

1138

DEZIGEN  
DESIGN

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ENGINEERS

FIELD BOOK

No. 404

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# EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and  
SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto

Distances from Center of Roadway for Cross-Sectioning  
Roadway 16 feet wide. Side Slopes 1 on 1.  
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	II
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be  $30.6 + (20 - 16) \div 2$  or 2 ft. added to  $30.6 = 32.6$ . For slopes of 1 on  $1\frac{1}{2}$  see inside of back cover.

Copyright, 1914, by Eugene Dietzgen Co.

60' wide  
10' deep  
10' high

Herbert St X Sec.  
From S Line Robinson to N Line

7/16/25  
Miller

R.M. 134 295.39 294.05 Robinson  
No. 5-10000

00' S Line Robinson

E 0.0

+5 2.5

cl 2.2

1/4 2.2

C 2.0

1/4 2.3

cl 3.25

cl 2.0

W 2.7

15' S

W 2.6

cl 2.6

1/4 2.0

C 2.0

1/4 2.0

cl 1.4

+5 1.4

E 0.0

20' S

E 0.9

+5 1.5

cl 1.7

42' S = N end of Double Garage, dirt floor 16' X 20'

That is in the street

295.39

65' S

E 2.1

cl 3.5

1/4 3.7

C 4.0

1/4 4.0

cl 3.9

W 4.2

75' S

W 9.7

cl 8.8

1/4 7.0

C 8.3

1/4 8.0

cl 3.5

E 2.8

90' S

E 3.9

cl 5.3

1/4 11.5

E 14.6

1/4 15.0

cl 15.9

T.P. 5.94

289.45

Use former notes from here south. R.N.6.

UNIV. Ave. X Section

SMITH rd.  
BX. 57 101199

13.19 326.22 313.03

425' E FL LEMONH

S	30+52 <sup>22</sup>	13.1	13.1
cb		12.9	13.3
1/4		13.7	12.5
C	30+54 <sup>33</sup>	15.8	10.4
1/4		16.6	09.6
cb		17.6	08.6
N	30+52 <sup>43</sup>	18.1	08.1
+10		17.4	08.8

450' E

-10		16.1	10.1
N	30+77 <sup>43</sup>	15.5	10.7
cb		14.4	11.8
1/4		13.6	12.6
C	30+77 <sup>33</sup>	12.6	13.6
+2		12.6	13.6
+5		13.4	12.6
1/4		11.7	14.5
cb		11.0	15.2
S	30+77 <sup>22</sup>	11.2	15.0

475' E

S	31+04 <sup>22</sup>	10.0	16.2
cb		10.2	16.0
1/4		10.6	15.6
+4		12.6	13.6

see book 1131

346.77

+7		11.4	314.8
c	31+04 <sup>33</sup>	11.6	14.6
1/4		12.2	14.0
cb		12.4	13.6
N	31+04 <sup>43</sup>	12.9	13.3
+10		13.1	13.1
500' E			
-10		12.0	14.2
N	31+27 <sup>43</sup>	11.5	14.7
cb		11.2	15.0
1/4		11.0	15.2
c	31+27 <sup>33</sup>	10.6	15.6
+3		11.1	15.1
+6		10.4	15.8
1/4		10.1	16.1
cb		9.6	16.6
S	31+27 <sup>22</sup>	9.5	16.7
525' E			
S	31+52 <sup>22</sup>	9.2	17.0
cb		9.3	16.9
1/4		10.0	16.2
C	31+52 <sup>33</sup>	10.3	15.9
1/4		10.9	15.3
cb		11.2	15.0
N	31+52 <sup>43</sup>	11.8	14.4
+10		12.3	13.9

550 E			
-10		346.77	11.1 15.1
N	31+77	<sup>43</sup>	10.8 15.4
cb			10.5 15.7
1/4			10.1 16.1
C	31+77	<sup>33</sup>	9.5 16.7
1/4			9.3 16.9
cb			8.8 17.4
S	31+77	<sup>22</sup>	8.6 17.6

575 E			
S	32+07	<sup>22</sup>	7.7 18.5
cb			7.8 18.4
1/4			8.2 18.0
C	32+07	<sup>33</sup>	8.5 17.7
1/4			8.8 17.4
cb			9.4 16.8
N	32+07	<sup>43</sup>	9.7 16.5
+10			10.0 16.2

590 E WL Shiloh rd.			
-10			8.8 17.4
N	32+17	<sup>43</sup>	8.7 17.5
cb			8.4 17.9
1/4			8.0 18.2
C	32+17	<sup>33</sup>	7.4 18.8
1/4			7.2 19.0
cb			7.1 19.1
S	32+17	<sup>22</sup> WL Shiloh	7.0 19.2

346.77 3

W cbs Shiloh rd.

S	32+77	<sup>22</sup>	6.4 19.8
cb			6.5 19.7
1/4			6.7 19.5
C	32+27	<sup>33</sup>	6.9 19.3
1/4			7.4 18.8
cb			7.7 18.5
N	32+27	<sup>43</sup>	8.0 18.2
+10			8.0 18.2
W 1/4			
-10			7.5 18.7
N	32+34	<sup>43</sup>	7.4 18.8
cb			7.2 19.0
1/4			7.1 19.1
C	32+34	<sup>83</sup>	6.5 19.7
1/4			6.4 19.8
cb			6.0 20.2
S	32+34	<sup>22</sup>	5.9 20.3
1/4			
S	32+42	<sup>22</sup>	5.4 20.8
cb			5.5 20.7
1/4			6.0 20.2
C	32+42	<sup>33</sup>	6.1 20.1
1/4			6.6 19.6
cb			6.7 19.5
N	32+42	<sup>43</sup>	6.9 19.3
+10			7.0 19.2

326.42  
E 14

-10			6.6	19.6
N	32+49	<sup>23</sup>	6.5	19.7
cb			6.3	19.9
1/4			6.1	20.1
C	32+49	<sup>83</sup>	5.8	20.4
1/4			5.5	20.7
+3			4.9	21.3
cb			5.0	21.2
S	32+49	<sup>72</sup>	4.9	21.3
		E cbs		
S	32+57	<sup>22</sup>	4.3	21.9
cb			4.3	21.9
+8			4.2	22.0
1/4			4.8	21.4
C	32+57	<sup>33</sup>	5.1	21.1
1/4			5.5	20.7
cb			5.8	20.4
N	32+57	<sup>43</sup>	6.2	20.0
+10			6.3	19.9
0+00	= EL Shiloh rd on South			
-10			5.7	20.5
N	32+67	<sup>43</sup>	5.6	20.6
cb			5.2	21.0
1/4			4.8	21.4
C	32+67	<sup>33</sup> ✓	4.4	21.8

4

1/4	326.22		3.8	22.4
+2			3.3	22.9
cb			3.4	22.8
S	32+67	<sup>22</sup> EL Shiloh	3.6	22.6
		25' E		
S	32+92	<sup>22</sup>	1.4	24.8
cb			1.2	25.0
+8			1.0	25.2
1/4			1.7	24.5
C	32+92	<sup>33</sup>	2.5	23.7
1/4			3.2	23.0
cb			3.7	22.5
N	32+92	<sup>43</sup>	4.3	21.9
+10			4.6	21.6
		50' E		
-10			3.4	22.8
N	33+17	<sup>43</sup>	3.0	23.2
cb			2.3	23.9
1/4			1.5	24.7
C	33+17	<sup>33</sup>	0.7	25.5
T.P.	11.76	337.87-HE	0.11	326.11
1/4			11.1	26.8
+3			10.2	27.7
cb			10.4	27.5
S	33+17	<sup>22</sup>	10.6	27.3
		75' E		

337.87

S	33+42 <sup>22</sup>	8.4	29.5
cb		8.1	29.8
+8		8.3	29.6
1/4		9.0	28.9
C	33+42 <sup>33</sup>	9.9	28.0
1/4		11.0	26.9
cb		11.5	26.4
N	33+42 <sup>43</sup>	12.1	25.8
+15		14.1	23.8

100' E

-15		12.1	25.8
N	33+67 <sup>13</sup>	10.7	27.2
cb		10.0	27.9
1/4		9.3	28.6
C	33+67 <sup>33</sup>	8.1	29.8
+5		7.7	30.2
1/4		6.2	31.7
cb		6.0	31.9
+7		6.2	31.7
S	33+67 <sup>22</sup>	4.6	33.3

125' E

S	33+92 <sup>22</sup>	1.6	36.3
+5		4.1	33.8
cb		3.9	34.0
1/4		4.2	33.7
+2		4.3	33.6

5

+5	337.87	5.7	32.2
C	33+92 <sup>33</sup>	6.3	31.6
1/4		7.2	30.7
cb		8.0	29.9
N	33+92 <sup>43</sup>	8.7	29.2
+15		10.0	27.9

150' E

-15		7.7	30.2
N	34+17 <sup>43</sup>	7.1	30.8
cb		6.4	31.5
1/4		5.5	32.4
C	34+17 <sup>33</sup>	4.4	33.5
1/4		2.5	35.4
cb		2.5	35.4
+5		2.5	35.4
S	34+17 <sup>22</sup>	0.2	37.7

175' E

T.F.	450	1.48	336.39 ✓	
S	34+42 <sup>22</sup>	342.89 ✓	4.8	38.1
+6		6.5	36.4	
cb		6.3	36.6	
1/4		6.4	36.5	
C	34+42 <sup>33</sup>	7.8	35.1	
1/4		8.7	34.2	
cb		9.6	33.3	
N	34+42 <sup>43</sup>	10.1	32.8	
+10		10.5	32.4	

200' E

-10?	34489	8.3	34.6
N	34+67 <sup>43</sup>	7.8	35.1
C6		7.3	35.6
1/4		6.8	36.1
C	34+67 <sup>33</sup>	6.0	36.9
1/4		5.2	37.7
C6		5.2	37.7
+3		5.3	37.6
S	34+67 <sup>22</sup>	4.0	38.9
	225' E	-	
S	34+92 <sup>22</sup>	3.2	39.7
+6		4.1	38.8
C6		4.1	38.8
1/4		4.0	38.9
C	34+92 <sup>33</sup>	4.5	38.4
1/4		5.1	37.8
C6		5.9	37.0
N	34+92 <sup>43</sup>	6.8	36.1
+15		7.8	35.1
	250' E		
-15		9.1	33.8
N	35+17 <sup>43</sup>	7.4	35.5
C6		6.3	36.6
1/4		5.2	37.7
C	35+17 <sup>33</sup>	3.6	39.3
+6		2.6	40.3
1/4		2.9	40.0

6

C6	342.09=HI	3.2	39.7
+3		3.1	39.8
S	35+17 <sup>22</sup>	1.8	41.1
T.P.T.	8.30 341.29	9.90	332.99
	275' E		
S	35+42 <sup>22</sup>	0.5	40.8
+8		3.1	38.2
C6		3.1	38.2
1/4		3.0	38.3
C	35+42 <sup>33</sup>	3.6	37.7
1/4		5.4	35.9
C6		6.6	34.7
N	35+42 <sup>43</sup>	7.8	33.5
+15		9.7	31.6
	300' E		
-15		11.9	29.3
N	35+67 <sup>43</sup>	10.9	31.0
C6		9.0	32.3
1/4		8.2	33.1
C	35+67 <sup>33</sup>	6.8	34.5
+5		5.9	35.4
1/4		6.0	35.3
C6		6.1	35.2
+3		5.9	35.4
S	35+67 <sup>22</sup>	4.0	37.3
	325' E		



341.29

S	35+9 <sup>22</sup>	77	33.6
+7		9.5	31.8
cb		9.5	31.8
1/4		9.3	32.0
C	35+9 <sup>33</sup>	10.2	31.1
1/4		11.5	29.8
cb		12.3	29.0
N	35+9 <sup>43</sup>	13.0	28.3
+15		14.2	27.1
Sec taken at 3+55.75 = P.C. 3+47.41 = New P.C.			
-10		16.6	24.7
36+14 <sup>84</sup>	N (36+23 <sup>18</sup> PC 430R)	16.1	25.2
cb		15.4	25.9
1/4		14.6	26.7
New 7 <sup>74</sup>	36+14 <sup>74</sup> C (36+23 <sup>08</sup> PC 400R)	14.1	27.2
+4		14.1	27.2
+8		12.6	28.7
1/4		12.6	28.7
cb		12.9	28.4
36+14 <sup>63</sup>	S (36+22 <sup>97</sup> PC 370R)	12.4	28.9
T.P.	1.49 330.12	12.66	328.63
Part 1			
36+14 <sup>304</sup>	S (36+51 <sup>245</sup> )	3.6	26.5
+3		4.3	25.8
cb		4.0	26.1
1/4		3.4	26.7
+2		3.3	26.8

7

+6	330.12	4.7	25.4
36+15 <sup>46</sup>	C (36+53 <sup>66</sup> )	4.9	25.2
1/4		5.5	24.6
cb		6.2	23.9
36+17 <sup>86</sup>	N (36+56 <sup>85</sup> )	6.5	23.6
+10		6.6	23.5
PART 2			
-10		8.5	21.6
36+80 <sup>89</sup>	N (36+88 <sup>92</sup> )	8.3	21.8
cb		8.3	21.8
36+76 <sup>18</sup>	C (36+84 <sup>24</sup> )	7.8	22.3
1/4		7.5	22.6
+4		7.2	22.9
+8		5.8	24.3
1/4		5.8	24.3
cb		6.2	23.9
+7		6.8	23.3
36+71 <sup>46</sup>	S (36+79 <sup>54</sup> )	6.0	24.1
PART 3			
36+99 <sup>87</sup>	S (37+07 <sup>82</sup> )	7.4	22.7
+2		8.2	21.9
cb		7.9	22.2
1/4		7.9	22.2
+3		8.5	21.6
37+06 <sup>90</sup>	C (37+14 <sup>81</sup> )	8.7	21.4
1/4		9.1	21.0
cb		9.4	20.7

37+13<sup>91</sup>N (37+21<sup>80</sup>) 3301v 9.7 70.4  
+10 9.7 70.4

Part 4

-10 11.0 19.1

37+46<sup>94</sup>N (37+54<sup>67</sup>) 11.5 18.6

c6 10.8 19.3

1/4 11.0 19.1

37+37<sup>65</sup>C (37+45<sup>39</sup>) 10.7 19.4

+8 10.3 19.8

1/4 10.0 20.1

+4 9.3 20.8

c6 9.5 20.6

37+28<sup>29</sup>S (37+36<sup>11</sup>) 9.6 20.5

PART 5 = E.C.

