

OFFICE OF COUNTY ENGINEER
RAMSEY COUNTY, MINN.

PLAN Survey

CO. RD "B"

From T. H. #51 To Hamline

Road Acc't. No. 62-625-01

Dr. 10

Date Filed 4-28-64

File BK 102

RG
WM
JK
BZ
DD

Aug 9, 1962
Cl, Cool

1

Plan Survey

Co. Rd. "B"

T.H. #⁵¹~~61~~ to Hamline Ave.

Title	Page 1
Alinement	" 2
Topog.	" 3-14
M.H.'s	" 15-17
Bench Levels	" 18-20
X-sections	" 21-

Sta

Pt

ΔL

ΔR

Defl.

132+02.30

119+18.49 POT

105+67.89

Aug. 9, 1962

4

2

Ramsey Co.
Library

Lowest
brick

111.33'

Hamline Ave.

Pure Oil Co.
Sign

N.W. Cor. Base

98.28'

N 1/4 Cor. Sec 16, 29, 23.

PP
a
Disc

52.50'

54.77'

*
Disc

PK Nail

--85.61'--

1457 W. 1/2
04/21.8
T.O.
G.H.C.

Metered
Power P. 9
S.R.P.

E So. Bound Lane

semaphore
Lt. pole.
S.R.P.

66.72'

51.60'

48.62'

Drill hole in solid iron

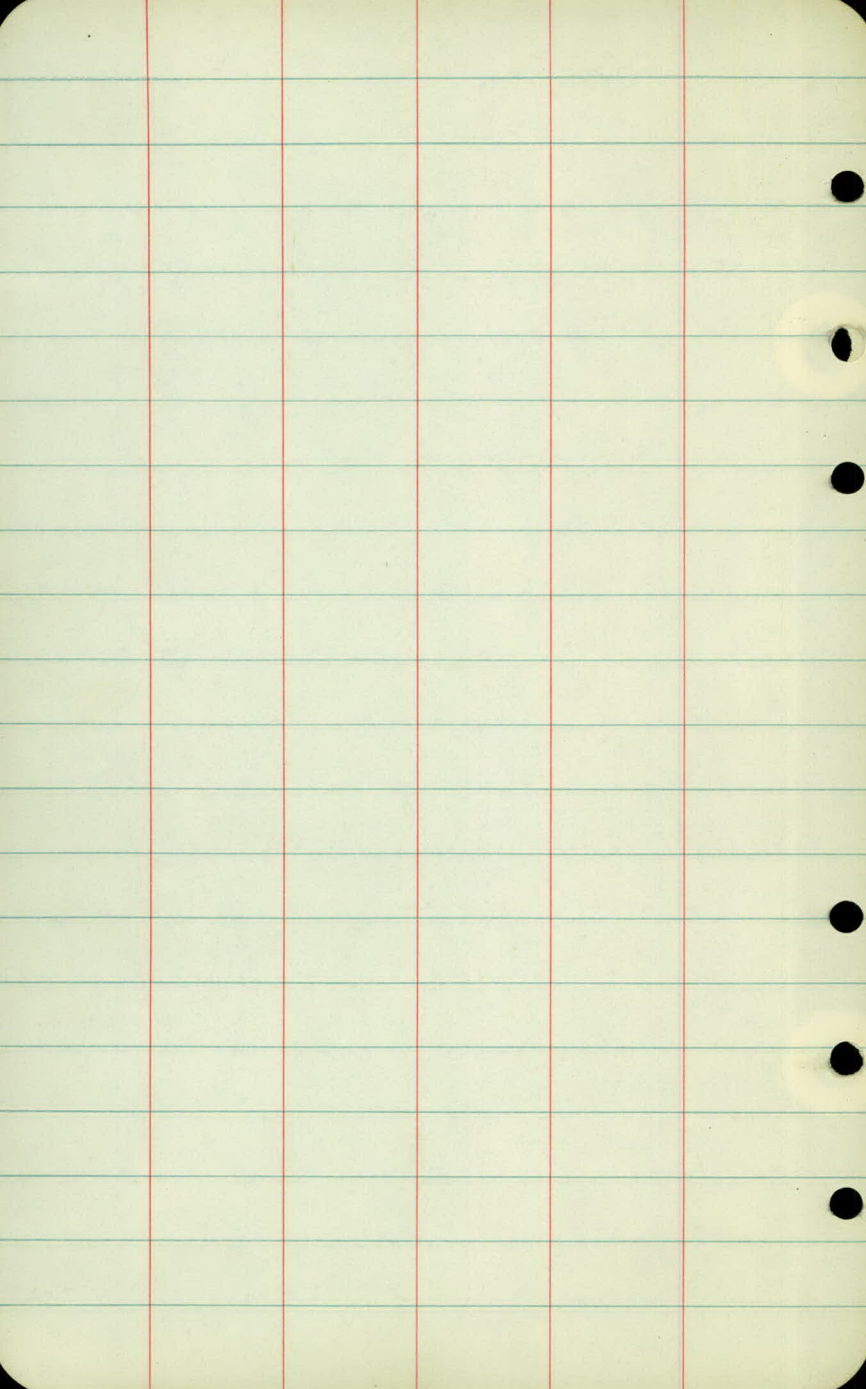
N.W. Cor. Sec 16, 29, 23

41.85'

50.69'

Bottom of
Steel Fe. Cor. post.

*
Disc



Co. Rd. "B"

Topography

E.R. Conc. Ent. +46 41 B.R. +41 38 Conc. Ent. +38 37 Stop sign +13 34 POR +11 32 +1742 Semaphore B.R. +99 41 +87 60 E.R. +65 53 106 2 Conc. Rad +98 18 End Conc. Slab +98 to 106+08 58 +85 64 Bay Rad (conc) POR +81 38 +91 33 29' Conc. Ent +54 65 Stop Sign +46 34 +41 36 E.R. +54 48 +56 14 +47 33 2x2 Conc. sign standard (unused) +35 33 +34 13 Pure sign +30 37 +31 28 CB +19 27 +28 12 Nuclear Ent. +105 33 +23 33 Bay Conc Ent Rad +96 12	LT. £ RT. stop sign +41 51 +50 33 Gas Valve +44 60 Service Dr. +29 6R +16 49 +19 56 ER +103 49 +10 42 +10 41 ER +98 65 +87 = E. edge N.B.L. +76 = £ N.B.L. ER +65 53 POR +48 36 +51 38 Semaphore POR +48 36 +42 39 Breather Piped (2) +48 59 B.R. +30.5 58 +19.5 = £ S.B.L. E.R. +98 36 +98 to 106+08 59 End Slab +81 39 +85 29 +88 29 Bay Conc. Rad. POR +78 65 +83 76 Stop Sign E.R. +54 68 Grate +39 34 +23 25 +30 35 FC +17 26 +23 25 +30 35
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Aug. 9, 1962

4

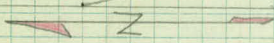
stop sign RT.



Service

Drive

stop sign



B.T.

concrete

N.B.L.

Snelling

T.H. #~~10~~⁵¹

Ave.

S.B.L.

B.T.

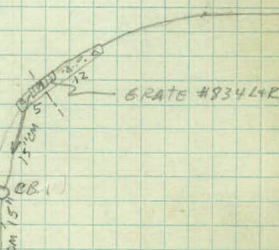
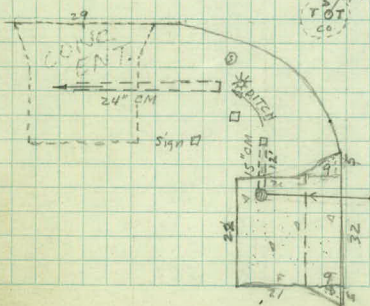
Concrete

B.T.

B.T.

Service

Drive



110 Lt
+00 Edge Drive
90

BT
16 17

Rt
+00 Fc
34

GRP E. end 15" CM SW Cor
+78 20 +76 25 +70 30
G.R.P GRP GRP

+59 24 +57 30 +76 31
W. end 15" CM

+67 Ent +56 25
MH steel pole GR Post
+53 28 +43 51 +55 20

+36 29 +36 59 +36 59
2x2 Light PK lot

+30 35 +32 34
sign standard End. PKg. Area

+18 13 +15 24
conc. Ent. E. end 15" CM

+04 38
Conc. Ent (2PA)

+93 13
BR ER

+81 19 +87 25
Conc. Ent W. end 15" CM

+81 38 +81 25
End Conc Slab SE Cor Bldg

+84 38 +84 90

+52 55
W. end Pump Island (4'x16')

+37 26
E. end 15" CM Ctr. Pump Island

108 +07 89 +235 18-38 16
E. end conc. Ent

+92 29 +95 18-38
W. end 15" CM Conc. Ent.

+84 40 +86 34
Telep Booth (3x3) Lt. pole

+64 38 +63 27 +84 44
S. end 15" CM No. end 24" CM Conc.

+54 19 +54 30
E.R. P.P.

+28 16
E.R.

+23 29 +23 24
Stop Sign E. end 15" CM

+23 32 +23 34
End. Conc. Curb Beg Fc.

+20 26 +23 20
POR (Curb) Beg Conc Sect Curb

+84 24
W. end 15" CM

+87 26 +84 34
POR E. Guard Rail

+82 17 +82 34
B.R. ER

+85 19 +85 32
B. Sect Conc Curb E. Sect Conc Curb

+88 33
Beg Guard Fc.

+63 36
Cor. PKg lot.

+62 18 +63 27
ER S. end 24" CM

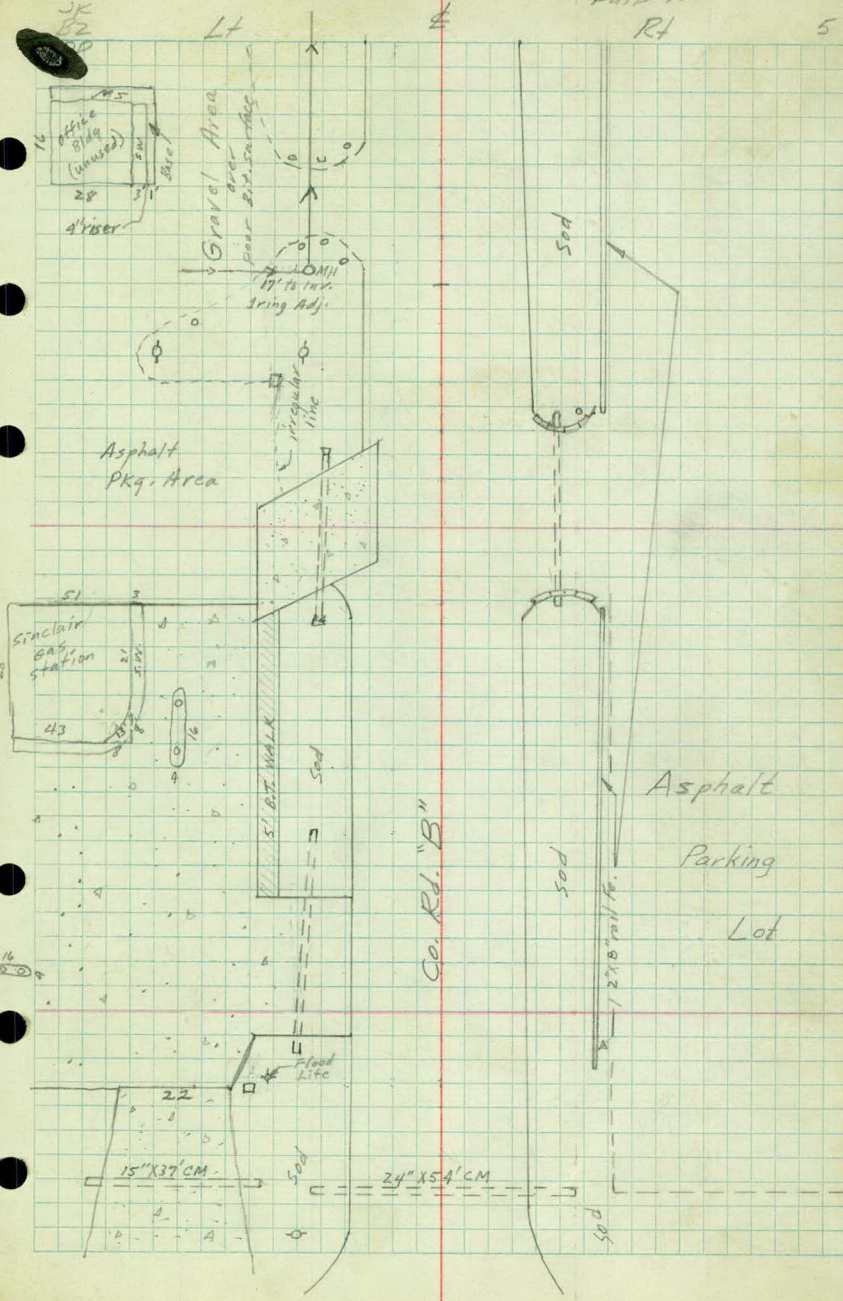
R6
WM
JK
B2
50

Aug 10, 1962
Fair 70°

Lt

Rt

4



LT

±

RT

GRP
+34 43
BR
+21 16

5' Rad Pt.
+30 43

pk9 lot
112 +00 48

pk9 lot
+50 48

pk9 lot
111 +00 48

PP
+87 29
5' Radius Pt.
+41 43

B.R. PK9 lot
+36 30 +50 49
End 15' cut GRP ER
+40 28 +42 20 +46 16

Cor PK9 lot GRP GRP
+36 48 +37 43 +37 31
W. end 15' cut GRP Stop Sign
+12 28 +15 42 +13 34

E.R. GRP
+16 29 +15 30

BR G.R.P. BT
+05 16 +08 20 1617

MH
+39 144
NE Cor Service Station
+33 102

Curb Beg Rad to Curb
+22 20-33 +10 17
+09 Curb L.P. Conc. Slab
38 +09 38 +
+99 DX revolving Sign (3'x3' Base)
36

E.R. to curb Beg Conc Slab
+80 17 +88 38 +
Pump island (W. end) W. end Pump
+93 54 +93 77
Beg Conc Curb (Solid) Curb L.P.
+74 20-33 +88 38

Sign Stop Sign
+33 37 +33 39

POR
+02 28
BR Conc Curb End Conc Curb
+93 17 +99 21 +99 34
Sign BR 1/2 E, R
+89 40 +97 35

PK9 lot FE
+05 35 +00 34

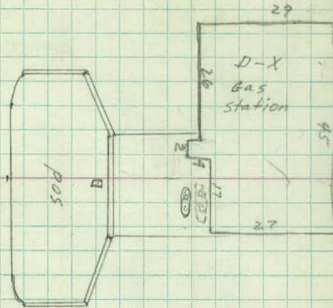
Aug 10, 1962

Lt

St

Rt

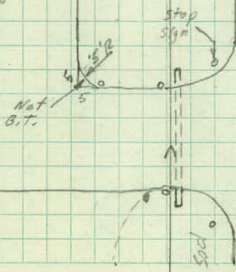
6



Firestone Sign
Boro-stop Sign

Raceville State Bank Sign

Asphalt Parking Lot



Sod
(1) 24x8" rail Fe.

