

01

NORFOLK COUNTY
ENGINEERS DEPT.

No. 401

F.B. 401

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

781-461-6128

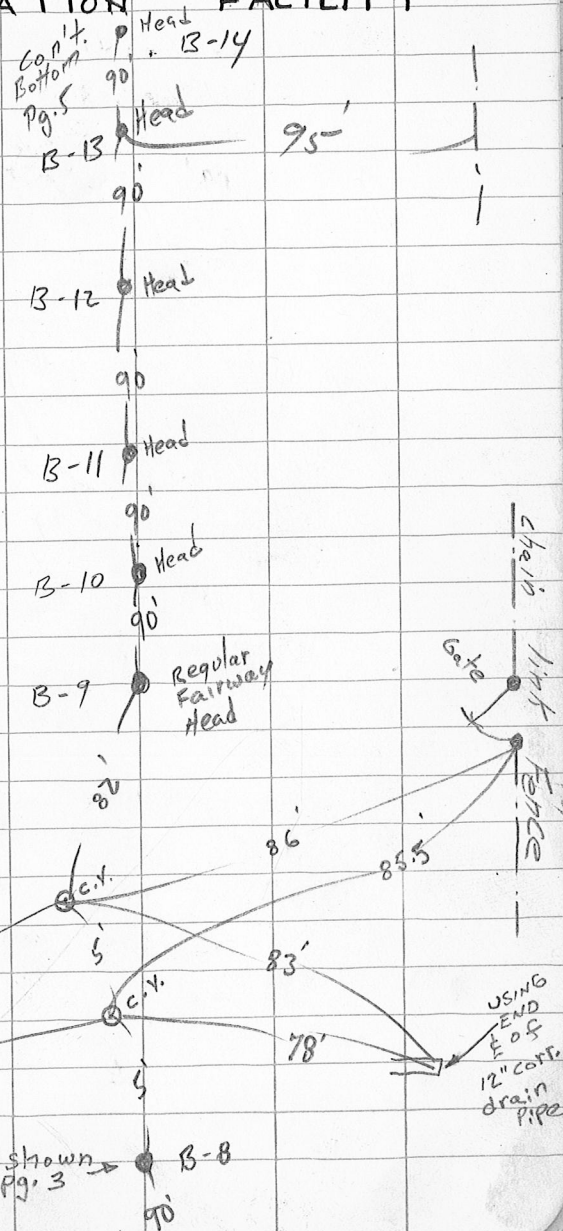
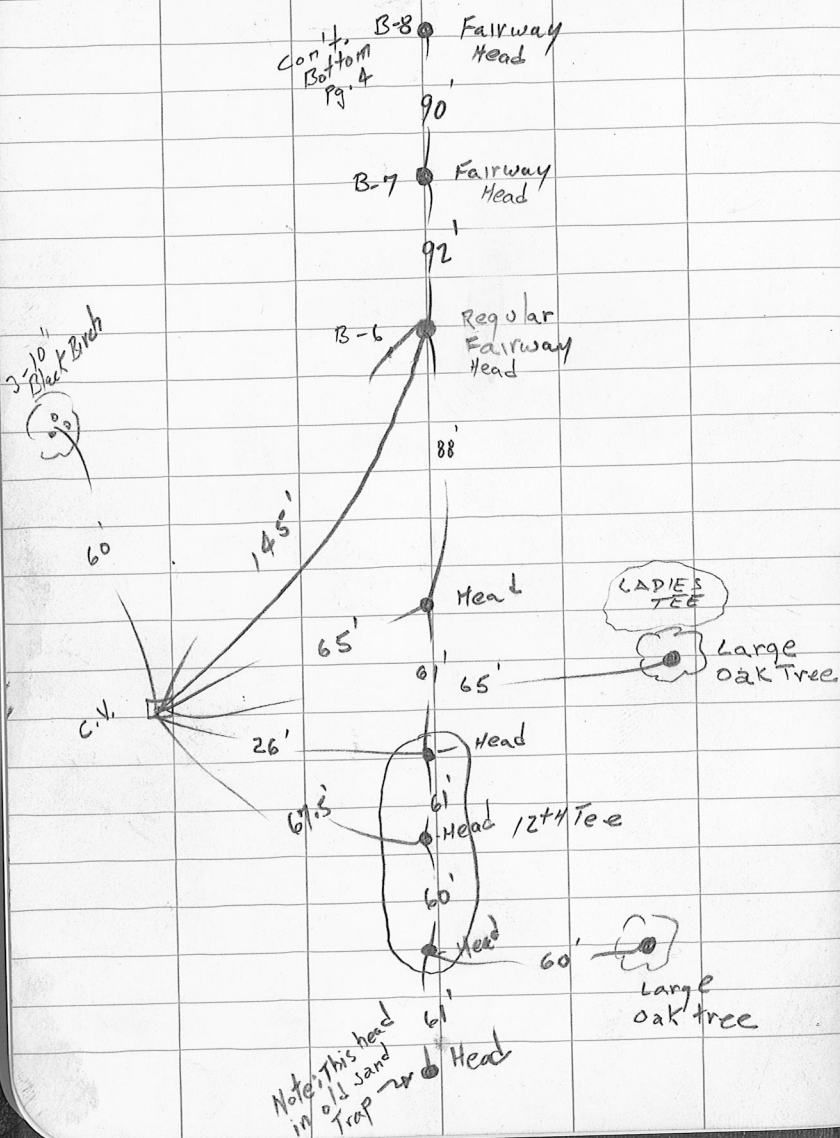
1/401

