

Book #4, Dr. 11

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

Plan Survey

IONE ST.

From Walnut St. To Pleasant St.

Road Acc't. No. R17

Date Filed 9-19-30

File 30-R17

PROJ. 30-R17

9-19-30

{ Weber
Stooglin
Bell
Stevens
Aug. 11-30

Transit Survey
Tone St.
Proj-30-R-17

Plan Survey

9-19-30

13 + 31.2

£ Pleasant St.

6 + 50.39

£ Eustis St

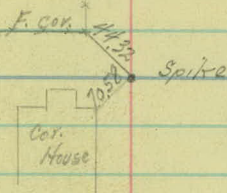
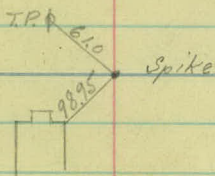
3 + 30.3

£ Malvern St

0 + 00

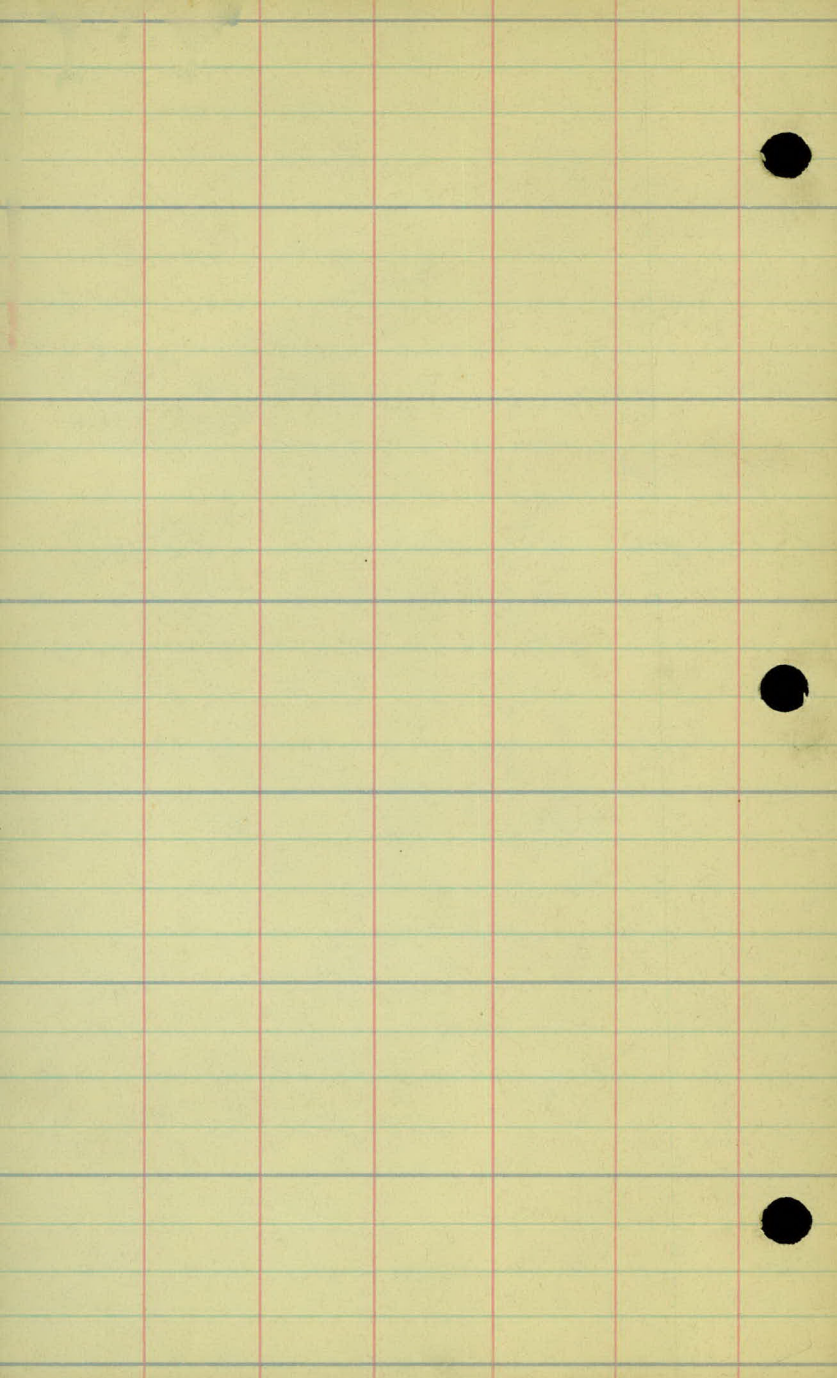
£ Walnut St

Aug. 11-30.