115

· LF
+00 PK&LOT
48

· 4
BT
16 16

RT

· PP
+12 29

114 +00 PK&LOT
48

· BT
16 16

· FeCor
+25 38

113

· PK&LOT
+00 48

· BT
17 16

+92 En + (with Gate) 13'

· NE Cor Conc Slab
+65 72

· FeCor
+78 39

· E.R.
+69 16

· PP
+68 48

· LT R/O/E
+66 39

· PP
+68 29

· MH
+77 29

· E.R.
+74 16

· POR
+60 26

· BR
+62 31

· cor.
PK&Area
+68 40

· GRP
+56 44

· PK&LOT 5' Rad. Pt.
+60 43

· MA
+79 12

26
WH
JK
82
DD

Aug. 10, 1962
Aug. 13, 1962

Lt

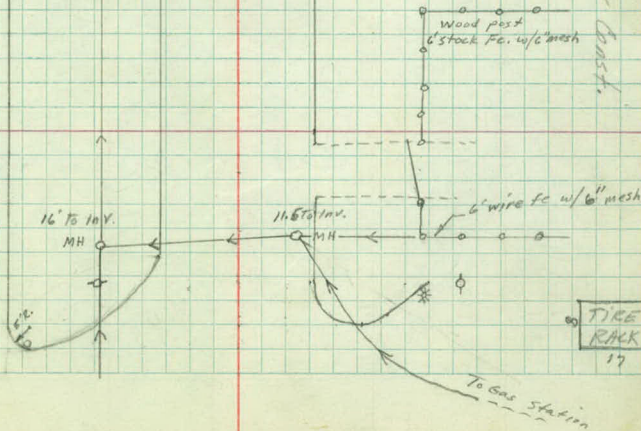
#

Rt

7

Parking Lot

Blog under Const.



Lt.

±

Rt

+29 $\frac{PP}{30}$
+18 $\frac{\pm Spillway}{40}$

117

BT
16 17

B.R.
+66 $\frac{75}{PK \& Lot Cor}$ End Curb Rad & Beg. Conc. Sect. Curb.
+85 $\frac{87}{E. end CM}$ +74 $\frac{87}{E.R.}$
+68 $\frac{31}{Lt. pole}$ +85 $\frac{16}{Beg. Curb & Rad.}$
+68 $\frac{52}{W. end 15" CM}$ +64 $\frac{36}{End Curb & Rad.}$
+42 $\frac{31}{stop Sign}$ +44 $\frac{36}{ER}$
+41 $\frac{43}{Beg Ent. BR}$ +36 $\frac{89}{ER}$
+26 $\frac{16}{BR}$ +36 $\frac{89}{ER}$ +44 $\frac{75}{ER}$

116 $\frac{Curb \& PK \& Lot}{100}$
89

BT
16 17

End Spillway cor. PK & Lot & Curb
+73 $\frac{34}{PP}$ +62 $\frac{89}{E. end 15" CM}$ +71 $\frac{16}{ER}$
+56 $\frac{29}{Beg Curb & Spillway}$ +58 $\frac{32}{PP}$ +53 $\frac{31}{BR}$
+21 $\frac{29}{BR}$ +15 $\frac{21}{G.R.P.}$ +18 $\frac{31}{W. end 15" CM}$
+06 $\frac{16}{stop Sign}$ +25 $\frac{40}{G.R.P.}$ +24 $\frac{39}{stop Sign}$
+15 $\frac{64}{stop Sign}$ +22 $\frac{59}{ER}$ +26 $\frac{43}{ER}$
+08 $\frac{49}{PK \& Lot}$ +08 $\frac{59}{BR}$ +15 $\frac{66}{P.O.R.}$
115 $\frac{PK \& Lot}{100}$ 48

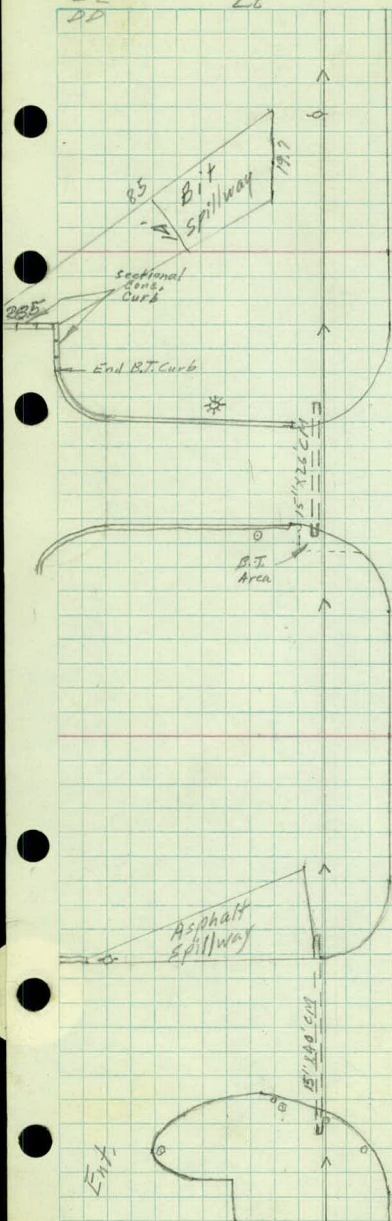
BT
16 16

KG
WM
JK
BZ
DD

Lt

E

Aug. 13, 1962
clear, Windy 75°
Rt. 8



Vacant Area

120

Lt.

. \$
15 18Rt.
NW Cor Conc Slab

NW Cor Bar

+96

67

+96

73

S.S.W.
+37 34

NW Cor Bar & Ho.

ER .. drive

+19 86

+25

22

+20 60

Hedge

Conc .. 22' Ent

+20-24 37-41

+19

74

+00

52

B.R.

stop

PP

+00

33

+09

67

+09 86

.. PP .. ER
+08 29 +20 16119 +00 B.R.
33

.. San. MH

+86 30

.. S.S.M.H.

+73 45

.. BR .. ER
+53 16 +68 33

+86 \$ Pascal Ave. (under Const.)

.. MH
+73 310 ±.. BR
+53 18.. ER
+68 33

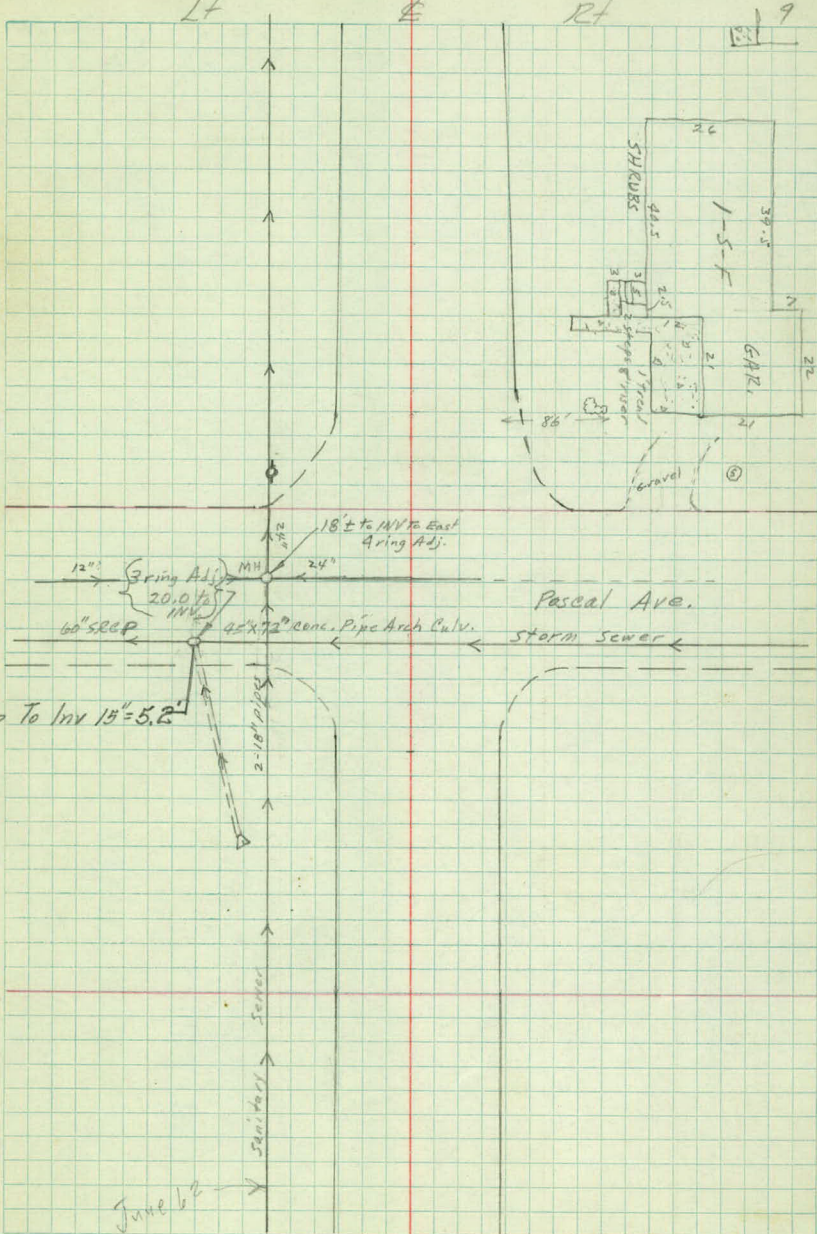
.. Wind Apron

+35 15' RC 1' x 44'
31

118

BT
1618

19



LH

Z

RT

+32 2" Ash
55

+18 FE
108

Gas S.O. Valve

+13

20

+18

MH

SW Cor Bldg

91

Fecor BT

122

+03

30

+00

108

17

19

+45 3 Birch (2")
46

NW Cor Ho

+26

73

3" Pine

+25

45

+42 2 Hedge
55 63-69

3" pine

+25

61

Bush (ornamental plum)

+21

71

4" Apple

+02

55

+66 LT. Pole
44

+69 1" Pine
56

+54 Ent

NW Cor Conc.

+46

34

NW Cor. Gar.

+49

74

Shrubs

+35

35

NW Cor Conc (17')

+13

33

+21 Ent (17')

BT

15 18

NW Cor. 3x3 Planter
& Yard Aisle

+09

42

NW Cor Ho

+72

74

3 Birch (2")

+88

44

Shrubs

+67-72

37

1" Pine

+72

59

121

120

15 18

+03 B.T. Ent (15')

R6
WM
JK
B2
DD

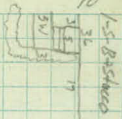
April 14, 1962
Fair 65-75°

Lt

Rt

Rt

10



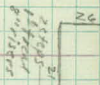
1-5-8+5
10-5-5

29

73'

18+ to INV.

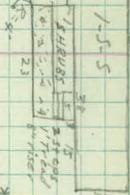
MH



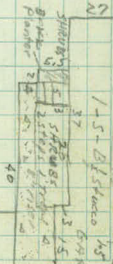
1-5-5
10-5-5

Gravel

Gravel



1-5-5
10-5-5



1-5-5
10-5-5

B.T.

125 Lt E NW RT
 stop Sign Bush Bush Cor Conc Slab (17') Fe (wooden)
 +93 27 +90 26 +92 31 +97 33 +77 65 2 rail
 BR Bush ER
 +83 18 +86 22 +97 33
 3" Pine
 +70 52

Cor Bldg
 +45 91
 NW Cor Ho
 +52 93

2" Maple
 +28 57

124

NW Cor Slab
 +21 73 +30 Ent (18')
 10' N+5 3's.w. Shrub
 +18 65 +19 33 +15 62
 BT 2x5 Planter (5' E+W)
 18 18 +12 39
 NW Cor Ho 1" Pine
 +78 73 +69 68
 Bush Bush Bush
 +77 38 +77 45 +84 38
 Fe Cor 9' N+5 wood Posts
 +71 33 9' E+W 2 rail
 +62 NE Cor Conc +53 Ent (18')

8's.w. 8's.w. Bay slab 8's.w.
 +80 64 +88 48 +88 30
 +88 Ent (8')
 8's.w. 8's.w. 15' N+5
 +60 69 +70 69
 Bldg Corner 4x5 Planter
 +57 83-91 +65 58
 +48 8' Walk
 83

Bldg Corner 2" Ash
 +14 83-91 +12 56
 Bldg BT
 123 +00 91 18 18 +02 73 +01 91
 Bush

Bush (Plum)
 +89 70

NW Cor Conc (19')
 +66 34 +75 Ent
 3" Pine 2x2 Planter +
 +58 57 +63 yard lite
 39

Lt

L

Rt

x3¹/₂ N.

+87 Ent 12'

127

. BT
13 19

. 2" Pine
+84 63
2" Ash
+77 33

. NW Cor Ho
+86 73.5

. 3" Pine
+65 64

. Yard Lt. 2" Ash
+44 44 +53 33
SW Cor Slab (12)
+32 39 +36.5 Ent (9')
SW Cor Ho
+31 73
3" Pine
+16 39
3" Pine
126 +06 39

. 2" Maple
+37 46
3" SW
+20 29
+10.5 Ent (21) 2.
BT
14 19 +00 88
NW Cor. BAR

+81 Ent (18)
3" S.W.
+70.5 28 +72 73
Edge Cont. Slab

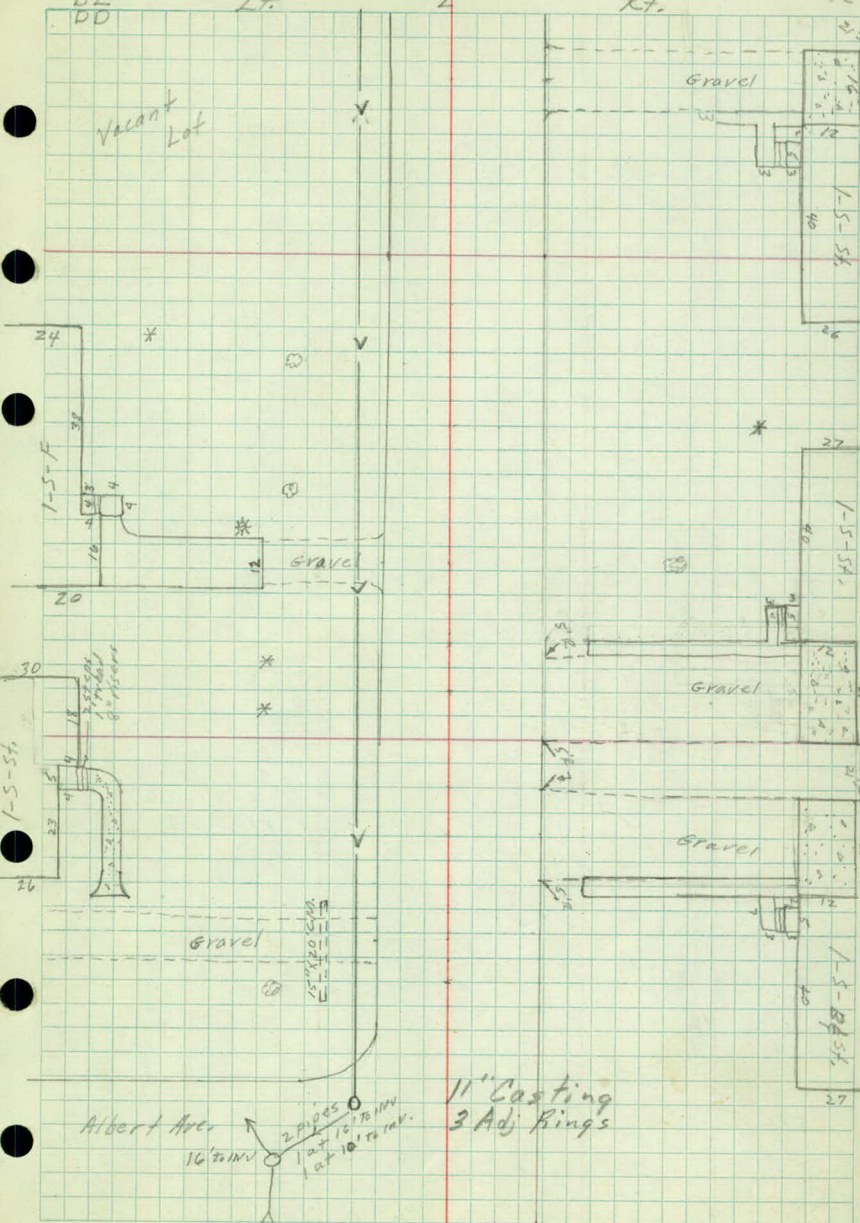
. SW Cor Ho 4" SW.
+71 82 +72 69
8" Conc Walk
+58 Ent 11' +67 67
Wood 15' x 20' OM Tw. 5" Mt. Ash
+46 26 +49 37
BR ER
+29 31 +39 15
MH
+13 36 +26 20
M.H.

