

9
NORFOLK COUNTY

ENGINEERS DEPT.

No. 609

F.B. 609

COUNTY OF NORFOLK
ENGINEERING DEPT.
649 HIGH STREET
DEDHAM, MA 02026

781-461-6128

Inst.

Tape

Wthr & Temp.

Date

Crs.

1

2 * TOPO MEDWAY BRANCH RD.
Inst. Tape Wthr & Temp Date Crew

HC070102A

INST SET ON SPK (100)

EL=2498 NB584/105

B.S. ON SPK $\boxed{102}$ EL = 209.95

PG 115 H.I. 5,12 PT 1000 → 1053

CHECKED OUT ON B.S SPK 102

#C07070102B

INST SET ON SPK 100

EL = 214.98 NBS84/105

B.S. ON SPK 102 EL = 209.95

HS.17 PT 1054-1142

CHECKED OUT ON B.S. 5PK(10Z) OK

HCON070202A

INST SET ON 5 + N(200) PGS

EL-212.346 B.S. 07 Spk

102] $584/114 \text{ EL} = 209.95$

HI495 PT 1143-1217

CHECKED OUT ON BS-SPK 102

HCON07020213

INST SET ON SPK (101)

EL- 21143 NB 584114

B.S. on SPK 102, EL = 209.95

HT 5.24 PT #1218-1264

CHECKED OUT ON BS SPK 102

NORFOLK F.B. 609 3

inst.	Tape	Wthr & Temp	Date	Orgn
NIKON	REF	P.C. 88°	7-1-02	PRISCO
		21/1	1085	Genitt

most
NIKON

Tape
REF

Wthr & Temp
D.C. 84

Date _____

~~Open~~
PRISCO
Geniti

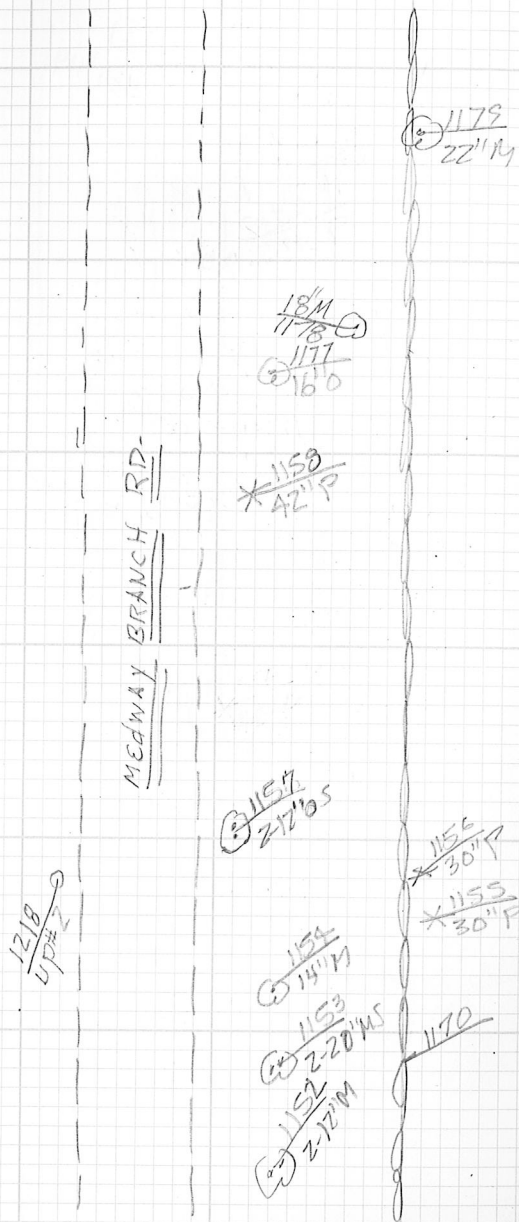
[illegible]

7th 5
Crew
PRISCO
CROWLEY
GENTILE

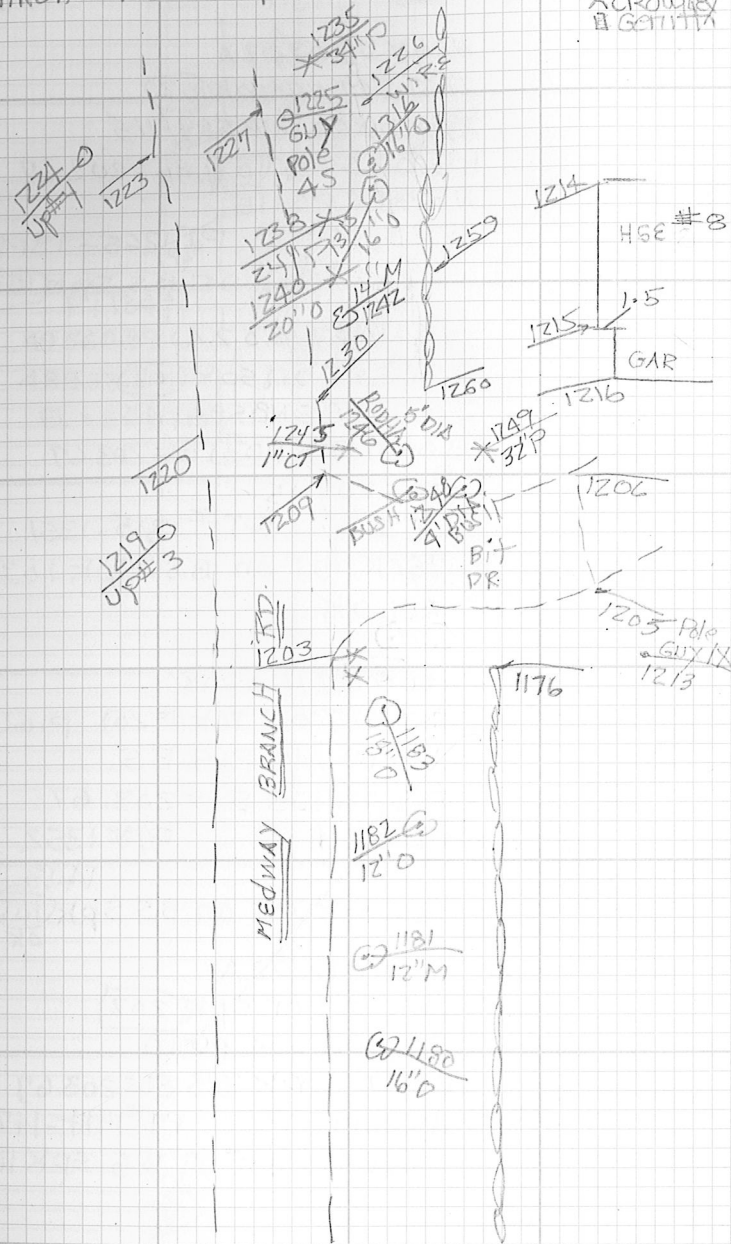
medway branch RD

BOARDMAN ST

6 TOPO Medway BRANCH
Inst Tape Wthr & Temp Date Crew
F.B. 609



RD NORFOLK J 7
Inst Tape Wthr & Temp Date Crew
NIKON REF P.C. 90° 7-2-02 PRISCO
CROWLEY
GATTI



8 ~~Topo~~ MEDWAY BRANCH
 Inst Tape Wthr & Temp Date Crew
 F.B. 609

HCON 070302A
 INST SET ON SPK (102)
 EL=209.95 NB 584/115
 BS ON SPK (103) EL=203.67
 NB 584 PG 115
 H I 5.34 PT 1265-1314
 CHECKED OUT ON B.S. SPK (103)

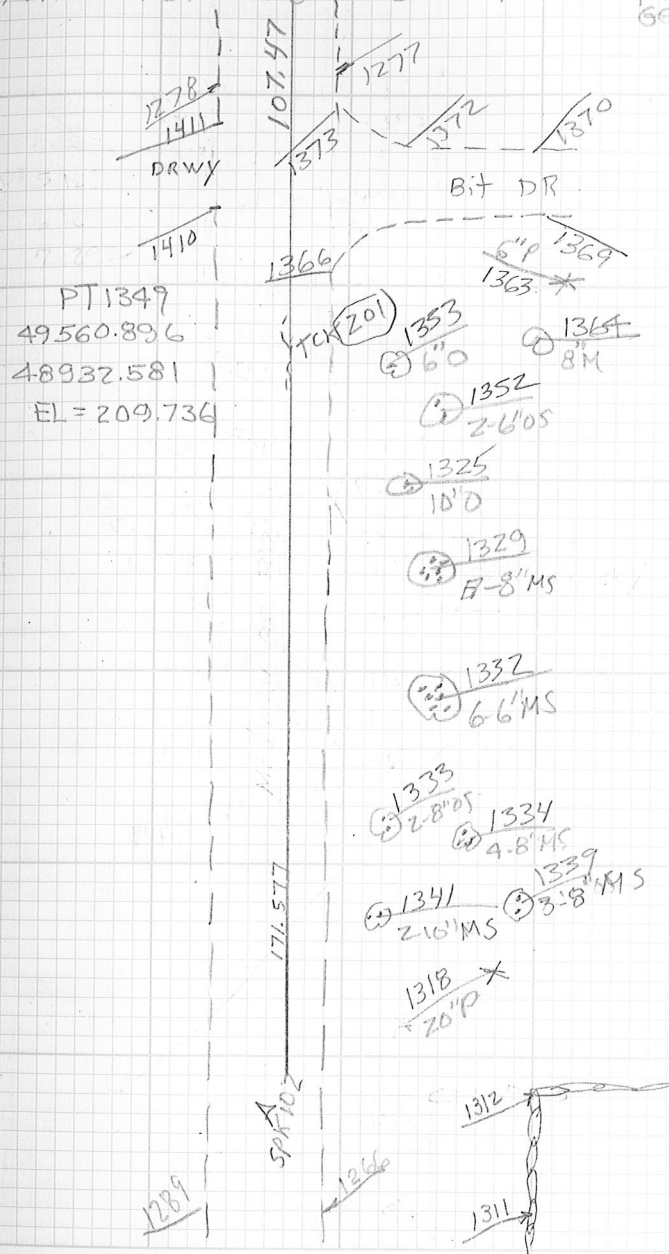
HCON 071502A
 INST SET ON SPK (102)
 EL=209.95 NB 584/115
 B.S. ON SPK (103) EL=203.67
 NB 584/115
 H I 5.11 PT# 1315-1351
 CHECK OUT ON B.S. SPK 103
 CALLOK

HCON 071502B
 INST SET ON TCK#201 P.O.L
 EL=209.736 PG 9 B.S.
 ON SPK 103 EL=203.67
 H I 5.14 PT# 1352

CHECKED OUT ON B.S. SPK (103)
 OK

HCON 071602A
 INST SET ON SPK (202)
 EL=208.684 PG 10
 BS ON SPK 103 EL=203.67
 H I 5.10 PT# 1414-1479
 CHECKED OUT ON B.S. SPK 103

RD NORFOLK
 inst. Tape Wthr & Temp Date Crew
 NIKON REF P.L. 86° 7-15-02 PRISCO
 GENTLE



F.B. 609

DR. WY

$\frac{1290}{1290}$

$$\begin{array}{r} 4''B \\ \hline 139B \end{array}$$

$$\begin{array}{r} *6''P \\ \hline 139P \\ \hline 1400 \\ \hline 2-10''DS \end{array}$$

$$\begin{array}{r} 1523 \\ \times 610 \\ \hline \end{array}$$

PT 203
EL=207.964
49677.921
48753.639

$$\begin{array}{r} 1462 \\ 12 \overline{) 1462} \\ \underline{12} \\ 26 \\ 24 \\ \underline{2} \\ 20 \\ 18 \\ \underline{2} \end{array}$$

12 ^{Topo} Medway BRANCH
 Inst Tape Wthr & Temp Date Crew
 F.B. 609

12920
 1/13/17

MEDWAY BRANCH RD

1571
 1569
 GUY WIRE
 7.5
 Guy Pole
 1553 1568
 10" P
 1552
 8" P
 1550
 9-4" M S
 1549
 2-8" OTS
 1548
 2-8" PS
 8 MT 4"
 1547
 1545
 2-4" M S
 1544
 4" P
 1543
 8" P
 1542
 10" P
 1536
 4-4" M S
 1533
 12" P
 1532
 2-12" O
 1529
 2-10" P
 1530
 10" P
 1531
 10" P

RD NORFOLK
 Inst Tape Wthr & Temp Date Crew
 NIKON REF PC 80F 7-17-02 PRISCO Genetti 13

EL = 204.055
 49847.224
 48494.813
 WRONG
 TARGET HT

113.16
 134.71

BOT SLOPE OF WOODS

1631
 2-8" OS
 1628
 16" O
 1632
 12" O
 1629
 8" O
 1626
 4-8 MTS
 1611
 8" O
 1607
 8" P
 1601
 6" P
 1603
 10" O
 1610
 2-10 OTS
 1601
 8-6" OS

EL = 205.94
 49773.468
 48607.542

204.5
 50%
 A

1582

DR WY

174.567

1580
 10" O
 1589
 14" O
 1571
 1576
 1572
 LHE 4'
 1574
 1573
 1571
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 1700

14 W TOPO MEDWAY BRANCH
 Inst Tape Wthr & Temp Date Crew
 F.B. 609

148.88

TCK 206

17" M
 1682 / 1683

1671 / 8" O
 1670 / 4" O

1669 / 6" O

1672 / 12" O

1668 / 8" O

1662 / 8" O

1660 / 12" O

14" O
 1661

1651 / 14" O

1650 / 4" O

12" O

1647 / 8" O

1642 / 16" P

1643 / 14" O

1641 / 12" O

1640 / 12" O
 1639 / 12" O
 1637

113.16

BOT SLOPE EDGE OF WOODS

TCK 206
 EL = 203.924
 49909.155
 48400.102

RD NORFOLK
 Inst Tape Wthr & Temp Date Crew

ASPK
 103

TUCKER RD

1930 / 16" O
 1929 / 8" O

1928 / 2-6" M

1927 / 12" O
 1926 / 16" O

6" P

1924 / 12" O
 1925 / 12" P

1923 / 2-10" O

B.S.

4" P
 1690

1683 / 6" M

1685 / 16" O

WOODS

16
inst TOPO
Tape

F.B. 609

BRANCH RD - TUCKER
Wthr & Temp Date Crew

Poles 12 1806
13 1807
14 1808

ETW 1723
20.7
A

PT#2001

TCK 208

49865.785
48377.481
Elev 198279

9 GUYWIRE

2457
OUT#10 *2456
24" P

ATCK 208

WOODS

CONT'D
PG 32

RD

inst

NIKON

Tape

REF

MEDWAY

Wthr & Temp

PC 900

Date

7-18-02

Crew

PRISCO

GON HHI

1724 SPEED
SIGN

1804 2-12" OS

1895
2-8" MS
1896
12" P

1897
12" D
1898
12" D
1899
12" D

WBAT 1826
1827
END 1828

WBAT 1823
1824
END 1825

1915 *
40" P
1916 *
30" P
1917 *
36" P

1795
1796
1797
WG

TUCKER RD

1794
UP#10
1793
1791

GUYWIRE
1794
1793
1792

1815
4-6" MS
1816
4-8" MS

1946
14" D

WOODS

18 Topo Medway BRANCH
inst Tape Wthr & Temp Date Crew
F.B. 609

HCON 071602 B
INST SET ON TCK 203
EL=207.96 PG 11
B.S. ON SPK 103
EL=203.67 NB584/115
HI 5.20 PT#1486-1541
CHECKED OUT ON BS SPK 103
OK

HCON 071702 A
INST SET ON SPK 204 PG 13
EL=205.94 BS ON SPK
(103) 584/115 EL=203.67
HI 5.06 PT#1542-1625
CHECKED OUT ON BS SPK
(103)

HCON 071702 B → C
INST SET ON TCK 205
EL=204.055 PG 13
B.S. ON SPK 103 EL=203.67
HI 5.16 PT 1626-1667
CHECK OUT ON BS 103 OK

HCON 071802 A
INST SET ON TOPO TCK 206
EL=203.924 PG 14
B.S. ON SPK 103 EL=203.67
HI 5.13 PT#1668-1694
CHECKED OUT ON BS SPK 103

RD NORFOLK 19
inst Tape Wthr & Temp Date Crew

HCON 071802 B
INST SET ON SPK (103)
EL=203.67 BS ON
SPK (207) EL=198.95 NB584/116
HI 5.18 PT#1695-1790
CHECKED OUT ON B.S. SPK 207
OK

HCON 071902 A
INST SET ON SPK 103
EL=203.67 NB584/115
B.S. ON SPK 207
EL=198.95 NB584/116
HI 5.17 PT#1791-1901
CHECKED OUT ON BS
SPK 207 OK

HCON 071902 B
INST SET ON SPK 103
EL=203.67 BS ON
SPK 207 EL=198.95
HI 5.15 1902-1957
CHECKED OUT ON BS SPK 207
OK

HCON 072302 A
INST SET ON SPK 103
EL=203.67 BS ON SPK
207 EL=198.95 NB584/116
HI 5.16 PT#1958-2002
CHECKED OUT ON BS SPK (207)
OK

20 ~~inst~~ TAPES MEDWAY BRANCH 4
Tape Wthr & Temp Date Crew

F.B. 609

HCON072302A
INST SET ON SPK (103)
EL=203.67
BS ON SPK (207) EL=198.95
HI 5.06 PT# 2063-
CHECKED OUT ON BS SPK (103)

HCON072302B
INST SET ON TCK (209)
EL=202.68 PG 21
BS ON SPK 207 EL=198.95
HI 5.16 PT# 2004
2045
CHECKED OUT ON BS SPK 103

HCON072302C
INST SET ON SPK (210) PG 21
EL=201.62 BS ON SPK (207)
EL=198.95
HI 5.05 PT# 2046
2054
CHECKED OUT ON BS SPK 207

HCON072302D
INST SET ON SPK 210
EL=201.62 BS ON SPK
207 EL=198.95
HI 5.08 2055-2078
CHECKED OUT ON BS SPK 207

RD NORFOLK 21
inst Tape Wthr & Temp Date Crew

(210)
EL=201.62
50192.448
47983.015

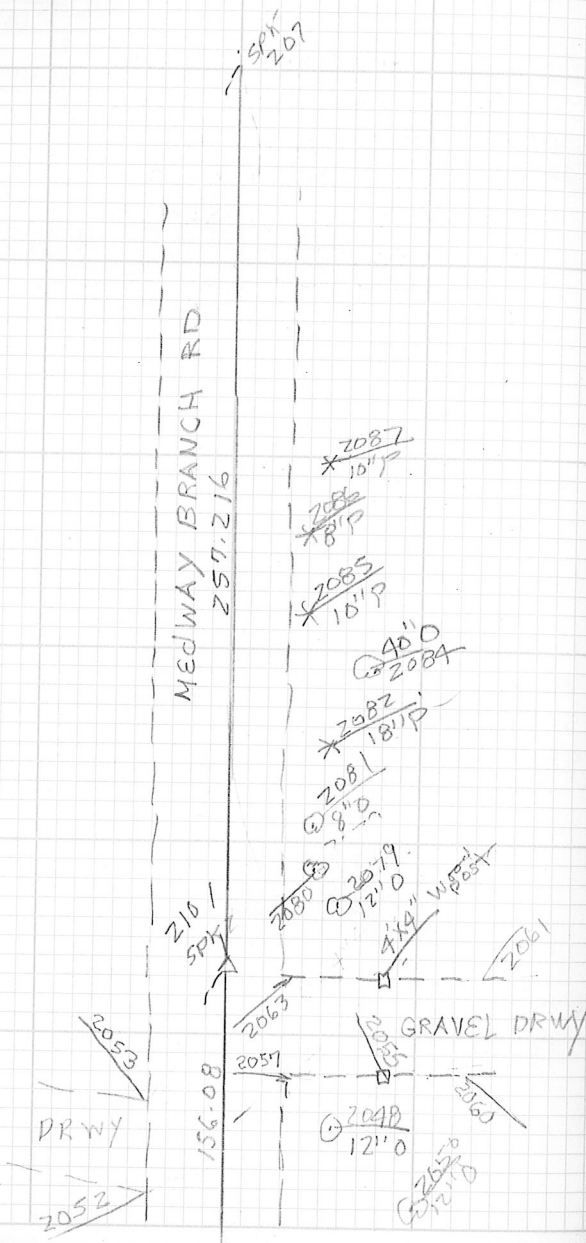
EL=202.68
50103.802
48111.487

7-23-02 PRISCO
GETT
*2051
18" P
2041
14" O
SPK (210)
*12" P
2037
*2035
10" P
*12" P
2030
*2026
12" P
15" O
2023
TCK (209)
*2017
12" O
*2015
16" P
*2013
10" P
*14" P
2012
*14" O
2014
*2010
12" P
*2008
16" P
*2007
10" O
*3-10.05
2006
SPK (103)

22 ~~inst~~ ~~TOPO~~
Tape
F.B. 609

MEDWAY
Wthr & Temp

BRANCH
Date Crew



RD
inst
NIKON

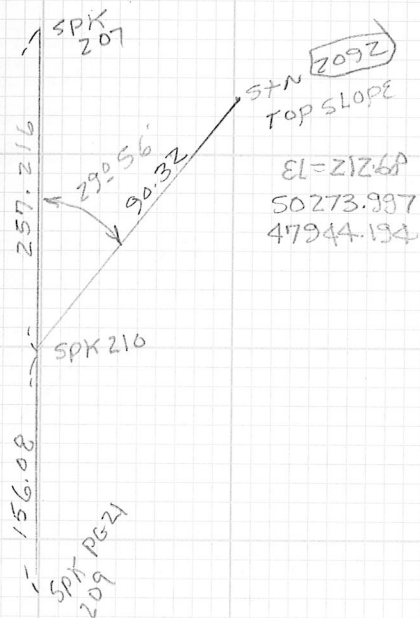
Tape
REF

MEDWAY
Wthr & Temp
P.C. 75

Date
7-25-02

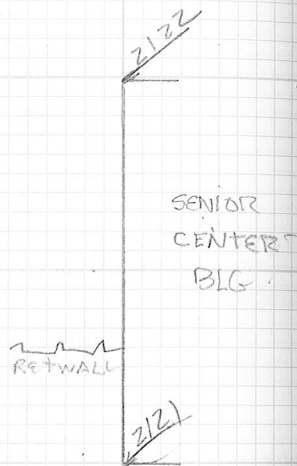
IV 23
Crew
PRISCO
(GRIFF)

HCON 072502A
INST SET ON SPK 210
EL=201.62 PG 21
B.S. ON SPK 207
EL=198.95 584 | 117
HI 5.12 PT# 2079 - 2093
CHECKED OUT ON BS SPK 207 OK



24 TOPO MERWAY BRANCH
 inst Tape Wthr & Temp Date Crew
 F.B. 609

HCON 072502B
 INST SET ON STN #2092
 EL=212.68 PG 23
 BS ON SPK 210
 EL=201.62 HI 4.97
 PT# 2094-2123
 CHECKED OUT ON BS
 SPK 210 OK



RD NORFOLK IV 2-5
 inst Tape Wthr & Temp Date Crew
 NIKON REF P.C. 75° 7-25-02 PRISCO Gentry

HCON 072502C
 INST SET ON SPK 207
 EL=198.95 BS ON
 SPK 103 EL=203.67
 HI 5.17 PT# 2134
 2236

CHECKED OUT ON BS SPK 103

HCON 072602A
 INST SET ON SPK 207 EL=198.95
 BS ON SPK 211 EL=196.568
 PG 27 HI 5.19 PT# 2236-2273
 CHECKED OUT ON BS SPK 211 OK

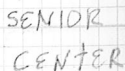
HCON 072602B
 INST SET ON SPK 211 EL=196.568
 BS ON SPK 207 EL=198.95
 HI 5.08 PT# 2274-2291
 CHECKED OUT ON SPK 207 OK

HCON 072602C
 INST SET ON TCK 212
 EL=195.46 PG 27
 BS ON SPK 215 EL=191.59
 NB 584/117 HI 5.14 #2292
 2310
 CHECKED OUT ON BS SPK 215
 OK

HCON 072602D
 INST SET ON TOPOTCK 213
 EL=193.69 PG 28 BS ON
 SPK 215 EL=191.59
 HI 5.04 PT 2311-2324
 CHECKED OUT ON BS SPK 215