Inst.	Tape	Wear & Temp.	Date	Crew
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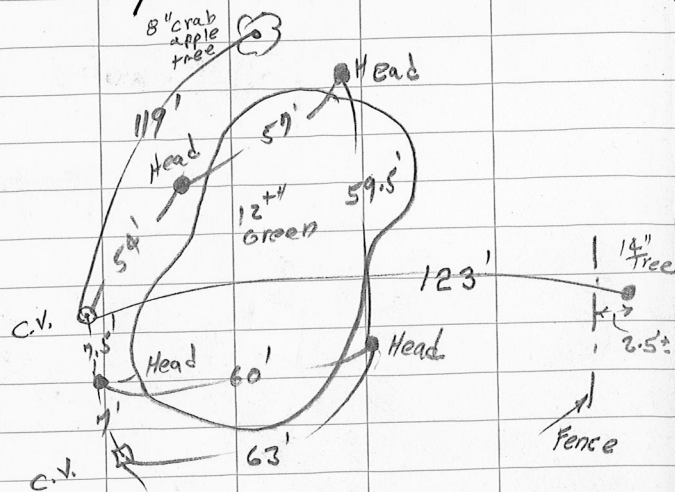
2

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

3/401	NORFOLK COUNTY WOLLASTON RECREATION FACILITY	Head	13-14
"AS BUILT" LOCATIONS 12 TH FAIRWAY		Cap't. Bottom	90
IRRIGATION SYSTEM		Pa. 5	Head



5/401 NORFOLK COUNTY WOLLASTON
12th Fairway locations con't.



B-17 Head

B-16 Head

B-15 Head

B-14

Head shown at
top of Pg. 4

90'

90.5'

90'

90'

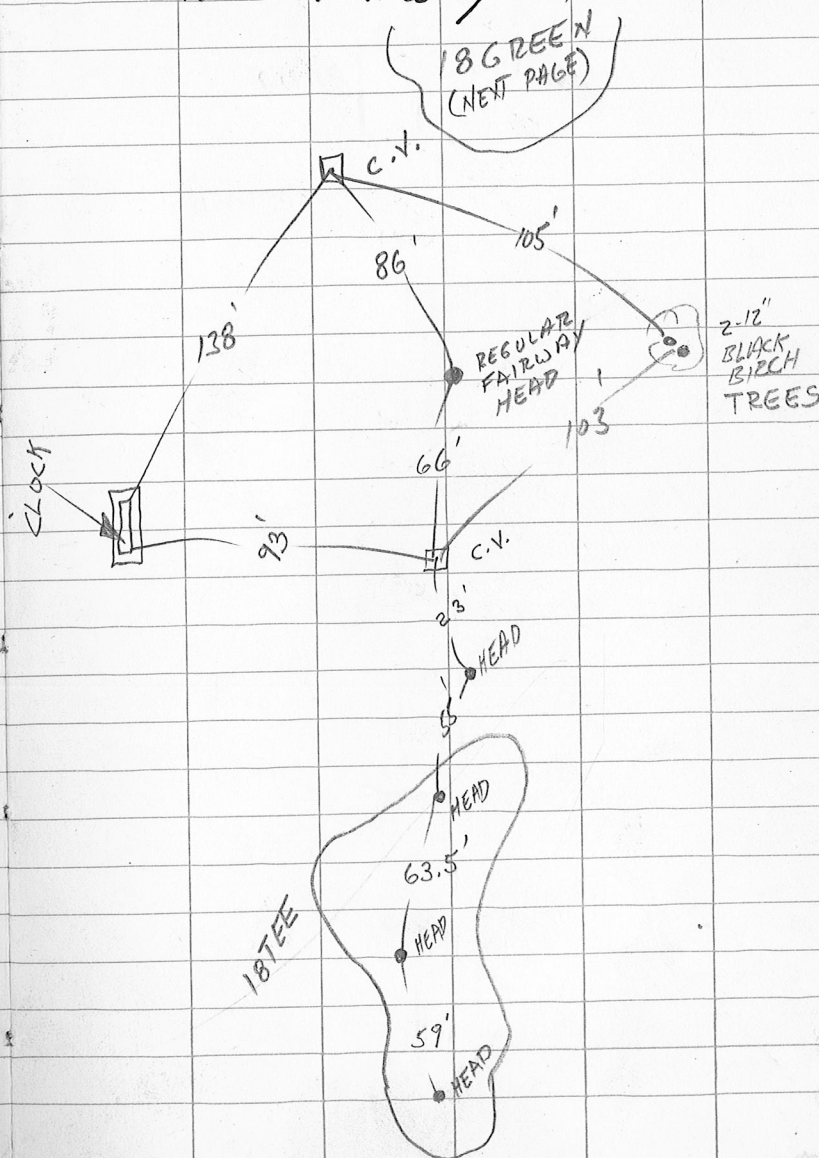
88.5'

RECREATION

FACILITY

18th

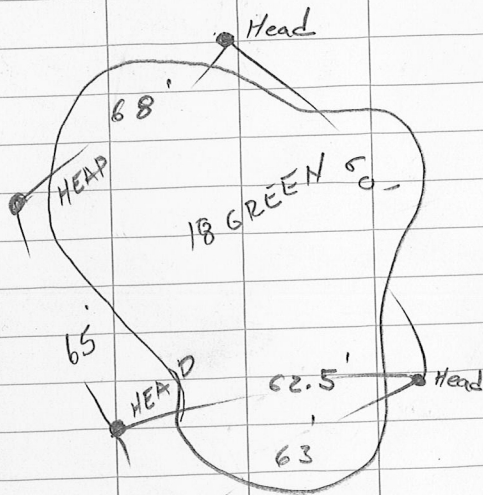
Fairway "AS BUILTS"



1/401

NORFOLK COUNTY WOLLASTON

18TH FAIRWAY "AS BUILT" LOCATIONS cont.



