PLANS SURVEY

RICE STREET

From Co. Rd. "A" to Co. Rd. "A2"

Ramsey Co. Proj No. 28-01A

Road o/c No. 1

File No. 11

11

Proj. # 28-01 A.

Rice St.

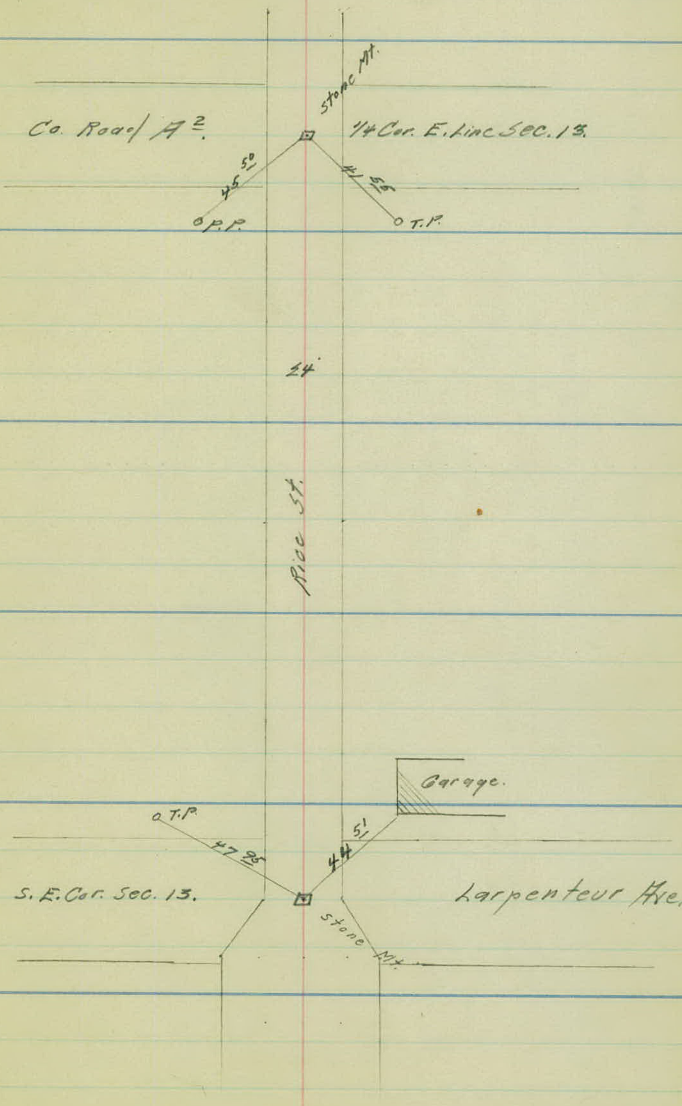
Alignment from Carpenter Ave.

to Co Road A 2.

Sta.	Point	Δ Lt	Δ Rt.
26+32º	P.O.T.		
0+00			

N. 00°-00' E.

10-26-27


Stone Mt.
Co. Road A 2.
1/4 Cor. E. Line Sec. 13.
45 50
41 56
O P.P.
O T.P.
24
Rice St.
Garage.
O T.P.
47 25
44
51
S. E. Cor. Sec. 13.
Larpenteur Ave.
Stone Mt.

Proj. # 28-01 B
Rice St.
Art. Topog. From Sta. 0+00
to Sta. 27+00

Sta.	Lt. Edge of Pave.	Rt.
2+00	12	11
1+00	12	12
0+00		
-100		

+00 T.P. 21

+63 Bldg. 48.8

+50 End of Wall 32

+33 Bldg 47

+31 ℄ Conc. Steps 3' Wide

+14 Mail Box 22

+10 Stone Wall 33
2' High.

+95 T.P. 22

+70 Bldg 39.3

+70 Cor. Walk 27

+50 P.P. 19

+44 P.P. 19.

+39 ℄ Gas Pumps 28

+30 Bldg. 33.3

+24 Cor. Conc Walk 24

+29 P.P. 20

+22 I. R./ Sign 21

-01 Pave 12' L. & 12' R.

-16 End Rubble Gutter.
1.5 X 6 X 14

-30 End of Curb

-32 End of Curb 23

-38 Catch Basin

-40 Man hole 5

-42 Catch Basin

-48.5 Pave 5' L. & 5' R.

-54 T.P. 26

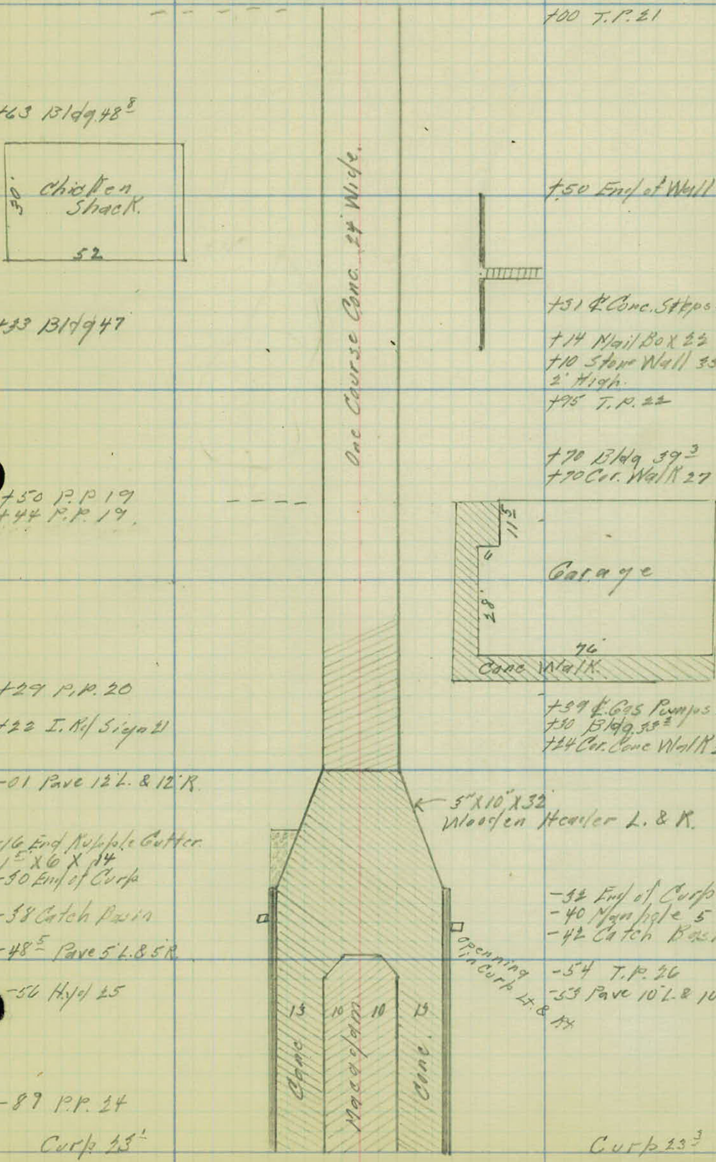
-56 Hyd 25

-53 Pave 10' L. & 10' R.

