

OFFICE OF COUNTY ENGINEER  
RAMSEY COUNTY, MINN.

PLAN

Survey

McKNIGHT RD.

From Co. Rd "C" To Co. Rd "D"

Road Acc't. No. 68

Date Filed 10-21-74

File 13-100

1 DEC 1969

MCKNIGHT RD  
CO RD C - CO. RD D

BENCH ELEVATIONS



| STA | +     | $\pi$  | -     | ELEV            |
|-----|-------|--------|-------|-----------------|
| BM  | 4.35  | 974.95 |       | (970.60)        |
| TP  | 6.15  | 972.88 | 8.22  | 966.73          |
| TP  | 6.33  | 974.20 | 5.01  | 967.87          |
| BM  | 0.22  | 972.54 | 1.89  | 972.31 (972.32) |
| TP  | 3.75  | 971.59 | 4.76  | 967.84          |
| BM  | 0.66  | 970.23 | 2.04  | 969.55 (969.57) |
| BM  | 4.33  | 971.46 | 3.10  | 967.13 (967.13) |
| TP  | 8.25  | 978.04 | 1.67  | 969.79          |
| BM  | 7.71  | 984.45 | 1.30  | 976.74 (976.74) |
| TP  | 11.32 | 992.79 | 2.98  | 981.47          |
| TP  | 6.38  | 995.65 | 3.52  | 989.27          |
| BM  | 5.50  | 998.83 | 2.33  | 993.32 (993.33) |
| BM  | 0.65  | 997.93 | 1.60  | 997.23 (997.28) |
| BM  | 4.52  | 995.61 | 6.82  | 991.11 (991.09) |
| TP  | 10.13 | 991.99 | 13.75 | 981.86          |
| BM  | 2.59  | 984.38 | 10.19 | 981.80 (981.79) |
| TP  | 11.53 | 985.03 | 10.88 | 973.50          |
| TP  | 5.12  | 976.91 | 13.24 | 971.79          |
| BM  | 5.45  | 971.77 | 10.57 | 966.34 (966.32) |

# Description

TOP HYD N.E. COR MOHAWK

£ STA 2+00

£ STA 3+00

TOP HYD RT STA 6+96

£ STA 8+00

TOP HYD RT 10+80

TOP HYD AT SHAWNEE

£ STA 16+00

TOP HYD AT NAVAJO

£ STA 19+00

£ STA 22+00

TOP HYD NW COR MAPLEVIEW

TOP HYD S.E. COR BEAM

TOP HYD NW COR MAPLE LA.

£ STA 33+00.

HYD LT 34+20.

£ STA 36+00

TOP STAKE RT 38+10

TOP HYD SW COR LYDIA

| STA | +     | $\pi$  | -     | ELEV   |        |
|-----|-------|--------|-------|--------|--------|
|     |       | 971.77 |       |        |        |
| TP  | 17.10 | 981.30 | 7.57  | 964.20 |        |
| TP  | 7.42  | 973.49 | 15.23 | 966.07 |        |
| BM  | 13.35 | 982.07 | 4.76  | 968.73 | 968.72 |
| TP  | 9.21  | 981.93 | 9.35  | 972.72 |        |
| TP  | 6.41  | 985.53 | 2.81  | 979.12 |        |
| BM  | 2.40  | 984.44 | 3.51  | 982.02 | 982.04 |
| BM  | 0.00  | 980.00 | 4.42  | 980.02 | 980.00 |
| TP  | 3.73  | 974.51 | 9.22  | 970.78 |        |
| TP  | 1.25  | 962.03 | 13.73 | 960.78 |        |
| TP  | 8.60  | 959.75 | 10.88 | 951.15 |        |
| TP  | 9.59  | 965.38 | 3.96  | 955.79 |        |
| BM  |       |        | 4.67  | 960.71 | 960.71 |



# Description

± STA 41+00

± STA 44+00

TOP HYD LT 45+03

± STA 50+00

± STA 53+00

TOP HYD SW COR D

TOP MONT MCKNIGHT C'D

SPIKE IN PP NE COR D E KARTH RD

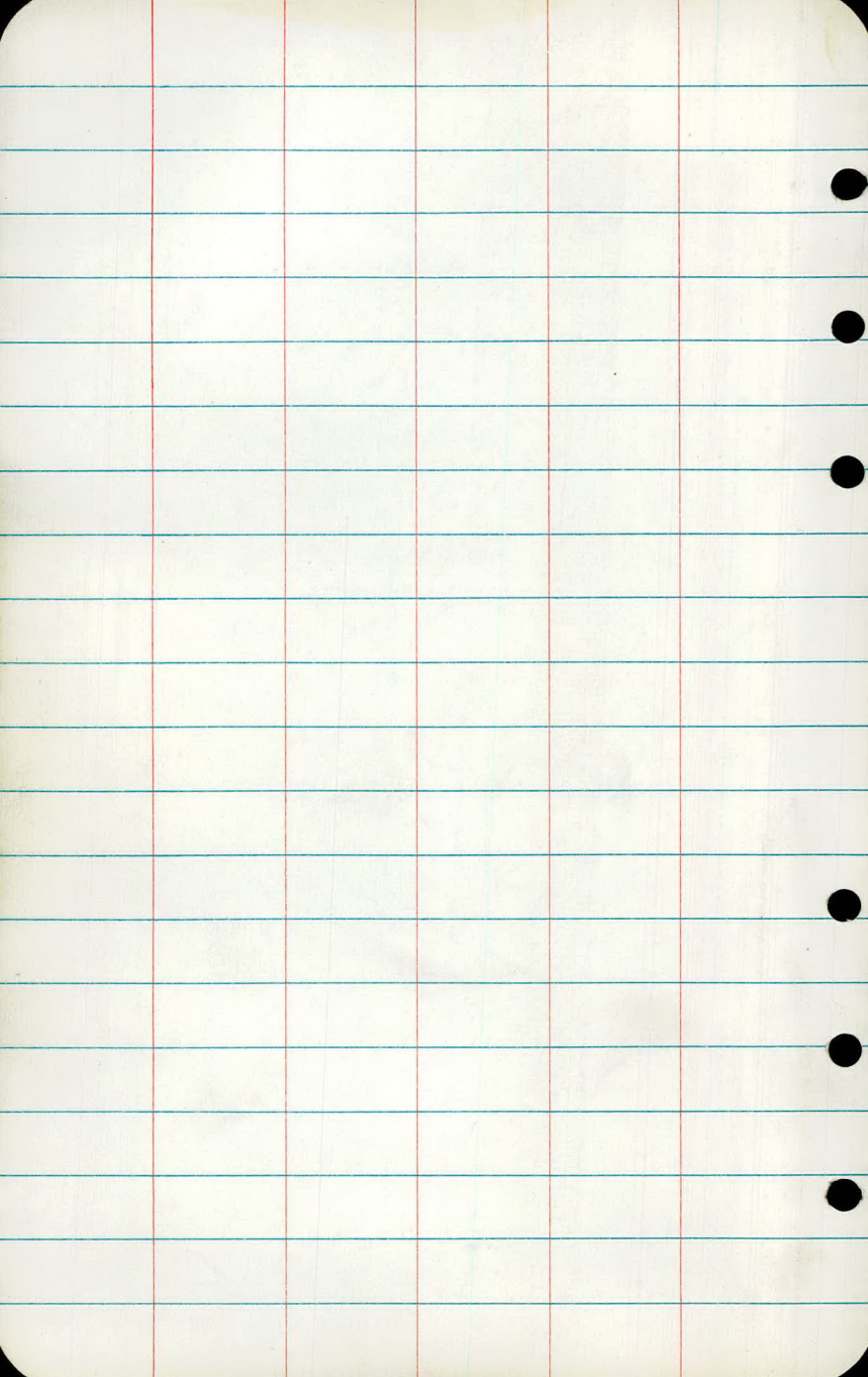
SPIKE IN PP 50' E SE Cor Fe

SPIKE IN PP SW Cor Fe at Pond

SPIKE IN PP 500' E OF  $\frac{1}{4}$  Cor

$\frac{1}{2}$ " LAG BOLT IN 20" ELM 90' E 40's

S  $\frac{1}{4}$  Cor Sec 35 - T30 - R22



KP  
CM  
ML

1 DEC. 1969 1.  
SUNNY 45°



W. LINE SEC 1 - T29 - R21W

McKNIGHT RD

Co. RD C To Co. RD D

PLAN SURVEY

NW COR S-1

Co. RD D

W  $\frac{1}{4}$  Cor S-1

BEAM AVE.

SW COR S-1

Co. RD C



| STA | POINT | ΔLT | ΔRT | CURVE<br>DATA |
|-----|-------|-----|-----|---------------|
|-----|-------|-----|-----|---------------|

|                     |  |  |  |  |
|---------------------|--|--|--|--|
| 54+23 <sup>62</sup> |  |  |  |  |
|---------------------|--|--|--|--|

|             |        |  |  |  |
|-------------|--------|--|--|--|
| 26+27.92 PI | 0°24.0 |  |  |  |
|-------------|--------|--|--|--|

|      |  |  |  |  |
|------|--|--|--|--|
| 0+00 |  |  |  |  |
|------|--|--|--|--|

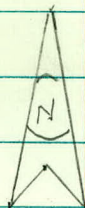
LT

£

1 DEC 1969

2.

RT



90°43.0'

£ Co RD. D

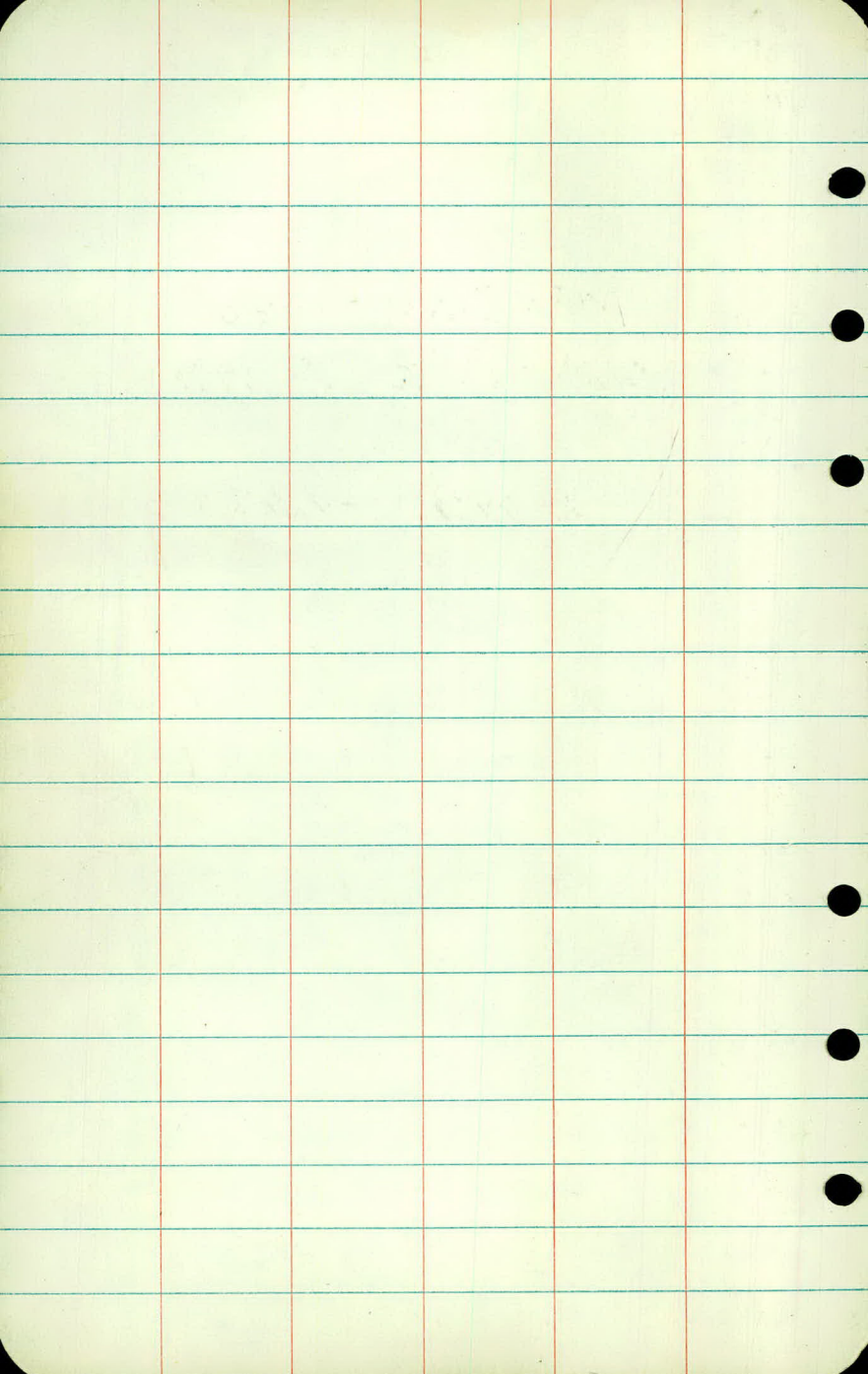
2795.72

£ BEAM AVE

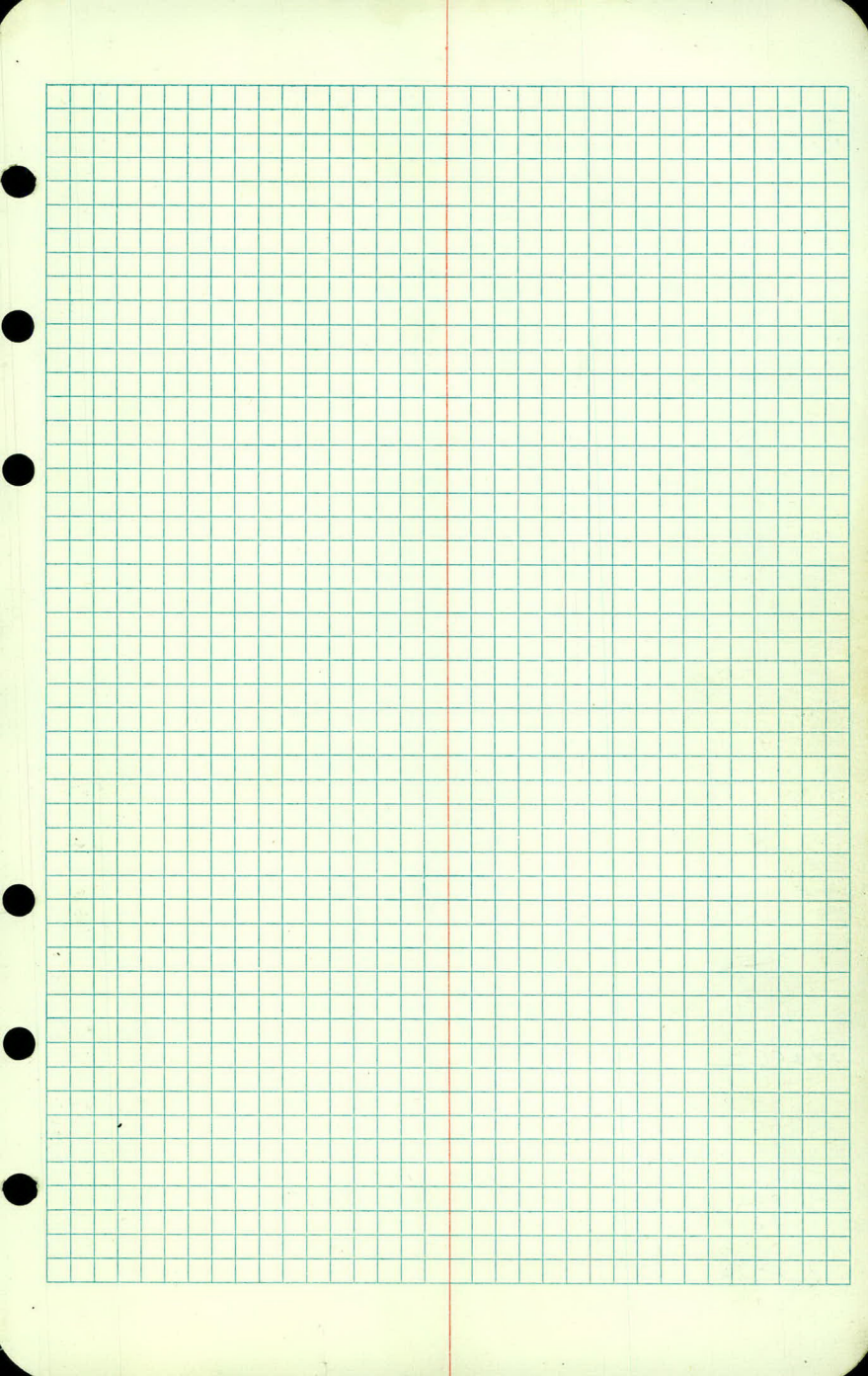
2627.92

89°10'

£ Co RD C







LT

E

RT

+45 Bush  
38+51 POR  
26+41 Bush  
37+39 Bush  
40+43 B.R.  
20+16 SFCOR House  
43+42 Fe Cor  
33+17 Bit  
16

2

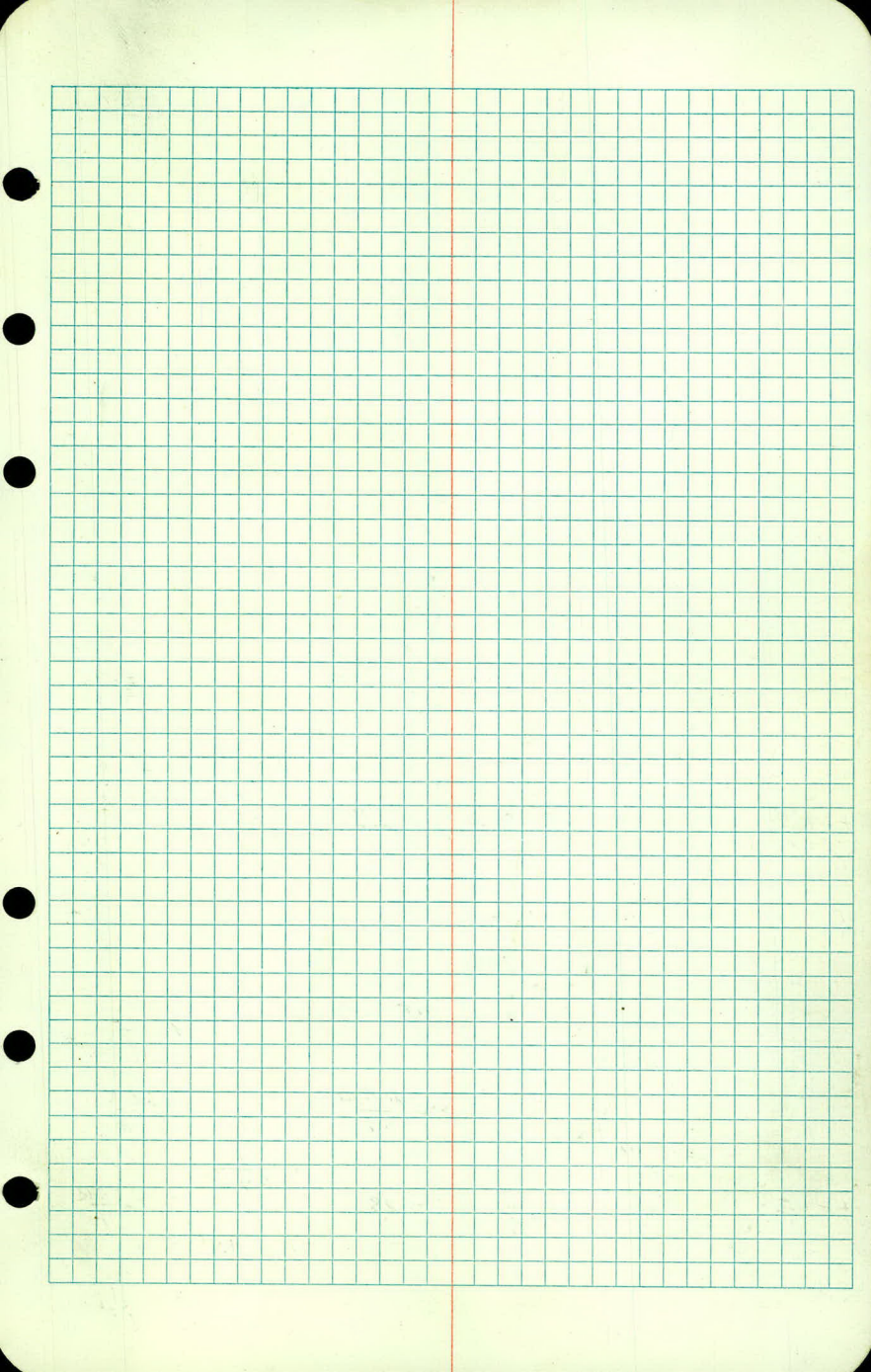
+00 Bit  
17+00 Fe  
33+00 Bit  
16+83  
48+59 PP  
25+49  
16+45 Bush  
48+37 Fe Cor  
34+34 Arbovide  
35+34 Arbovide  
45+38 50  
Fe Cor+30 Wall  
34-49+30 Steps  
39+21 B. Fe  
5018 2' conc drive  
26+7 wall  
34-48

1

+00 Bit  
18+00 Bit  
20+37 CB + ER  
20+72 SFCOR House  
43+41 8" ELM  
46+61 SFCOR House  
51+27 POR  
25+30 B. wall  
26+40 MH  
12  
+36 ER  
21+36 CB  
23+27 MH  
31+22 CB  
33+27 POR  
26+25 SW  
33+18 MH  
31