C.V.
TIES TO
THIS C.V. ON
PG. 6

86'
HEAD

8

RECREATION FACILITY

14TH FAIRWAY "AS BUILT"

cont. on
bottom pg. 9

90' Fairway
Head

REGULAR
FAIRWAY
HEAD

113'

C.V.

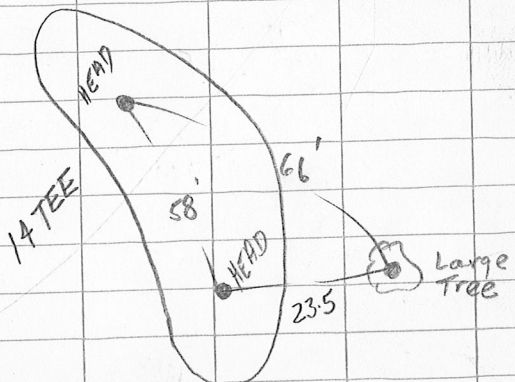
67'

66'

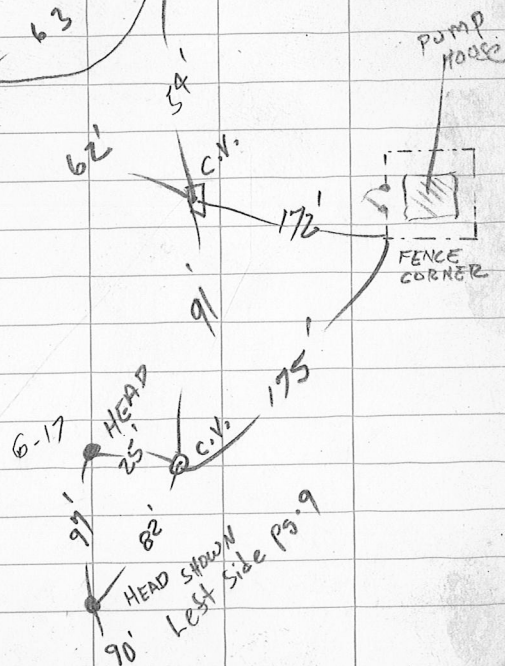
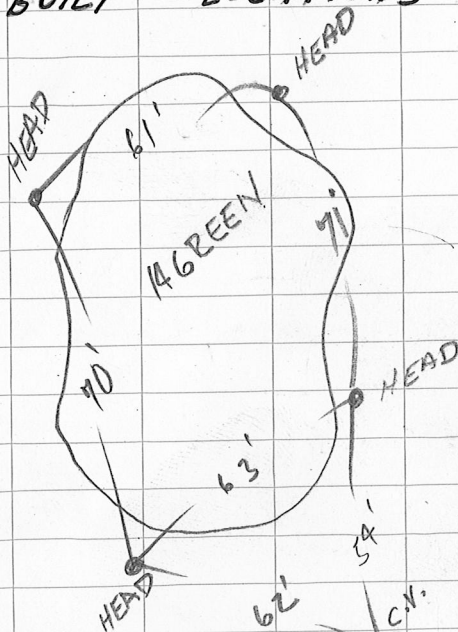
16' Cedar
Tree