Spike

2" x 2" Hub.



Topog. Survey.

Ione = St.

Proj' 30-R-17

5

4

+302

£ Melvern St

3

2

1

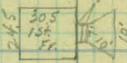
0+00

+99 Stump 17'

+75 Burnt Stump 19'

+36 Burnt Stump 19'

+09 Ctr. Conc. Steps.



- +99 End Culv. 15'
- +98 Cor. Fr. Bldg. 30'
- +92 Ctr. Alley
- +81 End. Side Dr. 15'
- = 10" x 18" C.M.

← 60 →

Vacant +76 P.P. 20'

+90 P.P. 20'

+75 Ob. Dr. To Gr.

- +59 Small Bush 29'
- +49 Small Bush 28'
- +38 Small Bush 28'

+93 P.P. 20'

+303 ± Melvern St.

↑ 60 ↓

+48 End Culv. 14' = 12" x 42" C.M.

+06 W End Culv. 13' +05 P.P. 20'

+99 End Hedge 30'

+18 Beg. Hedge 31'

+16 = 12" Map. 20'

+05 P.P. Dr.

+94 Row Lilac Bush 16'

+87 = 8" Map 14'

- +74 Garden 26'
- +74 P.P. 20'
- +71 End Box Culv. 18'
- +63 Alley
- +64 End Box Culv. 11' = 12" x 12" x 10' Box.

Cult. Patch

Vacant lot

← 60 →

11

10

9

8

7

+50³⁹

L. L. L. St.

6

+82 Ctr. Alley.

+94 P.P. 20'

+65 = 18" Oak 33'

+41 End Wall 30'
6" Conc wall

←60→

- +44 Guy Pole 26'

Garden.

Yard.

+67 P.P. 30'

- +75 End Bushes 21'

6'
10'

+10-10" W.O. 33'

+98 Cor. Pump Ho. 19'

+58 Bush. 18'

+55 End Cult.

+32 P.P. 21'

- +20 Beg. of Row
of 6 Bushes 21'

Church
Yard.

Cultivated.

+36 Ctr. Alley.

- +30 F. Cor 30'

+42 P.P. 21'

+41 F. Cor.

+36 P. Dr.

Garden

Yard.

- +53 P. Dr.

+61 F. Cor. 30.5'

+61 P.P. 20'

Lawn
and
Shrubs.

Vac. lot.

- +84 F. Cor 30'

+12 Stump 22'

+88 Stump 14'

- +65 x Drain
12" x 30' C.M.

+81 P.P. 21'

- +33 End Cult. 23'

23' 7'
Cut Back Pave.

- +19 End Cult. 17'

- 10" x 15' C.M.

