55	-2.5	✓
50 Rt	57	-2.7	✓
61+0			
50 Rt	54	-2.4	✓
30 Rt	63	-3.3	✓
23 Rt	68	-3.8	✓
L	80	-5.0	✓
23 Lt	58	-5.8	✓
50 Lt	93	-6.3	✓
6 Lt - 1/2 Channel	98	-6.8	✓

61+26.13-55

50 Lt	92	-6.2	✓
23 Lt	58	-5.8	✓
L	82	-5.2	✓
23 Rt	71	-6.1	✓
31 Rt	63	-3.3	✓
23 Rt	51	-2.1	✓
50 Rt	49	-1.9	✓

61+50

50 Rt	48	-1.8	✓
31 Rt	51	-2.1	✓
31 Rt	65	-3.5	✓
23 Rt	74	-6.4	✓
L	82	-5.2	✓
23 Lt	89	-5.9	✓

797 0001
502 25100
-501

297

3.0

50 Lt		92	-6.2	✓
	62+0			
50 Lt		91	-6.1	✓
23 Lt		88	-5.8	✓
2		82	-5.2	✓
25 Pt		76	-4.6	✓
36 Pt		75	-5.5	✓
39 Pt		52	-2.2	✓
50 Pt		50	-2.0	✓
	62+50			
50 Pt		53	-2.3	✓
43 Pt		52	-2.2	✓
41 Pt		62	-3.2	✓
23 Pt		78	-4.8	✓
2		86	-5.6	✓
23 Lt		90	-6.0	✓
50 Lt		92	-6.2	✓
	63+0			
50 Lt		94	-6.4	✓
23 Lt		89	-5.9	✓
2		84	-5.4	✓
22 Pt		73	-4.3	✓
15 Pt		56	-2.6	✓
50 Pt		56	-2.6	✓
	63+50			
50 Pt		57	-2.7	✓

297

3.0

23 Pt		76	-4.6	✓
2		79	-4.9	✓
23 Lt		76	-4.6	✓
50 Lt		89	-5.9	✓
	64+0			
50 Lt		89	-5.9	✓
23 Lt		86	-5.6	✓
2		84	-5.4	✓
23 Pt		76	-4.6	✓
50 Pt		61	-3.1	✓
	64+50			
50 Pt		70	-4.0	✓
23 Pt		77	-4.7	✓
2		86	-5.6	✓
23 Lt		89	-5.9	✓
50 Lt		91	-6.1	✓
	65+0 - Opp. 18521 Plank Collected Under Sand 26			
50 Lt		93	-6.3	✓
23 Lt		89	-5.9	✓
2		87	-5.7	✓
23 Pt		82	-5.2	✓
35 Pt		80	-5.0	✓
50 Pt		66	-3.6	✓
70 Pt		54	-2.4	✓
100 Pt		54	-2.4	✓
150 Pt		48	-1.8	✓

36

297

3.0

157'P			11	-1.4 ✓	
165'P			12	-1.8 ✓	
179'P			18	1.2 ✓	
182'P			38	-0.8 ✓	
200'P			39	-0.9 ✓	
215'P			27	0.3 ✓	
230'P			23	2.7 ✓	
PP	763	888	172	12.5	
			83		
250'P			23	4.6 ✓	
278'P			35	5.2 ✓	
281'P	176	297	333	5.6 ✓	02 Flare Line
PP	176	297	763	125	
	65+50		<u>3.0</u>		
50'P			79	-5.9 ✓	
23'P			86	-5.6 ✓	
1/2			89	-5.9 ✓	
23'Lt			90	-6.0 ✓	
50'Lt			91	-6.1 ✓	
	66+50				
50'Lt			91	-6.1 ✓	
23'Lt			90	-6.0 ✓	
1/2			89	-5.9 ✓	
23'P			87	-5.7 ✓	
50'P			80	-5.0 ✓	
	66+50				
50'P			81	-5.1 ✓	

37

3.0

23'P			88	-5.8 ✓	
1/2			90	-6.0 ✓	
23'Lt			91	-6.1 ✓	
50'Lt			91	-6.1 ✓	
	67+50				
50'Lt			92	-6.2 ✓	
23'Lt			91	-6.1 ✓	
1/2			90	-6.0 ✓	
23'P			88	-5.8 ✓	
50'P			79	-4.9 ✓	
	67+50				
50'P			85	-5.5 ✓	
23'P			90	-6.0 ✓	
1/2			90	-6.0 ✓	
23'Lt			91	-6.1 ✓	
50'Lt			93	-6.3 ✓	
	68+50				
50'Lt			93	-6.3 ✓	
23'Lt			93	-6.2 ✓	
1/2			91	-6.1 ✓	
26'P			89	-5.9 ✓	
50'P			87	-5.7 ✓	
	68+50				
50'P			88	-5.8 ✓	
23'P			90	-6.0 ✓	
1/2			92	-6.2 ✓	

297 3.0

23H		92	-6.2 ✓		
50H		93	-6.3 ✓		
69+0					
50H		94	-6.4 ✓		
23H		92	-6.2 ✓		
2		91	-6.1 ✓		
23R1		90	-6.0 ✓		
50R1		89	-5.9 ✓		
TP	12.33	788	712	-4.25	09 Mo2 80R1H+50
BM			1.55	6.33 ✓	09 Mo2 80R1H+50
BM	4.21	-0.21		-1.15	09 Mo2 80R1H+50
69+50				-0.2	
50R1		56	-5.8 ✓		
23R1		60	-6.2 ✓		
2		58	-6.0 ✓		
23H		61	-6.3 ✓		
50H		62	-6.4 ✓		
70+0					
50H		63	-6.4 ✓		
23H		61	-6.3 ✓		
2		60	-6.2 ✓		
23R1		59	-6.1 ✓		
50R1		57	-5.9 ✓		
70+50					
50R1		58	-6.0 ✓		
23R1		59	-6.1 ✓		

-0.2

2		60	-6.2 ✓		
23H		63	-6.4 ✓		
50H		63	-6.5 ✓		
71+0					
50H		63	-6.5 ✓		
23H		61	-6.3 ✓		
2		60	-6.2 ✓		
23R1		60	-6.2 ✓		
50R1		56	-5.8 ✓		
71+50					
50R1		58	-6.0 ✓		
23R1		58	-6.0 ✓		
2		61	-6.3 ✓		
23H		62	-6.4 ✓		
50H		63	-6.5 ✓		
72+0					
50H		63	-6.5 ✓		
23H		63	-6.4 ✓		
2		61	-6.3 ✓		
23R1		60	-6.2 ✓		
50R1		58	-6.0 ✓		
TP	9.80	866	090	-7.14	
72+35 = App 36 Corp. Log. Collected Under Station					
282	R1	My End of 34 Corp	8.7	1.7 ✓	Flank
278R	R1	My End of 34 Corp	7.08	1.5 ✓	
278R	R1	My End of 34 Corp	7.29	1.5 ✓	
270R	R1		7.8	0.9 ✓	

260 Pt		62	2.5 ✓
200 Pt		52	3.5 ✓
190 Pt		51	3.6 ✓
180 Pt		73	1.2 ✓
155 Pt		73	1.2 ✓
145 Pt		49	3.8 ✓
140 Pt		104	-1.7 ✓
TP	0.90	980 -0.2	-1.1
100 Pt		47	-4.9 ✓
50 Pt		57	-5.9 ✓
23 Pt		58	-6.0 ✓
8		61	-6.3 ✓
23 Lt		62	-6.4 ✓
50 Lt		63	-6.5 ✓
50 Lt	72.50	64	-6.6 ✓
23 Lt		62	-6.4 ✓
8		61	-6.3 ✓
23 Pt		57	-5.9 ✓
50 Pt		52	-5.4 ✓
50 Pt	72.0	53	-5.5 ✓
23 Pt		59	-6.1 ✓
8		61	-6.3 ✓
23 Lt		63	-6.5 ✓
50 Lt		64	-6.6 ✓

737.50		64	-6.6 ✓
50 Lt		62	-6.5 ✓
23 Lt		62	-6.4 ✓
8		60	-6.2 ✓
23 Pt		59	-6.1 ✓
50 Pt		59	-6.1 ✓
74.0		62	-6.4 ✓
23 Pt		62	-6.4 ✓
8		63	-6.5 ✓
23 Lt		64	-6.6 ✓
50 Lt		64	-6.6 ✓
74.50		63	-6.5 ✓
23 Lt		62	-6.4 ✓
8		61	-6.3 ✓
23 Pt		59	-6.1 ✓
50 Pt		60	-6.2 ✓
75.0		62	-6.4 ✓
23 Pt		62	-6.4 ✓
8		63	-6.5 ✓
23 Lt		64	-6.6 ✓
50 Lt		65	-6.7 ✓
75.50			