14 Ladies Tee

31'
HEAD

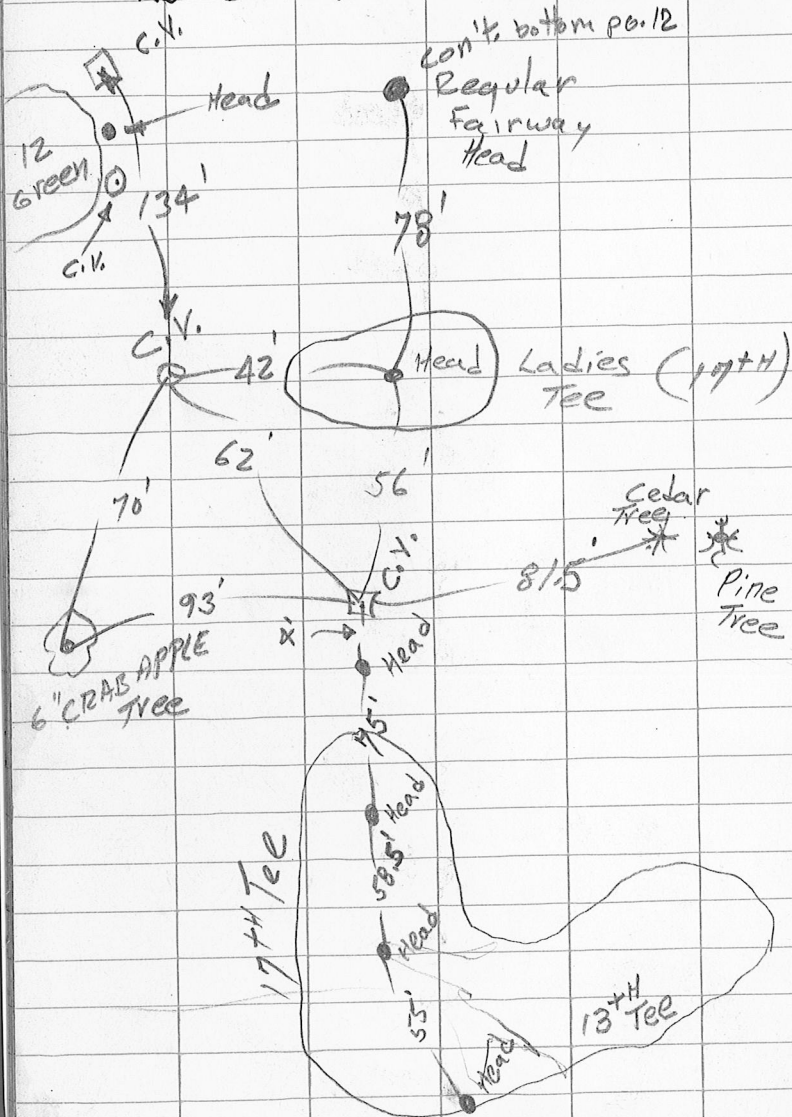


14th Fairway



11/40/ NORFOLK COUNTY WOLLASTON RECREATION

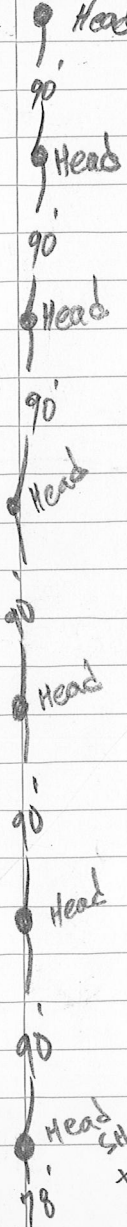
"AS BUILT" LOCATIONS 17th Fairway



FACILITY 12

con't. bottom pg. 13

17th Fairway



Head shown on top pg. 11

13/
401

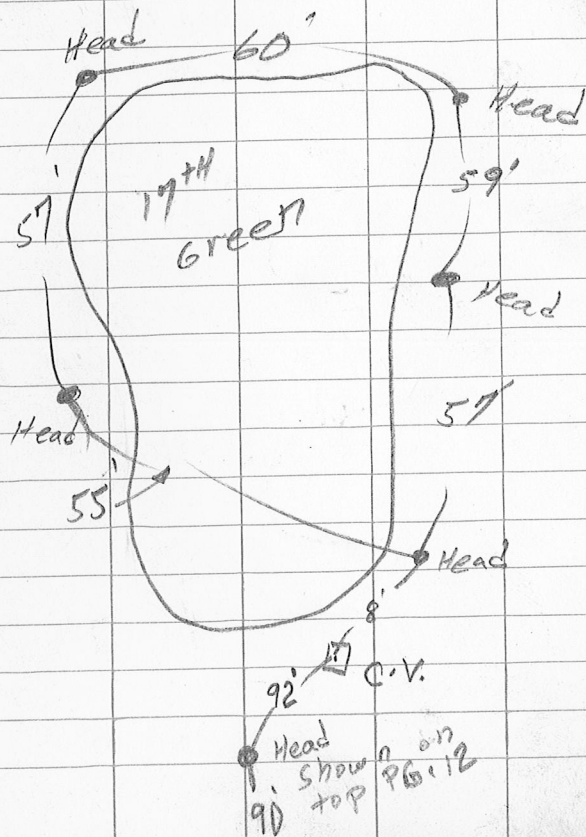
NORFOLK COUNTY WOLLASTON

RECREATION

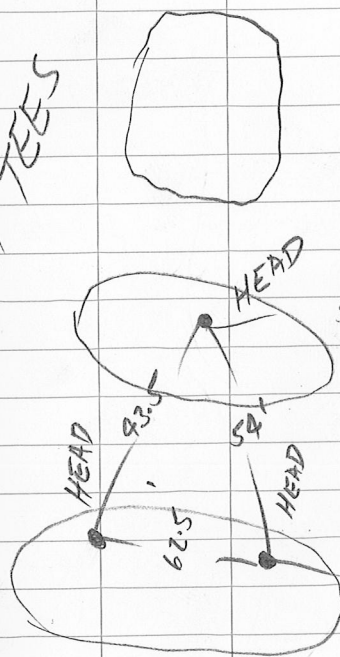
FACILITY

14

10th Fairway "AS BUILTS"



10 X H
TEES



HEAD cont. bottom PG. 15

89'

REGULAR FAIRWAY HEAD

53'

63'

14" Pipe

58'

C.V.

61'

19'

C.V.

27'

63'

9.5'

C.V.