6' Path

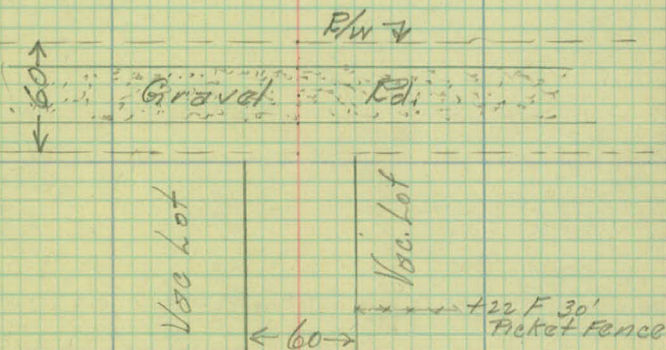
←60→

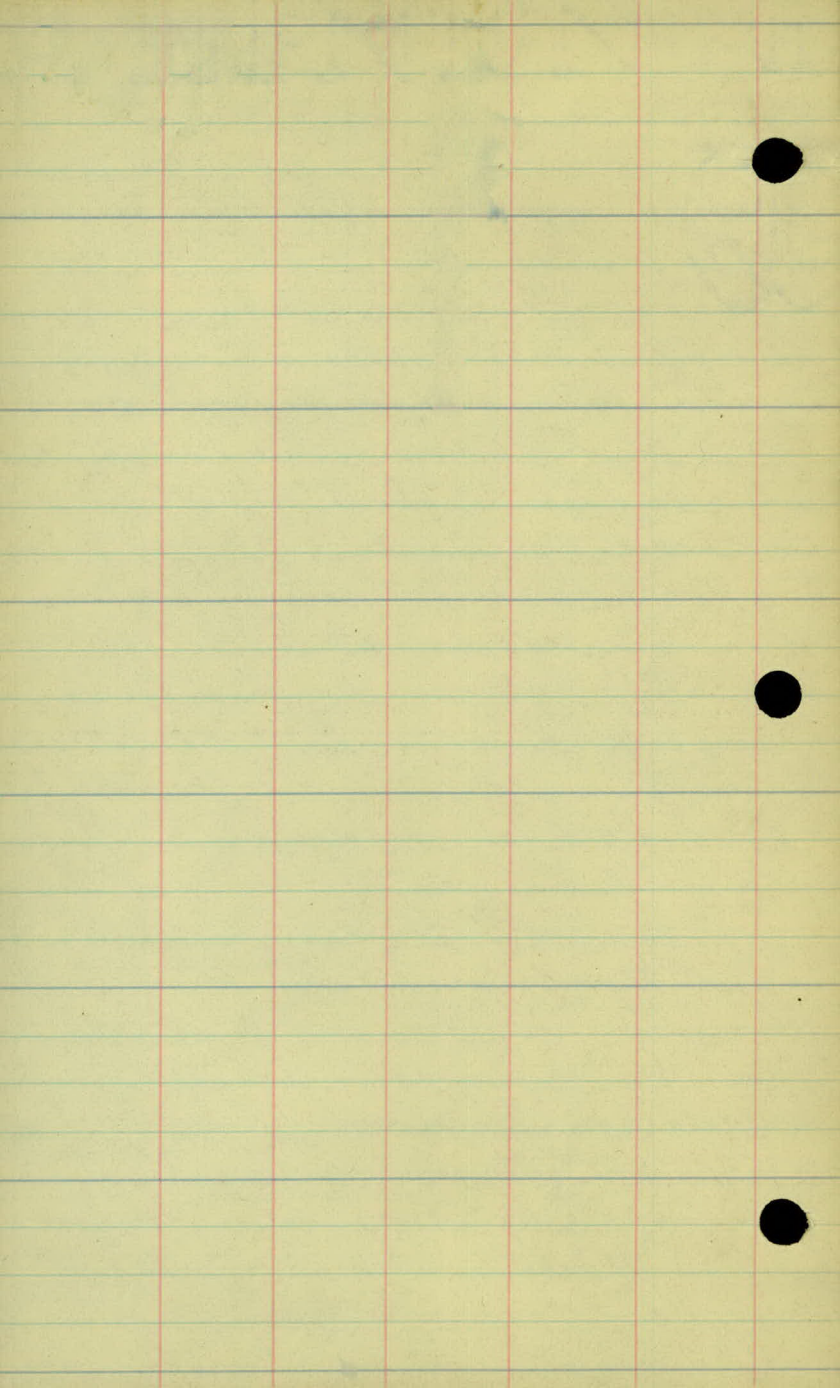
+ 312

£ Pleasant St.

13

12





X. Sections

Tone

Street

Proj 30-R-17

Sta.	+	H.I.	-	Elev
B.M.	0.41	319.89		319.48 ✓
T.P.	10.01	320.93 ✓	8.97	310.92 ✓
B.M.		↕	1.59	319.34 ✓
		320.93		

0+00 16.7

+50 16.4

1 15.4

+50 15.3

2 16.5

T.P. 8.14 326.17 ✓ 2.90 318.03 ✓

+50 19.4

+85 20.8

3 21.0

3

+08 £ Gutter. 21.2

+30 £ Melvern 21.8

Cloudy Warm.

Aug. 11 - 32.

Spike in 12" Tree 15' Lt Sta. 0+00 Spring St. Proj.

Spike in P.P. 81' Rt Sta. 1+71

Left.