37+56<sup>20</sup>S (37+64<sup>39</sup> EC 370R) 11.6 18.5

c6 11.7 18.4

+3 11.3 18.8

+6 12.1 18.0

1/4 12.5 17.6

37+68<sup>33</sup>C (37+75<sup>97</sup> EC 400R) 13.1 17.0

1/4 13.4 16.7

c6 13.2 16.9

+8 13.3 16.8

37+79<sup>25</sup>N (37+87<sup>54</sup> EC 430R) 12.5 17.6

25' East of EC

38+04<sup>95</sup>N (38+12<sup>54</sup>) 14.4 15.7

✓

+8 3301v 16.2 13.9

-c6 15.7 14.4

1/4 15.9 14.2

+5 16.2 13.9

37+93<sup>33</sup>C (38+00<sup>27</sup>) 15.3 14.8

1/4 14.0 16.1

+6 13.5 16.6

c6 13.7 16.4

37+81<sup>70</sup>S (37+89<sup>39</sup>) 13.4 16.7

T.P. 0.95 319.28 11.79 315.33

50' E of EC

38+06<sup>20</sup>S (38+14<sup>39</sup>) 5.0 14.3

+3 4.9 14.4

c6 4.9 14.4

1/4 5.5 13.8

38+18<sup>33</sup>C (38+25<sup>92</sup>) 5.8 13.5

1/4 7.2 12.1

+3 7.3 12.0

c6 6.0 13.3

38+29<sup>25</sup>N (38+37<sup>54</sup>) 5.1 14.2

79.44 E of EC - WL Radio rd on North

38+67<sup>84</sup>N (38+66<sup>98</sup>) 6.5 12.8

c6 7.5 11.8

1/4 8.9 10.4

+3 9.2 10.1

38+56<sup>23</sup>C (38+55<sup>41</sup>) 9.1 10.2

✓

1/4	319.78	8.1	11.2
+4		7.7	11.6
+7		7.2	12.1
cb		7.2	12.1
38+44 <sup>5</sup>	(38+43 <sup>83</sup> )	7.5	11.8
Sections taken diagonally 103.52' E of EC = WL Radio rd on South			
38+68 <sup>69</sup>	38+68 <sup>69</sup> ✓	9.2	10.1
cb		8.6	10.7
+3		8.5	10.8
+4		9.3	10.0
1/4		9.4	09.9
C	38+68 <sup>27</sup>	10.0	09.3
+6		10.3	09.0
1/4		9.0	10.3
cb		7.6	11.7
N	38+67 <sup>84</sup>	6.4	12.9
(+10 <sup>78</sup> )	cb.		
N	38+78 <sup>62</sup>	7.3	12.0
cb		8.1	11.2
+9		8.9	10.4
1/4		9.5	09.8
C	38+79 <sup>05</sup>	9.9	09.4
+7		10.5	08.8
1/4		10.0	09.3
+6		9.4	09.9
cb		9.0	10.3
+3		8.8	10.5

5	38+79 <sup>47</sup>	319.78	9.2	10.1
	1/4 <sup>5</sup>			
S	38+87 <sup>55</sup>		9.5	09.8
+6			9.2	10.1
cb			9.3	10.0
1/4			9.6	09.7
C	38+87 <sup>13</sup>		9.5	09.8
1/4			9.1	10.2
cb			8.7	10.6
N	38+86 <sup>70</sup>		8.0	11.3
Center line radio rd.				
N	38+94 <sup>78</sup>		7.5	11.9
cb			8.3	11.0
1/4			8.9	10.4
C	38+95 <sup>21</sup>		9.5	10.0
1/4			9.4	09.7
cb			9.9	09.4
S	38+95 <sup>63</sup>		9.8	09.5
East 1/4				
S	39+03 <sup>71</sup>		10.6	08.7
cb			10.5	08.8
1/4			10.2	09.1
C	39+03 <sup>29</sup>		9.8	09.5
1/4			9.3	10.0
cb			8.7	10.6
N	39+02 <sup>86</sup>		8.1	11.2

East cb

N	3910 <sup>24</sup>	31978	8.7	10.6
cb			10.0	09.3
1/4			11.0	08.3
C	39+11	<u>37</u>	11.8	07.5
1/4			12.5	06.8
cb			12.6	06.7
+6			11.7	07.6
S	39+11	<u>79</u>	11.8	07.5

E Line Radio Road

S	39+22	<u>58</u> ✓	13.0	06.0
+4			13.8	05.5
cb			13.4	05.9
1/4			13.4	05.9
C	39+22	<u>16</u> ✓	13.0	06.3
+7			12.3	07.0
1/4			11.8	07.5
cb			10.0	09.3
N	39+21	<u>73</u> ✓	9.0	10.3

SP. NW radio rd

313.82

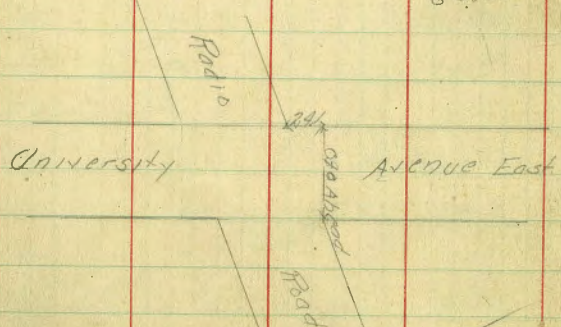
0.10

313.92

5.49

313.79

check on E N N radio rd  
313.92



Cross Section University Avenue

East Radio Road

60' x 40'  
10' Cbs  
16 Qts

0.175  
5.050  
Radio rd  
8.25  
3.25

313.92

			E Line Radio Road on South		10
			0+0 = 44.0		
N	39+45	<u>83</u> = 00	47	09.2	
cb			55	08.4	
1/4			71	06.8	
S	39+34	<u>21</u> = 0+00	81	05.8	
1/4			82	05.7	
cb			84	05.5	
S	39+72	<u>58</u> = 00	72	26.1	
			25'E		
S	39+47	<u>58</u>	9.4	04.5	
cb			99	04.0	
1/4			100	03.9	
S	39+59	<u>21</u>	9.3	04.6	
1/4			8.4	05.5	
cb			7.6	06.3	
N	39+70	<u>83</u>	6.9	07.0	
			50'E		
N	39+95	<u>83</u>	8.5	05.4	
cb			8.9	05.0	
1/4			9.6	04.3	
S	39+84	<u>21</u>	10.6	03.3	
1/4			10.6	03.3	
cb			10.5	03.4	
S	39+72	<u>58</u>	10.8	03.1	
			75'E		

✓

31392

S	39+97 <sup>58</sup>	13.5	300.4
CB		11.3	02.6
1/4		11.1	02.8
E	40+09 <sup>21</sup>	11.7	02.2
1/4		11.9	02.0
CB		12.0	01.9
N	40+20 <sup>83</sup>	11.4	02.5
	100'E		
N	40+45 <sup>83</sup>	11.6	02.3
CB		12.0	01.9
1/4		12.2	01.7
+L	14" Dia 2-1/2" Corq 100' Pipe Flow 21" pipe	12.39	301.53
CB	40+34 <sup>21</sup>	11.4	02.5
+2		11.1	02.8
1/4		11.3	02.6
+4		11.3	02.6
+L	S Fed 2-1/2" Corq 100' Pipe Flow 21" pipe	12.11	300.81
CB		13.3	300.6
S	40+22 <sup>58</sup>	13.6	300.3
	125'E		
S	40+47 <sup>58</sup>	14.0	299.9
CB		13.3	300.6
1/4		11.9	302.0
E	40+59 <sup>21</sup>	11.4	302.5
1/4		11.8	302.1

109E.0AS  
MAY 20 13.0N  
Subline

31392

1/4		11.8	302.1
CB		10.7	303.2
N	40+70 <sup>83</sup>	9.5	304.4
	150'E		
N	40+95 <sup>83</sup>	8.6	305.3
CB		9.6	304.3
1/4		10.2	303.7
E	40+84 <sup>21</sup>	11.0	302.9
1/4		11.8	302.1
CB		12.4	301.5
S	40+72 <sup>58</sup>	13.0	300.9
	175'E		
S	40+97 <sup>58</sup>	12.6	301.3
+5		12.3	301.6
CB		11.7	302.2
1/4		11.4	302.5
E	41+09 <sup>21</sup>	10.5	303.4
1/4		9.8	304.1
CB		8.6	305.3
N	41+20 <sup>83</sup>	7.8	306.1
	200'E		
N	41+45 <sup>83</sup>	7.8	306.7
CB		8.6	305.3
1/4		10.0	303.9
E	41+34 <sup>21</sup>	10.6	303.3

		313.9A	
1/4		11.2	302.7
CB		11.8	302.1
S	41+22 <sup>58</sup>	12.1	301.8
		225'E	
S	41+47 <sup>58</sup>	12.4	301.5
CB		12.0	301.9
1/4		11.3	302.6
E	41+59 <sup>21</sup>	10.8	303.1
1/4		10.9	303.0
CB		10.5	303.4
+5		9.0	304.9
N	41+70 <sup>83</sup>	8.1	305.8
		250'E	
N	41+95 <sup>83</sup>	9.8	304.1
CB		10.8	303.1
1/4		11.5	302.4
E	41+84 <sup>21</sup>	11.5	302.4
1/4		12.1	301.8
CB		12.8	301.1
S	41+72 <sup>58</sup>	13.3	300.6
		275'E	
S	41+97 <sup>58</sup>	14.0	299.9
CB		13.3	300.6
1/4		13.0	300.9
E	42+09 <sup>21</sup>	12.8	301.1

✓

		313.9A	
1/4		12.7	301.2
CB		12.1	301.8
+5		11.6	302.3
+7		10.5	303.4
N	42+20 <sup>83</sup>	10.3	303.6
TP	1.35	502.33	12.94
		300'E	
N	42+45 <sup>83</sup>	0.0	302.3
+3		0.2	302.1
CB		1.8	300.5
1/4		2.0	300.3
E	42+34 <sup>21</sup>	2.4	299.9
1/4		2.8	299.5
CB		3.0	299.3
S	42+22 <sup>58</sup>	3.9	298.4
		325'E	
S	42+47 <sup>58</sup>	4.5	297.8
CB		4.0	298.3
1/4		3.9	298.4
E	42+59 <sup>21</sup>	3.6	298.7
1/4		3.1	299.2
CB		2.1	300.2
N	42+70 <sup>83</sup>	1.9	300.6
		340'E	
N	42+85 <sup>83</sup>	1.9	300.4

✓

	302.33		
CB		2.5	299.8
1/4		3.5	298.8
2	42+74 <sup>21</sup>	4.0	298.3
1/4		4.5	297.8
CB		4.6	297.7
S	42+62 <sup>58</sup>	5.0	297.3
	350'E		
S	42+72 <sup>58</sup>	5.5	296.8
CB		4.9	297.4
1/4		4.9	297.4
2	42+80 <sup>21</sup>	4.3	298.0
1/4		4.0	298.3
CB		3.0	299.3
1/4		3.7	298.6
N	42+95 <sup>83</sup>	4.0	298.3
	375N		
N	43+20 <sup>83</sup>	4.3	298.0
CB		3.8	297.5
1/5		5.0	297.3
1/4		4.5	297.8
2	43+09 <sup>21</sup>	5.0	297.3
1/4		5.0	297.3
CB		5.3	297.0
S	42+97 <sup>58</sup>	6.0	296.3
	400'E		

✓

	302.33		
S	43+22 <sup>58</sup>	6.3	296.0
CB		6.3	296.0
1/4		5.7	296.6
2	43+34 <sup>21</sup>	5.4	296.9
1/4		5.2	299.1
CB		5.3	297.0
N	43+45 <sup>83</sup>	4.8	297.5
	420'E		
N	43+65 <sup>83</sup>	4.2	298.0
CB		5.0	297.3
1/4		5.6	296.7
2	43+54 <sup>21</sup>	5.7	296.6
1/4		6.2	296.1
CB		6.3	296.0
S	43+42 <sup>58</sup>	6.9	295.4
	450'E		
S	43+92 <sup>58</sup>	7.3	295.0
CB		6.8	295.5
1/4		6.5	295.8
2	43+84 <sup>21</sup>	6.1	296.2
1/4		5.8	296.5
CB		4.7	297.6
N	43+75 <sup>83</sup>	4.4	297.7
	500'E		
N	44+45 <sup>83</sup>	4.8	297.5

✓

302.33

CB		5.3	2970
1/4		5.9	2964
E	44+34 <sup>21</sup>	6.3	2960
1/4		6.7	2956
CB		7.3	2950
S	44+22 <sup>58</sup>	7.7	2946
	550'E		
S	44+72 <sup>58</sup>	7.5	2948
CB		6.8	2955
1/4		6.8	2955
E	44+84 <sup>21</sup>	6.8	2955
1/4		6.4	2959
CB		5.6	2967
N	44+95 <sup>83</sup>	5.0	2973
	600'E		
N	45+45 <sup>83</sup>	6.4	2959
CB		6.1	2955
+7		7.4	2949
1/4		7.8	2945
E	45+34 <sup>21</sup>	8.0	2943
1/4		7.8	2945
CB		7.7	2943
S	45+22 <sup>58</sup>	8.5	2938
	675'E		
S	45+47 <sup>58</sup>	9.1	2932

302.33

CB		8.4	2939
1/4		8.4	2939
E	45+59 <sup>21</sup>	8.7	2936
1/4		8.5	2938
+3		8.0	2943
CB		8.8	2941
N	45+70 <sup>83</sup>	8.8	2941
	Wash from North		
	650'E		
N	45+95 <sup>83</sup>	8.4	2939
CB		9.0	2933
+8		9.8	2931
1/4		9.7	2926
+3		9.1	2932
E	45+84 <sup>21</sup>	9.8	2931
1/4		9.0	2933
CB		9.3	2930
E	45+72 <sup>58</sup>	9.8	2925
	675'E		
S	45+97 <sup>58</sup>	10.6	2917
CB		10.8	2921
1/4		10.4	2919
E	46+09 <sup>21</sup>	10.0	2923
+5		10.0	2923
1/4		10.7	2916
CB		9.6	2927



302.33			
N	46+70 <sup>82</sup>	8.3	294.0
700'E			
N	46+45 <sup>82</sup>	8.4	293.9
CB		9.7	292.6
79		10.0	292.3
1/4		11.3	291.0
E	46+34 <sup>21</sup>	11.1	291.2
73		11.3	291.0
1/4		12.1	290.2
CB		11.5	290.8
S	46+22 <sup>58</sup>	11.9	290.6
725'E			
S	46+47 <sup>58</sup>	12.9	289.4
CB		12.8	289.5
1/4		12.1	290.2
E	46+59 <sup>21</sup>	11.8	290.5
72		11.9	290.4
1/4		12.8	289.5
77		11.9	290.4
1/4		12.0	290.3
72		11.7	290.6
73		10.6	291.7
CB		9.9	292.4
N	46+70 <sup>83</sup>	8.7	293.6
760'E			

302.33			
N	47+05 <sup>83</sup>	10.2	292.1
CB		11.4	290.9
77		11.8	290.5
79		13.3	289.0
1/4		13.3	289.0
72		13.3	289.0
75		14.4	287.9
E	46+94 <sup>21</sup>	13.3	289.0
73		13.1	289.0
76		14.2	288.1
1/4		14.2	288.1
CB		13.3	289.0
S	46+82 <sup>58</sup>	13.6	288.7
75	2.51	292.07	12.77
BM		3.44	288.63
770'E			
S	46+92 <sup>58</sup>	4.6	87.5
CB		6.5	85.6
1/4		4.9	87.2
75		4.4	87.7
E	47+04 <sup>21</sup>	3.3	88.9
72		3.3	88.8
74		4.6	87.5
76		3.3	88.8
1/4		3.4	88.7

RR SPK 117  
 FORD CO  
 0979602

29207

+2		3.1	89.0
+3		1.8	90.3
1/4? curb		1.5	90.6
N	47+15 <sup>83</sup>	0.5	91.6

799.5' E = Sec A = PC

N	✓ 47+45 <sup>33</sup> PC 370'R	2.1	90.0
CB		3.0	89.1
+4		3.3	88.8
+6		4.7	87.4
1/4		5.0	87.1
+3		4.9	87.2
+5		6.0	86.1
S	47+33 <sup>21</sup> PC 400'R	5.1	87.0
+7		5.3	86.8
1/4		6.5	85.6
+9		8.1	84.0
+8		7.3	84.8
CB		7.1	85.0