-89 P.P. 24

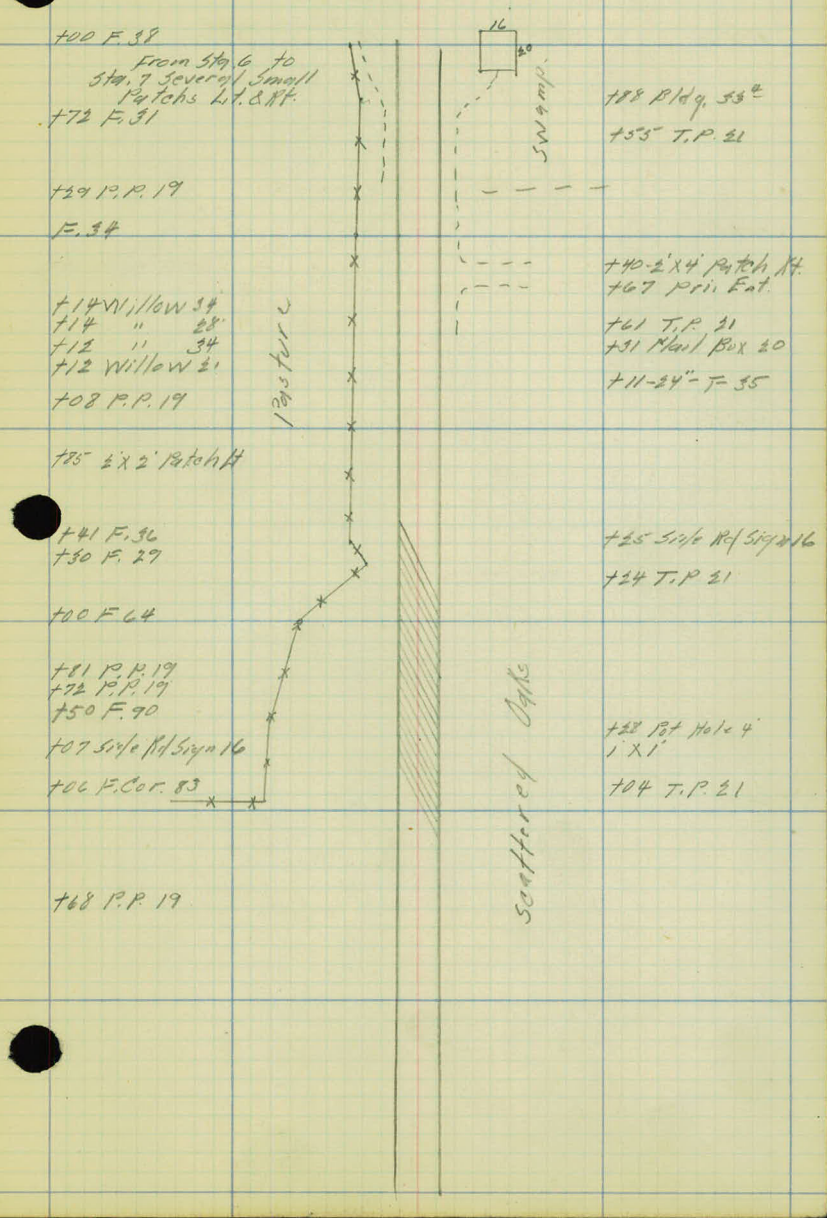
Curb 23.1

Curb 23.3



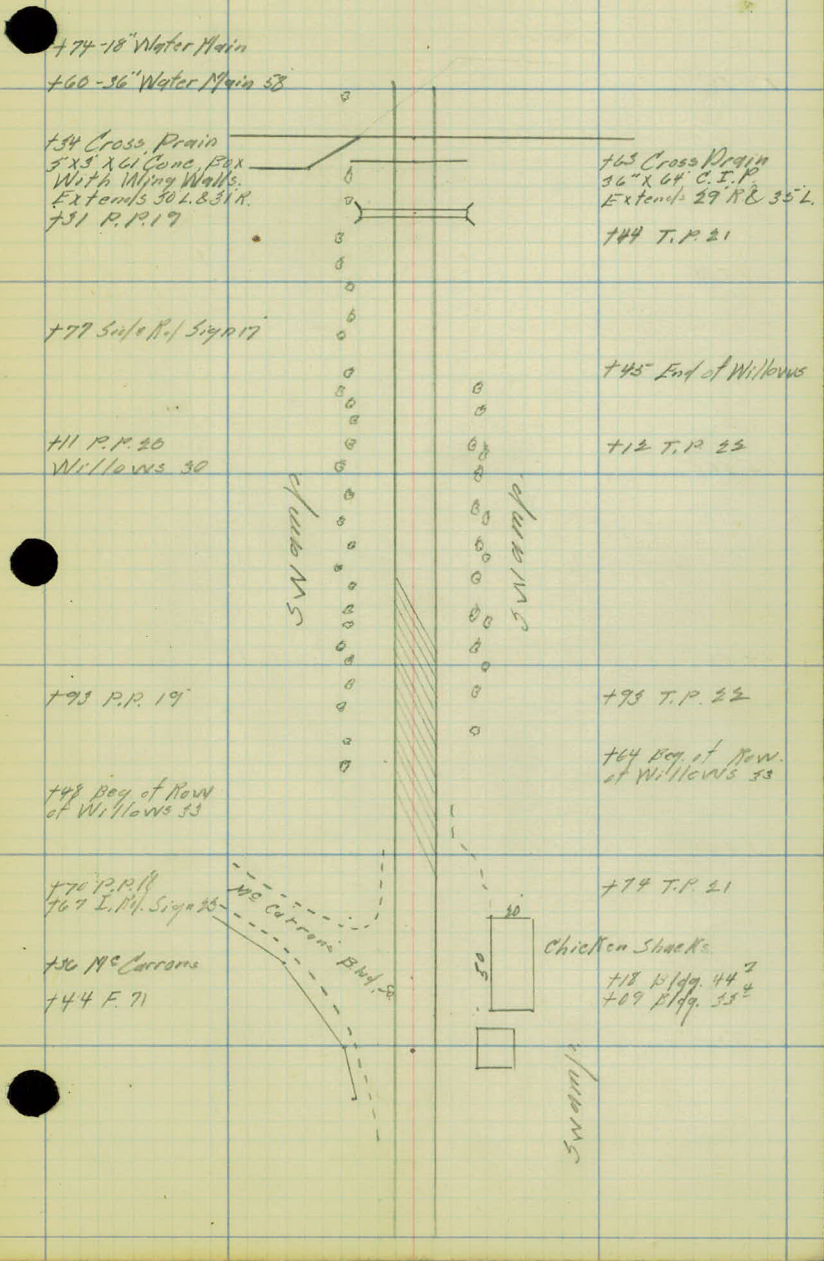
7 +00	$12\frac{1}{2}$	$11\frac{3}{4}$
6 +00	$12\frac{4}{5}$	$11\frac{7}{8}$
5 +00	$12\frac{6}{7}$	$11\frac{4}{5}$
4 +00	12	12
3 +00	$12\frac{2}{3}$	$11\frac{2}{3}$
2 +00		

10-26-27


+00 F. 38
From Sta. 6 to
Sta. 7 Several Small
Patchs Lt. & Rt.
+72 F. 31
+29 P.P. 19
F. 34
+14 Willow 34
+14 " 28
+12 " 34
+12 Willow 21
+08 P.P. 19
+75 2'X2' Patch Rt
+41 F. 36
+30 F. 27
+00 F. 64
+81 P.P. 19
+72 P.P. 19
+50 F. 90
+07 Side Rd Sign 16
+06 F. Cor. 83
+68 P.P. 19
Pasture
16
SW Swamp
+88 Bldg. 33 Rt
+33 T.P. 21
+40 2'X4' Patch Rt.
+67 Pri. Ent.
+61 T.P. 21
+31 Mail Box 20
+11-24" T 35
+25 Side Rd Sign #16
+24 T.P. 21
Scattered Oaks
+22 Bot Hole 4'
1'X1'
+04 T.P. 21

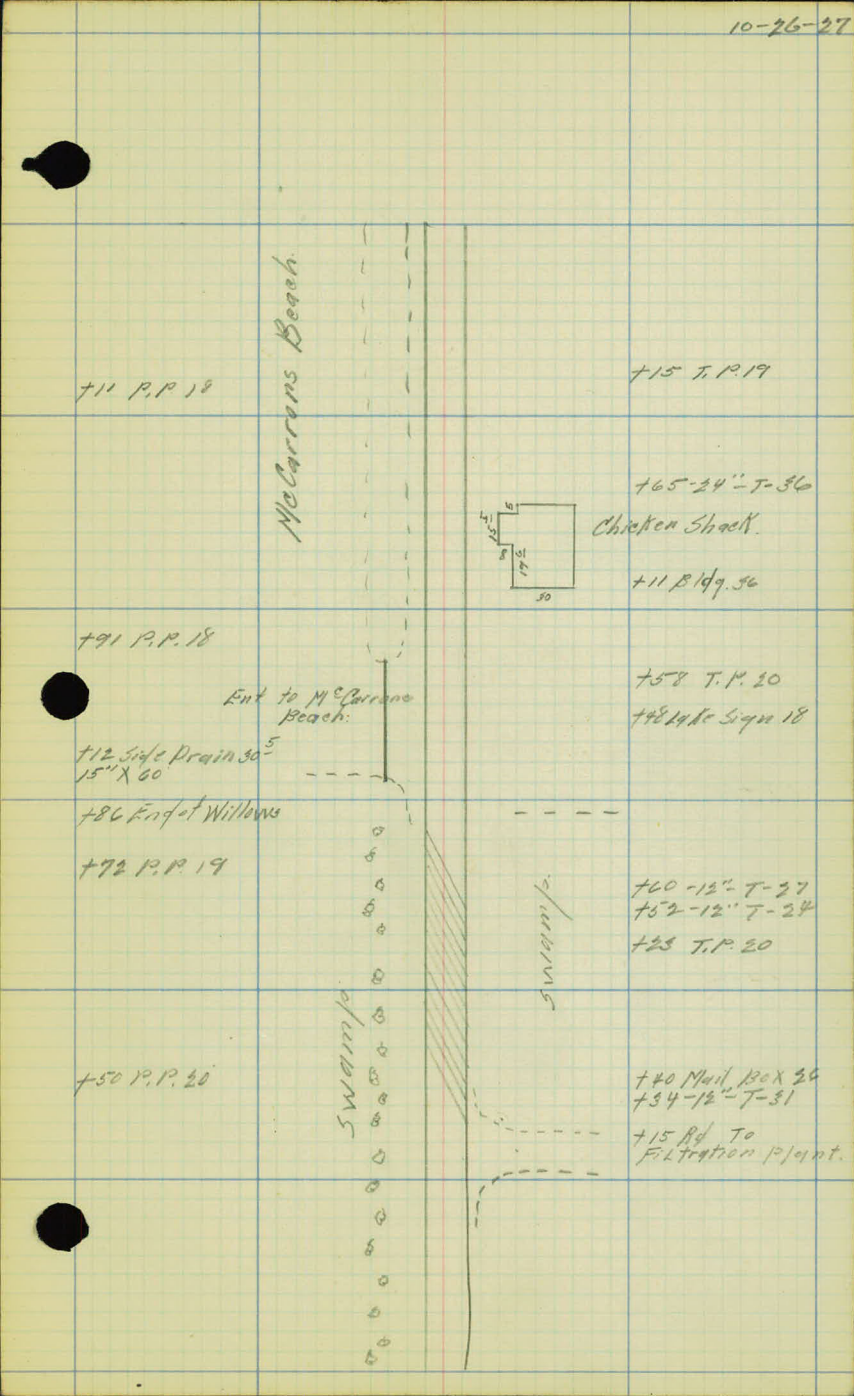
12 700	$12\frac{7}{}$	$12\frac{5}{}$
11 700	$12\frac{5}{}$	18^{7}
10 700	12°	12°
9 700	$12\frac{2}{}$	$11\frac{8}{}$
8 700	$11\frac{8}{}$	$12\frac{2}{}$
7 700		

10-26-27


+74 - 18" Water Main
+60 - 36" Water Main 58
+54 Cross Drain
3'X3'X61 Conc. Box
With Wing Walls.
Extends 30 L. 83 R.
+31 R.P. 19
+63 Cross Drain
36"X64' C.I.P.
Extends 29 R & 35 L.
+44 T.P. 21
+79 Safe Rd Sign 17
+45 End of Willows
+11 P.P. 20
Willows 30
+12 T.P. 22
Willows
Willows
+93 P.P. 19
+93 T.P. 22
+64 Beg. of Row
of Willows 33
+48 Beg. of Row
of Willows 33
+70 P.R.P.
+67 L.P. Sign 25
+79 T.P. 21
Mc Carrons Blvd. 50
+36 Mc Carrons
+44 F. 71
40
50
Chicken Shacks
+18 Bldg. 44
+09 Bldg. 33
Willows

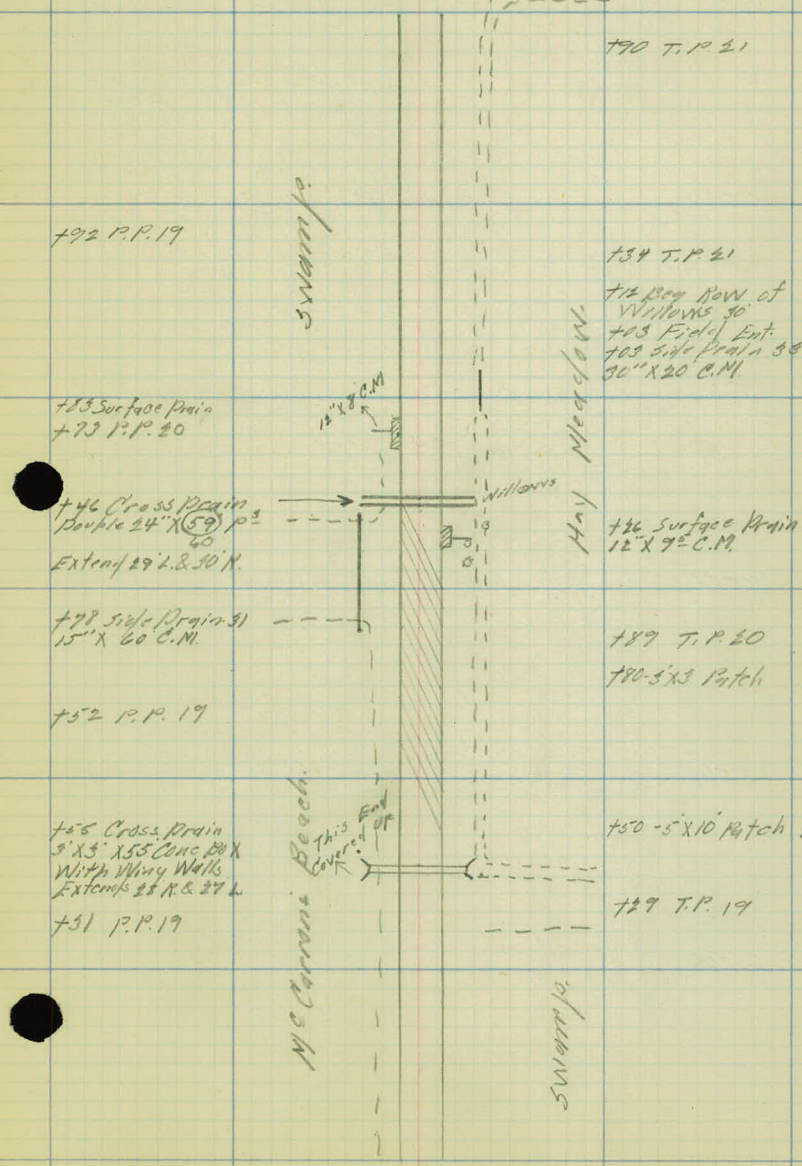
17700	12^{0}	12^{0}
16700	11^{8}	12^{2}
15700	11^{6}	12^{4}
14700	12^{0}	12^{3}
13700	12^{0}	12
12700		

10-26-27


McCarrans Beach
+11 P.P. 18
+91 P.P. 18
Ent to McCarrans Beach.
+12 Side Drain 30-5
15" X 60
+86 End of Willows
+72 P.P. 19
+50 P.P. 20
Swamp
Swamp
+15 T.P. 19
+65-24"-T-36
Chicken Shack.
+11 Bldg. 36
+58 T.P. 20
+98 Lake Sign 18
+60-12"-T-37
+52-12"-T-24
+23 T.P. 20
+40 Mail Box 36
+34-12"-T-31
+15 Rd To Filtration Plant.