	-0.24	-0.2	
23' Pt		6.3	-6.5 ✓
1/2		6.2	-6.4 ✓
23' Pt		6.1	-6.3 ✓
50' Pt		6.1	-6.3 ✓
	7640		
50' Pt		6.0	-6.2 ✓
23' Pt		6.2	-6.4 ✓
1/2		6.2	-6.4 ✓
23' Pt		6.3	-6.5 ✓
50' Pt		6.4	-6.6 ✓
	76450		
50' Pt		6.4	-6.6 ✓
23' Pt		6.3	-6.5 ✓
1/2		6.2	-6.4 ✓
23' Pt		6.1	-6.3 ✓
50' Pt		6.0	-6.2 ✓
	7740		
50' Pt		6.0	-6.2 ✓
23' Pt		6.1	-6.3 ✓
1/2		6.2	-6.4 ✓
23' Pt		6.3	-6.5 ✓
50' Pt		6.4	-6.6 ✓
	77450		
50' Pt		6.5	-6.7 ✓
23' Pt		6.3	-6.5 ✓
1/2		6.2	-6.4 ✓

	-0.24	-0.2	
23' Pt		6.1	-6.3 ✓
50' Pt		6.0	-6.2 ✓
TP	9.16	1.92	1.09
	7840		4.9
50' Pt		11.3	-6.3 ✓
23' Pt		11.3	-6.2 ✓
1/2		11.5	-6.6 ✓
23' Pt		11.5	-6.6 ✓
50' Pt		11.7	-6.8 ✓
	78450		
50' Pt		11.8	-6.9 ✓
23' Pt		11.6	-6.7 ✓
1/2		11.6	-6.5 ✓
23' Pt		11.3	-6.2 ✓
50' Pt		11.3	-6.3 ✓
	7940		
50' Pt		11.2	-6.3 ✓
23' Pt		11.3	-6.4 ✓
1/2		11.4	-6.5 ✓
23' Pt		11.5	-6.6 ✓
50' Pt		11.6	-6.7 ✓
	79450		
50' Pt		11.6	-6.7 ✓
23' Pt		11.5	-6.6 ✓
1/2		11.4	-6.5 ✓
23' Pt		11.4	-6.5 ✓

	492	<u>2.9</u>		
50 R1		112	-6.3	✓
	80+0			
50 R1		112	-6.3	✓
23 R1		113	-6.4	✓
7		115	-6.6	✓
23 L1		115	-6.6	✓
50 L1		116	-6.7	✓
	80+50			
50 L1		116	-6.7	✓
23 L1		115	-6.6	✓
7		114	-6.5	✓
23 R1		114	-6.5	✓
50 R1		112	-6.3	✓
	81+0			
50 R1		112	-6.3	✓
23 R1		113	-6.4	✓
7		114	-6.5	✓
23 L1		116	-6.7	✓
50 L1		116	-6.7	✓
	81+50			
50 L1		116	-6.7	✓
23 L1		115	-6.6	✓
7		114	-6.5	✓
23 R1		113	-6.4	✓
50 R1		112	-6.3	✓

	492	<u>2.9</u>		
50 R1		112	-6.3	✓
	82+0			
50 R1		112	-6.3	✓
23 R1		113	-6.4	✓
7		114	-6.5	✓
23 L1		115	-6.6	✓
50 L1		116	-6.7	✓
	82+50			
50 L1		116	-6.7	✓
23 L1		115	-6.6	✓
7		114	-6.5	✓
23 R1		113	-6.4	✓
50 R1		111	-6.2	✓
	83+0			
50 R1		112	-6.3	✓
23 R1		113	-6.4	✓
7		114	-6.5	✓
23 L1		114	-6.5	✓
50 L1		116	-6.7	✓
	83+50			
50 L1		116	-6.7	✓
23 L1		114	-6.5	✓
7		113	-6.4	✓
23 R1		113	-6.3	✓
50 R1		111	-6.2	✓

	492	29		
84+0				
50 Pt		111	-6.2	✓
23 Pt		112	-6.3	✓
8		113	-6.4	✓
23 Lt		115	-6.6	✓
50 Lt		116	-6.7	✓
BM		179	31.3	31.1 1.000 Pt Pt 82+25
84+50				
50 Lt		116	-6.7	✓
23 Lt		114	-6.5	✓
8		113	-6.4	✓
23 Pt		113	-6.4	✓
50 Pt		111	-6.2	✓
85+0				
50 Pt		111	-6.2	✓
23 Pt		111	-6.2	✓
8		113	-6.4	✓
23 Lt		114	-6.5	✓
50 Lt		116	-6.7	✓
85+50				
50 Lt		114	-6.5	✓
23 Lt		114	-6.5	✓
8		113	-6.4	✓
23 Pt		111	-6.2	✓
50 Pt		110	-6.1	✓

	192			
TP	1.29	3.43	3.39	1.53
		86+0	3.4	
50 Pt			96	-6.2 ✓
23 Pt			98	-6.4 ✓
8			98	-6.4 ✓
23 Lt			99	-6.5 ✓
50 Lt			101	-6.7 ✓
86+50				
50 Lt			101	-6.7 ✓
23 Lt			99	-6.5 ✓
8			98	-6.4 ✓
23 Pt			97	-6.3 ✓
50 Pt			94	-6.0 ✓
87+0				
50 Pt			93	-5.9 ✓
23 Pt			96	-6.2 ✓
8			98	-6.4 ✓
23 Lt			99	-6.5 ✓
50 Lt			100	-6.6 ✓
87+50				
50 Lt			100	-6.6 ✓
23 Lt			97	-6.3 ✓
8			95	-6.1 ✓
23 Pt			93	-5.9 ✓
50 Pt			92	-5.8 ✓

	88-0	3.42	3.4	
50 ft		8.7	-5.3	✓
23 ft		8.6	-5.2	✓
8		9.2	-5.8	✓
23 ft		9.6	-6.2	✓
50 ft		9.8	-6.2	✓
88+50				
50 ft		9.7	-6.3	✓
23 ft		9.6	-6.2	✓
8		8.6	-5.2	✓
23 ft		8.0	-4.6	✓
50 ft		7.8	-4.2	✓
89+0				
50 ft		7.4	-4.0	✓
23 ft		7.9	-4.5	✓
8		7.8	-4.2	✓
23 ft		8.6	-5.2	✓
50 ft		9.4	-6.0	✓
89+50				
50 ft		9.1	-5.7	✓
23 ft		8.3	-5.9	✓
8		7.8	-4.4	✓
23 ft		7.3	-3.9	✓
50 ft		7.1	-3.7	✓

	89+67	3.42	3.4	
300 ft of Santal ground		10	2.4	✓
250 ft		1.3	2.1	✓
200 ft		2.3	0.6	✓
190 ft		1.6	1.8	✓
180 ft		2.0	1.4	✓
170 ft		4.2	-0.8	✓
150 ft		4.5	-1.1	✓
125 ft		5.5	-2.1	✓
100 ft		6.8	-3.4	✓
50 ft		6.9	-3.5	✓
23 ft		6.7	-3.3	✓
8		7.7	-4.3	✓
23 ft		8.3	-4.9	✓
50 ft		9.1	-5.7	✓
90+0				
50 ft		7.2	-5.8	✓
23 ft		8.2	-4.8	✓
8		7.6	-4.2	✓
23 ft		6.6	-3.2	✓
50 ft		6.8	-3.5	✓
90+50				
50 ft		7.1	-4.0	✓
23 ft		7.6	-4.2	✓
8		7.5	-4.1	✓
23 ft		8.4	-5.0	✓

3.42

$$\frac{3.4}{93} - 5.9 \quad \checkmark$$

50 Lt

91+0

50 Lt

94 - 6.0 \checkmark

23 Lt

82 - 4.8 \checkmark

2

82 - 4.8 \checkmark

23 Pt

78 - 4.4 \checkmark

50 Pt

77 - 4.3 \checkmark

91+50

50 Pt

82 - 4.8 \checkmark

23 Pt

84 - 5.0 \checkmark

2

85 - 5.1 \checkmark

23 Lt

90 - 5.6 \checkmark

50 Lt

91 - 6.0 \checkmark

92+0

50 Lt

96 - 6.2 \checkmark

23 Lt

89 - 5.5 \checkmark

2

88 - 5.2 \checkmark

23 Pt

87 - 5.3 \checkmark

50 Pt

87 - 5.3 \checkmark

92+50

50 Pt

85 - 5.1 \checkmark

23 Pt

88 - 5.4 \checkmark

2

88 - 5.4 \checkmark

23 Lt

93 - 5.9 \checkmark

50 Lt

95 - 6.1 \checkmark

3.42

$$\frac{3.4}{93}$$

44

93+0

50 Lt

95 - 6.1 \checkmark

23 Lt

92 - 5.8 \checkmark

2

91 - 5.7 \checkmark

23 Pt

92 - 5.9 \checkmark

50 Pt

81 - 4.7 \checkmark

93+50

50 Pt

82 - 4.8 \checkmark

23 Pt

92 - 5.8 \checkmark

2

92 - 5.9 \checkmark

23 Lt

94 - 6.0 \checkmark

50 Lt

94 - 6.0 \checkmark

94+0

50 Lt

96 - 6.2 \checkmark

23 Lt

92 - 5.8 \checkmark

2

92 - 5.8 \checkmark

23 Pt

87 - 5.3 \checkmark

50 Pt

76 - 4.2 \checkmark

94+46.75 = 8.5

50 Pt

67 - 3.3

23 Pt

83 - 4.9

2

90.1 - 5.61

23 Lt

92 - 5.9

50 Lt

92 - 5.8

TP

11.51 14.19

0.74

268

B.M.