✓ 47+77<sup>84</sup> PC 430'R

22.985  
71.55 E on N  
26.7 W S = SEC B

S		6.3	85.8
S	47+48 <sup>80</sup>	7.8	84.3
CB		9.0	83.1
+4		9.3	82.8
1/4		7.1	85.0
+7		6.5	85.6

✓

29207

+5		5.9	86.2
E	47+58 <sup>56</sup>	5.1	86.5
+2		5.8	86.3
+4		6.8	85.3
+6		5.8	86.3
1/4		5.6	86.5
+2		4.3	87.8
CB		3.8	88.3
N	47+68 <sup>32</sup>	2.8	89.2

22.985  
71.55 E on N  
26.7 W S = SEC C

N	47+91 <sup>30</sup>	2.4	88.7
CB		4.6	87.5
1/4		5.2	86.9
+2		5.4	86.7
+4		6.7	85.4
+7		6.7	85.4
+5		7.2	84.9

47+83<sup>41</sup>

S		6.7	85.4
1/4		6.5	85.6
CB		8.7	83.4
+5		9.4	82.7
S	47+75 <sup>51</sup>	11.0	81.1

22.985  
71.55 E on N  
26.7 W S = SEC D

S	48+02 <sup>23</sup>	9.2	82.9
CB		8.0	84.1

✓

29207

14		7.1	85.0
+7		7.4	84.7
Z	48+08 <sup>26</sup>	7.6	84.5
+3		6.5	85.6
14		6.1	85.0
CB		5.2	86.9
N	48+14 <sup>29</sup>	4.1	88.0
	22.385 #155 Eon H 26.7 E - SEC E		
N	48+37 <sup>27</sup>	4.5	87.6
CB		5.7	86.4
14		6.4	85.7
+8		7.0	85.1
Z	48+33 <sup>11</sup>	7.7	84.4
14		8.1	83.0
CB		8.6	83.5
S	48+28 <sup>94</sup>	9.2	82.9
	22.385 #155 Eon H 26.7 E - SEC F		
S	48+55 <sup>66</sup>	10.0	82.1
CB		9.6	82.5
14		8.5	83.6
Z	48+57 <sup>96</sup>	8.5	83.6
+2		8.5	83.6
14		7.7	84.9
CB		6.0	86.1
N	48+60 <sup>26</sup>	4.8	87.3

29207

	22.385 #155 Eon H SEC G 26.7 E - SEC G		
N	48+83 <sup>25</sup>	5.7	86.4
CB		6.9	85.2
14		7.6	84.5
+2		7.7	84.4
+5		8.7	83.4
Z	48+82 <sup>81</sup>	9.0	83.1
14		8.9	83.2
CB		10.3	81.8
S	48+82 <sup>37</sup>	11.0	81.1
	22.39 #155 Eon H 26.7 E - SEC H = E.C. 0+0 Ahead		
S	✓ 49+09 <sup>08</sup> EC 430 R	11.4	80.7
CB		10.8	81.5
14		9.9	82.3
S	✓ 49+07 <sup>66</sup> EC 400 R	9.5	82.6
+8		9.3	82.8
14		8.7	83.4
CB		8.0	84.1
N	✓ 49+06 <sup>23</sup> EC 370 R	6.7	85.4
	25 E		
N	49+31 <sup>23</sup>	7.7	84.7
CB		8.3	83.8
+8		9.0	83.1
14		9.5	82.6
S	49+32 <sup>66</sup>	9.1	82.5

	292.07		
1/4		10.3	81.8
CB		10.9	81.2
S	49+34 <sup>08</sup>	11.3	80.8
	50'E		
S	49+59 <sup>08</sup>	11.5	80.6
CB		11.0	81.1
1/4		10.4	81.7
E	49+57 <sup>66</sup>	9.6	82.5
+P		9.8	82.3
1/4		9.1	83.0
CB		8.4	83.7
N	49+56 <sup>23</sup>	7.3	84.8
	75'E		
N	49+81 <sup>23</sup>	7.6	84.5
CB		8.5	83.6
1/4		9.1	83.0
+3		9.7	82.4
Z	49+82 <sup>66</sup>	9.4	82.7
1/4		10.0	82.1
CB		11.0	81.1
S	49+84 <sup>08</sup>	11.8	80.3
	100'E		
S	50+09 <sup>08</sup>	10.5	81.6
CB		10.1	82.0
1/4		9.5	82.6

✓

	292.07		
E	50+07 <sup>66</sup>	9.2	82.9
1/4		8.7	83.4
CB		8.0	84.1
N	50+06 <sup>23</sup>	7.3	84.8
	125'E		
N	50+31 <sup>23</sup>	6.5	85.6
CB		7.5	84.6
1/4		8.5	83.6
E	50+32 <sup>66</sup>	8.1	83.3
1/4		9.2	82.9
CB		9.2	82.9
S	50+34 <sup>08</sup>	9.3	82.8
	150'E		
S	50+59 <sup>08</sup>	9.3	82.8
CB		8.7	83.4
1/4		8.3	83.8
E	50+57 <sup>66</sup>	8.0	84.1
+P		8.0	84.1
1/4		7.5	84.6
CB		7.0	85.1
N	50+56 <sup>23</sup>	6.4	85.7
	175'E		
N	50+81 <sup>23</sup>	5.8	86.3
CB		6.5	85.6
1/4		6.8	85.3

✓

	292.07		
+2		7.5	84.6
2	50+82 <sup>66</sup>	7.3	84.8
1/4		7.5	84.6
CB		8.0	84.1
S	50+84 <sup>08</sup>	8.4	83.7
	200'E		
S	51+09 <sup>08</sup>	7.9	84.2
CB		7.2	84.9
1/4		6.8	85.3
2	51+07 <sup>66</sup>	6.9	85.2
+8		6.9	85.2
1/4		6.3	85.8
CB		6.1	86.0
N	51+06 <sup>23</sup>	5.6	86.5
TP	437	291.75	28238
	225'E		
N	51+31 <sup>23</sup>	4.9	87.4
CB		5.1	86.4
1/4		5.6	86.2
+2		6.3	85.5
2	51+32 <sup>66</sup>	6.3	85.5
+5		6.0	85.8
+7		5.6	86.2
1/4		5.9	86.1
C.B.		5.9	85.9

✓

	291.75		
S	51+34 <sup>08</sup>	6.9	84.9
	250'E		
S	51+59 <sup>08</sup>	6.9	84.9
CB		6.5	85.3
1/4		5.7	86.1
+3		5.5	86.3
+6		6.0	85.8
2	51+57 <sup>66</sup>	6.0	85.8
1/4		5.8	86.0
+3		4.6	87.2
CB		4.3	87.5
N	51+56 <sup>23</sup>	4.4	87.4
	275'E		
N	51+81 <sup>23</sup>	4.9	86.9
CB		5.0	86.8
+6		5.2	86.6
1/4		6.1	85.7
2	51+82 <sup>66</sup>	5.9	85.9
+5		5.6	86.2
1/4		5.9	85.9
CB		6.3	85.5
S	51+84 <sup>08</sup>	7.0	84.8
	300'E		
S	52+09 <sup>08</sup>	6.7	85.1
CB		6.8	85.6

✓

291.75

1/4		6.5	85.3
E	52+07 <sup>66</sup>	7.1	84.7
1/4		7.8	84.0
CB		7.5	84.3
N	52+06 <sup>23</sup>	7.8	84.0
N	52+24 <sup>23</sup> 318'E	8.7	83.1
CB		9.7	82.1
1/4		9.7	82.1
+3		8.9	82.9
E	54+25 <sup>66</sup>	8.8	83.0
1/4		7.2	84.6
CB		6.5	85.3
S	52+27 <sup>08</sup>	6.6	85.2
S	52+34 <sup>08</sup> 325'E	7.7	84.1
C		7.9	83.9
1/4		8.3	83.5
E	52+32 <sup>66</sup>	10.4	81.4
+5		12.4	79.4
+8		10.4	81.4
1/4		10.4	81.4
CB		10.1	81.7
+5		11.0	80.8
N	52+31 <sup>23</sup>	9.9	81.9

✓

291.75

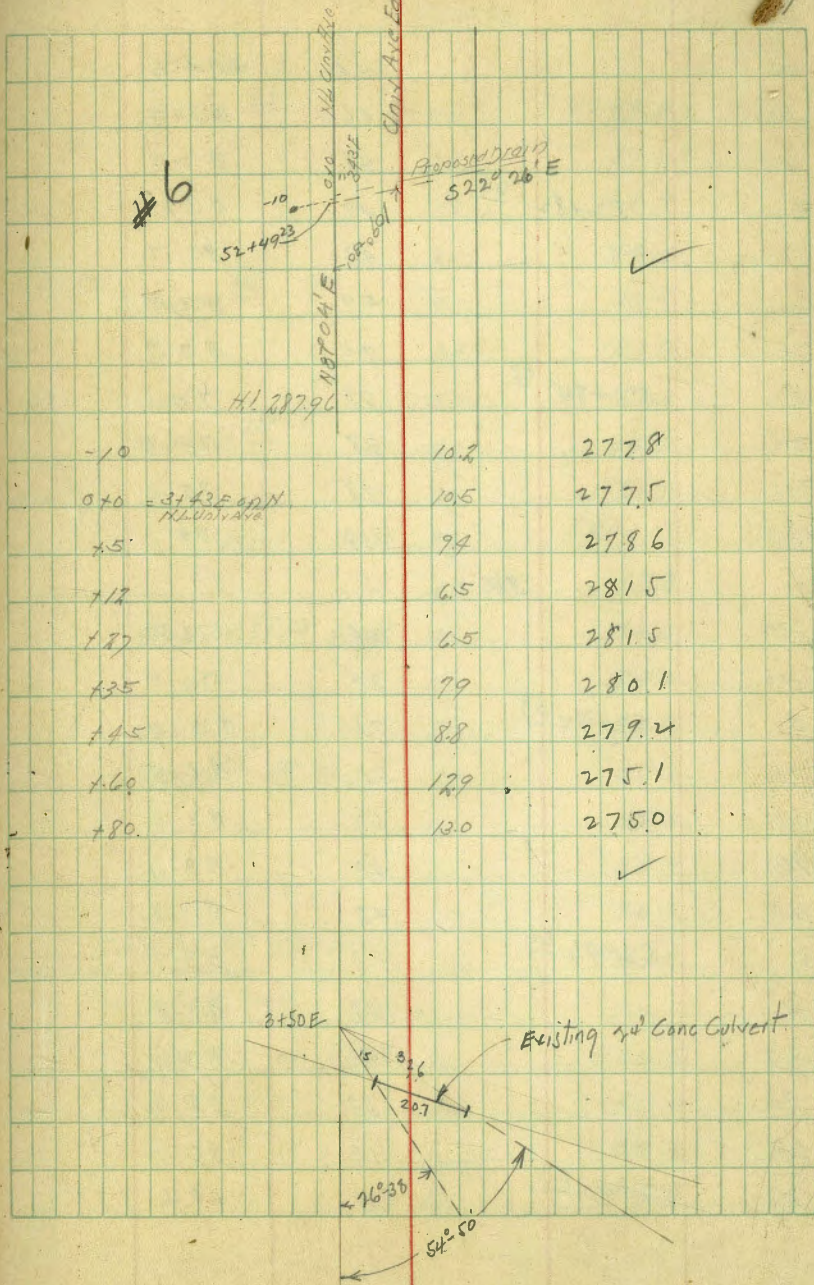
			328'E		
N	52+34 <sup>23</sup>	10.6		81.2	
+5		11.6		80.2	
CB		10.1		81.7	
1/4		10.4		81.4	
+4		10.1		81.0	
E	52+35 <sup>66</sup>	12.7		77.1	
+5		15.0		76.8	
1/4		13.3		78.5	
+5		9.7		82.1	
CB		8.6		83.2	
S	52+37 <sup>08</sup>	8.0		83.9	
B.M.	301	287.96	6.70	289.25	Nail 1/4" 104 anchor 00250
			346'E		
S	52+49 <sup>08</sup>	6.9		81.1	
CB		12.1		75.9	
1/4		12.1		75.9	
E	52+47 <sup>66</sup>	9.4		78.6	
+7		7.0		81.0	
1/4		7.0		81.0	
CB		6.8		81.2	
+5 N. End 24' Coors. Pipe 21' Long		10.60		297.36	Flow Line
N	52+46 <sup>23</sup>	10.8		77.8	to Ent for Line 11.58 76.38
			353'E		
N	52+59 <sup>23</sup>	5.8		82.8	

✓

	28796		
CB		5.8	82.7
1/4		6.4	81.6
1/9		6.4	81.6
2	52+60 <sup>66</sup>	7.1	80.9
1/4		8.8	79.2
1/6		9.8	78.8
CB		16.1	75.9
+5		16.9	75.1
5	52+62 <sup>08</sup>	18.6	75.4
+5		18.3	75.7
+15		9.9	78.1
	363 E		
-15		13.0	75.0
5	52+72 <sup>08</sup>	12.9	75.1
CB		8.3	79.7
1/4		7.8	80.8
1/7		6.6	81.4
2	52+70 <sup>68</sup>	6.1	81.9
1/4		5.6	82.4
1/7		5.8	82.8
CB		4.4	83.6
N	52+69 <sup>23</sup>	3.8	84.2
	375 E		
N	52+81 <sup>23</sup>	3.0	85.0
CB		3.2	84.8

Location & Levels Proposed Drain

10-7-75



28796

+8		84	284.6
+6		46	83.4
1/4		9.8	83.2
S	52+82 <sup>66</sup>	47	83.3
+1		43	83.7
1/4		57	82.3
CB		7.3	80.7
S	52+84 <sup>08</sup>	89	79.1
+4		98	78.2
+10		128	75.2
120		138	74.2

385'E

-20		11.4	76.6
-10		8.5	79.5
S	52+94 <sup>08</sup>	71	80.9
+5		6.2	81.8
CB		57	82.3
1/4		49	83.1
+5		42	83.8
S	52+92 <sup>66</sup>	43	83.7
1/4		42	83.8
+8		41	83.9
+6		24	85.6
CB		19	86.1
N	52+91 <sup>22</sup>	1.4	86.6

22

395'E

N	53+01 <sup>23</sup>	0.8	87.8
CB		0.8	87.2
+5		1.3	86.7
1/4		3.7	84.3
S	53+02 <sup>66</sup>	4.0	84.0
1/4		4.2	83.7
CB		5.0	83.0
S	53+04 <sup>08</sup>	5.7	82.3
+15		6.7	81.3

425'E = Sec A PC, L

-15		7.7	83.3
S	53+34 <sup>07</sup> PC 430R	3.1	84.6
CB		3.1	84.9
1/4		2.1	85.2
S	53+32 <sup>65</sup> PC 400R	2.9	85.1
+7		3.0	85.0
1/4		2.1	85.9
CB		4.7	86.3
N	53+31 <sup>22</sup> PC 370R	1.2	86.8
	24.97		
	25'E on N		
	29'E = Sec B		
N	29.02 53+56 <sup>19</sup>	1.5	86.5
CB		1.1	86.9
1/4		1.4	86.6
+1		1.7	86.3