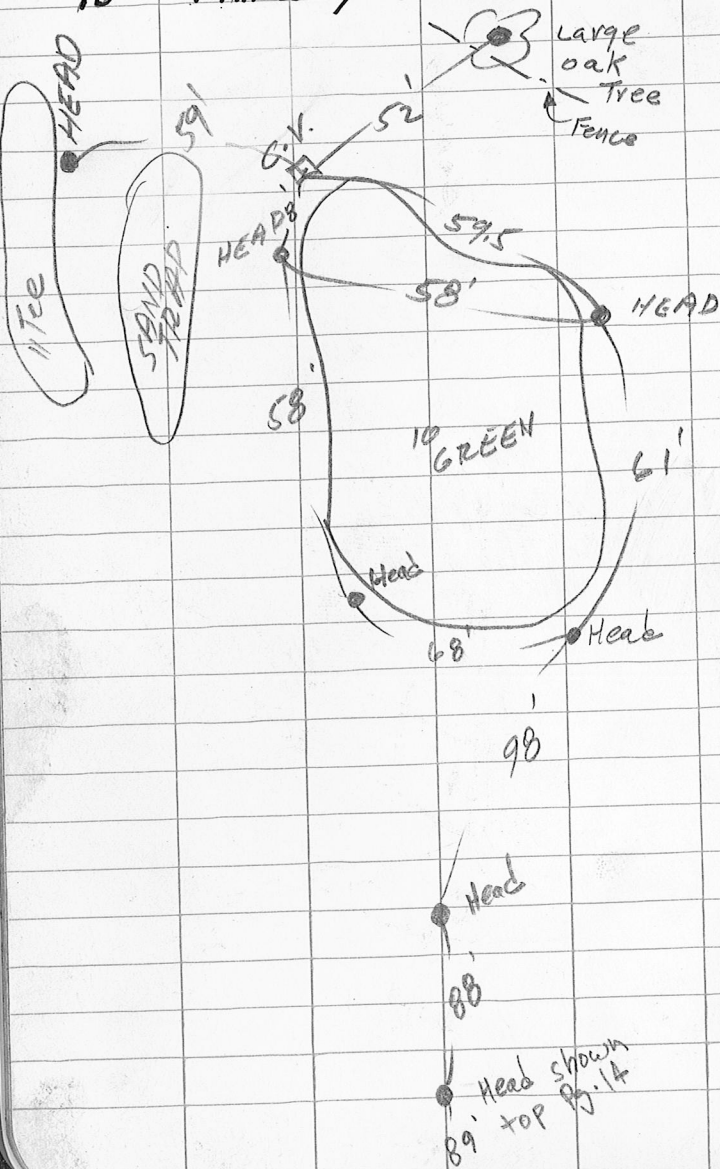
20.5'

HYDRANT

ROADWAY

Light Pole

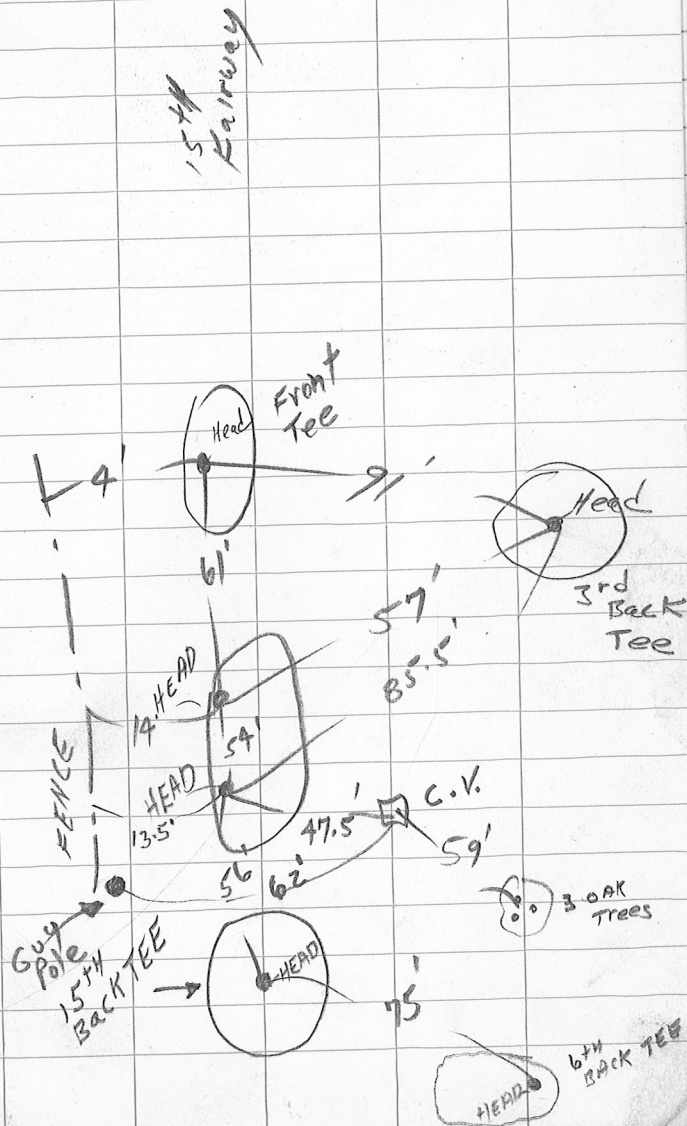
15 NORFOLK COUNTY WOLLASTON
10TH FAIRWAY con't.