. NW Cor. Ho.
+29 73

125

BT
18

12



130 Lt
 Lilacs
 + 95 26+
 + 82' Ent (12')
 Lilac (8' Dia)
 + 72 36
 + 67 10' Apple
 76
 + 56 8' Apple
 41 + 58 10" B.E.
 55

BT
 13 20

RT

Bag. Hedge
 + 72 33+
 + 68 3" Pine
 36
 Cor Slab
 + 52 29.5

10" Elm
 + 12 64

129

BT
 12 20

NW Cor. Ho.
 + 09 74

1" Birch (2)
 + 20 51

2" Pine
 + 09 36

4" Maple
 + 75 61

3' S.W.
 + 73.5 33

1" Pine
 + 67 36

1" Ash
 + 63 54

+ 61 BT Ent (18')
 SW Cor Gar SW Cor Slab (18')

+ 50 78 + 52.5 30

+ 48 3" Pine 66 + 51 3" Pine 76

Tw. 10" Elm 37 43 Rock Ret. Wall + 43 23-

NW Cor Ho
 + 32 74

+ 19 42 + 27 Ent + 16'

1" Pine
 + 29 36

1" Ash
 + 32 54

10" Elm 10 66 + 16 23

128

BT
 13 19

M H
 + 89 19

8" Elm SW Cor Ho
 + 72 55 + 75 78

3' S.W.
 + 71 31

+ 62 B.T. Ent. (21')

NW Cor. Gar.
 + 52 85 2

Cor. Conc.
 + 52 73

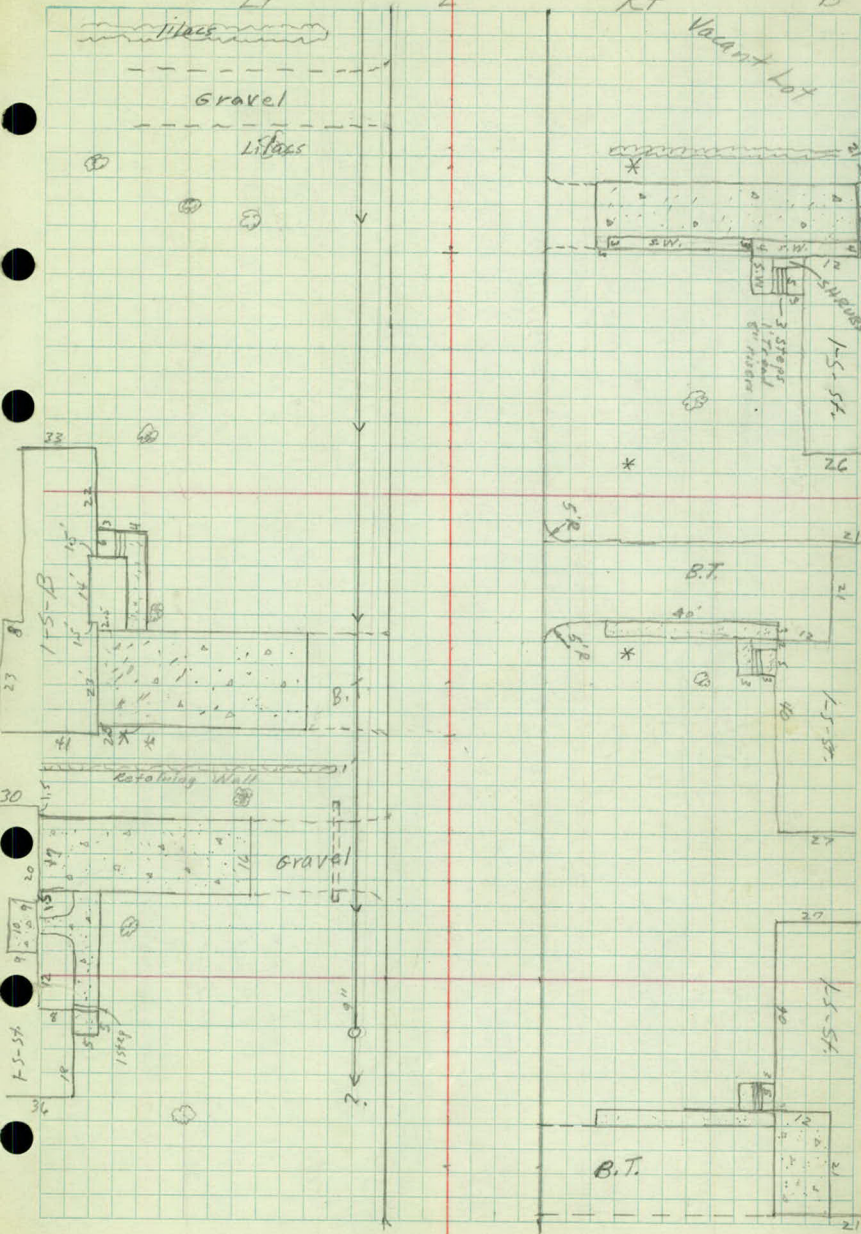
Aug. 15, 1962

Lt

4

Rt

13



Lt

L

Rt

132

+02 E Hamline Ave

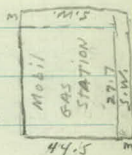
$$\begin{array}{r}
 +79 \frac{ER+Stop Sign}{47} +79 \frac{ENT}{50-74} \\
 +75 \frac{POR}{36} +75 \frac{PP}{45} +59 \frac{Cor B.T.}{43} \\
 +59 \frac{Cor. B.T. (Ent)}{82} +65 \frac{B.R.}{30} \\
 +57 \frac{Lt. Pole}{45} +59 \frac{Cor B.T. (Ent)}{54} \\
 +50 \frac{Cor. B.T.}{43} +54 \frac{Cor B.T.}{28}
 \end{array}$$

$$\begin{array}{r}
 +84 \frac{ER}{43} \\
 +71 \frac{Stop Sign}{30} +73 \frac{PP}{47} \\
 +60 \frac{BR}{18}
 \end{array}$$

$$+28 \frac{Cor B.T.}{43} +32 \frac{Cor. B.T.}{28}$$

$$\begin{array}{r}
 +07 \frac{SW Cor. Pumpable}{63} \\
 131 +02 \frac{Cor. B.T.}{43} +04 \frac{SW Cor. Slab, B.T.}{53} 18 \\
 +99 \frac{Edge BT}{28} \\
 +75 \frac{SW Cor Gas Station}{96} +67 \frac{BR to Lt. Pole}{18} \\
 +71 \frac{Lt. Pole}{44} +71 \frac{Beg railing (end at Gas station)}{44} \\
 +69 \frac{End lilacs}{30-40} +69 \frac{6" E/W}{58} \\
 +65 \frac{MH}{18} \\
 +47 \frac{10" BE}{62} \\
 +46 \frac{12" BE}{38} \\
 +31 \frac{12" BE}{38} \\
 +06 \frac{Beg Lilacs}{30-40} +18 \frac{14" BE}{55} \\
 130 +00 \frac{26" B.E.}{40} +00 \frac{18" BE}{65}
 \end{array}$$

• BT
13 20



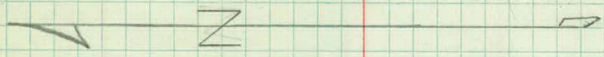
Aug 15, 1962

Lt

±

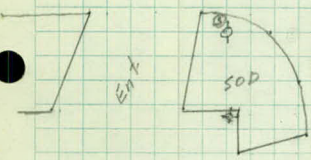
Rt

14



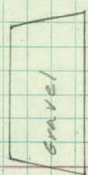
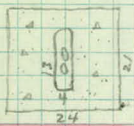
Hamline

Ave.



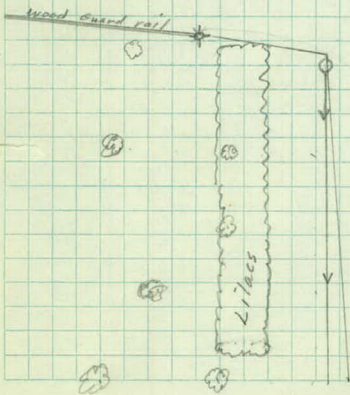
B.T.

Ent.

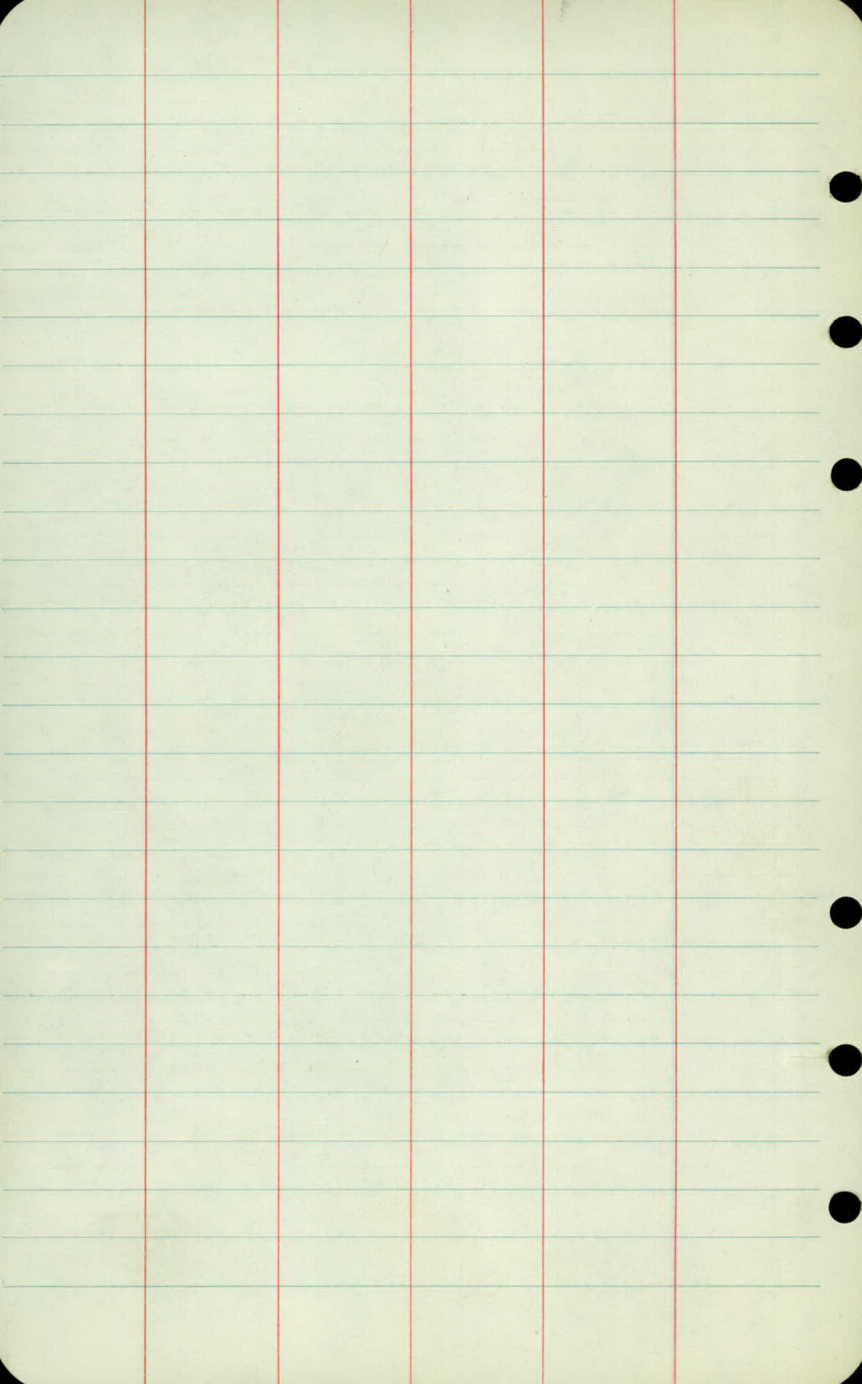


B.T.

Ent.



Vacant Lot



Co. Rd. "B"

T.H. 61th to Hamline Ave.

Bench Levels

Sta	+	π	-	Elev.	
BM ₁	3.981	933.651		929.670	
TP ₁	11.053	941.883	2.821	930.830	
TP ₂	12.305	953.816	0.372	941.511	
TP ₃	5.664	958.474	1.006	952.810	
BM ₂	4.822	960.236	3.060	955.414	
T.P. ₄	4.970	961.545	3.661	956.575	
BM ₃	2.975	961.430	3.090	958.455	State Elev. 958.25
TP ₅	0.583	956.693	5.320	956.110	
TP ₆	5.152	957.500	4.345	952.348	
BM ₄	1.775	957.824	1.451	956.049	+0.008 = 956.06
TP ₇	4.708	956.862	5.670	952.154	
T.P. ₈	6.870	960.910	2.822	954.040	
BM ₅	4.195	962.630	2.475	958.435	958.455
TP ₉	4.352	960.787	6.195	956.435	
BM ₆	0.888	956.275	5.400	955.387	955.414
TP ₁₀	0.015	948.422	7.868	948.407	
TP ₁₁	0.231	935.333	13.320	935.102	
BM ₇	74.539		5.679	929.654	929.670
			74.555	929.670	
			74.539	929.654	
			0.016	ck	0.016 $\div 2 = 0.008$

RG
WM
JK
BZ
DD

Aug. 16, 1962
Fair 80°

Description

19

Top N.E. Cor. lower Step Ho[#] 2495 Snelling.