28796

+5		3.1	84.9
2	53+59 <sup>64</sup>	3.1	84.9
14		2.8	85.2
CB		3.5	84.5
5	53+63 <sup>09</sup>	4.0	87.0
	25' E on N 29' E on S = Sec C		
5	53+92 <sup>11</sup>	4.4	83.6
CB		3.9	84.1
14		3.5	84.5
2	53+86 <sup>64</sup>	3.6	84.4
+3		3.0	85.0
14		2.7	85.3
CB		2.1	85.9
N	53+81 <sup>16</sup>	2.2	85.8
	25' E on N 29' E on S = Sec D		
N	54+06 <sup>13</sup>	1.8	86.2
CB		2.2	85.8
14		2.3	85.7
2	54+73 <sup>63</sup>	2.4	84.6
14		3.2	84.8
+3		2.8	85.2
+6		3.6	84.4
CB		3.9	84.1
5	54+21 <sup>13</sup>	4.4	83.6
+70		6.2	78.6 <sup>200</sup>
			81.8

28796

	25' E on N 29' E on S = Sec E		
+5		5.1	87.4
+2		5.4	82.6
2	54+50 <sup>15</sup>	3.2	84.8
CB		3.4	84.6
17		3.0	85.0
+9		2.4	85.6
14		2.4	85.6
2	54+40 <sup>63</sup>	2.8	85.2
+5		3.0	85.0
+6		2.2	85.8
14		1.9	86.1
CB		1.5	86.5
N	54+31 <sup>10</sup>	2.2	85.8
	25' E on N 29' E on S = Sec F		
N	54+56 <sup>07</sup>	1.3	86.7
CB		2.2	85.8
14		2.5	85.5
2	54+67 <sup>62</sup>	2.9	85.1
14		2.8	85.2
CB		2.9	85.1
+6		2.8	85.2
+8		4.3	83.7
5	54+79 <sup>17</sup>	4.6	83.4
+10		5.2	82.8



294.03

-10		10.8	83.2
S	55+72 <sup>20</sup>	10.1	83.9
+5		8.6	85.4
CB		8.2	85.8
+8		7.9	86.1
1/4		7.4	86.6
+6		7.2	86.8
E	55+56 <sup>61</sup>	7.2	86.8
+5		7.2	86.8
1/4		5.8	88.2
CB		5.3	88.7
N	55+41 <sup>01</sup>	4.7	89.3
	50'E		
N	55+56 <sup>01</sup>	4.9	89.3
CB		5.4	88.6
1/4		6.5	87.5
+8		7.0	87.0
E	55+71 <sup>61</sup>	6.9	87.1
1/4		6.5	87.5
CB		8.0	86.0
+5		8.5	85.5
S	55+87 <sup>20</sup>	10.1	83.9
+10.		10.7	83.3
	75'E		
-10		10.3	83.7

294.03

S	56+12 <sup>20</sup>	10.0	84.0
+6		7.9	86.1
CB		7.5	86.5
+8		7.2	86.8
1/4		6.7	87.3
E	55+96 <sup>61</sup>	6.4	87.6
+5		6.4	87.6
+7		5.7	88.3
1/4		5.8	88.2
CB		5.0	89.0
N	55+81 <sup>01</sup>	4.3	89.7
	100'E		
N	56+06 <sup>01</sup>	3.5	90.5
CB		4.0	90.0
1/4		5.1	88.9
+8		6.0	88.0
E	56+21 <sup>61</sup>	6.2	87.8
1/4		6.3	87.7
CB		6.7	87.3
+2		6.8	87.2
+7		9.0	85.0
S	56+37 <sup>20</sup>	9.1	84.6
+10		10.1	83.9
	125'E		
-10		9.9	84.1

794.03

S	56+62 <sup>20</sup>	9.4	846
+3		9.0	850
CB		6.7	87.3
1/4		5.8	88.2
E	56+46 <sup>61</sup>	5.1	88.4
+7		5.6	88.4
1/4		5.0	89.0
CB		4.0	90.0
N	56+31 <sup>01</sup>	3.2	90.8

150'E

N	56+56 <sup>01</sup>	3.8	90.8
CB		4.2	89.8
1/4		4.9	89.1
E	56+71 <sup>61</sup>	5.2	88.8
+5		5.3	88.7
1/4		5.4	88.6
+7		5.8	88.2
CB		7.3	86.7
+5		9.0	85.0
S	56+87 <sup>20</sup>	9.1	84.9
110		8.1	85.2

175'E

-6		8.1	85.4
S	57+12 <sup>20</sup>	8.6	85.4
CB		8.3	85.7

794.03

+5		5.7	88.3
1/4		5.4	88.6
E	56+96 <sup>61</sup>	4.9	89.1
1/4		4.7	89.3
+2		3.8	90.2
CB		3.4	90.6
N	56+81 <sup>01</sup>	2.5	91.5

200'E

N	57+06 <sup>01</sup>	2.6	91.4
CB		3.3	90.7
+5		3.9	90.1
+8		4.4	89.6
1/4		4.4	89.6
E	57+21 <sup>61</sup>	4.8	89.2
1/4		5.4	88.6
+2		5.5	88.5
+8		7.9	86.1
CB		7.9	86.1
S	57+37 <sup>20</sup>	8.3	85.7
+3		8.8	85.8
+8		6.5	87.5

225'E

-5		5.9	88.1
S	57+62 <sup>20</sup>	7.5	86.5
CB		7.7	86.3

294.03

+5		7.4	86.6
1/4		5.6	88.4
+4		4.6	89.4
E	57+46 <sup>61</sup>	4.6	89.4
1/4		4.4	89.6
+5		4.4	89.6
17		3.9	90.1
CB		3.7	90.3
N	57+31 <sup>01</sup>	2.6	91.4
	250'E		
N	57+56 <sup>01</sup>	2.6	91.4
18		2.9	91.1
CB		3.6	90.4
1/4		4.1	89.9
+5		4.3	89.7
+8		3.7	90.3
E	57+71 <sup>61</sup>	3.7	90.3
+6		3.9	90.1
1/4		7.1	86.9
CB		7.2	86.8
17		7.0	87.0
S	57+87 <sup>20</sup>	5.1	88.9
	267'E		
S	58+04 <sup>20</sup>	4.9	89.1
14		5.1	88.6

✓

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294.03

+8		7.0	87.0
CB		7.0	87.0
1/4		6.9	87.1
17		3.6	90.4
E	57+88 <sup>61</sup>	3.5	90.5
17		3.5	90.5
1/4		4.1	89.9
CB		4.0	90.0
17		3.9	90.1
+5		3.1	90.9
N	57+73 <sup>01</sup>	3.0	91.0
	225'E		
N	57+91 <sup>01</sup>	5.7	88.3
CB		5.4	88.6
14		5.3	88.7
1/4		4.7	89.3
E	58+06 <sup>61</sup>	5.0	89.0
12		5.1	88.9
17		6.9	87.1
1/4		7.0	87.0
CB		6.5	87.5
13		5.9	88.1
S	58+22 <sup>20</sup>	6.6	87.4
	360'E		
S	58+37 <sup>20</sup>	7.9	86.2

✓

794.03

+5		77	86.3
CB		7.2	86.8
14		7.1	86.9
E	58+21 <sup>61</sup>	7.2	86.7
14		7.5	86.5
+7		7.5	86.5
CB		7.9	86.1
N	58+06 <sup>01</sup>	8.0	86.0
	304'E		
N	58+10 <sup>01</sup>	8.1	85.4
CB		8.4	85.6
14		8.2	85.8
+2		8.3	85.7
+3		10.5	83.5
E	58+25 <sup>61</sup>	12.1	81.9
+7		11.5	82.5
14		10.3	83.7
+4		7.4	86.6
CB		7.8	86.2
S	58+41 <sup>20</sup>	8.1	85.9
	309'E		
S	58+46 <sup>20</sup>	8.5	85.5
18		8.8	85.2
CB		9.3	84.7
+7		11.7	82.3

✓

794.03

14		12.8	81.2
E	58+30 <sup>61</sup>	12.3	81.7
+7		12.0	82.0
14		10.9	83.1
+2		9.2	84.8
CB		9.0	85.0
N	58+15 <sup>01</sup>	9.0	85.0
	314'E		
N	58+20 <sup>01</sup>	9.3	84.7
CB		9.6	84.4
+2		10.0	84.0
+7		11.9	82.1
14		12.2	81.8
E	58+35 <sup>61</sup>	11.9	82.1
14		12.7	81.3
+9		13.0	81.0
CB		12.8	81.2
+3		11.1	82.9
S	58+51 <sup>20</sup>	10.2	83.8
+15		10.2	83.8
	316'E		
+20		12.6	81.4
S	58+53 <sup>20</sup>	11.0	83.0
+5		11.9	82.1
+7		12.9	81.1

Note 58+55<sup>29</sup> on South line = Intersection with N line Chollas Rd  
 58+39<sup>20</sup> = Sta opposite on  $\Phi$   
 58+24<sup>20</sup> = " " on North line

299.03

CB		131	809
+8		123	817
1/4		9.6	848
+3		7.3	867
E	58+37 <sup>61</sup>	78	862
+3		9.0	850
+8		121	819
1/4		122	818
+3		119	821
+8		10.0	840
CB		97	843
N	58+22 <sup>01</sup>	94	846
+10		87	853
	325E		
-10		86	854
N	58+31 <sup>01</sup>	96	844
+7		100	840
CB		11.8	828
+5		12.0	820
+7		10.8	832
1/4		10.6	834
E	58+46 <sup>61</sup>	73	867
+5		70	870
1/4		74	866
+5		9.4	846

✓

29

299.03

CB		118	822
+5		13.3	807
S	58+62 <sup>20</sup>	124	806
+15		12.6	814
	350E		
-		122	818
S	58+87 <sup>20</sup>	115	825
CB		111	829
+7		10.5	835
1/4		91	849
+5		69	871
E	58+71 <sup>61</sup>	66	874
+5		69	871
1/4		88	852
+5		96	844
CB		96	844
N	58+56 <sup>01</sup>	94	846
+5		96	844
+10		108	832
+15		98	842
	875E		
-15		92	848
N	58+81 <sup>01</sup>	84	856
CB		87	852
+7		86	854

✓

University Ave

60mide  
10°CB  
10°9.3

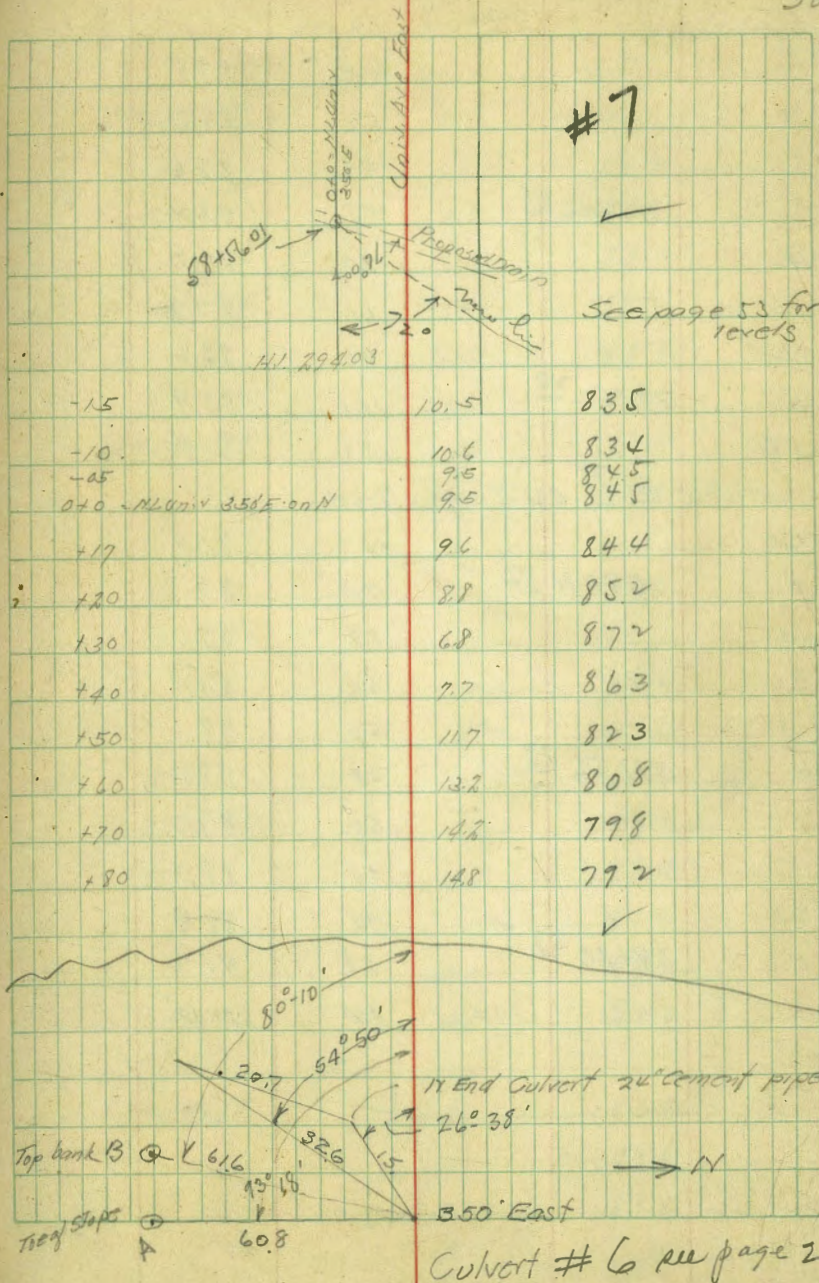
294.03

1/4		7.3	86.7
+5		6.5	87.5
2	58+96 <sup>61</sup>	6.4	87.6
1/4		7.0	87.0
1/4		9.5	84.5
CB		10.5	83.5
5	59+12 <sup>20</sup>	10.6	83.4
+15		11.3	82.7
	400'E		
-15		11.5	82.5
5	59+37 <sup>20</sup>	8.9	85.1
+15		8.2	85.8
CB		8.7	85.3
+7		8.4	85.6
1/4		7.4	86.5
+6		6.2	87.7
2	59+21 <sup>61</sup>	6.5	87.5
1/4		6.3	87.7
CB		6.1	87.9
+15		6.0	88.0
N	59+06 <sup>01</sup>	4.6	89.4
	425'E		
N	59+31 <sup>01</sup>	3.0	91.0
+3		3.3	90.7
+7		5.3	88.7

✓

Location + Levels Proposed Drain

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294.03

CB		5.5	88.5
1/4		5.7	88.3
+6		5.4	88.6
Σ	59+46 <sup>61</sup>	5.8	88.2
1/4		7.0	87.0
+6		6.1	87.9
CB		7.6	86.4
S	59+62 <sup>20</sup>	10.1	83.9
+20		12.6	81.4
(Should be 434 <sup>52</sup> )	438'E Δ = SocA		
-20		13.6	80.4
S	59+71 <sup>72</sup> ✓	11.3	82.7
CB		8.9	85.1
1/4		6.5	87.5
+3		5.9	88.1
Σ	59+56 <sup>13</sup> ✓	5.8	88.2
1/4		6.0	88.0
CB		5.8	88.2
+5		5.1	88.9
N	59+40 <sup>53</sup> ✓	2.8	91.2
B.M.	5.23 294.62	4.64	289.39 ✓