O +00

+21 B.R.  
44+19 MH  
1+17 B. radius  
45+14 MH  
20





5

4

$$\frac{BIT}{18 \ 18}$$

$$+83 \frac{44 \text{ D.E.}}{33}$$

$$+62 \frac{SE \text{ cor House}}{63}$$

$$+50 \frac{BIT}{18}$$

$$+58 \frac{5" \text{ Basswood}}{34}$$

$$+74 \frac{SW \text{ cor House}}{45}$$

$$+29 \frac{MH}{1}$$

$$+35 \frac{4" \text{ Beech}}{33}$$

$$+81 \frac{5" \text{ PINE}}{34}$$

$$+67 \frac{MH}{9}$$

$$+21 \frac{POR}{22}$$

$$+26 \frac{ER}{17}$$

$$+50 \frac{BIT}{19}$$

$$+51 \frac{6 \ 3" \text{ Birch}}{44}$$

$$+19 \frac{B.B. 618 \text{ curb}}{34}$$

$$+19 \frac{BR}{27}$$

$$+26 \frac{SW \text{ cor House}}{65}$$

$$+30 \frac{\text{Teak 4" Birch}}{43}$$

$$+03 \& \text{ Mohawk}$$

$$+8 \frac{MH}{23}$$

$$+10 \frac{6" \text{ PINE}}{44}$$

3

$$\frac{BIT}{18}$$

$$+2 \frac{H\&d}{26}$$

$$+96 \frac{AR \text{ light}}{27}$$

$$+96 \frac{ER}{18}$$

$$+87 \frac{B.B. 618 \text{ curb}}{34}$$

$$+95 \frac{6" \text{ Beech}}{64}$$

$$+87 \frac{ER}{27}$$

$$+78 \frac{BR}{17}$$

$$+84 \frac{POR}{22}$$

$$+86 \frac{BR}{36}$$

$$+90 \frac{POR}{24}$$

$$+72 \& \text{ Mohawk Rd}$$

$$+46 \frac{\text{Bush}}{43}$$

$$+50 \frac{BIT}{17}$$

$$+56 \frac{ER}{38}$$

$$+66 \frac{MH}{16}$$

FK  
AS  
CM  
DW

August 1, 1969

1

# Topography

PK

1.04

0

1.02

PK

|             |            |
|-------------|------------|
| ↓ SW Cor Ho | ↓ Tot MH   |
| +62 51      | +14 19.5   |
| ↓ ER        | ↓ POR      |
| +42 20      | +25 26     |
| ↓ 10"E/m    | ↓ 12"E/m   |
| +40 88      | +40 66     |
| ↓ MH        | ↓ 9"E/m    |
| +40 12      | +40 46     |
| ↓ CB        | ↓ B. Wall  |
| +36 22      | +30 36     |
| ↓ MH        | ↓ Cor Walk |
| +19 0.5     | +25 33     |
| ↓ MH        | ↓ BR       |
| +19 31      | +18 44     |

0+00



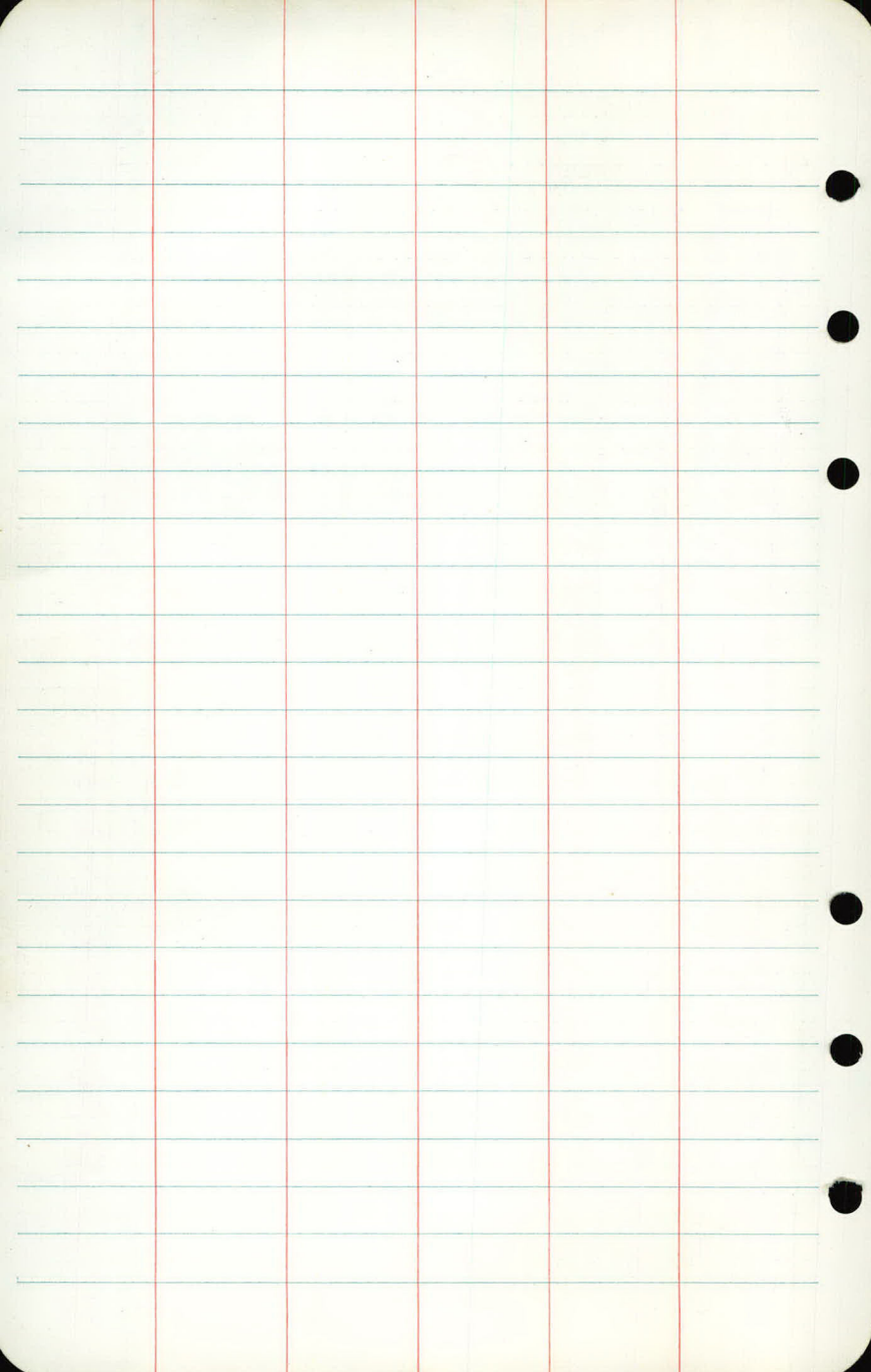
6" casting  
2 Block Adj  
Conc. Cone  
W.G.V.

9" casting  
2 Adj. Rings  
Concentric Cone  
Very Deep

8" casting No Adj. Rings  
Concentric Cone  
W.G.V.

4.5' Loose Stone

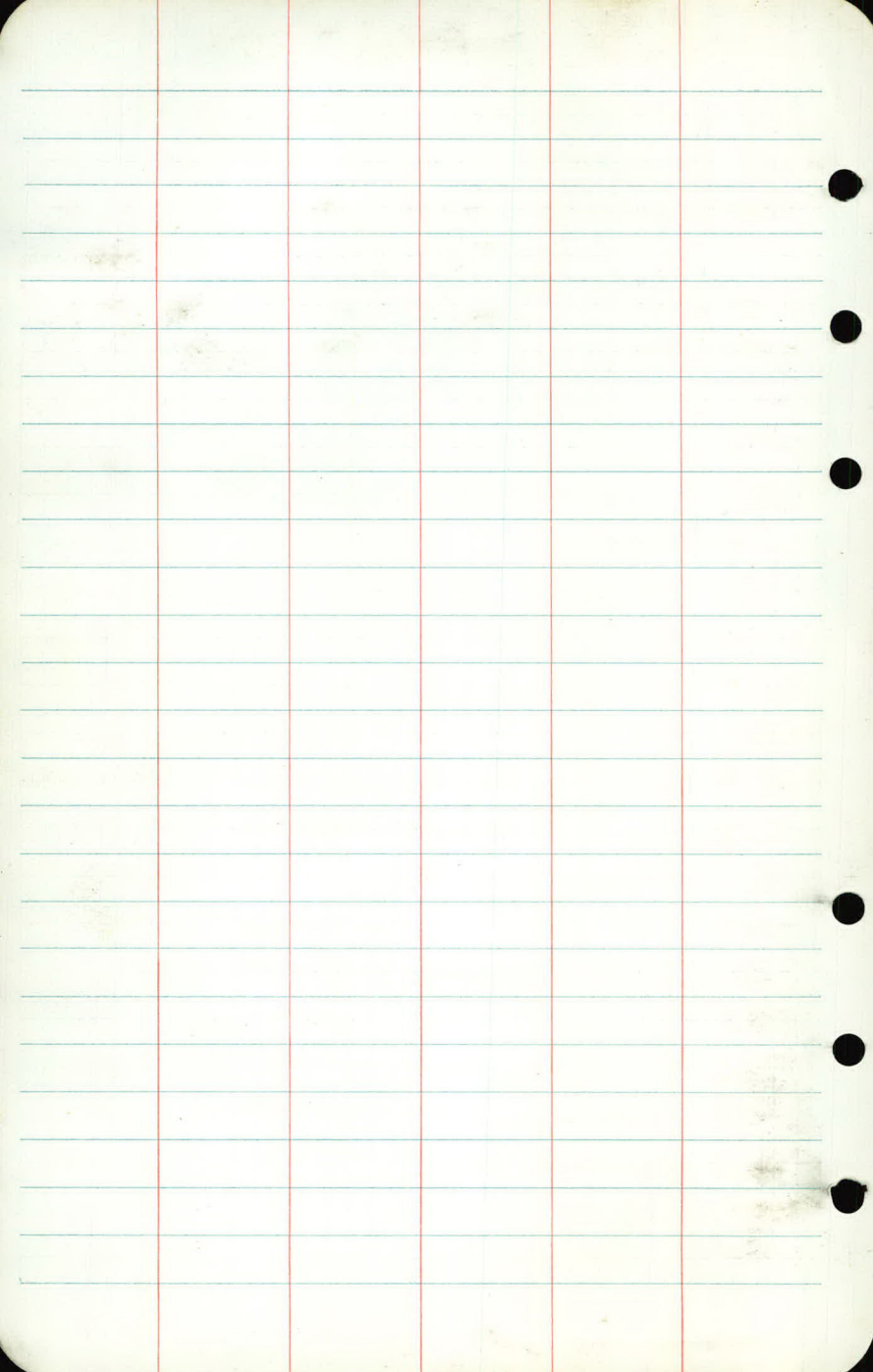
9" casting  
No Adj. Rings  
Concentric Cone  
W.G.V.



# Sight Distances 8-1-69 5-1

## NE Corner McKnight & "C"

|          |       |               |
|----------|-------|---------------|
| McKnight | C     | 80 - 51       |
|          |       | 75 - 53       |
| 200      | - 35' | 70 - 57       |
| 195      | - 35  | 65 - 60       |
| 190      | - 36  | 60 - 65       |
| 185      | - 37  | 55 - 71       |
| 180      | - 37  | 50 - 84       |
| 175      | - 38  | 45 - 103      |
| 170      | - 38  | 40 - 140      |
| 165      | - 38  | 35 - 257      |
| 160      | - 39  | 30 - $\infty$ |
| 155      | - 39  |               |
| 150      | - 39  |               |
| 145      | - 40  |               |
| 140      | - 40  |               |
| 135      | - 40  |               |
| 130      | - 41  |               |
| 125      | - 42  |               |
| 120      | - 42  |               |
| 115      | - 43  |               |
| 110      | - 44  |               |
| 100      | - 45  |               |
| 95       | - 46  |               |
| 90       | - 48  |               |
| 85       | - 49  |               |

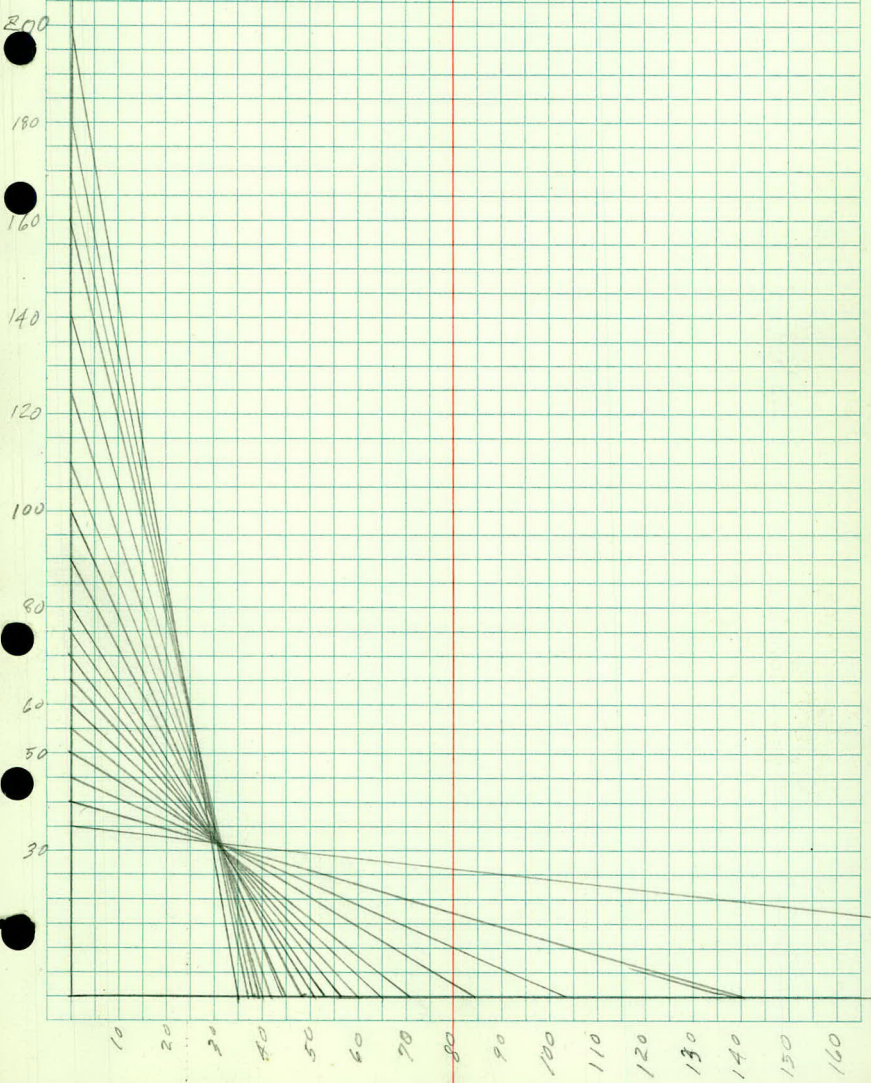


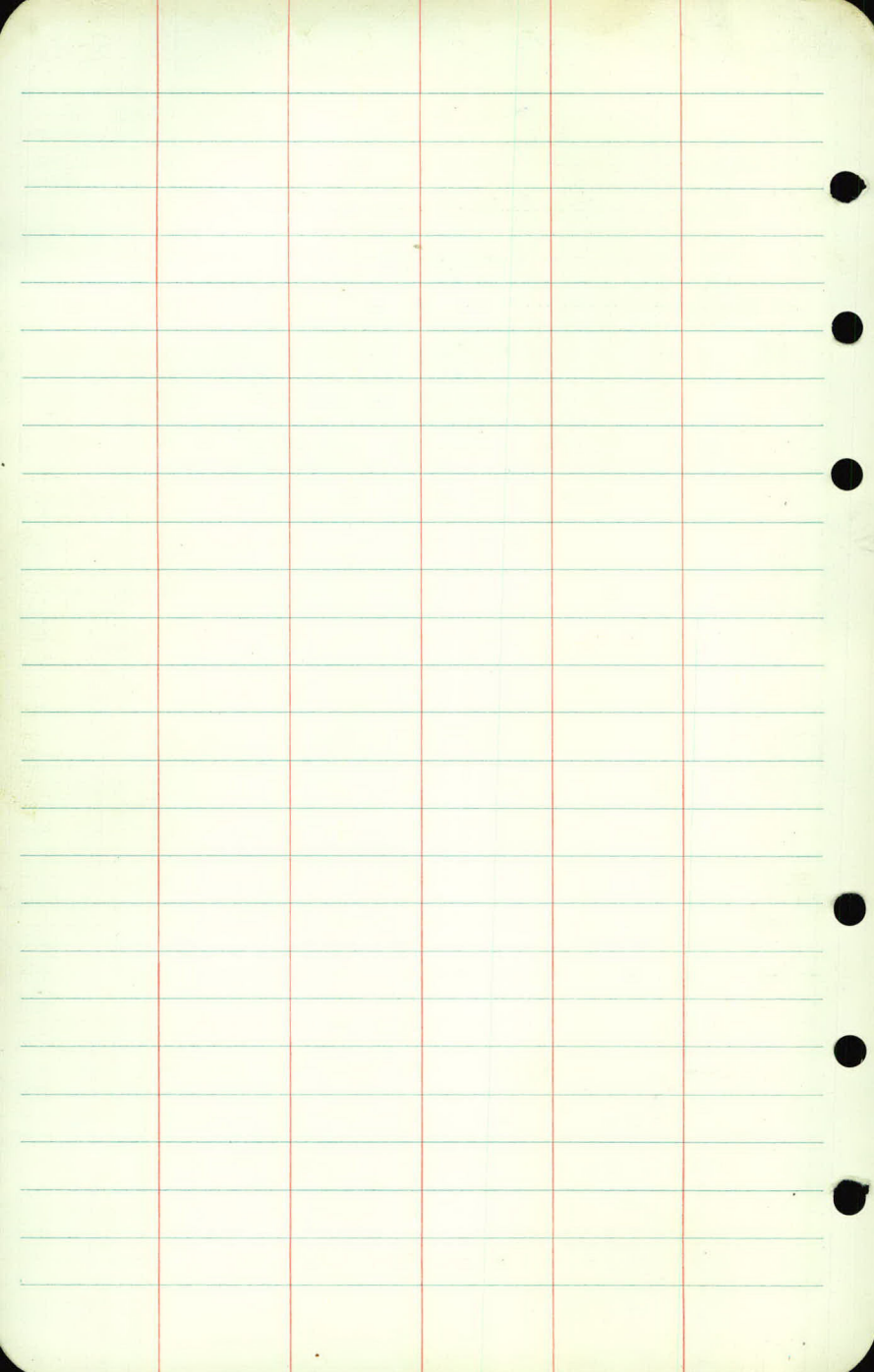


8-1-69

# Sight Distance Diagram S-2

NE Corner  
Mc Knight & Co. Rd. "C"





8-1-69

X-1

X-Sections

Sta +  $\pi$  - Elev.

BM 3.14 969.56

(966.42)

BM 3.13 966.43

0+00  $\pm$  "C" Top C.I. 4.84

✓

~~2295~~ 316  
2233 273  
~~2239~~

+18 Gutter Line

✓

C.B Lt 5.84 963.72

M4 4.39 65.17

+30

965.33

BM

2.73 966.83 (966.85)

3.25 966.31  
966.21 966.44



FX  
CM  
AS  
DW

August 1, 1969

17.

£

RT

X-2

Top Hyd by Ho #345 Co. Rd "C" #2295C

Top Hyd N.E. Corner 16<sup>th</sup> & McKnight

|      |      |      |      |      |       |      |      |      |
|------|------|------|------|------|-------|------|------|------|
| GA.6 | GA.6 | GA.7 | GA.8 | GA.8 | GA.10 | GA.9 | GA.8 | GA.8 |
| 5.0  | 5.0  | 4.9  | 4.8  | 4.8  | 4.6   | 4.7  | 4.8  | 4.8  |
| 70   | 63   | 39   | 16   |      | 23    | 48   | 70   | 89   |

|      |      |      |        |        |  |        |      |
|------|------|------|--------|--------|--|--------|------|
| GA.5 | GA.5 | GA.5 | GA.4.2 | GA.5.2 |  | GA.5.0 | GA.7 |
| 5.1  | 5.1  | 5.1  | 5.14   | 5.04   |  | 5.06   | 4.9  |
| 94   | 119  | 140  | 170    | 210    |  | 140    | 121  |

|      |      |      |      |        |      |        |      |      |
|------|------|------|------|--------|------|--------|------|------|
| GA.2 | GA.3 | GA.4 | GA.6 | GA.7.2 | GA.7 | GA.6.7 | GA.5 | GA.4 |
| 5.4  | 5.3  | 5.2  | 5.0  | 4.84   | 4.9  | 4.89   | 5.1  | 5.2  |
| 58   | 36   | 23   | 19   | MH     | 19   | 31     | 50   | 70   |
|      |      |      |      |        |      | MH     |      |      |

|      |      |      |      |  |      |      |      |
|------|------|------|------|--|------|------|------|
| GA.2 | GA.4 | GA.3 | GA.3 |  | GA.2 | GA.4 | GA.4 |
| 5.4  | 5.2  | 5.3  | 5.3  |  | 5.4  | 5.2  | 5.2  |
| 70   | 92   | 113  | 140  |  | 140  | 119  | 95   |
|      | Ent  |      |      |  |      |      |      |

|      |       |      |      |       |      |      |        |         |
|------|-------|------|------|-------|------|------|--------|---------|
| GA.6 | GA.10 | GA.2 | GA.9 | GA.10 | GA.9 | GA.5 | GA.2.4 | GA.5.32 |
| 4.0  | 4.6   | 5.4  | 4.7  | 4.6   | 4.7  | 5.1  | 4.32   | 4.24    |
| 34   | 27    | 22   | 10   |       | 10   | 21   | 33     | 45      |
| 433  |       |      |      |       |      |      | Walk   |         |

|      |      |      |  |        |        |        |        |
|------|------|------|--|--------|--------|--------|--------|
| GA.7 | GA.6 | GA.7 |  | GA.0.9 | GA.1.5 | GA.2.9 | GA.2.0 |
| 3.9  | 4.0  | 3.9  |  | 4.47   | 4.41   | 4.27   | 4.28   |
| 46   | 56   | 70   |  | 140    | 127    | 97     | 70     |

Top Hyd by Ho #2239 Co. Rd "C" Walk

Top Hyd N.E. Corner McKnight & 15<sup>th</sup>

Sta +  $\pi$  - Elev

BM 5.32 972.17

966.85

+ 31

+ 40

+ 60

+ 75

Lt.