22700	$11\frac{5}{8}$	$12\frac{3}{8}$
21700	$12\frac{3}{8}$	$11\frac{5}{8}$
20700	$12\frac{0}{8}$	$12\frac{0}{8}$
19700	$12\frac{3}{8}$	$11\frac{7}{8}$
18700	$12\frac{4}{8}$	$11\frac{4}{8}$
17700		

10-26-27


+90 T.P. 21
+92 P.P. 19
+34 T.P. 21
+12 Beg. Row of Willows 30'
+03 Field Ent.
+03 S.W.C. Drain 36" X 20 C.M.
Swamp
Hay Meadow
+23 Surface Drain
+73 P.P. 20
12" X 8' C.M.
Willows
+46 Cross Drain Double 24" X (59) 40
Extend 29' L. & 30' R.
+26 Surface Drain 12" X 9' C.M.
+78 Side Drain 31
15" X 60 C.M.
+89 T.P. 20
+80-5'X3' Patch
+52 P.P. 19
+56 Cross Drain 3'X3' X55 Conc. Box With Wing Walls
Extends 28' R. & 27' L.
This End Covered Up
+50 -5'X10' Patch Rt.
+31 P.P. 19
+29 T.P. 19
McCanna Beach
Swamp

27700

732 13 5/8 10 5/8

26700 13 1/8 10 7/8

25700 13 0 11 0

24700 12 6/8 11 5/8

23700 11 7/8 12 3/8

22700

+59 Side Drain 28
8" x ? V.T.

+99 Filling Sta. 45

+11 Side Drain 24⁵
15" x ? Conc Culv.

+91 P.P. 20

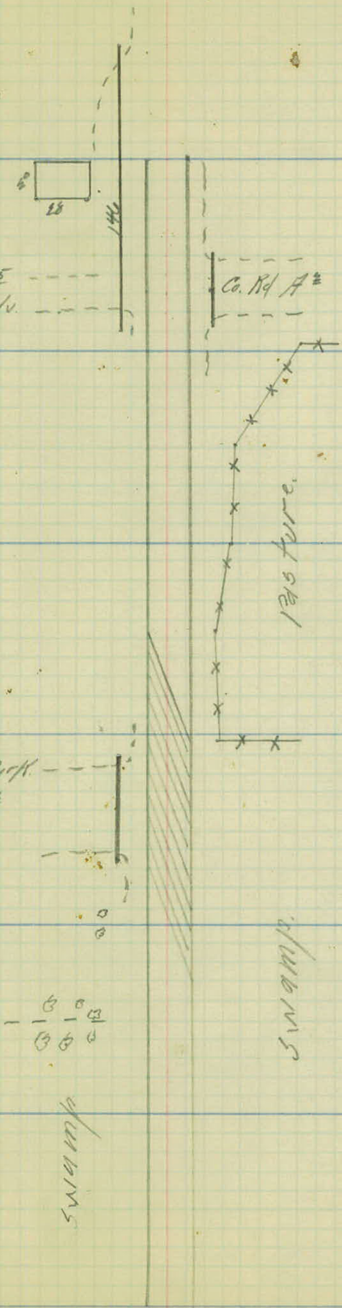
+51 P.P. 20

+62 Ent Sunset Park

+35 Side Drain 28²
18" x 54' C.M.

+33 P.P. 19

+08 P.P. 19



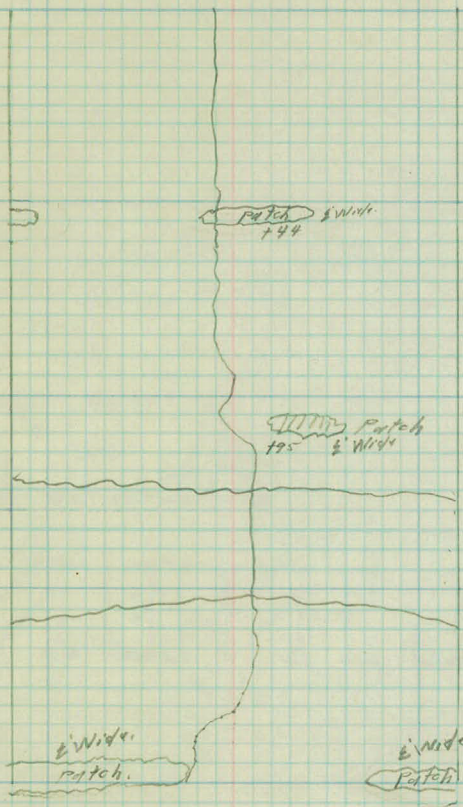
+91 T.P. 19
+56 Co. Rd Sign 27
+32 Side Drain 22
15" x 40' P²
+03 F. Cor. 71
+95 T.P. 19
+52 F. Cor. 38
F. 35
+62 T.P. 19
+56 F. 27
+98 F. Cor. 27²
+98 -24" T- 23
+70 Side Rd Sign 16
+83 End of Willows 29
+33 T.P. 21
+13 Guy Pole 25