±

Right

$\frac{8.0}{100}$	$\frac{7.7}{75}$	$\frac{7.2}{50}$	$\frac{6.8}{37}$	$\frac{4.4}{8}$	4.2	$\frac{4.0}{20}$	$\frac{3.6}{50}$	$\frac{3.7}{75}$	$\frac{3.5}{100}$
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$\frac{8.2}{55}$	$\frac{8.0}{40}$	$\frac{7.1}{30}$	$\frac{6.5}{14}$	$\frac{5.5}{6}$	$\frac{4.5}{4}$	4.5	$\frac{4.3}{13}$	$\frac{4.0}{55}$
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$\frac{7.6}{55}$	$\frac{7.4}{30}$	$\frac{7.2}{12}$	$\frac{6.0}{7}$	5.5	$\frac{5.4}{12}$	$\frac{5.0}{30}$	$\frac{4.0}{55}$
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$\frac{7.2}{55}$	$\frac{7.1}{30}$	$\frac{6.6}{10}$	5.6	$\frac{5.1}{20}$	$\frac{4.7}{30}$	$\frac{3.4}{55}$
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$\frac{4.6}{55}$	$\frac{4.6}{30}$	$\frac{4.8}{8}$	4.4	$\frac{4.4}{12}$	$\frac{5.2}{14}$	$\frac{4.6}{30}$	$\frac{3.4}{55}$
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$\frac{7.7}{55}$	$\frac{7.3}{30}$	$\frac{7.2}{20}$	$\frac{7.7}{18}$	$\frac{7.7}{13}$	$\frac{7.0}{8}$	6.8	$\frac{7.0}{5}$	$\frac{7.5}{13}$	$\frac{6.7}{26}$	$\frac{4.3}{30}$	$\frac{4.1}{37.4}$
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$\frac{5.6}{55}$	$\frac{5.6}{30}$	$\frac{5.6}{21}$	$\frac{6.6}{15}$	$\frac{5.6}{6}$	5.4	$\frac{5.4}{4}$	$\frac{6.4}{7}$	$\frac{6.2}{19}$	$\frac{5.2}{30}$	$\frac{4.3}{33}$	$\frac{4.1}{55}$
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$\frac{4.8}{50}$	$\frac{5.0}{30}$	$\frac{4.8}{22}$	$\frac{5.8}{17}$	$\frac{5.8}{11}$	$\frac{5.4}{7}$	5.2	$\frac{5.2}{5}$	$\frac{6.5}{10}$	$\frac{6.1}{20}$	$\frac{5.1}{22}$	$\frac{5.1}{30}$	$\frac{4.6}{32}$
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$\frac{7.3}{150}$	$\frac{6.0}{100}$	$\frac{4.5}{55}$	$\frac{4.2}{100}$	$\frac{3.5}{150}$
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$\frac{6.3}{150}$	$\frac{6.2}{100}$	$\frac{5.8}{50}$	$\frac{5.7}{30}$	$\frac{5.7}{18}$	$\frac{5.3}{13}$	$\frac{5.1}{9}$	5.0	$\frac{5.1}{6}$	$\frac{5.8}{9}$	$\frac{5.8}{30}$	$\frac{5.8}{50}$	$\frac{5.2}{100}$	$\frac{4.4}{150}$
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$\frac{5.5}{150}$	$\frac{5.3}{100}$	$\frac{4.6}{50}$	$\frac{4.5}{30}$	4.4	$\frac{4.6}{30}$	$\frac{4.4}{50}$	$\frac{3.7}{100}$	$\frac{2.8}{150}$
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Sta. + H.I. - Elev.

326.17 ✓

+47

21.7

+60

East Property line ^{21.8} Melvern

+60

2

4+00

22.6

+50

23.5

T.P. 6.74 331.70 ✓ 121 324.96 ✓

5 24.3

+50

24.6

6

25.0

+20.4

W. Property line ^{25.9} Lustis

+36

W. Gutter line ^{26.5} No. X Drain

+50.39

E. Lustis St. 26.3

+65

E. Gutter line. ^{26.6} 12" x 36" C.M.

+80.4

E. Prop. line 26.9

Cloway - warm

Aug. 11-30 Left. & Right

$\frac{6.1}{150}$ $\frac{6.2}{100}$ $\frac{5.1}{50}$ $\frac{5.0}{30}$ $\frac{4.7}{17}$ 4.5 $\frac{5.0}{15}$ $\frac{5.5}{30}$ $\frac{5.2}{50}$ $\frac{4.6}{100}$ $\frac{3.8}{150}$