273

11.46

8.77 9.20
-5.35 5.23

Nail Post

S.M. Nov
Merced +
Jellert 1151
10/21/50

	6.2		
50 Lt	126	-6.2	✓
97+0			
50 Lt	119	-5.7	✓
23 Lt	105	-4.3	✓
1/2	87	-2.5	✓
16 Pt	82	-2.0	✓
23 Pt	64	-0.2	✓
50 Pt	54	0.8	✓
97+50			
50 Pt	48	1.2	✓
23 Pt	56	0.6	✓
14 Pt	62	0.0	✓
11 Pt	79	-1.7	✓
1/2	89	-2.7	✓
23 Lt	85	-2.3	✓
50 Lt	104	-4.2	✓
98+0			
50 Lt	88	-2.6	✓
23 Lt	89	-2.7	✓
1/2	78	-1.6	✓
6 Pt	52	1.0	✓
23 Pt	47	1.5	✓
50 Pt	41	2.1	✓
98+25			
50 Pt	40	2.2	✓
23 Pt	37	2.5	✓

	6.2		
2 Pt	49	1.3	✓
1/2	66	-0.4	✓
23 Lt	79	-1.7	✓
50 Lt	95	-3.3	✓
98+50			
50 Lt	91	-2.9	✓
23 Lt	86	-2.5	✓
12 Lt	84	-2.2	✓
1/2	70	-0.8	✓
23 Pt	62	0.0	✓
30 Pt	40	2.2	✓
50 Pt	35	2.7	✓
98+63 = Prop Channel ✓			
50 Pt	66	2.6	✓
47 Pt = Bot Channel	77	-1.5	✓
40 Pt	89	-2.7	✓
23 Pt	87	-2.5	✓
1/2	86	-2.4	✓
23 Lt	82	-2.0	✓
50 Lt = 2 Stream Bed	90	-2.8	✓
98+67			
50 Lt	88	-2.6	✓
23 Lt	83	-2.1	✓
1/2 Bot Channel	87	-2.5	✓
23 Pt	71	-0.9	✓
35 Pt	73	-1.1	✓

	6.21	6.2		
44 Pt. Channel	84	-2.4	✓	
50 Pt.	79	-1.7	✓	
	98+72			
50 Pt.	81	-1.9	✓	
44 Pt.	83	-2.1	✓	
37 Pt.	12	0.0	✓	
23 Pt.	11	0.1	✓	
2	85	-2.3	✓	
23 Lt.	84	-2.2	✓	
50 Lt.	88	-2.6	✓	
	98+90			
50 Lt.	92	-3.0	✓	
23 Lt.	80	-1.8	✓	
2	65	-0.3	✓	
10 Pt.	59	0.3	✓	
23 Pt.	86	2.6	✓	
50 Pt.	88	3.4	✓	
	99+0			
50 Pt.	30	3.2	✓	
23 Pt.	38	2.4	✓	
10 Pt.	27	2.5	✓	
8 Pt.	56	0.6	✓	
2	60	0.2	✓	
23 Lt.	82	-2.0	✓	
50 Lt.	93	-3.1	✓	

	6.21	6.2		
	99+50			
50 Lt.	104	-4.2	✓	
23 Lt.	88	-2.6	✓	
7 Lt.	83	-2.1	✓	
4 Lt.	44	1.8	✓	
2	42	2.0	✓	
23 Pt.	32	3.0	✓	
50 Pt.	22	2.0	✓	
	100+0			
50 Pt.	19	4.3	✓	
23 Pt.	31	3.1	✓	
2	39	2.3	✓	
8 Lt.	40	2.2	✓	
10 Lt.	69	-0.7	✓	
23 Lt.	99	-3.7	✓	
50 Lt.	10.7	-4.5	✓	
	100+50			
50 Lt.	112	-5.0	✓	
23 Lt.	102	-4.0	✓	
9 Lt.	90	-2.8	✓	
2 Lt.	65	-0.3	✓	
2	42	2.0	✓	
2 Pt.	32	2.9	✓	
23 Pt.	26	3.6	✓	
50 Pt.	20	2.5	✓	

6.21

100+75

6.2

50 ft	2.6	3.6	✓
23 ft	3.0	3.2	✓
21 ft	3.5	2.7	✓
8	9.0	-7.8	✓
23 ft	10.6	-4.2	✓
50 ft	11.6	-5.4	✓

101+0

50 ft	12.1	-5.9	✓
23 ft	11.3	-5.1	✓
8	10.0	-3.8	✓
14 ft	6.0	0.2	✓
15 ft	3.2	3.0	✓
25 ft	3.1	3.1	✓
50 ft	2.7	4.0	✓

101+25

50 ft	3.0	4.2	✓
23 ft	3.2	3.0	✓
20 ft	7.6	-1.4	✓
8	10.2	-2.1	✓
23 ft	11.8	-5.6	✓
50 ft	12.0	-5.8	✓

101+30

50 ft	12.0	-5.8	✓
23 ft	11.7	-5.5	✓
8	10.5	-4.3	✓

6.21

6.2

48

23 ft	3.0	-1.8	✓
30 ft	2.6	3.6	✓
50 ft	2.0	4.2	✓

101+50

50 ft	2.4	3.8	✓
36 ft	2.8	3.2	✓
33 ft	9.4	-3.2	✓
23 ft	10.0	-3.8	✓
8	11.3	-5.1	✓
23 ft	11.8	-5.6	✓
50 ft	12.2	-6.0	✓

102+0

50 ft	12.1	-5.9	✓
23 ft	11.8	-5.6	✓
8	11.6	-5.4	✓
23 ft	11.0	-4.8	✓
17 ft	10.0	-3.8	✓
50 ft	2.3	2.9	✓

102+10

50 ft	9.9	-3.7	✓
23 ft	11.1	-4.9	✓
8	11.8	-5.6	✓
23 ft	12.3	-6.1	✓
50 ft	12.3	-6.1	✓

102+50

50 ft	12.2	-6.0	✓
-------	------	------	---

		6.24	6.2		
23' Lt			12.3	-6.1	✓
2			11.6	-5.4	✓
23' Rt			11.2	-5.0	✓
50' Rt			10.4	-4.7	✓
TP	13.21	9.42	10.03	-3.79	
BM			1.29	2.13	
TP	3.64	-0.15	13.21	-3.79	
	103+0		-0.2		
50' Rt			4.3	-4.5	
23' Rt			4.9	-5.1	
2			5.5	-5.7	
23' Lt			5.9	-6.1	
50' Lt			5.9	-6.1	
	103+50				
50' Lt			5.9	-6.1	
23' Lt			5.9	-6.1	
2			5.5	-5.7	
23' Rt			5.1	-5.3	
50' Rt			4.5	-4.7	
	104+0				
50' Rt			4.6	-4.8	
23' Rt			5.4	-5.6	
2			5.7	-5.9	
23' Lt			5.9	-6.1	
50' Lt			6.1	-6.3	

3/4" Iron Pipe

105' Rt 106+50

Oct 8, 10

For Profile BM

		-0.15	-0.2	
	104+50		6.0	-6.2
50' Lt			6.1	-6.3
23' Lt			5.8	-6.0
2			5.5	-5.7
23' Rt			4.7	-4.9
50' Rt				
	105+0		5.0	-5.2
23' Rt			5.7	-5.9
2			5.8	-6.0
23' Lt			6.1	-6.3
50' Lt			6.1	-6.3
	105+50			
50' Lt			6.2	-6.4
23' Lt			6.0	-6.2
2			5.9	-6.1
23' Rt			5.7	-5.9
50' Rt			5.1	-5.3
	106+0			
50' Rt			5.4	-5.6
23' Rt			5.8	-6.0
2			5.9	-6.1
23' Lt			6.1	-6.3
50' Lt			6.2	-6.4