376.6 P/L  
1025.2 Point  
on N.



294.62

SocA only - SocB = 0.10 above			
N	59+41 <sup>18</sup> ✓	3.5	91.1
+6		6.0	88.6
CB		6.3	88.3
1/4		6.5	88.1
Σ	59+63 <sup>52</sup> ✓	4.7	88.2
1/4		6.5	88.1
CB		9.4	85.2
S	59+86 <sup>19</sup> ✓	11.9	82.7
+15		14.0	80.6
ASE			
-25		15.0	79.6
S	60+11 <sup>19</sup>	11.9	82.7
CB		7.4	87.2
+3		6.8	87.8
1/4		6.6	88.0
Σ	59+88 <sup>52</sup>	6.6	88.0
1/4		6.6	88.0
CB		6.6	88.0
+5		6.3	88.3
N	59+66 <sup>18</sup>	3.4	91.2
Eo'E			
1/4	59+91 <sup>18</sup>	3.7	90.9
+7		6.0	88.6
CB		6.3	88.3

✓

294.62

E	60+13 <sup>52</sup>	65	88.1
1/4		6.2	88.4
CB		6.4	88.2
S	60+36 <sup>19</sup>	11.0	83.6
125		15.9	78.7

75°E

-25		16.0	78.6
-10		13.1	81.5
S	60+61 <sup>19</sup>	9.3	85.3
CB		5.9	88.7
1/4		6.1	88.5
S	60+38 <sup>52</sup>	6.4	88.2
1/4		6.2	88.3
CB		6.0	88.6
+5		5.2	89.4
+7		4.0	90.6
N	60+16 <sup>18</sup>	3.7	90.9

100°E

N	60+41 <sup>18</sup>	3.4	91.2
+5		3.5	91.1
+7		5.5	89.1
CB		5.5	89.1
1/4		6.1	88.5
E	60+63 <sup>52</sup>	6.1	88.5
1/4		5.9	88.7

294.62

CB		5.9	88.7
+7		6.4	88.2
S	60+86 <sup>19</sup>	7.0	87.6
120		15.0	79.6
130		16.5	78.1

105°E

-30		15.5	79.1
-20		14.0	80.6
S	61+11 <sup>19</sup>	6.6	88.0
CB		5.9	88.7
1/4		5.8	88.8
E	60+88 <sup>52</sup>	6.0	88.6
1/4		6.1	88.5
CB		5.8	88.8
+5		3.8	90.8
N	60+66 <sup>18</sup>	3.3	91.3

150°E

N	60+91 <sup>18</sup>	2.9	91.7
+7		3.0	91.6
CB		5.4	89.2
1/4		5.7	88.9
E	61+13 <sup>52</sup>	5.7	88.9
1/4		5.5	89.1
CB		5.4	89.2
+5		1.0	88.6

		294.60	
S	61+36 <sup>19</sup>	79	86.7
+25		147	79.9
+35		15.5	79.1
		175'E	
-35		15.0	79.6
S	61+61 <sup>19</sup>	92	85.4
CB		53	89.3
1/4		5.0	89.6
2	61+38 <sup>52</sup>	52	89.4
1/4		52	89.4
+7		51	89.5
CB		41	90.5
+3		2.6	92.0
N	61+16 <sup>18</sup>	21	92.5
		200'E	
N	61+41 <sup>18</sup>	20	92.6
+8		24	92.2
CB		4.4	90.2
1/4		5.0	89.6
2	61+63 <sup>52</sup>	47	89.9
1/4		45	90.1
CB		78	86.8
S	61+86 <sup>19</sup>	112	83.4
+25		144	80.2
		225'E	

✓

		294.60	
-20		13.6	81.0
S	62+11 <sup>19</sup>	113	83.3
CB		75	87.1
+5		5.1	89.5
1/4		4.5	90.1
2	61+88 <sup>52</sup>	4.4	90.2
1/4		4.6	90.0
+5		4.5	90.1
CB		2.0	92.6
N	61+66 <sup>18</sup>	1.1	93.2
		250'E	
N	61+91 <sup>18</sup>	1.7	92.7
CB		2.3	92.3
+1		4.4	90.2
1/4		4.6	90.0
2	62+13 <sup>52</sup>	4.6	90.0
1/4		4.5	90.1
S	62+36 <sup>19</sup>	11.6	83.0
+20		12.9	81.7
		275'E	
-25		16.3	78.3
-10		15.9	78.7
S	62+61 <sup>19</sup>	10.7	83.9
CB		8.5	86.1
1/4		5.5	89.1

✓

Bob Creek

294.62			
L	62+38 <sup>52</sup>	5.0	89.6
1/4		4.7	89.9
+7		4.4	90.2
CB		3.0	91.6
N	62+16 <sup>18</sup>	1.9	92.7
300'E			
N	62+41 <sup>18</sup>	2.3	92.3
+5		2.5	92.1
CB		3.9	90.7
1/4		4.1	89.8
L	62+63 <sup>5</sup>	5.0	89.6
1/4		5.9	88.7
+5		6.6	88.0
CB		8.5	86.1
+5		10.3	84.3
S	62+86 <sup>19</sup>	13.3	81.3
+10		16.0	78.6 Bol. Creek
+25		16.1	78.5
325'E			
-25		15.4	79.2 Bol. Creek
-5		15.1	79.5
S	63+11 <sup>19</sup>	9.7	84.9
CB		7.5	87.1
1/4		5.9	88.7
L	62+88 <sup>5</sup>	5.1	89.5

✓

294.62			34
1/4		4.8	89.8
+6		4.6	90.0
CB		3.5	91.1
+6		2.6	92.6
N	62+66 <sup>5</sup>	1.3	93.3
350'E			
N	62+91 <sup>18</sup>	2.1	92.5
+7		3.2	91.4
CB		4.2	90.4
+5		4.7	89.9
1/4		4.8	89.8
L	63+13 <sup>52</sup>	4.9	89.7
1/4		5.1	89.5
CB		5.7	88.9
+8		6.5	89.1
S	63+36 <sup>19</sup>	8.9	85.7
+15		15.5	79.1 Bol. Creek
+25		14.2	79.8
375'E			
-20		13.8	80.8
-8		12.9	81.7
S	63+61 <sup>19</sup>	10.2	84.4
+8		5.2	89.4
CB		4.7	89.9

✓

		294.62	
+7		3.9	90.7
1/4		4.6	90.0
S	63+38 <sup>52</sup>	4.5	90.1
1/4		4.4	90.2
CB		3.6	91.0
+7		1.6	93.0
N	63+16 <sup>18</sup>	1.2	93.4
		400'E	
N	63+41 <sup>18</sup>	0.5	94.1
+5		1.7	92.9
CB		3.0	91.6
+5		3.9	90.7
1/4		4.0	90.6
S	63+63 <sup>52</sup>	4.1	90.5
1/4		4.0	90.6
+5		3.5	91.1
CB		6.0	88.6
S	63+86 <sup>19</sup>	11.4	83.2
+5		12.8	81.8
+15		12.9	81.7
T.P.	12.48 303.28	3.22	290.20
		475'E	
-15		21.5	81.8
S	64+11 <sup>19</sup>	21.0	82.3
CB		16.9	86.4

		303.28	35
1/4		12.4	90.9
S	63+88 <sup>52</sup>	12.3	91.0
1/4		12.4	90.9
+5		12.1	91.2
CB		11.4	91.9
N	63+66 <sup>18</sup>	8.6	94.7
		450'E	
N	63+91 <sup>18</sup>	7.6	95.7
CB		9.4	93.9
17		11.8	91.5
1/4		11.8	91.5
S	64+13 <sup>52</sup>	11.9	91.4
1/4		12.0	91.3
+3		12.0	91.3
CB		7.0	86.3
+6		20.2	83.1
S	64+36 <sup>19</sup>	20.7	82.6
-20		21.0	82.3
		475'E	
-25		20.0	83.3
-10		20.8	82.5
S	64+61 <sup>19</sup>	20.2	83.1
CB		13.3	90.0
+5		11.6	91.7
1/4		11.5	91.8
S	64+38 <sup>52</sup>	11.3	92.0

University Ave.

3032P

1/4		11.2	92.1
+2		11.2	92.1
CB		9.3	94.0
+3		7.6	95.7
N	64+16 <sup>18</sup>	6.3	97.0
	500'E		
N	64+41 <sup>18</sup>	5.1	98.2
CB		6.4	96.9
+8		10.4	92.9
1/4		10.4	92.9
Z	64+63 <sup>52</sup>	10.6	92.7
1/4		11.1	92.2
CB		11.3	92.0
S	64+86 <sup>19</sup>	16.8	86.5
+10		21.2	82.1
1.25		20.0	83.3
	525'E		
-2.5		19.8	83.5
-10		20.4	82.9
S	65+11 <sup>19</sup>	13.4	89.9
+5		11.5	91.8
CB		11.5	91.8
1/4		10.8	92.5
+4		10.3	93.0
+7		9.3	94.0

✓

36

3032P

E	64+88 <sup>52</sup>	9.3	94.0
1/4		9.3	94.0
CB		5.5	97.8
N	64+66 <sup>18</sup>	3.2	99.5
	550'E		
N	64+91 <sup>18</sup>	2.8	300.5
CB		4.1	99.2
1/4		8.0	95.3
E	65+13 <sup>52</sup>	8.0	95.3
+3		8.0	95.3
1/4		10.4	92.9
CB		11.3	92.0
S	65+36 <sup>19</sup>	12.0	91.3
+1.5		19.0	84.3
	575'E		
-7		12.0	91.3
S	65+61 <sup>19</sup>	11.1	92.2
CB		11.0	92.3
+5		10.4	92.9
1/4		8.0	94.5
+5		7.1	96.2
E	65+38 <sup>52</sup>	7.0	76.3
1/4		6.5	96.8
+5		6.2	97.1
CB		3.2	300.1

✓

		303.28		
N	65+16 <sup>18</sup>		1.7	301.6
		600'E		
N	65+41 <sup>18</sup>		0.9	302.4
CB			2.8	300.5
+5			5.3	98.0
1/4			5.7	97.6
2	65+63 <sup>52</sup>		5.8	97.5
+5			6.0	97.3
1/2			7.7	95.5
CB			10.0	93.3
S	65+86 <sup>19</sup>		11.1	92.2
1/10			12.0	91.3
		675'E		
+5			12.0	91.3
S	66+11 <sup>19</sup>		10.8	92.5
+7			10.2	93.1
CB			9.1	94.2
1/4			6.7	96.6
+5			5.1	98.2
2	65+88 <sup>52</sup>		4.7	98.5
1/4			4.8	98.5
+5			4.2	99.1
CB			2.2	301.1
N	65+66 <sup>18</sup>		0.0	303.3
B.M.	4.58	306.78	10.2	302.20

RR 30th &  
in Pale  
At A Post

		306.78		
		650'E		
N	65+91 <sup>18</sup>		3.1	303.7
CB			5.4	301.4
+5			7.3	299.5
1/4			7.8	299.0
2	66+13 <sup>52</sup>		8.0	298.8
+3			8.0	298.8
1/4			9.4	297.4
CB			11.9	294.9
+8			12.4	294.4
S	66+36 <sup>19</sup>		12.4	294.4
+15			15.3	291.5
		675'E		
+15			14.7	292.1
S	66+61 <sup>19</sup>		13.9	292.9
CB			11.4	295.4
1/4			8.8	298.0
+8			7.2	299.6
2	66+38 <sup>52</sup>		7.2	299.6
1/4			6.2	299.9
+4			6.5	300.3
CB			4.9	301.9
N	66+16 <sup>18</sup>		2.9	304.1
	705.28	706'E = Sec A A		
N	66+46 <sup>46</sup>		2.1	304.7

University Ave.

30678

CB		42	02.6
+5		57	01.1
1/4		63	00.5
2	66+68 <sup>80</sup>	68	300.0
1/4		89	297.9
+5		10.5	296.3
CB		11.0	295.8
1/4		11.8	295.0
+8		13.0	293.8
S	66+91 <sup>47</sup>	13.0	293.8
+15		14.1	292.7

Sections

1132.111 = Sec B - 010. Ahead

S	66+91 <sup>47</sup> Δ 10°40' L	13.0	293.8
CB		11.4	295.4
1/4		89	297.9
2	66+74 <sup>40</sup>	7.0	299.8
+3		6.5	300.3
1/4		6.5	300.3
+5		6.0	300.8
CB		4.6	302.2
N	66+57 <sup>66</sup>	2.9	303.9

Unit Ave

706'E

(705.28)

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East →

30678

255

N	66+82 <sup>66</sup>	4.4	302.4
CB		6.1	300.7
1/4		7.0	299.8
76		2.0	299.8
2	66+99 <sup>40</sup>	8.4	298.4
1/4		8.6	298.2
+3		10.1	296.7
CB		11.2	295.6
S	67+16 <sup>47</sup>	13.4	293.4
+15		13.9	292.9

50'E

+20		13.9	292.9
S	67+41 <sup>47</sup>	12.5	294.3
+5		11.2	295.6
CB		10.5	296.3
1/4		8.5	298.3
2	67+24 <sup>40</sup>	7.3	299.5
+5		6.6	300.2
1/4		6.7	300.1
+8		6.4	300.4
CB		5.8	301.0
N	67+07 <sup>66</sup>	3.7	303.1
N	67+57 <sup>66</sup>	4.0	302.8

100'E

38



306.78

+6		4.5	302.3
CB		6.2	300.6
1/4		6.2	300.6
2	67+74 <sup>40</sup>	6.4	300.4
1/4		7.2	299.6
CB		9.8	297.0
S	67+91 <sup>47</sup>	11.6	295.2
+15		12.5	294.3

125'E

-15		12.4	294.4
S	68+16 <sup>47</sup>	11.5	295.3
CB		10.0	296.8
1/4		7.5	299.3
2	67+99 <sup>40</sup>	7.1	299.7
+4		6.4	300.4
1/4		6.6	300.2
CB		6.4	300.4
+5		4.8	302.0
N	67+82 <sup>66</sup>	4.3	302.5

150'E

N	68+07 <sup>66</sup>	4.1	302.7
+4		4.7	302.1
CB		6.4	300.4
1/4		6.5	300.3
+5		6.4	300.4

✓

39

306.78

2	68+24 <sup>40</sup>	7.5	299.3
1/4		8.0	298.8
+5		8.9	297.9
CB		10.6	296.2
S	68+41 <sup>47</sup>	11.6	295.2
+15		12.3	294.5

175'E

-15		12.1	294.7
S	68+66 <sup>47</sup>	11.8	295.0
CB		10.6	296.2
+8		8.4	298.4
1/4		8.4	298.4
S	68+49 <sup>40</sup>	6.7	300.1
+5		6.1	300.7
1/4		6.6	300.2
CB		6.3	300.5
+3		4.9	301.9
N	68+32 <sup>66</sup>	4.0	302.8

205'E = Sec A

N	68+62 <sup>66</sup>	4.3	302.5
+7		5.5	301.3
CB		6.9	300.0
1/4		6.9	300.0
+4		6.5	300.3
E	68+79 <sup>40</sup>	7.8	299.0

✓

approximate  
aligned to true  
C.M.