E

Aug. 4, 1969

RT.

X-3

Top Hyp. by House # 2239 E. Co. Rd. "C"

|      |      |      |      |      |        |      |      |      |      |      |      |      |      |
|------|------|------|------|------|--------|------|------|------|------|------|------|------|------|
| 65.5 | 65.7 | 65.8 | 64.8 | 64.2 | GUTTER | 64.9 | 65.4 | 64.9 | 64.5 | 64.8 | 70.0 | 69.9 | 69.0 |
| 6.7  | 6.5  | 6.4  | 7.4  | 8.0  | 7.3    | 7.2  | 7.3  | 7.7  | 7.4  | 2.2  | 2.3  | 2.3  |      |
| 70   | 55   | 38   | 24   | 22   | 11     |      | 11   | 20   | 23   | 33   | 44   | 56   |      |

|      |      |      |      |      |      |
|------|------|------|------|------|------|
| 65.8 | 67.0 | 69.5 | 70.1 | 70.2 | 70.1 |
| 64   | 5.2  | 2.7  | 2.1  | 2.0  | 2.1  |
| 140  | 117  | 109  | 95   | 83   | 70   |

|      |      |      |      |      |      |      |       |      |      |      |      |
|------|------|------|------|------|------|------|-------|------|------|------|------|
| 65.9 | 65.7 | 66.1 | 65.1 | 64.8 | 65.2 | 65.3 | 65.14 | 64.8 | 65.8 | 70.5 | 71.2 |
| 6.3  | 6.5  | 6.1  | 7.1  | 7.4  | 7.0  | 6.9  | 7.03  | 7.4  | 6.4  | 1.7  | 1.0  |
| 70   | 55   | 37   | 23   | 19   | 9    |      | 10    | 20   | 23   | 32   | 51   |

|      |      |      |
|------|------|------|
| 70.9 | 71.0 | 71.2 |
| 1.3  | 1.2  | 1.0  |
| 91   | 87   | 70   |

|      |      |      |      |      |      |      |      |      |        |      |      |      |      |
|------|------|------|------|------|------|------|------|------|--------|------|------|------|------|
| 66.7 | 66.8 | 66.6 | 65.6 | 65.1 | 65.4 | 65.6 | 65.5 | 65.1 | GUTTER | 66.6 | 71.2 | 71.7 | 72.0 |
| 5.5  | 5.4  | 5.6  | 6.6  | 7.1  | 6.8  | 6.6  | 6.7  | 7.1  | 5.6    | 1.0  | 0.5  | 0.2  |      |
| 62   | 48   | 33   | 29   | 18   | 10   |      | 8    | 19   | 22     | 32   | 46   | 61   |      |

|      |      |      |        |      |      |      |        |      |      |      |       |
|------|------|------|--------|------|------|------|--------|------|------|------|-------|
| 67.0 | 67.0 | 65.9 | 65.6   | 65.3 | 65.6 | 65.7 | 65.6   | 65.3 | 66.5 | 71.3 | 71.9  |
|      |      |      | GUTTER |      |      |      | GUTTER |      |      |      | HOUSE |
| 52   | 52   | 6.3  | 6.6    | 6.9  | 6.6  | 6.5  | 6.6    | 6.9  | 5.7  | 0.9  | 0.3   |
| 43   | 34   | 29   | 20     | 18   | 9    |      | 8      | 19   | 22   | 32   | 47    |

STA

+

$\pi$

-

ELEV.

1 + 0.0

T.P

6.1

6.49 965.68



Aug. 4, 1969

Lt.

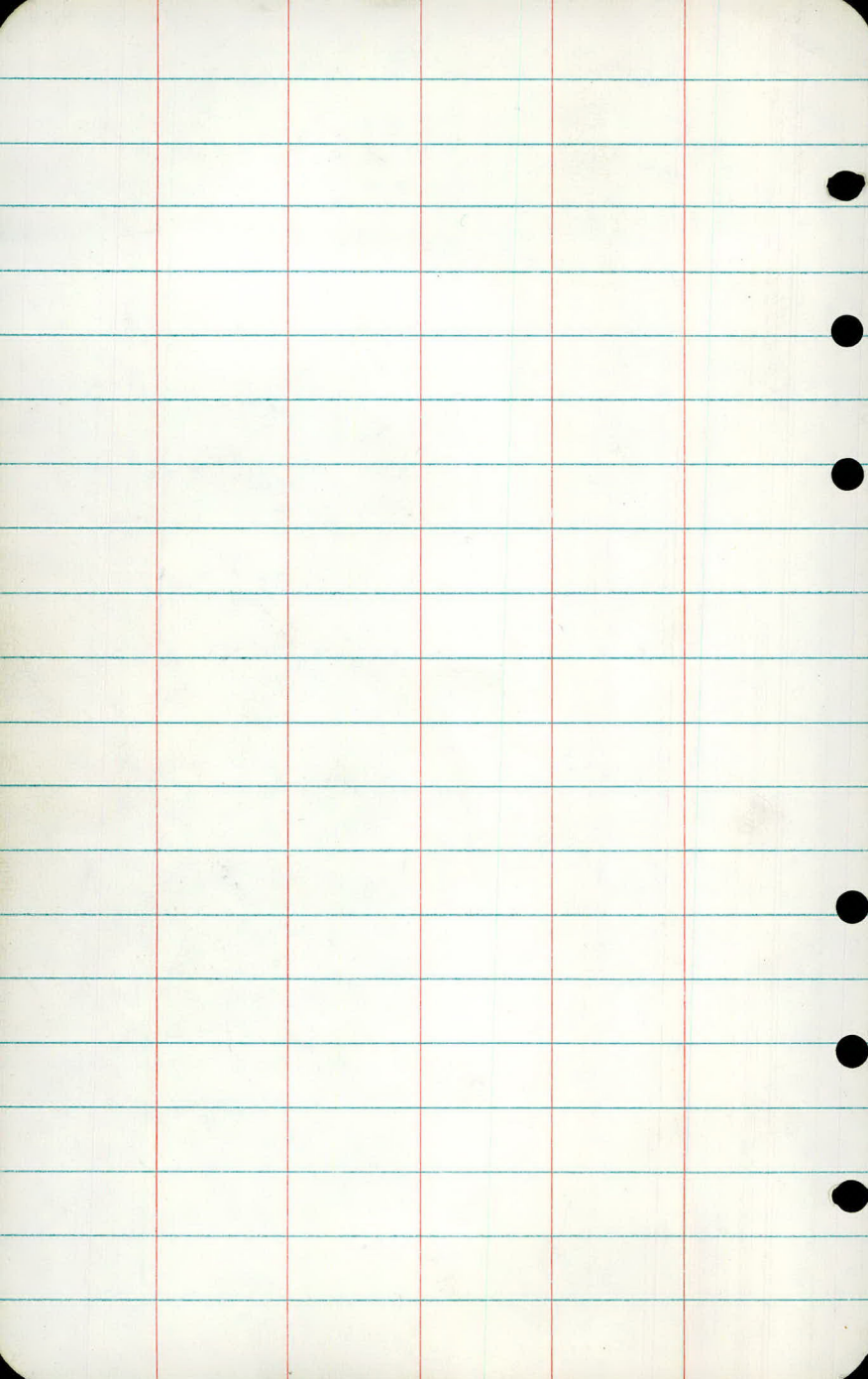
R

RT

X-4

|      |      |      |      |      |        |      |      |      |      |      |       |
|------|------|------|------|------|--------|------|------|------|------|------|-------|
| 67.0 | 67.0 | 66.2 | 65.9 | 65.6 | 65.8   | 65.9 | 65.8 | 65.6 | 66.2 | 71.2 | 71.8  |
| 52   | 5.2  | 6.0  | 6.3  | 6.6  | 6.4    | 6.3  | 6.4  | 6.6  | 6.0  | 1.0  | 0.4   |
| 47   | 35   | 29   | 21   | 17   | 8      |      | 9    | 18   | 21   | 32   | 46    |
|      |      |      |      |      | GUTTER |      |      |      |      |      | HOUSE |

EDGE CONCRETE APRON RT. STA. 1+16



KP  
LPD  
ML  
CM

3 DEC. 1969  
cloudy  
25°

1

MC KNIGHT RD.

Co. Rd C to Co. Rd. D

TOPOGRAPHY

|     |            |    |                   |    |         |
|-----|------------|----|-------------------|----|---------|
| +50 | LT         | BT | BT                | RT | +38 FE  |
|     |            | 18 | 15                |    | 34-49   |
| +46 | 3-5" APPLE |    | 720, NW Cor Ho    |    | +20 FE  |
|     | 77         |    |                   |    | 49      |
| +46 | 12" APPLE  |    | +20 v E CONC, ENT |    | +30 WAH |
|     | 48         |    |                   |    | 34-49   |
|     |            |    | +07 BLOCK WALL    |    |         |
|     |            |    | 34-49             |    |         |

|      |           |    |               |
|------|-----------|----|---------------|
| 1+00 |           | BT | BT            |
|      |           | 18 | 18            |
| +97  | NE Cor Ho |    |               |
|      | 43        |    |               |
| +73  | SE Cor Ho |    |               |
|      | 43        |    |               |
|      |           |    | +61 SW Cor Ho |
|      |           |    | 51            |

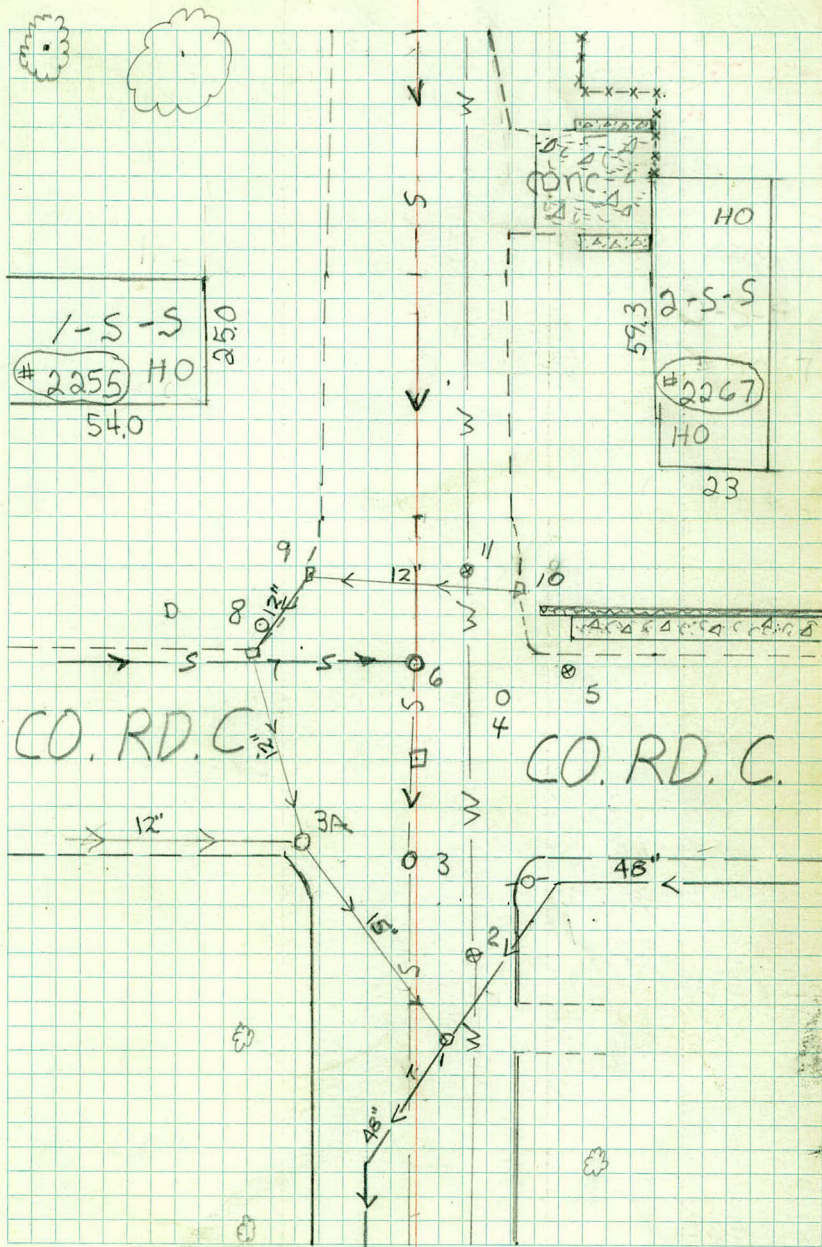
|        |        |        |                      |
|--------|--------|--------|----------------------|
| +50    |        | BT     | BT +39 MH            |
|        |        | 19     | 20                   |
|        |        |        | "                    |
|        |        |        | +25 SW Cor 5' SW     |
|        |        |        | 33                   |
| +28 MH | +37 CB | +20 MH | +35 CB               |
| 32     | 22     |        | 22                   |
|        |        |        | +30 BEGIN STONE WALL |
| +22 CB |        | +18 MH |                      |
| 33     |        | 31     |                      |
|        |        | +14 MH |                      |
|        |        | 19     |                      |

|              |         |      |        |        |
|--------------|---------|------|--------|--------|
| 0+00         |         | MONT |        |        |
|              |         | 2    |        |        |
| -20 MH       |         |      | -20 ER | -25 PP |
|              |         |      | 27     | 24     |
| -21 END CURB | 0-16 MH |      | -30 BR |        |
| 26           | 24      |      | 22     |        |
|              |         |      | -40 MH |        |
|              |         |      | "      |        |

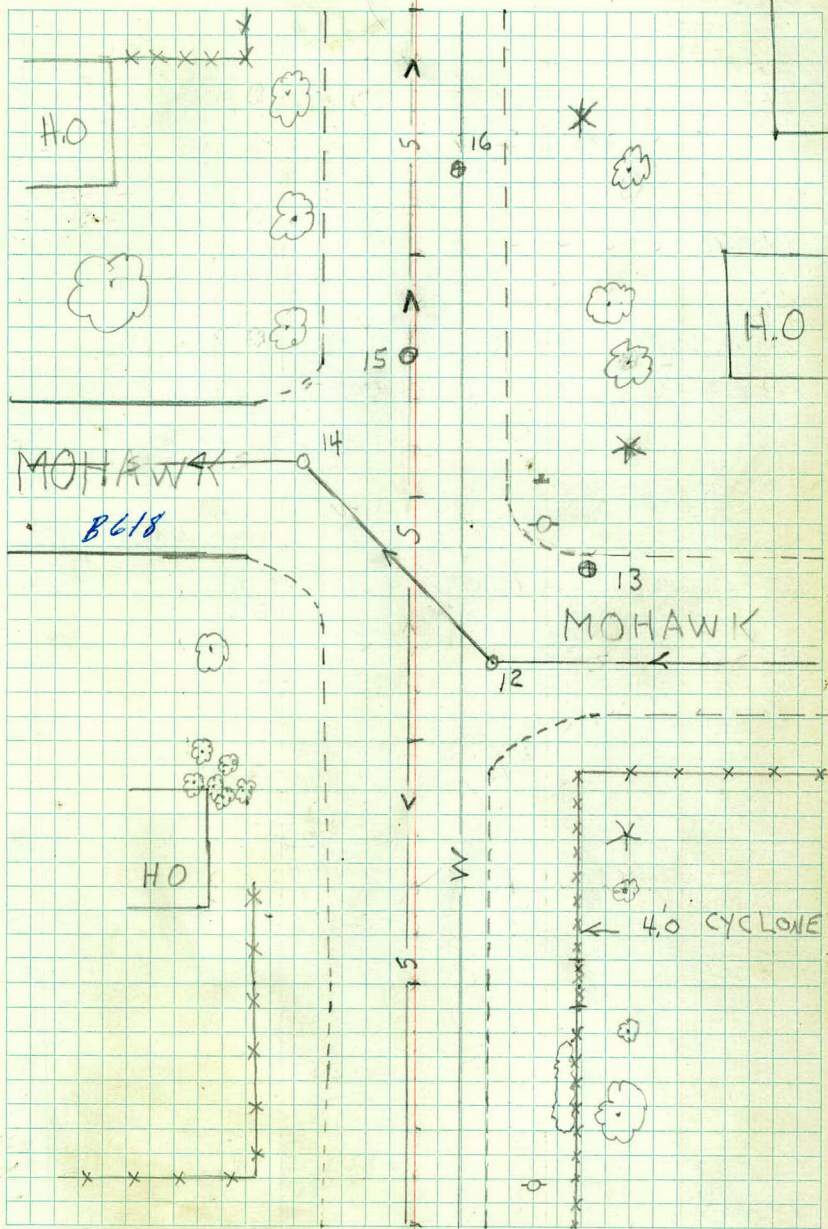
|             |  |        |              |
|-------------|--|--------|--------------|
| 0-50        |  | curb   | curb         |
|             |  | 22     | 22           |
| -58 12" MAP |  |        | -60 10' ENT  |
|             |  |        |              |
| -97 12" MAP |  | -58 MH |              |
| 35          |  | 6      |              |
|             |  |        | -84 2" MAPLE |
|             |  |        | 38           |

|       |      |    |    |      |
|-------|------|----|----|------|
| 0-100 | curb | RD | RD | curb |
|       | 22   | 22 | 22 | 22   |





| 4+00                  | LT                                   | FE                    | BT       | £        | BT                   | RT                                     |
|-----------------------|--------------------------------------|-----------------------|----------|----------|----------------------|----------------------------------------|
| NE COR HO<br>+90 63   | COR FE<br>34-63                      | 34                    | 18       |          | 18                   |                                        |
| +84 6                 | ASH<br>+26                           |                       |          |          |                      | 8" Pine<br>+79 35                      |
| +64 SE COR HO<br>63   | LINDEN<br>+58 5" MAPLE<br>34<br>25   |                       |          |          | 176 65               | +64 1" MAPLE<br>45<br>+67 6" ASH<br>45 |
| +50                   |                                      |                       |          |          | +67 MH<br>9          |                                        |
| +35 5" ASH<br>26      | 18" BIRCH<br>+44 63 P.O.R.<br>+24 22 |                       |          |          | +52 NW COR HO<br>65  | +25 SW COR HO<br>66                    |
| +35 5" EL<br>34       | +27 ER<br>18                         |                       |          |          | +30 MH<br>C          | +49 6" Birch<br>45                     |
| +08 MH<br>23          | +19 BR<br>33                         | +19 Con Curb<br>35-W  |          |          | +41 1" MAPLE<br>40   | +11 10" PINE<br>45                     |
| 3+00                  |                                      | +29 MH<br>35-W        |          |          | +29 Trip Birch<br>44 | +9 COR<br>24                           |
|                       |                                      |                       |          |          | +03 HYD<br>26        | +00 ER<br>19                           |
| +87 Conc Curb<br>35-W | +87 ER<br>35                         | 18-18<br>BL CONC CURB |          |          | +66 MH<br>16         | +87 BR<br>36                           |
| +64 3" MAPLE<br>43    | +87 35                               |                       |          |          | +56 ER<br>38         | +85 MH<br>36                           |
| +50                   | +45 BUSH<br>39                       |                       |          |          | +50 P.O.R.<br>24     |                                        |
| +40 BUSH<br>36        | +41 NE COR HO<br>44                  |                       |          |          | +43 BR<br>16         | +43 Fence Cor<br>34                    |
| +39 BUSH<br>40        | +42 BUSH<br>41                       |                       |          |          | +19 1" MAPLE<br>44   | +32 PINE BUSH<br>44                    |
| +42 BUSH<br>40        | +16 SE COR HO<br>43                  |                       |          |          |                      |                                        |
| +21 FE<br>33          | +47 BUSH<br>43                       |                       |          |          |                      |                                        |
| 2+00                  | FE<br>33                             | BT<br>17              | BT<br>16 | FE<br>34 | £ 10' GATE<br>34     |                                        |
| +61 COR WW FE<br>33   |                                      |                       |          |          | +86 E BUSH<br>34     | +90 1" MAPLE<br>44                     |
| 1+50                  |                                      |                       |          |          | +71 BL BUSH<br>34    | +73 APRIL<br>44                        |
|                       |                                      |                       |          |          | +59 AP<br>25         |                                        |