Cont Page 51

Levels From Atlantic St. Extension
to 114 Ind Conc Arch Culvert #0262
Under Santa Fe RR

See Sketch Page 45

	10.45	12.45	12.5	2.00	07 Ground 99+50
0+0 = 99+48		70.5	70.5	7.0	✓
0+50		85	85	7.0	✓
0+80		62	62	6.3	✓
0+95		90	90	3.5	✓
1+0		93	93	3.2	✓
1+50		77	77	4.8	✓
1+60		79	79	4.6	✓
2+0		56	56	6.9	✓
2+05		53	53	7.2	✓
2+16 - Bot Ch tunnel		112	112	1.3	✓
2+43		115	115	1.0	✓
2+50		106	106	1.9	✓
2+56		63	63	6.2	✓
2+76		52	52	7.3	✓
2+91 = 114 Conc Arch Culvert #0262 on Santa Fe		10.25	10.25	0.25	

Check Levels

1-8-32

50

		Use This BM			
BM	4.60	16.11		11.46	3" Pipe 11.51
TP	2.24	10.89	7.96	8.15	3" 100 Pipe 10.57 10.57 10.57 Use 8.10
TP	5.57	11.72	4.24	6.15	
BM	5.00	10.42	6.30	5.42	3" 100 Pipe 5.27 10.57 11.7+50 40' of 1" Head Water Spring 22 ft 20 ft Bank
BM	5.00	10.71	4.71	5.71	5.66 3" 100 Pipe 120 ft 11.40 opp. of Conc Culvert on Santa Fe
TP	5.28	11.69	4.10	6.61	
BM	6.36	12.89	5.16	6.53	6.48 B.P. Conc Mort 60 ft 13.2+50
TP	6.52	15.32	4.08	8.81	
BM			5.11	10.22	10.19 10.57 11.8+50 10.15 11.3 Walker