University Ave

60' side  
10' cbs  
10' 9' 5"

306.78

1/4	90	297.8
CB	11.0	295.8
5	12.1	294.7
+15	12.2	294.6
	12.1	294.7
5	10.9	295.9
1/4	8.8	298.0
2	7.4	299.4
+5	6.7	300.1
1/4	7.0	299.8
CB	6.8	300.0
+15	5.8	301.0
1/4	4.4	302.4

N.L. Univ Ave

377  
10' 9' 5"  
10' 9' 5"

Univ Ave East

205.5

40

306.78

TP	3.2V	298.92	1670	295.08	
BM			9.50	299.48	No. 1 Rod 1st. A Point 187.39
TP	4.24	299.67	1149	287.43	
TP	3.63	299.33	597	285.70	
BM	12.33	301.00	0.66	288.67	RR S.P. 10 Fence Post 76.4 - 100' W.P.
TP	10.26	311.02	0.84	300.76	
TP	8.77	318.04	1.75	309.27	
BM			4.22	313.26	N.M. Cor. 100' 0' Rod 4' 0" 10' 10' 10' 100' 0' 10' 313.26

Cross Section Chollas Road

6.11.57  
100 lbs  
18.9 lbs

RRSPT PAID  
11.2

BM	937	311.57	308.80
		250'E	
-15		16.7	294.9
S	69+41 <sup>47</sup>	16.4	295.2
CB		15.2	296.4
1/4		13.6	298.0
E	69+24 <sup>40</sup>	12.7	298.9
+6		11.5	300.1
1/4		11.6	300.0
CB		11.3	300.3
+5		9.6	302.0
N	69+07 <sup>66</sup>	9.0	302.6
		300'E	
N	69+57 <sup>46</sup>	7.2	304.4
CB		9.0	302.6
+4		10.7	300.9
1/4		10.6	301.0
E	69+74 <sup>40</sup>	10.8	300.8
1/4		11.7	299.9
CB		13.7	297.9
S	69+91 <sup>47</sup>	15.0	296.6
+15		15.6	296.0
		330'E	
-15		14.7	296.9
S	70+21 <sup>47</sup>	14.2	297.4
CB		12.7	298.9

311.57

11.6.56  
500 lbs  
31.4  
10.1 lb

41

1/4		10.7	300.9
E	70+04 <sup>40</sup>	9.6	302.0
1/4		9.4	302.2
+5		9.2	302.4
CB		7.8	304.3
+3		6.3	305.3
N	69+87 <sup>66</sup>	5.2	306.4
		360'E	
N	70+17 <sup>66</sup>	4.3	308.3
18		4.4	307.2
CB		5.5	306.1
+6		7.7	303.9
1/4		7.8	303.8
E	70+34 <sup>40</sup>	7.8	303.8
1/4		9.5	302.1
CB		11.0	300.6
S	70+51 <sup>47</sup>	12.7	298.9
+15		14.0	297.6
		400'E	
-15		13.2	298.4
S	70+91 <sup>47</sup>	11.9	299.7
CB		10.4	301.2
1/4		8.6	303.0
E	70+74 <sup>40</sup>	7.1	304.5
1/4		6.4	305.2

311.57

1/4		63	305.3	
+6		58	305.8	
CB		45	307.1	
+5		28	308.8	
N	70+57 <sup>66</sup>	18	309.8	
	450 F			
N	71+07 <sup>66</sup>	0.6	311.0	
+8		23	309.3	
CB		34	308.2	
+5		5.0	306.6	
1/4		5.6	306.0	
Z	71+24 <sup>40</sup>	5.7	305.9	
1/4		7.1	304.5	
CB		8.4	303.2	
S	71+41 <sup>47</sup>	9.8	301.8	
+10		10.4	301.2	
+15		13.0	298.6	
TP	10.37	317.58	4.36	307.21
		500 F		
-10		14.5	303.1	
S	71+91 <sup>47</sup>	13.9	303.7	
CB		12.6	305.0	
1/4		11.1	306.5	
Z	71+74 <sup>40</sup>	10.2	307.4	
1/4		10.4	307.2	

317.59

42

+8		8.1	309.7
CB		7.0	310.6
N	71+57 <sup>66</sup>	5.3	312.3
	525 F		
N	71+82 <sup>66</sup>	4.0	313.6
+8		5.4	312.2
CB		6.4	311.2
+5		8.4	309.2
1/4		8.8	308.8
+7		9.5	308.1
Z	71+99 <sup>40</sup>	9.4	308.2
+8		10.0	307.6
1/4		10.8	306.8
CB		12.0	305.6
S	72+16 <sup>47</sup>	13.6	304.0
+7		12.5	305.1
+15		12.6	304.0
		550 F	
-10		15.9	301.7
-7		14.1	303.5
S	72+41 <sup>47</sup>	13.1	304.5
CB		11.6	306.0
1/4		10.3	307.3
+4		9.3	308.3
Z	72+24 <sup>40</sup>	8.9	308.7

	317.58		
14		8.3	309.3
15		7.6	310.0
CB		5.4	312.2
H	72+07 <sup>66</sup>	3.9	313.7
	575'E		
H	72+32 <sup>66</sup>	2.9	314.7
CB		4.5	313.1
15		6.8	310.8
14		7.6	310.0
2	72+49 <sup>40</sup>	8.2	309.4
17		8.7	308.9
14		9.9	307.7
CB		11.2	306.4
S	72+60 <sup>47</sup>	12.8	304.8
17		14.2	303.4
110		16.1	301.5
	600'E		
-10		15.7	301.9
-7		13.7	303.9
S	72+91 <sup>47</sup>	12.8	304.8
CB		10.8	306.8
14		9.6	308.0
18		7.5	310.1
2	72+74 <sup>40</sup>	7.7	309.9
14		7.2	310.4

	317.58		
15		6.5	311.1
CB		4.5	313.1
H	72+57 <sup>66</sup>	2.8	314.8
	640'E		
H	72+97 <sup>66</sup>	2.1	315.5
CB		4.4	313.2
15		6.2	310.8
14		6.8	310.8
2	73+14 <sup>40</sup>	7.2	310.4
14		9.3	308.3
CB		10.5	307.1
S	73+31 <sup>47</sup>	11.9	305.7
17		12.7	304.9
110		15.0	302.6
	665'E		
-10		13.9	303.7
-7		12.3	305.3
S	73+56 <sup>47</sup>	11.4	306.2
CB		10.0	307.6
14		8.7	308.9
2	73+39 <sup>40</sup>	7.2	310.4
14		7.1	310.5
15		7.1	310.5
CB		5.0	312.6
H	73+22 <sup>66</sup>	2.1	314.0

317.58

	700 E		
N	73+57 <u>66</u>	3.3	314.3
CB		4.5	313.1
+5		6.7	310.9
1/4		7.0	310.6
E	73+74 <u>40</u>	6.9	310.7
1/4		8.6	309.0
CB		10.1	307.5
S	73+91 <u>47</u>	11.9	305.7
+10		14.8	302.8
+15		15.8	301.8
	715		
-20		15.2	302.4
-10		18.2	299.3
S	74+36 <u>47</u>	14.4	303.2
CB		11.1	306.5
1/4		9.0	308.6
E	74+19 <u>40</u>	7.3	310.3
1/4		7.8	310.9
+5		6.9	310.7
CB		5.2	312.4
N	74+02 <u>66</u>	3.3	314.3
	765 E		
N	74+22 <u>66</u>	4.0	313.6
+8		5.1	312.5

44

317.58

CB		6.7	310.9
1/4		7.3	310.9
E	74+39 <u>40</u>	8.7	308.9
1/4		11.4	306.2
CB		13.5	304.1
S	74+56 <u>47</u>	15.7	301.9
+10		17.7	299.9
+20		14.5	303.1
	785 E		
-20		14.2	303.4
-10		17.9	299.7
S	74+76 <u>47</u>	14.2	303.3
CB		11.2	306.3
1/4		9.3	308.3
E	74+59 <u>40</u>	7.5	310.1
1/4		6.7	310.9
CB		6.6	311.0
+2		6.4	311.2
+5		4.8	312.8
N	74+42 <u>66</u>	4.1	313.5
	805 E		
N	74+62 <u>66</u>	4.4	313.2
+2		5.5	312.1
CB		6.5	311.1
1/4		6.6	311.0

	317.58		
E	74 + 79 <u>40</u>	74	310.2
1/4		9.6	308.0
CB		11.6	306.0
S	74 + 96 <u>47</u>	144	303.2
+10		168	300.8
+20		138	303.8
	84'E		
-20		137	303.9
-10		160	301.6
S	75 + 05 <u>47</u>	147	302.9
CB		120	305.6
+5		124	305.2
1/4		120	305.6
E	74 + 88 <u>40</u>	113	306.3
1/4		97	307.9
CB		68	310.8
+8		57	311.9
N	74 + 71 <u>66</u>	4.5	313.1
TR	1198 325.16	440	313.18
	840'E		
N	74 + 77 <u>66</u>	122	313.0
+2		143	310.9
CB		146	310.6
1/4		143	310.9
E	74 + 94 <u>40</u>	110	309.2

	325.16		
1/4		176	307.6
CB		197	305.5
S	75 + 11 <u>47</u>	228	302.4
+10		223	300.9
+20		212	304.0
	850'E		
-20		208	304.4
-10		238	301.4
S	75 + 41 <u>47</u>	205	304.7
CB		190	306.2
1/4		171	308.1
E	75 + 24 <u>40</u>	153	309.9
1/4		137	311.5
CB		140	311.2
+5		134	311.8
N	75 + 07 <u>66</u>	120	313.2
	875'E		
N	75 + 32 <u>66</u>	105	314.7
+5		122	313.0
CB		137	311.5
1/4		137	311.4
E	75 + 49 <u>40</u>	146	310.6
1/4		159	309.3
CB		174	307.8
S	75 + 66 <u>47</u>	194	305.8

325/1

+10		210	309.2
+20		198	305.4
	900'E		
-20		201	305.1
-12		204	304.8
S	75+91 <sup>47</sup>	181	307.1
CB		162	309.0
1/4		148	310.4
E	75+74 <sup>40</sup>	135	311.7
1/4		132	312.0
CB		129	312.3
+5		120	313.2
+6		112	314.0
N	75+57 <sup>66</sup>	101	315.1
	950'E		
N	76+07 <sup>66</sup>	92	316.0
+6		98	315.4
CB		110	314.2
+3		118	313.4
1/4		116	313.6
E	76+24 <sup>40</sup>	115	313.7
1/4		127	312.3
CB		139	311.3
S	76+41 <sup>47</sup>	151	310.1
+10		158	309.4
+20		192	306.0

325/1

1000'E

-20		181	307.1
+15		173	307.9
-9		128	312.4
S	76+91 <sup>47</sup>	115	313.7
CB		107	314.5
1/4		98	315.4
E	76+74 <sup>40</sup>	97	315.5
1/4		96	315.6
+6		90	316.2
CB		73	317.9
+2		65	318.7
N	76+57 <sup>66</sup>	57	319.5
	1040'E		
N	76+97 <sup>66</sup>	31	322.1
CB		42	320.9
+5		65	318.7
1/4		70	318.2
E	77+14 <sup>40</sup>	74	317.8
1/4		77	317.5
CB		92	316.0
S	77+31 <sup>47</sup>	101	315.1
+10		111	314.1
+15		120	308.2
+20		170	308.2

46



325.16

1070'E

-20		16.0	309.2
-15		16.0	309.2
-7		9.9	315.3
S	77+61 <sup>47</sup>	8.9	316.3
CB		7.6	317.6
1/4		6.2	319.0
2	77+44 <sup>40</sup>	5.9	319.3
1/4		5.2	320.0
+5		4.5	320.7
CB		2.8	322.4
N	77+27 <sup>66</sup>	1.7	323.5
	1100'E		
N	77+57 <sup>66</sup>	1.2	324.2
CB		2.6	322.6
+5		3.9	321.3
1/4		4.6	320.6
2	77+74 <sup>40</sup>	5.0	320.2
1/4		5.7	319.5
CB		7.3	317.9
S	77+91 <sup>47</sup>	8.6	316.6
+7		9.4	315.8
+20	(Recshaus 113232)	15.5	309.7
	A 1129'E on NA 3° 50' L set taken spl. angle		
-20		14.7	310.5

47

325.16

-7		8.9	316.3
S	78+21 <sup>95</sup> Δ 2° 50' LT	8.1	317.0
CB		6.8	318.4
1/4		5.3	319.9
2	78+04 <sup>14</sup> Δ 2° 50' LT	4.1	321.1
1/4		3.9	321.3
+7		3.0	322.2
CB		1.5	323.7
N	77+86 <sup>66</sup> Δ 2° 50' LT	0.5	324.7
SW	309 325.16	1.43	323.23
	50'E		
N	78+36 <sup>66</sup>	2.0	323.8
CB		3.1	322.7
+5		3.8	322.6
+4		4.5	321.3
1/4		4.8	321.0
2	78+54 <sup>88</sup>	4.8	321.0
1/4		6.1	319.7
CB		7.5	318.3
S	78+73 <sup>43</sup>	8.1	317.2
+10		7.4	316.4
	100'E		
-25		9.5	316.3
S	79+23 <sup>43</sup>	5.3	317.5
CB		7.4	318.4

325.82

1/4		60	319.8
2	79+04 <sup>55</sup>	52	320.6
1/4		51	320.7
+5		47	321.1
+8		33	322.5
CB		31	322.7
N	78+86 <sup>66</sup>	19	323.9
	150 I		
N	79+36 <sup>66</sup>	18	324.6
CB		24	323.4
+4		28	323.0
17		13	321.5
1/4		45	321.3
2	79+54 <sup>88</sup>	47	321.1
1/4		52	319.9
CB		69	318.9
5	79+73 <sup>43</sup>	82	317.6
+15		99	315.9
	200 I		
-15		89	316.9
5	80+23 <sup>43</sup>	70	318.8
CB		59	319.9
1/4		52	320.6
2	80+04 <sup>88</sup>	51	320.7
17		47	321.1

48

325.82

1/4		30	322.8
CB		16	324.2
N	79+86 <sup>66</sup>	04	325.4
	ΔR 13°32' 213' E 00S		
N	80+05 <sup>28</sup> ΔR 13°32'	01	325.7 ✓
CB		12	324.6
1/4		27	323.1
13		30	322.8
16		47	321.1
2	80+19 <sup>24</sup> ΔR 13°32'	49	320.9
1/4		50	320.8
CB		62	319.6
5	80+34 <sup>23</sup> ΔR 13°32'	75	318.3
1/5		89	316.9
TP	788 322.25 545		320.37
	73 E 00 N Computed 7.12 on 17.		
	00 E 00 S = 0100		
-15		111	317.2
5	80+34 <sup>23</sup>	99	318.4
CB		86	319.7
1/4		74	320.9
2	80+23 <sup>50</sup>	74	320.9
+4		70	321.3
+5		55	322.8
1/4		50	323.3
CB		39	324.4
N	80+12 <sup>40</sup>	27	325.6

328.25			
13'E			
N	80+55 <sup>40</sup>	26	325.7
CB		3.5	324.8
1/4		5.0	323.3
+5		7.2	321.1
2	80+66 <sup>50</sup>	7.1	320.7
1/4		7.8	320.5
CB		9.1	319.2
S	80+77 <sup>93</sup>	10.3	318.0
+15		11.8	316.5
95'E			
-15		13.1	315.2
S	81+29 <sup>93</sup>	10.9	317.4
CB		9.3	319.0
+7		8.0	320.3
1/4		8.0	320.3
2	81+18 <sup>50</sup>	7.5	320.8
+8		6.8	322.1
1/4		5.0	323.3
CB		3.7	324.6
N	81+07 <sup>40</sup>	2.4	325.9
113'E			
N	81+25 <sup>40</sup>	7.3	326.0
CB		3.9	324.4
1/4		5.0	323.3