~~+50~~ ~~+47 2P~~ ~~41~~ ~~SW COR HO~~ BT BT  
~~+38~~ ~~14 MAPLE~~ ~~+46~~ ~~68~~  
~~27~~ +30 ~~ENT~~  
+23 ~~LITE~~ ~~52 55-64~~ ~~23~~ ~~3'SW~~  
~~21~~ ~~+23 BUSH~~ ~~34-60~~ ~~52-79~~ +11 BUSH +30 ~~66 W FESALDA~~ ~~37-64, 36~~  
+22 ~~ME COR HO~~ ~~69~~  
6+00 BT BT  
+84 4" Ash +77 ~~SE COR HO~~ 17 18  
82 ~~5~~ 69  
25 +75 2" MAPLE  
+64 ~~BT~~ ~~37-61~~ +67 ~~COARSE~~ 64  
~~NE COR HO~~ ~~BT-FE~~  
+59 63-28-64 +52 ~~ENT BIT~~  
+50  
+45 ~~1" P~~ ~~52~~ +46 ~~NW COR HO~~ ~~64~~  
+21 ~~66 P BUSH~~ ~~54~~ +38 ~~EP BUSH~~ ~~59~~  
~~34~~ ~~14~~ ~~10" MAPLE~~ +11 ~~50~~ ~~2" APPLE~~  
+07 ~~SE COR HO~~ ~~63~~ +05 ~~SW COR HO~~ ~~64~~ +08 ~~8" Birch~~ ~~51~~  
5+00 BT BT  
+89 ~~EP BUSH~~ ~~70~~ +94 ~~NE COR HO~~ ~~72~~ +93 ~~ENT~~  
+62 ~~66 BUSH~~ ~~70~~ +85 ~~W COR HO~~ ~~63~~ +85 ~~E HEDGE~~ ~~34~~  
+63 ~~NE COR CORNER~~ ~~64-72~~ +71 ~~2" MAPLE~~ ~~43~~ +83 ~~2" P~~ ~~47~~  
+53 ~~16 BIT ENT~~  
+50  
+44 ~~SE COR HO~~ ~~64~~ +35 ~~14-25~~ +37 ~~1" P~~ ~~38~~ +50 ~~8" ELM~~ ~~41~~  
+34 ~~COR NW FE~~ ~~34-40~~ +26 8" Poplar (8) +41 ~~SW COR HO~~ ~~63~~ +48 ~~6" MAPLE~~ ~~42~~  
~~34-40~~ ~~45-83~~ +33 HEDGE  
+11 ~~ENT~~  
4+00 BT BT  
FE 34 18 18  
+15 ~~NW COR HO~~ ~~64~~ +21 ~~ENT~~  
+07 ~~4" ELM~~ ~~46~~ +13 ~~1" P~~ ~~53~~



H0

H0

2695

2694

H0

H0

2687

2688

H0

H0

2682

2678

H0

H0

9+00

BT & BT  
18 17

+96 6" ASH  
26

+89 MH

+70 & ENT

+77 & ENT

+59 6" ELM  
27 ✓

+50

+45 Triple Birch  
49 ✓

+47 PP

+31 & ENT 27 ✓

+25 BUSH  
37 ✓

+15 & ENT

8+00

BT BT  
16 18

+92 1" MAPLE  
37 ✓

+81 3 Birch  
48 ✓

+59 & ENT

+52 & ENT

+50

+40 Pine +45 LITE  
36 ✓ +27 1" MAPLE  
26 ✓

+34 6" ELM  
26 ✓

+15 Triple Birch  
47 ✓  
+03 PP  
28 ✓

+09 Triple Catalpa  
51 ✓  
+05 6" CATALPA  
44 ✓

7+00

BT BT  
17 17

SW COR HO

+93 & ENT +81 MH  
17

+84 6" E ENT +93 4" D  
22

+74 6" 79 1" Pine  
41 ✓

+76 6" 73 8" Pine  
38

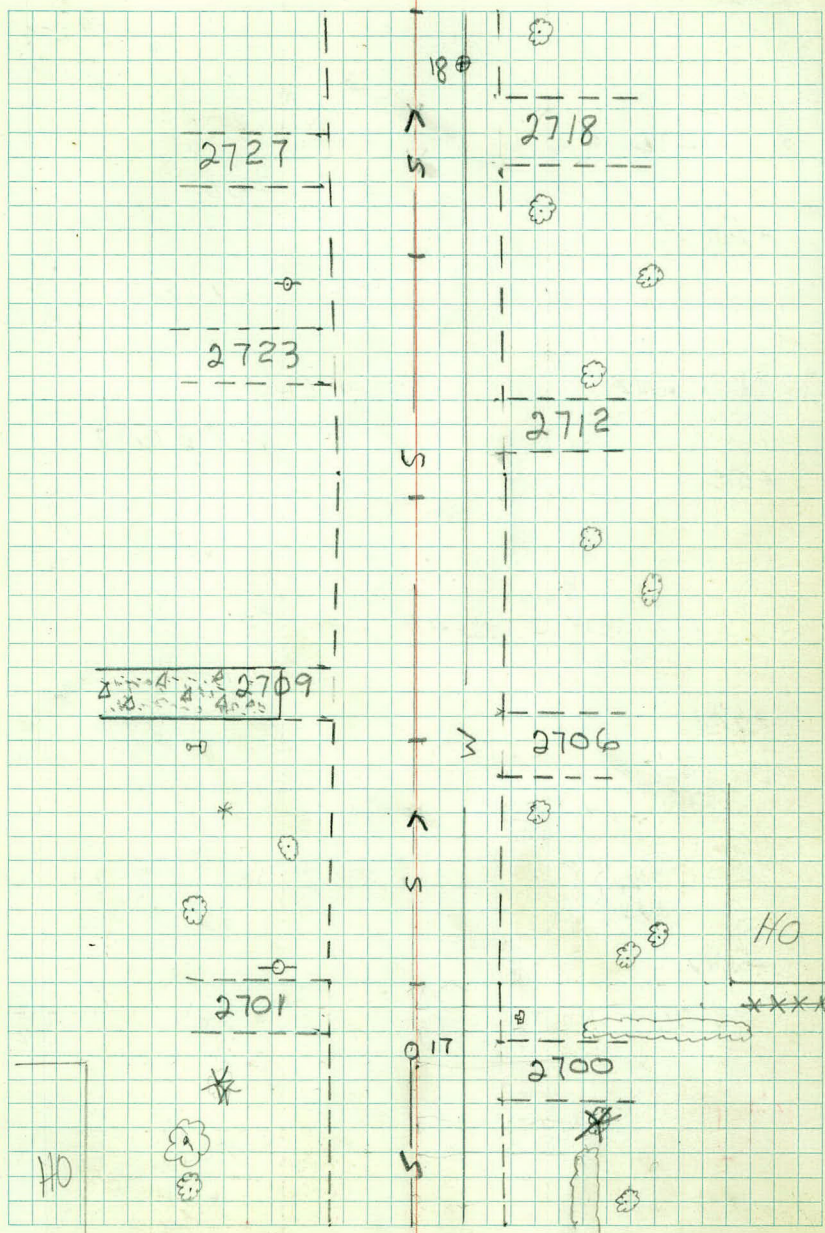
+78 4" 57 1" Birch  
47 ✓

+67 6" 58 5" ELM  
44

+66 4" 9" MAPLE  
41 ✓

+91 8" MEDC 44  
35-70 +94 6" 9

6+50





+50

+39  $\pm$  ENT (conc.)

+07 1" MAPLE  
43

11+00

BT  
18

BT

17

+93  $\pm$  ENT (BT)

+80 HYD

23

+85 1" PINE  
47

+80 MA

+72  $\pm$  ENT (DIT)

+50

+54  $\pm$  ENT

+53 1" MAPLE

26 + 35 5" Birch  
46

+19 BUSH  
38

+05 PP  
28

+24 1" ELM  
44

+18 FE  
33-100

+15 PINE  
55

+10  $\pm$  ENT

10+00

+97 PINE  
47

BT  
18

BT  
17

+92 3" ASH  
27

+56 LITE  
43

+50

+45  $\pm$  ENT

+42  $\pm$  ENT

+35 FE  
47-100

+30 4" ELM  
26

9+00

BT  
18

BT  
17

+11 6" ASH  
43



2739

2735

2731

2742

2736

2730

2724

XXXXXXXXXX

XXXXXXXXXXXXXXXXXXXXXXXXXXXX

14+00

17 17  
BT BT

+97  $\frac{1}{2}$  ENT (BT)

+85 LITE  
35

+50

+17 EE  
34-100

13+00

BT BT  
17 17

+94 1" MAPE  
41

+78 Pine

49+58  $\frac{1}{2}$  ENT

+71 Pine  
39 ✓

+50

+35 Fence  
34-100

+42 1" APPLE  
40

+34 PINE  
41 ✓

+52 3" ASH  
26

+10  $\frac{1}{2}$  ENT (conc)

+22  $\frac{1}{2}$  ENT (Dirt)

12+00

BT BT  
17 15

+96 PINE  
40 ✓

+89 4" ASH  
26 ✓

+69 PINE

+56  $\frac{1}{2}$  ENT (Dirt)

11+50

$$\overline{2765}$$


$$\wedge$$

$$\wedge$$

$$\wedge$$

$$x \times x \times x \times x \times x \times x \times x \times x \times x$$


$$*$$

$$\wedge$$

$$*$$

$$\overline{2757}$$

$$\wedge$$


$$x \times x \times x \times x \times x$$


$$*$$

$$\wedge$$

$$\overline{2754}$$

$$\overline{2757}$$

$$\wedge$$


$$*$$

$$*$$

$$\overline{2748}$$

+50

BT BT

16 +00

BT BT  
18 17

+25 PP  
26

+78 PP  
26

+78 2" APPLE  
35

+96 1" MAPLE  
25

+52 1" MAPLE  
26

+50

+19 3" ASH  
41

+09 ER  
19

+08 MH  
6

+14 CB  
17

15 +00

+88 MH

+88 CB  
35

+88 BR  
35

BT  
17

ER  
17

+71 MH  
1

+78 MH  
36

+64 MH  
34

+86 BR  
34

+85 MH  
36

+61 MH  
8

+60 ER  
35

+56 MH  
8

+52 ER  
37

+50

+51 PP  
29

+46 BR  
20

+47 CB  
19

+40 CB  
18

+34 BR  
17

+34 HYD  
21

14 +00

BT BT  
17 17





19+00

BT BT  
17 18

FP  
33

+50

+ 18 CB  
17

+ 16 CB  
17

18+00

BT BT  
17 18

+ 91 ER  
18

+ 80 BR  
30

+ 65 MH  
1

+ 55 MH  
10

+ 75 MH  
40

+ 51 ER  
34

+ 80 CB  
44

+50

+ 41 BR  
18

+ 43 PP  
26

+ 16 HYD  
24  
+ 06 MH  
8

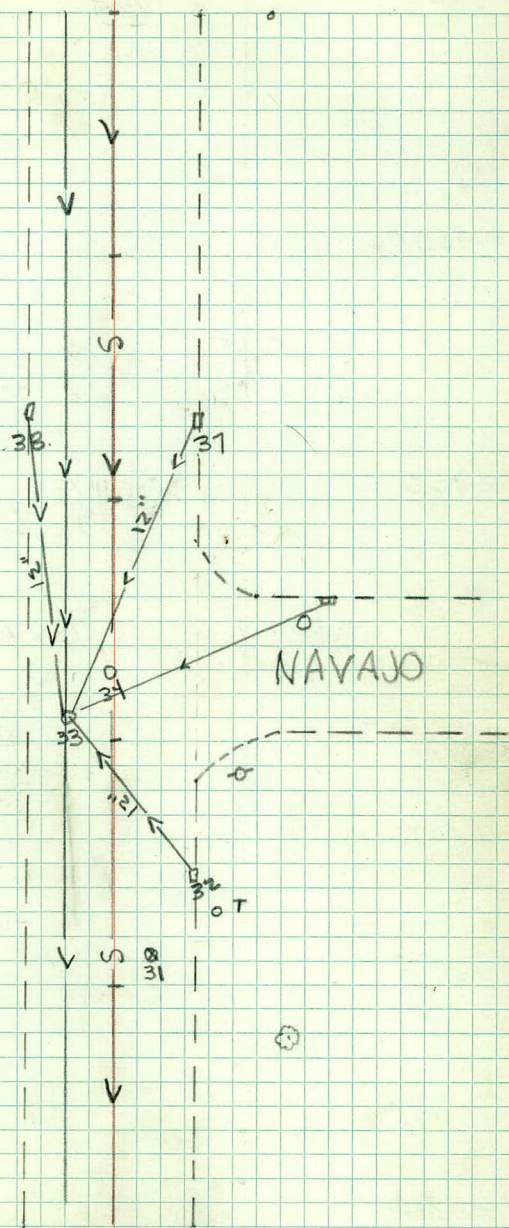
+ 22 CB  
16  
+ 16 WSO  
20

17+00

BT BT  
18 17

+ 87 3" MAPLE  
37

16+50



+50

BT BT

+39 TEL BOX  
33

+47 BUSH  
34

+082" ELM

37 +09 CB  
19

+09 CB  
18

+08 3" ASH  
26

21+00

BT BT  
16 16

+87 ER  
18

+77 PINE  
40

+76 BR  
26

+76 CB  
37

+60 MH  
1

+70 MH

39 +49 MH

+50

+49 MH  
10

+45 ER

+33 PP

17

+25 BR  
4

+31 FE  
26

+39 TW Birch  
38

+25 FE  
16

34

34-41

+21 CB  
19

+09 HVD  
26

20+00

ER  
16

BT BT  
16 16

MH  
11

+83 MH  
7

+87 Conc Curb +87 BR  
31-W 31

+78 2" ASH

27  
+64 FE

+55 Conc Curb +55 ER  
30-W 30

35

+50

+13 FE

+47 FE

33-100

35

+40 BR  
17

+13 PP  
25

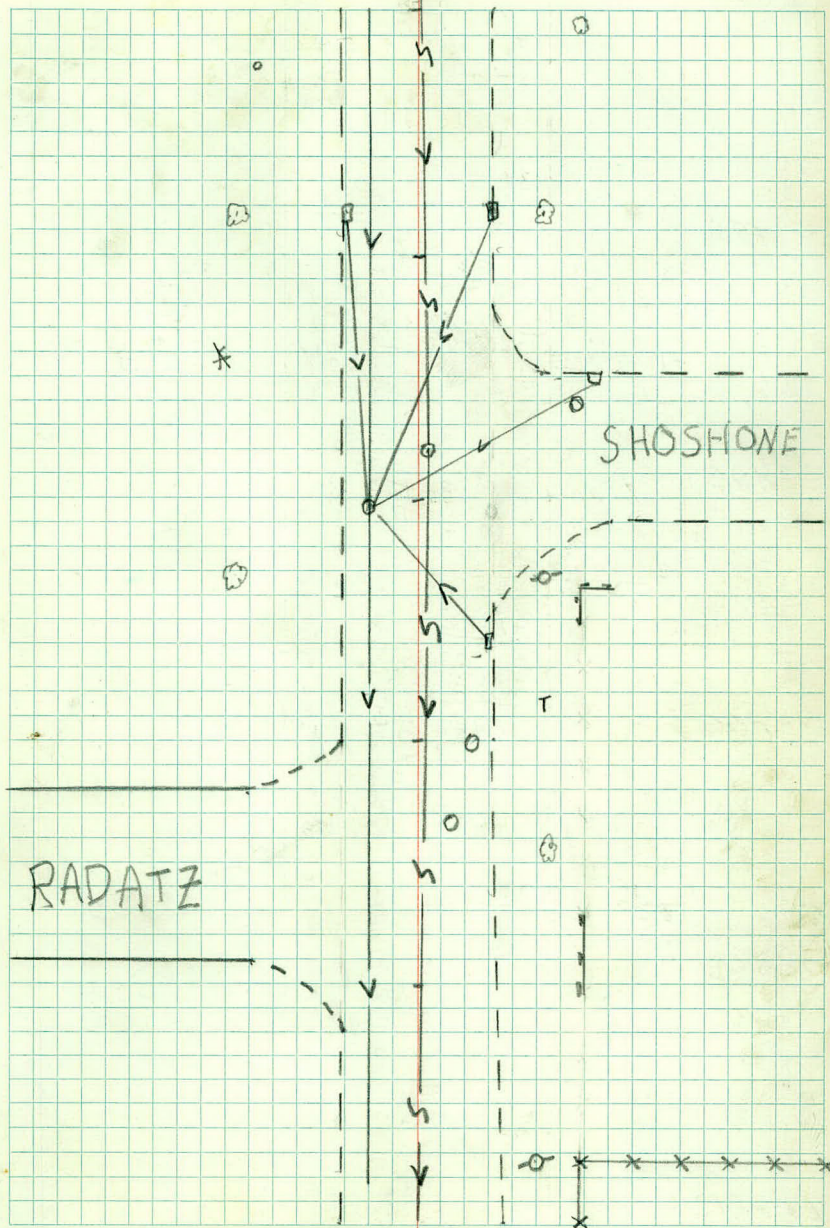
19+00

BT BT  
17 18



4 DEC 1969  
SUNNY  
30°

10.



24+00

BT BT  
17 17 +92 Bush  
35

+50

+39 HYD  
25

+52 4" ASH  
28

+46 HYD  
27

+36 3" PINE  
39

+26 ER  
18

+23 1" PINE  
22

+20 ARC LIGHT  
20

+19 CONC CURB  
29-W

+19 BR  
29

+49 MH  
1

+34 ENT  
1

+10 MH  
7

+22 1" PINE  
29

+17 1" PINE  
32

23+00

& MARKVIEW BT BT  
17

+EA CONC CURB  
28-W

+84 ER  
28

+79 BR  
17

+55 FP  
44

+71 4" ASH  
27

+53 & ENT

+50

+28 1" PINE  
38

22+00

400 ENT BT BT

+79 1" M  
40

+65 1" M  
39

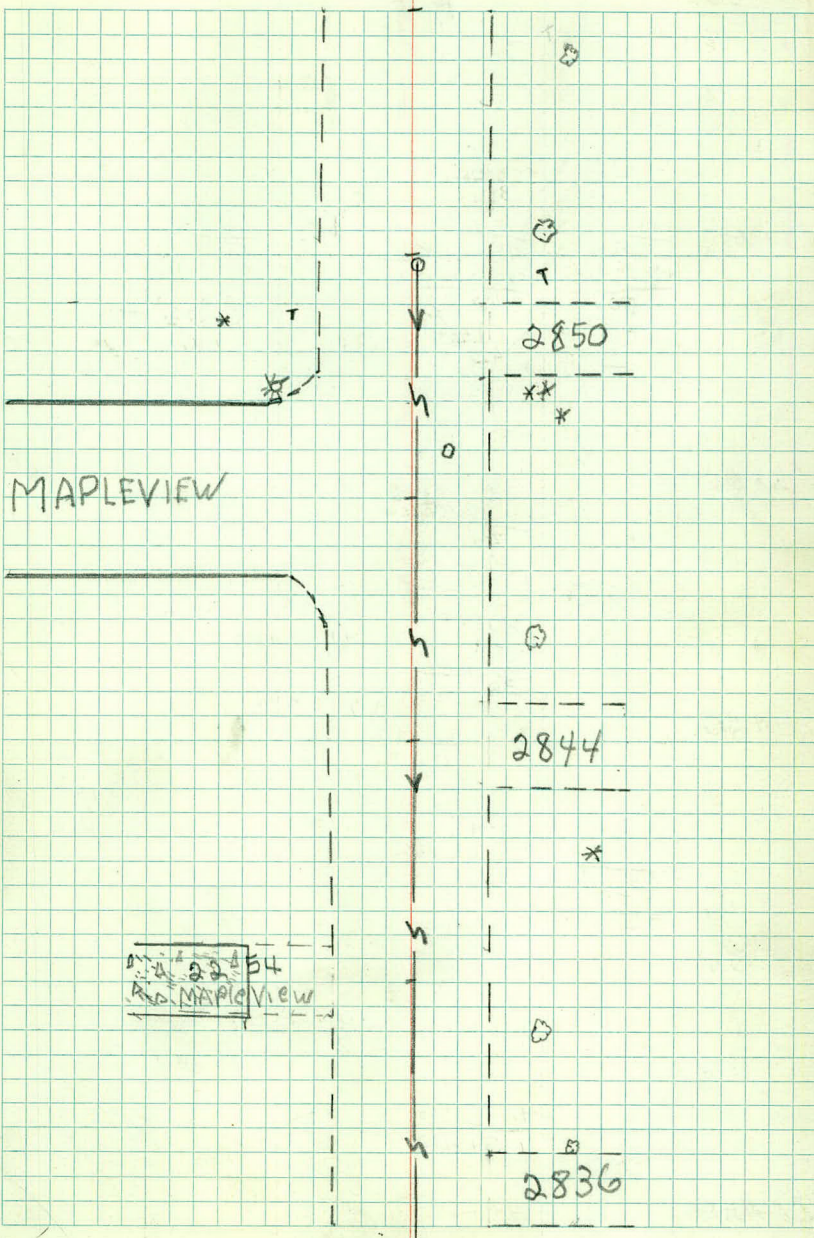
+53 1" M  
40

+90 6" ELM  
27

21+50

+160 Bush  
34

+54 ENT



MAPLEVIEW

2850

2844

2836

22454  
R.D. MAPLEVIEW



+50

$$\begin{array}{r} +49 \text{ CONCL CURB} \\ 31-10 \\ \hline +49 \text{ BR} \\ 31 \\ \hline +40 \text{ WGV} \\ 32 \end{array}$$

$$\begin{array}{r} +44 \text{ BR} \\ 35 \end{array}$$

$$\begin{array}{r} +22 \text{ MH} \\ 1 \end{array}$$

$$\begin{array}{r} +13 \text{ ER} \\ 35 \end{array}$$

$$\begin{array}{r} +12 \text{ MH} \\ 34 \end{array}$$

$$\begin{array}{r} +07 \text{ CONCL CURB} \\ 31-10 \\ \hline +07 \text{ ER} \\ 31 \end{array}$$

$$\begin{array}{r} +13 \text{ MH} \end{array}$$

$$\begin{array}{r} +100 \text{ PP} \\ 27 \end{array}$$

26+00

$$\begin{array}{r} +99 \text{ COR HEDGE} \\ 33 \\ \hline +99 \text{ BR} \\ 76 \end{array} \quad \text{BT BT}$$

$$\begin{array}{r} +90 \text{ 2" PINE} \\ 50 \\ \hline +90 \text{ 1" PINE} \\ 43 \end{array}$$

$$\begin{array}{r} +94 \text{ HYD} \\ 26 \end{array}$$

$$\begin{array}{r} +87 \text{ BR} \end{array}$$

$$\begin{array}{r} +80 \text{ 3" ASH} \\ 28 \end{array}$$

$$\begin{array}{r} +81 \text{ PINE} \\ 42 \end{array}$$

$$\begin{array}{r} +86 \text{ MH} \\ 11 \end{array}$$

$$\begin{array}{r} +71 \text{ 1" PINE} \\ 28 \end{array}$$

$$\begin{array}{r} +61 \text{ 1" PINE} \\ 29 \end{array}$$

+50

$$\begin{array}{r} +45 \text{ 1" MAPLE} \\ 40 \end{array}$$

$$\begin{array}{r} +52 \text{ 2" PINE} \\ 28 \end{array}$$

+24 & ENTR

$$\begin{array}{r} +05 \text{ 1" MAPLE} \\ 39 \end{array}$$

$$\begin{array}{r} +03 \text{ 2" PINE} \\ 36 \end{array}$$

25+00

$$\begin{array}{r} \text{BT} \\ 17 \end{array} \quad \begin{array}{r} \text{BT} \\ 16 \end{array}$$