-0.15

106+50 -0.2

50 Lt	63	-6.5 ✓
23 Lt	60	-6.2 ✓
2	59	-6.1 ✓
23 Rt	58	-6.0 ✓
50 Rt	54	-5.6 ✓

107+0

50 Rt	55	-5.7 ✓
23 Rt	58	-6.0 ✓
2	60	-6.2 ✓
23 Lt	62	-6.2 ✓
50 Lt	63	-6.5 ✓

107+50

50 Lt	62	-6.5 ✓
23 Lt	63	-6.4 ✓
2	60	-6.2 ✓
23 Rt	57	-5.9 ✓
50 Rt	56	-5.8 ✓

108+0

50 Rt	51	-5.8 ✓
23 Rt	60	-6.2 ✓
2	60	-6.2 ✓
23 Lt	62	-6.4 ✓
50 Lt	62	-6.5 ✓

-0.15

108+50 -0.2

50 Lt	64	-6.6 ✓
23 Lt	62	-6.4 ✓
2	60	-6.2 ✓
23 Rt	59	-6.1 ✓
50 Rt	58	-6.0 ✓

109+0

50 Rt	58	-6.6 ✓
23 Rt	60	-6.2 ✓
2	61	-6.3 ✓
23 Lt	62	-6.4 ✓
50 Lt	64	-6.6 ✓

109+50

50 Lt	64	-6.6 ✓
23 Lt	63	-6.5 ✓
2	62	-6.4 ✓
23 Rt	60	-6.2 ✓
50 Rt	58	-6.0 ✓

110+0

50 Rt	59	-6.1 ✓
23 Rt	61	-6.3 ✓
2	62	-6.4 ✓
23 Lt	65	-6.7 ✓
50 Lt	65	-6.7 ✓

110+50 = Proposed Culvert opp 8x8¹/₂ Prec. Frick Culvert
-0.15 -0.2

50 Lt	65	-6.7 ✓
33 Lt	64	-6.6 ✓
2	62	-6.5 ✓
23 Rt	62	-6.4 ✓
50 Rt	60	-6.2 ✓

111+0

50 Rt	54	-5.6 ✓
23 Rt	62	-6.4 ✓
2	64	-6.6 ✓
33 Lt	64	-6.6 ✓
50 Lt	66	-6.8 ✓

111+50

50 Lt	67	-6.9 ✓
33 Lt	65	-6.7 ✓
2	64	-6.6 ✓
23 Rt	63	-6.5 ✓
50 Rt	58	-6.0 ✓

TP 296 -0.75 356 -3.71

112+0

50 Rt	56	-6.4 ✓
23 Rt	57	-6.5 ✓
2	59	-6.7 ✓
33 Lt	59	-6.7 ✓
50 Lt	60	-6.8 ✓

112+22.75 EC -0.8

50 Lt	61	-6.9 ✓
23 Lt	60	-6.8 ✓
2	58	-6.6 ✓
23 Rt	56	-6.4 ✓
50 Rt	55	-6.3 ✓

112+50

50 Rt	56	-6.4 ✓
23 Rt	58	-6.6 ✓
2	60	-6.8 ✓
33 Lt	60	-6.8 ✓
50 Lt	61	-6.9 ✓

113+0

50 Lt	62	-7.0 ✓
23 Lt	60	-6.8 ✓
2	59	-6.7 ✓
23 Rt	57	-6.5 ✓
50 Rt	56	-6.4 ✓

113+50

50 Rt	57	-6.5 ✓
23 Rt	58	-6.6 ✓
2	60	-6.8 ✓
33 Lt	61	-6.9 ✓
50 Lt	62	-7.0 ✓

-0.75

114+0 -0.8

50 Lt	62	-7.0	✓
23 Pt	61	-6.9	✓
L	60	-6.8	✓
23 Pt	59	-6.7	✓
50 Pt	57	-6.5	✓

114+50

50 Pt	58	-6.6	✓
23 Pt	60	-6.8	✓
L	61	-6.9	✓
23 Lt	62	-7.0	✓
50 Lt	63	-7.1	✓

115+0

50 Lt	64	-7.2	✓
23 Lt	62	-7.0	✓
L	61	-6.9	✓
23 Pt	60	-6.8	✓
50 Pt	58	-6.6	✓

115+50

50 Pt	59	-6.7	✓
23 Pt	60	-6.8	✓
L	61	-6.9	✓
23 Lt	62	-7.0	✓
50 Lt	64	-7.2	✓

116+0 -0.8

50 Lt	64	-7.2	✓
23 Lt	63	-7.1	✓
L	61	-6.9	✓
23 Pt	60	-6.8	✓
50 Pt	59	-6.7	✓

116+50

50 Pt	59	-6.7	✓
23 Pt	60	-6.8	✓
L	62	-7.0	✓
23 Lt	64	-7.2	✓
50 Lt	65	-7.3	✓

117+0

50 Lt	65	-7.3	✓
23 Lt	63	-7.1	✓
L	62	-7.0	✓
23 Pt	61	-6.9	✓
50 Pt	60	-6.8	✓

117+50

50 Pt	59	-6.7	✓
23 Pt	61	-6.9	✓
L	62	-7.0	✓
23 Lt	65	-7.3	✓
50 Lt	66	-7.4	✓

8/14 5.37
 ✓ 1/2 Iron Ppt
 125 Pt of
 117+50

-0.75
-0.8
118+0 = Proposed Colvert ✓

50 Lt	6.7	-7.5 ✓
23 Lt	6.4	-7.2 ✓
1/2	6.3	-7.1 ✓
23 Pt	6.1	-6.9 ✓
50 Pt	6.0	-6.8 ✓

118+50

50 Pt	6.1	-6.9 ✓
23 Pt	6.1	-6.9 ✓
1/2	6.2	-7.0 ✓
23 Lt	6.5	-7.3 ✓
50 Lt	6.7	-7.5 ✓

119+0

50 Lt	6.7	-7.5 ✓
23 Lt	6.6	-7.4 ✓
1/2	6.3	-7.1 ✓
23 Pt	6.2	-7.0 ✓
50 Pt	6.0	-6.8 ✓

119+50

50 Pt	6.0	-6.8 ✓
23 Pt	6.2	-7.0 ✓
1/2	6.3	-7.1 ✓
23 Lt	6.5	-7.3 ✓
50 Lt	6.7	-7.5 ✓

-0.75
-0.8
120+0

50 Lt	6.7	-7.5 ✓
23 Lt	6.5	-7.3 ✓
1/2	6.3	-7.1 ✓
23 Pt	6.2	-7.0 ✓
50 Pt	6.0	-6.8 ✓

120+50

50 Pt	6.1	-6.9 ✓
23 Pt	6.1	-6.9 ✓
1/2	6.2	-7.0 ✓
23 Lt	6.5	-7.3 ✓
50 Lt	6.7	-7.5 ✓

121+0

50 Lt	6.7	-7.5 ✓
23 Lt	6.6	-7.4 ✓
1/2	6.3	-7.1 ✓
23 Pt	6.2	-7.0 ✓
50 Pt	6.0	-6.8 ✓

121+50

50 Pt	6.0	-6.8 ✓
23 Pt	6.2	-7.0 ✓
1/2	6.3	-7.1 ✓
23 Lt	6.5	-7.3 ✓
50 Lt	6.7	-7.5 ✓

-0.17

122+0

50 Lt	72	-7.4	✓
23 Lt	70	-7.2	✓
2	68	-7.0	✓
23 Pt	66	-6.8	✓
50 Pt	65	-6.7	✓

122+50

50 Pt	65	-6.7	✓
23 Pt	67	-6.9	✓
2	68	-7.0	✓
23 Lt	70	-7.2	✓
50 Lt	72	-7.4	✓

123+0

50 Lt	71	-7.3	✓
23 Lt	69	-7.1	✓
2	67	-6.9	✓
23 Pt	66	-6.8	✓
50 Pt	64	-6.6	✓

123+50

50 Pt	64	-6.6	✓
23 Pt	66	-6.8	✓
2	67	-6.9	✓
25 Lt	69	-7.1	✓
50 Lt	71	-7.3	✓

-0.17 -0.2

124+0 - Proposed Culvert opp. Sogata Culvert 30' Gap

55

50 Lt	69	-7.1	✓
23 Lt	68	-7.0	✓
2	67	-6.9	✓
23 Pt	65	-6.7	✓
50 Pt	62	-6.4	✓

BM 566
311' Iron Pipe
120' Station
124+0

124+59.6 - 82

50 Pt	61	-6.3	✓
23 Pt	64	-6.6	✓
2	63	-6.5	✓
23 Lt	67	-6.9	✓
50 Lt	68	-7.0	✓

125+0

50 Lt	68	-7.0	✓
23 Lt	66	-6.8	✓
2	65	-6.7	✓
23 Pt	63	-6.5	✓
50 Pt	61	-6.3	✓

125+50

50 Pt	60	-6.2	✓
23 Pt	63	-6.5	✓
2	64	-6.6	✓
23 Lt	66	-6.8	✓
50 Lt	67	-6.9	✓

-0.17

12670

	-0.2	
50 Lt	6.6	-6.8 ✓
23 Lt	6.5	-6.7 ✓
♂	6.3	-6.5 ✓
23 Pt	6.2	-6.4 ✓
50 Pt	6.0	-6.2 ✓

126750

50 Pt	5.7	-5.9 ✓
23 Pt	6.0	-6.2 ✓
♂	6.0	-6.2 ✓
23 Lt	6.3	-6.5 ✓
50 Lt	6.6	-6.8 ✓

12720 = Prop Culvert opp Culvert old RR

50 Lt	6.4	-6.6 ✓
23 Lt	6.3	-6.5 ✓
♂	6.0	-6.2 ✓
23 Pt	4.9	-5.1 ✓
50 Pt	4.2	-4.4 ✓

127750

50 Pt	3.9	-4.1 ✓
23 Pt	5.5	-5.7 ✓
♂	5.9	-6.1 ✓
23 Lt	5.9	-6.1 ✓
50 Lt	6.4	-6.6 ✓

-0.17

12870

	-0.2	
50 Lt	6.1	-6.3 ✓
23 Lt	5.7	-5.9 ✓
♂	5.6	-5.8 ✓
23 Pt	5.3	-5.5 ✓
50 Pt	3.0	-3.2 ✓

128750

50 Pt	2.5	-2.7 ✓
23 Pt	4.3	-4.5 ✓
♂	5.6	-5.8 ✓
23 Lt	5.8	-6.0 ✓
50 Lt	5.9	-6.1 ✓

12970

50 Lt	6.0	-6.2 ✓
23 Lt	5.5	-5.7 ✓
♂	5.4	-5.6 ✓
23 Pt	3.6	-3.8 ✓
50 Pt	1.8	-2.0 ✓

TP 1135 790 328 -3.45

129710

50 Pt	7.9	3.5 ✓
43 Pt	10.0	-2.1 ✓
23 Pt	11.7	-3.8 ✓
♂	13.3	-5.9 ✓
23 Lt	13.9	-6.0 ✓
50 Lt	14.0	-6.1 ✓

79° 7.9
129+5° = opp. Calvert Cliffs Santa Fe 36 Core Pipe

50 ft	139	-6.0	✓
23 ft	136	-5.7	✓
4	128	-4.9	✓
23 ft	109	-3.0	✓
35 ft	98	-1.9	✓
42 ft	44	3.5	✓
50 ft	57	2.2	✓

130+0

50 ft	23	5.6	✓
30 ft	38	2.1	✓
23 ft	96	-1.7	✓
4	115	-3.6	✓
23 ft	124	-5.5	✓
50 ft	139	-6.0	✓

130+20

50 ft	135	-5.6	✓
23 ft	124	-4.5	✓
4	110	-3.1	✓
17 ft	96	-1.7	✓
23 ft	44	3.5	✓
32 ft	44	3.5	✓
39 ft	28	5.1	✓
50 ft	18	6.1	✓

130+50

50 ft	47	6.2	✓
-------	----	-----	---

79° 7.9

39 ft	25	5.4	✓
31 ft	47	3.2	✓
23 ft	52	2.7	✓
14 ft	95	-1.6	✓
4	104	-2.5	✓
23 ft	116	-3.7	✓
50 ft	126	-4.7	✓

131+0

50 ft	112	-3.3	✓
23 ft	89	-1.0	✓
4	80	-0.1	✓
20 ft	65	1.4	✓
23 ft	48	3.1	✓
38 ft	24	5.5	✓
50 ft	21	5.8	✓

131+20 = Prop Calvert 24" ✓

50 ft	26	5.3	✓
37 ft	17	6.2	✓
23 ft	51	2.8	✓
4	68	1.1	✓
23 ft	91	-1.2	✓
50 ft	109	-3.0	✓

131+50

50 ft	109	-3.0	✓
23 ft	98	-1.9	✓
4	83	-0.4	✓

7.9°

	7.9		
14 Pt	6.3	1.6	✓
23 Pt	22	5.7	✓
50 Pt	16	6.3	✓

132+0

50 Pt	0.8	7.1	✓
23 Pt	1.4	6.5	✓
15 Pt	1.8	6.1	✓
2	7.9	0	✓
23 Pt	10.3	-2.4	✓
50 Pt	10.1	-2.5	✓

132+50

50 Pt	10.3	-2.4	✓
23 Pt	10.5	-2.6	✓
15 Pt	8.4	-0.5	✓
3 Pt	7.2	0.7	✓
2	5.9	2.0	✓
8 Pt	2.2	5.7	✓
23 Pt	1.6	6.3	✓
50 Pt	1.6	6.3	✓

133+0

50 Pt	1.4	6.5	✓
22 Pt	2.9	5.0	✓
20 Pt	1.2	6.6	✓
2 Pt	1.8	6.1	✓
2	2.7	5.2	✓
6 Pt	5.8	2.1	✓

7.9°

	7.9		
23 Pt	8.4	-0.5	✓
34 Pt	10.3	-2.4	✓
50 Pt	10.6	-2.7	✓

133+50

50 Pt	10.6	-2.7	✓
18 Pt	7.7	0.2	✓
23 Pt	7.5	0.4	✓
10 Pt	5.5	2.4	✓
2	1.6	6.3	✓
14 Pt	1.6	6.3	✓
19 Pt	3.2	4.7	✓
23 Pt	3.3	4.6	✓
4 Pt	2.9	5.0	✓
50 Pt	1.4	6.5	✓

134+0

50 Pt	2.4	5.5	✓
23 Pt	3.6	4.3	✓
18 Pt	3.5	4.4	✓
12 Pt	1.6	6.3	✓
2	1.1	6.8	✓
7 Pt	2.0	5.9	✓
15 Pt	6.1	1.8	✓
23 Pt	6.8	1.1	✓
50 Pt	8.0	-0.1	✓

134+50

50 Pt	7.0	0.9	✓
-------	-----	-----	---

58

790

7.9

23' Lt	61	1.8	✓
15' Lt	48	3.1	✓
7' Lt	17	6.2	✓
1/2	89	7.0	✓
10' Pt	12	6.7	✓
17' Pt	39	4.0	✓
23' Pt	58	4.1	✓
50' Pt	84	5.5	✓