2 700

1700

0 700

10-31-27



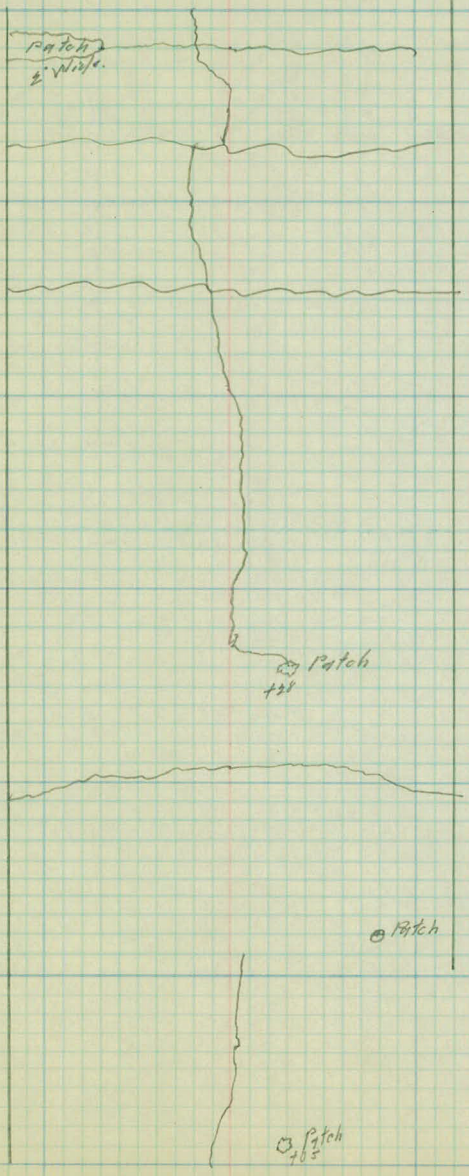
5700

4700

3700

2700

10-31-27



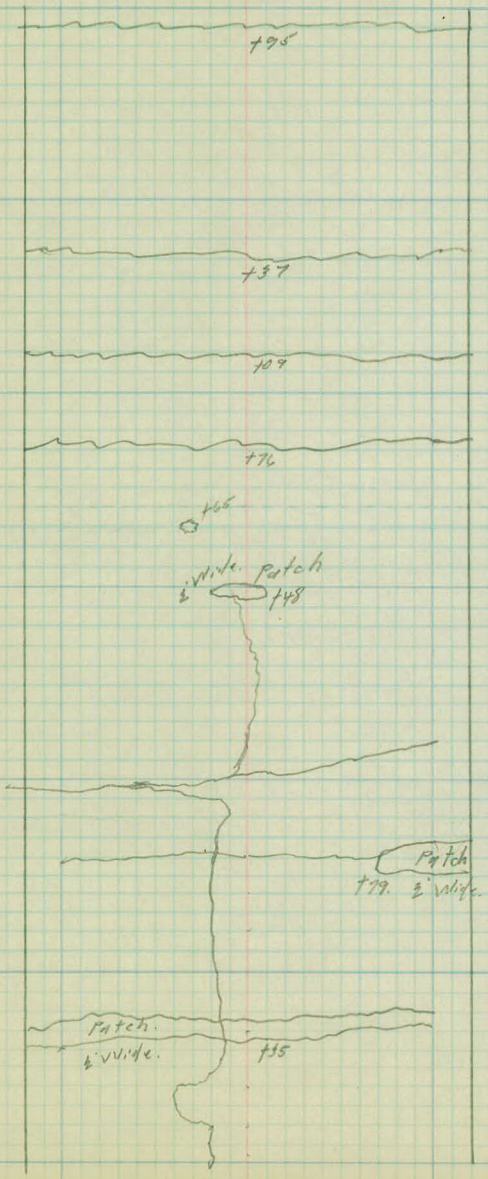
8700

7700

6700

5700

10-31-27



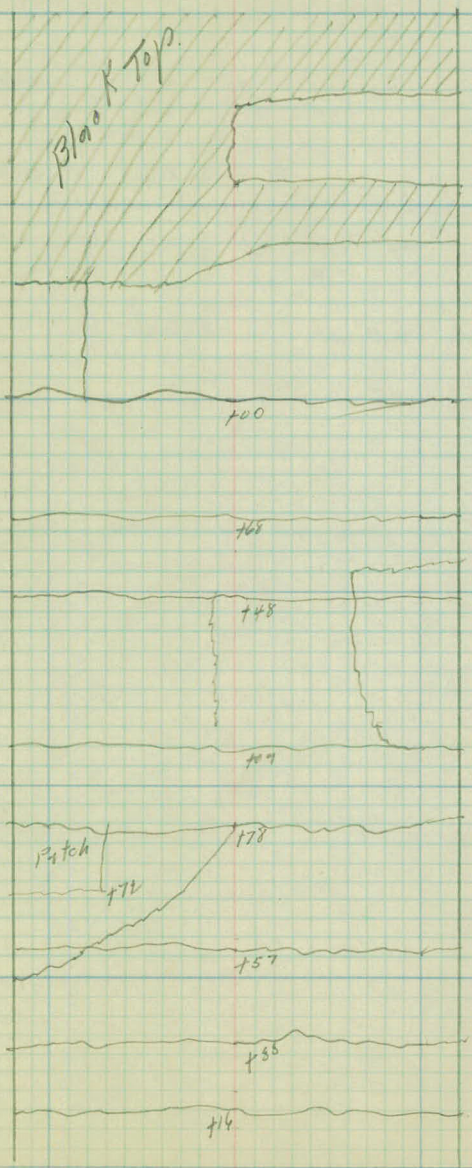
11700

10700

7700

8700

10-31-27



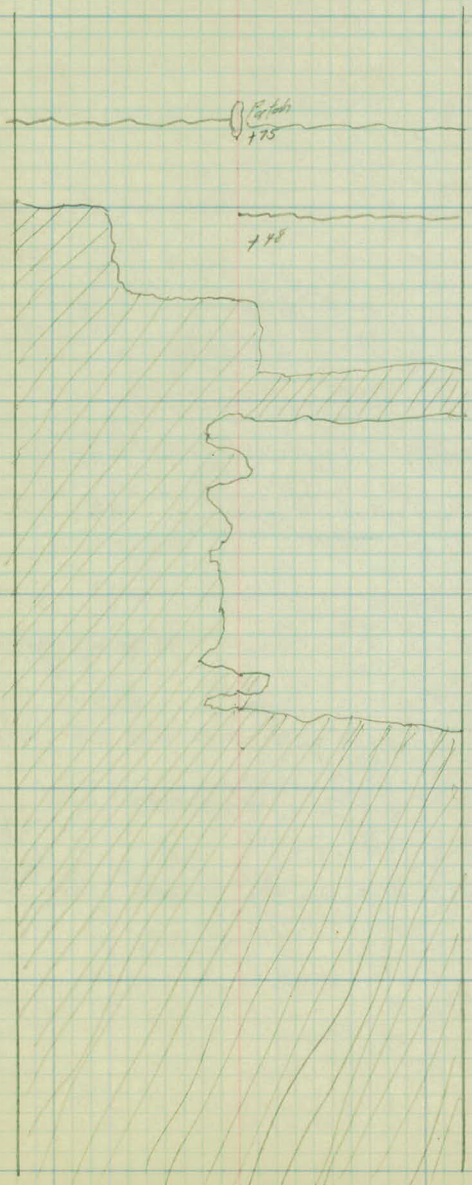
14700

13700

12700

11700

10-31-27



17700

16700

15700

14700

10-31-27

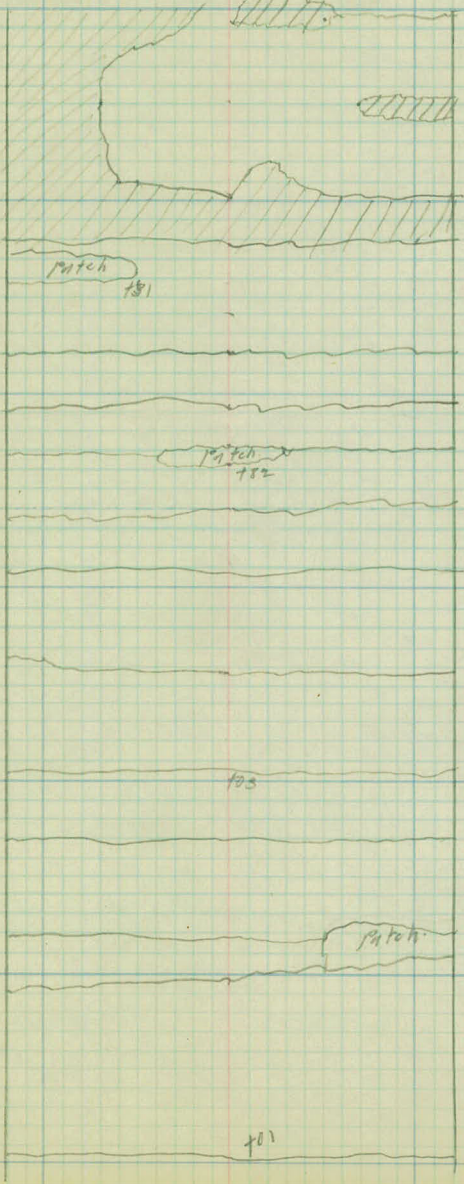
20700

19700

18700

17700

10-31-27



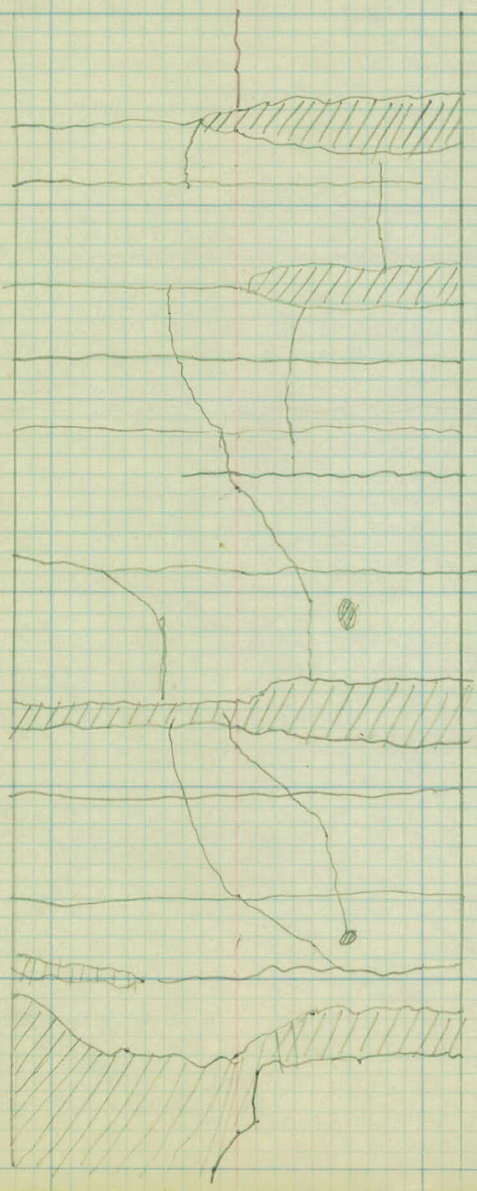
£3 7 00

£2 7 00

£1 7 00

£0 7 00

10-31-27



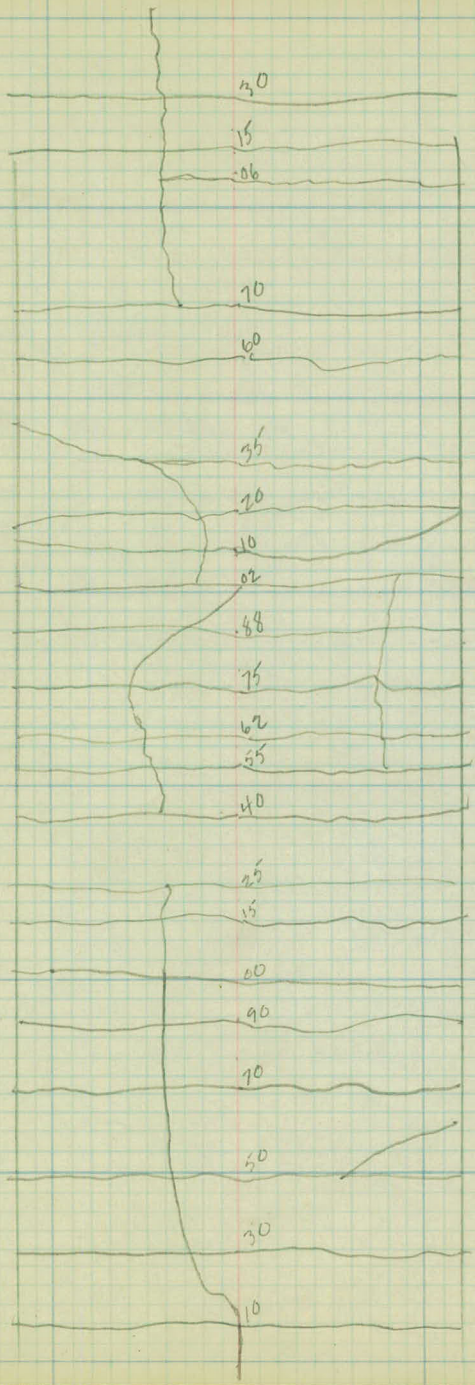
$6700

$5700

$4700

$3700

10-31-27



RICE ST.

SOUNDINGS

From Larpenteur to Co. Rd "A2"

PROJ 28-01A

Sounding	Location	Depth	Kind of Material
No. 1	15' Rt. Sta. 7+78	0 - 1.5'	Clay
		1.5' - 2'	Crushed Rock
		2' - 9'	Sand
		9' - 11'	Clay
		11' - 11.5'	Peat
		11.5 -	Sand
No. 2	15' Lt. Sta. 7+78	0 - 1'	Clay
		1' - 2'	Crushed Rock
		2' - 10'	Sand
		10' - 12'	Clay
		12' -	Sand
No. 3	15' Lt. Sta. 8+00	0' - 1'	Clay
		1' - 9'	Sand
		9' - 10'	Black Bog
		10' - 11'	Clay
		11' - 12'	Peat
		12' -	Sand
No. 4	15' Lt. Sta. 9+00	0 - 0.5'	Clay
		0.5' - 3'	Sand
		3' - 6'	" (Red)
		6' - 12'	Sand
		12' - 15	Clay (Very Wet)
		15 - 21'	Black Bog
		21' -	Clay Very Wet

9-29-1927 Cloudy & Cold

Pavement in Fair Cond. Party { Goldberg, Smith, Celski

Pavement in Fair Cond.

Pavement in Fair Cond.

Soundings unnecessary below last layer of Sand because Pavement in Fair Cond.

Pavement on Lt. in Poor Cond.

Clay assumed below 21'

Sounding	Location	Depth	Kind of Material
No. 5	15' Rt. Sta. 9+50	0 - 1'	Clay
		1' - 10'	Sand
		10' - 12'	Clay (Very Wet)
		12' -	" " "
No. 6	15' Lt. Sta. 10+00	0 - 1'	Clay
		1' - 1.5'	Crushed Rock
		1.5' - 10'	Sand
		10' - 12'	Clay (Very Wet)
		12' -	" " "
No. 7	31' Lt. Sta. 10+00	0 - 8'	Clay (Very Wet)
		8' -	" " "
No. 8	33' Rt. Sta. 9+50	0 - 11'	Clay (Very Wet)
		11' -	" " "
No. 9	33' Lt. Sta. 9+00	0 - 2'	Sand
		2' - 9'	Bog Black
		9' - 11'	Clay (Very Wet)
		11' -	" " "
No. 10	15' Rt. Sta. 10+00	0 - 11'	Sand
		11 - 17	Clay (Very Wet)
		17' -	" " "

9-30-27 Cloudy & Cold

Pavement on Lt. in Poor Cond.

Clay assumed below 12' [Party {Goldberg, Smith, Celski, Braun}

Pavement on Lt. in Poor Cond.