+92 & ENTR

$$\begin{array}{r} +65 \text{ TC Box} \\ 49 \end{array}$$

$$\begin{array}{r} +59 \text{ HEDGE} \\ 33-100 \end{array}$$

$$\begin{array}{r} +62 \text{ HEDGE} \\ 33 \end{array}$$

$$\begin{array}{r} +59 \text{ PP} \\ 32 \end{array}$$

$$\begin{array}{r} +59 \text{ COR FEN} \\ 33-100 \end{array}$$

+50

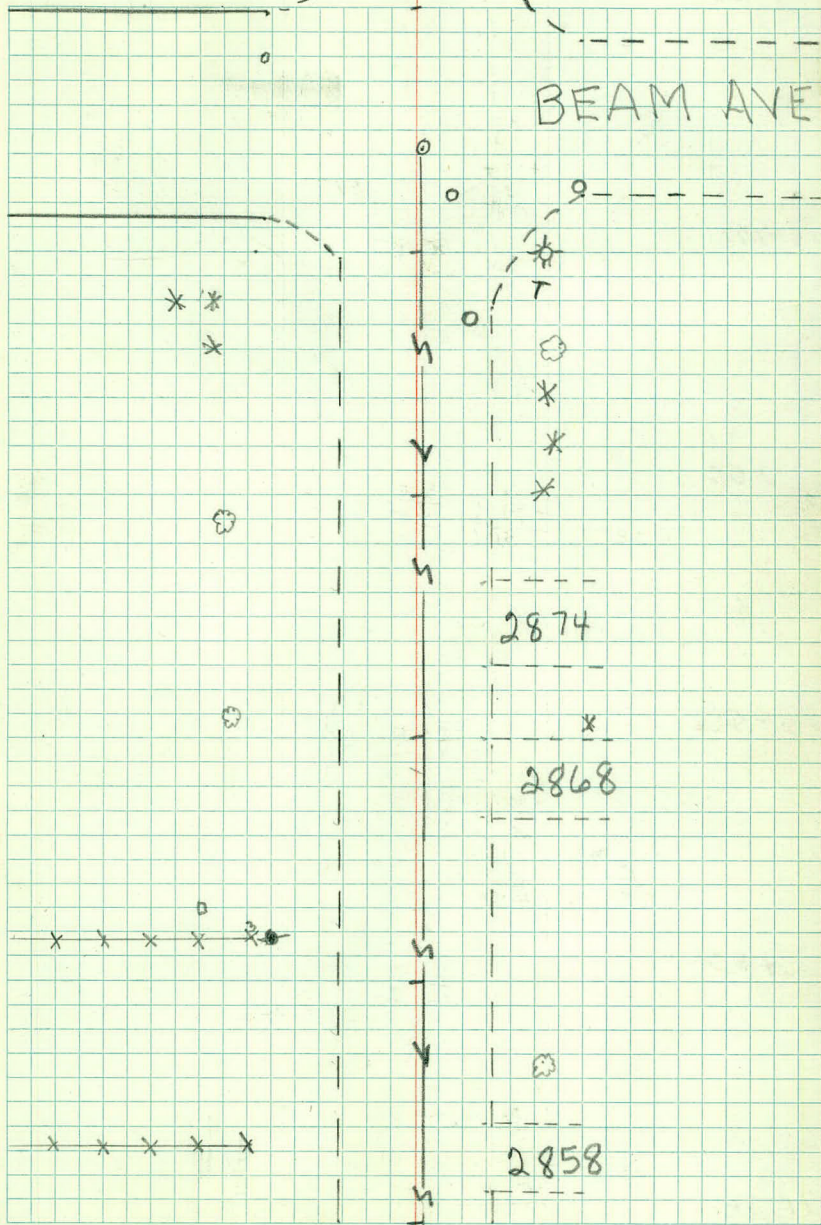
$$\begin{array}{r} +32 \text{ 4" ASH} \\ 27 \end{array}$$

$$\begin{array}{r} +16 \text{ COR FENCE} \\ 34-100 \end{array} \quad +13 \text{ & ENTR}$$

24+00



BEAM AVE



2874

2868

2858

29+00

BT BT  
12 12

+50

BT BT  
12 12

28+00

+95 TC Box  
38

+93 PP  
31

BT BT  
12 12

+50

+43 PINE  
46

+28 BUSH  
37

+07 & ENTR

27+00

BT BT  
12 12

+93 BUSH  
37

+62 ER  
12

+56 MH  
19

+62 ER  
13

26+50

□ - 0

\*

☉

2887

☉

b

+50

BT BT  
12 12

T36 & ENTR

+20 TCBOY

37

+17 TP  
30

+17 TP  
38

31+00

BT BT  
12 12

+69 SIGW  
36-48

+50

BT BT  
12 12

30+00

BT BT  
12 12

+88 HYD  
26

+85 ARC WISBY  
30

+72 CONC CURB  
33-W

+85 ER  
22

+72 BR  
33

+50

+40 ER  
35

BT  
12

+27 BR  
23

+40 CONC CURB  
35-W

29+00



2929

□ ⊙

⊙

—

⊙

MAPLE LA.

34+00

BT BT  
12 12

+72 TP  
29

+50

BT BT  
12 12

33+00

BT BT  
12 12

+50

BT BT  
12 12

+10 & EMTR

32+00

BT BT  
12 12

+78 TP  
31

31+50



2935



+50

BT BT  
12 12

36+00

BT BT  
12 12

+85 ENTR

+60 TP  
29

+50

BT BT  
12 12

+09 ENTR

35+00

BT BT  
12 12

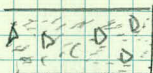
+50

BT BT  
12 12

+20 HYD  
27

34+00





2971



2965

T

39+00

BT BT  
12 12

+50

BT BT  
12 12

38+00

BT BT  
12 12

+83 £ ENTR

+50

+51 TP  
27 BT BT  
12 12

37+00

BT BT  
12 12

+60 £ ENTR

36+50

5 DEC 1967  
CLOUDY  
27°

17

2985

or

2979

+50

+50 WOODS BT BT  
42-100 12 12

+50 WOODS  
61-100

41+00

BT BT  
12 12

+00 WOODS  
54

+50

+50 WOODS  
37-100

BT BT  
12 12

+40 WOODS  
36

40+00

BT BT  
12 12

+82 WOODS  
32-100

+78 PP  
27

+68 N. EDGE LYDIA

+82 PP  
37

+50

+48 MH  
2

+38 S. EDGE LYDIA

+12 NYD  
26

39+00



1 oak

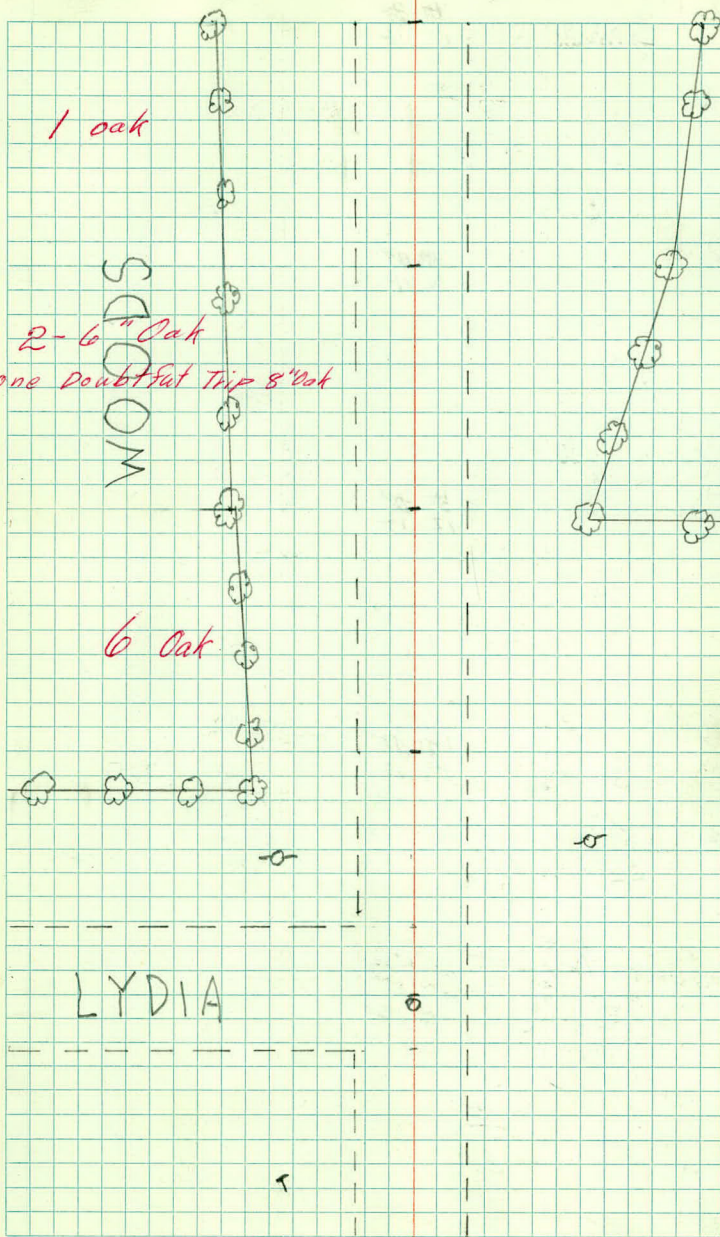
2-6 "Oak

one Doubtful Trip 8"Oak

6 Oak

LYDIA

WOODS



44+00

+93 6" TWIN

47

BT BT  
12 12

+74 PP

26

+70 12" OAK

41

+79 1" MAPLE

46

+70 20" OAK

49

+60 ~~Q~~ ENTR

+50

BT BT  
12 12

+46 ENDWOODS

42

+21 ENDWOODS

53

43+00

BT BT  
12 12

+50

+50 WOODS

41

BT BT  
12 12

+50 WOODS

54

42+00

+40 WOODS

41

BT BT  
12 12

+40 WOODS

54

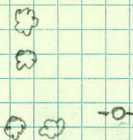
+78 PP

24

41+50

FK May 18, 1970  
CM

19



3023

11 oak

2-1" pine

17 Oak

1 dead 1" pine

WOODS

4 oak

1-1" iron

1 - 8" Box Elder

WOODS

+50

BT BT  
12 12

46+00

BT BT  
12 12  
+84 MH  
2

+50

BT BT  
12 12

+20 TRIPLE ELIM  
50

45+00

+01 HYD  
26

BT BT  
12 12

+83 ♀ ENTR

+66 FLAG POLE  
50

+59 ♀ ENTR

+50

BT BT  
12 12

+17 2" MAPLE  
40

+11 1" PINE  
47

44+00

+04 1" PINE  
49

+03 1" PINE

44 BT BT  
12 12





49+00

BT BT  
12 12

+60 PIPE LINE

+50

94

BT BT  
12 12

48+00

BR. WIRE  
+95 END OF LINE

BT BT  
12 12

48-100

+50

BT BT  
12 12

47+00

BT BT  
12 12

46+50

PIPE LINE

x x x x x

+50

BT BT  
12 12

51+00

100 ER  
BT BT 12  
12 12

+89 BR  
40  
+88 MH  
2

+69 ER  
40

+50

451 BR  
BT BT 12  
12 12

50+00

BT BT  
12 12

+50

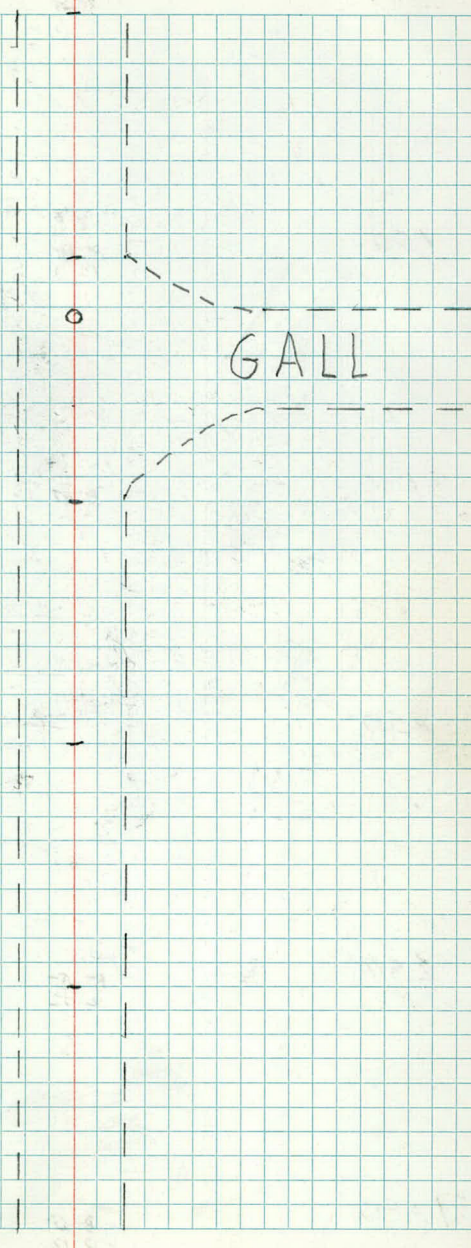
+43 HYD  
27

BT BT  
12 12

49+00

BT BT  
12 12





GALL

54+00

BT BT  
12 12

+96 BR  
13  
+70 4" BIRCH  
36

+96 ARC LIGHT  
32  
+88 AYD  
27

+91 3" PINE  
43  
+93 BR  
13  
+78 3" PINE  
41

+91 3" PINE  
54

+50

+52 1" MAPLE  
23

BT BT  
12 12

+31 6" ASH  
51  
+14 2" PINE  
41

+23 KENTR

53+00

+00 1" PINE  
BT BT 41  
12 12

+91 2" PINE  
41

+68 1" PINE  
41

+79 1" PINE  
41

+50

+41 PP  
33  
+35 ROW 4" POPPIL  
29-100

+53 ROW 4" PINE  
41-100

52+00

BT BT  
12 12

51+50

BT BT  
12 12



2252 'D'



50

£

+50

+23 <sup>15</sup> Mont

+15 ER  
26

+15 ER  
34

54+00

<sup>15</sup>  
+03 CULVERT  
25

<sup>15</sup>  
+03 CULVERT  
31

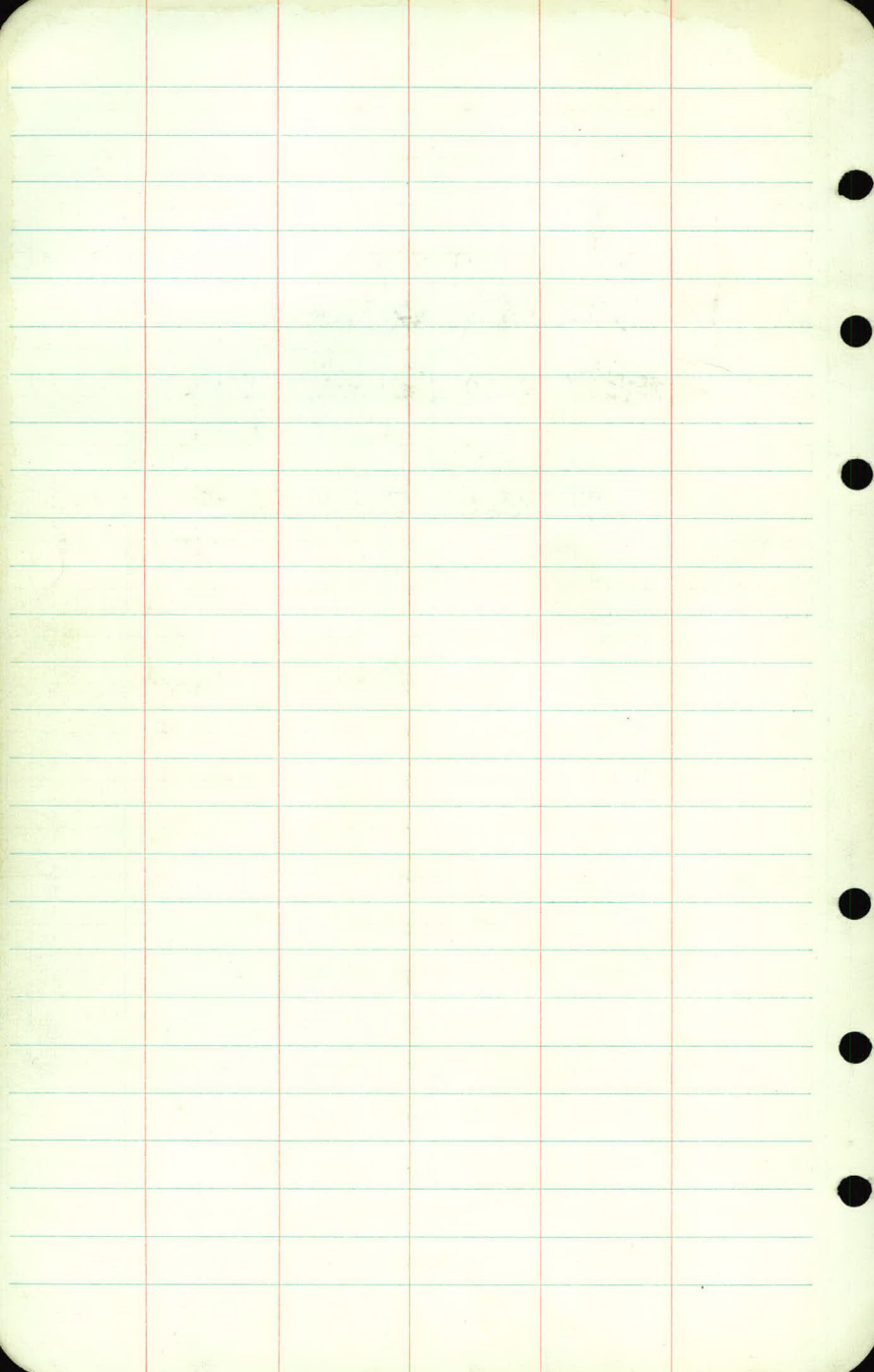


Z

C.O. RD "D"



56.0 x 15.0 CM



ELEV.

BM

<sup>10</sup>  
990.09 TOP HYD. N.W. CORNER MAPLELAND

~~990.09~~ TOP HYD.