13570

50' Pt	28	5.1	✓
23' Pt	41	3.8	✓
17' Pt	43	3.6	✓
10' Pt	12	6.7	✓
1/2	07	7.2	✓
7' Lt	17	6.2	✓
16' Lt	57	4.4	✓
23' Lt	70	0.9	✓
50' Lt	81	-0.2	✓

1357210-FC

50' Lt	97	0.2	✓
33' Lt	72	0.7	✓
16' Lt	55	2.4	✓
7' Lt	15	6.4	✓
1/2	08	7.1	✓
9' Pt	12	6.7	✓
17' Pt	41	3.8	✓

790

7.9

23' Pt	41	3.8	✓	
50' Pt	29	5.0	✓	
TP	5.23	11.87	11.36	6.54

135739

50' Pt	71	4.8	✓
23' Pt	81	3.8	✓
15' Pt	87	3.2	✓
8' Pt	52	6.7	✓
1/2	48	7.1	✓
7' Lt	57	6.2	✓
16' Lt	10.3	1.6	✓
23' Lt	10.8	1.1	✓
50' Lt	11.7	0.2	✓

135742 - Prop. Colvert

50' Lt	11.7	0.2	✓
23' Lt	10.7	1.2	✓
1/2	92	1.7	✓
23' Pt	80	3.9	✓
50' Pt	7.3	4.6	✓

135749

50' Pt	72	4.7	✓
23' Pt	81	3.8	✓
1/2	90	1.9	✓
23' Lt	10.7	1.2	✓
50' Lt	11.7	0.2	✓

1-8-33

59

on Mon
6:17 PM 131+30
CAROL

135745
Proposed Colvert

11.87

135753

11.9

59

50 Lt	11.6	0.3 ✓
23 Lt	10.8	1.1 ✓
17 Lt	10.2	1.7 ✓
7 Lt	5.2	6.7 ✓
2	4.7	7.2 ✓
7 Pt	5.6	6.3 ✓
15 Pt	8.6	3.3 ✓
23 Pt	7.9	4.0 ✓
50 Pt	7.1	4.8 ✓

13670

50 Pt	6.1	5.8 ✓
15 Pt	7.2	4.7 ✓
23 Pt	7.3	4.6 ✓
15 Pt	7.6	4.3 ✓
9 Pt	5.4	6.5 ✓
2	4.5	7.4 ✓
8 Lt	5.4	6.5 ✓
18 Lt	10.5	1.4 ✓
23 Lt	10.9	1.0 ✓
50 Lt	11.4	0.5 ✓

136 + 3866 See Page 2

2 Levels Across Santa Fe R.R.
Moreno Blvd and Jelleff St.

See Sketch Page 45

BM	3.34	14.85	11.9	11.51
0+70 = 1/4 E. Edge Parking			0.82	14.1
0+38 = 1/4 Moreno Blvd			3.4	11.5
0+63 = 1/4 Jelleff St			3.9	11.0
0+88 = 1/4 Santa Fe Top Road			2.65	14.2
1+13			1.3	8.6
1+38 = 1/4 R of N Santa Fe			8.0	6.9
1+88			9.9	5.0
2+38			11.6	3.3
2+88			13.3	1.6
3+38			15.1	8-0.2
3+88 = 1/4 Atlantic Ex. 96+10			19.9	-5.0

SM 1103
Moreno Blvd
Sketch 45

Cross Section Line Change 165+71.95 B.C. 207+95.76 E.C.

6.00

6 Lt	76	- 1.6
2	50	+ 1.0
23 Pt	46	+ 1.4
50 Pt	36	+ 2.4
169+30		
50 Pt	20	+ 3.0
23 Pt	41	+ 1.9
15 Pt	52	+ 0.8
2	51	+ 0.9
7 Lt	65	- 0.5
23 Lt	71	- 1.1
50 Lt	87	- 2.7
169+58		
50 Lt	86	- 2.6
23 Lt	78	- 1.8
2	66	- 0.6
11 Pt	66	- 0.6
15 Pt	85	- 2.5
45 Pt	73	- 1.3
50 Pt	31	+ 2.9
169+70 = Prop Culvert		
70 Pt	78	- 1.8
50 Pt	83	- 2.3
40 Pt	78	- 1.8
23 Pt	61	- 0.1
2	65	- 0.5

6.00

Elev.

63

23 Lt	80	- 2.0
50 Lt	86	- 2.4
169+85		
50 Lt	96	- 3.6
23 Lt	77	- 1.7
2	64	- 0.4
10 Pt	54	+ 0.6
12 Pt	35	+ 2.5
23 Pt	40	+ 2.0
50 Pt	31	+ 2.9
170+0		
50 Pt	26	+ 3.4
23 Pt	32	+ 2.8
10 Pt	38	+ 2.2
2	56	+ 0.4
23 Lt	72	- 1.2
50 Lt	80	- 2.0
170+50		
50 Lt	93	- 3.3
23 Lt	80	- 2.0
18 Lt	75	- 1.5
15 Lt	42	+ 1.8
2	39	+ 2.1
23 Pt	27	+ 3.3
50 Pt	14	+ 4.4

6.00

171+0

50 Pt	0.8	+5.2
23 Pt	2.3	+3.7
1/2	3.3	+2.7
20 Lt	3.8	+2.2
23 Lt	8.6	-2.6
50 Lt	10.4	-4.4

171+50

50 Lt	10.6	-4.6
23 Lt	8.4	-2.4
15 Lt	6.8	-0.8
12 Lt	3.2	+2.8
1/2	2.9	+3.1
23 Pt	2.2	+3.8
50 Pt	11.	+4.9

172+0

50 Pt	0.8	+5.2
23 Pt	2.3	+3.7
1/2	3.1	+2.9
5 Lt	7.9	-1.9
23 Lt	10.3	-4.3
50 Lt	11.0	-5.0

172+15

50 Lt	11.1	-5.1
23 Lt	10.4	-4.9
1/2	8.1	-2.1

6.00

Elev.

5 Pt	20	+3.0
23 Pt	22	+3.8
50 Pt	0.6	+5.4

172+50

50 Pt	1.4	+4.6
23 Pt	2.3	+3.7
15 Pt	2.1	+3.4
10 Pt	9.0	-3.0
1/2	10.0	-4.0
23 Lt	11.0	-5.0
50 Lt	11.6	-5.6
TP	4.01 7.11	2.90 +3.10

173+0

50 Lt	12.2	-6.2
23 Lt	12.5	-5.4
1/2	12.0	-4.9
23 Pt - Bot Bank	11.1	-4.0
30 Pt	4.1	+3.0
50 Pt	3.8	+3.3

173+50

50 Pt	4.0	+3.1
12 Pt	4.1	+3.0
40 Pt - Bot Bank	10.0	-2.9
23 Pt	11.5	-4.4
1/2	12.1	-5.0
23 Lt	12.6	-5.5

0.01406
171+50 Pac

7/11

50 Lt	132	- 6.1
174+0		
50 Lt	13.0	- 5.9
23 Lt	12.8	- 5.7
L	12.1	- 5.0
23 Pt	11.6	- 4.5
15 Pt = Bot. Bank	9.8	- 2.7
50 Pt	8.8	+ 3.3

174+50

50 Pt	4.0	+ 3.1
18 Pt = Bot. Bank	9.9	- 2.8
23 Pt	11.7	- 4.6
L	12.2	- 5.1
23 Lt	13.0	- 5.9
50 Lt	13.2	- 6.1

175+0

50 Lt.	12.1	- 6.0
23 Lt	12.9	- 5.8
L	12.2	- 5.1
23 Pt	11.7	- 4.6
50 Pt. Bot. Bank	9.9	- 2.8

175+50

50 Pt = Bot. Bank	10.1	- 3.0
50 Pt	10.2	- 3.1
23 Pt	11.9	- 4.8
L	12.2	- 5.1

7/11

Elev.