Clay assumed below 12'

Clay assumed below 8'

Clay assumed below 11'

Clay assumed below 11'

Clay assumed below 17'

Sounding	Location	Depth	Kind of Material
No. 11	15' Rt. Sta. 10+50	0-2'	Sand
		2'-3'	Crushed Rock
		3'-8'	Sand
		8-14'	Clay (Very Wet)
		14'-	" " "
No. 12	32' Rt. Sta. 10+00	0-6'	Sand
		6'-17'	Clay (Very Wet)
		17'-	" " "
No. 13	31' Rt. Sta. 10+50	0-21'	Clay
		21'-23'	Peat
		23-24'	Clay (Very Wet)
		24'-	" " "
No. 14	15' Lt. Sta. 10+50	0-3'	Clay
		3'-4'	Crushed Rock
		4'-7'	Sand
		7-11	Clay
		11-13	Sand
		13-23	Clay (Very Wet)
		23-	" " "

Pavement on Lt. in Poor Cond.

Clay assumed below 14'

Clay assumed below 17'

Pavement on Lt. in Poor Cond.

Clay assumed below 24'

Clay assumed below 23'

Sounding	Location	Depth	Kind of Matl
No. 15	15' Lt. Sta. 11+00	0-4'	Clay
		4-5'	Crushed Rock
		5-8'	Clay
		8-17'	Sand (Wet)
		17-20'	Clay (Very Wet)
	(Assumed)	20'-	" " "
	2 Men forced	½" Pipe down to	21'
	10# hammer	" " " "	30'
No. 16	15' Lt. Sta. 11+50	0-3'	Sand
		3-10'	Clay
		10'-18'	Sand (Wet)
		18'-28'	Clay (Very Wet)
	2 Men forced	½" Pipe down to	27'
	10# hammer	" " " "	36'
No. 17	32' Lt. Sta. 10+50	0-3'	Clay
		3-14'	Sand (Wet)
		14-18'	Clay (Wet)
		18-22'	Sand (Very Wet)
		22-29'	Clay (" ")
	2 Men forced	½" Pipe down to	32'
	10# hammer	½" " "	36'

10-1-27 Cloudy & Cool

Pavement on Lt. in Poor Cond.

Material too wet to adhere to auger below this depth
At this depth pipe broke

Pavement on Lt. in Poor Cond.

Material too wet to adhere to auger below this depth
Pipe broke at this depth

Material too wet to adhere to auger below this depth
Pipe broke at this depth

Sounding	Location	Depth	Kind of Material
No. 18	30' Lt Sta. 11+00	0 - 2'	Clay
		2 - 13	Sand
		13 - 19	Clay
		19 - 23	Sand (Wet)
		23 - 27	Clay (Very Wet)
	(Assumed)	27 -	" " "
No. 19	15' Rt Sta. 11+00	0 - 8'	Sand
		8 - 25'	" (Wet)
No. 20	15' Rt Sta. 11+50	0 - 10'	Clay
		10' - 39'	Sand (Wet)
		39 - 43'	Peat
		43 -	Sand & Water
80# Weight forced 2" Pipe 48' down			
No. 21	15' Lt Sta. 12+00	0 - 6'	Sand
		6 - 9'	Clay
		9 - 27'	Sand (Wet)
		27 - 28'	Clay

10-3-27 Cloudy & Cool

Material too wet to adhere to auger below this depth

" " " " " " "

Rate of penetration is 1.5" per drop of 80# wt dropped 3'
Between 35' & 48' Penetration is 0.5"

Pavement in Poor Condition Lt.

Material too wet to adhere to auger below this depth

Sounding	Location	Depth	Kind of Material
No. 22	15' Lt. Sta. 12+50	0 - 13'	Sand (wet)
		13' - 20'	Clay "
	2 Men forced ½" Pipe 35' down		
No. 23	15' Rt. Sta. 12+50	0 - 4'	Sand
		4' - 5'	Crushed Rock
		5' - 13'	Sand
		13' - 17'	Clay Wet
		17 - 18'	Sand "
No. 24	75' Lt. Sta. 11+50	0 - 19'	Black Bog
		19' - 28'	Sand Very Wet
	2 Men forced ½" Pipe 30' down		
	10# hammer " " " 40' "		
No. 25	60' Rt. Sta. 11+50	0 - 14'	Black Bog
		14 - 27'	Sand Very Wet

10-9-27 Cloudy & Cold

Pavement on Lt. in Poor Cond.

Material too wet to adhere to auger below this depth

Pipe broke at this depth

Material too wet to adhere to auger below this depth.

Sounding Location Depth Kind of Material

Note: Altho Soundings Nos. 20, 22 & 25 have already been taken, we have again taken soundings at the same stations with better equipment, thus making the previous soundings void.

No. 20 15' Rt. Sta. 11+50 0-10' Clay
10'-39' Wet sand
39'-43' Peat
43'-45' Quicksand (Mostly water)

80# hammer forced 2" pipe down 42'
Penetration at 35' = 1.5" per drop of 3'
" at 42' = 0.25" " " " "

No. 22 15' Lt. Sta 12+50 0-13' Wet Sand
13'-20' " Clay
20-43' Quicksand

80# hammer forced 2" pipe down to 41'
Penetration at 41' = 0.25" per drop of 3'
" " 30' = 2" " " " "

Sounding	Location	Depth	Kind of Matl
No. 25	60' Rt. Sta. 11+50	Elev. = 5.8' lower than ℄ of Rice St.	
		0-40'	Black Bog
		40'-41'	Peat
		41'-49'	Quicksand
80# hammer forced 2" pipe down 48'			
Penetration at 36' = 2" per drop of 3'			
" " 48' = 0.25" " " "			
No. 26	60' Rt. Sta. 12+50	Elev = 5.9' lower than ℄ of Rice St.	
		0-38'	Black Bog
		38'-42'	Quicksand
80# hammer forced 2" pipe down 48'			
Penetration at 42' = 0.25" per drop of 3'			
" " 30' = 3" " " " "			
No. 27	15' Lt. Sta. 21+00	0-12'	Sand
		12'-21'	Clay
		21-24	Sand & Bog
		24-	

Pavement in poor Condition

Stone or some other solid object prevented soundings below 24'

Sounding	Location	Depth	Kind of Matl
No. 28	15' Rt. Sta. 21+50	0-17'	Sand
		17'-25'	Clay
		25'-27'	Black Bog
		27'-30'	Peat
		30'-34'	Black Bog
		34-37'	Clay
		37-42'	Quicksand
80#	hammer forced 2" pipe down 42'		
	Penetration at 42' = 0.25" per drop of 3'		
	" " 36' = 2" " " " "		
No. 29	60' Rt. Sta. 21+50	Elev. = 5.3' lower than ℄ of Rice St.	
		0-32'	Bog
		32'-39'	Peat
		39-41'	Clay
		41-43'	Quicksand
80#	hammer forced 2" pipe down 42'		
	Penetration at 42' = 0.25" per drop of 3'		
	" " 30' = 1" " " "		
No. 30	15' Rt. Sta. 22+00	0-12'	Sand
		12'-27'	Clay
		27-31'	Peat
		31-38	Clay
		38-39	Quicksand

Pavement on Rt. in poor Cond.

Pavement on Rt. in poor Cond.

Proj. # 28-01 A.
Rice St.
X Sections from Sta.
0+00 to Sta. 26+50

Sta.	+	H. I.	−	Rod.	Elev
B.M.	5.14	870.37		865.23	
−1.00				2.90	67.47
−50				4.11	66.26
−25					65.58
0+00					64.99
0+25					64.52
0+50					63.96
0+75					63.33
1+00					62.84
T.P.				1.31	869.06
1+25					61.99
T.P.	1.40	866.63	5.14	865.23	
1+50					61.63
1+75					61.05
2+00					60.60
2+25					60.07

10-27-27

Spk in Arc Light Pole Int Largo. & Rice St. # B.

3.7 3.1 3.4 4.5 5.6 5.22 4.87 (4.8) 4.87 5.16 5.0 5.0 4.8 4.6
60 50 40 30 20 15 10 4.79 10 20 25 35 50 60

6.5 6.7 7.0 6.5 5.3 5.38 5.37 5.4 5.41 5.47 5.1 5.0 5.3 5.3
60 50 40 27 18 12 6 5.38 6 12 18 33 50 60

(5.9) on side Walk

7.3 6.3 5.5 6.0 5.5 5.94 5.87 5.90 6.00 5.4 4.77 4.75
60 50 40 32 19 12 6 5.85 6 12 25 27 60

(6.4)

8.2 7.1 6.5 6.48 6.43 6.46 6.52 5.8 4.75 4.64
60 50 36 12 6 6.41 6 12 26 26 32 Blvd.

(7.0)

8.3 8.4 8.2 7.4 7.10 7.09 7.08 7.11 6.4 5.2 5.3 6.6 5.4
60 50 40 27 12 6 7.04 6 12 24 35 44 50 60

(7.5)

8.0 8.0 7.7 7.62 7.56 7.58 7.63 7.2 6.2 4.0 3.7 3.2
60 50 36 12 6 7.53 6 12 20 27 35 50 60

Above HZ + 5.4 6.5

(8.4)

On Step

8.3 8.3 8.1 8.0 8.14 8.15 8.14 8.26 7.9 7.0 4.8 4.4 +0.2 +0.7 +5.3
60 50 41 29 12 6 8.38 6 12 24 33 33 36 45 50 60

(5.0)

4.6 4.7 5.15 4.99 5.05 5.14 4.9 4.2 3.2 1.2 0.9
Blvd. 48 24 12 6 5.00 6 12 18 25 33 33 37

(5.6)

4.7 4.7 5.2 5.5 5.67 5.58 5.63 5.67 5.4 4.2 0.3
60 50 32 23 12 6 5.58 6 12 20 30 36

(6.0)

5.5 5.7 5.9 6.3 6.0 6.15 6.07 6.08 6.14 5.7 4.6 1.1
60 50 40 34 18 12 6 6.03 6 12 21 27 35

(6.6)

0.2 5.7 6.8 6.6 6.65 6.60 6.63 6.71 6.6 5.6 4.0 0.6
45 37 29 20 12 6 6.32 6 12 19 27 32 35

Sta	+	H.I	−	Rod	Elev.
		866.63			
2+50					859.61
2+75					59.07
3+00					58.59
3+25					58.0
3+50					57.45
3+75					56.89
4+00					56.40
4+25					55.87
T.P.			11.48	855.15	
T.P.	10.69	879.75		869.06	
1+50		869.06 / 2.01			
1+75					
1+25					
1+50					

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7.0

2.2 5.5 6.5 7.0 7.6 7.1 7.05 7.00 — 7.09 7.18 7.0 7.1 6.5 0.4
37 31 30 28 22 20 12 6 — 7.02 6 12 16 22 28 36

7.6

2.2 5.2 7.6 8.0 7.6 7.62 7.56 — 7.64 7.71 8.1 7.7 7.7 6.6 0.9
37 33 27 21 18 12 6 — 7.56 6 12 12 14 20 28 37

8.0

1.9 3.6 7.7 7.6 8.7 7.3 8.1 8.4 8.18 8.04 — 8.07 8.18 8.5 8.2 8.3 7.4 3.7 1.0
35 32 26 24 21 19 15 12 12 6 — 8.04 6 12 12 14 22 29 34 38

8.6

1.0 2.3 7.8 7.6 7.1 8.7 8.0 8.74 8.64 — 8.69 8.75 9.0 8.7 9.0 8.6 2.0
37 34 27 18 17 14 12 12 6 — 8.63 6 12 12 14 20 26 38

9.2

6.2 8.6 10.3 9.9 9.3 9.4 9.31 9.22 — 9.23 9.24 9.4 9.1 9.0 9.6 9.9 8.2 0.6
38 34 27 20 18 12 12 6 — 9.18 6 12 12 14 18 21 27 32 40

9.7

4.5 7.8 10.8 10.7 9.9 9.87 9.78 — 9.79 9.85 9.9 10.4 10.1 7.6 6.5 2.5
41 35 32 20 18 12 6 — 9.74 6 12 20 22 31 34 36 43

10.2

3.9 7.4 11.5 11.3 10.3 10.32 10.25 — 10.29 10.35 10.3 10.8 8.8 5.4 3.1 4.0 6.4
40 37 30 21 18 12 6 — 10.23 6 12 18 31 34 40 41 50 60

10.8

↗ Above H.I. — 17.9 16.8 16.2
60 50 46 ↖

10.8 11.2 12.4 11.8 11.9 12.0 11.0 10.7 11.0 10.80 10.74 — 10.81 10.91 11.4 10.7 10.9 11.7 11.8 13.3 15.1
60 45 42 38 28 21 18 15 12 12 6 — 10.76 6 12 12 14 20 23 28 34 38

On Strip.