965.32

~~971.58~~ TOP HYD. S.W. COR. LYDIA + MCKNIGHT

967.72<sup>3</sup>

~~965.31~~ TOP HYD. BY HD. <sup>#</sup>3045 W. MCKNIGHT

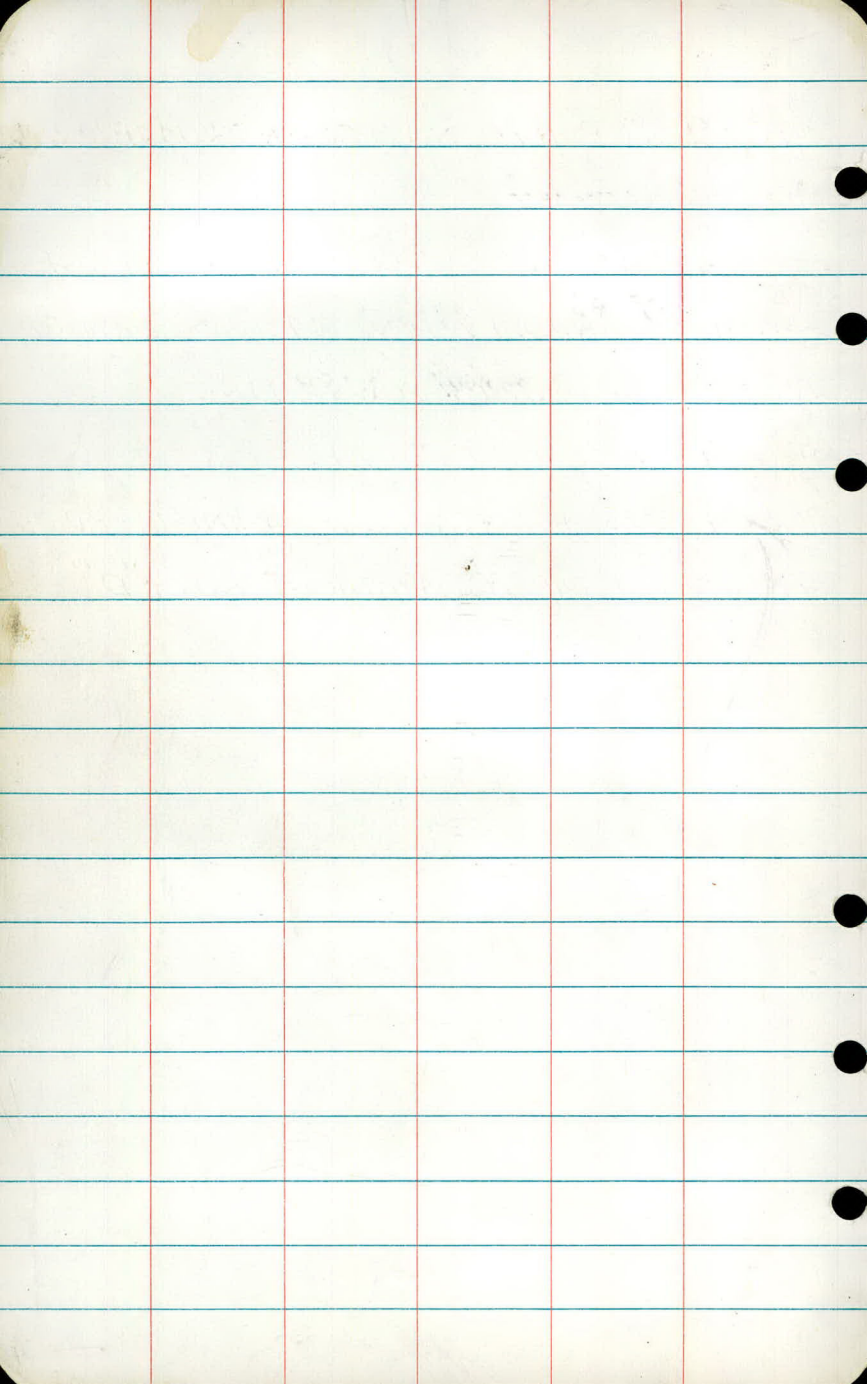
✓ 971.86 TOP HYD. BY POWER LINE

✓ 976.64 NAIL IN T.P. LT.

<sup>05</sup>  
981.04 TOP HYD. S.W. COR. MCKNIGHT RD + "D"

✓ 979.00 TOP MONT. MCKNIGHT RD. + "D"

jk





April 24, 1969 ,

Mc KNIGHT ROAD

Profile

Shoshone Rd to Beam Ave

| Sta | + | $\pi$ | - | Elev. |
|-----|---|-------|---|-------|
|-----|---|-------|---|-------|

|    |      |        |  |        |
|----|------|--------|--|--------|
| BM | 8.73 | 996.56 |  | 987.83 |
|----|------|--------|--|--------|

|       |  |  |       |  |
|-------|--|--|-------|--|
| 0 +00 |  |  | 10.51 |  |
|-------|--|--|-------|--|

|     |  |  |     |  |
|-----|--|--|-----|--|
| +50 |  |  | 9.3 |  |
|-----|--|--|-----|--|

|   |  |  |      |  |
|---|--|--|------|--|
| 1 |  |  | 8.74 |  |
|---|--|--|------|--|

|     |  |  |     |  |
|-----|--|--|-----|--|
| +50 |  |  | 8.2 |  |
|-----|--|--|-----|--|

|   |  |  |      |  |
|---|--|--|------|--|
| 2 |  |  | 7.55 |  |
|---|--|--|------|--|

|    |  |  |      |        |
|----|--|--|------|--------|
| BM |  |  | 4.17 | 992.39 |
|----|--|--|------|--------|

|     |  |  |     |  |
|-----|--|--|-----|--|
| +50 |  |  | 7.0 |  |
|-----|--|--|-----|--|

|    |  |  |      |        |
|----|--|--|------|--------|
| BM |  |  | 3.83 | 992.73 |
|----|--|--|------|--------|

|   |  |  |      |  |
|---|--|--|------|--|
| 3 |  |  | 6.35 |  |
|---|--|--|------|--|

|     |  |  |     |  |
|-----|--|--|-----|--|
| +50 |  |  | 5.8 |  |
|-----|--|--|-----|--|

|   |  |  |     |  |
|---|--|--|-----|--|
| 4 |  |  | 5.2 |  |
|---|--|--|-----|--|

|  |  |  |      |  |
|--|--|--|------|--|
|  |  |  | 0.28 |  |
|--|--|--|------|--|

April 24, 1969

2

Top Hyd SE Corner Shoshone & McKnight

Top MH & Shoshone & McKnight

Top Hyd N.W. Corner Maple View & McKnight

Top Hyd by Ho #2850 McKnight Rd

| Sta  | + | $\Delta$ | -    | Elev   |
|------|---|----------|------|--------|
|      |   | 996.56   |      |        |
| 4+50 |   |          | 4.7  |        |
| 5    |   |          | 4.00 |        |
| +50  |   |          | 3.54 |        |
| 5+63 |   |          | 3.35 |        |
| BM   |   |          | 0.28 | 996.28 |

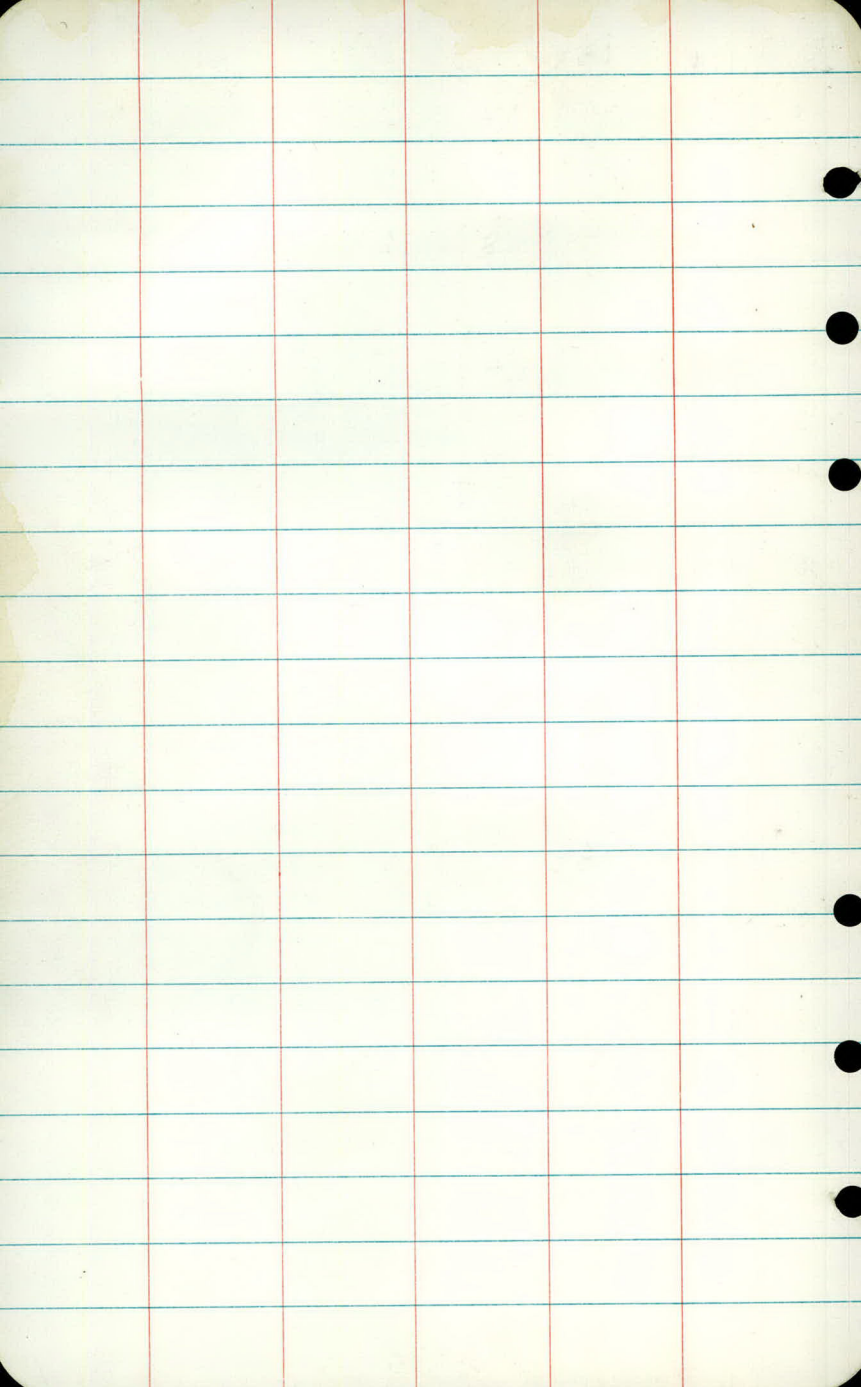


April 24, 1969

3

2 Beam

Top Hyd S.E. Corner Beam & McKnight



April 16, 1970

Lt

L

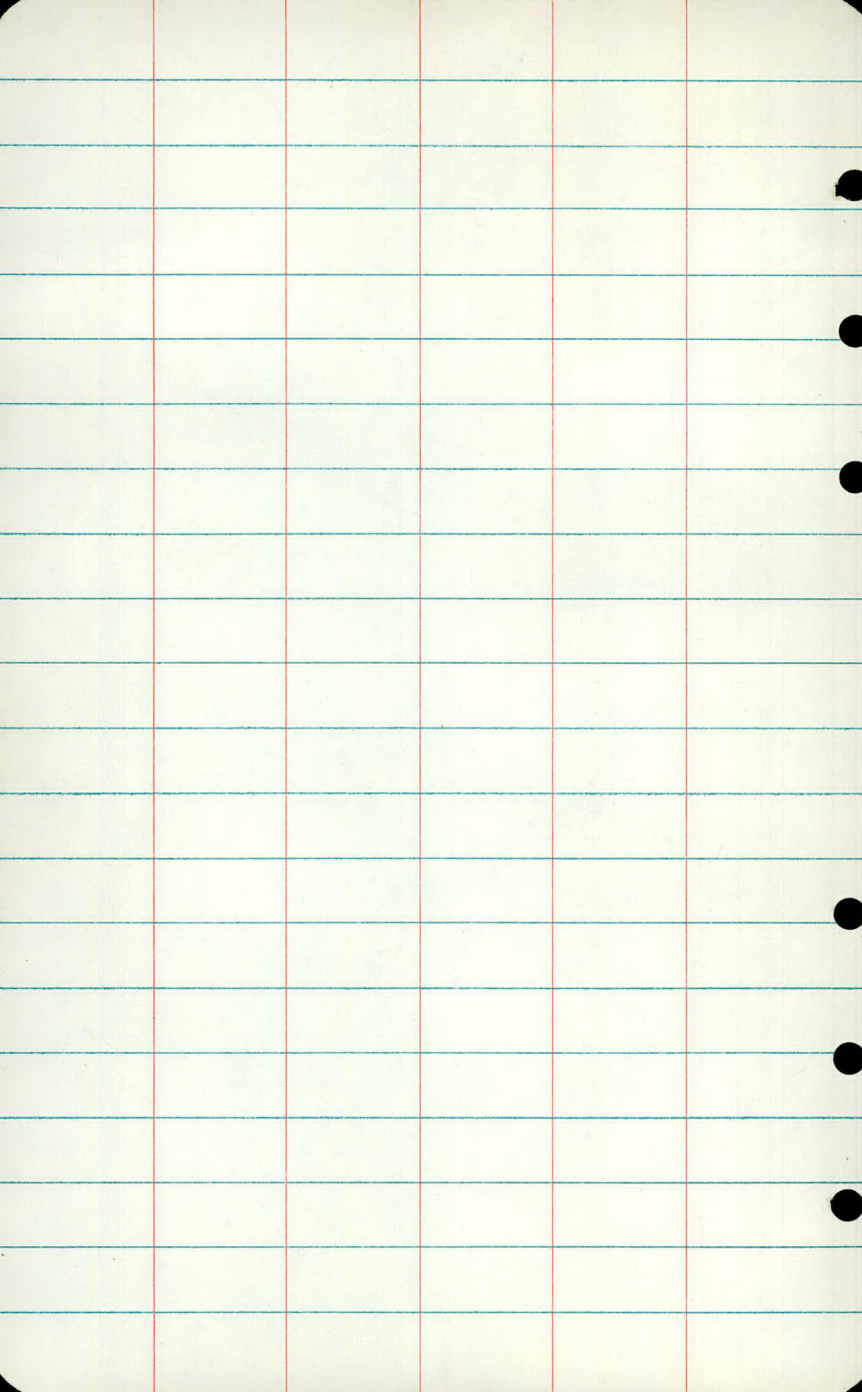
d

|      |      |      |      |      |
|------|------|------|------|------|
| 49.7 | 48.4 | 47.0 | 45.2 | 43.9 |
| 1.8  | 3.1  | 4.5  | 6.3  | 7.6  |
| 100  | 77   | 48   | 37   | 27   |

✓

|      |      |      |      |       |
|------|------|------|------|-------|
| 50.0 | 49.4 | 47.4 | 45.2 | 47.81 |
| 1.5  | 2.1  | 4.1  | 6.3  | 3.64  |
| 100  | 83   | 44   | 30   |       |

✓





May 14, 1970

1

## Low Spot Location

982.00 D<sup>d</sup> McKnight Hyd

980.00 Top Monument at D

976.20

Linter Bad

BM

977.70

52

±

76.99

40' B+

52+50

75.6

52+85

74.7

+20

74.5

+05

74.6

51+90

74.4

+75

73.2

+60

73.5

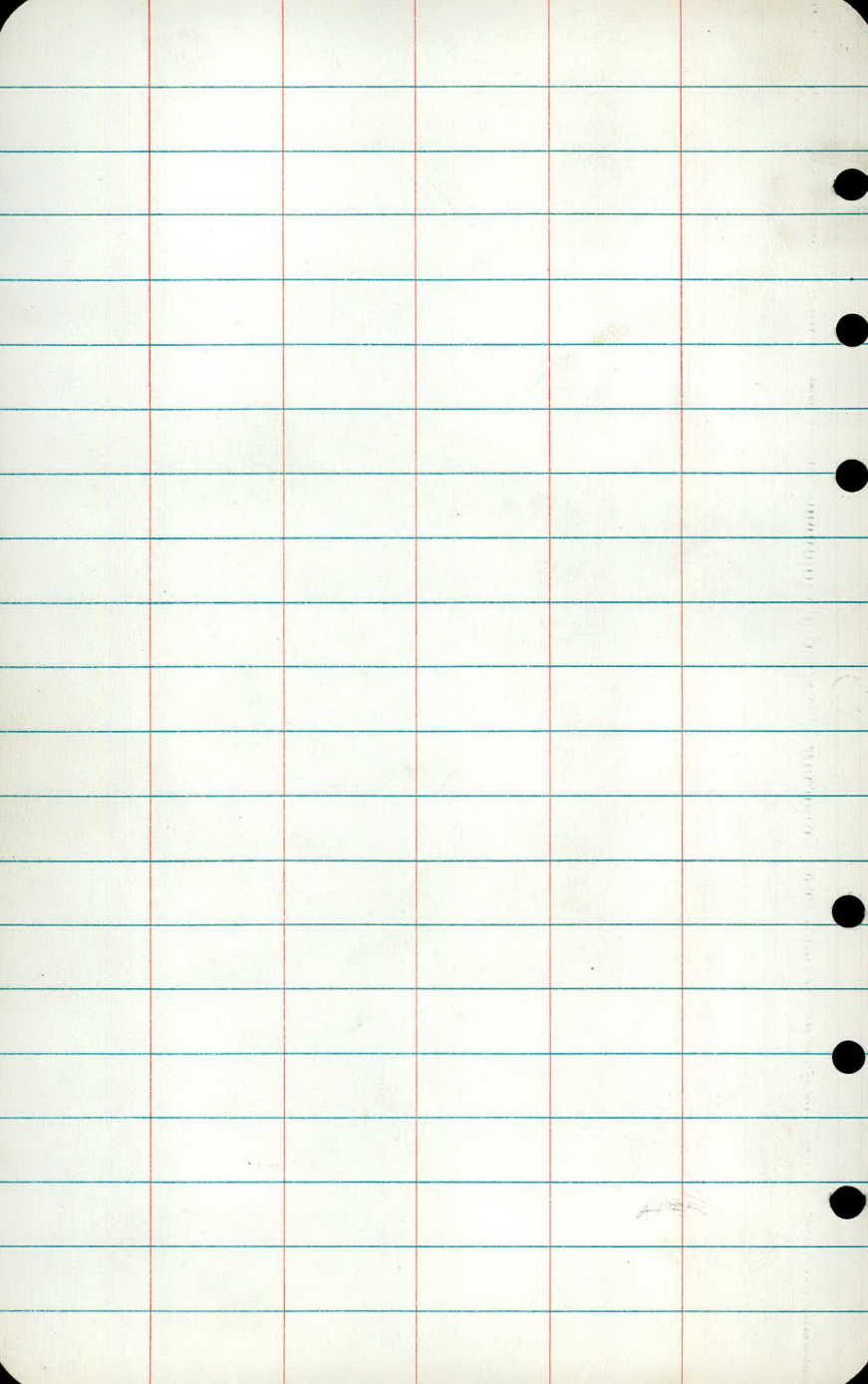
+45

74.1

May 14, 1970

2

Nail in PP Lt Sta 52+50





L+

E

R+

|              |              |              |               |              |              |              |
|--------------|--------------|--------------|---------------|--------------|--------------|--------------|
| $\dot{q}4.6$ | $\dot{q}3.4$ | $\dot{q}3.4$ | $\dot{q}3.70$ | $\dot{q}3.7$ | $\dot{q}5.3$ | $\dot{q}7.4$ |
| 3.3          | 4.5          | 4.5          | 4.23          | 4.2          | 2.6          | 0.5          |
| 64           | 29           | 16           |               | 16           | 33           | 54           |
| Ho.          |              |              |               |              |              |              |

|              |              |              |              |
|--------------|--------------|--------------|--------------|
| $\dot{q}3.6$ | $\dot{q}3.6$ | $\dot{q}5.2$ | $\dot{q}6.4$ |
| 4.3          | 4.3          | 2.7          | 1.5          |
|              | 16           | 33           | 63           |

|              |              |              |              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| $\dot{q}3.3$ | $\dot{q}3.3$ | $\dot{q}2.9$ | $\dot{q}3.2$ | $\dot{q}3.1$ | $\dot{q}4.6$ | $\dot{q}5.6$ | $\dot{q}6.3$ |
| 4.6          | 4.6          | 5.0          | 4.7          | 4.8          | 3.3          | 2.3          | 1.6          |
| 60           | 28           | 17           |              | 16           | 28           | 44           | 62           |

|              |              |              |               |              |              |              |
|--------------|--------------|--------------|---------------|--------------|--------------|--------------|
| $\dot{q}2.0$ | $\dot{q}2.5$ | $\dot{q}2.1$ | $\dot{q}2.62$ | $\dot{q}2.7$ | $\dot{q}3.9$ | $\dot{q}5.0$ |
| 5.9          | 5.4          | 5.8          | 5.31          | 5.7          | 4.0          | 2.9          |
| 62           | 33           | 17           |               | 18           | 31           | 57           |

|              |              |              |              |              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| $\dot{q}1.7$ | $\dot{q}2.1$ | $\dot{q}1.3$ | $\dot{q}1.5$ | $\dot{q}1.2$ | $\dot{q}2.4$ | $\dot{q}3.5$ | $\dot{q}2.4$ | $\dot{q}2.6$ |
| 6.2          | 5.8          | 6.6          | 6.4          | 6.7          | 5.5          | 4.4          | 5.5          | 5.7          |
| 59           | 31           | 16           |              | 18           | 26           | 35           | 46           | 68           |

|              |              |              |              |               |              |              |              |              |
|--------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|
| $\dot{q}1.4$ | $\dot{q}1.1$ | $\dot{q}1.1$ | $\dot{q}0.5$ | $\dot{q}0.56$ | $\dot{q}0.2$ | $\dot{q}1.4$ | $\dot{q}1.2$ | $\dot{q}1.2$ |
| 6.5          | 6.8          | 6.8          | 7.4          | 7.37          | 7.7          | 6.5          | 6.7          | 6.7          |
| 61           | 45           | 27           | 16           |               | 18           | 32           | 56           | 77           |
| Ho           |              |              |              |               |              |              |              |              |

| STA | + | $\pi$ | - | ELEV |
|-----|---|-------|---|------|
|-----|---|-------|---|------|

|  |  |        |  |  |
|--|--|--------|--|--|
|  |  | 997.93 |  |  |
|--|--|--------|--|--|

|       |  |             |        |  |
|-------|--|-------------|--------|--|
| 29+40 |  | GUTTER LINE | Lt (S) |  |
|-------|--|-------------|--------|--|

|     |  |              |  |  |
|-----|--|--------------|--|--|
| +55 |  | 4 MAPLE LANE |  |  |
|-----|--|--------------|--|--|

|     |  |             |        |  |
|-----|--|-------------|--------|--|
| +72 |  | GUTTER LINE | Lt (W) |  |
|-----|--|-------------|--------|--|

|       |  |  |  |  |
|-------|--|--|--|--|
| 30+00 |  |  |  |  |
|-------|--|--|--|--|

|    |      |        |      |                 |
|----|------|--------|------|-----------------|
| BM | 4.62 | 995.71 | 6.77 | 991.16 (991.09) |
|----|------|--------|------|-----------------|

|       |  |  |  |  |
|-------|--|--|--|--|
| 30+50 |  |  |  |  |
|-------|--|--|--|--|

L+

E

R+

88.3 88.8 89.3 89.5 89.7 89.5 90.8 90.8  
 9.6 9.1 8.6 8.4 8.2 8.4 7.1 7.1  
 100 61 43 16 16 32 63

87.6 88.5 89.1 89.2 89.5 89.1 90.3 90.5 90.2  
 10.3 9.4 8.8 8.7 8.4 8.8 7.6 7.4 7.7  
 100 64 41 19 18 28 52 75

87.7 88.4 89.0 88.8 89.2 88.9 90.2 90.2 90.1  
 10.2 9.5 8.9 9.1 8.7 9.0 7.7 7.7 7.2  
 100 65 38 18 19 29 51 75

90.1 89.1 88.7 88.3 88.6 88.3 89.7 90.6 91.4  
 7.8 8.2 9.2 9.6 9.3 9.6 8.2 7.3 6.5  
 64 46 26 16 19 29 53 80

Top Hyd N.W. Cor MAPLE LANE

90.7 90.1 88.3 87.9 87.2 87.4 87.1 89.4 90.7  
 50 5.6 7.4 7.8 8.5 8.3 8.6 6.3 5.0  
 59 47 36 26 17 19 27 50  
 Ho.