N.E. Cor Ent S.W. slab Ho[#] 2483 Snelling

rock

Top of No. end SCP Culvert Front of Ho[#] 2405 Snelling

Top MHD 33' R/W iron 33' w. at E 1/4 Sec 9, 29, 23

Top W. end CM Front of Ho[#] 2355 Snelling

Bronze disc on S.E. Cor of West Bridge for Snelling Ave's S.B.L.
over TH[#] 36

rock

rock

Spike in Arc Lt. Pole NW Cor. B^W $\frac{1}{2}$ Snelling.

Rock

rock

rock

Top No. end SCP front of Ho[#] 2431 Snelling -

rock

Sta	+	Σ	-	Elev	
BM ₁	1.19	957.25		956.06	
BM ₂	1.51	956.49	2.27	954.98	
BM ₃	3.04	953.42	6.11	950.38	
BM ₄	3.20	952.94	3.68	949.74	
BM ₅	5.73	957.52	1.15	951.79	
BM ₆	1.83	957.36	1.99	955.53	
		953.36			
BM ₅	1.57	952.36	5.57	951.79	(951.79)
BM ₄	3.54	953.28	3.62	949.74	(949.74)
BM ₃	4.52	954.90	2.90	950.38	(950.38)
TP ₁	5.99	957.41	3.48	951.42	
B.M. ₂	2.93	957.91	2.43	954.98	(954.98)
BM ₁			1.85	956.06	(956.06)

RG
BS
JK
BZ
DD

Aug 17, 1962
Fair, 75°

20

Spike in Arc Lt. Pole NW Cor Snelling $\frac{1}{4}$ "B"

Top N.W. Cor. Base of D-X Sign 36' R+ sta 112
Pascal St.

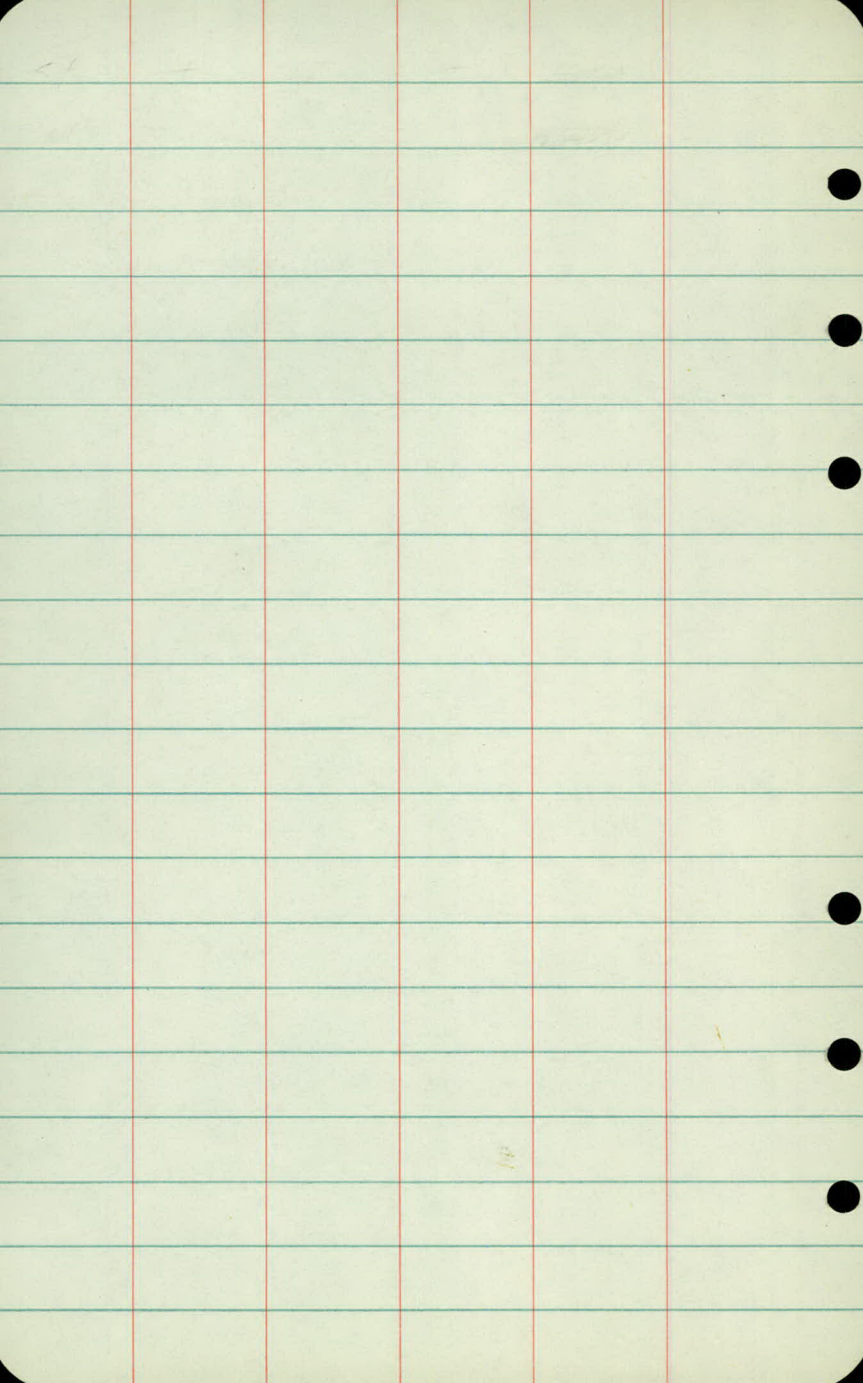
Top N.W. Cor. lower step Ho. #1454 Co. Rd. "B".
600' E. Pascal St.

Top N.W. Cor. lower step Ho. #1408 Co. Rd. "B".
350' W Hamline

Top N.W. Cor. lower step Ho. #1372 Co. Rd. "B".

Spike in P.P. S.W. Cor. Hamline $\frac{1}{4}$ "B".

rock



Co. Rd. "B"

T.H. #61 to Hamline Ave.

#51

X-Sections

Reduced - 10/11/62 by K.J.

Checked by Jk 10/11/62 (29 pages)

Sta	+	π	-	Elev
BM	2.60	958.66		956.06
105+68				
+98			3.60	955.06
106+00			3.78	954.88
+19.5				
+98			4.41	954.25
+76				
+87			4.49	954.17
107+00			4.53	954.13
+29				
+41				

RG
WS
JK
B2
DD

Lt

+

Aug 17, 1962
Fair, 75°
RT

22

Spike in PP N.W. Cor. Snelling & "B"

52.52	52.63	53.61	54.23	54.86	55.56	56.17	56.66	57.15
6.14	5.03	5.05	4.43	3.80	3.10	2.49	2.00	1.51
200	150	100	50	NBL	50	100	150	200

57.11	57.53	58.11	58.70	59.31	59.95	55.46	55.90	56.45
6.55	6.13	5.55	4.96	4.35	3.71	3.20	2.76	2.21
200	150	100	50	NBL	50	100	150	200

E. edge N.B.L.

53.0	53.6	54.1	54.4	54.6	54.2	55.0	55.3	55.4
5.7	5.1	4.6	4.3	4.1	4.5	3.7	3.4	3.3
200	150	100	50		50	100	150	200

54.1	54.36	54.49	54.5	54.8	54.5	54.1	54.2	54.4	55.0
4.6	4.30	4.17	4.2	3.9	4.2	4.6	4.5	4.3	3.7
100	75	37	20		17	33	54	76	100

Sta	+	π	-	Elev
-----	---	-------	---	------

		958.66		
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107 +44				
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+50				
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✓				
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+63				
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✓				
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✓				
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Aug 17, 1962

LT

RT

RT

23

53.5	54.2	54.32	54.44	54.5	54.4	54.9	54.5	54.1	54.0	54.0	54.3	54.8
5.2	4.5	4.34	4.22	4.2	4.3	3.8	4.2	4.6	4.7	4.7	4.4	3.9
100	77	72	41	34	26	18	32	35	52	75	100	
		conc	conc.		BT		BT					

53.1	54.25	54.30	54.2	53.8	54.3	54.3	54.0	54.6	54.0	52.8	52.3	52.3
5.0	4.4	4.36	4.5	4.9	4.4	4.4	3.7	4.1	4.7	5.9	6.4	6.4
80	71	41.5	39	32	24	20	BT	16	27	37	56	76
							BT	BT				

52.4
6.3
90

51.4
7.3
100

52.5
6.2
100

50.54	51.83	52.6	54.1	54.3	55.0	54.5	54.3	52.3	51.0	52.6	52.9
8.12	6.83	6.1	4.6	4.4	3.7	4.2	4.4	6.4	7.65	6.1	5.8
28	28	24	20	18		17	20	26	26	37	57
INV	Top			BT		BT			INV	CON	Apron

50.27	51.8	54.14	54.5	53.9	51.00
8.39	6.9	4.52	4.51	4.8	7.26
37	38	42	70	72	75
INV	Top	conc.	conc.		Top
Apron					

53.2
5.5
100

53.0
5.7
75

50.6
8.1
100

50.6
8.1
83

50.03
8.63
76
INV
Apron

Sta	+	π	-	Elev
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		958.66		
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107+84				
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✓				
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792				
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108+00				
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			7.35	951.31
--	--	--	------	--------

✓				
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T.P.	3.14	957.83	3.99	954.67
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+23				
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+31				
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Aug 17, 1962

LF

Ref

24

5A.32	5A.1	51.8	50.8	5A.1	5A.9	5A.3	53.8	51.8	53.0	59.6
4.34	4.6	6.9	4.9	4.6	3.8	4.4	4.9	6.9	5.7	5.2
38	36	26-30	20	17		17	19	25-28	34	56
conc				BT		BT			BT	BT

	54.32	54.32	54.19	54.01
→	4.34	4.34	4.47	4.65
	44	66	86	100
	conc	conc	conc	conc

53.8
4.9
100
BT

14V 15" CM Lf 29'

54.50	54.44	54.01	54.37	55.0	54.3	53.8	51.8	52.6	53.2
4.16	4.22	4.65	4.29	3.7	4.4	4.9	6.9	6.1	5.5
65	39	29	18		16	19	24-27	30	34
conc	conc	conc	conc						BT

54.3	54.0	53.6
4.4	4.7	5.1
100	75	50

54.62	54.52	54.25	54.40	54.9	54.2	53.7	51.8	53.1	53.4	53.9
3.21	3.31	3.58	3.43	2.9	3.6	4.1	6.0	4.7	4.4	3.9
58	41	27	18		16	18	24-28	31	34	58
conc	conc.	conc.		BT						

[illegible]

Sta	+	π	-	Elev
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		957.83		
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+50				
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			2.47	
--	--	--	------	--

				955.36
--	--	--	--	--------

+81				
-----	--	--	--	--

✓				
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109+00				
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+15				
-----	--	--	--	--

✓				
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BM				
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			2.84	
--	--	--	------	--

				954.99
--	--	--	--	--------

				954.98
--	--	--	--	--------

BM				
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	2.83			
--	------	--	--	--

		957.81		
--	--	--------	--	--

			954.98	
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Aug 17, 1962

Lt.

±

RT

25

Top Pump Island (Lt.)

54.6	54.6	51.93	53.25	54.4	54.9	54.3	54.4	53.03	51.13	53.3
3.0	3.0	5.90	4.58	3.4	2.9	3.5	4.4	4.80	6.10	4.5
34	30	25	25	20		17	20	24	24	31
BT		INV	TOP	BT		BT		TOP	INV	
		Apron	CM					CM		
55.00	55.13							54.2	54.0	
2.83	2.70							3.6	3.8	
39	58							60	33	
conc	conc							BT	BT	

55.1	55.10	54.66	54.81	55.0	54.7	54.1	53.9	54.1	
2.7	2.73	3.27	3.02	2.8	3.1	3.6	3.9	3.7	
50	38	23	13		14	24	36	50	
B.T.	conc.	conc.	conc.		BT	BT	BT	BT	

52.10	53.91	53.6	54.5	54.82	55.1	54.7	54.0	52.8	
5.73	4.46	4.2	3.3	3.01	2.7	3.1	3.8	5.0	
24	24	22	20	13		16	34	37	
INV	TOP			conc		BT	BT	BT	
Apron	CM								

54.2	55.0	55.2		
3.6	2.8	2.6		
28	34	50		
BT				

Top NW Cor Base DX Sign 36' RT Sta 112

" " " " "

Sta	+	π	-	Elev
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		957.81		
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109+24				
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✓				
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+54				
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		3.82		
--	--	------	--	--

			953.99	
--	--	--	--------	--

+57				
-----	--	--	--	--

✓				
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+77				
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✓				
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RG
JK
BZ
DD

LT

✱

Aug 21, 1962
Fair 80°

RT

26

53.2	52.5	53.2	54.4	54.6	55.1	54.7	53.3	52.0 ¹	53.4	54.0
4.6	5.3	4.6	3.4	3.3	2.7	3.1	4.5	5.80	3.9	3.8
26	23-25	22	18	15		16	24	24	34	50
				BT		BT	TOP CM	INV	BT	BT

54.8	55.1	55.2
3.0	2.7	2.6
31	35	50
	BT	BT

run M/H LT 28'

54.1	52.1	51.7 ⁶	53.0 ¹	52.6	54.0	54.4	55.1	54.5	54.3	52.5	52.7	53.5
3.7	5.1	6.05	4.80	5.2	3.8	3.4	2.7	3.3	3.5	5.3	5.1	4.3
30	26	25	25	24	21	15		16	18	24	28	33
		INV	TOP CM			BT		BT				

54.2	54.5
3.6	3.3
33	50

54.0	53.6
3.8	4.2
50	35
BT	BT

54.1	52.6	51.3 ¹	52.6	54.1	54.4	55.0	54.4	54.2	52.6	52.6	53.6
3.7	5.2	6.44	5.2	3.7	3.4	2.8	3.4	3.4	5.2	5.2	4.2
32	25-27	26	26	20	16		16	18	25	29	33
	Ditch (End)	INV	TOP CM		BT		BT				

54.7
3.1
50

53.8	53.5
4.0	4.3
50	36
BT	BT

Sta	+	π	-	Elev	Remarks
		957.81			
110+00					
+12			7.29	950.52	
+27					Ent. Lt.
+40					
✓					
+75					
Bm			2.83	954.98	954.98

Aug 21, 1962

LT

✓

BT

27

54.6	54.3	52.2	53.7	54.3	54.9	54.3	54.2	52.7	53.3	53.4	53.6	53.6
3.2	3.5	5.6	4.1	3.5	2.9	3.5	3.6	5.1	4.5	4.4	4.3	4.2
50	34	26-28	23	16		16	18	24-28	31	33	36	50
			BT			BT					BT	BT

Inv 15" CM LT 28'

54.6	54.6	54.9	54.4	54.8	54.2	52.6	52.5	53.3	53.3	53.6
3.2	3.2	2.9	3.4	3.0	3.6	5.2	5.3	4.5	4.5	4.3
65	50	33	16		16	24	28	33	36	50
BT	BT	BT	BT		BT				BT	BT

52.2	51.47	52.7	52.2	54.1	54.3	54.7	54.1	53.8	52.8	53.2
5.6	6.34	5.1	5.6	3.7	3.5	3.1	3.7	4.0	5.0	4.6
28	28	28	27	22	17		16	20	24-28	33
2	INV TOP				BT		BT			

54.6	55.2	54.6
3.2	2.6	3.2
33	41	49

53.4	53.2
4.4	4.6
50	36
	BT

54.9	55.2	54.1	52.9	54.0	54.3	54.7	53.9	53.6	52.6	52.8	53.0	53.2
2.9	2.6	3.7	4.9	3.8	3.5	3.1	3.9	4.2	5.2	5.0	4.8	4.6
47	41	33	24-28	19	16		17	20	24-28	33	37	50
				BT			BT				BT	BT

54.6	54.6
3.3	3.3
48	60
BT	BT

Sta	+	π	-	Elev
BM	3.60	958.58		954.98
110+99			5.7	952.88
111+00				Edge Ent Rt.