23 Lt	13.1	- 6.0
50 Lt	13.2	- 6.1
176+0		
50 Lt	13.3	- 6.2
23 Lt	13.0	- 5.9
L	12.7	- 5.6
23 Pt	11.8	- 4.7
50 Pt = Bot. Bank	10.1	- 3.0

176+50

50 Pt. Bot. Bank	10.3	- 3.2
23 Pt	11.8	- 4.7
L	12.9	- 5.8
23 Lt	13.1	- 6.0
50 Lt	13.3	- 6.2

177+0

50 Lt	13.2	- 6.1
23 Lt	13.0	- 5.9
L	12.8	- 5.7
23 Pt	12.0	- 4.9
50 Pt = Bot. Bank	10.2	- 3.1

177+50

50 Pt. Bot. Bank	10.5	- 3.4
23 Pt	11.9	- 4.8
L	12.8	- 5.7
23 Lt	13.0	- 5.9
50 Lt	13.3	- 6.2

7.11

178+0

50 Lt	122	-6.1
23 Lt	130	-5.9
1/2	128	-5.7
23 Pt	121	-5.0
50 Pt - Bot Bank	106	-3.5
TP	748	1.88
	1271	-5.60

178+50

50 Pt - Bot Bank	52	-3.3
23 Pt	69	-5.0
1/2	75	-5.6
23 Lt	78	-5.9
50 Lt	80	-6.1

179+0

50 Lt	80	-6.1
23 Lt	79	-6.0
1/2	76	-5.7
23 Pt	69	-5.0
50 Pt	47	-2.8
52 Pt - Bot Bank	46	-2.7

179+50

59 Pt - Bot Bank	39	-2.0
50 Pt	48	-2.9
23 Pt	67	-4.8
1/2	77	-5.8
23 Lt	79	-6.0

188

		Elev
50 Lt	81	-6.2
180+0		
50 Lt	80	-6.1
23 Lt	79	-6.0
1/2	77	-5.8
23 Pt	68	-4.9
50 Pt	48	-2.9
61 Pt - Bot Bank	43	-2.4

180+50

60 Pt - Bot Bank	41	-2.2
50 Pt	48	-2.9
23 Pt	68	-4.9
1/2	78	-5.9
23 Lt	79	-6.0
50 Lt	81	-6.2

181+0

50 Lt	81	-6.2
23 Lt	79	-6.0
1/2	77	-5.8
23 Pt	68	-4.9
50 Pt	48	-2.9
60 Pt - Bot Bank	40	-2.1

181+50 = Opp. Santa Fe Arch Cuts

57 Pt - Bot Bank	43	-2.4
50 Pt	47	-2.8
23 Pt	67	-4.8

1.88

1	76	-5.7
23 Lt	79	-6.0
50 Lt	81	-6.2
182+0		
50 Lt	82	-6.3
23 Lt	76	-5.7
1	70	-5.1
23 Pt	62	-4.3
50 Pt	42	-2.3
63 Pt - Bot Bank	25	-1.6
182+50		
59 Pt - Bot Bank	45	-2.6
50 Pt	51	-3.2
23 Pt	63	-4.4
1	71	-5.2
23 Lt	72	-5.3
50 Lt	81	-6.2
183+0		
50 Lt	83	-6.4
23 Lt	80	-6.1
1	75	-5.6
23 Pt	64	-4.5
50 Pt	46	-2.7
59 Pt - Bot Bank	15	-2.6
183+50		
52 Pt - Bot Bank	16	-2.7

1.88

Elev.

07

50 Pt	46	-2.7
23 Pt	65	-4.6
1	80	-6.1
23 Lt	81	-6.2
50 Lt	82	-6.3
184+0		
50 Lt	83	-6.4
23 Lt	80	-6.1
1	79	-6.0
23 Pt	64	-4.5
50 Pt	45	-2.6
53 Pt - Bot Bank	44	-2.5
184+50		
53 Pt - Bot Bank	46	-2.7
50 Pt	46	-2.7
23 Pt	62	-4.4
1	78	-5.9
23 Lt	81	-6.2
50 Lt	83	-6.4
185+0		
50 Lt	83	-6.4
23 Lt	81	-6.2
1	79	-6.0
23 Pt	63	-4.4
50 Pt - Bot Bank	44	-2.5

188

185+50

50 Pt Bot Bank	47	-2.8
23 Pt	6.2	-4.3
2	7.8	-5.9
23 Lt	8.0	-6.1
50 Lt	8.3	-6.4

186+0

50 Lt	8.2	-6.3
23 Lt	8.1	-6.2
2	7.8	-5.9
23 Pt	6.2	-4.3
15 Pt Bot Bank	4.6	-2.7
50 Pt	0.0	+1.9

186+50

50 Pt	7.15	+3.4
10 Pt Bot Bank	4.9	-3.0
23 Pt	6.3	-4.4
2	8.0	-6.1
23 Lt	8.2	-6.3
50 Lt	8.3	-6.4

187+0

50 Lt	8.5	-6.6
23 Lt	8.1	-6.2
2	8.0	-6.1
23 Pt	6.2	-4.3
10 Pt	5.2	-3.3

188

68

TP 1241	9.46	4.83	-2.95
15 Pt		4.0	+5.5
50 Pt		4.0	+5.5

187+50

50 Pt		8.0	+7.5
10 Pt		1.6	+7.9
35 Pt Bot Bank		13.2	-3.7
23 Pt		13.2	-4.3
2		15.5	-6.0
23 Lt		15.6	-6.1
50 Lt		15.6	-6.1

188+0

50 Lt		15.9	-6.4
23 Lt		15.3	-5.8
2		15.4	-5.9
23 Pt		13.9	-4.4
39 Pt Bot Bank		10.8	-1.3
15 Pt		4.6	+4.9
50 Pt		3.9	+6.6

188+50

50 Pt		4.1	+5.4
15 Pt		6.1	+3.4
38 Pt Bot Bank		12.1	-2.9
23 Pt		14.0	-4.5
2		15.5	-6.0
23 Lt		15.6	-6.1

		9.46		
50 Lt		15.8	- 6.3	
	189+0			
50 Lt		15.9	-6.4	
23 Lt		15.7	-6.2	
1/2		15.4	-5.9	
23 Pt		14.1	-4.6	
10 Pt - Bot Bank		12.4	-2.9	
15 Pt		5.5	+4.0	
50 Pt		4.5	+5.0	
	189+50			
50 Pt		1.2	+5.3	
10 Pt - Bot		11.3	-1.8	
23 Pt		14.7	-5.2	
1/2		15.4	-5.9	
23 Lt		15.8	-6.3	
50 Lt		16.0	-6.5	
	190+0			
50 Lt		15.9	-6.4	
23 Lt		15.9	-6.4	
1/2		15.1	-6.1	
23 Pt		14.9	-5.4	
10 Pt = Bot		12.1	-2.6	
50 Pt		5.0	+4.5	
TP	1.19	9.76	0.89	+8.57✓
	190+50			
50 Pt		4.8	+5.0	

		9.76	Elev.
50 Pt		7.5	+2.3
11 Pt - Bot Bank		13.2	-3.4
23 Pt		14.8	-5.0
1/2		15.9	-6.1
23 Lt		16.1	-6.3
50 Lt		16.2	-6.4
	191+0		
50 Lt		16.2	-6.4
23 Lt		16.0	-6.2
1/2		15.9	-6.1
23 Pt		15.5	-5.7
15 Pt - Bot Bank		12.4	-2.6
50 Pt		6.1	+3.7
	191+50		
50 Pt - Bot Bank		12.4	-2.6
23 Pt		15.0	-5.2
1/2		16.0	-6.2
23 Lt		16.2	-6.4
50 Lt		16.4	-6.6
	192+0		
50 Lt		16.5	-6.7
23 Lt		16.1	-6.3
1/2		16.1	-6.3
23 Pt		15.5	-5.7
50 Pt - Bot Bank		13.4	-3.6

926

192+50

55 Pt. Bot Bank	117	-1.9
50 Pt	133	-3.5
23 Pt	157	-5.9
2	162	-6.4
23 Lt	162	-6.4
50 Lt	163	-6.5

193+0

50 Lt	165	-6.7
23 Lt	163	-6.5
2	160	-6.2
23 Pt	156	-5.8
50 Pt	135	-3.7
65 Pt. Bot Bank	124	-2.6
TP	502	1.74
	1304	-3.28

193+50

68 Pt. Bot	47	-3.0
50 Pt	56	-3.9
23 Pt	75	-5.8
2	80	-6.3
23 Lt	82	-6.5
50 Lt	84	-6.7

194+0

50 Lt	84	-6.7
23 Lt	82	-6.5
2	81	-6.4

1.74

Elev.