RECREATION FACILITY
15TH TEES

401/16
"AS BUILTS"

W. SQUANTUM ST.



17/401

18

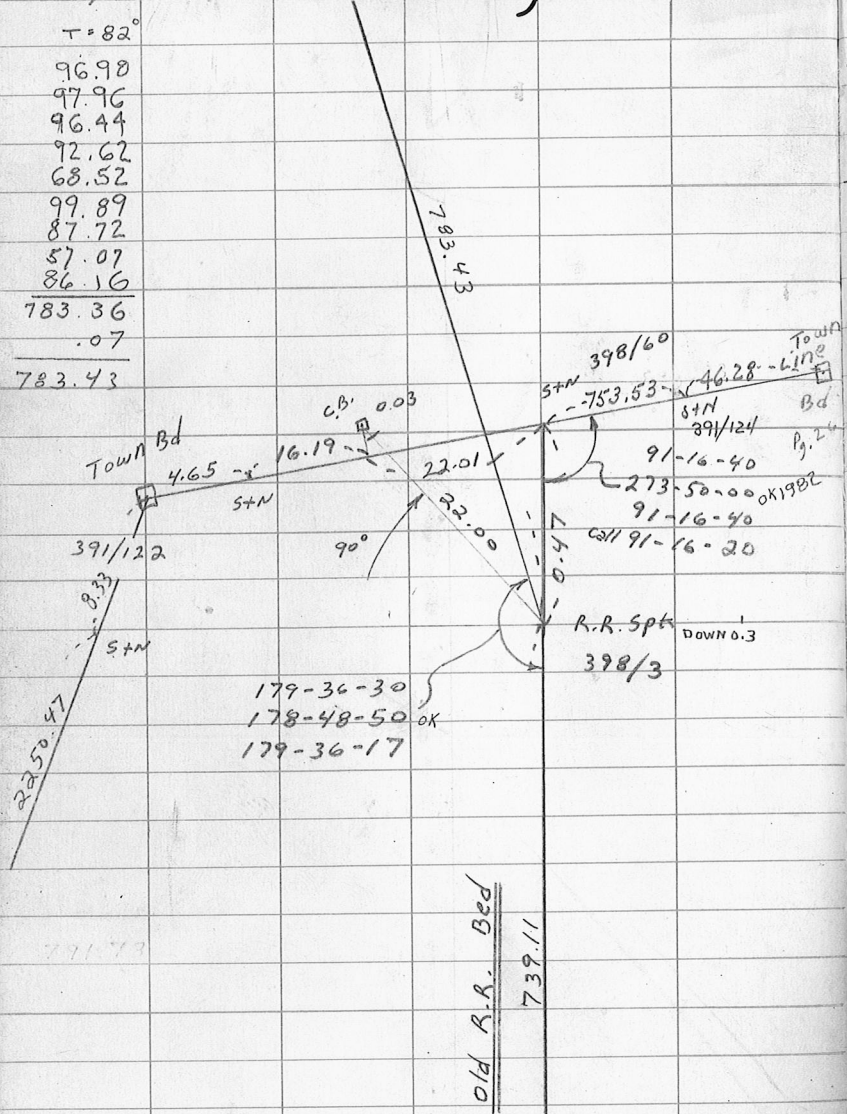
19/401 Norfolk County Wollaston Recreation Facility

Aug. 13, 1976

20

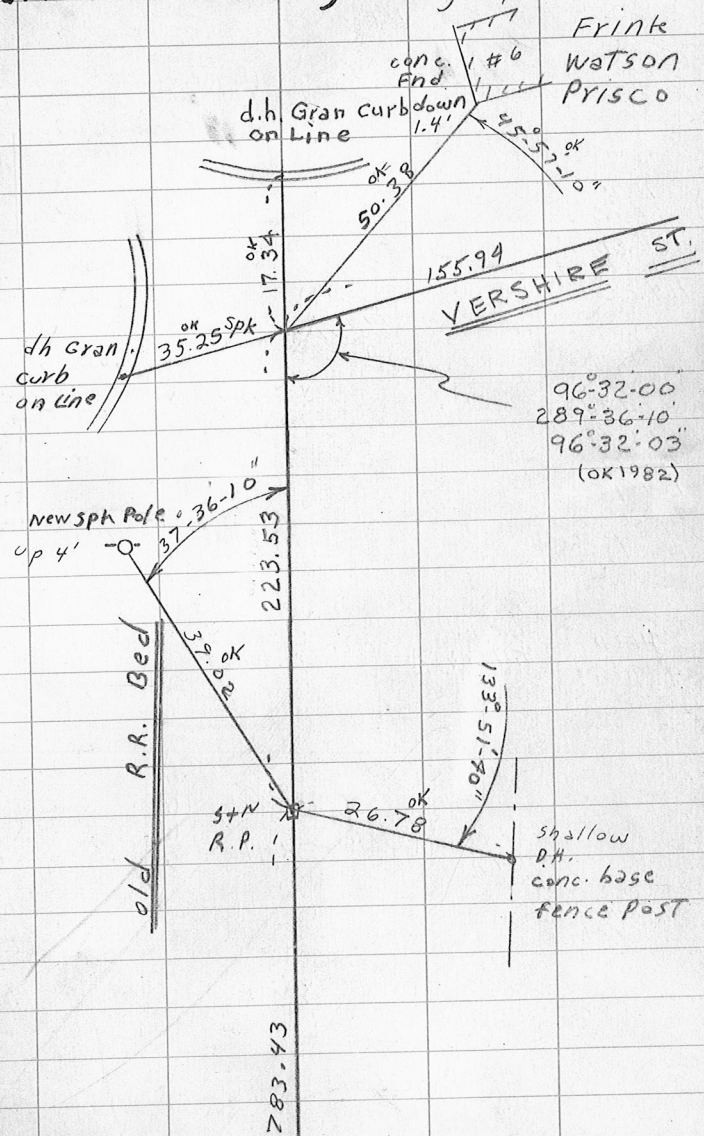
T = 82°
96.90
97.96
96.44
92.62
68.52
99.89
87.72
57.07
86.16