✓

+16

Ent Rt

✓

+60

Ent. Rt

✓

Aug. 21, 1962

LT

±

RT

28

Top NW Cor Base of DX Sign 36' RT Sta 112

± d. 46 27' RT

55.1	53.8	53.1	53.0	54.0	54.2	54.6	54.0	53.8	54.3	54.0	53.6	53.6
3.5	4.8	5.5	5.6	4.6	4.4	4.0	4.6	4.8	4.3	4.6	5.0	5.1
39	33	30	22	19	16		16	21	21	34	34	30
					BT		B.T.	B.C.	T.C	T.C.	B.C.	B.T.

55.3	54.4	54.4
→ 3.3	4.2	4.2
40	48	50
	BT	BT

53.5
→ 5.1
50
B.T.



53.9	53.6	53.1	53.1	53.9	54.1	54.6	54.1	53.8	53.1	53.1
4.7	5.0	5.5	5.5	4.7	4.5	4.0	4.5	4.8	4.9	4.9
39	33	30	22	19	16		16	27	33	50
					B.T.		BT	BT	BT	BT

53.1	54.3	54.3
→ 3.5	4.3	4.3
45	49	50
	BT	BT



54.6	53.4	53.1	53.0	53.1	54.0	54.3	53.8	53.1	53.6	53.1
4.0	5.2	5.5	5.6	4.9	4.6	4.3	4.8	4.9	5.0	4.9
39	33	30	24	19	16		17	27	33	50
					B.T.		B.T.	B.T.	B.T.	B.T.

54.6	54.1	54.1
→ 4.0	4.5	4.5
44	49	50
	BT	BT



Sta	+	x	-	Elev
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		958.58		
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+74				
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✓

BM				
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	3.60			
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		954.98		
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			954.98	
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End of Page

Aug 21, 1962

Lt

R

Rt

29

53.6	53.3	53.2	53.7	54.0	54.3	53.6	53.7	54.10	53.99	53.4
5.0	5.3	5.4	4.9	4.6	4.3	5.0	4.9	4.48	4.59	5.2
33	30	24	20	16		18	20	21	27	27
				BT		BT	BT	T.C.	T.C.	NG

conc.

54.5	54.4	54.0	54.0
4.1	4.2	4.6	4.6
41	46	49	50
		BT	BT

✓

53.7	53.6	53.89
4.9	5.0	4.69
50	32	32
B.T.	B.C.	T.C
	B.T.	

Top NW Cor base of DX Sign 36' Rt Sta 112

Page

End of

Sta	+	π	-	Elev
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No Page

No Page

Sta	+	π	-	Elev.
BM	1.56	956.54		954.98

112+00

✓

+23

✓

+45 ± Ent 4 $\frac{1}{2}$ pt.

+64

FK
RG
WM
LB

Oct 24, 1962
Clear 320

LT

±

RT

30

Top NW Cor. Base of DX Sign 36' RT Sta 112

54.3	54.4	53.5	53.7	53.8	54.0	53.5	53.2	52.5	52.4	53.2	53.5
2.2	2.1	3.0	2.8	2.7	2.5	3.0	3.3	4.0	4.1	3.3	3.0
45	38	29	18	13		16	19	22	27	32	38

54.1	53.1	53.7
2.4	2.8	2.8
48	49	65
B.T.	B.T.	

✓

53.56	53.30 ³⁴	53.83
2.98	3.20	2.71
53	39	38.5
conc.	conc	Top Curb

53.9	54.3	54.1	53.6	53.7	53.9	53.5	53.3	53.8	53.7	53.60
2.6	2.2	2.4	2.9	2.8	2.6	3.0	3.23	2.73	4.81	2.94
48	42	35	21	15		16	21	21	24	32
						BT Gutter	Top Curb		Inv. 12" CM	Top Curb

53.1	53.1
2.8	2.8
49	61
BT	BT

✓

53.3	53.23
3.2	3.31
51	32
	Gutter

53.6	53.1	53.6	53.4	53.6	53.2	53.0	53.0	53.1
3.0	2.8	2.9	3.1	2.9	3.3	3.5	3.5	3.4
58	41	24	12		14	20	37	55
					BT	BT	BT	

✓

53.3	53.1	53.9	53.2	52.9	53.0	53.3	52.8	52.7	52.9	52.7	52.9	52.4
3.2	2.8	2.6	3.3	3.6	3.5	3.2	3.7	3.8	4.2	3.8	3.6	3.6
48	46	37	29	22	15		13	18	23	26	35	40
BT												

✓

3.1
59 (RT)

53.0
3.5
59.49

Sta	+	T	-	Elev
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		956.54		
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112+78				
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✓				
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113+00				
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✓				
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+50				
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✓				
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Oct 24, 1962

LT

L

RT

31

52.6	52.85	52.2	52.6	52.8	52.1	52.7	52.2	52.8	52.00	52.1
2.9	3.49	4.3	3.9	3.7	3.4	3.8	4.3	4.7	4.50	4.8
38	29	21	19	15		14	17	25	28	33
	MH								MH	

52.6	52.1	52.2
2.9	3.4	3.3
46	48	58
BT	BT	

52.6	52.1
4.0	4.4
50	38
	Fe. cor.

52.3	52.1	52.9	52.8	52.6	52.8	52.8	52.6	52.1	52.1	52.6	52.3
3.2	3.4	4.6	4.7	3.9	3.7	3.46	4.0	4.4	4.4	4.0	4.2
47	37	28	23	19	14		16	21	31	38	50
										Fe	

52.8	52.8
3.7	3.7
48	58
BT	BT

52.4	52.6	52.1	52.3	52.9	52.1	52.5	52.3	52.1	52.8	52.0	52.8	52.1
3.6	5.0	5.4	5.2	4.6	4.4	4.0	4.2	4.4	4.7	4.5	4.7	4.8
38	30	27	24	20	17		14	17	26	35	41	50

52.9	52.4	52.6
3.6	4.1	4.0
47	48	60
BT	BT	

Sta	+	π	-	Elev
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		956.54		
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114+00				
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✓				
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+50				
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✓				
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115+00				
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TP	2.36	953.27	5.63	950.91
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Oct 24, 1962

Lt

E

Rt

32

50.4	50.1	50.3	51.5	51.7	52.05	51.7	51.5	51.3	51.6
6.1	6.4	6.2	5.0	4.8	4.49	4.8	5.0	5.2	4.9
31	27	24	19	13		14	18	23	32

52.1	52.5	52.0	52.0
4.4	4.0	4.5	4.5
38	47	48	60
		BT	BT

50.7	51.2
5.8	5.3
50	43

50.0	49.0	49.6	50.6	51.2	51.5	51.1	50.9	50.6	50.2	50.3
6.5	7.5	6.9	5.9	5.3	5.0	5.4	5.6	5.9	6.3	6.2
32	27	25	20	16		14	19	29	40	45

51.7	51.6	51.2	51.4
4.8	4.9	5.3	5.1
40	47	48	60
		BT	BT

50.3
6.2
50

50.7	48.8	48.7	50.0	50.5	50.5	50.9	50.4	50.2	49.9	49.5	49.2
5.8	7.7	7.8	6.5	6.0	6.0	5.43	6.1	6.3	6.6	7.0	7.3
38	31	28	23	18	14		15	19	30	44	53

51.2	50.6	50.9
5.3	5.9	5.6
48	49	70
	BT	BT

PK nail E 115+00

Sta	+	π	-	Elev.
-----	---	-------	---	-------

		953.27		
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15+18				
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✓				
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+25				
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+40	Gutter Lt.			
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✓	& Street			
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+53	Gutter Lt.			
	(Collects all water from Parking Lot)			

Oct. 24, 1962

LH

A

RH

33

48.3	50.3	50.6	50.3	50.6	50.8	50.4	50.2	49.6	49.1	49.4
5.0	3.0	2.7	3.0	2.7	2.5	2.9	3.1	3.7	3.6	3.9
30	27	24	19	14		13	18	23	38	50

47.90

5.37
31

48.3

5.0
32

50.1

3.2
35

50.4

2.4
44

51.3

2.0
56

✓

50.6	50.5	50.7	50.6	50.5	50.8	50.4	50.0	49.4	49.4	49.3
2.7	2.8	2.6	2.7	2.8	2.6	2.9	3.3	3.9	3.9	4.0
100	70	47	35	16		14	18	25	40	50

✓

50.3	50.1	50.74	50.5	50.4	50.6	50.3	49.7	49.3	49.2
3.0	2.6	3.53	2.8	2.9	2.7	3.0	3.6	4.0	4.1
64	41	29	28	16		14	23	45	50

MH

50.3	50.3	50.5	50.8	51.0	51.2
3.0	3.0	2.8	2.5	2.3	2.1
83	100	125	150	175	200

✓

50.2	50.1	50.3	50.1	50.3	50.5	50.3	49.8	49.2	49.1
3.1	3.2	3.0	3.2	3.0	2.8	3.0	3.5	4.1	4.2
100	75	50	28	14		13	22	36	50

✓

Sta	+	π	-	Elev
-----	---	-------	---	------

		953.27		
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+60				
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✓				
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+75				
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✓				
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116+00				
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✓				
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Oct. 24, 1962

1A

2

2+

34

48.3	47.98	50.0	50.0	50.4	50.2	49.8	49.1	48.9
5.0	5.29	3.3	3.3	2.9	3.1	3.5	4.2	4.4
30	32	25	17		14	22	35	50

FL 15' CM

48.8	49.9	49.8	49.9	50.5
4.5	3.4	3.5	3.4	2.8
33	45	50	66	Bern

Gutter 70



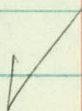
48.5	48.4	48.8	49.1	50.0	50.3	50.1	49.1	49.1
4.8	4.9	4.5	3.6	3.3	3.0	3.2	3.6	4.2
34	28	26	20	15		14	20	25

49.1	49.8
3.6	3.5
39	50



48.0	48.1	48.1	48.8	49.9	50.12	49.8	48.8	48.9	49.1
5.3	5.2	4.6	3.5	3.4	3.15	3.5	4.5	4.4	3.6
33	27	21	17	15		18	22	35	50

49.5	49.1
3.8	3.6
38	50



Sta + π - Elev

953.27

116+26

✓

+43 Gutter Lt.

✓

+65

✓

Oct. 24, 1962

Lt

A

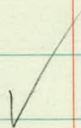
Rt

35

48.3	48.1	48.3	49.4	49.8	50.0	49.6	49.9	49.1	49.8	50.9
5.0	5.2	5.0	3.9	3.5	3.3	3.7	3.9	4.2	3.5	2.4
34	29	23	19	15		17	20	29	37	50

↑
↑
Topsoil
stockpile

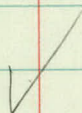
49.5 49.7
→ 3.8 3.6
38 50



49.6	49.6	49.73	49.5	49.8	50.0	49.6	49.4	49.1	50.2	50.7
3.7	3.7	5.54	3.8	3.5	3.3	3.7	3.9	4.2	3.1	2.6
36	31	31	27	13		17	19	26	38	50

Gutter Inv. 15" CM ↑ Topsoil stockpile

50.0 49.4 49.9
→ 3.3 3.9 3.4
36 50 50
TOP B.T. T.C.
Curb



49.8	49.4	49.70	49.5	49.8	50.0	49.6	49.3	49.2	49.5	50.1
3.5	3.9	5.57	3.8	3.5	3.3	3.7	4.0	4.1	3.8	3.2
37	37	32	32	16		17	20	30	41	46

T.C. B.C. Inv. 15" CM ↑ Topsoil stockpile

49.2 49.7
4.1 3.6
50 50
B.C. T.C.



50.6
2.7
50

Sta

+

 π

-

Elev

953.27

116+84

✓

117+00

✓

BM

2.90

950.37

950.38

BM

3.73

954.11

950.38

117+79

/
450

Oct 24, 1962

LT

Z

RT

36

47.6	47.9	48.2	49.1	50.0	49.5	49.1	48.9	49.4	51.1
5.7	5.4	5.1	3.6	3.3	3.8	4.2	4.4	3.9	2.2
34	29	22	17		18	20	24	37	50

Topsoil
stackpile

49.1	49.1
4.2	4.2
43	50

✓

48.4	47.7	47.6	48.1	49.6	49.2	49.5	48.9	48.9	49.1	51.0
4.9	5.6	5.7	5.2	3.7	3.35	3.8	4.4	4.4	3.6	2.3
48	36	32	22	16		18	21	30	38	45

Topsoil
stackpile51.4
1.9
50

48.4	48.2	48.6
4.9	5.1	4.7
57	77	
BT. Spillway	BT. Spillway	

✓

Top NW Cor lower step Ho #1454 C. Rd. B.