305-00-19

F.B. 609



212
50513.298
47521.769
EL-19546

EL 196.568
50463.808
47592.434

22360
49#16

~~2229~~
WCC

218.38

TCK₂₁₂

2017

SPK 211

DRW

DR Wy

220°

~~2229~~
WCC

218.38

$$\begin{array}{r} 2786 \\ \times 811P \\ \hline \end{array}$$

$$\begin{array}{r} 2225 \\ \times 611P \\ \hline \end{array}$$
$$\begin{array}{r} 2276 \\ 6 \overline{) 6110} \end{array} \quad \begin{array}{r} 2278 \\ 8 \overline{) 8110} \end{array}$$

2275
6"0

2274
4-6" MS

① $\frac{2254}{2-8''MS}$

2253
610

28. TOPO
inst. Tape

MEDWAY BRANCH
Wthr & Temp Date Crew

F.B. 609

584/115 ↑ SPK 215 EL=191.59
50661.775
47308.764

speed
516.1
2309

145.45

2292 11017
TCK 213 2308

EL=193.69
50578.358
47428.871

MEDWAY BR. RD

113.41

2322
16"0

2315
2-6" P
2316
10"0
2318

*2305
12" P

*2301
8" P

TCK 212

86.27

WOODS

RD
inst
NIKON

Tape
REF

NORFOLK
Wthr & Temp Date
P.C. 85 7-29-82

29
Crew
PRISD
Gentry

HCON072902A

INST SET ON SPK 215

EL=191.59 NB 584/117

B.S. ON SPK 207 EL=198.95

HI 5.21 PT# 2324-2420

CHECKED OUT ON B.S. SPK 207 OK

HCON072902B

INST SET ON SPK 215 EL=191.59

B.S. ON SPK 207 EL=198.95

HI 5.21 PT 2421-2455

CHECKED OUT ON B.S. SPK 207

HCON073002A

INST SET ON TCK 208

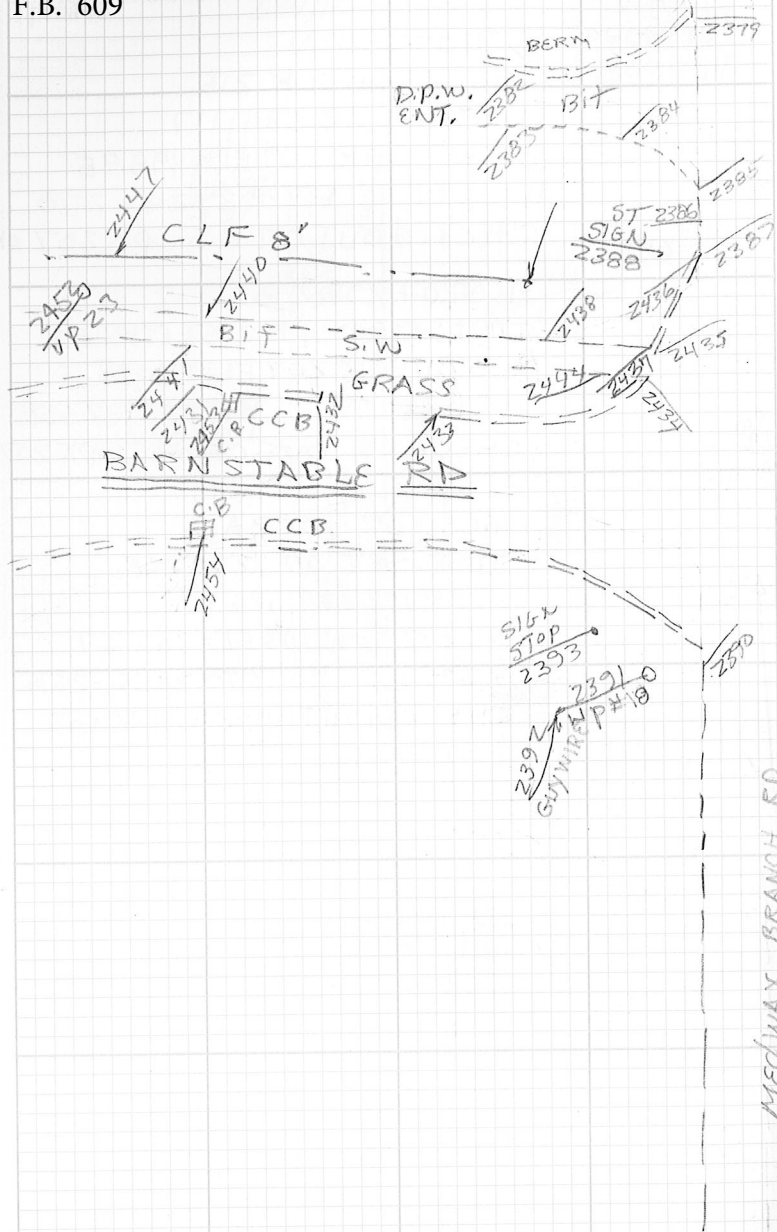
ELEV 198.279 PG 16

B.S. ON SPK 103 EL=203.67

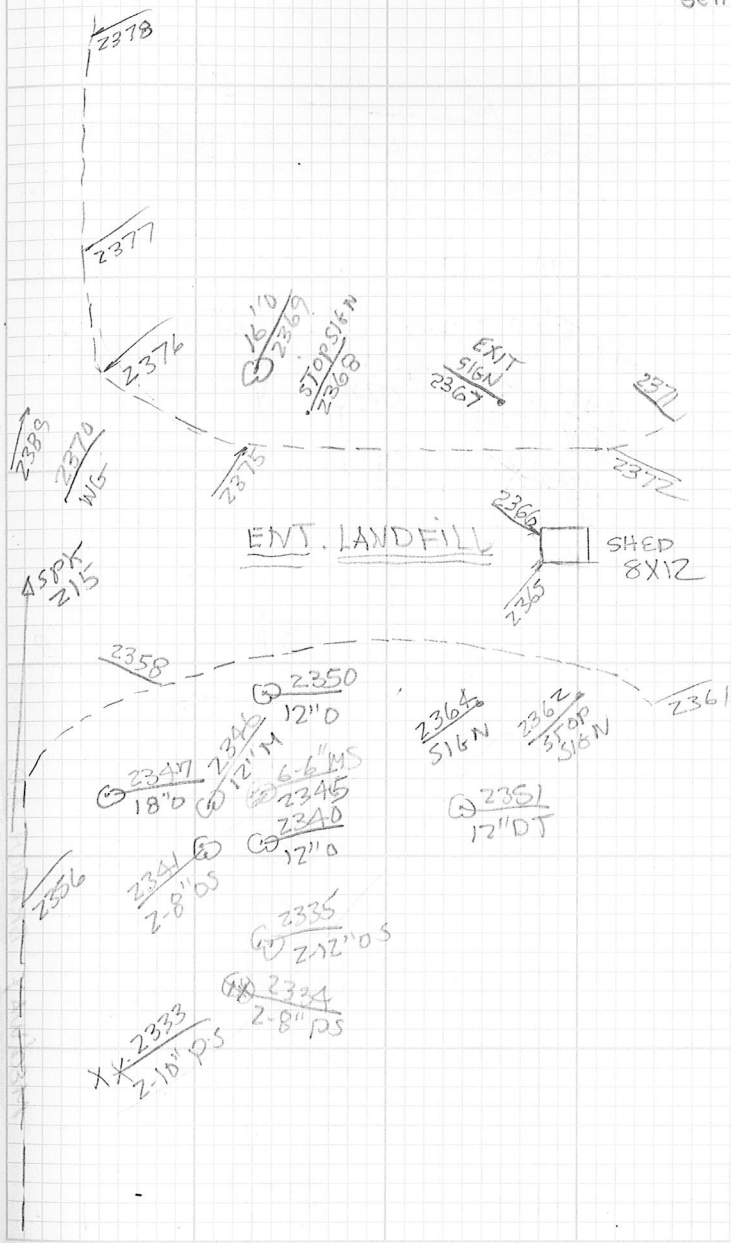
HI 5.13 PT# 2456-2516

CHECKED OUT ON B.S. SPK 103

30 TOPO MEDWAY BRANCH
inst. Tape Wthr & Temp Date Crew
F.B. 609



RD inst. Tape NORFOLK
Nikon REF Wthr & Temp
P.C. 85° Date 7-29-02 Crew PRISCO Genitt



32

TOPO

TUCKER RD

Inst

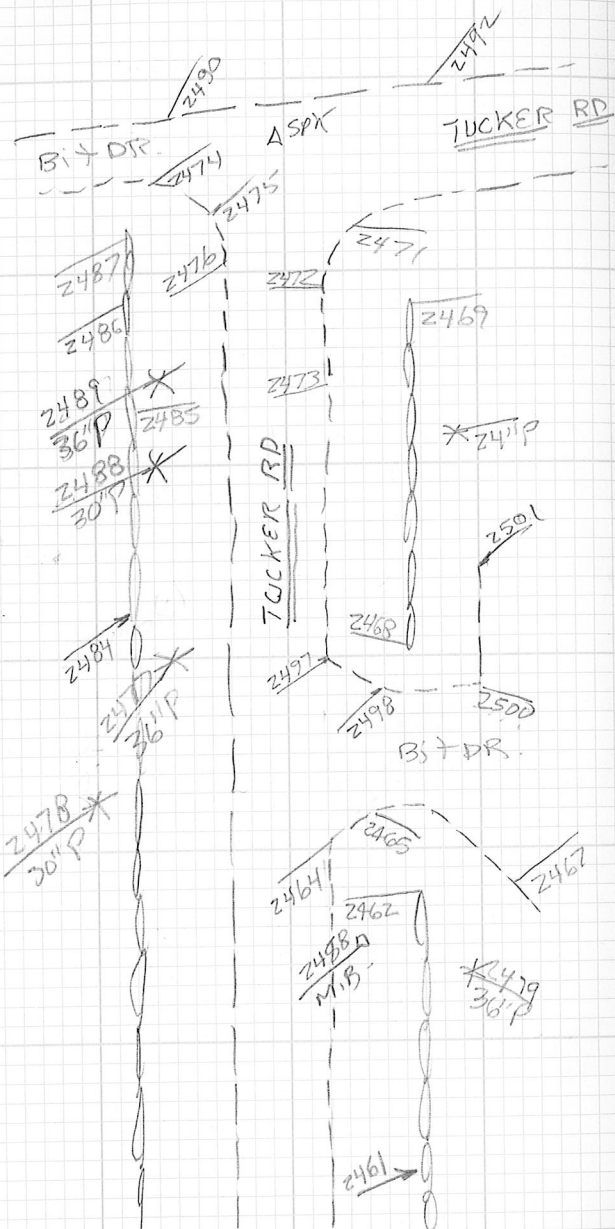
Tape

Wthr & Temp

Date

Crew

F.B. 609



33

NORFOLK

Inst

Tape

Wthr & Temp

Date

Crew

NIKON

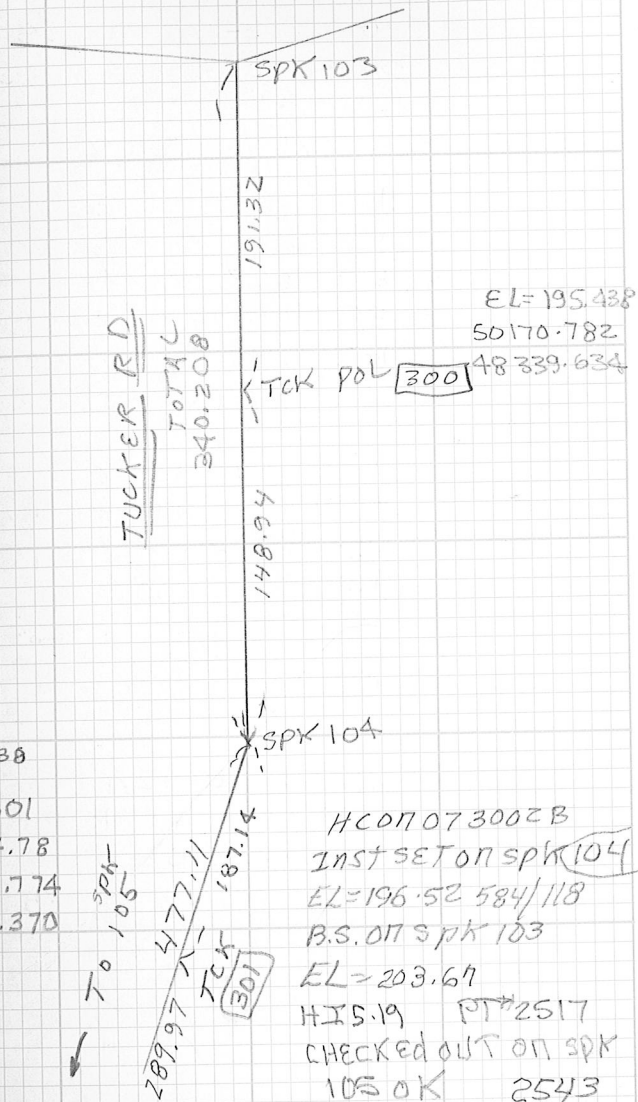
REF

P.C. 88

7-31-02

PRISCO
Gentry

MEDWAY BRANCH RD



34 Topo TUCKER
 Inst Tape Wthr & Temp Date Crew
 F.B. 609

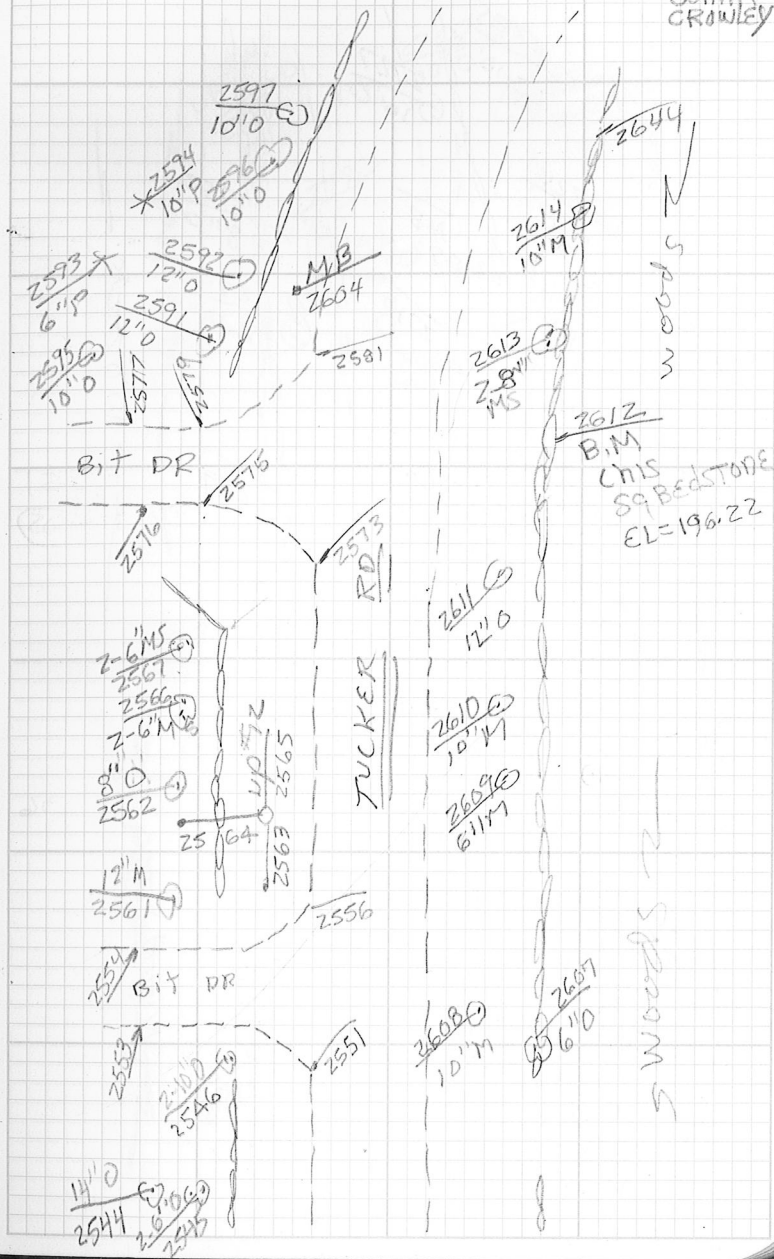
HCON073102A
 INST SET ON Topo TCK 300
 PG 33 EL=195438 B.S.
 ON SPK 103 EL=203.67
 HI 5.34 PT 2544-2637
 CHECKED OUT ON BS SPK 103
 OK

HCON073102B
 INST SET ON SPK 104
 EL=196.52 NB584/118
 BS ON SPK 105 EL=196.75
 HI 5.33 PT 2638-2651
 CHECKED OUT ON B.S. SPK 105

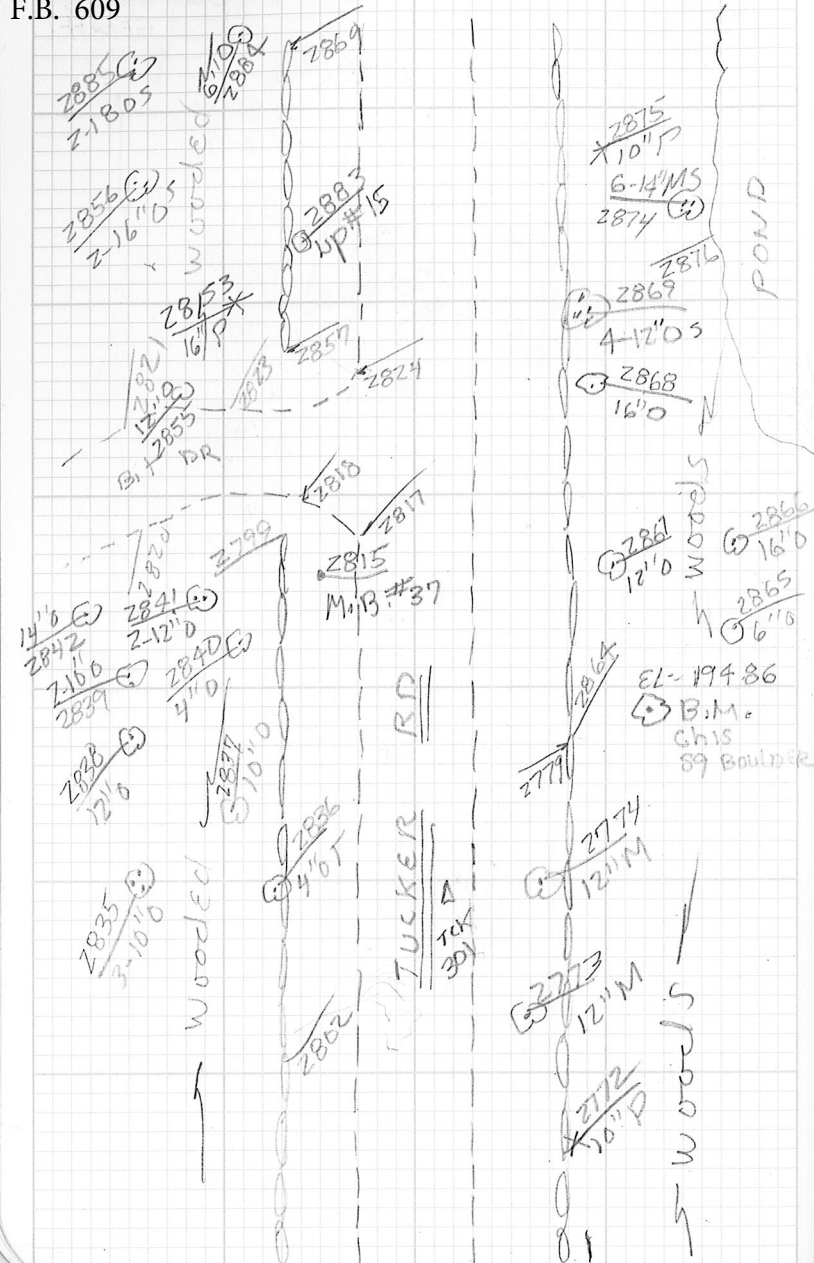
HCON073102C
 INST SET ON SPK 105
 EL=196.75 BS ON SPK
 106 EL=204.07
 HI 5.31 PT# 2652-
 2699
 CHECKED OUT ON BS. SPK 106
 OK

HCON080102A
 INST SET ON SPK 104
 EL=196.52 B.S. ON
 SPK 105 EL=196.75
 HI 5.16 PT 2700-2765
 CHECKED OUT ON B.S.
 SPK 105 OK

RD inst Tape Wthr & Temp Date Crew
 Nikon REF P.C. 88° 7-31-02 PRISCO
 GENTH CROWLEY



38 inst. TOPO Tape Wthr & Temp Date Crew
F.B. 609



RD inst. Tape Wthr & Temp Date Crew
NIKON REF P.C. 90° 8-1-62 PRISCO Genitt

HCON080102B
INST SET ON TCK 301
EL=194.78 PG-33
B.S. ON SPK 105 EL=196.75
HIS.13 PT#2766-2816
CHECKED OUT ON BS SPK 105 OK