783.36
.07
783.43

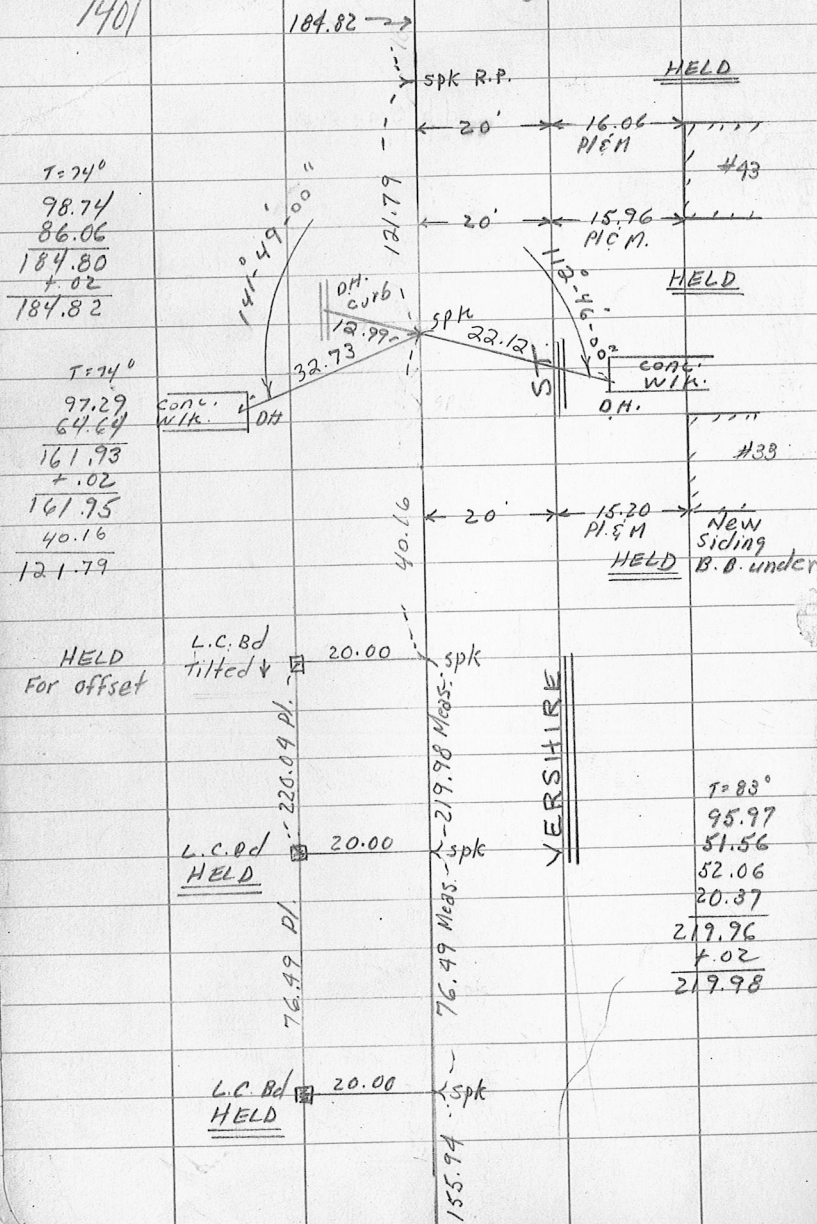


T = 83°
98.54
57.38
155.92
+.02
155.94

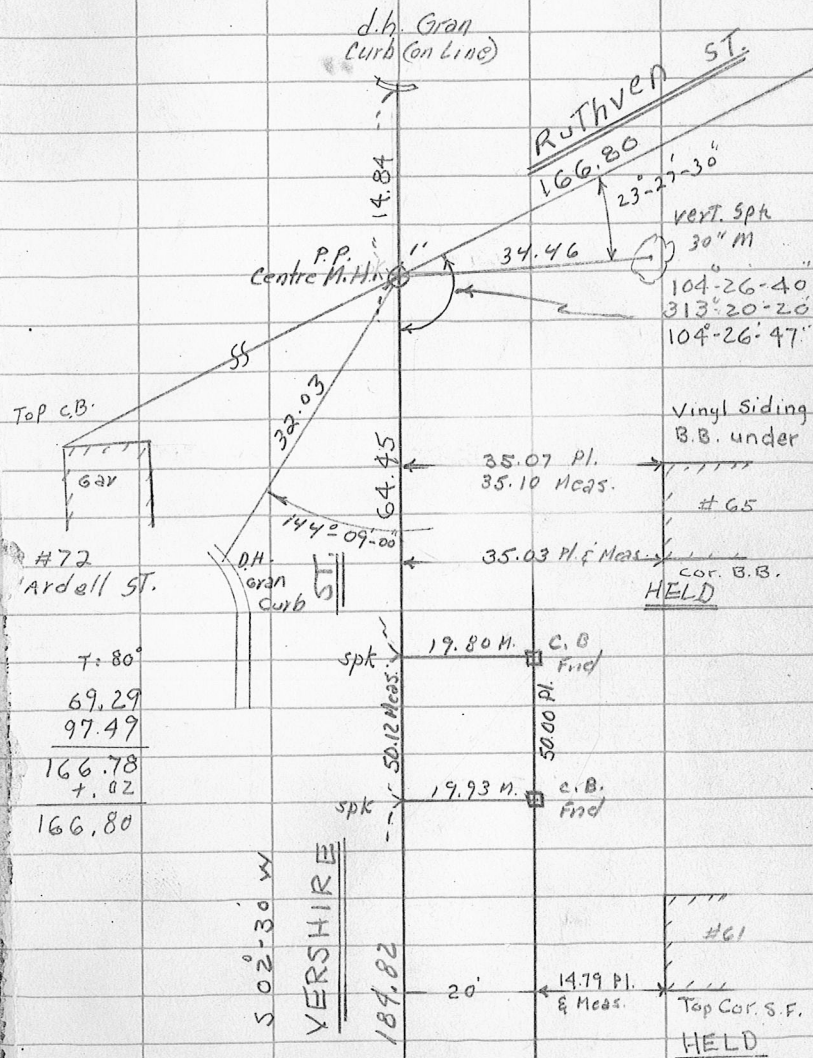
T = 80°
38.74
98.32
74.21
12.24
223.51
+.02
223.53