18.1

10.1 8.2 5.8 5.8
43 53 64 70

18.7

6.5 5.2 4.4 3.9
43 50 60 70

19.7

6.8 6.1 6.1
70 60 50

20.1

6.1
50

Sta.	+	H.I.	−	Rod	Elev.
		879.75			
2+75					
3+00					
3+25					
3+50					
3+75					
4+00					
T.P.	9.94	885.92	5.77	875.98	
2+00					
2+25					
2+50					
2+75					
3+00					
3+25					
3+50					

10-27-27

$\frac{6.5}{50}$ (20.7)

$\frac{2.6}{50}$ $\frac{6.5}{75}$ (21.2)

$\frac{2.2}{50}$ (21.8)

$\frac{1.3}{62}$ $\frac{9.4}{50}$ (22.3)

$\frac{3.7}{61}$ $\frac{7.3}{50}$ (22.9)

$\frac{1.6}{60}$ $\frac{10.0}{50}$ (23.4)

(25.2) $\frac{8.8}{47}$ $\frac{6.2}{52}$ $\frac{3.8}{54}$ $\frac{5.8}{65}$

(25.8) $\frac{12.9}{72}$ $\frac{7.2}{50}$ $\frac{4.8}{52}$ $\frac{5.4}{65}$ $\frac{6.0}{75}$

(26.3) $\frac{4.8}{50}$ $\frac{4.2}{60}$ $\frac{4.3}{75}$

(26.8) $\frac{12.4}{44}$ $\frac{7.8}{50}$ $\frac{4.4}{54}$ $\frac{3.5}{65}$ $\frac{2.0}{75}$

(27.3) $\frac{11.2}{45}$ $\frac{7.5}{50}$ $\frac{4.2}{55}$ $\frac{2.8}{65}$ $\frac{2.0}{75}$

(27.9) $\frac{13.0}{48}$ $\frac{10.2}{52}$ $\frac{2.9}{56}$ $\frac{2.7}{70}$ $\frac{2.5}{75}$

(28.4) $\frac{5.4}{57}$ $\frac{5.1}{70}$ $\frac{5.3}{75}$

Sta.	+	H.I.	−	Rod	Elev.
		885.92			
3+75					
4+00					
T.P.	11.29	896.24	0.97	884.95	
3+75					
T.P.	8.74	904.40	0.58	895.66	
2+50					
2+75					
3+00					
3+25					
3+50					
T.P.	0.50	896.14	8.74	895.64	
T.P.	1.11	886.05	11.22	884.94	
T.P.	0.57	873.79	12.83	873.22	
T.P.	2.61	864.61	11.79	862.00	
T.P.	1.99	857.14	9.48	855.13	855.15
4+50					855.30
4+75					54.76
5+00					54.09

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(29.0) 13.5 13.4 13.7
5-7 70 75

4.8 5.8 (29.5)
80 70

4.7 4.7 5.3 9.5 (39.3)
100 91 82 74

20.0 18.7 15.8 17.0 (44.8)
100 90 80 71

6.3 6.5 6.7 10.0 (45.3)
108 95 83 80

1946 F83

5.8 5.6 5.2 6.6 9.8 (46.8)
104 96 83 77 74

2.5 2.6 3.2 12.0 (46.4)
110 95 82 69

6.0 5.8 6.3 (46.9)
110 100 90

Alava H.I.

7.1.0 0.3 1.3 1.9 2.0 2.8 2.1 1.9 2.1 1.86 1.83 (1.8) 1.91 1.99 2.3 2.0 2.5 2.5 8.0 9.8 10.0
60 50 37 34 32 21 18 14 12 12 6 1.84 6 12 12 14 22 30 40 50 60

(2.4)

4.4 4.8 4.8 3.2 3.5 2.6 2.57 2.45 2.45 2.57 2.8 2.5 2.4 4.4 6.9 9.7 11.1 11.9
60 50 41 35 20 17 12 4 2.38 6 12 12 14 18 25 29 40 50 60

6.6 6.0 5.0 4.4 4.2 4.2 3.0 3.0 3.17 3.10 (3.1) 3.06 3.12 3.2 3.0 4.2 9.6 10.9 13.7 14.6
60 50 37 35 32 24 18 15 12.5 6 3.05 6 11.5 13 18 27 29 39 50 60

Sta.	+	H.I.	−	Rod	Elev.
		857.14			
5+25					853.45
5+50					52.92
5+75					52.36
6+00					51.89
T.P	3.06	854.70	5.50	851.64	
6+25					51.48
6+50					51.06
6+75					50.64
7+00					50.20
7+25					49.77
7+50					49.32
7+75					48.83
T.P	1.72	849.73	6.69	848.01	49.53
8+00					48.39
8+25					47.91

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3.7

7.2 6.8 5.2 4.5 3.8 3.5 3.10 3.72 | 3.73 3.76 3.6 5.7 6.6 10.7 13.1 14.0 15.0
60 50 38 21 19 16 12.5 6 3.69 6 11.5 18 24 31 37 45 50 60

4.2

8.2 7.6 6.8 6.5 5.9 5.6 4.2 4.34 4.24 | 4.28 4.34 4.4 6.2 7.3 11.5 12.4 13.0
60 50 38 30 31 24 20 12.5 6 4.22 6 11.5 19 24 39 40 50 60

4.8

8.7 8.2 7.9 7.3 6.7 6.2 5.0 4.92 4.80 | 4.85 4.92 5.4 11.3 13.4 14.3
60 50 47 35 21 24 21 12.5 6 4.78 6 11.5 22 39 47 60

? 3.12

5.3

8.8 8.8 8.2 7.5 6.7 5.2 5.38 5.26 | 5.28 5.38 5.7 11.0 14.4 15.8 18.3 18.5
60 50 48 33 24 17 12.3 6 5.25 6 11.2 21 30 46 50 55 60

3.2

6.1 6.4 5.3 4.5 3.5 3.28 3.22 | 3.27 3.39 3.7 3.3 3.2 6.8 12.3 15.0 16.5
60 50 31 22 20 12.3 6 3.22 6 11.2 12 16 19 25 34 50 60

3.6

6.0 6.1 6.5 6.5 5.8 5.7 5.9 5.66 5.63 | 5.68 5.79 5.9 5.8 12.6 15.3 17.1
60 50 40 32 30 27 21 12.3 6 5.64 6 11.2 12 20 34 50 60

4.1

6.2 6.3 5.9 5.3 4.5 4.12 4.06 | 4.15 4.24 4.9 7.2 9.2 11.2 15.2 17.4
60 50 30 22 18 12.5 6 4.06 6 11.5 28 33 36 50 60 70

4.5

6.6 6.3 6.1 6.6 6.5 5.3 4.54 4.50 | 4.57 4.67 4.5 4.4 4.7
60 50 37 35 33 29 12 6 4.50 6 12 16 21 33 BIND

4.9

7.2 7.1 7.0 5.8 5.01 4.96 | 5.01 5.12 4.8 4.7 4.7
60 50 45 28 18 6 4.93 6 12 26 37 45 BIND

5.4

7.0 7.5 7.1 5.3 5.45 5.39 | 5.40 5.14 5.2 4.9 5.2
60 50 45 18 12 6 5.38 6 12 27 40 45 BIND

5.14

5.9

5.9

5.87

8.7 9.8 10.0 11.8 10.3 5.8 5.96 5.89 | 5.93 6.01 5.7 5.2
60 50 43 38 27 16 12 6 5.87 6 12 27 45

4.3

9.5 9.1 8.0 6.4 1.6 1.2 1.32 1.32 | 1.42 1.52 1.3 6.9 0.9 11.8 12.0
60 50 37 27 19 16 12 6 1.34 6 12 14 19 35 50 60

1.8

11.0 10.6 10.5 7.0 1.9 2.00 1.90 | 1.88 1.95 1.7 2.0 11.4 12.7 13.4
60 50 44 27 17 12 6 1.82 6 12 18 23 39 50 60

Sta.	+	H.I.	−	Rod	Elev.
		849.73			
8+50					847.37
8+75					46.74
9+00					46.20
T.P.	2.17	847.87	4.05	845.68	
9+25					45.81
9+50					45.51
9+75					45.13
10+00					44.70
T.P.	3.16	847.67	3.36	844.51	
10+25					44.27
10+50					44.05
10+75					43.71
11+00					43.28
11+25					42.90
11+34	Cross Drain				
11+50					42.80
11+63	Cross Drain				

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13.0	13.1	11.4	9.2	3.1	2.5	2.68	2.45	(2.4)	2.36	2.43	2.6	2.5	7.6	12.1	13.0	13.5	14.0
60	50	40	31	18	15	12	6	2.36	6	12	12	19	26	39	45	50	60

Water (at 12.9, right)

14.5	14.0	13.5	12.0	3.2	3.38	3.12	(3.0)	3.04	3.10	3.3	2.9	3.1	8.1	12.9	13.5	14.5
60	50	43	34	18	12	6	2.99	6	12	12	14	18	26	44	50	60

Waters Edge (at 14.8, left) — Water (at 13.4, right)

15.5	15.0	14.8	11.8	3.7	3.77	3.61	(3.5)	3.59	3.74	3.6	6.5	12.9	13.4	14.5	15.0
60	50	43	32	17	12	6	3.53	6	12	18	22	33	35	50	60

Waters Edge (at 11.8, left) — Waters Edge (at 11.7, right)

12.1	12.5	11.8	10.7	6.3	2.1	2.25	2.13	(2.1)	2.15	2.34	2.3	11.1	11.7	12.9	13.3	14.0
60	50	38	33	25	18	12	6	2.06	6	12	17	33	35	46	50	60

Waters Edge (at 11.7, left) — Waters Edge (at 11.7, right)

13.0	12.4	11.7	10.2	6.7	2.5	2.4	2.7	2.51	2.39	(2.4)	2.42	2.60	2.6	10.4	11.7	12.7	13.2
60	50	43	34	24	18	14	12	12	6	2.36	6	12	18	31	39	50	60