HCON080502A
INST SET ON TCK 301
EL=194.78 B.S. ON
SPK 105 EL=196.75
HIS.13 PT#2817-2882
CHECKED OUT ON BS SPK 105 OK

PT 2881
TCK 302
EL 194.795
50510.814
48629.646
H.D. 125.20

SPK 105
9745.105
6742.1
SPK NB584/142
TCK 302
125.20
TCK 301
187.14
SPK 104

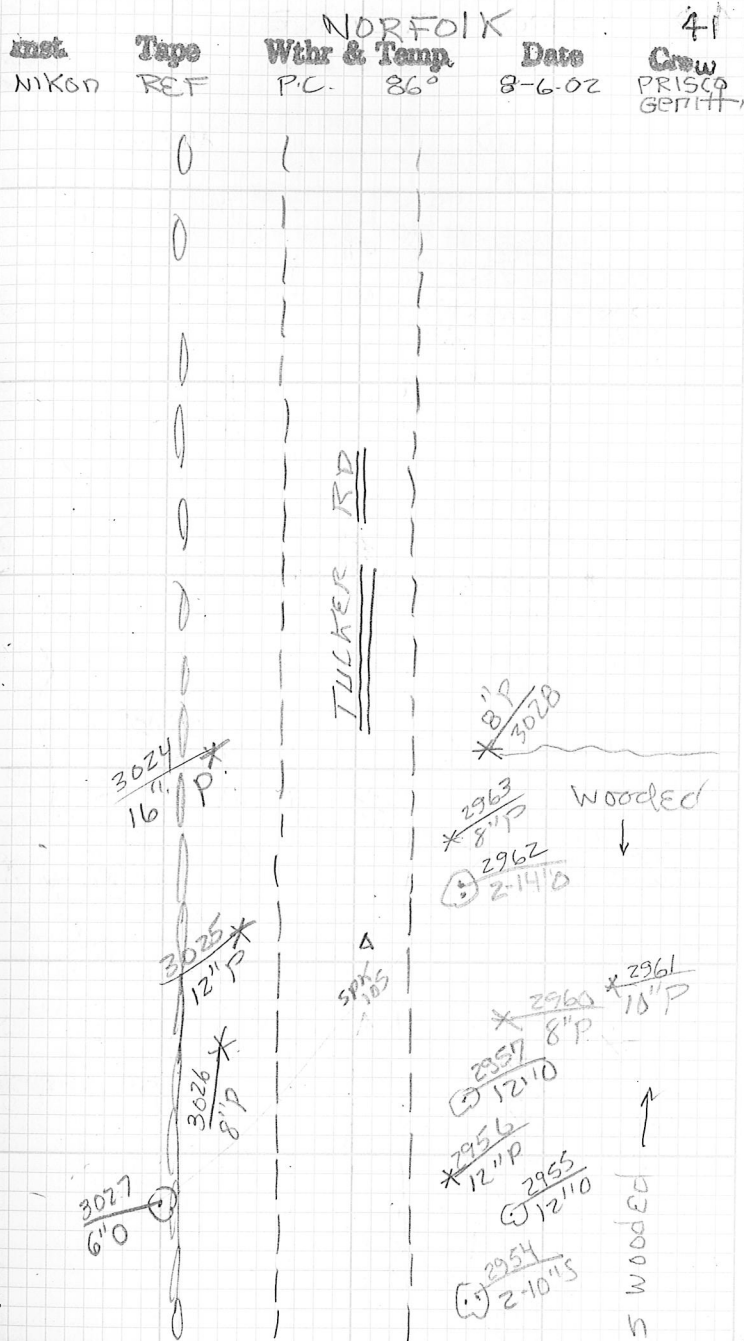
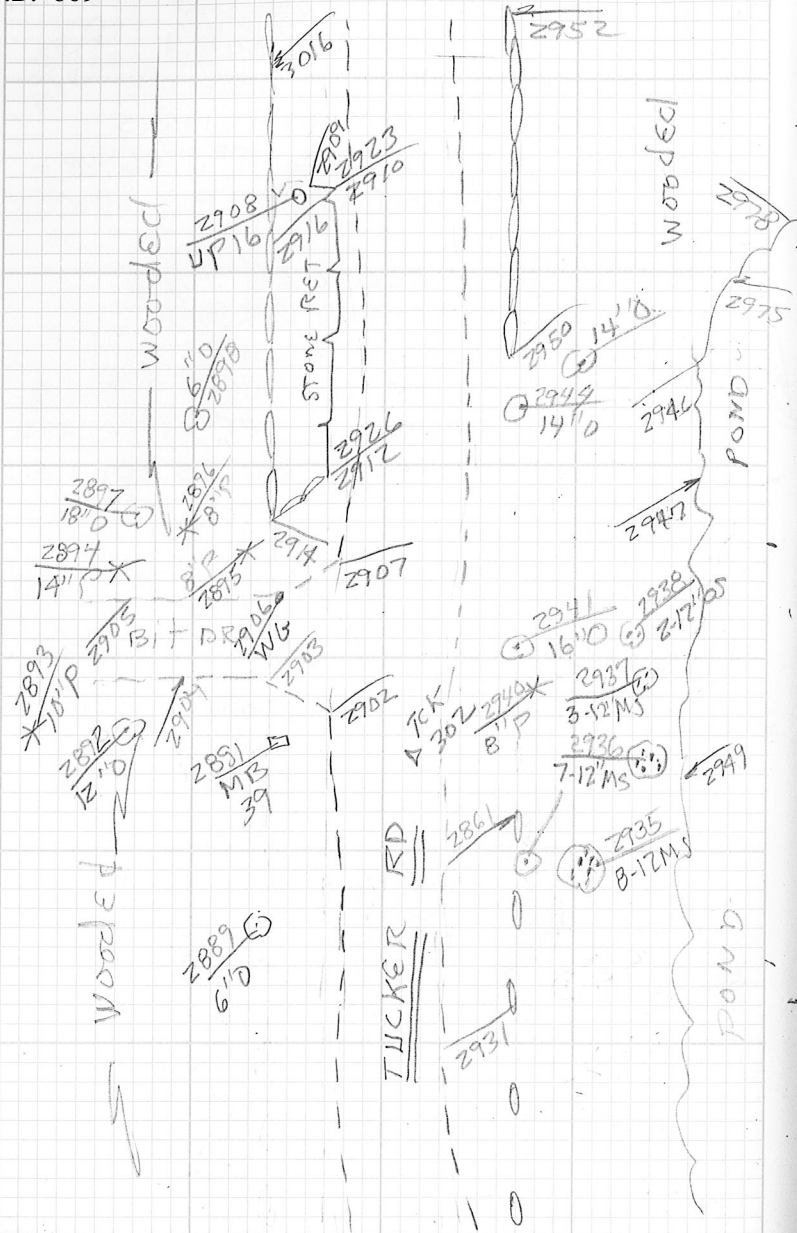
40
inst
F.B. 609

TOPO
Tape

TUCKER
Wthr & Temp

RD
Date

Crew



F.B. 609

Topo Tape

TUCK
Wthr & Temp

Date _____

Crown

RD
inst.
Nikon

Tape
REF

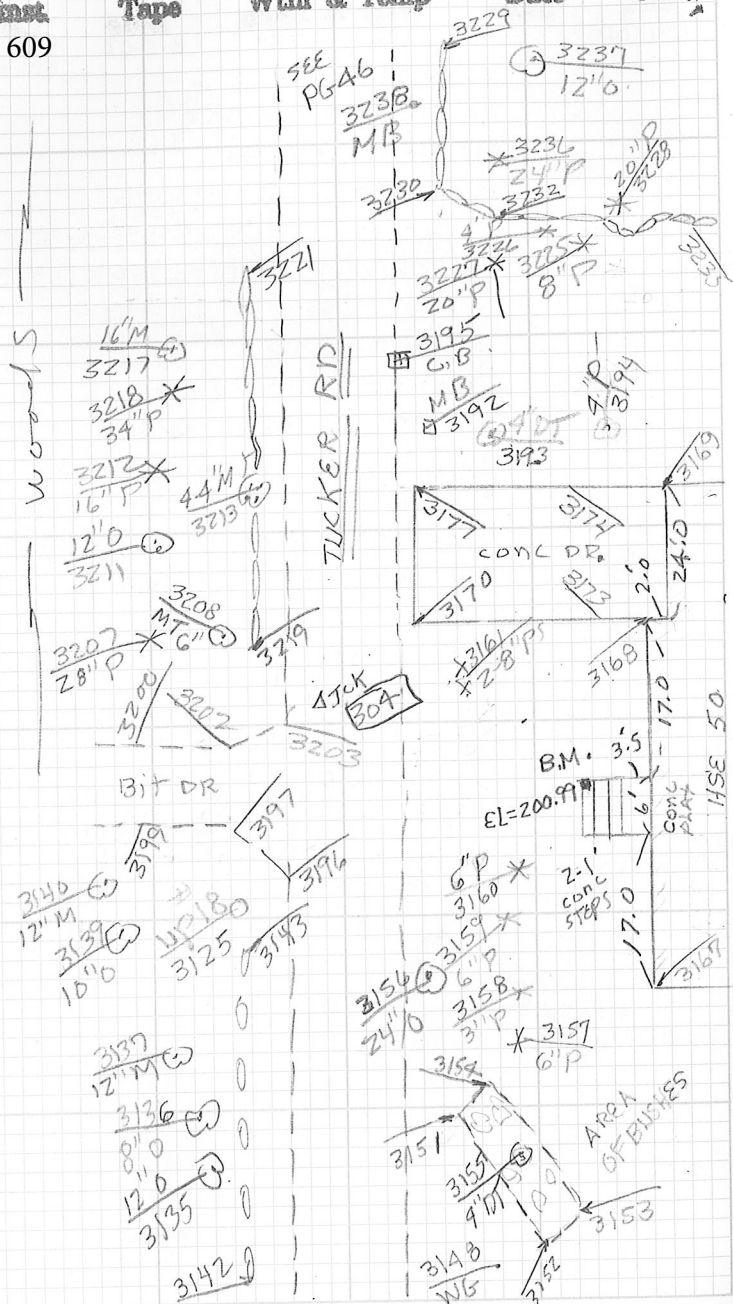
Wthr & Temp
P.C - 78°

Date
8-7-02

Grow
PRISCO
Genitti

NORFOLK

45



HC07080602B

INST SET ON TCK 303

197.98 PG 43

B.S. 07 SPK 105 EL- 196.75

HI 5.17 PT# 3033-3119

CHECKED OUT ON BS.SPK 105 OK

HC6N 080702 A

INST SET ON TCK 303

EL = 197.98 PG 43

B.S. on spK 106 EL=204.67

HI 5.23 PT# 3120-3145

CHECKED OUT ON B.S. SPK 100

HCON080702B

THST SET ON TCK 304

$$EL = 197.5.1 \text{ PG } 4.3$$
$$B.S. 017 SPK 106 EL = 204.07$$

HT 518 PT 3146-3223

CHECKED OUT ON B.S. SPK106

F.B. 609

48 TGP0

ADSL

Tape

Wthr & Temp

Date _____

Crowd

TUCKER

TRD

NORFOLK

49

inst.
MIKON

Tape
REF

Wthr & Temp.	
P.C.	93°

Date _____

Crow

8-13-02 PRISCO
8-19-02 Gentry

CLEVELAND RD

ROCKWOOD RD

TUCKER

AREA OF RECTANGLES

50 inst TOPO TUCKER Date Crew
F.B. 609 Tape Wthr & Temp

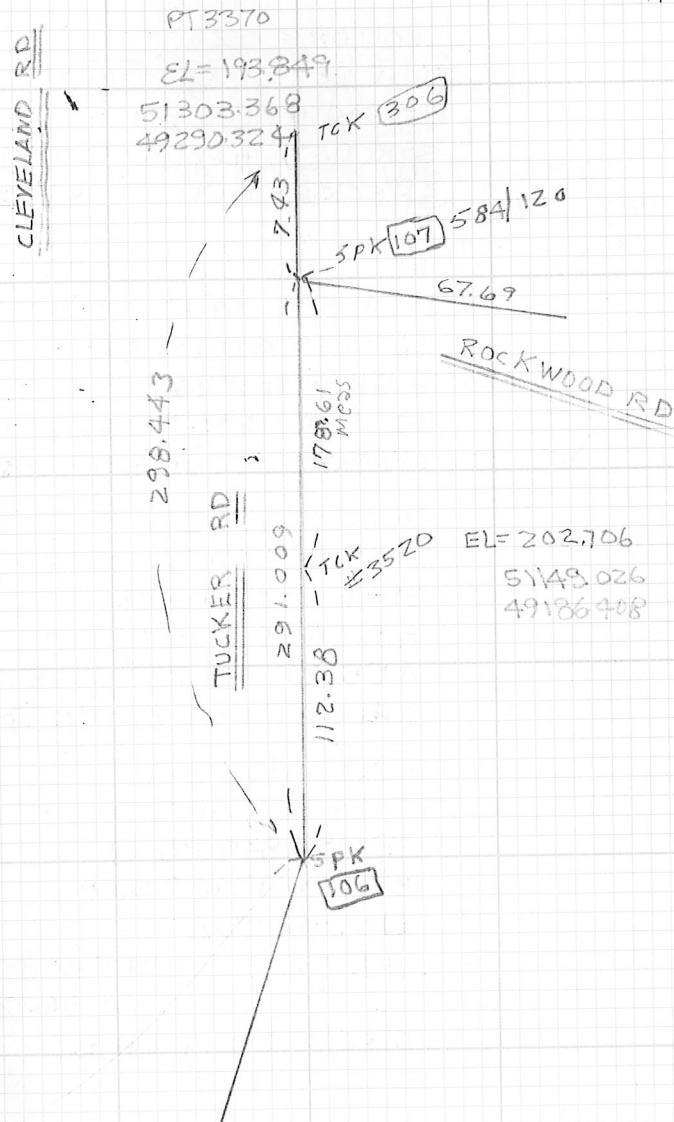
HCON 081202A
INST SET ON I. ROD 305
NB 584/144 B.S. ON SPK
106 EL=204.07
HI 4.90 PT# 3224-3306
CHECKED OUT ON BS SPK 106
CALL OK

HCON 081202B
INST SET ON I. ROD 305
NB 584/144 B.S. ON SPK
106 EL=204.07
HI 5.07 PT 3301-3369
CHECKED OUT ON BS SPK 106

HCON 081302A
INST SET ON SPK 106
EL=204.07 B.S. ON SPK
106 NO ELEV.
HI 5.13 PT# 3370-3424
CHECKED OUT ON BS SPK 106

HCON 081302B
INST SET ON SPK 106
EL=204.07 B.S. ON
SPK 107 NB 584/120
HI 5.18 PT 3425-3480
CHECKED OUT ON BS SPK 106

RD inst NORFOLK 51
NIKON Tape Wthr & Temp Date Crew
P.C. 907 81302 PRISCO
Geniti



52
inst
F.B. 609

Topo
Tape

TUCKER
Wthr & Temp

Date

Crew

HCON081402A
INST SET ON SPK (106)
EL=204.07 B.S. ON
SPK (107) HI 5.16 PT# 3481-3521
CHECKED OUT ON B.S. SPK (107)

HCON081902B
INST SET ON TCK 3520
EL=202.706 PG 51
B.S. ON SPK 107
HI 5.20 PT# 3522-3577
CHECKED OUT ON B.S. SPK 107

HCON081902B
INST SET ON TCK 3520
EL=202.706 PG 51
B.S. ON SPK 107
HI 5.21 PT# 3578-3588
CHECKED OUT ON B.S. SPK (107)

HCON081902C
INST SET ON TCK 306
EL=193.849 PG 51
B.S. ON TCK 3520
EL=202.706
HI 5.25 PT# 3589
3642
CHECKED OUT ON B.S.
TCK 3520 OK

RD
inst

Tape

NORFOLK
Wthr & Temp

Date

Crew

8-21-02

53

HCON082102A
INST SET ON TCK 306
EL=193.849 PG 51
B.S. ON SPK 106 EL=204.07
HI 5.20 PT# 3643-3737
CHECKED OUT ON B.S. SPK
(106) CALLOK
HCON082102B
INST SET ON TCK 306
EL=193.849
B.S. ON SPK 106 EL=204.07
HI 5.15 PT# 3738-3796
CHECKED OUT ON B.S. SPK (106)

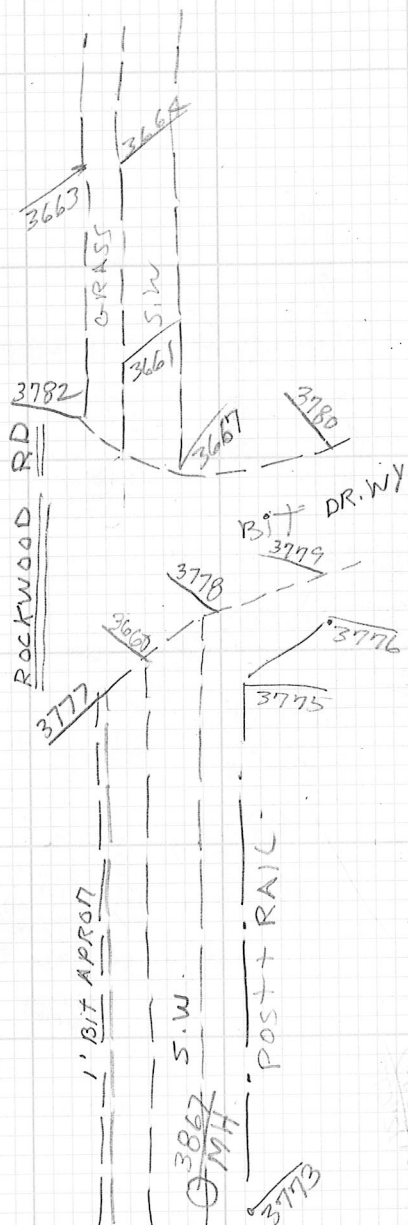
F.B. 609

PRISC
Genitt 1

56 TOPO CLEVELAND RD
 Inst. Tape Wthr & Temp Date Crew
 F.B. 609

3635
 UP #34

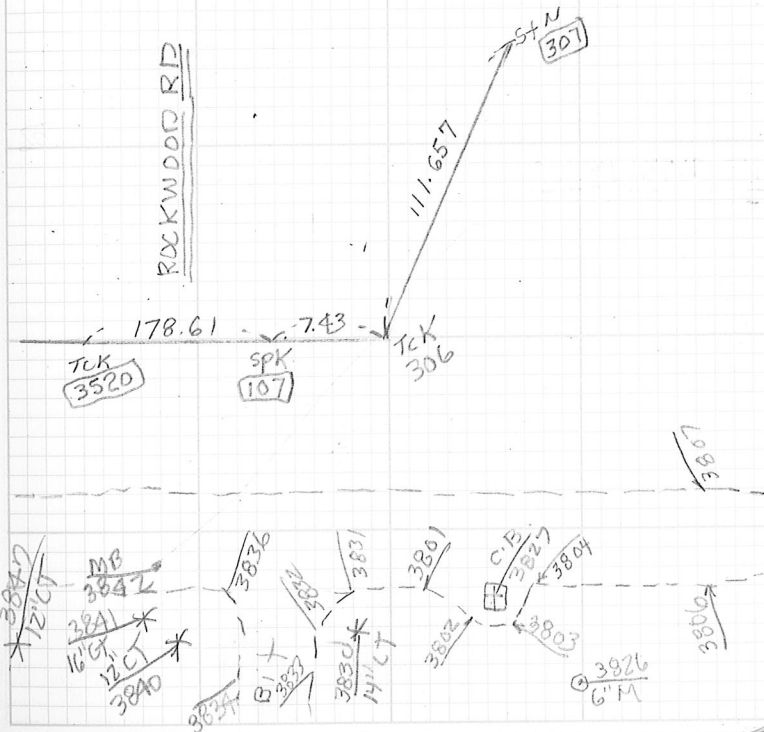
UP #33
 3636



NORFOLK 57
 Inst. Tape Wthr & Temp Date Crew
 TOPCON REF P.C. 78 8-22-02 PRISCO Genetti

HCON 082202A
 INST SET ON STN 307
 EL=191.197 B.S. ON TCK
 306 EL=193.849 LAST#
 HI 5.18 PT #3797-3883
 CHECKED OUT ON B.S. TCK 306