$\frac{5.7}{148}$ $\frac{5.3}{107}$ $\frac{3.7}{100}$ $\frac{3.7}{50}$ $\frac{4.0}{23}$ $\frac{5.2}{13}$ $\frac{4.4}{10}$ 4.4 $\frac{5.1}{14}$ $\frac{5.7}{15}$ $\frac{5.4}{22}$ $\frac{3.4}{26}$ $\frac{3.2}{50}$ $\frac{3.2}{67}$ $\frac{3.5}{100}$

$\frac{4.4}{93}$ $\frac{3.4}{94}$ $\frac{3.3}{100}$ $\frac{3.0}{150}$

$\frac{3.7}{55}$ $\frac{3.3}{30}$ $\frac{3.3}{23}$ $\frac{4.3}{20}$ $\frac{4.8}{13}$ $\frac{4.1}{7}$ 3.6 $\frac{3.9}{10}$ $\frac{5.2}{17}$ $\frac{4.3}{22}$ $\frac{2.9}{25}$ $\frac{2.6}{42}$ 4.0.

$\frac{2.7}{55}$ $\frac{2.5}{30}$ $\frac{2.6}{24}$ $\frac{3.8}{14}$ $\frac{3.1}{8}$ 2.7 $\frac{2.4}{10}$ $\frac{2.7}{14}$ $\frac{3.8}{18}$ $\frac{3.8}{23}$ $\frac{2.7}{25}$ $\frac{2.6}{55}$

S.W. cor. of Lower Step in Front of H. S. O'Brien's Store.

Front of Store $\frac{2.1}{30}$ $\frac{1.8}{17}$ $\frac{8.3}{13}$ 7.4 $\frac{7.4}{7}$ $\frac{8.1}{18}$ $\frac{8.0}{30}$ $\frac{8.5}{55}$

$\frac{5.8}{55}$ $\frac{6.1}{29}$ $\frac{7.5}{27}$ $\frac{8.0}{12}$ 7.1 $\frac{7.8}{12}$ $\frac{8.5}{16}$ $\frac{8.1}{22}$ $\frac{8.2}{30}$ $\frac{8.6}{55}$

$\frac{4.9}{55}$ $\frac{5.6}{30}$ $\frac{7.0}{28}$ $\frac{7.2}{14}$ $\frac{6.7}{9}$ 6.7 $\frac{6.9}{10}$ $\frac{7.3}{12}$ $\frac{7.3}{16}$ $\frac{6.9}{18}$ $\frac{6.7}{30}$ $\frac{6.4}{55}$

$\frac{4.2}{150}$ $\frac{4.2}{100}$ $\frac{4.8}{50}$ $\frac{5.0}{32}$ $\frac{5.4}{30}$ $\frac{5.7}{10}$ 5.8 $\frac{5.7}{12}$ $\frac{5.5}{19}$ $\frac{4.8}{50}$ $\frac{4.6}{100}$ $\frac{4.4}{150}$

$\frac{4.4}{150}$ $\frac{4.6}{100}$ $\frac{5.2}{50}$ $\frac{5.4}{20}$ 5.2 $\frac{6.1}{50}$ $\frac{6.8}{100}$ $\frac{7.5}{150}$

$\frac{4.0}{150}$ $\frac{4.4}{100}$ $\frac{4.9}{50}$ $\frac{5.4}{50}$ $\frac{5.9}{50}$ $\frac{6.4}{100}$ $\frac{7.1}{150}$

X Drain

Flowline

= 12" X 30' C.M.

$\frac{4.6}{150}$ $\frac{5.0}{100}$ $\frac{5.5}{50}$ $\frac{6.0}{23}$ $\frac{5.0}{22}$ 5.1 $\frac{5.5}{6}$ $\frac{6.3}{7}$ $\frac{6.5}{50}$ $\frac{7.0}{100}$ $\frac{7.5}{150}$

$\frac{2.8}{150}$ $\frac{2.6}{100}$ $\frac{3.5}{30}$ $\frac{4.2}{19}$ $\frac{5.0}{18}$ $\frac{4.5}{12}$ 4.8 $\frac{5.4}{9}$ $\frac{4.0}{10}$ $\frac{2.4}{30}$ $\frac{1.5}{50}$ $\frac{2.2}{100}$ $\frac{2.1}{150}$