Waters Edge (at 11.7, left) — Waters Edge (at 11.9, right)

13.7	13.3	11.7	8.6	3.3	2.95	2.80	(2.7)	2.76	2.89	2.7	7.9	11.9	12.8
60	45	34	28	18	12	6	2.74	6	12	18	25	38	60

Waters Edge (at 12.7, left) — Waters Edge (at 11.7, right)

14.0	13.7	12.7	11.7	3.7	3.49	3.24	(3.2)	3.19	3.28	3.3	6.9	11.0	11.7	12.3	12.9
60	40	33	31	19	12	6	3.17	6	12	18	23	32	36	50	60

Nail in P.P. Lt. Sta. 16+45

Waters Edge (at 11.4, left) — Waters Edge (at 11.5, right)

14.0	13.8	13.3	11.4	7.0	4.0	3.97	3.47	(3.4)	3.44	3.60	3.8	6.4	11.5	12.6	13.0	13.0
60	50	41	31	26	19	12	6	3.40	6	12	19	22	32	42	50	60

W.E. (at 11.4, left) — Waters Edge (at 11.4, right)

13.0	12.8	12.9	11.4	7.7	4.3	4.24	3.70	(3.6)	3.63	3.95	4.2	4.0	6.7	11.4	13.3	14.0
60	50	42	31	26	19	12	6	3.62	6	12	12	18	22	31	40	60

W.E. (at 11.4, left) — W.E. (at 11.4, right)

14.0	13.7	13.3	11.4	8.8	4.8	4.66	4.04	(4.0)	3.96	4.30	4.3	6.5	11.4	12.1	12.8	13.0
60	50	40	31	26	19	12	6	3.96	6	12	18	22	29	38	50	60

W.E. (at 11.4, left) — W.E. (at 11.4, right)

14.0	13.7	13.3	11.4	8.7	5.0	5.12	4.61	(4.4)	4.38	4.67	4.8	7.5	11.4	12.3	13.5	14.0
60	50	40	29	24	17	12	6	4.59	6	12	18	24	30	40	50	60

W.E. (at 11.4, left) — W.E. (at 11.4, right)

11.2	11.4	12.2	11.4	8.1	5.7	5.23	4.95	(4.8)	4.84	4.99	5.0	6.0	8.6	10.9	11.4	13.3	14.0
60	50	41	30	23	19	12	6	4.77	6	13	18	22	26	31	32	50	60

W.E. (at 11.4, left)

15.20 / 30 — 15.0 / 31

12.0	11.4	10.8	11.0	11.7	5.7	5.4	5.74	5.15	(4.9)	4.83	5.18	5.3	9.0	10.6	11.5	12.0
60	54	49	31	24	18	14	11.5	6	4.87	6	13.5	19	25	36	47	60

13.14 / 35 — 13.27 / 29

Sta.	+	H.I.	−	Rod	Elev
		847.67			
11+75					842.67
			9.5/32	Top of 36" Water Main Lt.	
			10.0/32	Top of 18" Water Main Lt.	
12+00					42.68
12+25					42.87
12+50					42.99
T.P.	5.11	848.01	4.77		842.90
12+75					43.03
13+00					42.90
13+25					42.79
13+50					42.79
13+75					42.85
14+00					43.02
14+25					43.20
14+50					43.20
14+75					43.25

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W.E.

140	18.3	11.4	7.9	6.9	5.6	5.65	5.18	(5.0)	5.00	5.19	6.0	6.9	8.3	9.8	10.5	11.0
60	50	34	30	23	20	15	6	5.00	6	13	27	32	33	40	50	60

W.E.

13.6	13.7	13.4	12.5	11.5	8.3	5.5	5.51	5.10	(5.0)	5.05	5.89	5.8	6.2	7.0		
60	50	40	34	29	33	17	13	6	4.99	6	12	25	40	60		

(12)

W.E.

15.0	14.0	11.4	8.3	5.8	5.35	4.85	(4.8)	4.94	5.26	5.0	5.5	5.9	6.3	6.5		
60	37	28	21	16	17	5	4.80	6	11	14	25	36	50	60		

W.E.

14.0	13.7	11.4	10.7	8.7	5.9	6.3	5.43	4.77	(4.7)	4.73	5.02	4.9	5.6	5.7	9.5	12.1	11.1	10.2
60	40	27	26	22	17	13	12	6	4.68	6	12	13	19	27	32	44	50	60

W.E.

13.0	13.3	14.3	14.3	11.8	9.1	5.8	5.3	5.30	5.10	(5.0)	5.02	5.44	5.2	5.6	8.2	10.6	11.3	11.7	10.4
60	45	42	34	28	24	18	13	12	6	4.98	6	12	13	20	25	27	41	50	60

W.E

(5.1)

11.8	11.2	11.7	11.5	13.3	11.7	9.0	5.9	5.5	5.76	5.35	5.12	5.43	5.3	5.2	6.4	9.0	10.3	11.5	11.7	11.1
60	50	42	40	36	29	23	17	13	12	6	5.11	6	12	13	17	21	24	27	34	50	60

W.E

12.0	12.1	12.6	11.8	9.2	6.0	5.85	5.33	(5.2)	5.22	5.50	5.2	5.4	W.E. 11.7	12.4	11.7	12.2	11.5	
60	45	40	30	21	16	12	6	5.22	6	12	13	19	28	35	40	50	60	

W.E.

(5.2)

13.0	12.6	13.1	11.8	6.3	5.9	6.16	5.47	5.20	5.03	5.3	6.7	W.E. 11.7	12.6	12.5	13.0			
60	50	40	29	18	13	12	6	5.22	6	12	18	23	29	38	50	60		

W.E.

12.8	13.0	11.8	8.4	5.6	5.5	5.21	5.20	(5.2)	5.19	5.31	5.4	5.9	11.3	11.7	11.6	11.9		
60	34	27	21	17	13	12	6	5.16	6	12	19	25	34	40	50	60		

10.7	11.5	11.2	10.7	5.3	5.35	5.05	(5.0)	5.04	5.15	5.4	10.9	11.2	11.3	11.1				
60	44	35	26	17	12	6	4.99	6	12	18	28	36	50	60				

8.8	8.3	6.2	4.9	4.8	5.00	4.87	(4.8)	4.84	4.96	5.2	9.0	9.8	9.7					
60	50	43	35	28	12	6	4.81	6	12	19	24	31	60					

4.9	4.8	4.7	4.7	4.74	4.86	(4.8)	4.85	4.92	4.7	5.1	8.2	8.8	8.6	8.9				
60	50	31	12	12	6	4.81	6	12	15	20	26	39	50	60				

4.8	4.7	5.0	4.9	4.91	4.77	(4.8)	4.86	4.95	5.1	6.5	7.8	8.0	8.3					
60	50	34	25	12	6	4.76	6	12	17	21	29	50	60					

Sta.	+	H. I.	−	Rod	Elev.
		848.01			
15+00					843.32
15+25					43.43
15+50					43.57
B.M.	454	848.82	3.73	844.28	
15+75					43.72
16+00					43.86
16+25					44.00
16+50					44.09
16+75					44.16
17+00					44.20
17+25					44.17
17+50					44.08
17+55	Cross Drain				
17+75					43.95
18+00					43.82

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4.8 5.0 5.1 6.7 6.7 4.7 4.5 4.76 4.71 (4.7) 4.77 4.90 5.2 5.0 5.4 5.6 5.9
60 50 36 32 28 25 17 12 6 4.67 6 12 12 18 30 30 60

4.7 4.7 5.0 6.6 6.5 4.9 4.65 4.61 (4.6) 4.66 4.74 4.8 4.6
6.0 50 35 31 26 23 12 6 4.58 6 12 23 36 Bldg.

4.7 4.6 4.5 6.1 6.1 5.0 4.7 4.54 4.48 (4.4) 4.49 4.55 4.5 4.5
60 50 35 30 25 23 11 11 6 4.44 6 13 22 37 Bldg.

Spk in P.P. Lt. Sta 16+11 (5.1)
5.3 5.2 5.1 6.7 6.6 5.3 5.12 5.17 5.15 5.22 5.2 4.9 5.6 6.1
60 50 34 30 26 23 11 6 5.10 6 13 25 30 50 60

5.5 5.5 5.1 7.0 6.7 5.3 5.14 5.05 (5.0) 4.76 4.78 4.8 5.3 6.2
60 50 35 31 26 24 12 6 4.74 6 12 27 50 60

Old Cellar

5.4 5.2 6.5 6.5 5.3 5.07 4.90 (4.8) 4.80 4.80 4.7 4.7 5.0 7.4 8.3
60 34 31 26 23 12 6 4.82 6 12 21 27 35 37 60

5.6 5.6 5.3 6.6 6.4 5.3 5.0 4.87 (4.7) 4.68 4.68 4.6 4.7 2.7 3.3 6.6 8.0 5.0
60 50 36 31 26 23 12 6 4.78 6 12 20 28 32 45 50 55 60

5.5 5.3 5.3 6.3 6.4 5.4 4.91 4.76 (4.7) 4.66 4.68 5.0 6.1 7.0 7.6
60 47 34 31 26 24 12 6 4.66 6 12 26 37 50 60

5.2 5.2 6.8 6.3 5.3 4.82 4.69 (4.6) 4.63 4.67 4.5 4.2 4.8 7.0 8.1 8.4
60 36 31 26 24 12 6 4.62 6 12 17 22 33 37 50 60

5.3 5.1 5.1 6.4 6.4 5.1 4.75 4.68 (4.7) 4.68 4.74 4.5 5.0 5.6 6.6 7.9 8.6 9.1 9.3
60 50 35 32 26 24 12 6 4.65 6 12 16 21 23 31 39 46 50 60

(4.7)
5.2 5.4 6.7 6.7 5.2 4.9 4.90 4.81 4.82 4.92 4.6 5.3 7.8 10.5 10.6 10.0 9.7
60 34 33 27 24 17 12 6 4.74 6 12 14 20 25 32 40 50 60

12.05
28

5.5 5.5 5.8 7.4 7.2 5.5 5.01 4.94 (4.9) 4.91 5.00 5.4 10.6 11.8 12.1 9.2 10.1 10.6
60 50 36 33 27 24 12 6 4.87 6 12 20 29 30 32 34 50 60

5.8 6.0 6.0 7.5 7.5 5.7 5.18 5.08 (5.0) 5.03 5.10 5.4 10.3 11.7 12.0 10.1 10.4 7.9 10.3
60 50 36 33 27 23 12 6 5.00 6 12 18 30 31 33 34 40 50 60

Sta.	+	H.I.	−	Rod.	Elev
		848.82			
18+25					843.70
18+50					43.57
T.P.	3.63	848.49	3.96	844.86	
18+75					43.46
19+00					43.39
19+25					43.31
19+46	Cross Drain				
19+50					43.27
19+75					43.58
20+00					43.59
20+25					43.17
20+50					43.42
20+75					44.10
21+00					44.33
21+25					44.68

10-29-27.