EL=191.197
 51382.421
 49211.470



58

inst

Tape

Wthr & Temp

Date

Crew

59

inst

Tape

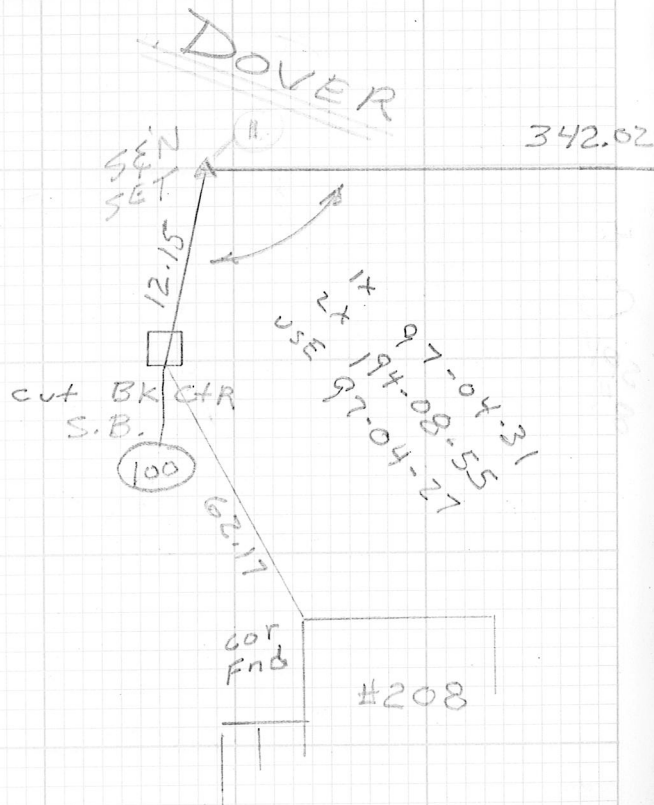
Wthr & Temp

Date

Crew

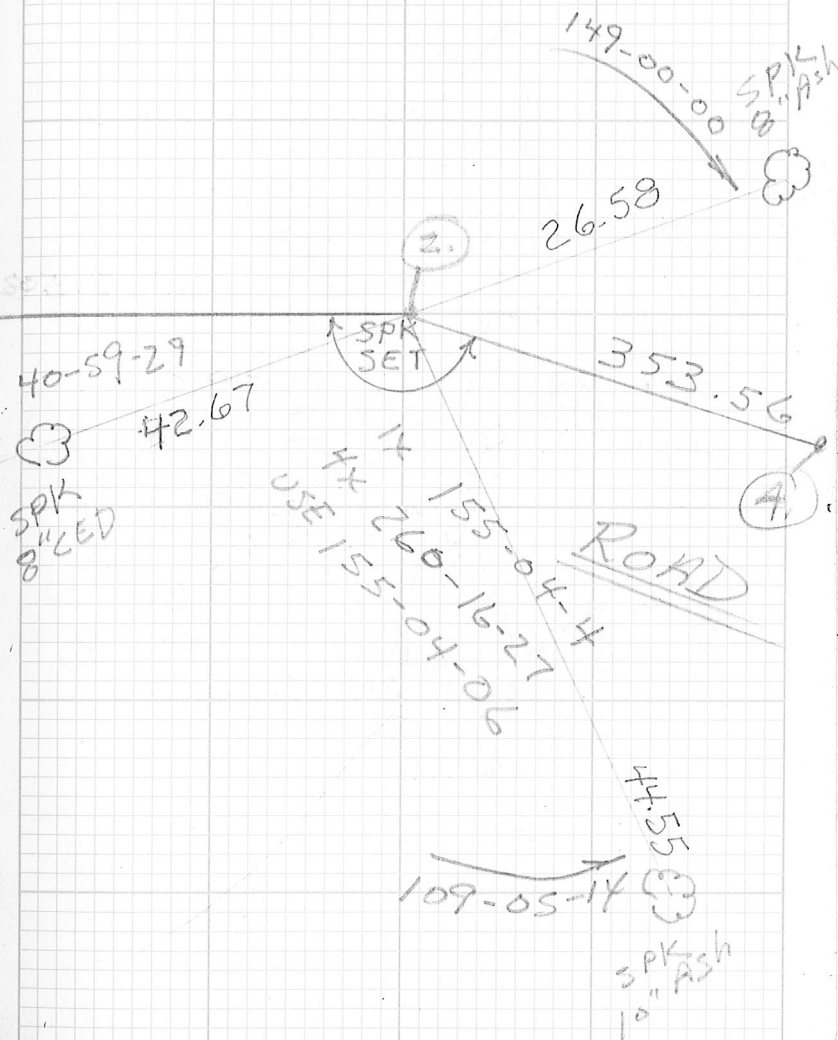
60 TRAVERSE DOVER RD ✓

inst	Tape	Wthr & Temp	Date	Crew
TC	pole	Cldy 65	6-03	GC DS

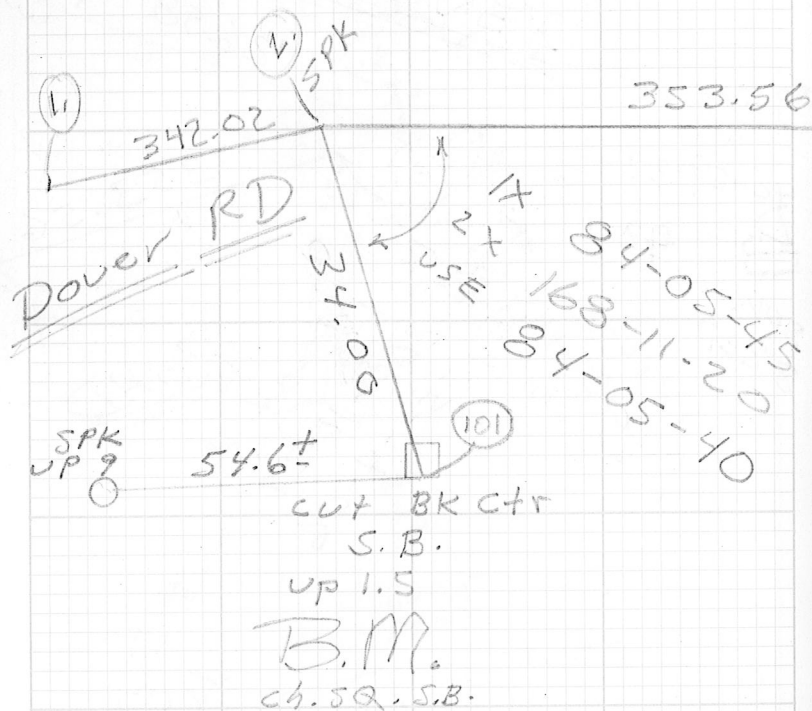


WESTWOOD F.B. 609 ✓ 61

inst	Tape	Wthr & Temp	Date	Crew

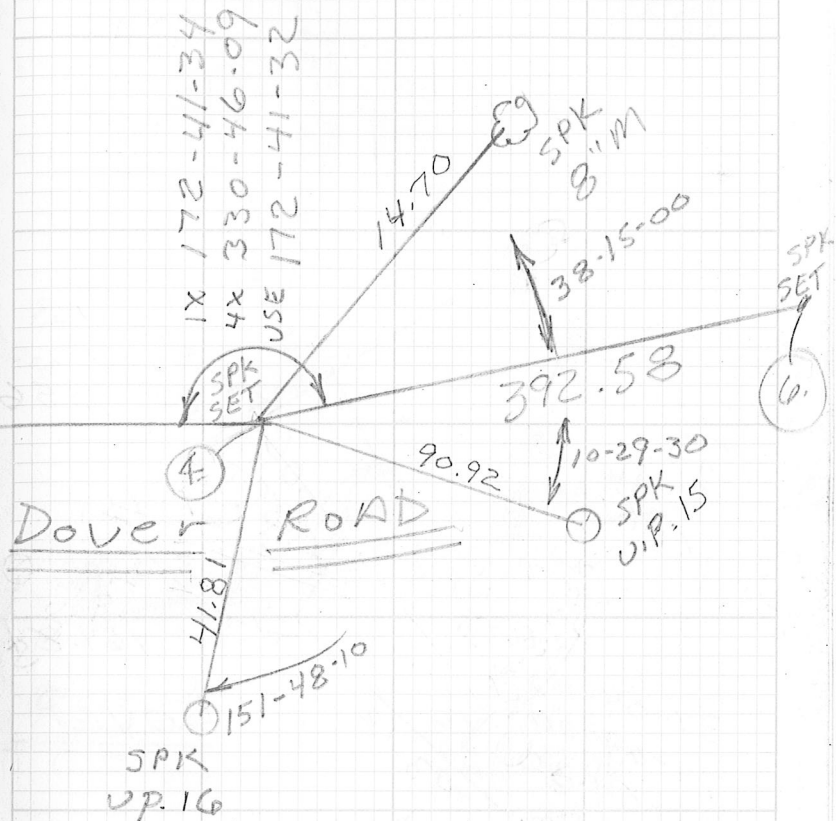


Inst	Tape	Wthr & Temp	Date	Cred
7C	POLR	cldy 65	6-03	GC DS

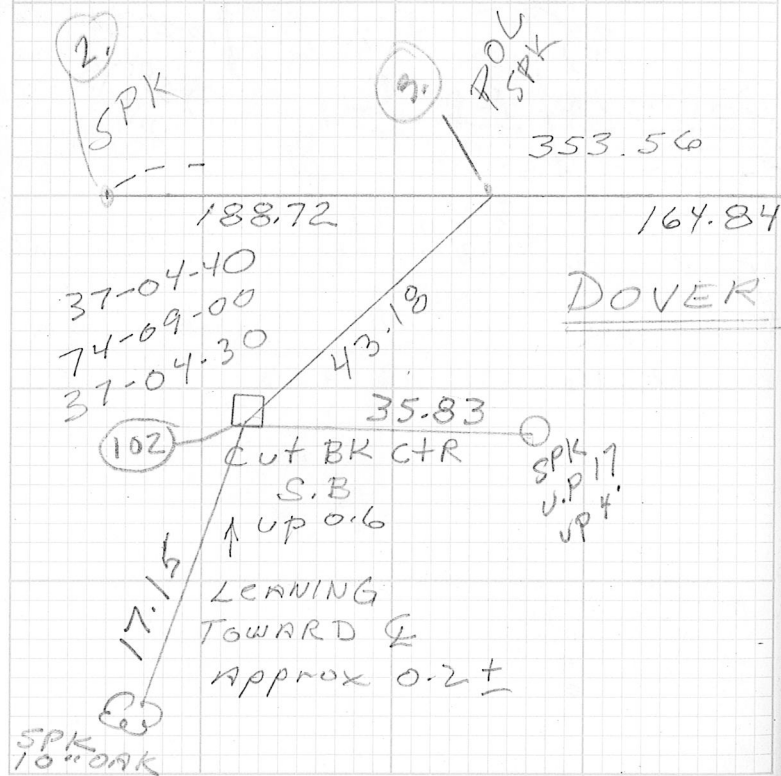


✓ 63

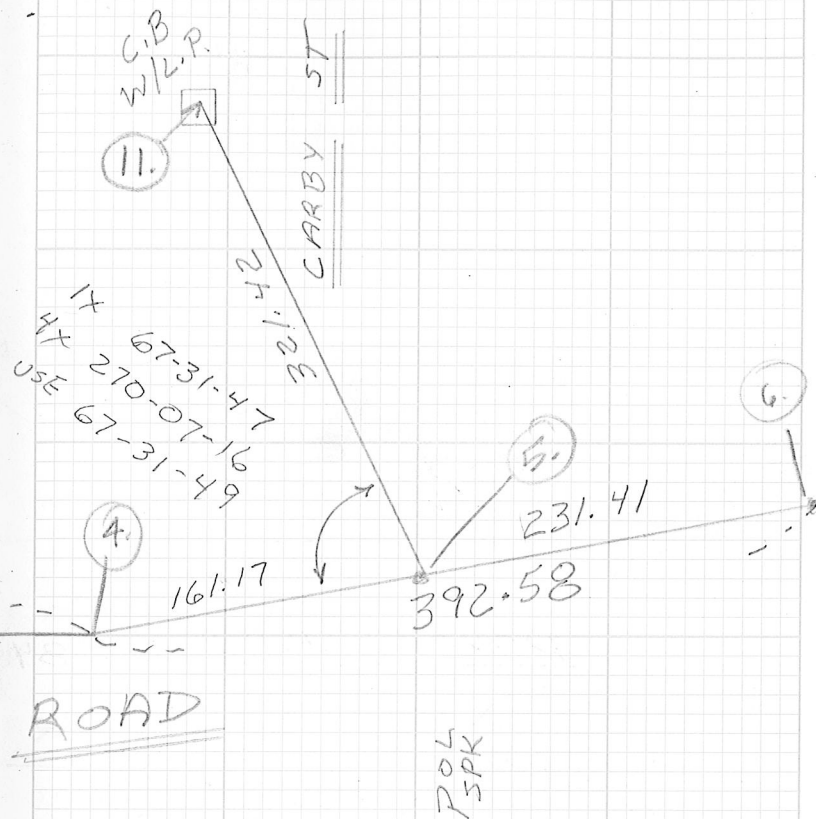
Inst.	Type	Wthr & Temp.	Date	Crew
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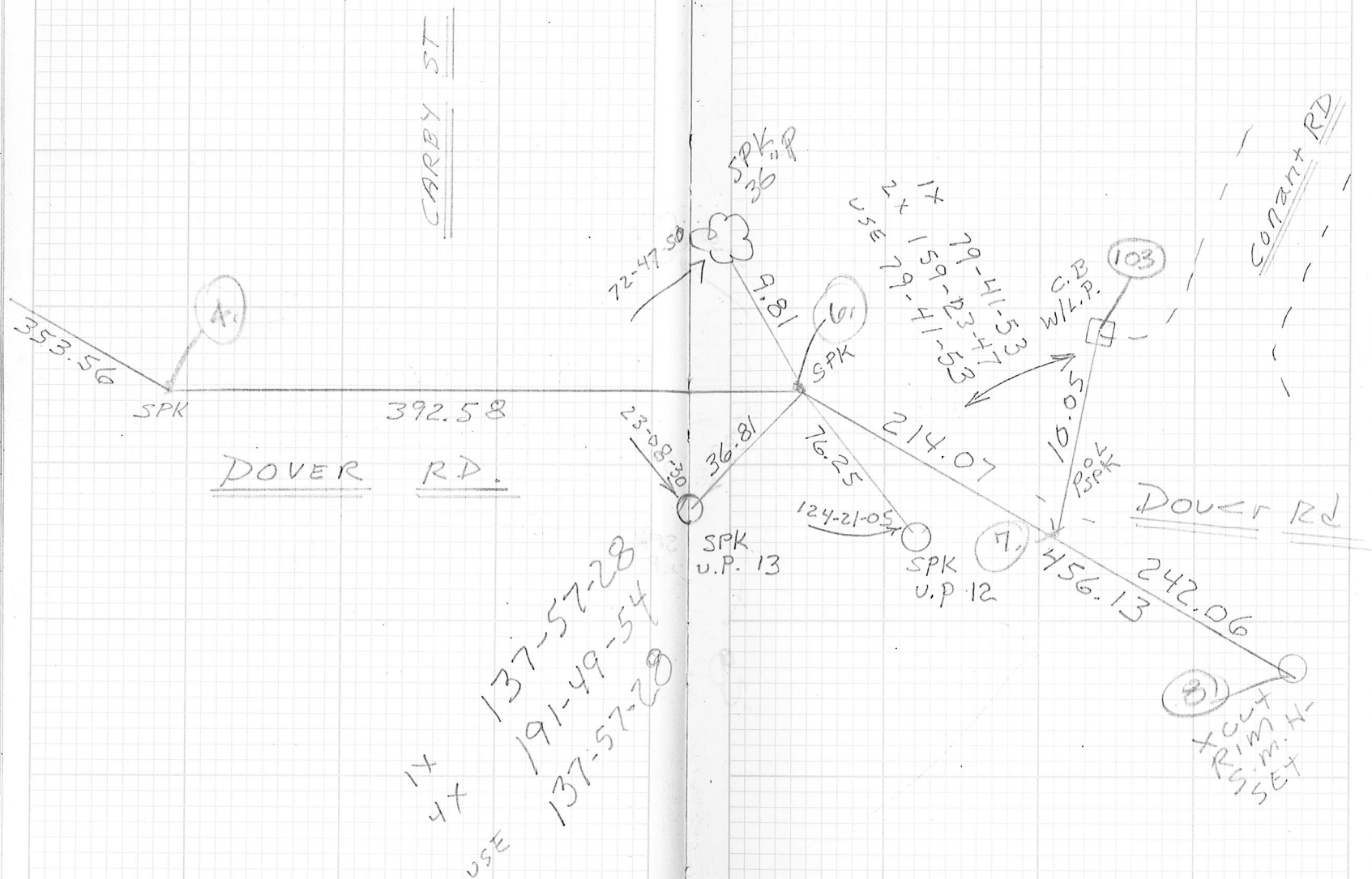
64 TRVERSE DOVER RD.
inst. Tape Wthr & Temp. Date Crew



WESTWOOD F.B. 609 ✓ 65
inst. Tape Wthr & Temp. Date Crew

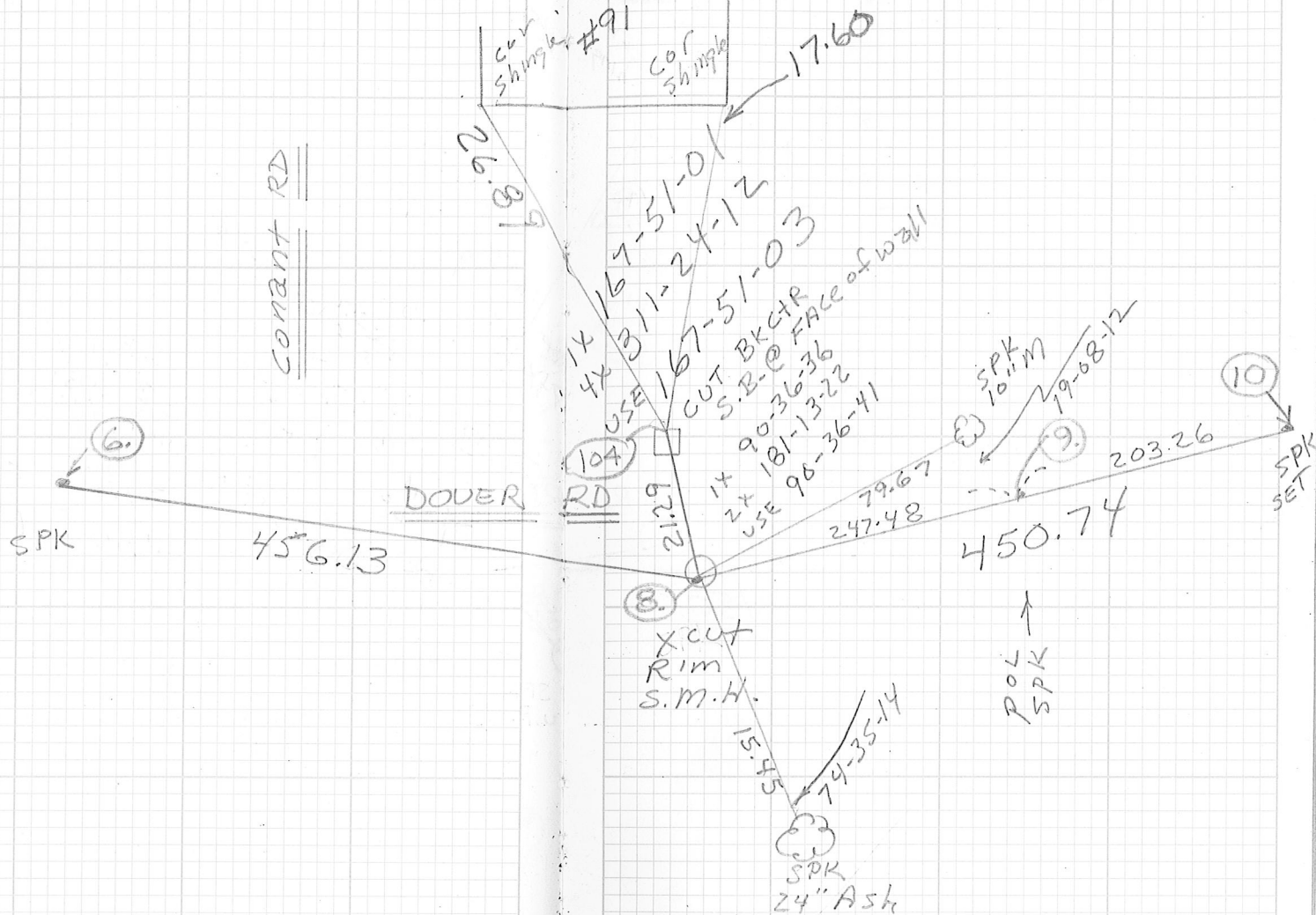


WESTWOOD F.B. 609 ✓ 67
inst. Type Wthr & Temp. Date Crow

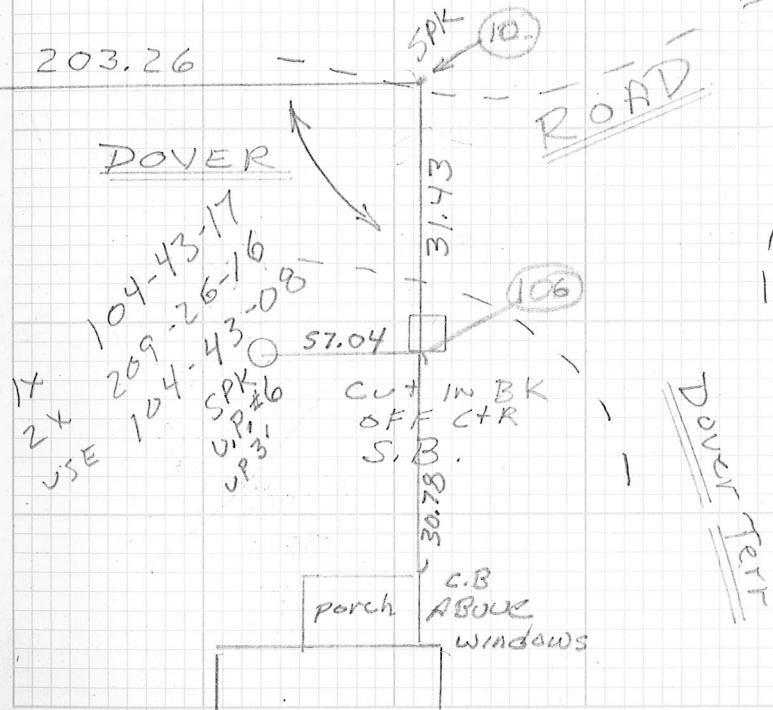
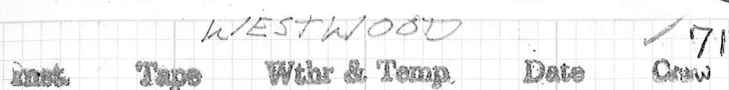


F.B. 609

✓ 69
Crew

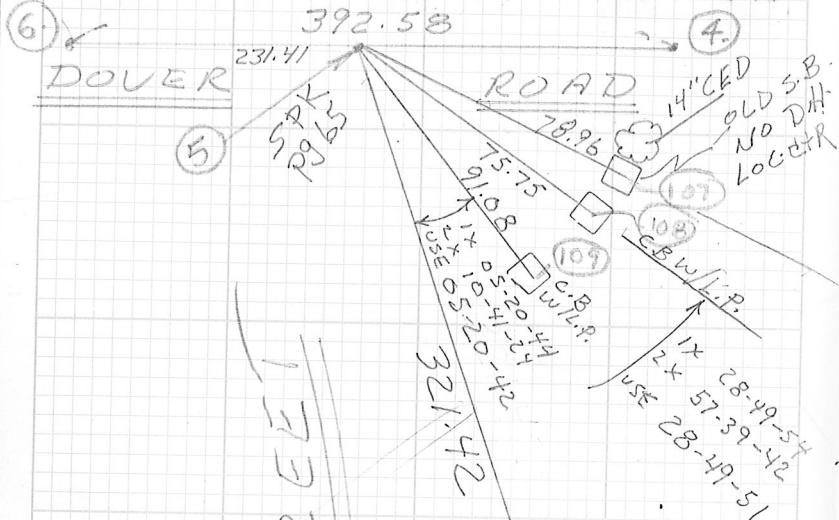


F.B. 609



72 TRAVERSE GARRY ST.

inst. Tape Wthr & Temp Date Crew



1X 147-05-47
4X 228-23-60
USE 147-05-45

GARRY ST.

(12) C.B. W/L.P.