" " " " " " "

51.3	51.1	49.1	48.1	49.5	49.1	49.9	49.6	49.3	48.7	49.5	49.1
2.8	3.0	5.1	6.0	4.8	4.6	4.4	4.2	4.5	4.8	5.4	6.6
50	42	32	21	18	16	11		14	20	20	30

✓

LT

RT

48.9	48.5	47.6	48.0	49.5	49.1	49.8	49.6	49.3	48.8	49.4	49.0
5.2	5.6	6.5	6.1	4.6	4.4	4.3	4.5	4.8	5.3	4.7	5.1
60	50	39	23	18	11		17	21	23	36	50

✓

Sta	+	π	-	Elev.
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		954.11		
--	--	--------	--	--

118+00				
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+34				
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+35				
-----	--	--	--	--

			6.96	
--	--	--	------	--

				947.15
--	--	--	--	--------

+39				
-----	--	--	--	--

+69				
-----	--	--	--	--

Gutter				
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			4.77	
--	--	--	------	--

				949.34
--	--	--	--	--------

119+85				
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119+00				
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FK
RS
WM
LB
MMS

Oct 25, 1962
25° Windy

LT

±

RT

37

49.2	48.6	49.6	49.9	49.5	49.6	49.78	49.4	48.9	48.1
4.9	5.5	6.5	6.2	4.6	4.5	4.33	4.7	5.2	6.0
60	50	38	24	17	11		18	30	50

✓

49.0	48.9	49.2	49.2	48.3	49.4	49.7	49.8	49.5	49.0	48.6	48.3
5.1	5.2	5.9	6.9	5.8	4.7	4.4	4.3	4.6	5.1	5.5	5.8
60	50	38	31	26	21	12		14	23	36	50

✓

LT 31' INV 15" SEP w/ Apron

48.9	49.1	49.5	49.8	49.8	49.5	49.1	48.9	48.5
5.2	5.0	4.6	4.3	4.3	4.6	5.0	5.3	5.6
50	33	26	11		15	22	31	50

✓

48.9	49.6	49.7	49.8	49.9	49.7	49.3	48.3
5.2	4.6	4.4	4.3	4.2	4.4	4.8	5.8
50	30	19	12		15	29	50

✓

MH 45' LT Sta 118+75±

48.9	49.2	49.3	49.4	49.7	49.8	49.7	49.2	48.5	48.9
5.2	4.9	4.8	4.7	4.4	4.3	4.4	4.9	5.6	7.2
100	50	38	25	17		15	30	50	100

✓

48.8	48.7	49.2	49.7	49.8	49.6	49.2	48.6	48.2
5.3	5.4	4.9	4.4	4.3	4.5	4.9	5.5	5.9
50	40	25	14		15	28	40	50

✓

Sta	+	π	-	Elev.
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		954.11		
--	--	--------	--	--

119+19				
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+37				
-----	--	--	--	--

		4.65	949.46	
--	--	------	--------	--

+53				
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120+00	B.T. Ent	RT		
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+50				
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TP	3.70	953.03	4.78	949.33
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121+00				
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Oct 25, 1962

LT

#

RT

38

48.3	48.1	48.1	49.3	49.5	49.7	49.5	49.0	49.2	49.5
5.8	6.0	5.4	4.8	4.6	4.4	4.6	5.1	4.9	4.6
50	38	25	19	14		14	24	25	50



S.W. 33' LT

ret.



48.1	47.9	48.9	49.5	49.6	49.3	49.3	49.4	49.5	49.6
6.0	6.2	5.2	4.6	4.5	4.8	4.8	4.7	4.6	4.5
50	33	23	14		14	19	34	50	75

140



48.2	47.8	48.1	49.3	49.5	49.2	49.2	49.5	50.0	50.42
5.9	6.3	5.4	4.8	4.6	4.9	4.9	4.6	4.1	3.69
50	34	24	16		14	22	34	50	67

conc



48.5	48.3	48.0	48.5	49.1	49.5	49.2	49.1	49.4	49.6	49.9
5.6	5.8	6.1	5.6	5.0	4.6	4.9	5.0	4.7	4.5	4.2
50	40	28	21	15		13	18	20	35	50

PK nail Estn 121400

48.1	47.9	48.5	49.0	49.3	49.9	48.7	49.4	49.8	50.2
4.9	5.1	4.5	4.0	3.7	4.1	4.3	3.6	3.2	2.8
50	35	22	14		15	18	38	50	76

140



Sta	+	T	-	Elev
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		953.03		
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21+22	conc ent Rt			
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+54	conc ent Rt			
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22+00				
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+03		4.53	948.50	
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+50				
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+75		4.21	948.82	
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23+00				
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Oct 25, 1962

LX

E

RT

39

48.2	48.1	47.6	49.0	49.2	48.1	49.35	49.99	50.38
4.8	4.9	5.4	4.0	3.8	4.3	3.68	3.04	2.65
50	39	26	15		19	33.4	55	72
						conc	conc	conc

48.2	47.9	48.0	48.1	49.0	48.5	48.8	49.23	48.66	50.43
4.8	5.1	5.0	4.3	4.0	4.5	4.2	3.80	3.37	2.60
50	40	28	15		17	26	33.7	50	73
							conc	conc	conc

47.4	47.6	47.8	48.4	48.1	48.1	48.5	48.7	48.5
5.6	5.4	5.2	4.6	4.3	4.9	4.5	4.3	3.5
50	40	26	14		19	21	31	50

MH 14 31'

48.2	48.0	48.3	48.5	47.9	48.3	48.7	49.0
4.8	5.0	4.7	4.5	5.1	4.7	4.3	4.0
50	32	18		18	21	31	50

conc. Ent RT 34'

48.3	47.8	48.0	48.38	47.9	48.2	48.4	48.1
4.7	5.2	5.0	4.65	5.1	4.8	4.6	4.3
50	33	20		19	21	32	50

Sta + π - Elev

953.03

+50 Conc ent Rt



+87

4.80

948.23

124+00

+30 Gravel Ent Rt

+48 Profile Ditch (Rt)

+60

FP 2.85 952.59 3.29 949.74 (949.74)

+97 Berm Line Left

Oct 25, 1962

LT

E

RT

90

48.2	47.9	48.0	48.1	47.9	48.6	48.88	49.12
4.8	5.1	5.0	4.9	5.1	4.57	4.15	3.91
55	35	21		18	33	50	71
					conc	conc	conc

S.W. 31° 14

48.1	47.9	48.0	48.1	47.9	48.2	48.4	48.7
4.9	5.3	5.0	4.9	5.1	4.8	4.6	4.3
50	35	20		18	21	35	50

47.9	47.7	47.9	48.1	47.9	48.0	48.5
5.1	5.3	5.1	4.9	5.1	5.0	4.5
50	34	21		19	30	50

48.2	47.8	47.7	47.3	47.3	47.2
4.8	5.2	5.3	5.7	5.7	5.8
20	33	50	77	87	

48.0	47.8	47.8	48.1	47.9	48.2	48.5	48.8
5.0	5.2	5.2	4.9	5.1	4.8	4.5	4.2
50	35	19		19	21	37	50

Top NW Cor lower step Ho. # 1408 Co. Rd. B

47.3	47.6	47.4	47.8	48.1	48.0	48.0	48.25	48.61
5.3	5.0	5.2	4.8	4.5	4.6	4.6	4.34	3.98
50	32	25	15		15	22	33	50

conc Lnt

Sta + π - Elev

952.59

125 Gutter Left

+13 Φ

+26 5.76 946.83 M.H. 20' Lt

+28 Gutter Left

+42

+47

+72

+66

6.03 946.56

Oct. 25, 1962

LT

E

RT

41

46.7	46.9	47.4	47.8	48.1	47.9	48.0	48.25	48.61
5.9	5.7	5.2	4.8	4.5	4.7	4.6	4.34	3.98
50	37	25	13		14	22	33	50
								Conc V

46.6	47.1	47.20	47.4	47.9	48.1	47.9	48.1	48.25	48.61
6.0	5.5	5.39	5.2	4.7	4.5	4.7	4.5	4.34	3.98
100	50	35	29	13		14	24	33	50
								Conc Ent	

46.4	46.7	47.3	48.0	48.1	47.9	48.2	48.2	48.8
6.2	5.9	5.3	4.6	4.5	4.7	4.4	4.4	3.8
100	50	23	12		15	20	32	50

46.8	46.7	46.39	47.4	47.9	48.2	48.0	48.0	48.3	48.3	48.8
5.8	5.9	6.20	5.2	4.7	4.4	4.6	4.6	4.3	4.3	3.8
50	28	27	26	15		14	18	20	34	50
FL 15 CM										

47.9	47.2	47.5	47.9	48.3	48.0	48.3	48.3	48.9
4.7	5.4	5.1	4.7	4.3	4.6	4.3	4.3	3.7
50	35	26	16		16	19	31	50

47.9	47.6	46.8	47.4	48.1	48.3	48.1	48.2	48.25	48.2	48.9
4.7	5.0	5.8	5.2	4.5	4.3	4.5	4.4	4.34	3.32	2.7
50	38	28	20	15		17	22	28	50	70

E End Culv 26' LT

✓

Sta	+	π	-	Elev.
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		952.59		
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126				
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+21				
-----	--	--	--	--

+37				
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+73				
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127				
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TP	6.20	955.27	3.52	949.07
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+29				
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48.45 Lt Rt 42
 4.14 48.0 47.5 46.8 47.2 48.4 48.5 48.1 48.5 48.9 49.5
 4.6 5.1 5.8 5.4 4.2 4.1 4.5 4.1 3.7 3.1 ✓
 76 50 36 29 21 14 18 21 34 50
 Ho

48.0 47.6 47.2 47.6 48.5 48.8 48.3 48.16 49.48 50.26 ✓
 4.6 5.0 5.4 5.0 4.1 3.8 4.3 3.83 3.11 2.33
 80 50 29 19 14 18 30 50 73
 Conc

48.88 48.40 48.1 48.3 48.1 48.9 48.5 48.6 48.9 49.6
 3.71 4.19 4.5 4.3 3.9 3.7 4.1 4.0 3.7 3.0 ✓
 73 52 36 20 15 17 20 33 50
 Conc

48.5 47.1 48.0 48.9 49.4 48.7 48.9 48.7 49.2
 4.0 4.9 4.6 3.7 3.2 3.9 3.7 3.9 3.4 ✓
 61 31 21 13 19 21 34 50

47.0 47.0 47.9 49.0 49.6 48.7 49.0 49.0 49.5
 49.1 49.1 50.6 51.1 52.3 51.4 51.4 51.4 52.2 ✓
 5.6 5.6 4.7 3.6 3.0 3.9 3.6 3.6 3.1 ✓
 65 34 21 13 19 20 30 50

47.4 47.1 48.1 49.3 49.8 49.1 49.07 49.31 49.59 50.13
 7.9 7.6 7.2 6.0 5.5 6.2 6.20 5.96 5.68 5.14
 50 35 20 13 18 26 37 50 74
 Vacant Lt Conc Ho

Sta	+	x	-	Elev
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		955.27		
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127+60				
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+72				
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+90				
-----	--	--	--	--

		6.17		949.10
--	--	------	--	--------

128				
-----	--	--	--	--

+27	EE	LL		
-----	----	----	--	--

+43				
-----	--	--	--	--

✓				
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Oct 25, 1962

43

2

47.4	47.7	48.4	49.6	50.0	49.4	49.6	50.1
7.9	7.6	6.9	5.7	5.3	5.9	5.7	5.2
50	31	19	14		19	32	50

✓

49.3	49.1	48.6	49.8	50.1	49.5	49.7	49.54	49.99	50.31
6.0	6.2	6.7	5.5	5.2	5.8	5.6	5.73	5.28	4.90
50	35	19	14		18	26	32	50	73

Top MH 19' L1

Conc Ho

49.6	49.2	48.9	49.9	50.2	49.7	49.9	49.9	50.0
5.7	6.1	6.4	5.4	5.1	5.6	5.4	5.4	5.3
50	32	21	12		19	22	35	50

✓

49.52	49.46	49.6	50.2	50.3	49.9	50.1	49.9	50.2
5.75	5.81	5.7	5.1	5.0	5.4	5.2	5.4	5.1
67	42	23	12		19	22	34	50

✓

49.3	50.6	49.6	50.0	50.1	50.4	49.9	50.3	50.3	50.5
6.0	4.7	5.7	5.3	5.2	4.9	5.4	5.0	5.0	4.8
B. T.	23	16	11			20	23	37	50

(3511)
Well

51.1	49.2
4.2	6.1
Test	Bottom West
50	

✓

Sta + π - Elev.

955.27

128+62 $\pm$ Ent Lt

+75

129

BM 5.87 957.66 3.48 951.79 (951.79)

+40

+59

130

LT

2

RT

50.9	50.3	50.4	50.1	50.6	50.4	50.5	50.72	51.22	52.0
4.4	5.0	4.9	5.2	4.7	4.9	5.0	4.55	4.05	3.20
50	36	21	19		12	16	30	50	78

REVERSE SECTION Conc Ho

51.2	50.7	50.3	50.7	50.8	50.3	50.4	50.51	50.92	51.27
4.1	4.6	5.0	4.6	4.5	5.0	4.9	4.76	4.35	4.00
50	29	19	12		19	26	33	50	74

Conc Ho

51.4	51.1	50.7	51.0	51.1	50.5	50.7	50.6	51.2
3.9	4.2	4.6	4.3	4.2	4.8	4.6	4.7	4.1
50	30	19	13		20	22	34	50

Top N.W. Cor Lower step 1372 W Co Rd B

50.4	50.5	51.2	51.3	51.8	51.9	51.1	51.2	51.2	51.7
7.3	7.2	6.5	6.4	5.9	5.8	6.6	6.5	6.5	6.0
63	35	29	17	12		21	23	36	50

51.4	51.3	51.7	52.2	52.3	51.6	51.34	51.73	52.61
6.3	6.4	6.0	5.5	5.4	6.1	6.32	5.93	5.05
50	32	16	13		20	31	50	84

Conc Garage

52.4	52.6	51.7	52.9	53.0	52.9	52.2	52.2	51.1	51.4	51.1
5.3	5.1	6.0	4.8	4.7	4.8	5.5	5.5	6.6	6.3	6.0
50	31	22	13		9	18	21	25	32	50

✓

Sta	+	π	-	Elev.
		957.66		
130 + 50				
+ 67			3.86	953.80
+ 73				
TP	5.08	958.88	3.86	953.80
131				
+ 50				
+ 70				
+ 84				
132			3.1	955.8

Oct. 25, 1962 45
 LT RT

54.3	54.3	53.1	53.0	53.5	53.9	53.7	53.2	51.6	52.4	52.2
34	34	46	47	42	38	40	45	6.1	5.3	5.5
50	36	27	20	16		10	20	25	39	50

Top MH 18' L1.