Sta.	+	H.I.	-	Elev.	
		331.70 ^v			
7				27.9	
+50				28.8	
T.P.	5.0	334.16	2.54	329.16	
8				27.8	
+50				29.5	
9				29.5	
+65				29.9	
B.M.	165	332.08 ^v	3.73	330.43	4:PM.
+80				29.4	
+95				28.6	
10				28.4	
+10				27.9	
+25				27.2	
+38		£ Carl		27.3	
+75				26.6	

Aug 11-30 Left. $\neq$ Right

$\frac{3.2}{55}$ $\frac{3.6}{30}$ $\frac{4.0}{20}$ $\frac{4.4}{18}$ 3.8 $\frac{4.0}{8}$ $\frac{3.6}{11}$ $\frac{2.9}{30}$ $\frac{2.5}{55}$

$\frac{2.3}{55}$ $\frac{2.6}{30}$ $\frac{2.5}{6}$ 2.9 $\frac{3.2}{8}$ $\frac{2.3}{12}$ $\frac{2.0}{17}$ $\frac{3.8}{30}$ $\frac{4.2}{55}$

$\frac{4.8}{55}$ $\frac{4.6}{30}$ $\frac{4.0}{22}$ $\frac{4.4}{18}$ 4.4 $\frac{4.9}{7}$ $\frac{4.4}{8}$ $\frac{5.0}{30}$ $\frac{4.5}{31}$ $\frac{5.1}{55}$

$\frac{4.5}{55}$ $\frac{4.5}{30}$ $\frac{4.4}{19}$ $\frac{4.8}{15}$ 4.7 $\frac{4.8}{8}$ $\frac{4.8}{15}$ $\frac{4.1}{23}$ $\frac{4.6}{30}$ $\frac{4.0}{55}$

$\frac{4.2}{55}$ $\frac{4.4}{30}$ $\frac{4.7}{16}$ 4.7 $\frac{5.3}{6}$ $\frac{5.3}{11}$ $\frac{4.5}{14}$ $\frac{4.0}{30}$ $\frac{3.5}{55}$

$\frac{3.4}{55}$ $\frac{3.6}{30}$ $\frac{3.8}{15}$ $\frac{4.2}{14}$ 4.3 $\frac{4.0}{6}$ $\frac{3.6}{7}$ $\frac{2.8}{30}$ $\frac{2.3}{55}$

Spike in 12" W.O. 32' R.H. Sta. 10+10. Int. of C. 1. St.

$\frac{1.6}{55}$ $\frac{1.8}{30}$ $\frac{2.2}{11}$ $\frac{2.9}{10}$ 2.7 $\frac{2.5}{6}$ $\frac{1.7}{8}$ $\frac{1.5}{55}$

$\frac{5.0}{55}$ $\frac{4.7}{48}$ $\frac{1.9}{31}$ $\frac{2.3}{12}$ $\frac{3.7}{11}$ 3.5 $\frac{3.2}{7}$ $\frac{1.6}{9}$ $\frac{2.1}{55}$

$\frac{6.1}{10}$ $\frac{5.4}{57}$ $\frac{5.1}{55}$ $\frac{4.8}{30}$ $\frac{4.4}{16}$ $\frac{2.5}{13}$ $\frac{4.0}{11}$ 3.7 $\frac{3.4}{7}$ $\frac{2.4}{10}$ $\frac{1.7}{14}$ $\frac{1.7}{\text{Ramp H.}}$

$\frac{5.6}{55}$ $\frac{5.8}{39}$ $\frac{5.2}{38}$ $\frac{5.2}{30}$ $\frac{4.6}{13}$ 4.2 $\frac{4.0}{9}$ $\frac{2.0}{15}$ $\frac{2.3}{30}$ $\frac{2.8}{55}$

$\frac{5.5}{75}$ $\frac{5.5}{58}$ $\frac{6.0}{55}$ $\frac{5.0}{30}$ $\frac{4.9}{15}$ 4.9 $\frac{5.7}{30}$ $\frac{5.0}{40}$ $\frac{3.2}{46}$ $\frac{2.8}{55}$

$\frac{5.4}{55}$ $\frac{5.2}{32}$ $\frac{5.7}{31}$ 4.8 $\frac{6.1}{35}$ $\frac{5.4}{37}$ $\frac{5.6}{55}$

$\frac{6.3}{55}$ $\frac{6.2}{30}$ $\frac{5.6}{9}$ 5.5 $\frac{5.5}{20}$ $\frac{5.2}{24}$ $\frac{5.8}{50}$ $\frac{6.7}{77}$ $\frac{7.8}{87}$ $\frac{8.0}{95}$