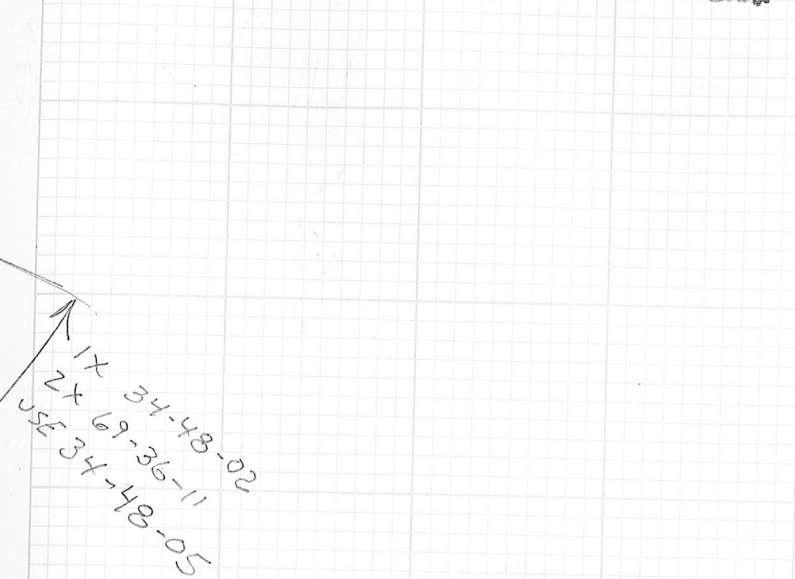
182.32

1X 108-12-11
2X 216-24-24
USE 108-12-12

(11) C.B. P9.65

WESTWOOD F.B. 609 73

inst. Tape Wthr & Temp Date Crew

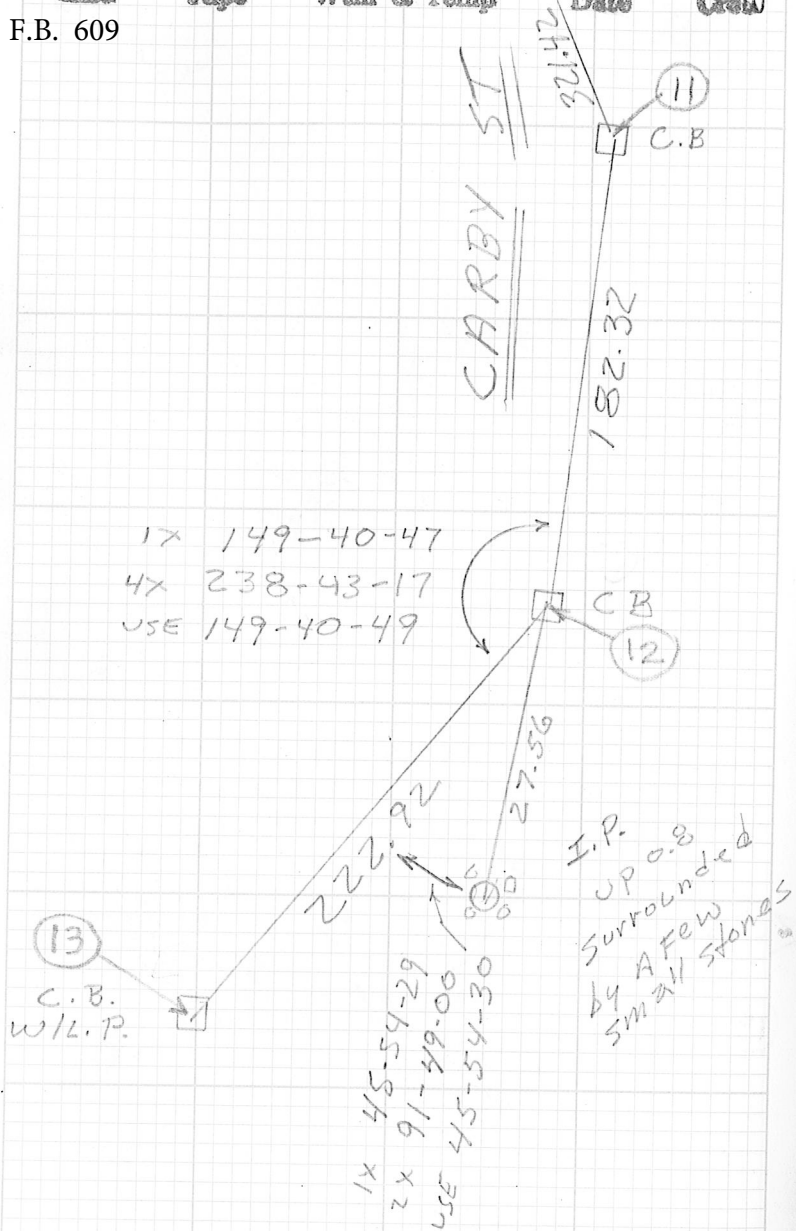


Located BASE
I.P. 1.5 h.
Loose
Surrounded
BY (FEW)
Small Stones

157.27

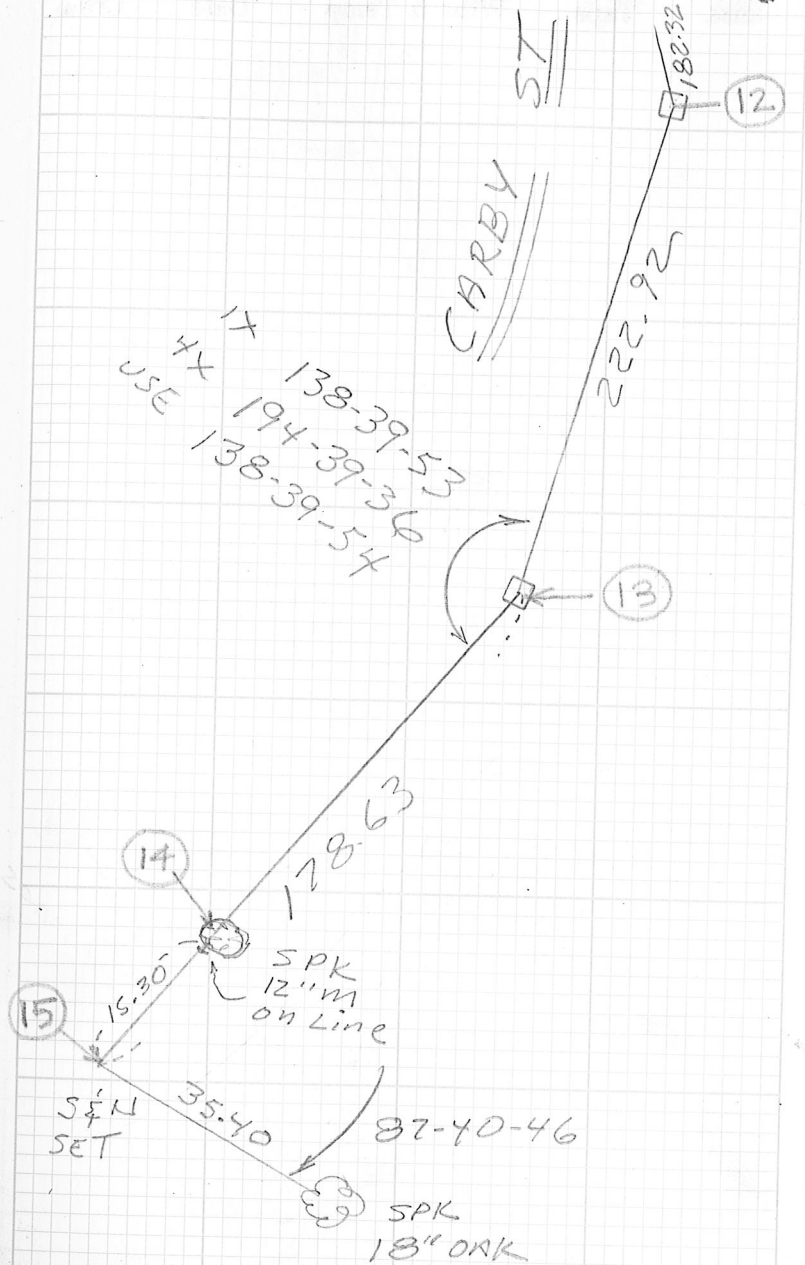
74 TRAVERSE CARBY ST

Inst. Tape Wthr & Temp Date Crew
F.B. 609



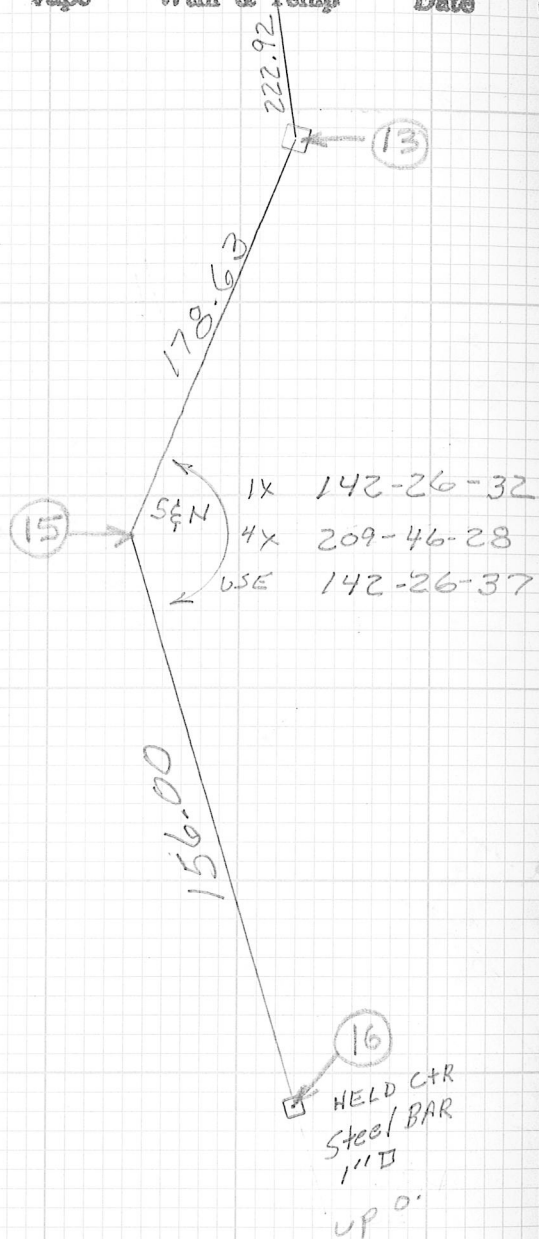
WESTWOOD

Inst. Tape Wthr & Temp Date Crew
75



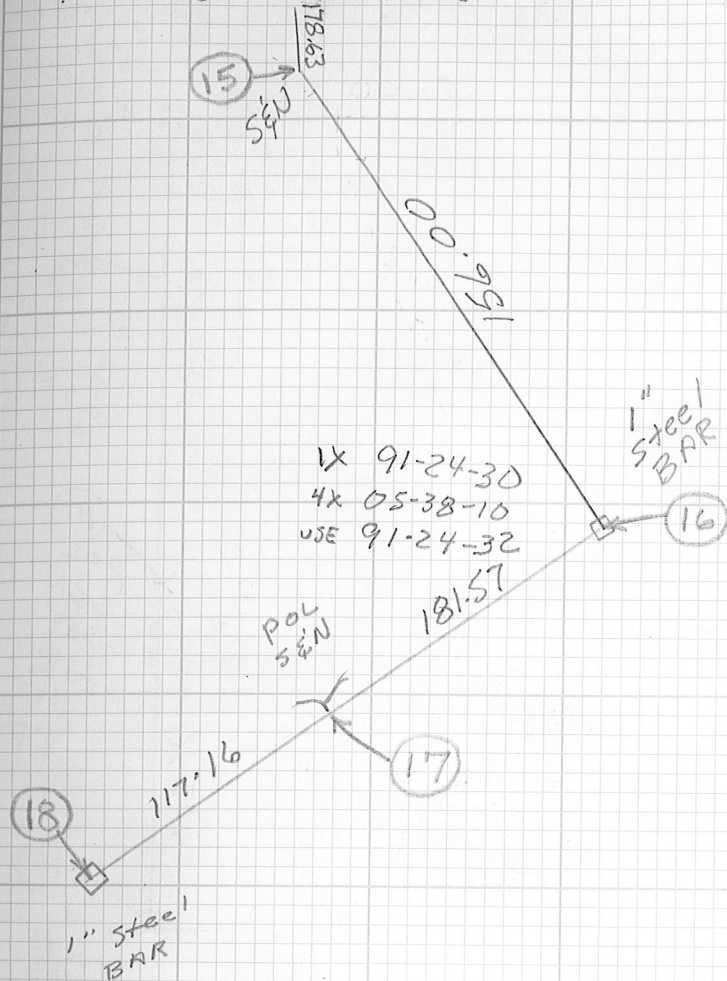
76 TRAVERSE CARBY ST

Inst. Tape Wthr & Temp Date Crew
F.B. 609

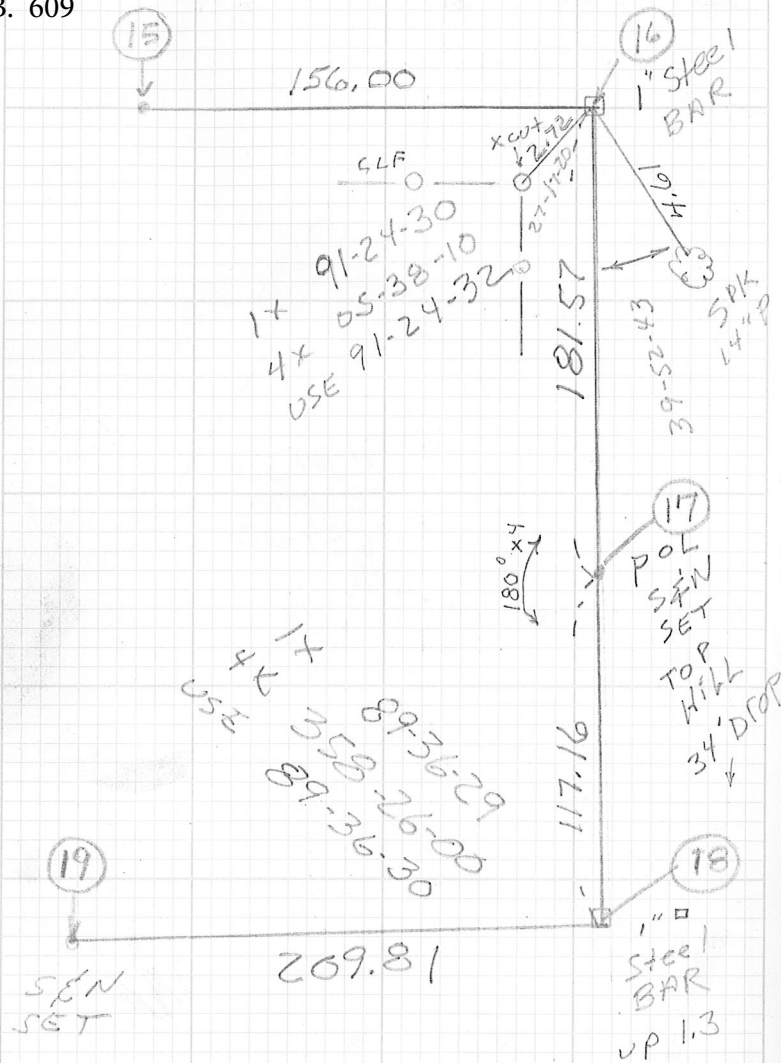


77 WESTWOOD

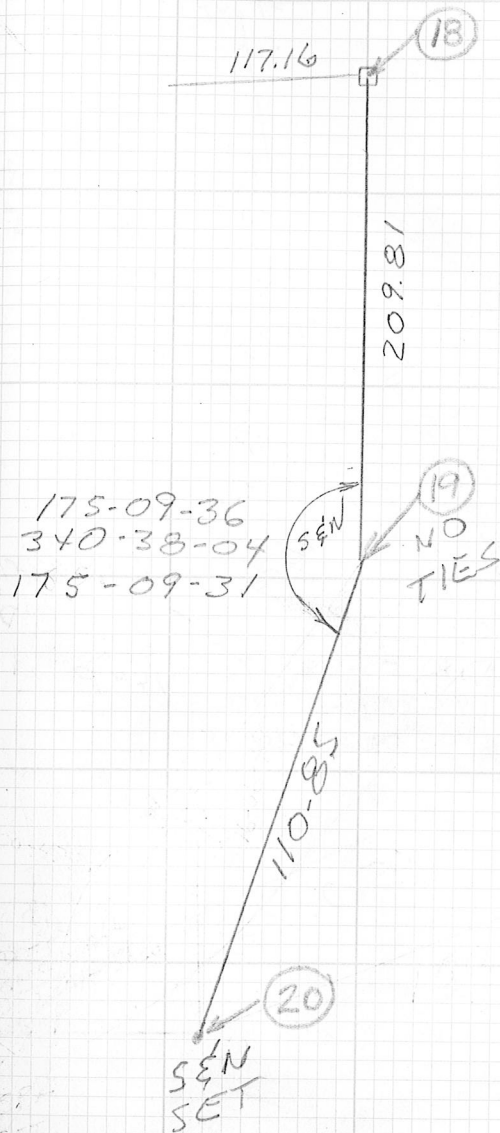
Inst. Tape Wthr & Temp Date Crew

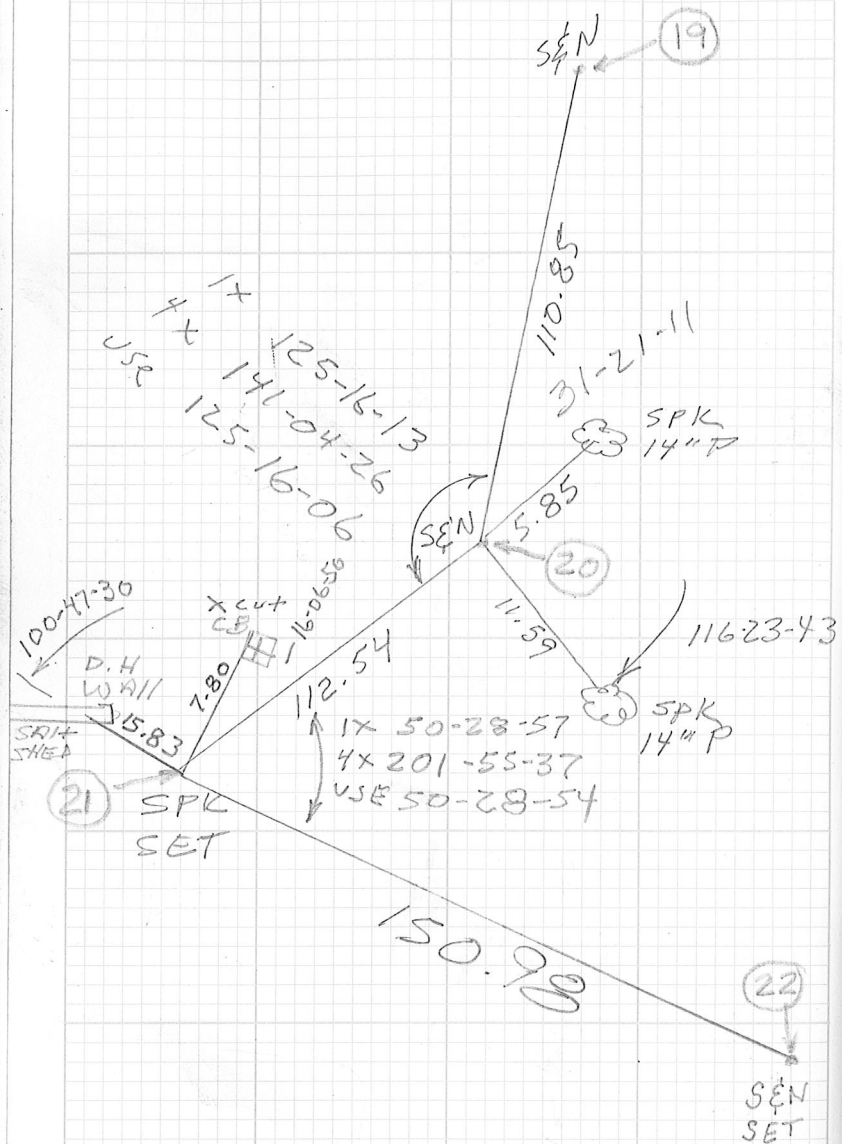


78 ✓ **TRANSVERSE CARRY ST**
 Inst. Tape Wthr & Temp. Date Crew
 F.B. 609

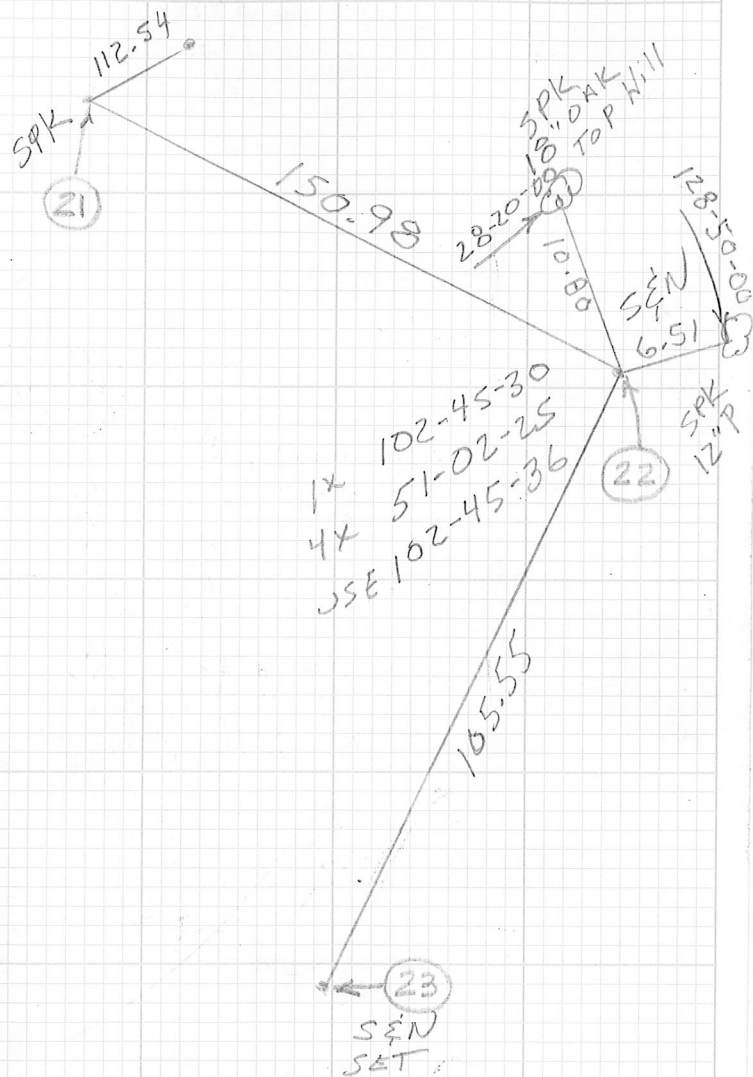


WESTWOOD
 Inst. Tape Wthr & Temp. Date Crew
 TC pole cky 65 6-03 179
 GC DS





Inst	Tape	Wthr & Temp	Date	Crew
------	------	-------------	------	------



82 ✓ TRAVERSE CARBY ST
 inst. Tape Wthr & Temp Date Crew
 F.B. 609

C.B. w/L.P.
 @ TOP of BANK
 42.10
 150.98
 105.55
 1X 174-05-09
 4X 348-16-19
 USE 174-05-09

1X 136-45-20
 4X 187-00-54
 USE 136-45-13

67-32-10 SPK
 6" ASH

4.99
 23
 141.69
 289.92
 148.23
 1X 63-28-49
 4X 253-55-17
 USE 63-28-49

CARBY

110.36

321.42

C.B.
 Pg. 65

ST
 5
 SPK
 Pg 65

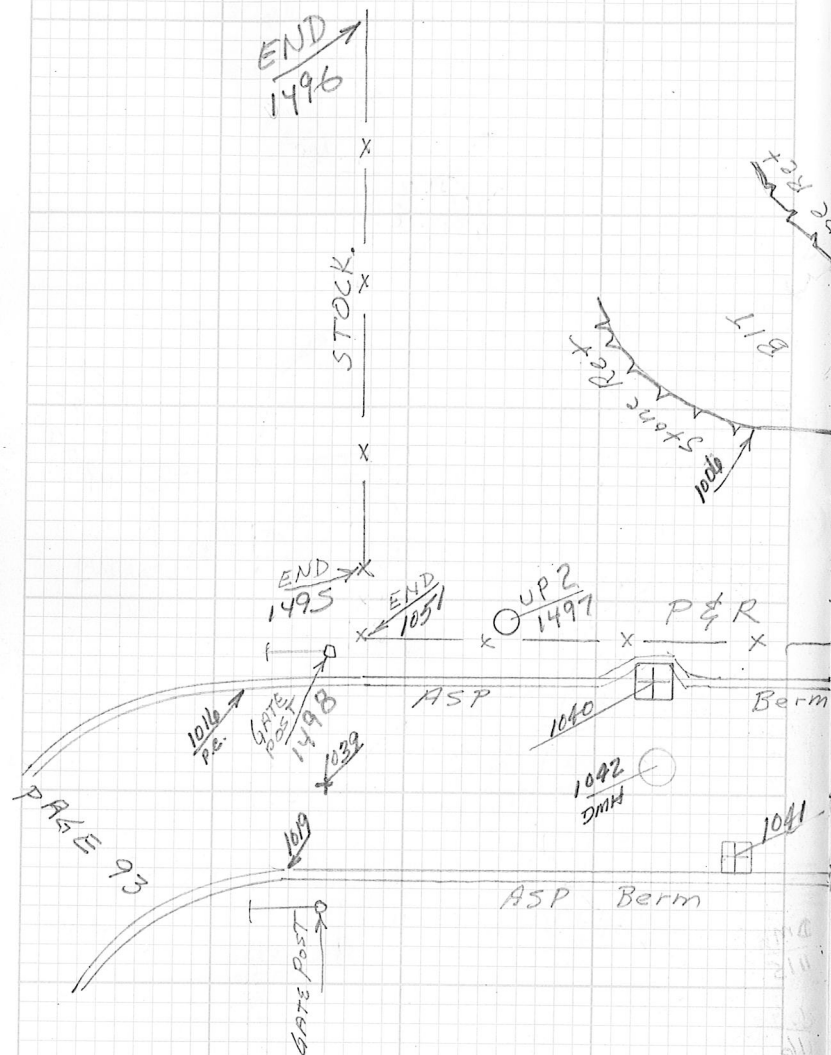
Dover

WESTWOOD 83
 inst. Tape Wthr & Temp Date Crew

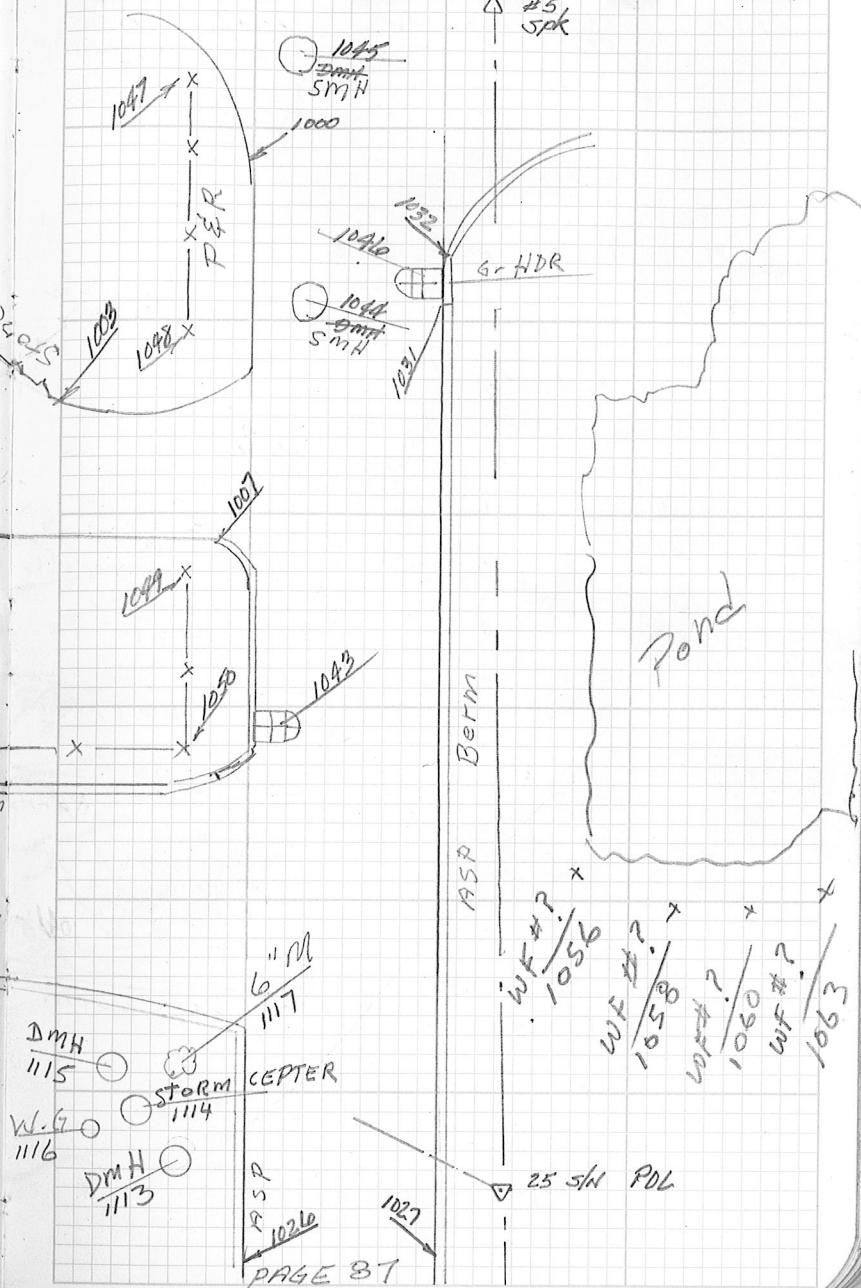
C.B.
 42.10
 150.98
 105.55
 115.79
 111
 22
 21
 23
 112
 LEAVING
 1" IRON PIPE
 UP 0.7
 1X 97-55-43
 3X 195-51-39
 USE 97-55-44
 67-32-10 SPK
 6" ASH
 4.99
 23
 141.69
 289.92
 148.23
 1X 63-28-49
 4X 253-55-17
 USE 63-28-49

Scattered WALL

Inst.	Tape	Wthr & Temp.	Date	Crew
TC.	DATA	SUN 87°±	7/03/03	DES M.S. J.V.



inst.	Tape	Wthr & Temp.	Date	85 Crow
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F.B. 609

07-07-03-A

SET on 11 BS 25

B Mc MERS up @ $\pi = 4.77$

pt. # 1053 - 1094

CHECKS O.K.