11.0 10.4
60 45

6.2 6.3 6.1 8.1 7.8 6.0 5.35 5.20 (5.1) 5.18 5.28 5.0 11.6 10.5 11.6 12.1 10.9 9.7
60 50 37 33 27 23 12 6 5.12 6 12 21 26 31 32 33 34 36

10.7 10.5 10.6
20 30 42

6.6 6.6 6.4 8.4 8.6 6.4 5.47 5.31 (5.2) 5.30 5.39 5.4 6.1 10.8 11.7 12.0 10.5 9.7
60 50 37 33 28 24 12 6 5.25 6 12 16 21 31 31 33 34 35

Nail in P.P. Lt. Sta. 18+50

6.3 6.5 6.0 8.1 8.2 5.8 5.4 5.22 5.05 (5.0) 5.09 5.26 5.5 7.7 9.8 11.2 11.8 9.9 10.4 10.4 10.4
60 50 35 33 29 26 18 12 6 5.03 6 11.5 19 26 30 31 33 34 45 50 60

6.5 6.5 6.4 5.5 5.19 5.09 (5.1) 5.25 5.44 6.0 8.9 9.6 11.1 11.1 9.8 10.1 10.3
60 50 39 28 12 6 5.10 6 12 20 25 29 30 32 34 50 60

6.7 6.7 6.8 5.8 5.31 5.14 (5.2) 5.37 5.64 5.8 5.7 10.9 11.1 9.7 10.1 10.1
60 50 40 25 12 6 11.90 5.18 6 11.5 21 30 31 33 35 50 60 12.5

9.5 9.7 9.9 10.7 10.9 5.5 5.21 5.34 5.19 (5.2) 5.39 5.50 5.0 5.4 10.7 11.5 11.6 10.8 10.2 10.2
60 50 41 36 32 21 13 12 6 5.22 6 12 13 20 30 31 34 36 50 60

9.8 9.6 10.4 11.0 10.8 6.1 5.3 5.6 5.29 5.03 (4.9) 5.06 5.30 5.0 5.3 10.6 11.7 10.9 10.4 10.3
60 50 38 36 29 20 14 13 12 6 4.91 6 12 13 18 28 36 44 50 60

9.7 9.8 10.5 10.8 10.7 9.9 6.2 5.5 5.76 5.21 (4.9) 4.85 5.01 5.0 10.8 10.9 9.4 8.7 9.7
60 50 40 37 32 26 19 13 11 6 4.90 6 12 19 30 39 44 50 60

9.6 9.6 10.7 10.6 5.6 5.4 5.70 5.52 (5.3) 5.10 5.02 5.5 10.6 11.0 10.3 10.3 9.7 9.1
60 50 40 31 17 13 12 6 5.32 6 12 20 29 34 36 45 50 60

9.6 9.8 10.4 10.9 10.8 5.7 5.2 5.72 5.37 (5.1) 4.87 4.75 5.1 10.6 11.0 10.8 10.3 9.9 9.0
60 50 42 41 30 20 13 12 6 5.07 6 12 20 29 30 34 35 50 60

9.4 9.5 10.3 10.8 10.8 10.1 5.1 5.15 4.82 (4.9) 4.52 4.49 5.0 9.1 11.0 10.8 11.0 10.5 10.2 9.5 9.0
60 50 39 38 32 28 21 12 6 4.59 6 12 21 28 32 33 35 38 42 50 60

9.4 9.3 10.3 10.5 10.4 9.7 4.9 4.5 4.72 4.56 (4.2) 4.50 4.52 4.3 4.3 8.7 9.8 10.3 10.8 10.4 10.0 9.6 9.2
60 50 39 37 32 29 20 14 12 6 4.16 6 12 13 18 27 33 34 40 45 47 50 60

9.1 9.1 9.8 10.0 9.9 4.4 4.0 4.20 3.95 (3.8) 4.15 4.39 3.9 4.3 10.0 11.0 10.8 9.7
60 50 40 37 30 20 13 12 6 3.81 6 12 18 25 40 45 56 60

Sta.	+	H.I.	-	Rod	Elev.
		848.49			
21+50					844.92
21+75					45.25
22+00					45.92
22+25					46.71
T.P.	6.53	852.78	2.24	846.25	
22+50					47.70
22+75					48.77
23+00					49.73
23+25					50.73
23+50					51.75
23+75					52.58
T.P.	7.57	859.86	0.49	852.29	
24+00					53.51
24+25					54.47
24+50					55.36
T.P.	9.94	866.19	3.61	856.25	

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8.7	9.0	9.3	9.7	9.3	4.1	3.6	3.73	3.57	3.6	3.32	4.16	3.8	3.6	8.7	10.4	11.1	10.4	9.7			
60	50	43	34	30	22	15	12	6		3.57	6	12	13	19	27	34	41	51	60		
8.5	8.5	8.9	8.6	3.4	2.7	3.12	3.16		3.7	3.44	3.67	3.3	3.7	10.3	11.4	10.4	9.9	9.8			
60	50	37	31	19	14	12	6			3.24	6	12	15	22	29	37	46	48	60		
8.2	8.2	8.0	8.2	7.6	2.8	2.2	2.60	2.46	3.6	2.72	2.97	2.7	7.3	9.1	9.7	10.4	9.8				
60	50	40	33	28	21	14	12	6		2.57	6	12	18	24	31	42	49	60			
7.4	7.3	7.4	7.5	6.7	1.4	1.4	1.57	1.61	1.8	2.05	2.30	2.0	1.8	6.4	8.7	9.6	9.8	9.7			
60	50	38	31	27	19	13	12	6		1.78	6	12	13	17	24	32	40	50	60		
10.9	10.7	10.4	9.6	5.2	4.85	4.95			5.1	5.27	5.71	5.5	5.7	10.4	12.7	14.0	14.0				
60	50	34	26	20	12	6				5.08	6	12	14	17	25	34	50	60			
7.3	8.9	9.1	8.6	4.5	3.81	3.88			4.0	4.32	4.66	4.4	8.3	9.4	12.2	13.2	13.5	13.7			
60	50	34	26	20	12	6				4.01	6	12	17	23	26	31	40	50	60		
4.9	5.5	5.9	7.1	6.9	5.3	3.2	3.3	2.94	2.99	3.3	3.45	3.2	3.7	7.9	12.6	13.1	13.1	13.2			
60	50	35	34	27	24	19	12	12	6	3.05	6	12	13	18	25	33	41	50	60		
2.6	2.7	2.8	3.7	5.5	5.5	4.9	3.7	1.7	3.02	3.04											
60	50	47	37	32	31	22	22	14	12	6	2.05	6	12	18	18	24	31	37	50	60	
0.9	0.3	1.2	1.1	1.15	1.05				1.0	1.09	1.19	1.0	1.1	5.2	6.8	9.2	10.4	10.5			
60	50	34	15	12	6					1.03	6	12	12	18	24	26	31	50	60		
0.5	0.6	0.5	0.3	0.44	0.29				0.7	0.20	0.25	0.1	0.0	6.4	6.8	7.4	8.9				
60	50	32	14	12	6					0.20	6	11	13	18	24	38	50	60			
8.3	8.6	8.8	8.8	6.6	6.4	6.55	6.41		6.4	6.40	6.46	6.3	6.5	10.4	10.9	10.1	11.7	13.3	13.8	14.9	
60	50	40	26	19	14	13	6			6.35	6	11	14	19	23	26	27	35	44	50	60
4.7	3.2	5.8	6.8	6.8	5.9	5.3	5.47	5.44	5.4	5.38	5.57	5.9	8.4	9.6	6.9	8.0	9.5	11.1	12.2		
46	33	23	22	21	21	14	12	6		5.42	6	11¼	18	20	23	24	34	42	50	60	
0.5	1.9	4.0	4.2	4.9	4.3	4.57	4.50		4.5	4.35	4.64	4.50	4.8	6.7	6.7	3.6	3.7	5.8	7.8		
35	29	26	23	22	21	12¼	4			4.30	6	11½	13	17	20	21	24	32	45	60	

Sta.	+	H. I.	−	Rod	Elev.
		866.19			
24+25					
24+50					
24+75					856.29
25+00					57.16
25+25					58.09
25+50					59.14
25+75					60.16
26+00					61.19
T. P.	13.11	878.68	0.62	865.57	
24+50					
24+75					
25+00					
25+25					
25+50					

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11.8

5.2	6.9
60	50

10.8

0.0	1.3	4.5
50	47	37

9.9

3.7	9.5	10.1	10.6	10.6	10.0	10.02	9.96	9.94	10.01	9.9	10.8	11.9	11.9	5.1	4.6	5.6	6.3	6.8
40	32	24	22	21	20	13	6	7.90	6	11	17	20	22	23	28	31	40	50	60

9.0

2.9	7.6	9.8	9.9	9.9	9.3	9.15	9.09	9.09	9.17	9.2	10.1	10.7	8.0
38	27	24	23	22	21	13	6	9.03	6	11	17	19	23	24					

8.10

2.4	6.6	8.6	9.2	8.1	7.9	8.12	8.09	8.15	8.23	8.5	9.6	10.0	6.6
36	28	25	21	19	14	13	6	8.10	6	11	20	21	24	26					

7.1

2.7	3.4	7.1	7.6	8.5	8.5	7.0	6.9	7.16	7.09	7.08	7.12	7.0	8.4	9.0	5.3	1.8
35	31	25	23	22	21	19	14	13	6	7.05	6	11	17	20	24	28	33		

6.8

0.0	1.1	2.1	6.1	7.4	7.4	5.9	5.8	6.07	6.02	6.04	6.13	6.0	6.0	7.9	7.8	3.0	2.7	1.4
41	37	30	24	22	21	19	14	13	6	6.03	6	11	17	18	19	23	28	37	47

5.0

0.1	1.1	2.0	6.8	6.8	5.1	5.07	5.01	5.10	5.12	4.2	4.8	7.2	7.1	3.0	3.4	1.9	1.2
46	38	30	24	22	19	13	7	5.00	5	10	17	19	20	25	28	43	50	64	

23.3

8.6	9.5	12.8
70	60	50

22.4

5.8	5.2	4.0
68	60	55

21.5

4.2	3.4	1.4	0.6	10.7	11.4	12.5
70	65	60	55	35	50	60

20.6

2.9	2.9	2.4	9.1	10.2	11.5	12.7
70	60	53	37	41	50	60

19.5

4.3	3.7	3.1	3.5	3.8	8.1	9.4	9.8	11.2
70	67	63	60	49	38	45	50	60

Sta.	+	H. I.	−	Rod	Elev.
		878.68			
25+75					
26+00					
	4.14	869.71	13.11	865.57	
26+25					862.11
26+32					862.31
26+50					63.05
B.M.			7.87	261.84	

10-30-27

(18.5)

48	48	42	47	8.5	9.7
70	60	54	49	50	60

91	88	90
70	60	52

(17.5)

54	45	5.6	66	75	769	765	(76)	765	773	76	74	73	71	70
60	50	38	28	18	13.5	6		760	6	10.5	11	21	32	50	60

50	59	63	72	73	749	740	(7.4)	742	747	73	72	71	70	70
60	45	34	25	15	13.5	6		740	6	10.5	11	24	36	50	60

59	62	61	65	684	674	(67)	670	677	72	8.6	8.6	8.1	8.1	8.0
60	50	37	24	13.5	6		6.66	6	10.5	20	21	27	38	50	60

Spark in Arc Light Pile 17.5th 25-th 91.