55.6	55.3	54.2	53.8	53.9	54.3	54.0	53.6	52.3	52.6	52.1
56.7	56.8	55.4	55.0	55.1	55.5	55.2	54.8	53.8	53.8	53.3
2.1	2.4	3.5	3.9	3.8	3.4	3.7	4.1	5.4	5.1	5.6
60	45	29	24	15		11	20	25	37	50

↓

55.13	55.3	54.6	54.3	54.6	54.9	53.9	52.4	53.0	52.3
3.5	3.6	4.3	4.6	4.3	4.5	5.0	6.5	5.9	6.6
34	43	29	16		12	19	24	36	50

Conc

55.6	55.5	54.9	54.6	54.8	55.1	54.9	54.0	53.3	52.9
3.3	3.4	4.0	4.3	4.1	3.8	4.2	4.9	5.6	5.0
50	44	31	19	12		11	19	29	50

55.6	55.6	55.1	54.9	55.1	55.3	55.0	54.9	54.2	54.5	53.4
3.3	3.3	3.8	4.0	3.8	3.6	3.9	4.2	4.7	4.4	5.5
50	41	32	21	12		10	20	24	37	50

55.1	55.2	55.2	55.2	55.2	55.4	55.5	55.4	55.5	55.8
3.8	3.7	3.7	3.7	3.7	3.5	3.4	3.5	3.4	3.1
29	57	43	29	13		11	29	50	

100

Sta	+	π	-	Elev.
-----	---	-------	---	-------

958.88

132+02	$\pm$	Hamline		
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✓

BM

3.35 955.53 955.53

Oct. 25, 1962

46

Lt

Lt

Rt

55.6	55.6	55.5	55.6	55.7	55.8	55.8	55.9	56.1	56.3 ✓
3.3	3.3	3.4	3.3	3.2	3.1	3.1	3.0	2.8	2.6
100	73	47	29	16		12	32	50	71
55.5	55.3	54.9					54.7	56.9	
3.4	3.6	4.0					1.2	2.0	
125	105	220					150	100	

Spike in PP S.W. Cor Hamline "B"

Spotted

Reduced X.V.
Checked L. D. G.

Sta	+	π	-	Elev.
BM	4.27	959.26		954.98

109

+15

+24

+57

+77

110

FR
WM
MMc

2

Nov. 9, 1962
RT

47

Top N.W. Cor. Base of D.X. Sign

5.12	4.9	4.6	4.5	4.3	4.1
50	67	85	104	119	150

5.18	4.9	4.6	4.5	4.3	4.0
50	69	90	112	133	150

5.24	4.9	4.6	4.5	4.3	4.1
50	72	96	117	138	150

5.40	4.9	4.8	4.6	4.3	
50	80	104	125	150	

5.48	5.1	5.0	4.9	4.8	4.4
50	75	102	112	130	150

5.59	5.5	5.2	5.1	4.9	4.6
50	64	86	117	129	150

Sta + π - Elev

959.26

110+27

+40

+75

111

54.9

+16

1/2 land Lt 8150

3.91

955.35 135.86

£

FA

Nov. 9, 1962

48

5.77	5.5	5.2	5.1	4.9
50	74	106	127	150

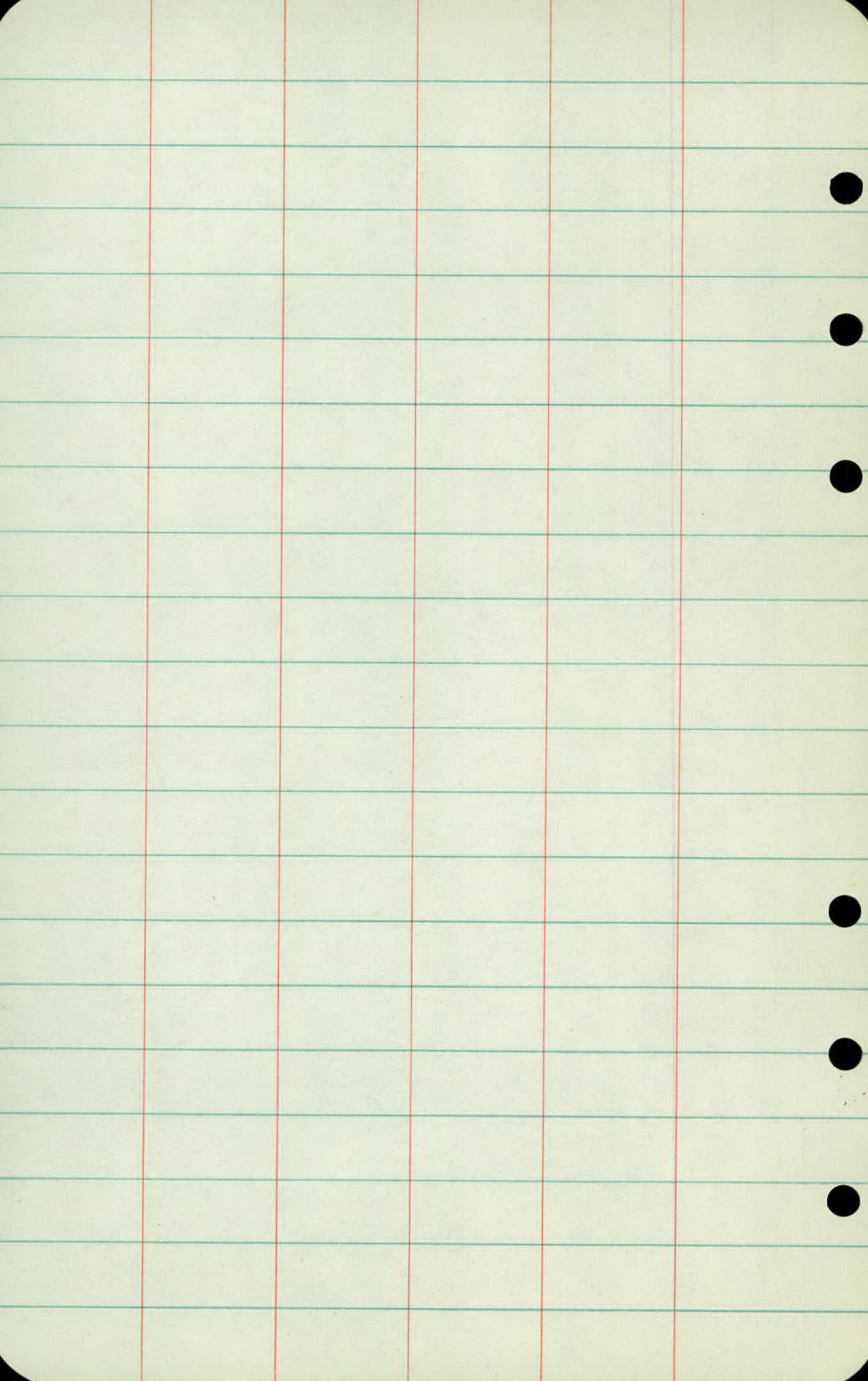
5.86	5.6	5.4	5.3	5.1
50	75	101	126	150

6.01	5.8	5.6	5.5	5.4	5.4
50	74	98	116	141	150

54.61

4.65	5.78	5.8	5.6	5.7	5.6
£	50	73	100	126	150

5.60	5.8	5.7	5.6	5.6
	76	99	127	250



KP
WS
DS.

4 DEC. 1962

R. BOSS

Co. Rd. B
SNELLING TO HAMLINE

M H ELEVATIONS

MISC. INFORMATION

Recd. 12/5/62
K. J.

STA

+

K

-

ELEV.

949.78

118

4.34

954.12

4.79

49.33

4.57

49.55

LT

~~LT~~

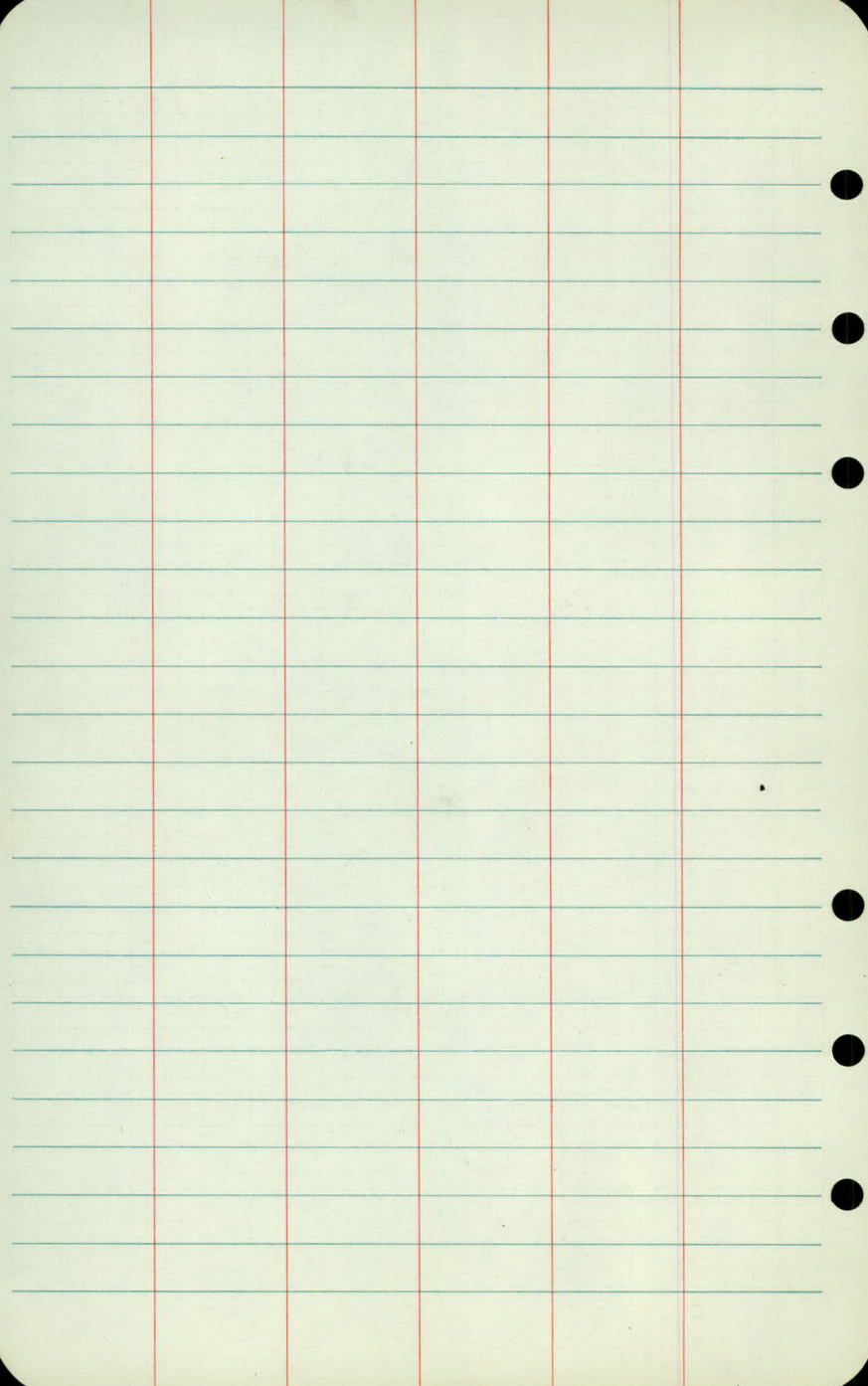
RT

TOP PR ~~LT~~ STA 118+00

TOP MH STA 118+73 45' LT

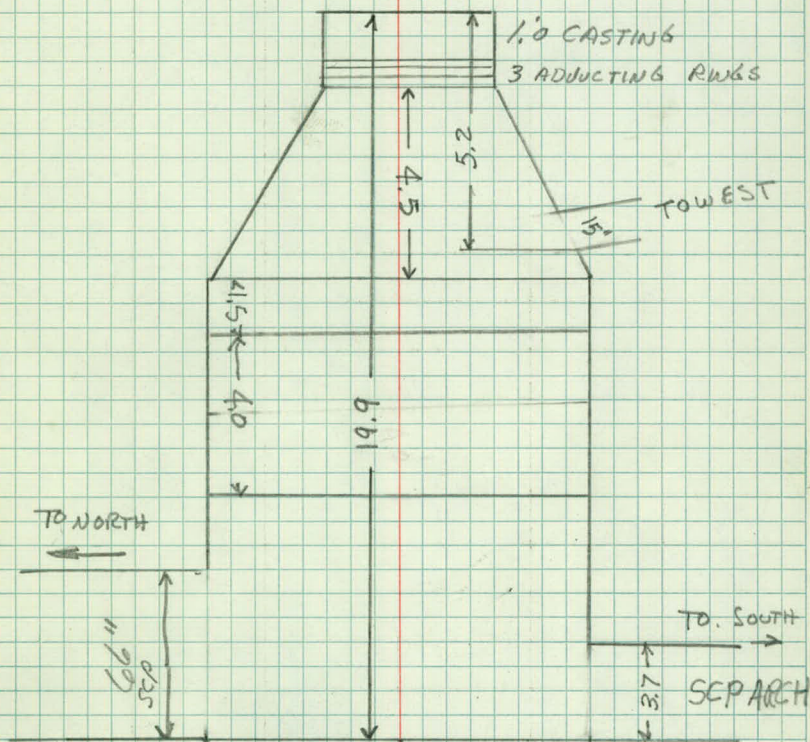
CASTING = 1.0'

TOP MH 18+86 30' LT



MH

118+73 LT 45.0

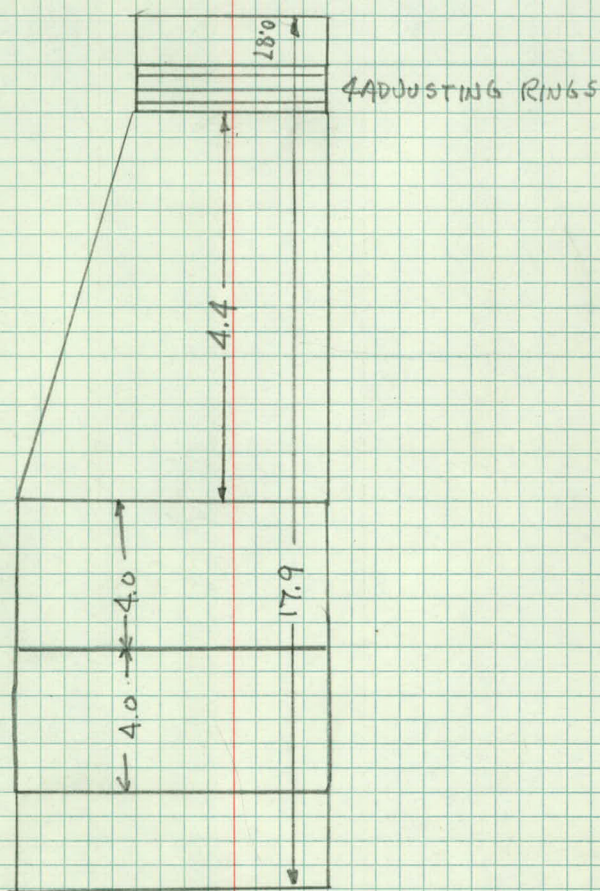


110+29 LT 29.0

110 5.15 960.05 954.9

5.48 54.57

FLWS FROM
N;W TO E.