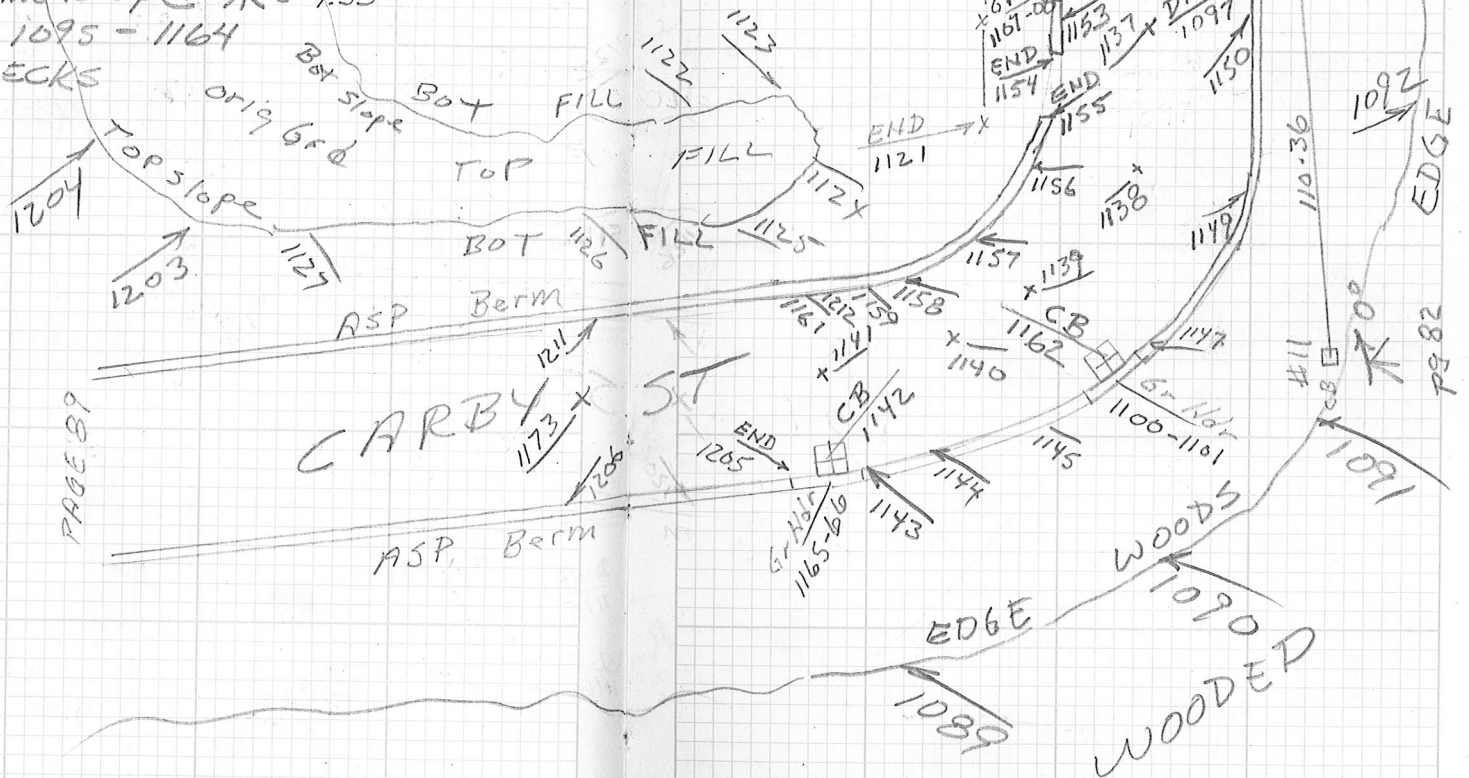
07-07-03-B

SET ON 11 BS 25

BM: moves up @ $K = 4.55$

PT # 1095 - 1164

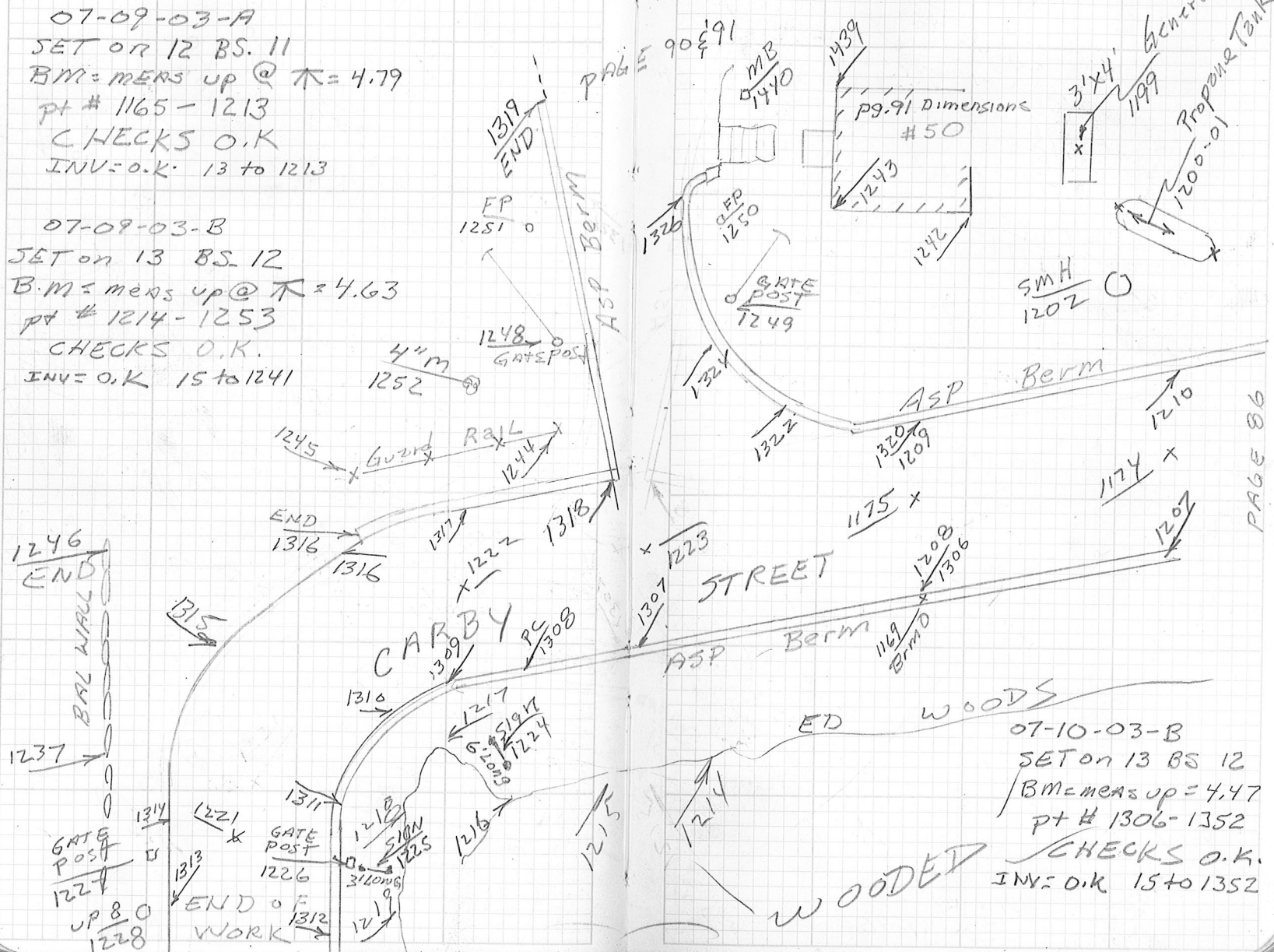
CHECKS



88 DETAIL PROPOSED D.P.W.
 met Tape Withr & Temp Date Crew
 DATA POLE SHOWERS 75 7-03 GC
 MS

07-09-03-A
 SET on 12 BS. 11
 B.M. = mens up @ $\pi = 4.79$
 pt # 1165 - 1213
 CHECKS O.K.
 INV = O.K. 13 to 1213

07-09-03-B
 SET on 13 BS. 12
 B.M. = mens up @ $\pi = 4.63$
 pt # 1214 - 1253
 CHECKS O.K.
 INV = O.K. 15 to 1241



B19. WESTWOOD F.B. 609
 met Tape Withr & Temp Date Crew
 89

07-10-03-B
 SET on 13 BS. 12
 B.M. = mens up = 4.47
 pt # 1306 - 1352
 CHECKS O.K.
 INV = O.K. 15 to 1352

PAGE 86

F.B. 609



1082

Tana

Wich & Tamm

Date _____

DRYK

504

500

75

30

100

SET on 21 BS. 11

B.M = meas up @ $\bar{x} = 5.28$

pt # 1254 - 1305

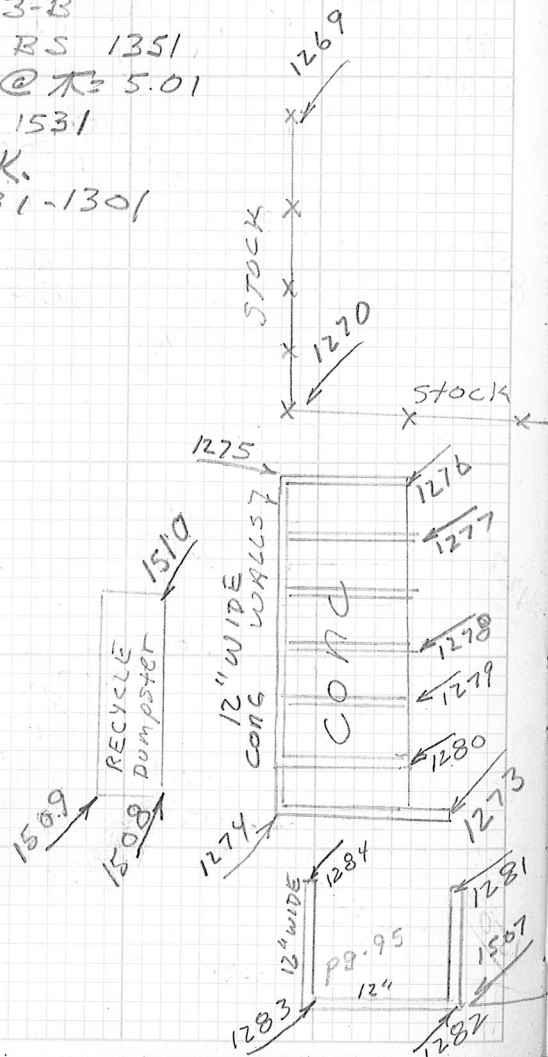
CHECKS O.K

INV = O.K. 20 to 1305

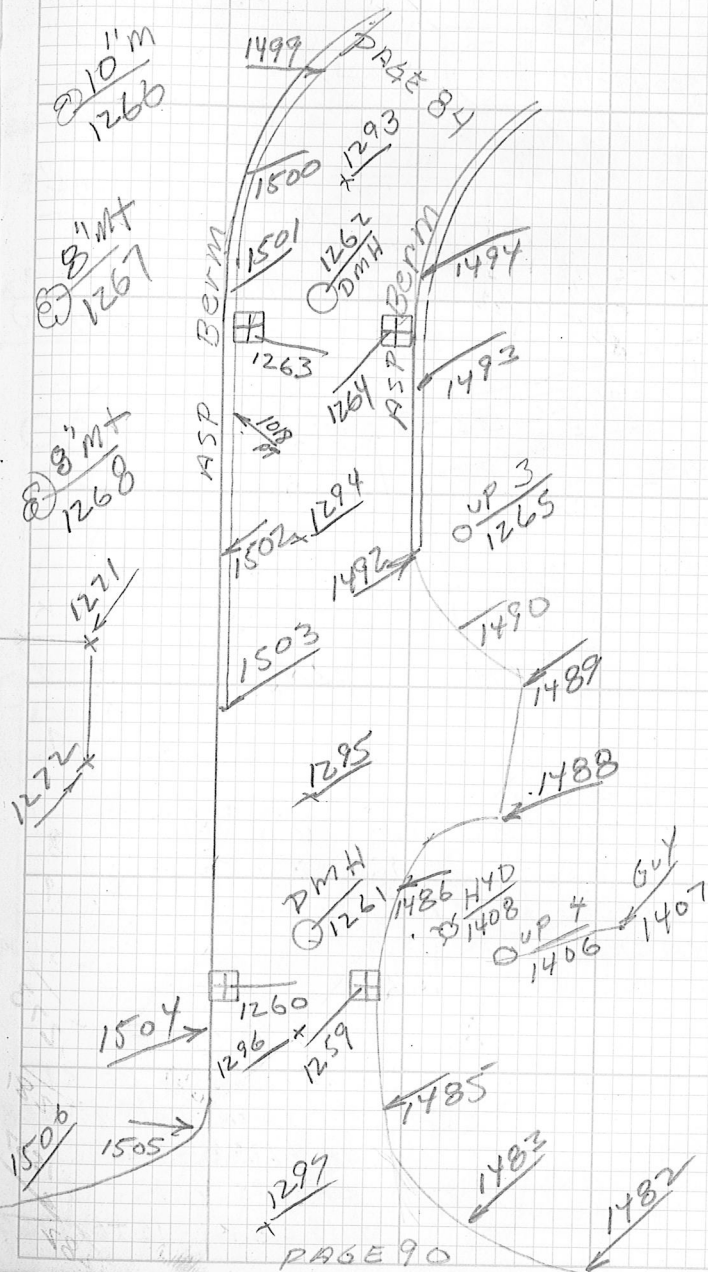


92 DETAIL PROPOSED D.P.W. Bldg.
 inst. ✓ Tape Wthr & Temp. Date Crew
 DATA pok cldy 70 7-03 GC
 MS

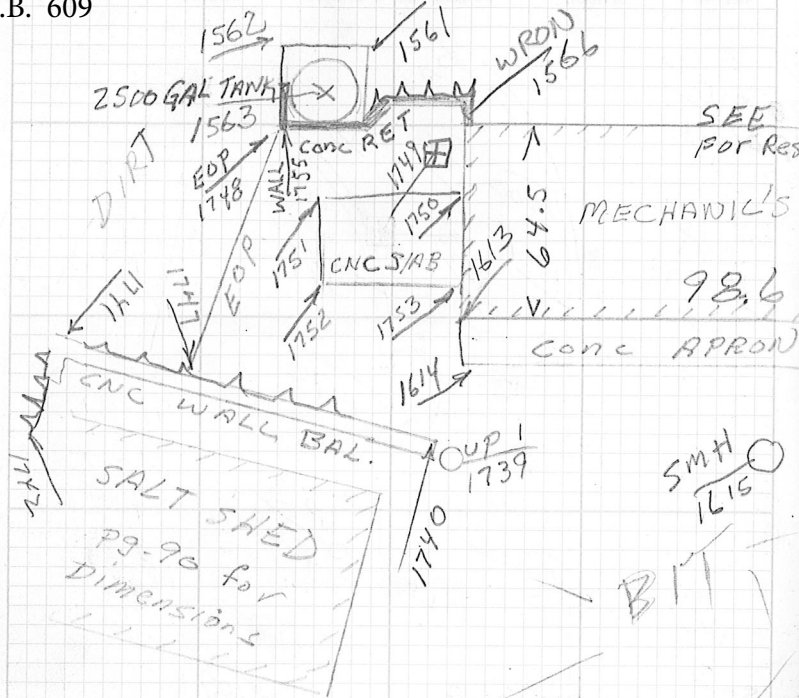
07-14-03-B
 SET on 21 RS 1351
 BM-meas up @ T= 5.01
 pt # 1482 - 1531
 CHECKS O.K.
 INV = o.k 1531-1301



WESTWOOD F.B. 609 93
 inst. ✓ Tape Wthr & Temp. Date Crew



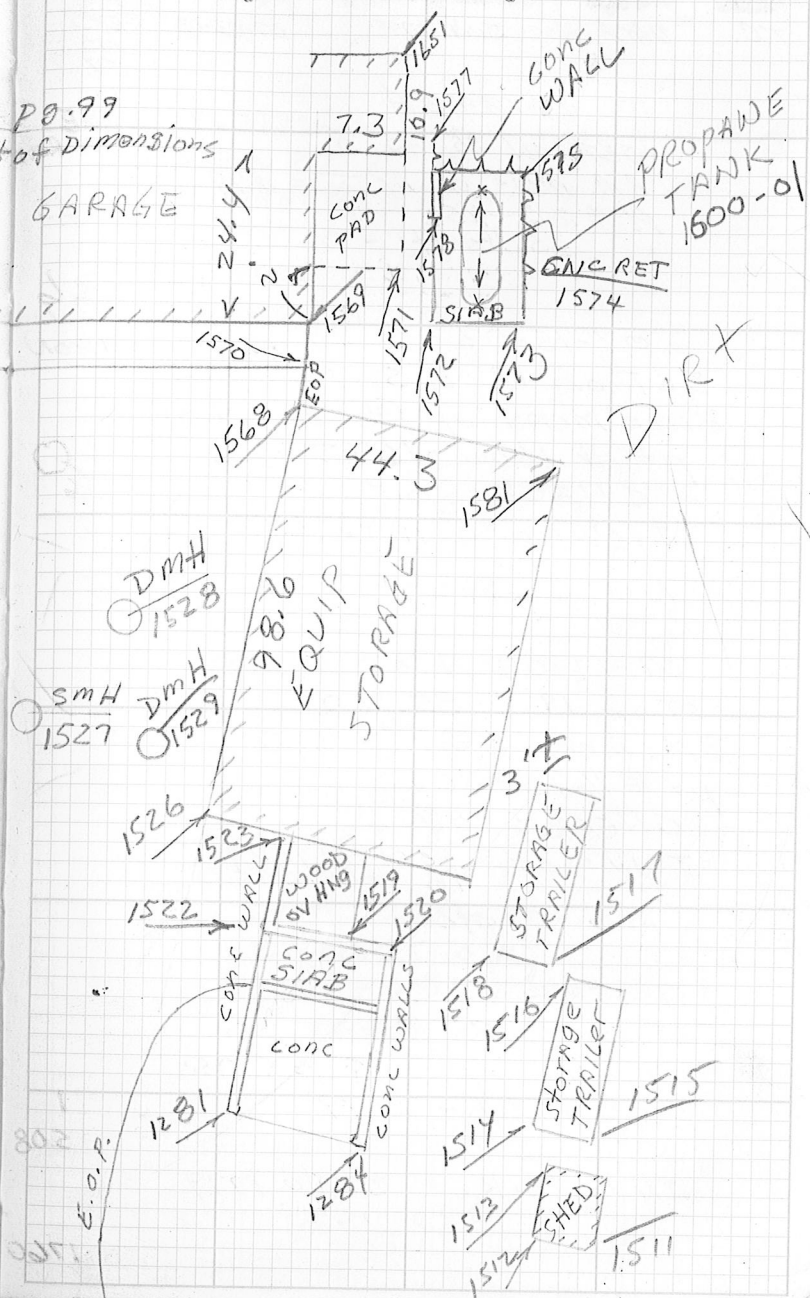
94. ✓ DETAIL PROPOSED D.R.W. Bldg.
 inst. Tape Wthr & Temp. Date Crew
 F.B. 609



07-15-03-A
 SET on 1301 BS. 21
 B.M. = mens up @ $\pi = 4.95$
 pt # 1568 - 1617
 CHECKS O.K.
 INV. = O.K. 19 to 1616

07-18-03-B
 SET on 1302 BS 21
 B.M. = mens up @ $\pi = 5.08$
 pt # 1738 - 1760
 CHECKS O.K.
 INV. = O.K. 15 to 1760

WEST WOOD ✓ 95
 inst. Tape Wthr & Temp. Date Crew



96 DETAIL PROPOSED D.P.W. Bldg
 Inst. Tape Wthr & Temp. Date Crew
 T.C. DATA JUN 87⁰² 07-03-03 DKS
 MJS
 JV.

07-03-03 A

SET on 25 BS 5
 B.M. MEAS. UP AT $\pi = 4.99$
 pt # 1000 - 1052
 BS Cks ok

07-15-03-C

SET on 17 BS 16
 B.M. MEAS UP @ $\pi = 4.81$
 pt # 1626 - 1637
 CHECKS O.K.
 INV = O.K. 18 to 1637
 NO SKETCH

07-17-03 A

SET on 19 BS. 20
 B.M. MEAS UP @ $\pi = 4.83$
 pt # 1675 - 1687
 CHECKS O.K.
 INV = O.K. 1301 to 1687
 18 to 1685
 NO SKETCH

07-18-03 C

SET on 21 BS 1351
 B.M. MEAS UP @ $\pi = 5.08$
 pt # 1761 - 1779
 CHECKS O.K.
 INV O.K. 20 TO 1779

WESTWOOD F.B. 609 ✓ 97
 Inst. Tape Wthr & Temp. Date Crew

07-17-03-C

SET on 20 BS 19
 B.M. MEAS UP @ $\pi = 4.14$
 pt # 1700 - 1706
 CHECKS O.K.
 INV = O.K. 21 to 1706

NO SKETCH

07-17-03-D

SET on 22 BS. 21
 B.M. MEAS UP @ $\pi = 4.33$
 pt # 1707 - 1726
 CHECKS
 INV = O.K. 23 to 1713

NO SKETCH

07-18-03-A

SET on 23 BS. 22
 B.M. MEAS UP @ $\pi = 5.02$
 pt # 1727 - 1737
 CHECKS O.K.
 INV = O.K. 25 to 1737
 NO SKETCH

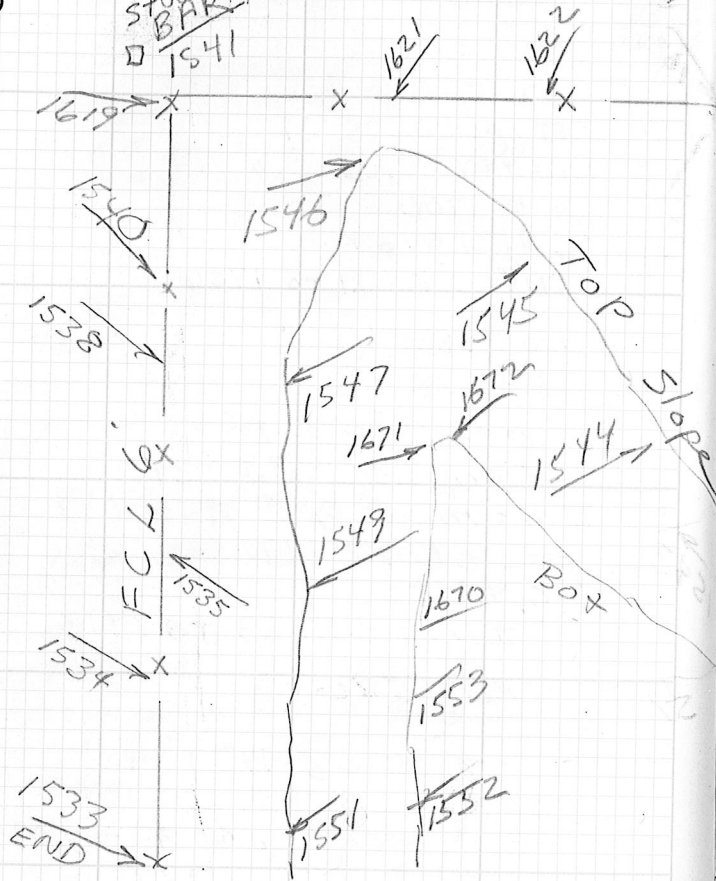
23
 213.986

98 DETAIL PROPOSED DPW. Bldg

F.B. 609

Inst Tape Wthr & Temp Date Crew

Steel
BAR
D 1541



07-14-03-C

SET on 15 BS 13

BM = meas up @ $\pi = 4.51$

pt # 1532 - 1567

CHECKS O.K.