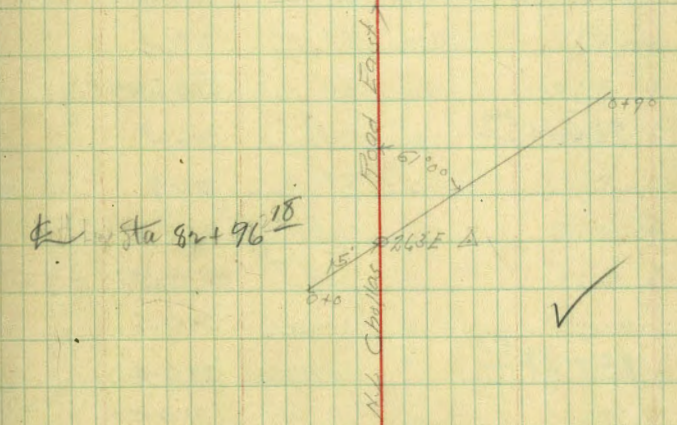
328.25			
1/4		5.3	323.0
+8		7.1	321.2
2	81+36 <sup>50</sup>	7.2	321.1
1/4		7.9	320.4
+1		8.0	320.3
CB		9.3	319.0
S	81+47 <sup>93</sup>	11.2	317.1
+15		13.1	315.2
125'E			
-15		12.9	315.4
S	81+59 <sup>93</sup>	10.9	317.4
CB		9.0	319.3
1/4		7.8	320.5
2	81+48 <sup>50</sup>	7.2	321.0
+7		7.1	321.2
1/4		4.9	323.4
CB		3.1	325.2
N	81+37 <sup>40</sup>	1.0	327.3
150'E			
N	81+62 <sup>40</sup>	1.4	326.9
CB		3.2	325.1
1/4		5.0	323.3
+5		6.9	321.4
2	81+73 <sup>50</sup>	7.5	320.8
1/4		7.5	320.5

	328.25		
+5		8.0	320.3
CB		9.0	319.3
S	81+84 <sup>93</sup>	10.5	317.8
+15		12.8	315.5
	170'E		
-13		11.9	316.4
S	82+04 <sup>93</sup>	9.9	318.4
CB		8.4	319.9
+3		8.0	320.3
1/4		7.8	320.5
Z	81+93 <sup>50</sup>	7.5	320.8
+4		7.0	321.3
1/4		5.3	323.0
CB		3.3	325.0
N	81+82 <sup>40</sup>	1.6	326.7
	195'E		
N	82+07 <sup>40</sup>	0.8	327.5
CB		2.8	325.5
1/4		5.1	322.9
+7		5.6	322.7
+7		8.4	319.9
Z	82+18 <sup>50</sup>	8.6	319.7
1/4		8.3	320.0
CB		8.5	319.8
S	82+29 <sup>93</sup>	10.0	319.3
+13		11.9	316.4

	328.25		
	278'E		
-13		11.2	317.1
S	82+62 <sup>93</sup>	10.7	317.6
-5		10.5	317.8
CB		9.8	318.5
1/4		9.8	318.5
Z	82+51 <sup>50</sup>	10.2	318.1
+6		10.0	318.3
1/4		8.9	319.4
+2		8.2	320.1
CB		7.4	320.9
N	82+40 <sup>40</sup>	6.8	321.5
	244'E		
-10		14.8	313.5
N	82+56 <sup>40</sup>	15.1	313.3
+5		14.4	313.9
CB		12.6	315.7
+8		11.5	316.8
1/4		11.5	316.8
Z	82+67 <sup>50</sup>	11.6	316.7
1/4		11.0	317.3
CB		11.0	317.3
S	82+78 <sup>93</sup>	11.2	317.1
+10		11.6	316.7
	255'E		
-10		12.3	316.0

		322.25	
S	82+89 <u>93</u>	12.2	316.1
CB		12.5	315.8
1/4		12.9	315.4
+5		12.0	316.3
2	82+78 <u>50</u>	12.0	316.3
1/4		11.8	316.5
+7		14.6	313.7
CB		14.9	313.4
N	82+67 <u>40</u>	14.9	313.4
1		14.3	314.0
TP	7.55 323.75	12.05	316.20
		270° E	
-10	82+82 <u>40</u>	9.3	314.5
N		9.8	314.0
CB		10.3	313.5
+7		10.6	313.2
1/4		9.9	315.9
1/8		8.0	315.3
2	82+93 <u>50</u>	9.4	319.4
+5		10.8	311.6
1/4		12.4	311.4
CB		12.2	311.6
S	83+04 <u>93</u>	10.5	313.3
+15		11.1	312.7
		280° E	
-15		12.0	311.8
S	83+14 <u>93</u>	12.7	311.1

		323.75	
at C/H End Prop Drain		9.8	314.0
+15 H.L. Chollas Ro.		10.2	313.6
+27		10.6	313.2
+32	No End 18" x 18" Flood Culvert 5' x 7' Prop Culvert	11.6	312.2 Flood Level
+36		9.6	316.2
+47		8.1	315.7
+53	No End 18" x 18" Flood Culvert 7' x 7' Prop Culvert	12.9	310.9 Flood Level
+61		12.9	310.9
+90		13.5	310.3



32375

CB		132	310.6
1/4		129	310.9
L	83+03 <u>50</u>	94	314.4
+3		79	315.9
1/4		78	316.0
+5		74	316.4
CB		88	315.0
N	82+92 <u>40</u>	90	314.8
+10		89	314.9

293'E

-15		77	316.1
N	83+05 <u>40</u>	62	317.5
CB		68	317.0
1/4		72	316.5
L	83+16 <u>50</u>	73	316.5
+1		74	316.4
1/4		106	313.2
+7		133	310.5
CB		123	310.5
S	83+27 <u>93</u>	124	310.4
+10		128	310.0
+15		115	312.3

308'E

-15		107	313.1
-10		105	313.3

32375

S	83+42 <u>93</u>	95	314.3
CB		79	315.9
1/4		60	317.0
L	83+31 <u>50</u>	60	317.8
1/4		64	317.4
CB		61	317.7
N	83+20 <u>40</u>	55	318.3
+10	!	43	319.5

323'N

N	83+35 <u>40</u>	87	320.1		
CB		44	319.4		
+2		45	319.3		
1/4		59	317.9		
L	83+46 <u>50</u>	54	318.4		
1/4		52	318.6		
CB		65	317.3		
S	83+57 <u>93</u>	72	316.6		
+15		96	314.2		
TP	502	324.17	460	319.15	oo Center Plot gt 4.00

327'E

-15		104	313.8
S	83+71 <u>93</u>	71	317.1
CB		63	317.9
1/4		54	318.8
L	83+60 <u>50</u>	54	318.8

	324.17		
1/4		57	318.5
CB		48	319.4
N	83+49 <sup>40</sup>	40	320.2
	355'E		
N	83+67 <sup>40</sup>	27	322.0
CB		31	321.1
1/4		51	319.1
E	83+78 <sup>50</sup>	50	319.2
1/4		52	319.0
CB		59	318.3
S	83+89 <sup>93</sup>	65	317.7
1/5	Rec. (319.24)	10.7	313.5
	369'E		
-15		10.9	313.3
S	84+04 <sup>17</sup> City Limits	62	318.0
CB		59	318.3
1/4		54	318.8
E	83+92 <sup>74</sup>	48	319.4
1/4		45	319.7
CB		24	321.8
N	83+81 <sup>64</sup>	14	322.8
	Rec. (392.30) 392.600N 0.0 E 0.0 S		
N	84+05 <sup>23</sup> City Limits	0.6	323.7
CB		1.7	322.3
1/4		4.7	319.5

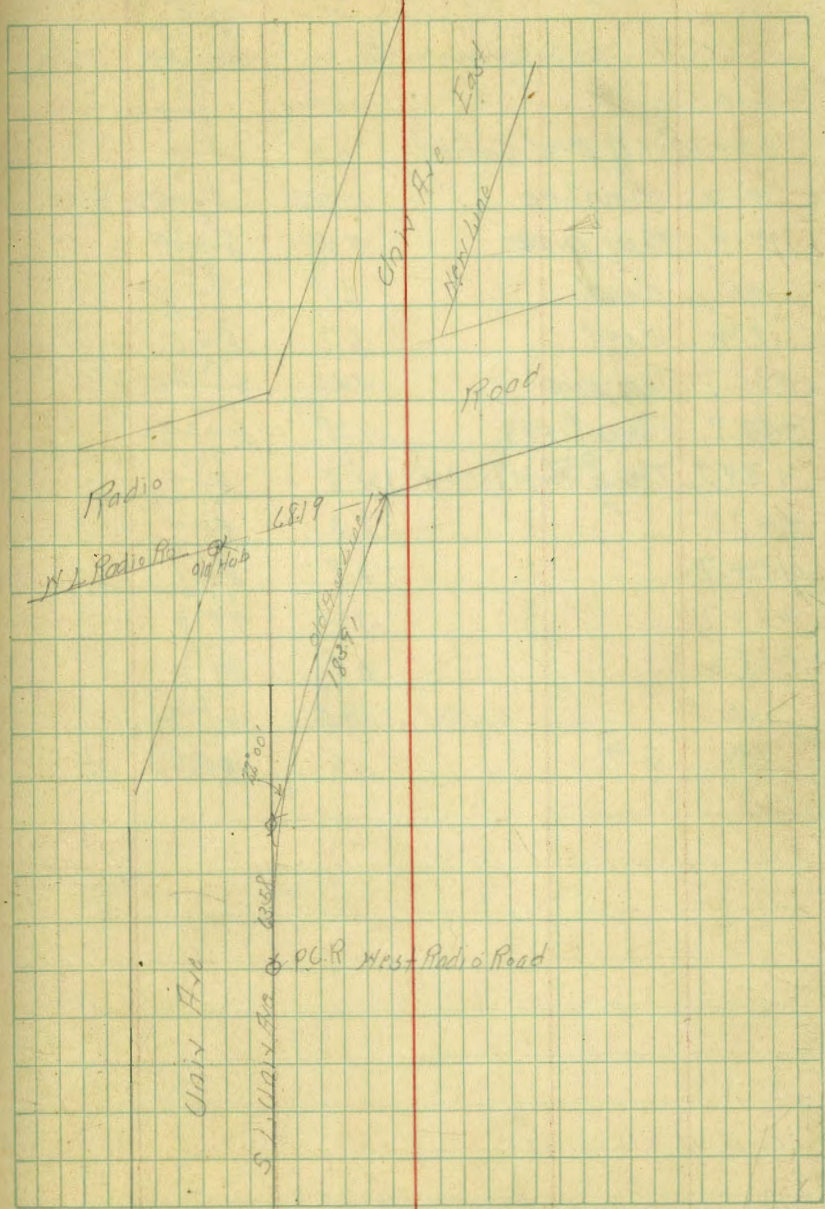
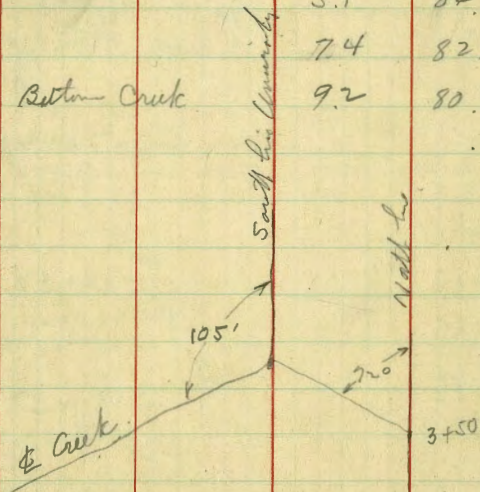
diag. C.A.S.  
Chs 1995  
975 1017.5

E	84+04 <sup>54</sup> City Limits	50	319.2	
1/4		55	318.7	
CB		59	318.3	
S	84+04 <sup>17</sup> City Limits	62	318.0	
BM	620	325.35	319.15	on Center Hub at Line
TP	020	321.35	420	321.15
TP	221	313.31	1025	311.10
TP	422	305.04	1249	300.82
BM			204	302.20
				RR 504 Pole H.A.A.
				502' Dist
				369'E 236
				3/4" Iron Pipe 8"x8" Post Marked 3.5' ad E
				Chollas Floor East
				Hub
				68° 33'
				3/4" Iron Pipe 8"x8" Post Marked 3.0' ad E
				Eastern Line

Intersection of Rd Curved West Radio Road  
with New Line East Road of Post

### Levels Culvert #7

B.M.	020	289.59		289.39	3 Nails in Pole
-20			48	284.8	
-10			62	83.4	
-6			5.3	84.3	
N Line <del>Chas</del> University Ave			48	84.8	
+15			52	84.4	
+25			38	85.8	
+36			23	87.3	
+45			5.1	84.6	
+50			7.4	82.2	
+61	Bottom Creek		9.2	80.4	





Culvert Level for #7

+ 41 Culvert 3+43 East.

	287.56		289.89
263	292.02		277.4
-10		10.2	81.8
00 = 10' N of End Culvert		10.6	77.0
+10 Flowline.		10.75	81.4
+10 Top pipe		8.45	76.83
+13 Road		6.5	81.27
+26 Road		6.7	79.13
+30.7 Top pipe		9.45	83.57
+30.7 Flow Pipe		11.78	81.1
+39.7 Top of slope		11.5	85.5
+47.7		6.3	81.3
+52.7		3.9	85.7
+62.7		3.2	83.7
+68.2		2.8	88.1
A		12.6	84.4
B	$\frac{\Delta}{\nabla} = 14'$	6.5	88.8
			84.8
			89.2
			74.8
			79.2
			81.1
			85.5