Sta.	+	H.I.	-	Elev
		332.08		

11				25.9
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+50				25.1
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+75				24.7
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12				24.7
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+50				24.7
-----	--	--	--	------

13				26.4
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T.P.	565	333.03	470	327.38
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+12		(Gutter line)		27.5
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+18		(Top Shoulder)		28.3
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+312		£ Pleasant		28.8
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B.M.			269	330.34
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B.M.			7.53	325.50
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				325.49
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Aug. 12-30 Left. $\pm$ Right

$\frac{6.0}{55}$ $\frac{6.4}{30}$ $\frac{6.1}{11}$ 6.2 $\frac{5.4}{20}$ $\frac{6.3}{24}$ $\frac{6.2}{55}$

$\frac{3.8}{58}$ $\frac{4.5}{30}$ $\frac{5.2}{19}$ $\frac{6.7}{19}$ 7.0 $\frac{7.8}{18}$ $\frac{8.0}{30}$ $\frac{8.0}{50}$ House

$\frac{3.0}{55}$ $\frac{3.7}{32}$ $\frac{5.0}{21}$ $\frac{6.5}{18}$ 7.4 $\frac{8.1}{9}$ $\frac{8.7}{29}$ $\frac{8.1}{32}$ $\frac{8.1}{50}$

$\frac{3.6}{55}$ $\frac{3.3}{40}$ $\frac{5.3}{24}$ $\frac{6.7}{22}$ $\frac{7.4}{10}$ 7.4 $\frac{7.8}{10}$ $\frac{9.0}{14}$ $\frac{8.8}{29}$ $\frac{8.1}{31}$ $\frac{7.7}{50}$
Ho.

$\frac{4.8}{55}$ $\frac{8.0}{23}$ $\frac{9.6}{21}$ $\frac{9.4}{15}$ $\frac{7.6}{11}$ 7.4 $\frac{7.8}{12}$ $\frac{9.6}{17}$ $\frac{9.2}{27}$ $\frac{7.8}{33}$ $\frac{6.7}{55}$

$\frac{8.5}{55}$ $\frac{9.5}{30}$ $\frac{9.1}{21}$ $\frac{6.6}{15}$ $\frac{6.0}{9}$ 5.7 $\frac{6.0}{12}$ $\frac{7.3}{15}$ $\frac{7.0}{19}$ $\frac{6.1}{21}$ $\frac{5.3}{34}$ $\frac{2.0}{55}$

$\frac{8.2}{150}$ $\frac{9.4}{100}$ $\frac{9.6}{50}$ $\frac{9.2}{30}$ $\frac{8.2}{23}$ $\frac{5.8}{16}$ 5.5 $\frac{5.4}{10}$ $\frac{5.7}{15}$ $\frac{5.6}{30}$ $\frac{5.4}{50}$ $\frac{4.6}{100}$ $\frac{5.0}{150}$

$\frac{6.5}{150}$ $\frac{6.0}{100}$ $\frac{5.2}{50}$ $\frac{5.0}{30}$ 4.7 $\frac{4.4}{30}$ $\frac{4.2}{50}$ $\frac{3.8}{100}$ $\frac{4.0}{150}$

$\frac{6.2}{150}$ $\frac{5.9}{100}$ $\frac{4.9}{50}$ 4.2 $\frac{3.8}{50}$ $\frac{3.4}{100}$ $\frac{3.7}{150}$

Spike in 14" B.O. 68' Rt. 12+85

Spike in 48" C.W. Int. Spring + Pleasant.

B.M.

92549

PLANS IN HAND

PROJ. 30-R17

8/25/30
O.R.V.K.
W.S.M.

1+50 to 2+50 - Lt, Cl. + Gr. 2 T. ✓

~~N. E. cor. Malvern~~ - P-12" cul., thru walk
Remove & Rep. on Rt. side at Malvern ✓
4+75. P-12" X 46' C.M. ✓

Lt. 20' - ✓

5+40 - Lt. - P-12" X 20' ✓

Gr. 6 stumps. P-100' E of East's ✓

7+53 - Lt. - P-12" ✓

8+36 - R. & L. - P-72" ✓

9+50 to 10. R. - Cl + Gr 1 T. ✓

N. W. cor. Carl - P-12' cul. thru, sidewalk ✓