INV = O.K. - 1302 to 1567

WESTWOOD

99

Inst Tape Wthr & Temp Date Crew

DATA

ROD

216, 70

9-03

Crew

GC
MS

07-15-03-B

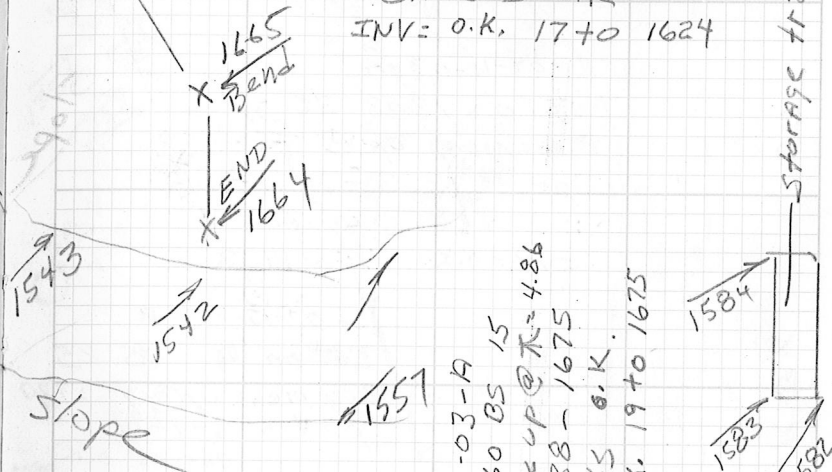
SET on 16 BS. 15

BM = meas up @ $\pi = 4.00$

pt # 1618 - 1625

CHECKS O.K.

INV = O.K. 17 to 1624



07-16-03-A

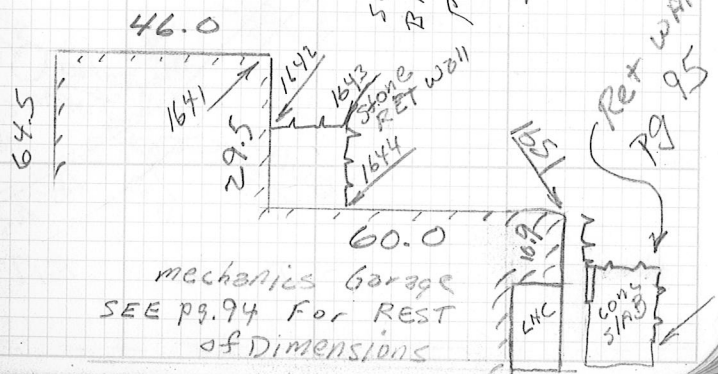
SET on 1560 BS 15

BM = meas up @ $\pi = 4.86$

pt # 1638 - 1675

CHECKS O.K.

INV = O.K. 19 to 1675



mechanics Garage
SEE pg. 94 For REST
of DIMENSIONS

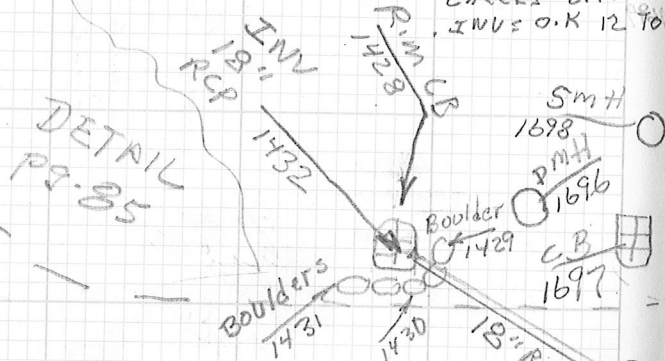
100 DETAIL PROPOSED D.P.W. inst. Tape Wthr & Temp. Date Crew
F.B. 609

B/69. WEST WOOD 101
inst. Tape Wthr & Temp. Date Crew
DRIZZLE 75 7-03 GC MS JV



07-11-03-A
SET on 1303 BS.5
B.M. = mens up @ $\tau = 482$
pt # 1353-1438
CHECKS O.K.
INV = O.K. 21 to 1438

07-17-03-B
SET on 11 BS 25
B.M. = mens up @ $\tau = 480$
pt # 1688-1699
CHECKS O.K.
INV = O.K. 12 to 1699



D.P.W. ENT ROAD

102

inst

Tape

Wthr & Temp

Date

Crew

103

inst

Tape

Wthr & Temp

Date

Crew

104 LEVEL RUN DOVER RD TO

CAREY ST.

WESTWOOD

105

inst Tape Wthr & Temp Date Crow
 AET Rod 6167 68 6-03 6L
 Level DS

inst Tape Wthr & Temp Date Crow
 F.B. 609

STA/OFF	+	H/I	-	EL
	5.95	194.10		188.15
	5.77	198.55	1.32	192.78
	3.34	199.86	2.03	196.52
			6.98	192.88
	5.67	198.55		192.88
	3.21	194.60	7.16	191.39
	6.02	197.48	3.14	191.46
	6.30	201.59	2.19	195.29
	12.30	212.23	1.66	199.93
	18.34	229.63	0.94	211.29
	0.35	229.97	0.01	229.62
	1.57	222.77	8.77	221.20
			5.92	216.85
				CON'T

ADJ EL	REMARKS
188.15	CHSQ DOORSILL TO DOVER ST PUMPING STATION 68 E-76 EL=188.15 pg 221 Bench BK
	T.P. Stone
	T.P. curb
192.88	B.M.= ch SQ S.B. 68 E-76 B EL=192.88 pg 222 Bench BK
192.88	B.M.= ch SQ S.B. (ABOVE) 68 E-76 B EL=192.88
	(NAIL) U.P. 17
	Δ pt SPK 5 pg 65 P.O.L
	Δ pt S&N 25 pg. 82 P.O.L
	Δ pt C.B. 11 pg 65
	Δ pt C.B. 12 pg. 72
	Δ pt C.B. 13 pg. 74
	T.P.
	BM=SET Drill Hole End of wall to SALT shed pg. 80

106 LEVEL RUN DOVER RD TO
 inst. Tape Wthr & Temp. Date Crew
 AET ROD Sun 65 6-03 GC
 DS

F.B. 609 107
 CARBY ST WESTWOOD
 inst. Tape Wthr & Temp. Date Crew

STAFF OFF	+	HI	-	EL	ADJ EL
	1.76	218.61		216.85	#1304
	0.46	213.80	5.27	213.34	
	0.06	202.76	11.10	202.70	
	2.76	194.50	11.02	191.74	
	8.02	199.46	3.06	191.44	
	1.34	197.86	2.94	196.52	
	1.41	195.53	3.74	194.12	
			7.38	188.15	188.15

REMARKS

BM = SET D.H. End of Wall to Salt shed pg 80

A pt SPK 21 pg 80

T.P. curb

T.P. W.G.

T.P. Stone

T.P. Curb

T.P. Stone

B.M. Ch SQ Doorsill to Dover St
 Pumping STATION

68-E-76 - EL = 188.15 pg 221 Bench BK

Inst.

Tape

Wthr & Temp

Date

Crew

07-29-03-B

SET on 1785 BS 25

BM = MENS UP @ $\pi = 5.33$

pt # 1787 - 1793

CHECKS

INV = O.K. 11 to 1793

NO sketch

07-29-03 C

SET on 6 BS. 8

BM = MENS UP @ $\pi = 4.93$

4.75

pt # 1794 - 1800

CHECKS

INV = O.K. 1785 TO 1800

NO sketch

07-30-03-A

SET on 1785 BS 25

B.M. = MENS UP @ $\pi = 5.10$

pt # 1801 - 1802

CHECKS O.K.

INV = O.K. 6 TO 1802

NO sketch

Inst.

Tape

Wthr & Temp

Date

109
Crew

07-30-03-B

SET on 24 BS 25

BM = MENS UP @ $\pi = 4.81$

pt # 1803 - 1805

CHECKS O.K.

INV = O.K. 11 TO 1805

NO sketch

07-30-03 - C

SET on 22 BS 23

BM = MENS UP @ $\pi = 4.46$

pt # 1806 - 1808

CHECKS O.K.

INV = O.K. 111 TO 1808

110 LOCATION OF Bldg COR. STK'S

Inst.	Tape	Wthr & Temp	Date	Crew
TC	DATA	SUP 70	7-63	GC MS

07-29-63-A

SET on 25 BS. 24

B.M. = MEAS UP @ $K = 5.04$

pt # 1780 - 1786

CHECKS O.K.

INV = O.K. 11 TO 1786

SHOTS ARE AT
BEANPOLES THAT
SAY Bldg. COR.

PROPOSED
Bldg

CARBY ST

SET BY (OTHERS)

WESTWOOD III

Inst.	Tape	Wthr & Temp	Date	Crew

F.B. 609

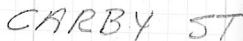
#23
SEN

#24
SPK

#25
SEN

DOVER ST

F.B. 609



✓ 115

4.53 sÉN

5.13

09-18-03-A

SET on 1800 BS. 25

$$Bm = \text{mass up @ } \bar{x} = 5.25$$

pt # 1802 - 1865

CHECKS o.k.

INV = 11 to 1865 o.k.

9-17-03 - ✓

SET on ZS / BS 11

~~BM = mens up @ 木 =~~

$p \neq 11$

CHECKS

118 ADDITIONAL DETAIL

F.B. 609

Inst.	Tape	Wthr & Temp.	Date	Crew
TC	R62	SUN 76	9-03	SC JIN

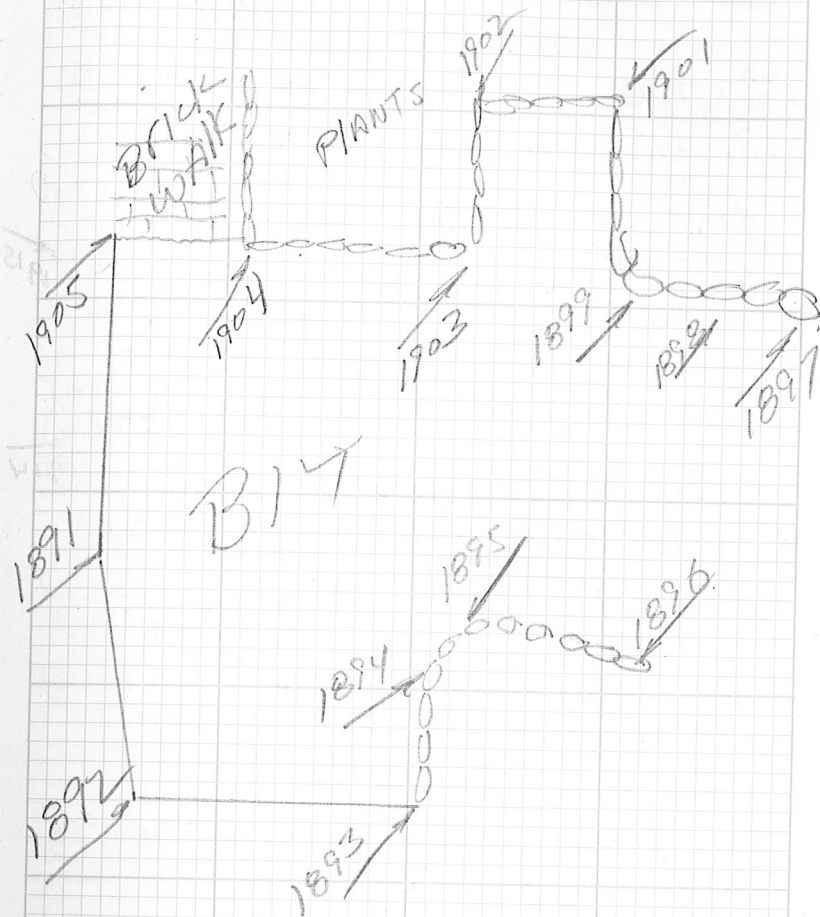
09-18-03-B
 SET on 24 B.S. 25
 B.M. = MEAS VP @ $\pi = 4.71$
 pt # 1886 - 1887
 CHECKS O.K.
 INV = 21 + 0 1887

09-18-03-C
 SET on 1886 B.S. 24
 B.M. = MEAS VP @ $\pi = 5.09$
 pt # 1888 - 1917
 CHECKS O.K.
 INVE 11 + 0 1917 OK



CARBY Rd WESTWOOD

Inst.	Tape	Wthr & Temp.	Date	Crew
				119



120 WESTWOOD DPW.

Inst Tape Wthr & Temp Date Crew
092903A 9/29/03 M.J. AP

MD (4.59) $\pi @$ 24 SPK-POL BS 25 SW-
(2316) $\rightarrow$ (25) INV $\checkmark$ H = 0.01 V = 0.04

(2311) $\rightarrow$ (2316) TEST BORING LOC

(2317) 131-32-35 230.45 VD = +13.86
SPK FND $\bar{r} = 5.15$

(2318) BM-DH EL = 216.98 (216.85)

(2319) 01 00-00-07 INV $\checkmark$ H = 0.02
V = 0.06

(2320) $\rightarrow$ (2335) TOPO ON STONE
RET WALL (609/100-101 SKETCH)

(2336) 01 00-00-16 INV $\checkmark$ H = 0.04
V = 0.04

092903B

MD $\pi @$ 2317 BS 24
(5.10) (2337) $\rightarrow$ (24) INV $\checkmark$ H = 0.01
V = 0.11
 $\checkmark$ V PRISM HT & MD

(2338) B-106 (ACTUAL BORING IN PUNT)

(2339) B-105

(2340) DH-BM EL = 216.95 (216.85)

* NOTE 1000 & 1001 SHOULD BE
2338 & 2339

(2341) 01 359-59-59 INV $\checkmark$ H = 0.04

(2342) CONC FL ELEV V = 0.09

2343 " 219.53

2344 " 219.54

CARRY ST

Inst Tape Wthr & Temp Date Crew
F.B. 609 121

092903B (CONT)

(2345) FFE ON CONC 216.92 } JUNK
(2346) " " " 217.35 }

(2347) FFE ON CONC AGAIN 217.34

(2348) " " " " 217.17 OK

01 00-00-07

100103A

J.M./M.S 10/01/03

MD (4.73) $\pi @$ SPK-24 BS 25-25

(2349) $\rightarrow$ 25 INV $\checkmark$ H = 0.01 V = 0.03

(2350) $\checkmark$ ANGLE = 17-04-30
 $\rightarrow$ 2364 WALL SHOTS

(2365) DH BM EL = 216.83 (216.85) $\checkmark$

(2366) INV $\checkmark$ ON SPK 21 H = 0.06 V = 0.01

(2367) 01 359-59-45 INV $\checkmark$ H = 0.02 V = 0.03

122

WESTWOOD DPW

inst

Tape

Wthr & Temp

Date

Crew

10/01/2003 J.M. M.J.

BS

HI

FS

2.60

219.45

216.85

X

6.12

213.33

8.47

222.00

X

4.635

217.345

4.92

217.08

4.90

217.10

2.58

219.42

2.54

219.46

3.30

218.70

5.14

216.84

CARBY ST.

F.B. 609

123

inst

Tape

Wthr & Temp

Date

Crew

DH-BM 609/105 (216.85) ✓

SPK-21 609/107 (213.34) ✓

S. END GARAGE (EQUIP.)

MID GARAGE (EQUIP GAR.)

N. OTHER END OF EQUIP GAR.

END OF GARAGE (MECHANICS)

MID OF MECHANICS GAR

SALT SHED BAY

DH-BM 609/105 (216.85)

CHANGED AREA		DO:	
Inst.	Tape	Wthr & Temp.	Date
			WESTWOOD 125
			Crow
			F.B. 609

Hand-drawn site plan on grid paper showing a road layout with various annotations. A shaded area is labeled "SHADED AREA IS AREA THAT WAS REGRADED". Other labels include "Graded w/ crushed gravel", "E.O.P.", "O.D.", and "S.P.K.". Road numbers 2000, 2001, 2003, 2004, and 2029 are marked with arrows. A small building icon is present near the 2000 road.

THESE HAVE BEEN
Removed As of
7-15-04

07-15-04-C
SET on 2048 BS 21
B.m.m.m.m.s up @ $\tau = 4.54$
p+ # 2051-2073
CHECKS O.K.
INV 13 to 2073 O.K.

TRAILER
pg. 90

126 CEMETERY LAND ADDITIONAL LOCATIONS "DOVER" F.B. 609 127
 Inst Tape Wthr & Temp Date Crew Inst Tape Wthr & Temp Date Crew
 TC DATA pt Sun 75 7-02-04 GC MS

07-02-04-A

SET on 15 BS 27

BM: MEAS UP @ $\pi = 5.19$

pt # 5000 - 5002

CHECKS O.K.

INV: 27 TO 5002 O.K.

07-02-04-B

SET on 5000 BS 15

B. MEMERS UP @ $\pi = 5.10$

pt # 5003 - 5046

CHECKS OK 0.2±

INV: 27 TO 5046 O.K.

Thunder Storms

07-12-04-A

SET on 5000 BS 15

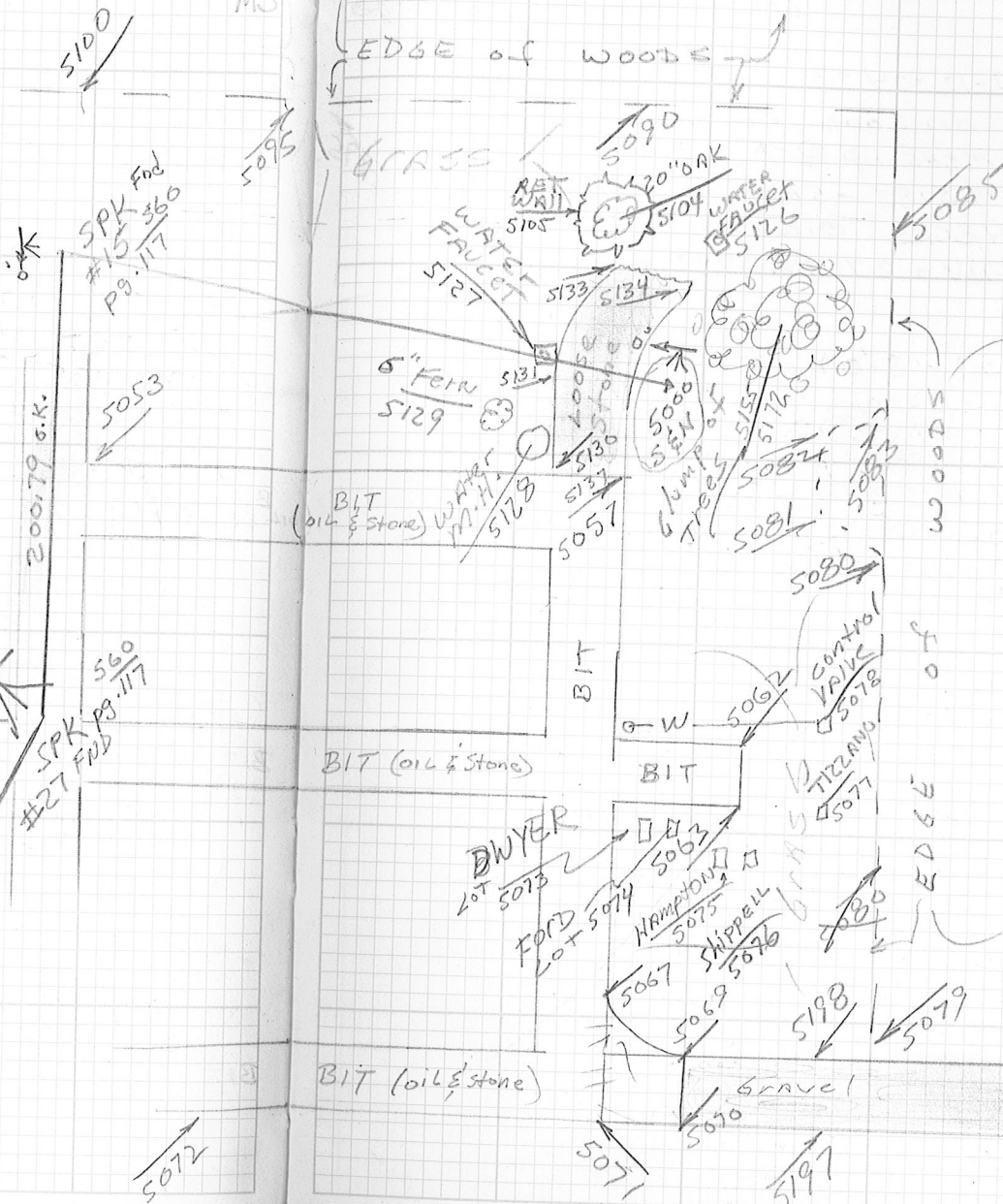
B.M. = MEAS UP @ $\pi = 5.00$

pt # 5047 - 5154

CHECKS O.K.

INV: 27 TO 5154 O.K.

D. Ho FND.
 PG #44
 560/117
 188.04 O.K.
 5072



1128 CEMETERY LAND ADD.
 Inst. Tape Wthr & Temp Date Crew
 TC DATA cldy 73 7-04 66
 cldy 73 MS

F.B. 609

07-12-04-B

SET on 5000 BS. 15
 BM = mens up @ $\pi = 5.08$
 pt # 5155 - 5241
 CHECKS O.K.
 INV = 27 TO 5241 O.K.

07-15-04-A

SET on 5000 BS 15 27
 BM = mens up @ $\pi = 5.21$
 pt # 5242 - 5297
 CHECKS O.K.
 INV = 15 TO 5297 O.K.

Locations "DOVER"
 Inst. Tape Wthr & Temp Date Crew
 129

130

Inst.

Tape

Wthr & Temp.

Date

Crew

Inst.

Tape

Wthr & Temp.