S/A

+

 $\pi$ 

-

ELEV

995.71

31+00

+36

ENT LT BIT

+50

32+00

+10

ENT LT BIT

+50

TP

10.13

992.09

13.75

981.96



L7.

E

R7

|      |      |      |      |       |      |      |      |      |      |
|------|------|------|------|-------|------|------|------|------|------|
| 88.7 | 87.8 | 86.6 | 85.9 | 86.30 | 85.9 | 87.6 | 90.8 | 91.2 | 90.5 |
| 7.0  | 7.9  | 9.1  | 9.8  | 9.41  | 9.8  | 8.1  | 4.9  | 4.5  | 5.2  |
| 59   | 40   | 24   | 17   |       | 19   | 28   | 43   | 61   | 86   |

|      |      |      |      |      |
|------|------|------|------|------|
| 88.5 | 88.0 | 86.3 | 85.2 | 85.5 |
| 7.2  | 7.7  | 9.4  | 10.5 | 10.2 |
| 70   | 56   | 33   | 19   |      |

Ho.

|      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|
| 88.6 | 88.0 | 87.1 | 86.3 | 84.9 | 85.2 | 84.8 | 86.5 | 92.3 | 91.9 | 92.4 |
| 7.1  | 7.7  | 8.6  | 9.4  | 10.8 | 10.5 | 10.9 | 9.2  | 3.4  | 3.8  | 3.3  |
| 78   | 62   | 45   | 30   | 20   |      | 17   | 30   | 47   | 62   | 83   |

Ho

|      |      |      |      |       |      |      |      |      |      |
|------|------|------|------|-------|------|------|------|------|------|
| 88.2 | 86.9 | 85.6 | 83.9 | 82.12 | 83.6 | 85.0 | 93.5 | 92.9 | 93.9 |
| 7.5  | 8.8  | 10.1 | 11.8 | 11.59 | 12.1 | 10.7 | 2.2  | 2.8  | 1.8  |
| 69   | 50   | 31   | 16   |       | 18   | 31   | 53   | 68   | 86   |

Ho.

|      |      |      |      |      |
|------|------|------|------|------|
| 86.1 | 87.6 | 86.4 | 83.7 | 82.8 |
| 7.6  | 8.1  | 9.3  | 12.0 | 11.9 |
| 69   | 59   | 42   | 19   |      |

Ho

|      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|
| 87.8 | 86.0 | 84.0 | 82.7 | 83.0 | 82.7 | 84.5 | 93.2 | 92.9 | 94.1 |
| 7.9  | 9.7  | 11.7 | 13.6 | 12.7 | 13.0 | 11.2 | 2.5  | 2.8  | 1.6  |
| 68   | 47   | 27   | 17   |      | 18   | 30   | 54   | 70   | 83   |

Ho.

PK E STA 33 + 00

| STA | + | $\pi$ | - | ELEV |
|-----|---|-------|---|------|
|-----|---|-------|---|------|

|  |  |        |  |  |
|--|--|--------|--|--|
|  |  | 992.09 |  |  |
|--|--|--------|--|--|

|       |  |  |  |  |
|-------|--|--|--|--|
| 33+00 |  |  |  |  |
|-------|--|--|--|--|

|     |  |  |  |  |
|-----|--|--|--|--|
| +50 |  |  |  |  |
|-----|--|--|--|--|

|       |  |  |  |  |
|-------|--|--|--|--|
| 34+00 |  |  |  |  |
|-------|--|--|--|--|

|    |      |        |       |        |        |
|----|------|--------|-------|--------|--------|
| BM | 2.57 | 984.36 | 10.19 | 981.90 | 981.79 |
|----|------|--------|-------|--------|--------|

|       |  |  |  |  |  |
|-------|--|--|--|--|--|
| 34+50 |  |  |  |  |  |
|-------|--|--|--|--|--|

|       |  |  |  |  |  |
|-------|--|--|--|--|--|
| 35+00 |  |  |  |  |  |
|-------|--|--|--|--|--|

24 DEC 1969

L+

♀

R+

|      |      |      |      |       |      |      |      |      |
|------|------|------|------|-------|------|------|------|------|
| 82.9 | 83.6 | 82.6 | 81.8 | 81.96 | 81.7 | 83.1 | 90.1 | 89.5 |
| 92   | 85   | 95   | 10.3 | 10.13 | 10.4 | 9.0  | 2.0  | 2.6  |
| 71   | 47   | 23   | 15   |       | 16   | 27   | 50   | 70   |

|      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|
| 81.9 | 82.3 | 81.6 | 80.8 | 80.9 | 80.4 | 82.0 | 87.4 | 86.3 | 86.2 |
| 10.2 | 9.8  | 10.5 | 11.3 | 11.2 | 11.7 | 10.1 | 4.7  | 6.6  | 5.9  |
| 67   | 50   | 25   | 14   |      | 18   | 30   | 48   | 63   | 84   |

|      |      |      |       |      |      |      |      |      |
|------|------|------|-------|------|------|------|------|------|
| 80.0 | 80.7 | 79.3 | 79.51 | 79.0 | 80.1 | 80.9 | 84.3 | 83.6 |
| 12.1 | 11.4 | 12.8 | 12.58 | 3.1  | 12.0 | 11.2 | 7.8  | 8.5  |
| 64   | 42   | 14   |       | 16   | 23   | 32   | 44   | 61   |

|      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|
| 78.8 | 79.0 | 78.3 | 77.9 | 76.1 | 77.6 | 79.1 | 82.4 | 81.6 |
| 5.6  | 5.4  | 6.1  | 6.5  | 6.3  | 6.8  | 5.3  | 2.0  | 2.8  |
| 63   | 47   | 23   | 16   |      | 16   | 30   | 43   | 66   |

|      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|
| 77.3 | 78.0 | 77.2 | 76.3 | 76.3 | 76.1 | 76.4 | 77.7 | 80.2 | 79.0 |
| 7.1  | 6.4  | 7.2  | 8.1  | 7.90 | 8.3  | 7.6  | 6.7  | 4.2  | 5.4  |
| 70   | 49   | 29   | 16   |      | 17   | 23   | 33   | 50   | 73   |

| STA | + | $\pi$ | - | ELEV |
|-----|---|-------|---|------|
|-----|---|-------|---|------|

|  |  |        |  |  |
|--|--|--------|--|--|
|  |  | 984.36 |  |  |
|--|--|--------|--|--|

|       |   |     |    |        |
|-------|---|-----|----|--------|
| 35+10 | ♀ | ENT | Lt | (Diet) |
|-------|---|-----|----|--------|

|     |  |  |  |  |
|-----|--|--|--|--|
| +50 |  |  |  |  |
|-----|--|--|--|--|

|     |   |     |    |        |
|-----|---|-----|----|--------|
| +83 | ♀ | ENT | Lt | (CONC) |
|-----|---|-----|----|--------|

|       |  |  |  |  |
|-------|--|--|--|--|
| 36+00 |  |  |  |  |
|-------|--|--|--|--|

|    |       |        |       |        |
|----|-------|--------|-------|--------|
| TP | 11.53 | 985.01 | 10.88 | 973.48 |
|----|-------|--------|-------|--------|

|     |   |     |    |  |
|-----|---|-----|----|--|
| +59 | ♀ | ENT | Lt |  |
|-----|---|-----|----|--|



Lt

Σ

Rt

$\dot{17.9}$   $\dot{17.2}$   $\dot{15.6}$   $\dot{16.1}$   
 6.5 7.2 8.8 8.3  
 67 44 22  
 Ho

$\dot{16.0}$   $\dot{16.9}$   $\dot{15.4}$   $\dot{14.8}$   $\dot{14.9}$   $\dot{14.9}$   $\dot{15.6}$   $\dot{80.1}$   $\dot{17.7}$   $\dot{17.5}$   
 6.4 7.5 9.0 9.6 9.5 9.5 8.8 4.3 6.7 6.9  
 69 46 29 16 17 30 43 59 77

$\dot{15.49}$   $\dot{15.29}$   $\dot{14.81}$   $\dot{13.7}$   $\dot{14.0}$   
 8.87 9.07 9.55 10.7 10.4  
 69 55 41 17  
 Ho.

$\dot{15.7}$   $\dot{15.3}$   $\dot{14.2}$   $\dot{13.0}$   $\dot{13.48}$   $\dot{13.5}$   $\dot{15.1}$   $\dot{18.9}$   $\dot{16.9}$   
 8.7 9.1 10.2 11.4 10.88 10.9 9.3 5.5 7.5  
 69 52 29 17 18 32 47 70  
 Ho.

PK &amp; STA 36+00

$\dot{12.9}$   $\dot{12.3}$   $\dot{11.8}$   $\dot{11.5}$   $\dot{11.6}$   $\dot{11.4}$   $\dot{12.4}$   $\dot{13.2}$   $\dot{19.1}$   $\dot{19.8}$   
 12.1 12.7 13.2 13.5 13.4 13.6 12.6 11.8 5.9 5.2  
 69 40 26 16 17 25 34 49 62  
 Ho.

$\frac{7.1}{85}$

STA

+

T

-

ELEV

985.01

37+00

+50

38+00

+50

T.P

5.15

976.92

13.24

971.77

37+00

B.M

5.14

976.92

13.24

974.44

973.32

KP  
LPD  
ML  
GA

L+

E

R+

|      |      |      |      |
|------|------|------|------|
| 71.3 | 71.6 | 80.3 | 80.5 |
| 13.7 | 13.4 | 4.7  | 4.5  |
| 30   | 35   | 52   | 77   |

|      |      |      |
|------|------|------|
| 70.8 | 81.8 | 83.3 |
| 14.2 | 3.2  | 1.7  |
| 35   | 59   | 76   |

|      |      |
|------|------|
| 79.2 | 80.4 |
| 5.8  | 4.6  |
| 57   | 86   |

|      |      |
|------|------|
| 71.9 | 71.9 |
| 13.1 | 13.1 |
| 44   | 75   |

TOP STAKE R+ 38+10

|      |      |      |      |       |      |
|------|------|------|------|-------|------|
| 73.0 | 71.6 | 70.3 | 70.3 | 70.41 | 70.1 |
| 3.9  | 5.3  | 6.6  | 6.6  | 6.51  | 6.8  |
| 67   | 36   | 25   | 18   |       | 17   |
| Ho.  |      |      |      |       |      |

| STA | + | $\pi$ | - | ELEV |
|-----|---|-------|---|------|
|-----|---|-------|---|------|

|  |  |        |  |  |
|--|--|--------|--|--|
|  |  | 976.92 |  |  |
|--|--|--------|--|--|

|       |  |  |  |  |
|-------|--|--|--|--|
| 37+50 |  |  |  |  |
|-------|--|--|--|--|

|     |  |  |  |  |
|-----|--|--|--|--|
| +82 |  |  |  |  |
|-----|--|--|--|--|

|       |  |  |  |  |
|-------|--|--|--|--|
| 38+00 |  |  |  |  |
|-------|--|--|--|--|

|     |  |  |  |  |
|-----|--|--|--|--|
| +50 |  |  |  |  |
|-----|--|--|--|--|

|       |  |  |  |  |
|-------|--|--|--|--|
| 39+00 |  |  |  |  |
|-------|--|--|--|--|

|    |      |        |       |                 |
|----|------|--------|-------|-----------------|
| BM | 5.44 | 971.76 | 10.57 | 966.35 (966.32) |
|----|------|--------|-------|-----------------|



L+

E

R+

|      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|
| 71.6 | 70.5 | 69.6 | 68.5 | 68.8 | 68.6 | 69.7 | 71.0 |
| 5.3  | 6.4  | 7.3  | 8.4  | 8.1  | 8.3  | 7.2  | 5.9  |
| 66   | 44   | 25   | 17   |      | 15   | 22   | 34   |
| Ho.  |      |      |      |      |      |      |      |

|      |      |      |      |      |
|------|------|------|------|------|
| 71.6 | 70.5 | 68.0 | 67.8 | 67.8 |
| 5.3  | 6.4  | 8.9  | 9.1  | 9.1  |
| 70   | 53   | 32   | 17   |      |
| Ho.  |      |      |      |      |

|      |      |      |      |      |       |      |      |      |
|------|------|------|------|------|-------|------|------|------|
| 68.5 | 68.7 | 68.4 | 67.5 | 67.2 | 67.29 | 67.0 | 68.3 | 69.8 |
| 8.4  | 8.2  | 8.5  | 9.4  | 9.7  | 9.3   | 9.9  | 8.6  | 7.1  |
| 70   | 56   | 37   | 23   | 15   |       | 15   | 24   | 37   |

|      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|
| 66.5 | 66.1 | 65.8 | 65.7 | 65.8 | 65.8 | 66.7 | 68.1 |
| 10.4 | 10.8 | 11.1 | 11.2 | 11.1 | 11.1 | 10.2 | 8.8  |
| 71   | 45   | 24   | 15   |      | 17   | 23   | 34   |

|      |      |      |      |       |      |      |      |      |
|------|------|------|------|-------|------|------|------|------|
| 64.9 | 65.1 | 64.2 | 64.2 | 64.29 | 64.8 | 65.7 | 66.6 | 67.9 |
| 12.0 | 11.8 | 12.7 | 12.7 | 12.63 | 12.1 | 11.2 | 10.3 | 9.0  |
| 70   | 45   | 20   | 18   |       | 16   | 24   | 39   | 63   |

TOP HYD SW COR LYDIA E MCKNIGHT

Sta

+

K

-

ELEV

971.76

+30

Gutter Lt (S)

+45

E Lydia

+63

Gutter Lt (N)

+74

+85

40+00

TP

17.16

981.29

7.57

964.19

29 DEC 1969

Lt

E

Rt

$\dot{62.2}$   $\dot{62.8}$   $\dot{63.4}$   $\dot{63.7}$   $\dot{63.8}$   $\dot{64.1}$   $\dot{66.0}$   $\dot{65.8}$   $\dot{67.1}$   
 9.6 9.0 8.4 8.1 8.0 7.7 5.8 6.0 4.7  
 100 69 35 16 16 23 46 67

$\dot{62.0}$   $\dot{62.4}$   $\dot{63.1}$   $\dot{63.5}$   $\dot{63.7}$   $\dot{63.8}$   $\dot{66.8}$   $\dot{67.2}$   $\dot{65.3}$   $\dot{63.7}$   
 9.8 9.4 8.7 8.3 8.1 8.0 5.0 4.6 6.5 8.1  
 100 72 38 15 15 24 46 52 73

$\dot{61.6}$   $\dot{62.0}$   $\dot{62.8}$   $\dot{63.2}$   $\dot{63.6}$   $\dot{63.7}$   $\dot{64.9}$   $\dot{64.2}$   $\dot{62.5}$   
 10.2 9.8 9.0 8.6 8.2 8.1 6.9 7.6 9.3  
 100 67 38 17 14 23 43 65

$\dot{62.6}$   $\dot{62.1}$   $\dot{63.5}$   $\dot{63.2}$   $\dot{63.6}$   $\dot{63.6}$   $\dot{64.5}$   $\dot{62.9}$   $\dot{62.6}$   
 9.2 9.1 8.3 8.6 8.2 8.2 7.3 8.9 9.2  
 70 53 34 15 15 23 41 62

$\dot{68.2}$   $\dot{65.9}$   $\dot{64.6}$   $\dot{64.2}$   $\dot{63.2}$   $\dot{63.5}$   $\dot{63.5}$   $\dot{64.5}$   $\dot{62.2}$   $\dot{61.8}$   $\dot{64.6}$   
 3.6 5.9 7.2 7.6 8.6 8.3 8.3 7.3 9.6 10.0 7.2  
 70 61 43 25 16 15 25 41 61 70

$\dot{69.8}$   $\dot{66.8}$   $\dot{66.0}$   $\dot{66.0}$   $\dot{63.4}$   $\dot{63.2}$   $\dot{63.4}$   $\dot{64.2}$   $\dot{62.2}$   $\dot{62.1}$   
 2.0 5.0 7.8 5.8 8.4 8.6 8.36 8.4 7.6 9.6 9.7  
 70 52 40 26 21 15 17 25 44 70

PK ± STA 41+00

Sta

+

$\pi$

-

ELEV

981.29

63.48  
17.81

39+49

40+50

✓

41+00

✓

+50



Lt

E

Rt

Top MH E

$\begin{array}{cccccccccccc} 11.8 & 16.1 & 64.9 & 63.4 & 63.5 & 63.8 & 63.4 & 64.1 & 64.1 & 62.0 & 62.0 \\ 9.5 & 7.2 & 16.4 & 17.9 & 17.8 & 17.5 & 17.9 & 17.2 & 17.2 & 19.3 & 19.3 \\ 63 & 40 & 25 & 21 & 16 & & 18 & 25 & 33 & 57 & 71 \end{array}$

$\begin{array}{r} 1.3 \\ 81.0 \\ \hline 79.7 \end{array}$

$\begin{array}{cccccccccccc} 68.2 & 12.3 & 64.4 & 64.3 & 63.8 & 64.19 & 63.9 & 65.2 & 66.5 & 64.8 & 62.5 \\ 13.1 & 9.0 & 16.9 & 17.0 & 17.5 & 17.10 & 17.4 & 16.1 & 14.8 & 16.5 & 18.5 \\ 57 & 34 & 24 & 20 & 16 & & 18 & 26 & 39 & 52 & 65 \end{array}$

$\begin{array}{cccccccccccc} 61.8 & 64.5 & 64.8 & 64.0 & 64.1 & 64.3 & 64.2 & 65.3 & 65.9 & 74.3 & 68.8 \\ 19.5 & 16.8 & 16.5 & 17.3 & 17.2 & 17.0 & 17.1 & 16.0 & 15.4 & 7.0 & 12.5 \\ 65 & 46 & 28 & 23 & 17 & & 19 & 26 & 36 & 54 & 71 \end{array}$

| Sta | + | $\pi$ | - | ELEV |
|-----|---|-------|---|------|
|-----|---|-------|---|------|

|  |  |        |  |  |
|--|--|--------|--|--|
|  |  | 981.29 |  |  |
|--|--|--------|--|--|

|       |  |  |  |  |
|-------|--|--|--|--|
| 42+00 |  |  |  |  |
|-------|--|--|--|--|

|   |  |  |  |  |
|---|--|--|--|--|
| ✓ |  |  |  |  |
|---|--|--|--|--|

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|-----|--|--|--|--|
| +50 |  |  |  |  |
|-----|--|--|--|--|

|   |  |  |  |  |
|---|--|--|--|--|
| ✓ |  |  |  |  |
|---|--|--|--|--|

|       |  |  |  |  |
|-------|--|--|--|--|
| 43+00 |  |  |  |  |
|-------|--|--|--|--|

|   |  |  |  |  |
|---|--|--|--|--|
| ✓ |  |  |  |  |
|---|--|--|--|--|

|    |      |        |       |        |
|----|------|--------|-------|--------|
| TP | 7.42 | 973.47 | 15.24 | 966.05 |
|----|------|--------|-------|--------|

29 DEC 1969

L+

E

R+

|      |      |      |      |       |      |      |      |     |
|------|------|------|------|-------|------|------|------|-----|
| 17.0 | 15.0 | 10.0 | 14.3 | 14.7  | 14.4 | 16   | 15.8 | 1   |
| 16.1 | 16.3 | 16.3 | 17.0 | 16.55 | 16.9 | 15.7 | 14.8 | 5.5 |
| 60   | 46   | 23   | 16   |       | 19   | 25   | 31   | 55  |

|      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|
| 15.7 | 14.7 | 11.9 | 11.0 | 14.8 | 15.2 | 14.9 | 15.8 | 16.1 | 17.1 |
| 5.6  | 6.6  | 13.4 | 14.3 | 16.5 | 16.1 | 16.4 | 15.5 | 15.2 | 14.2 |
| 60   | 48   | 27   | 23   | 16   |      | 18   | 23   | 40   | 57   |

17.3  
14.0  
68

|      |      |      |      |       |      |      |      |      |
|------|------|------|------|-------|------|------|------|------|
| 12.6 | 14.7 | 15.7 | 15.2 | 15.38 | 15.0 | 15.6 | 15.3 | 17.2 |
| 8.8  | 6.6  | 15.6 | 16.1 | 15.91 | 16.3 | 15.7 | 16.0 | 17.1 |
| 55   | 39   | 22   | 14   |       | 17   | 26   | 46   | 59   |

70.4  
10.9  
72  
Ho.