± STA 110

TOP MH 110+29 LT 29.0

109+53 LT 28

CASTING = 0.87

112+77 LT 29

CASTING = 1.0

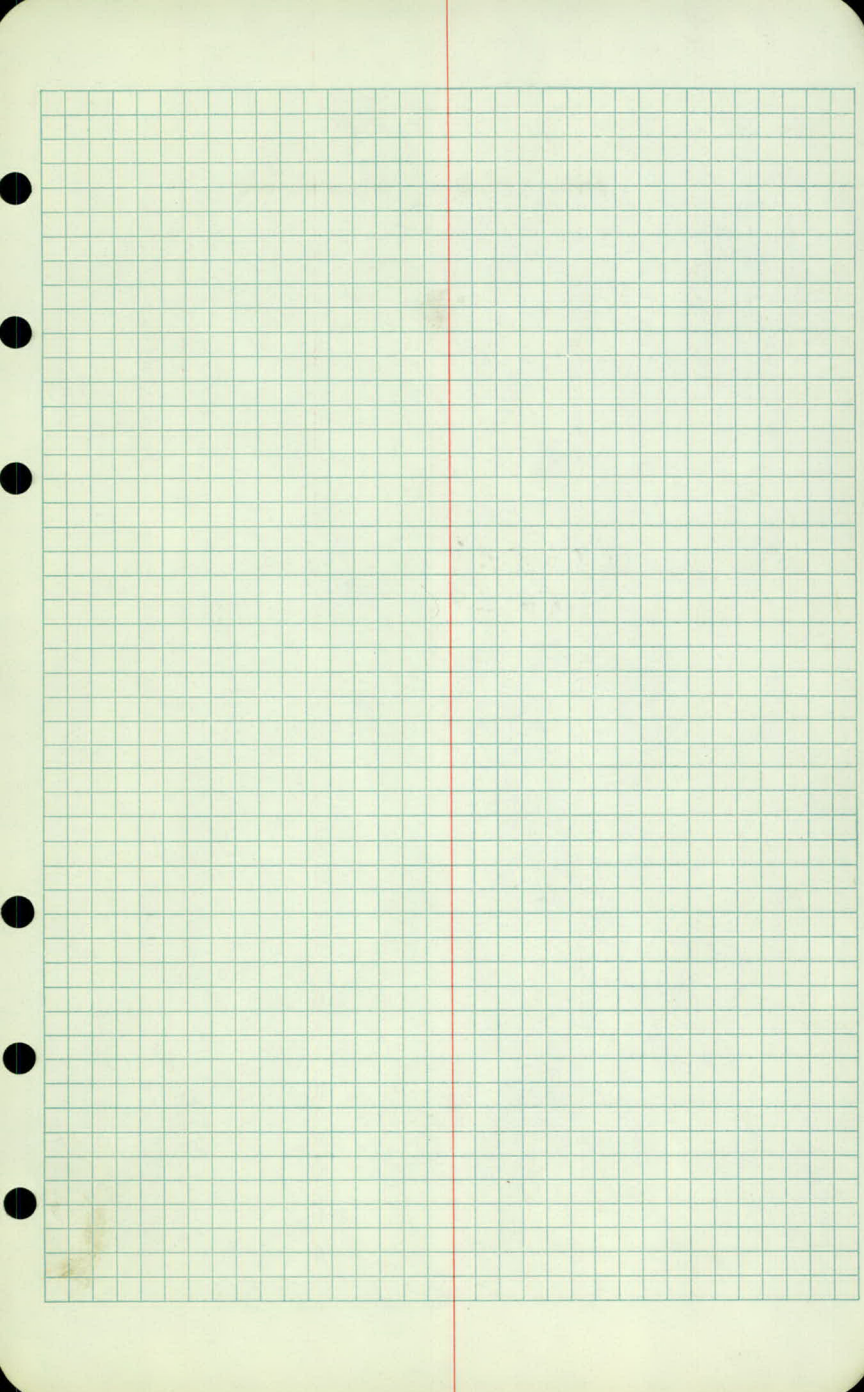
DIAMETER OF COVER = 2.1

112+79 RT 29.0

CASTING = 1.0

115+40 LT 29.0

CASTING = 1.0



118+73 LT 45.0

CASTING = 1.0

118+86 LT 30'

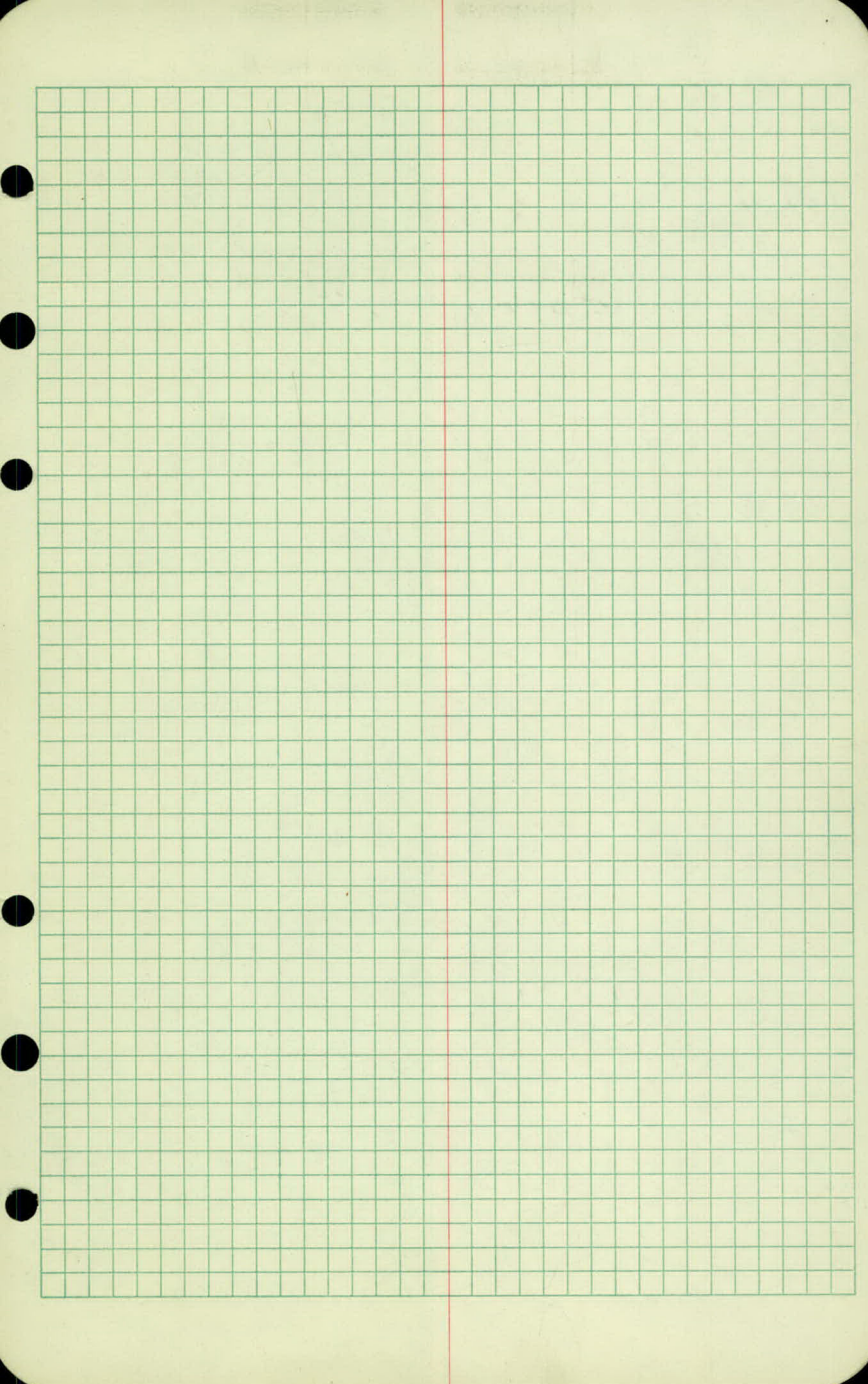
CASTING = 1.0

122+03 LT 30'

CASTING 1.0

125+13 LT 36'

CASTING 0.35



125+30 19.0 LT

CASTING = 1.0

127+89 19.0 LT

CASTING = 1.0

130+65 LT 18.0

CASTING = 1.0

Sanitary M.H.'s
Diagrams

Rec. 10/25/62

Sanitary
Manholes

109+53

Lt 28'

112+77

Lt 29'

112+79

RT 12'

?? RP 12-4-62

RT 29.0

115+40

Lt 29'

118+86

Lt. 30'

Lt.

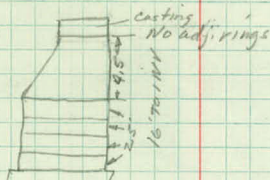
Rt.

16

← N

109+53

Lt 28'



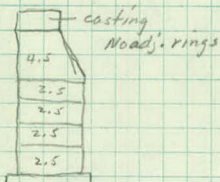
5286

← N

112+77

Lt 29'

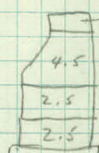
16' 10" 11' 11"



← N

Top View

5286



112+79

Rt 12'

4.5'

← N

118+86

Lt. 30'



Sanitary M.H.

122+03 Lt 30'

125+13 Lt 36'

125+30± Lt 19'

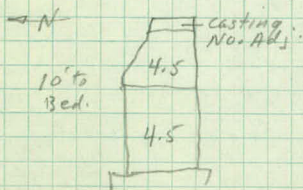
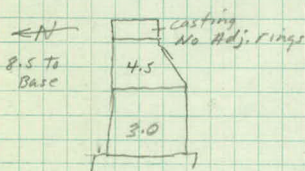
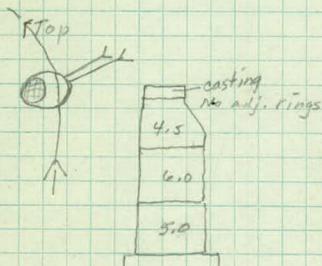
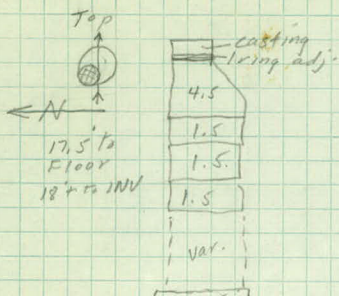
127+89 Lt 19'

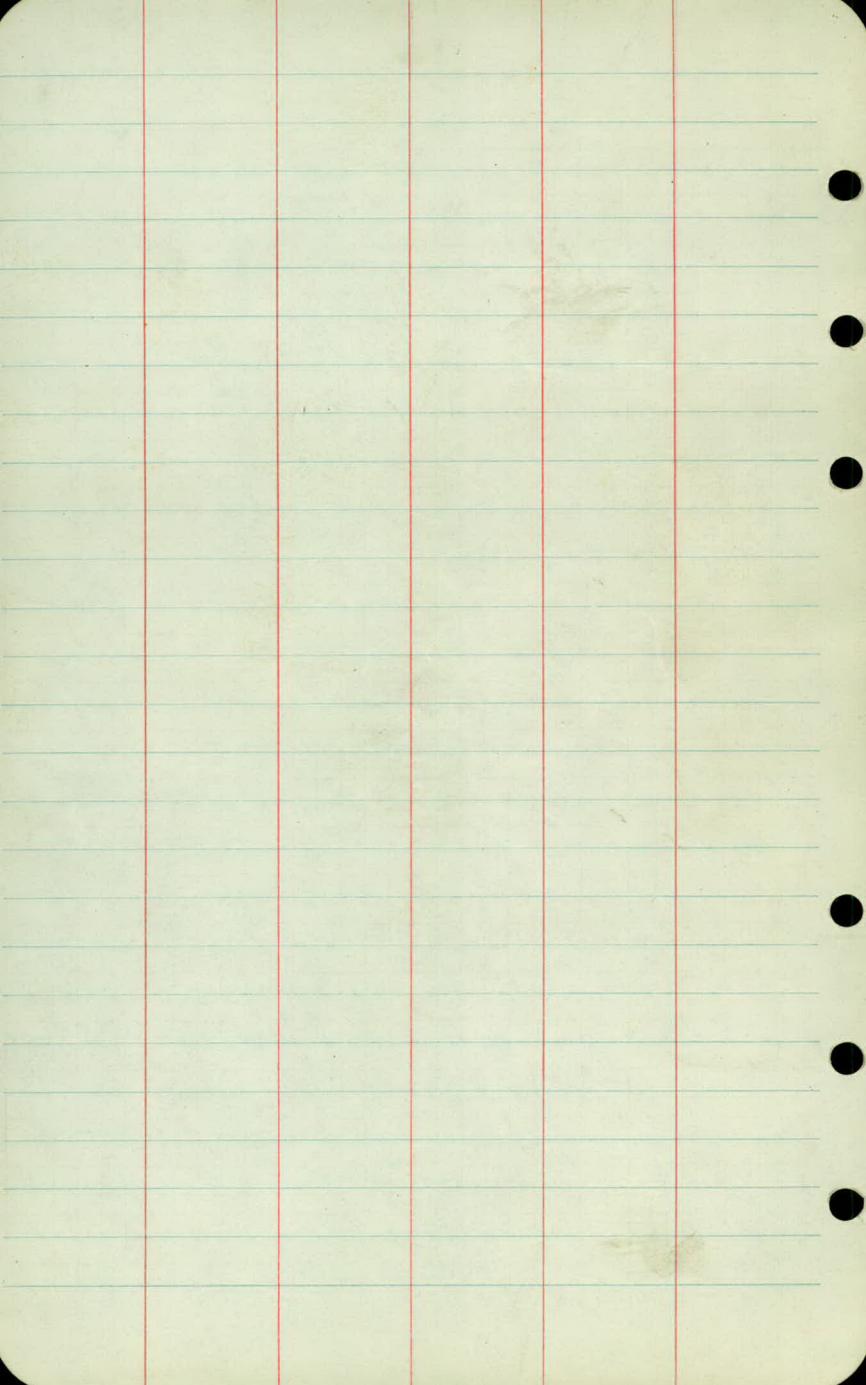
130+65 Lt 18'

Lt

Rt

17





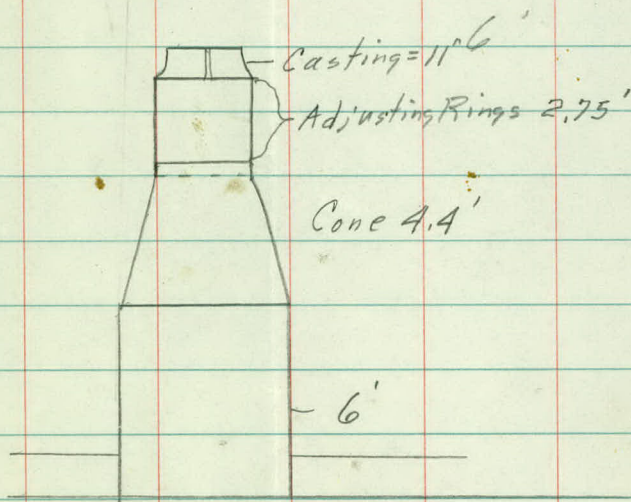
115 + 40 Lt. 29'

Type of M.H.

Casting = 11'

Adj. Rings 2.75'

CONE 4.4'



110 + 29 Lt 29'

use Φ 110 = 54.9