Date

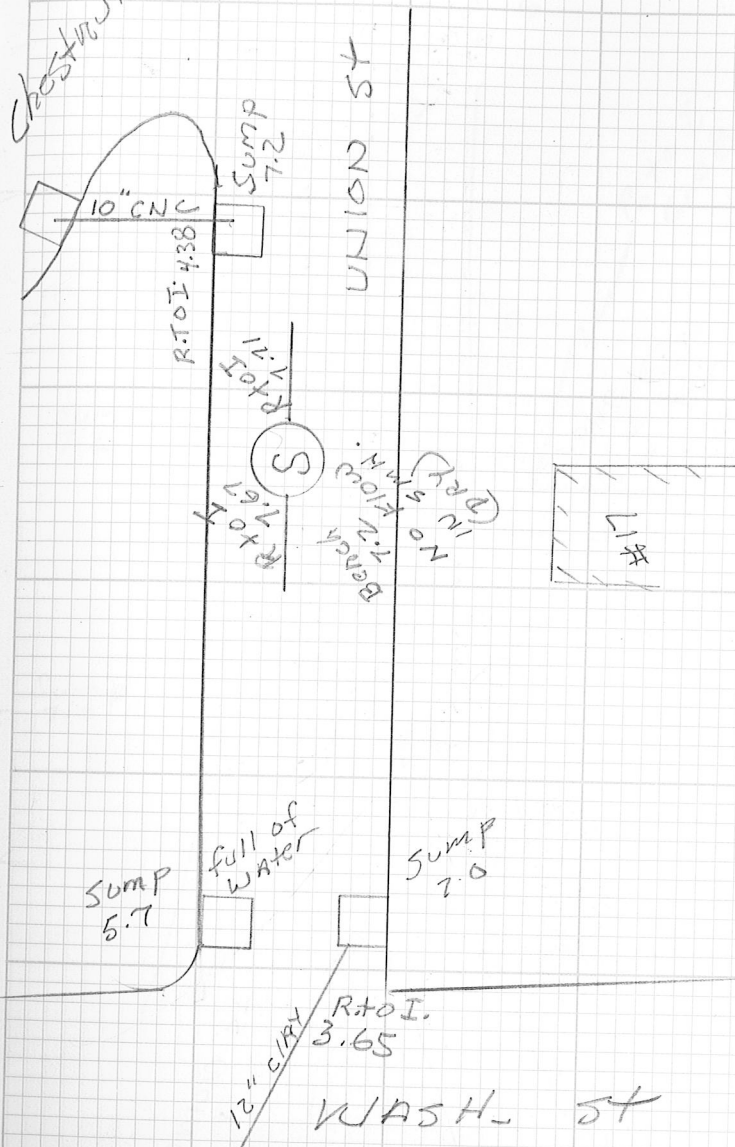
Crew

131

Continued
from
599/160

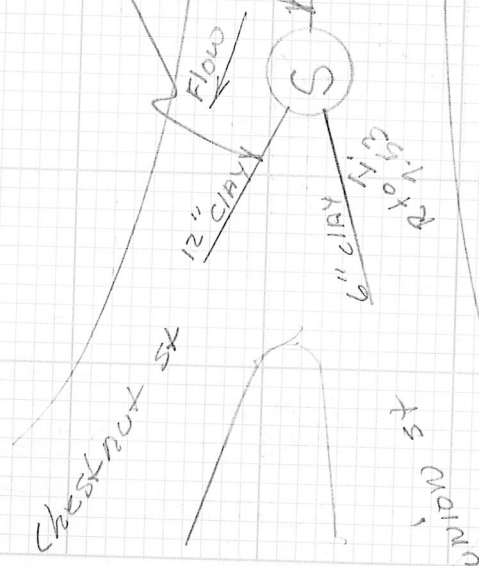


Chestnut St

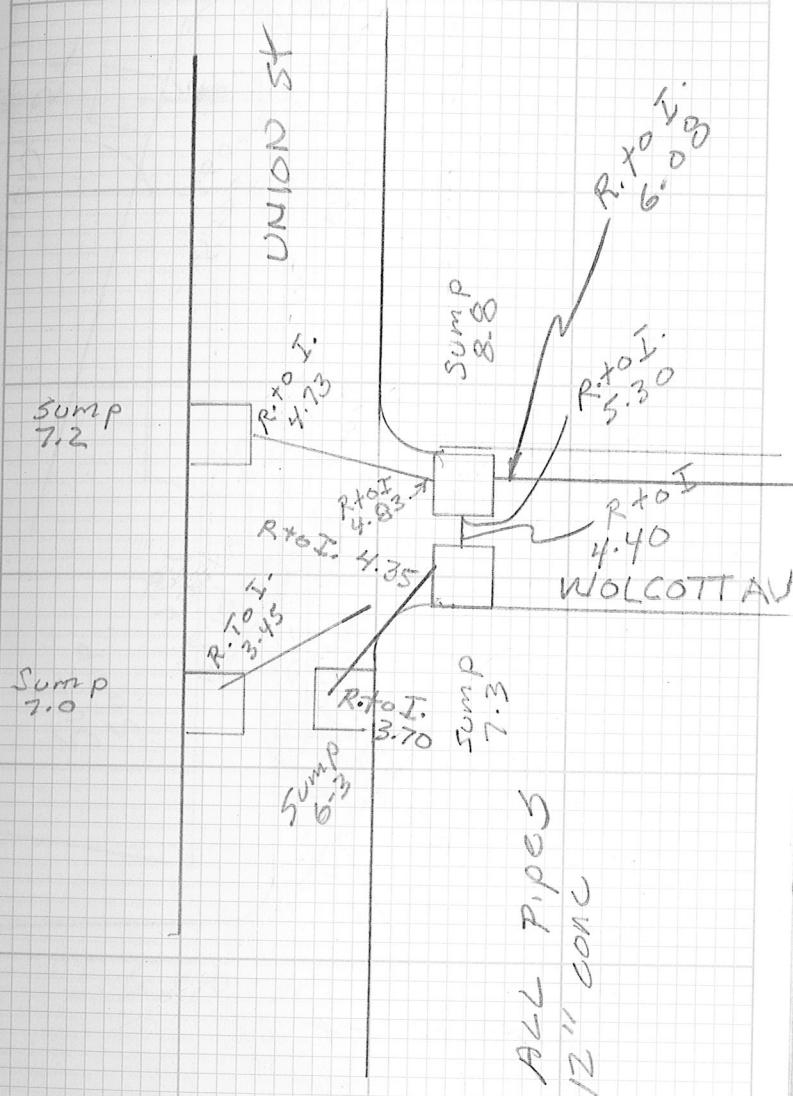


134 INV'S UNION ST
inst. Tape Wthr & Temp Date Crew
WOLCOTT AVE.

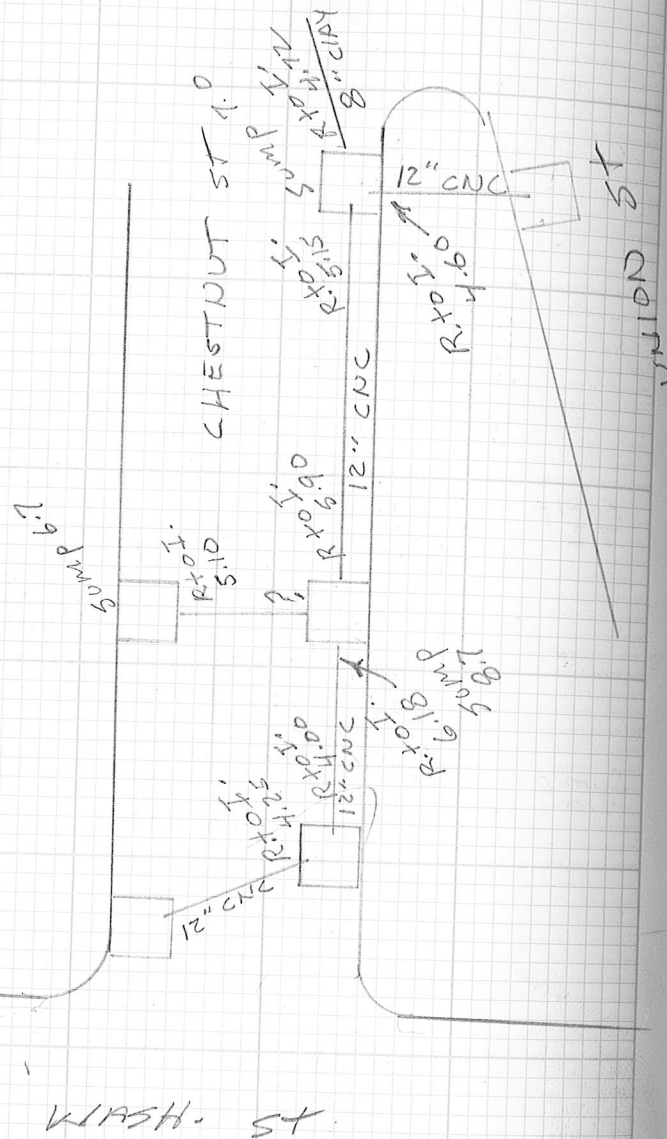
These 2 INVS
from R.M.
Approx. same



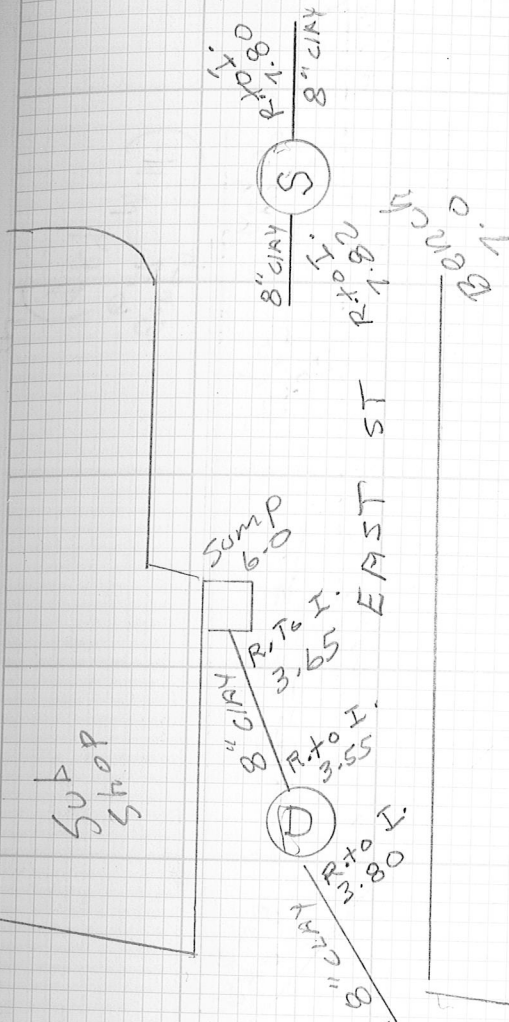
KIRK POLE F.B. 609 135
inst. Tape Wthr & Temp Date Crew
10-04 GC KN



136 INV'S CHESTNUT ST
Inst Tape Wthr & Temp Date Crew



WALPOLE F.B. 609 137
Inst Tape Wthr & Temp Date Crew



AUTO
BODY

138

ZNU'S

EAST

ST

F.B. 609

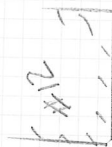
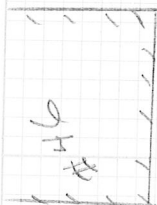
inst.

Tape

Wthr & Temp.

Date

Crew



8" CLAY

S

4' x 8' 8"

8" CLAY

EAST ST

4' x 8' 8"

S

4' x 8' 8"

Bench

(Dry M.H.)
Bench
4' x 8' 8"

WIAL POLE

inst.

Tape

Wthr & Temp.

Date

Crew

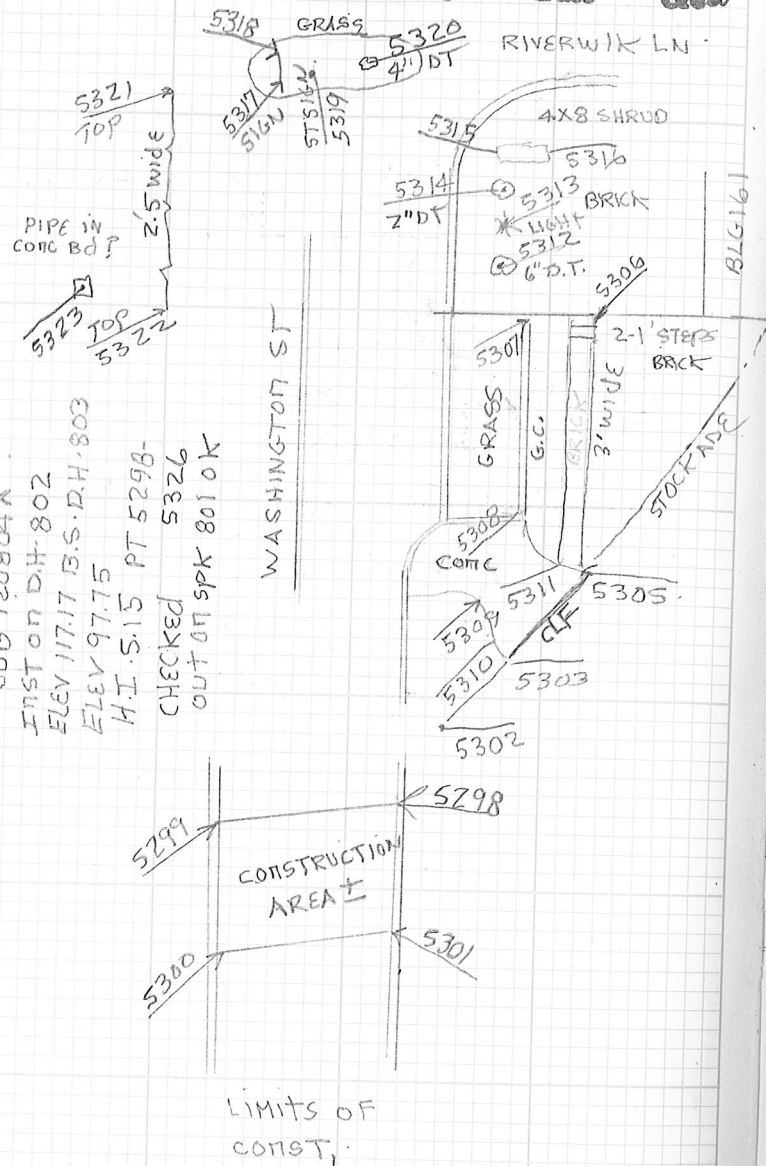
139

10-04

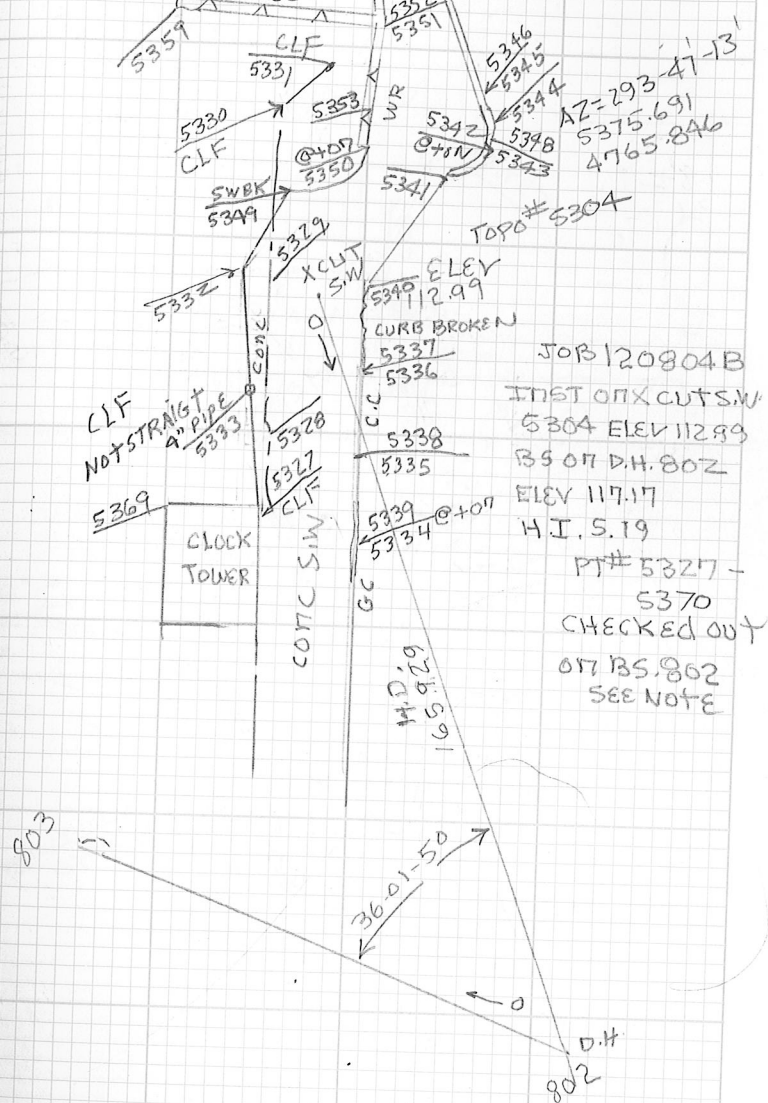
GC
KN

140 TOPO
Inst. Tape

WASHINGTON
Wthr & Temp. Date Crew



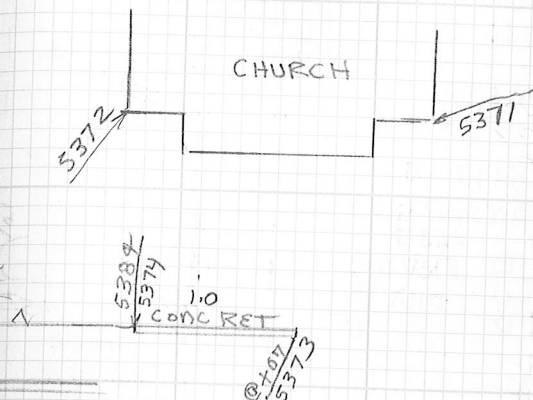
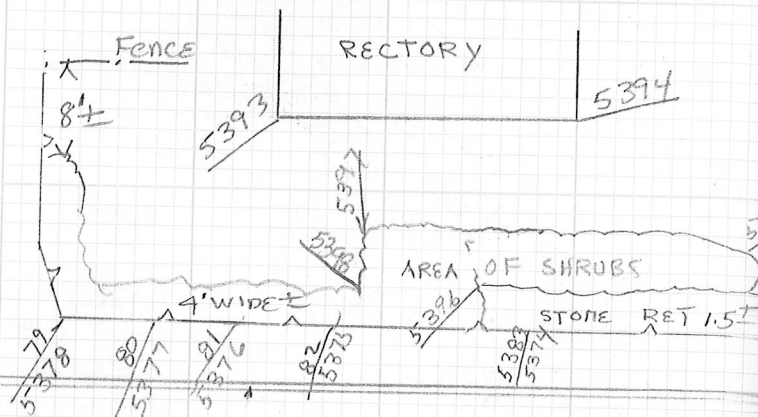
ST. WALPOLE
Inst. Tape Wthr & Temp. Date Crew
LEICA 703 58 12-08-04 A.P. GC



142
Inst.TOPO
TypeWASHINGTON
Wthr & Temp. Date

Crew

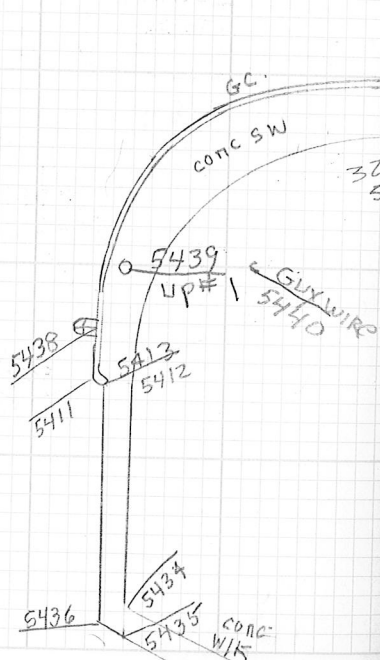
STREET

Inst.
LEICA
703Type
DWILPOLE
Wthr & Temp. Date
P.C. 40E 129 04143
Crew
AP
GC

WASHINGTON ST

SPK
X 801

EAST ST.



JOB 120904A
 INST SET ON SPK 3210
 EL=132.036 B.S. on
 SPK 801 EL=133.62
 HI 5.19 PT# 5371-5446
 CHECKED OUT
 ON D.H. 802 OK

144 **TOPO** **EAST ST FOR** **F.B. 609**
Inst **Tape** **Wthr & Temp** **Date** **Crew**

JOB 120904B

INST SET ON
 TOPO STA 4526 SPK
 EL=137.873

B.S. ON TOPO STA
 3210 EL=132.036

H.I. 5.21 # 5447-5511

CHECKOUT ON SPK STA
 4625
 ELEV OK
 DIST?

DIRT

4-6" CONC
 POST

5501

5500

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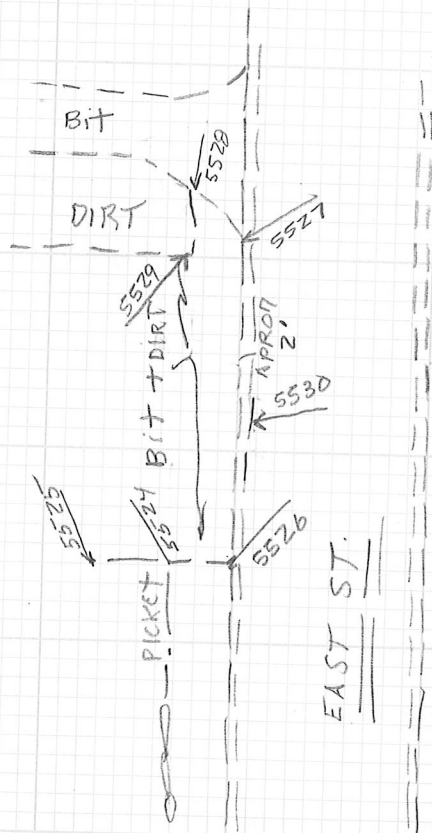
5500

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146 TORO EAST ST FOR F.B. 609
 inst Tape Wthr & Temp Date Crew
 LEICA 703 408 12-09-04 AP
 GC

JOB 120904C
 INST SET ON TOP
 STA SPK 4625 ELEV 142.558
 B.S. ON TOP STA 4526
 EL = 137.87
 H.I. 5.24 PT# 5512-5535
 CHECKED OUT ON TOP STA
 4527 ELEV 132.83 OK



WASHINGTON ST WALPOLE 147
 inst Tape Wthr & Temp Date Crew

148

TOPO

JUNE ST AT WASHINGTON

inst

Tape

Wthr & Temp.

Date

Crew

WASHINGTON ST

5558
TELH

5552

GRASS

5553

BERM

CONC

DR. WY

BIT

5538

5537

5550

5" CONC POST

5541

5542

5546

5545

GRASS

BIT S.W.

COBBLE STONES

PLANTED AREA

BERM

JUNE ST

GC.

5539

5536

5543

5540

5546

BIT PARKING

STREET

WALPOLE F.B. 609

inst

LEICA
703

Tape

1

Wthr & Temp.

CLDY
RAIN

Date

40° 12-10-04

Crew

A.P.

G.C.

149

APPROX ETW

5554

BIT

BIT

#259

BIT

PARKING

JOB 121004A

INST SET ON TOPO STA

3066 ELEV 136.288

BS. ON TRAV SPK 800

ELEV 132.68

HI 5.20

PT# 5536

(ELEV CHECKED OUT ON TELH)

CHECK OUT ON BS.

SPK
80/
599/86

152 ADDITIONAL LOCATIONS

F.B. 609

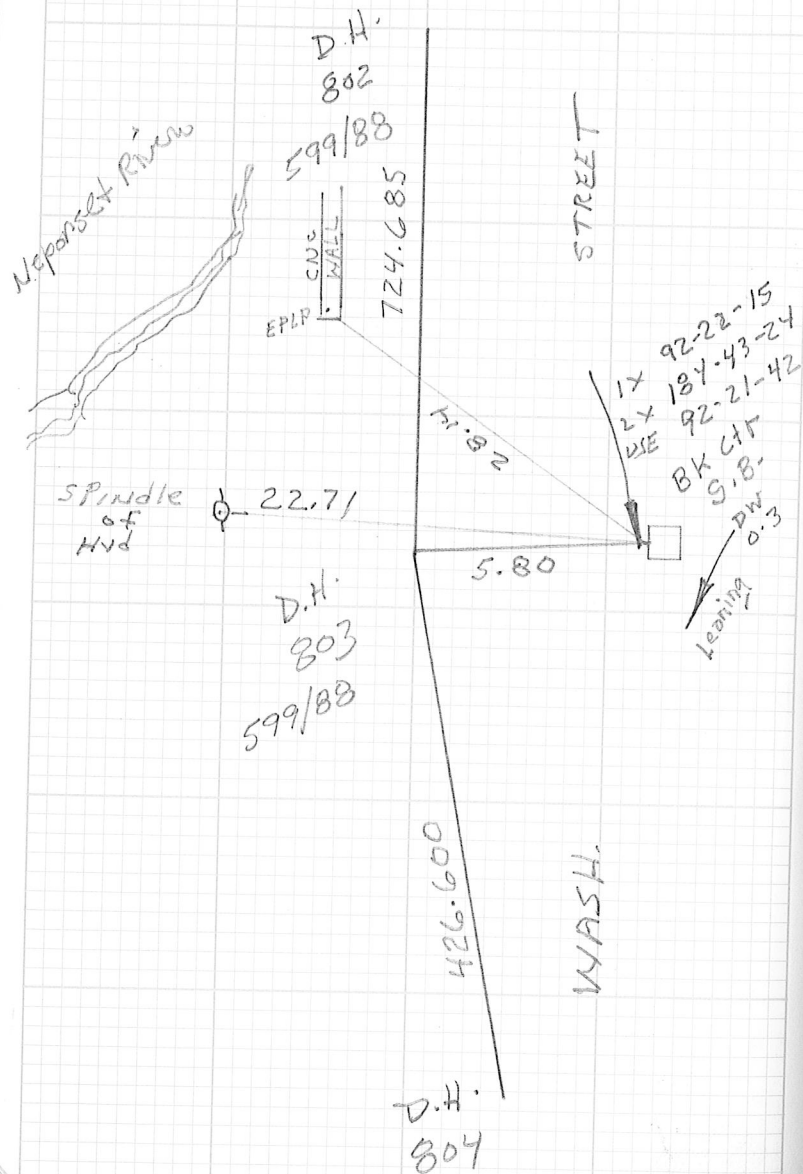
inst.
TC

Tape
30

Wthr & Temp.
54.6 W 30

Date
1-5-05

Crow
66



WALPOLE

153

inst.

Tape

Wthr & Temp.

Date

Crow

154

inst.

Tape

Wthr & Temp.

Date

Crew

inst.

Tape

Wthr & Temp.

Date

155
Crew

156
Inst.

Tape

Wthr & Temp.

Date

Crew

Inst.

Tape

Wthr & Temp.

Date

157
Crew

158

inst

Tape

Wthr & Temp

Date

Crew

159

inst

Tape

Wthr & Temp

Date

Crew

160
inst

Tape

Wthr & Temp

Date

Grav

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