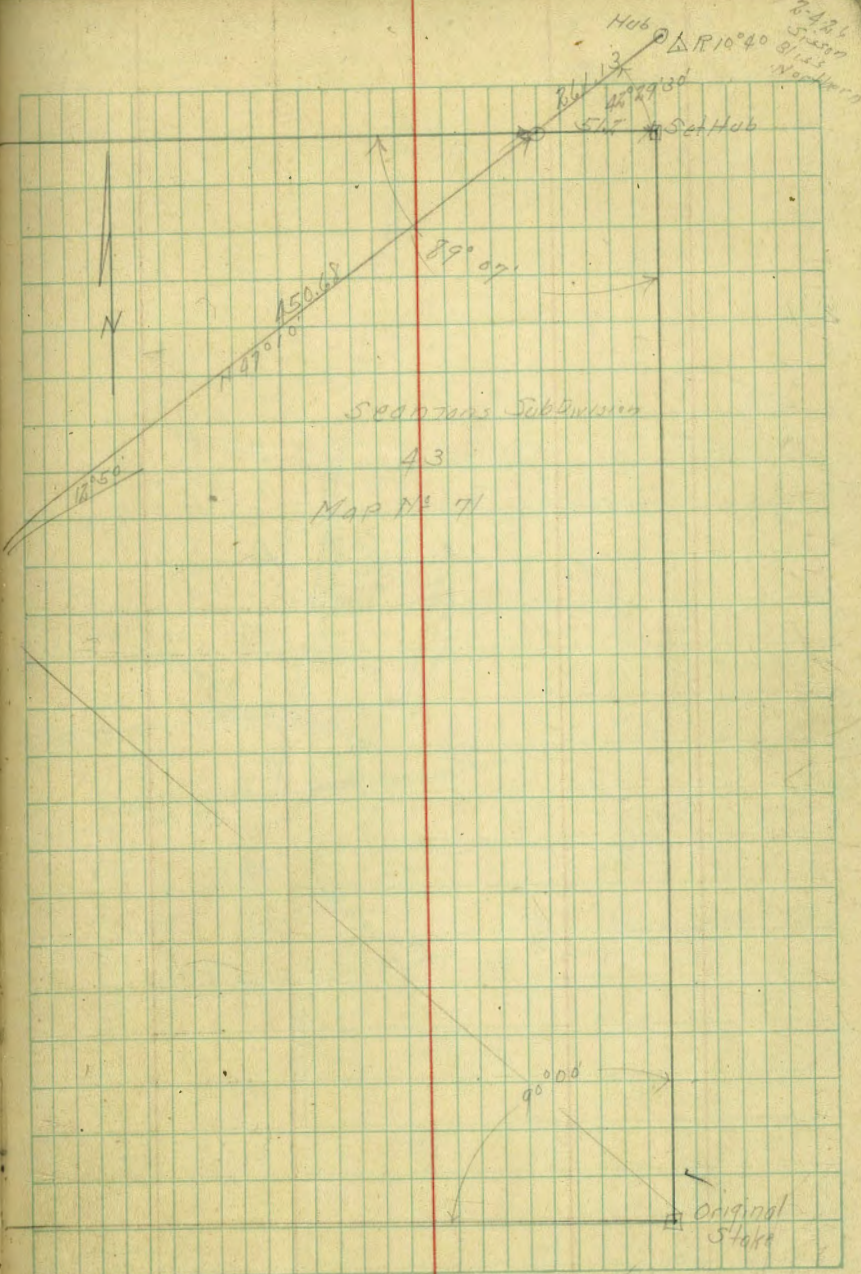
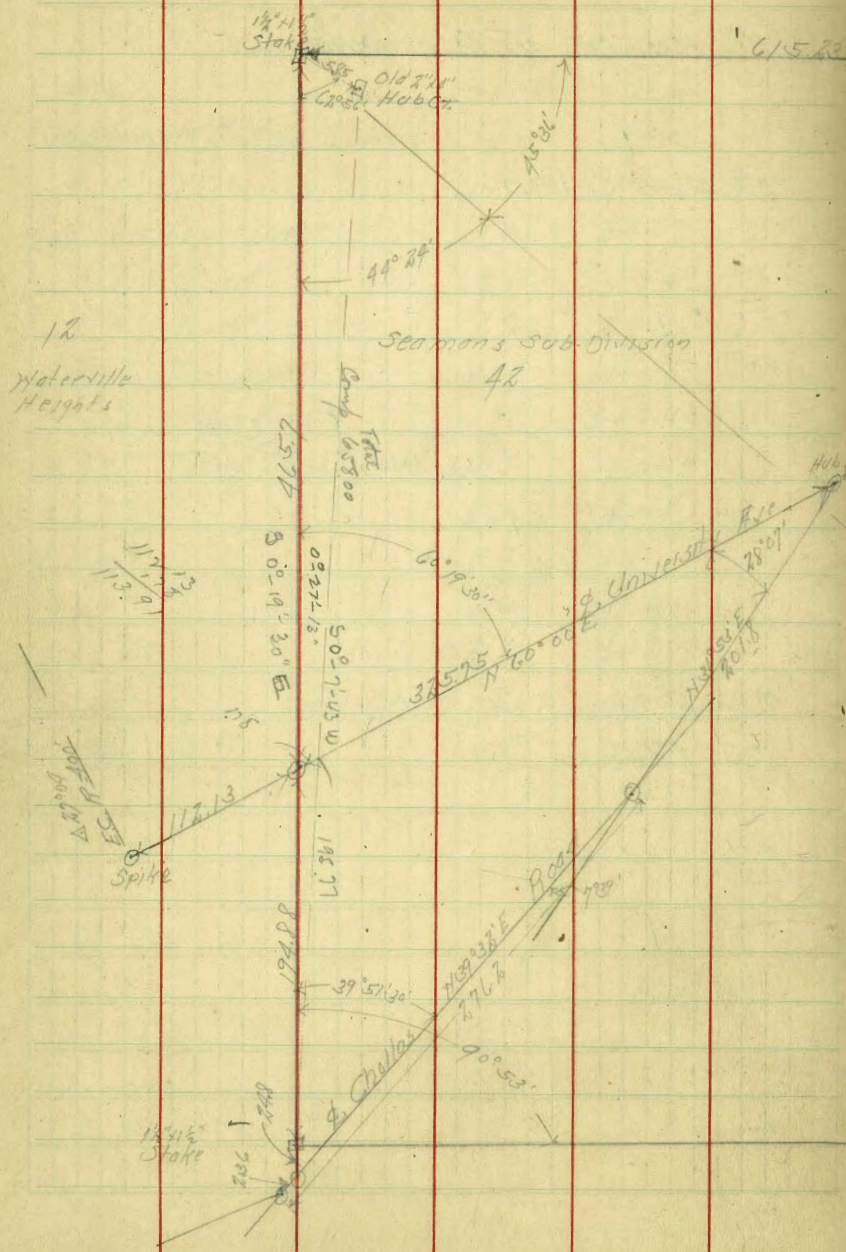
BM 10d Nail in tele pole. 784.95

North End Culvert

Culvert #6

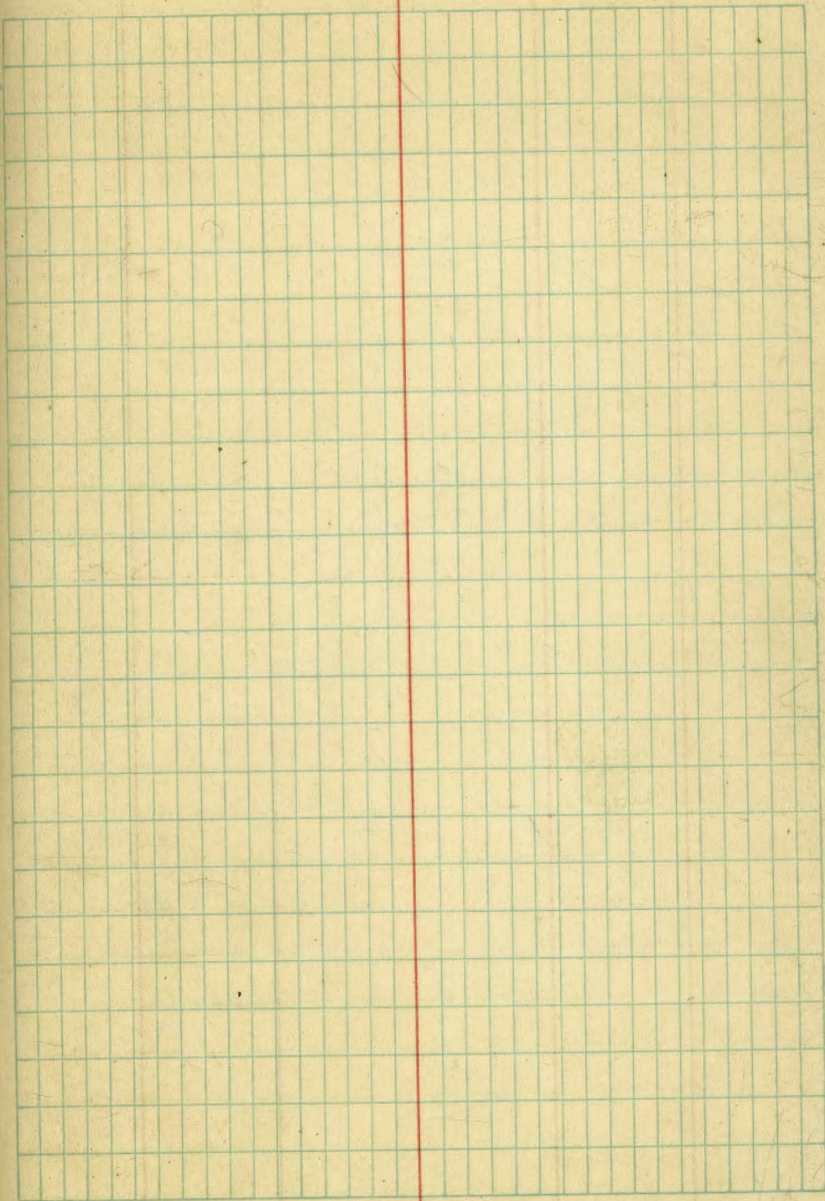
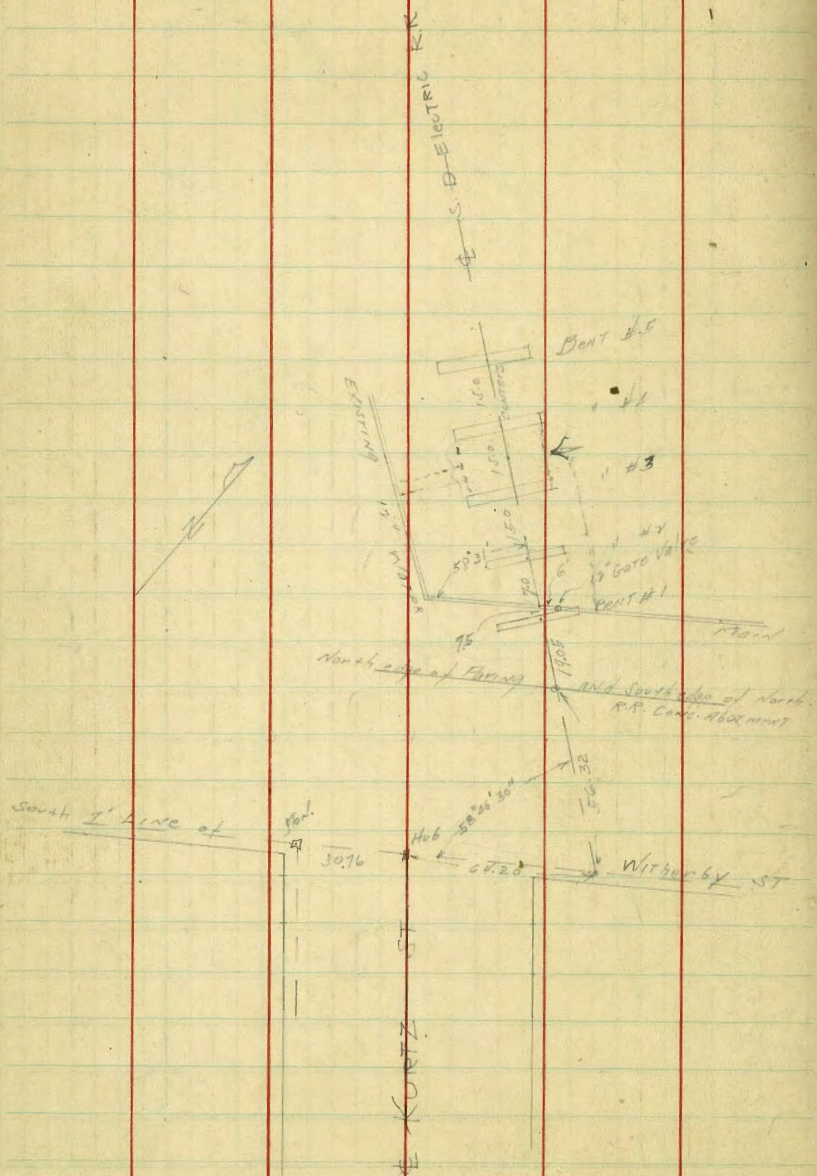
Creek bottom on S Prop line.  
Top Bank

Tias University Ave And Chollas Road  
Seamans Sub-Division



4/12/27 Location of Booster Pump under  
 S.D. Electric RR North of Vadium at  
 Kurtz

Moore  
 1/11/27  
 Wierherby Road  
 around



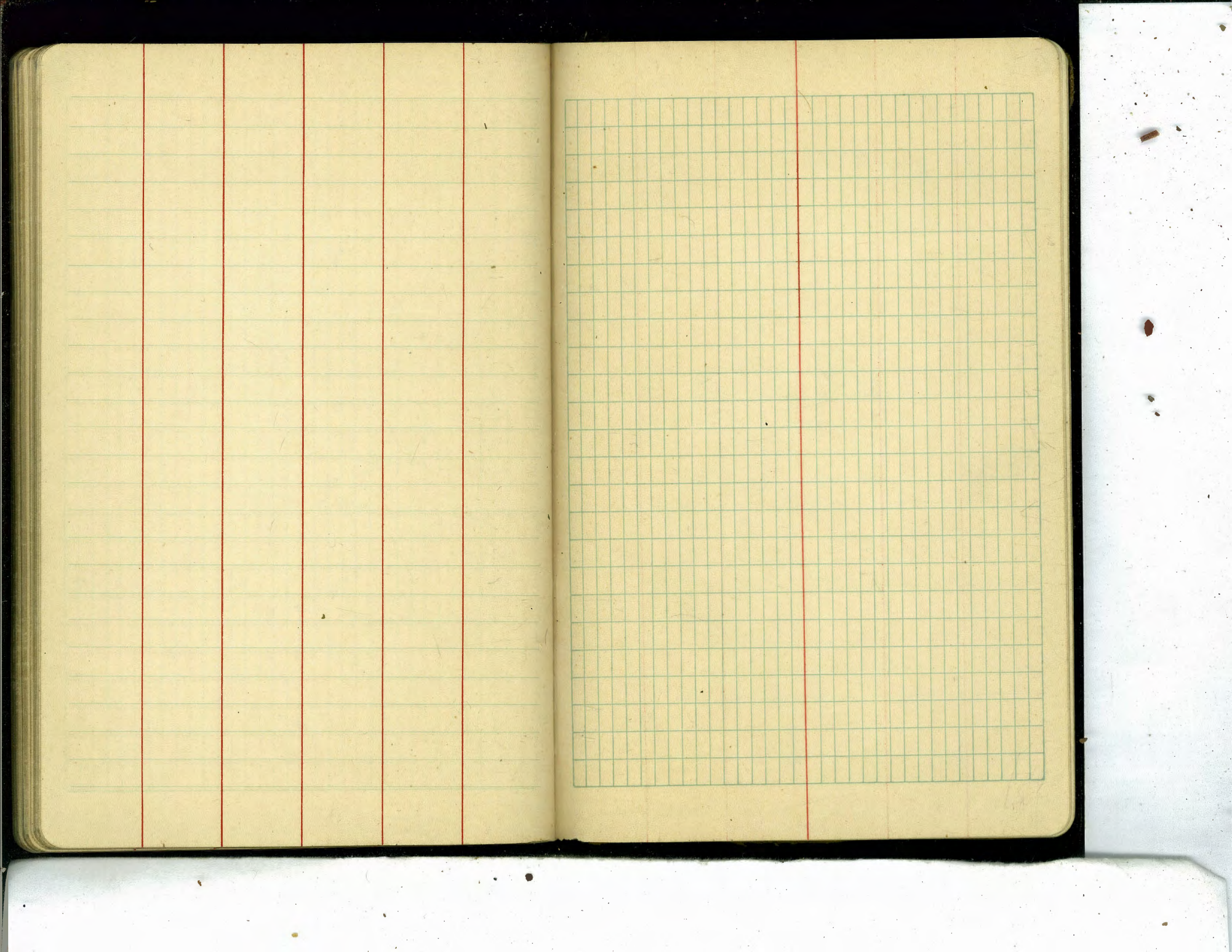


Table BMNW 313.22  
 Shiloh rd. BMNW 313.03

1303  
 4.00  
 4.00  
 9.09  
 56.34

DISTANCES FROM CENTER OF ROADWAY FOR  
 CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1½.  
 For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.1	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be 41.9 + (20—16) \* 2 or 2 ft. added to 41.9 = 43.9. For slopes of 1 on 1 see inside of front cover.

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