PK E STA 44+00

| Sta | + | $\pi$  | - | ELEV |
|-----|---|--------|---|------|
|     |   | 973.47 |   |      |

|       |   |     |    |     |
|-------|---|-----|----|-----|
| 43+55 | ± | ENT | Lt | Bit |
|-------|---|-----|----|-----|

44+00

|     |   |     |    |      |
|-----|---|-----|----|------|
| 450 | ± | ENT | Lt | CONC |
|-----|---|-----|----|------|

|     |   |     |    |     |
|-----|---|-----|----|-----|
| 481 | ± | ENT | Lt | Bit |
|-----|---|-----|----|-----|

45+00

|    |       |        |      |        |          |
|----|-------|--------|------|--------|----------|
| BM | 13.36 | 982.08 | 4.72 | 968.75 | (968.72) |
|----|-------|--------|------|--------|----------|



29 DEC 1969

Lt

E

Rt

$\begin{matrix} 9.9 & 9.3 & 7.1 & 5.7 & 5.8 & 5.6 & 6.6 & 6.1 & 5.2 & 5.1 \\ 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 \end{matrix}$   
 $\begin{matrix} 3.6 & 4.2 & 6.4 & 7.8 & 7.7 & 7.9 & 6.9 & 7.4 & 8.3 & 17.4 \\ 73 & 54 & 31 & 18 & & 20 & 26 & 37 & 45 & 69 \end{matrix}$

$\begin{matrix} 73.5 & 72.5 & 7.1 & 6.7 & 5.9 & 6.05 & 5.7 & 6.8 & 6.2 & 5.1 \\ 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 \end{matrix}$   
 $\begin{matrix} 0.0 & 1.0 & 5.8 & 6.8 & 7.6 & 7.42 & 7.8 & 6.7 & 7.3 & 16.4 \\ 74 & 64 & 42 & 24 & 17 & & 19 & 29 & 40 & 63 \end{matrix}$   
 Ho

$\begin{matrix} 72.21 & 70.16 & 7.42 & 6.90 & 6.3 & 6.3 & 5.9 & 6.8 & 5.7 & 5.5 \\ 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 \end{matrix}$   
 $\begin{matrix} 1.26 & 3.31 & 6.05 & 6.57 & 7.2 & 7.2 & 7.6 & 6.7 & 7.8 & 15.0 \\ 86 & 71 & 52 & 42 & 15 & & 17 & 26 & 47 & 63 \end{matrix}$

$\begin{matrix} 6.78 & 7.9 & 6.9 & 6.5 & 6.5 \\ 6 & 6 & 6 & 6 & 6 \end{matrix}$   
 $\begin{matrix} 4.69 & 5.6 & 6.6 & 7.0 & 7.0 \\ 76 & 65 & 42 & 16 & \end{matrix}$

$\begin{matrix} 5.7 & 6 & 6.4 & 5.9 & 6.3 & 7.0 & 5.9 & 5.7 \\ 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 \end{matrix}$   
 $\begin{matrix} 7.8 & 6.9 & 7.1 & 6.88 & 7.2 & 6.5 & 7.6 & 15.8 \\ 64 & 41 & 15 & & 19 & 26 & 44 & 70 \end{matrix}$

TOP HYD LT 45+0.3

| STA | + | $\pi$ | - | ELEV |
|-----|---|-------|---|------|
|-----|---|-------|---|------|

|  |  |        |  |  |
|--|--|--------|--|--|
|  |  | 982.08 |  |  |
|--|--|--------|--|--|

|       |  |  |  |  |
|-------|--|--|--|--|
| 15+50 |  |  |  |  |
|-------|--|--|--|--|

|   |  |  |  |  |
|---|--|--|--|--|
| ✓ |  |  |  |  |
|---|--|--|--|--|

|     |  |  |  |  |
|-----|--|--|--|--|
| +84 |  |  |  |  |
|-----|--|--|--|--|

|  |  |       |  |  |
|--|--|-------|--|--|
|  |  | 67.20 |  |  |
|  |  | 14.88 |  |  |

|       |  |  |  |  |
|-------|--|--|--|--|
| 16+00 |  |  |  |  |
|-------|--|--|--|--|

|   |  |  |  |  |
|---|--|--|--|--|
| ✓ |  |  |  |  |
|---|--|--|--|--|

|     |  |  |  |  |
|-----|--|--|--|--|
| +50 |  |  |  |  |
|-----|--|--|--|--|

30 DEC 1969

L+

£

R+

|                  |                   |                   |                  |                   |                   |                   |                   |                   |                   |
|------------------|-------------------|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 6 <sup>9.6</sup> | 6 <sup>10.0</sup> | 6 <sup>10.3</sup> | 6 <sup>9.9</sup> | 6 <sup>10.1</sup> | 6 <sup>10.0</sup> | 6 <sup>10.1</sup> | 6 <sup>10.3</sup> | 6 <sup>10.8</sup> | 6 <sup>10.1</sup> |
| 12.5             | 16.1              | 15.8              | 15.2             | 15.4              | 15.1              | 15.4              | 14.8              | 15.3              | 16.4              |
| 89               | 48                | 35                | 23               | 17                |                   | 19                | 27                | 45                | 70                |

MH £

|                  |                   |                   |                   |                    |                   |                   |                   |                   |
|------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|
| 6 <sup>8.7</sup> | 6 <sup>10.9</sup> | 6 <sup>10.4</sup> | 6 <sup>10.0</sup> | 6 <sup>10.53</sup> | 6 <sup>10.2</sup> | 6 <sup>10.8</sup> | 6 <sup>10.2</sup> | 6 <sup>10.4</sup> |
| 13.4             | 14.2              | 14.7              | 15.1              | 14.55              | 14.9              | 14.3              | 13.9              | 7.7               |
| 65               | 36                | 23                | 17                |                    | 19                | 26                | 44                | 62                |

10.9

9.2

8.2

|                   |                   |                   |                   |                   |                   |                   |                   |                   |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 6 <sup>10.3</sup> | 6 <sup>10.3</sup> | 6 <sup>10.1</sup> | 6 <sup>10.3</sup> | 6 <sup>10.9</sup> | 6 <sup>10.8</sup> | 6 <sup>10.6</sup> | 6 <sup>10.4</sup> | 6 <sup>10.9</sup> |
| 14.8              | 14.8              | 14.0              | 14.8              | 14.2              | 14.3              | 13.5              | 12.7              | 4.2               |
| 75                | 49                | 26                | 18                |                   | 17                | 26                | 45                | 59                |

15.3  
6.8  
78

STA

+

$\pi$

-

ELEV

982.08

47+00

✓

+50

✓

48+00

✓



Lt

E

Rt

$\begin{matrix} \overset{\cdot}{59.7} \\ 5 \end{matrix}$ 
 $\begin{matrix} \overset{\cdot}{67.9} \\ 6 \end{matrix}$ 
 $\begin{matrix} \overset{\cdot}{68.6} \\ 6 \end{matrix}$ 
 $\begin{matrix} \overset{\cdot}{67.9} \\ 6 \end{matrix}$ 
 $\begin{matrix} \overset{\cdot}{68.51} \\ 6 \end{matrix}$ 
 $\begin{matrix} \overset{\cdot}{68.4} \\ 6 \end{matrix}$ 
 $\begin{matrix} \overset{\cdot}{69.0} \\ 6 \end{matrix}$ 
 $\begin{matrix} \overset{\cdot}{69.0} \\ 6 \end{matrix}$ 
 $\begin{matrix} \overset{\cdot}{65.3} \\ 6 \end{matrix}$

22.4 14.2 13.6 14.2 13.5 13.7 13.1 13.1 6.8  
 54 41 27 18 18 25 36 44

$\begin{matrix} \overset{\cdot}{66.3} \\ 5 \end{matrix}$

25.8  
74

$\begin{matrix} \overset{\cdot}{74.5} \\ 7 \end{matrix}$

7.6  
67

$\begin{matrix} \overset{\cdot}{16.3} \\ 5 \end{matrix}$ 
 $\begin{matrix} \overset{\cdot}{13.6} \\ 6 \end{matrix}$ 
 $\begin{matrix} \overset{\cdot}{68.3} \\ 6 \end{matrix}$ 
 $\begin{matrix} \overset{\cdot}{69.1} \\ 6 \end{matrix}$ 
 $\begin{matrix} \overset{\cdot}{68.7} \\ 6 \end{matrix}$ 
 $\begin{matrix} \overset{\cdot}{69.3} \\ 6 \end{matrix}$ 
 $\begin{matrix} \overset{\cdot}{69.0} \\ 6 \end{matrix}$ 
 $\begin{matrix} \overset{\cdot}{69.6} \\ 6 \end{matrix}$ 
 $\begin{matrix} \overset{\cdot}{70.3} \\ 7 \end{matrix}$ 
 $\begin{matrix} \overset{\cdot}{76.0} \\ 7 \end{matrix}$ 
 $\begin{matrix} \overset{\cdot}{76.0} \\ 7 \end{matrix}$

25.8 18.5 13.8 13.0 13.4 12.8 13.1 12.5 11.8 6.1 6.1  
 80 58 31 22 18 19 25 39 52 70

$\begin{matrix} \overset{\cdot}{65.6} \\ 6 \end{matrix}$ 
 $\begin{matrix} \overset{\cdot}{68.1} \\ 6 \end{matrix}$ 
 $\begin{matrix} \overset{\cdot}{69.0} \\ 6 \end{matrix}$ 
 $\begin{matrix} \overset{\cdot}{69.4} \\ 6 \end{matrix}$ 
 $\begin{matrix} \overset{\cdot}{69.90} \\ 6 \end{matrix}$ 
 $\begin{matrix} \overset{\cdot}{69.7} \\ 6 \end{matrix}$ 
 $\begin{matrix} \overset{\cdot}{70.3} \\ 7 \end{matrix}$ 
 $\begin{matrix} \overset{\cdot}{71.6} \\ 7 \end{matrix}$ 
 $\begin{matrix} \overset{\cdot}{76.8} \\ 7 \end{matrix}$

16.5 14.0 13.1 12.7 12.18 12.4 11.8 10.5 5.3  
 48 36 25 17 18 27 38 50

$\begin{matrix} \overset{\cdot}{62.8} \\ 6 \end{matrix}$

19.3  
71

$\begin{matrix} \overset{\cdot}{77.4} \\ 7 \end{matrix}$

4.7  
70

STA

+

K

-

ELEV

982.08

48+50

✓

49+00

✓

TP

9.21

981.94

9.35

972.73

49+50

30 Dec 1969

L+

E

R+

|      |      |      |      |       |      |      |      |      |      |
|------|------|------|------|-------|------|------|------|------|------|
| 65.9 | 67.3 | 70.1 | 70.2 | 70.58 | 70.3 | 71.0 | 72.1 | 71.0 | 71.5 |
| 16.2 | 14.8 | 11.4 | 11.9 | 11.50 | 11.8 | 11.1 | 9.9  | 3.1  | 2.6  |
| 65   | 39   | 23   | 18   |       | 19   | 27   | 38   | 55   | 79   |

|      |      |      |      |      |       |      |      |      |      |      |
|------|------|------|------|------|-------|------|------|------|------|------|
| 64.6 | 64.9 | 69.3 | 71.2 | 70.6 | 71.32 | 71.3 | 71.7 | 70.5 | 75.8 | 71.9 |
| 17.5 | 17.2 | 12.8 | 10.9 | 11.5 | 10.76 | 10.8 | 10.4 | 11.6 | 6.3  | 4.2  |
| 70   | 50   | 40   | 26   | 17   |       | 18   | 26   | 36   | 47   | 58   |

78.3

3.8  
74

PK  $\neq$  50 + 100

|      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|
| 64.8 | 65.2 | 69.8 | 71.8 | 71.4 | 72.0 | 71.8 | 72.4 | 71.9 | 71.9 | 72.5 |
| 17.1 | 16.7 | 12.1 | 10.1 | 10.5 | 9.9  | 10.1 | 9.5  | 10.0 | 10.0 | 9.4  |
| 71   | 54   | 39   | 24   | 18   |      | 18   | 25   | 36   | 56   | 71   |

STA

+

T

-

ELEV

981.94

50+00

+50

+66

GUTTER Rt (S)

+77

G GALL

+88

GUTTER Rt (N)

51+00



30 DEC 1969

Lt

L

Rt

$\begin{matrix} 66.4 & 71.9 & 70.8 & 73.2 & 72.3 & 72.73 & 72.9 & 73.6 & 74.6 & 77.1 & 74.9 \\ 15.5 & 14.0 & 11.1 & 8.7 & 9.6 & 9.21 & 9.0 & 8.3 & 7.3 & 4.8 & 7.0 \\ 70 & 58 & 40 & 24 & 17 & & 16 & 24 & 36 & 47 & 70 \end{matrix}$

$\begin{matrix} 71.2 & 72.2 & 74.1 & 74.3 & 73.2 & 73.3 & 73.3 & 74.3 & 77.2 & 77.9 \\ 10.7 & 9.7 & 7.8 & 7.6 & 8.7 & 8.6 & 8.6 & 7.6 & 4.7 & 4.0 \\ 72 & 55 & 37 & 24 & 16 & & 18 & 26 & 44 & 64 \end{matrix}$

$\begin{matrix} 71.8 & 72.8 & 74.5 & 74.8 & 73.5 & 73.8 & 73.6 & 72.0 & 74.8 & 75.8 & 76.7 \\ 10.1 & 9.1 & 7.4 & 7.1 & 8.4 & 8.1 & 8.3 & 7.9 & 7.1 & 6.1 & 5.2 \\ 71 & 53 & 40 & 23 & 16 & & 16 & 33 & 56 & 79 & 100 \end{matrix}$

$\begin{matrix} 71.9 & 72.5 & 74.7 & 74.9 & 73.8 & 74.1 & 73.8 & 74.4 & 75.3 & 76.7 \\ 10.0 & 9.4 & 7.2 & 7.0 & 8.1 & 7.8 & 8.1 & 7.5 & 6.6 & 5.2 \\ 73 & 60 & 43 & 22 & 15 & & 17 & 39 & 63 & 100 \end{matrix}$

$\begin{matrix} 70.4 & 71.9 & 73.5 & 75.0 & 74.1 & 74.4 & 74.2 & 74.7 & 75.4 & 76.2 & 77.0 \\ 11.5 & 10.0 & 8.4 & 6.5 & 7.8 & 7.5 & 7.7 & 7.2 & 6.5 & 5.7 & 4.9 \\ 71 & 56 & 35 & 21 & 16 & & 16 & 39 & 58 & 81 & 100 \end{matrix}$

$\begin{matrix} 69.4 & 70.7 & 72.0 & 74.6 & 74.6 & 74.2 & 74.64 & 74.5 & 75.3 & 77.2 & 78.2 \\ 12.5 & 11.2 & 9.9 & 7.3 & 7.3 & 7.7 & 7.30 & 7.4 & 6.6 & 4.7 & 3.7 \\ 70 & 58 & 40 & 29 & 22 & 16 & & 16 & 27 & 44 & 67 \end{matrix}$

| STA | + | $\pi$ | - | ELEV |
|-----|---|-------|---|------|
|-----|---|-------|---|------|

|  |  |        |  |  |
|--|--|--------|--|--|
|  |  | 981.94 |  |  |
|--|--|--------|--|--|

|       |  |  |  |  |
|-------|--|--|--|--|
| 51+50 |  |  |  |  |
|-------|--|--|--|--|

|       |  |  |  |  |
|-------|--|--|--|--|
| 52+00 |  |  |  |  |
|-------|--|--|--|--|

|   |    |  |  |  |
|---|----|--|--|--|
| + | 50 |  |  |  |
|---|----|--|--|--|

|    |  |  |  |  |
|----|--|--|--|--|
| 53 |  |  |  |  |
|----|--|--|--|--|

|    |      |        |      |        |
|----|------|--------|------|--------|
| TP | 6.42 | 985.55 | 2.81 | 979.13 |
|----|------|--------|------|--------|

|       |   |     |    |     |
|-------|---|-----|----|-----|
| 53+31 | ± | ENT | L+ | Bit |
|-------|---|-----|----|-----|

30 DEC 1987

L+

L

R+

|      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 19.1 | 11.6 | 11.5 | 15.7 | 15.6 | 15.2 | 15.7 | 15.6 | 16.4 | 15.6 | 13.3 | 15.2 |
| 12.2 | 10.3 | 10.4 | 6.2  | 6.3  | 6.7  | 6.2  | 6.3  | 5.5  | 6.3  | 8.6  | 6.7  |
| 58   | 52   | 34   | 27   | 23   | 15   |      | 15   | 23   | 36   | 49   | 70   |

|      |      |      |      |      |       |      |      |      |      |      |
|------|------|------|------|------|-------|------|------|------|------|------|
| 10.8 | 11.0 | 16.9 | 11.1 | 16.5 | 16.86 | 16.8 | 17.8 | 14.8 | 15.1 | 15.9 |
| 11.1 | 10.9 | 5.0  | 4.8  | 5.4  | 5.08  | 5.1  | 4.1  | 7.1  | 6.8  | 6.0  |
| 59   | 44   | 33   | 20   | 14   |       | 17   | 23   | 37   | 55   | 70   |

|      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|
| 11.6 | 11.6 | 11.5 | 18.0 | 17.9 | 18.0 | 18.0 | 19.0 | 15.4 | 14.6 | 15.0 |
| 4.3  | 4.4  | 4.4  | 3.9  | 4.0  | 3.9  | 3.9  | 2.9  | 6.5  | 7.3  | 6.9  |
| 71   | 48   | 29   | 20   | 13   |      | 18   | 25   | 36   | 57   | 70   |

|      |      |      |      |       |      |      |      |      |      |
|------|------|------|------|-------|------|------|------|------|------|
| 81.5 | 81.2 | 80.9 | 79.1 | 79.13 | 79.0 | 80.1 | 79.3 | 78.5 | 78.7 |
| 0.4  | 0.7  | 1.0  | 2.8  | 2.81  | 2.9  | 1.8  | 2.6  | 3.4  | 3.2  |
| 66   | 43   | 27   | 12   |       | 18   | 26   | 46   | 58   | 69   |

Ho. ✓

E STA 53

|      |      |      |      |      |
|------|------|------|------|------|
| 81.9 | 81.5 | 80.4 | 79.5 | 79.6 |
| 3.7  | 4.1  | 5.2  | 6.1  | 6.0  |
| 70   | 53   | 33   | 14   |      |

✓

Sta

+

K

-

Elev

985.55

53+50

BM

2.41

984.41

3.51

982.04

982.00

54+00

+03

E Ditch Lt  $\frac{1}{2}$  Rt

+15

Shoulder Lt  $\frac{1}{2}$  Rt

+24

E Co. Rd D



30 DEC 1969

L+

E

R+

| 81.8 | 81.5 | 80.8 | 80.2 | 79.7 | 79.7 | 79.6 | 80.5 | 80.2 | 82.07 |
|------|------|------|------|------|------|------|------|------|-------|
| 3.8  | 4.1  | 4.8  | 5.4  | 5.9  | 5.9  | 6.0  | 5.1  | 4.7  | 3.48  |
| 70   | 54   | 34   | 20   | 13   | ✓    | 16   | 25   | 39   | 62    |

TOP HYD SW COR CO. RD D

81.18

4.37

| 78.0 | 78.7 | 77.92 | 79.5 | 80.1 | 80.2 | 79.26 | 79.1 | 79.4 |
|------|------|-------|------|------|------|-------|------|------|
| 6.4  | 5.7  | 6.49  | 4.9  | 4.3  | 4.2  | 5.15  | 5.3  | 5.0  |
| 62   | 39   | 25    | 14   | ✓    | 22   | 31    | 41   | 56   |

| 78.4 | 79.0 | 79.5 | 79.8 | 80.4 | 80.6 | 80.1 | 81.2 | 81.5 |
|------|------|------|------|------|------|------|------|------|
| 6.0  | 5.4  | 4.9  | 4.6  | 4.0  | 3.8  | 3.7  | 3.2  | 2.9  |
| 100  | 63   | 38   | 13   | ✓    | 23   | 43   | 67   | 100  |

| 78.8 | 79.0 | 79.7 | 80.2 | 80.4 | 80.8 | 81.2 | 81.6 | 81.9 |
|------|------|------|------|------|------|------|------|------|
| 5.6  | 5.4  | 4.7  | 4.2  | 4.0  | 3.6  | 3.2  | 2.8  | 2.5  |
| 100  | 77   | 41   | 14   | ✓    | 24   | 51   | 75   | 100  |

STA

+

T

-

ELEV

984.48

544 36

Shoulder

Lt ; Rt

BM

441

980.00

980.00

30 DEC 1969

Lt

E

Rt

|     |      |      |      |      |      |      |      |      |
|-----|------|------|------|------|------|------|------|------|
| 8.1 | 18.8 | 19.2 | 19.1 | 20.2 | 20.1 | 21.1 | 21.1 | 21.1 |
| 1   | 18.8 | 19.2 | 19.1 | 20.2 | 20.1 | 21.1 | 21.1 | 21.1 |
| 6.0 | 5.6  | 5.2  | 4.7  | 4.2  | 3.7  | 3.3  | 3.0  | 2.7  |
| 100 | 75   | 51   | 25   |      | 30   | 53   | 81   | 100  |

TOP MONT & D. McKnight