70

23 Pt	75	-5.8
50 Pt	53	-3.6
68 Pt. Bot Bank	45	-2.8

194+50

70 Pt. Bot Bank	37	-2.0
50 Pt	50	-3.3
23 Pt	71	-5.4
2	78	-6.1
23 Lt	82	-6.5
50 Lt	84	-6.7

195+0

50 Lt	84	-6.7
23 Lt	82	-6.5
2	78	-6.1
23 Pt	73	-5.6
50 Pt	47	-3.0
68 Pt. Bot Bank	42	-2.5

195+50

65 Pt. Bot Bank	38	-2.1
50 Pt	51	-3.4
23 Pt	74	-5.7
2	79	-6.2
23 Lt	82	-6.5
50 Lt	84	-6.7

195+25-OPP
Santa Fe
Cone Culvert

Sept 30 32
Silver
Henderson
Henderson 71

	1974		
	196+0		
50 Lt	83	-6.6	
23 Lt	81	-6.4	
1/2	79	-6.2	
23 Pt	73	-5.6	
50 Pt	52	-3.5	
63 Pt - Bot Bank	44	-2.7	
	196+50		
64 Pt - Bot Bank	42	-2.5	
50 Pt	51	-3.9	
23 Pt	72	-5.5	
1/2	79	-6.2	
23 Lt	81	-6.4	
50 Lt	83	-6.6	
	197+0		
50 Lt	83	-6.6	
23 Lt	81	-6.4	
1/2	79	-6.2	
23 Pt	69	-5.2	
50 Pt	49	-3.2	
59 Pt - Bot Bank	45	-2.8	
	197+50		
60 Pt - Bot Bank	35	-1.8	
50 Pt	45	-2.8	
23 Pt	68	-5.1	
1/2	80	-6.3	

	1974	Elev.	
23 Lt	82	-6.5	
50 Lt	82	-6.6	
	198+0		
50 Lt	82	-6.5	
23 Lt	76	-5.9	
1/2	76	-5.9	
23 Pt	61	-4.4	
50 Pt	43	-2.6	
55 Pt - Bot Bank	43	-2.6	
	198+50 = opp 12' Core Ppt Across old P.P.		
56 Pt - Bot Bank	45	-2.8	
50 Pt	47	-3.0	
23 Pt	56	-3.9	
1/2	67	-6.0	
23 Lt	73	-5.6	
50 Lt	81	-6.4	
	199+0		
50 Lt	78	-6.1	
23 Lt	77	-6.0	
1/2	75	-5.8	
23 Pt	55	-3.8	
50 Pt - Bot Bank	25	-0.8	
TP	831	810'	195
	199+50		
50 Pt	44	+3.7	
15 Pt - Bot	92	-1.1	

50 Pt
19920

8/10

23 Rt	115	-3.4
2	135	-5.4
23 Lt	143	-6.2
50 Lt	142	-6.1

200+0

50 Lt	143	-6.2
23 Lt	139	-5.8
2	128	-4.7
23 Rt	110	-2.9
30 Rt. Bot Bank	101	-2.0
35 Rt	11	+4.0
50 Rt	30	+5.1

200+50

50 Rt	28	+5.3
32 Rt	42	+3.9
26 Rt	102	-2.1
23 Rt	108	-2.7
2	121	-4.0
23 Lt	140	-5.9
50 Lt	142	-6.1

201+0

50 Lt	143	-6.2
23 Lt	136	-5.5
2	117	-3.6
23 Rt	97	-1.6
28 Rt	54	+2.7

8/10

72

40 Rt	31	Elev +5.0
50 Rt	205	+5.8

201+50

50 Rt	21	+6.0
35 Rt	32	+4.9
23 Rt	42	+3.9
16 Rt	48	+3.3
11 Rt	98	-1.7
2	110	-2.9
23 Lt	129	-4.8
50 Lt	141	-6.0

202+0

50 Lt	123	-4.2
23 Lt	113	-3.2
2	99	-1.8
11 Rt	92	-1.1
14 Rt	63	+1.8
23 Rt	56	+2.5
30 Rt	38	+5.3
50 Rt	1.9	+6.2

202+50

50 Rt	18	+6.3
23 Rt	36	+4.5
20 Rt	65	+1.6
2	80	+0.1
23 Lt	93	-1.2

810

50 Lt		11.4	-3.3
	203+0		
50 Lt		11.4	-3.3
23 Lt		10.3	-2.2
L		8.7	-0.6
12 Pt		6.8	+1.5
23 Pt		2.1	+6.7
50 Pt		10	+7.1
	203+50		
50 Pt		12	+6.9
23 Pt		17	+6.4
15 Pt		28	+5.3
L		8.0	+0.1
23 Lt		10.5	-2.4
50 Lt		10.8	-2.7
	204+0		
50 Lt		11.0	-2.9
23 Lt		10.4	-2.3
10 Lt		8.6	-0.5
L		6.9	+1.2
9 Pt		2.7	+5.4
23 Pt		2.0	+6.1
35 Pt		2.7	+5.4
50 Pt		2.1	+6.0

810

Elev

73

	204+50			
50 Pt		2.9	+6.3	
35 Pt		3.3	+4.8	
23 Pt		1.7	+6.4	
5 Pt		2.2	+5.9	
L		5.4	+2.7	
5 Lt		6.9	+1.2	
23 Lt		8.7	-0.6	
50 Lt		10.7	-2.6	
	205+0			
50 Lt		10.4	-2.3	
10 Lt		8.0	+0.1	
23 Lt		7.8	+0.3	
9 Lt		6.1	+2.0	
L		2.2	+5.9	
20 Pt		1.6	+6.5	
23 Pt		3.5	+4.6	
50 Pt		3.4	+4.7	
9 Pt	4.77	11.53 ✓	1.34	+6.76 ✓
	205+50			
50 Pt		6.4	+5.1	
23 Pt		7.1	+4.1	
15 Pt		4.9	+6.6	
L		5.2	+6.3	
10 Lt		9.0	+2.5	
23 Lt		10.6	+0.9	

1153

50 Lt		11.8	- 0.3
	206+40		
50 Lt		10.9	+ 0.6
23 Lt		10.3	+ 1.2
12 Lt		8.8	+ 2.7
5 Lt		5.5	+ 6.0
8		4.9	+ 6.6
13 Pt		5.2	+ 6.3
20 Pt		7.8	+ 3.7
23 Pt		7.7	+ 3.8
50 Pt		6.1	+ 5.4

206+50

50 Pt		6.8	+ 4.7
23 Pt		7.8	+ 3.7
18 Pt		7.9	+ 3.6
12 Pt		5.1	+ 6.4
8		4.6	+ 6.9
5 Lt		5.2	+ 6.3
15 Lt		9.7	+ 1.8
12 Lt		10.9	+ 0.6
50 Lt		11.8	- 0.3

206+75

50 Lt		11.5	0.0
23 Lt		10.6	+ 0.9
15 Lt		10.0	+ 1.5
5 Lt		5.1	+ 6.4

1153

Elev.

8		4.6	+ 6.9
8 Pt		4.9	+ 6.6
15 Pt		8.4	+ 3.1
23 Pt		8.0	+ 3.5
50 Pt		7.2	+ 4.3
	206+85 = Prop. Culvert		
50 Pt		7.2	+ 4.3
23 Pt		8.2	+ 3.3
8		8.9	+ 2.6
23 Lt		10.8	+ 0.7
50 Lt		11.5	0.0

206+93

50 Lt		11.4	+ 0.1
23 Lt		10.6	+ 0.9
18 Lt		10.0	+ 1.5
4 Lt		4.9	+ 6.6
8		4.5	+ 7.0
7 Pt		5.0	+ 6.5
16 Pt		8.5	+ 3.0
23 Pt		8.0	+ 3.5
50 Pt		7.2	+ 4.3

207+0

50 Pt		7.2	+ 4.3
23 Pt		8.0	+ 3.5
16 Pt		8.5	+ 3.0
7 Pt		5.0	+ 6.5

11.53

75

2	4.5	+7.0
4 Lt	4.9	+6.6
18 Lt	10.0	+1.5
23 Lt	10.6	+0.9
50 Lt	11.4	+0.1

207+150

50 Lt	9.9	+1.6
23 Lt	10.8	+0.7
17 Lt	9.3	+2.2
7 Lt	4.9	+6.6
2	4.2	+7.3
10 Pt	5.0	+6.5
15 Pt	7.3	+4.2
23 Pt	7.2	+4.3
50 Pt	6.0	+5.5

207+9576 FS

50 Pt	5.5	+6.0
23 Pt	7.0	+4.5
15 Pt	6.7	+4.8
10 Pt	4.9	+6.6
2 07 Feb	4.2	+7.41
8 Lt	4.9	+6.6
15 Lt	7.0	+4.5
23 Lt	7.2	+4.2
50 Lt	7.9	+3.6
BM	5.06	6.47

07 Nov
 5 Pt 207+70
 6.43 207+70

77

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway slope 1 1/2 to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body

from side stake to slope stake. If ground is not level, the side stake and slope stake lower stake by the amount if cut, elevate if fill. Add this amount to cut or fill and distance in table. Set up rod at this point and line of sight should cut target. If necessary.

**IMPROVED TABLES
AND
INFORMATION**

TABLE No. 2.

To find Tangent and External for curve of any other degree, divide by degree of curve and add correction found in column of corrections. Degree of curve with a given L may be found by dividing tangent (or external), opposite L by given tangent (or external). The distance from a point on the tangent to the curve is very nearly the square of the tangent length divided by twice the radius.