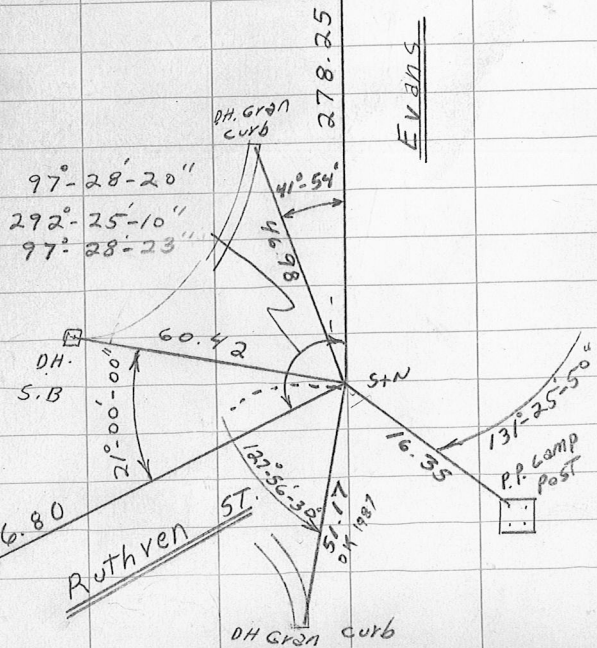
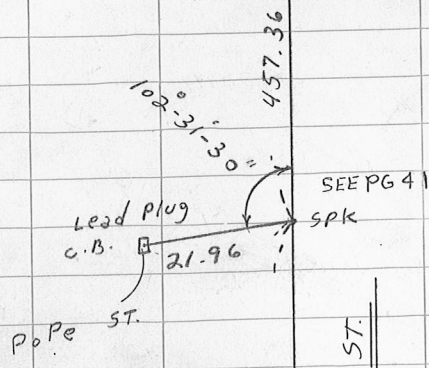


Norfolk County Wallaston



Recreation facility survey





T=74°
 99.25
 99.03
 79.96
 278.24
 +.01
 278.25

T=77°

99.60
 99.15
 90.77
 99.35
 98.97
 98.97
 97.62
 98.09
 99.55
 81.97
 87.52
 85.34

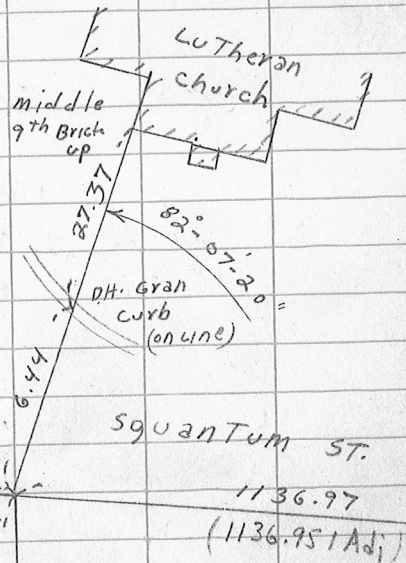
1136.90
 +.07
 1136.97

DH. Gran curb (on Line)

Harvard ST.

WEST
 43.03

SPK



68°-06'-10"
 204°-18'-00"
 68°-06'-00"

T=74°
 99.23
 77.96
 99.13
 92.81
 88.21
 457.34
 +.02
 457.36

457.36

ST.

EVANS

25/

401

Norfolk County Recreation

Facility Survey Traverse

26

24.60
17.93
42.53

NEW TIE
D.H. STONE

138°-16'-00"

11.83

Vert. spk clump
3" Chry.

42.52

45°-05'-50"

N 9°-15'E

#6

STN

717.25

717.245 Adj

114.40

ST.

SQUANTON

69°-11'-10"
138°-22'-30"
69°-11'-15"

53.23

OK

Town Line
Bound
in M.H.

221°-09'-30"

OK

Vert. spk
clump 4" Bir

1136.97

1136.951 Adj

West

29.17
13.35
42.52

739.11
783.43
RR. spk
B.19
0.47
STN B.19

46.28

STN 391/124

753.53

8°-00'E

178°-17'-30"
174°-52'-40"
178°-17'-33"

TOWN LINE B.P.

391/124

#7

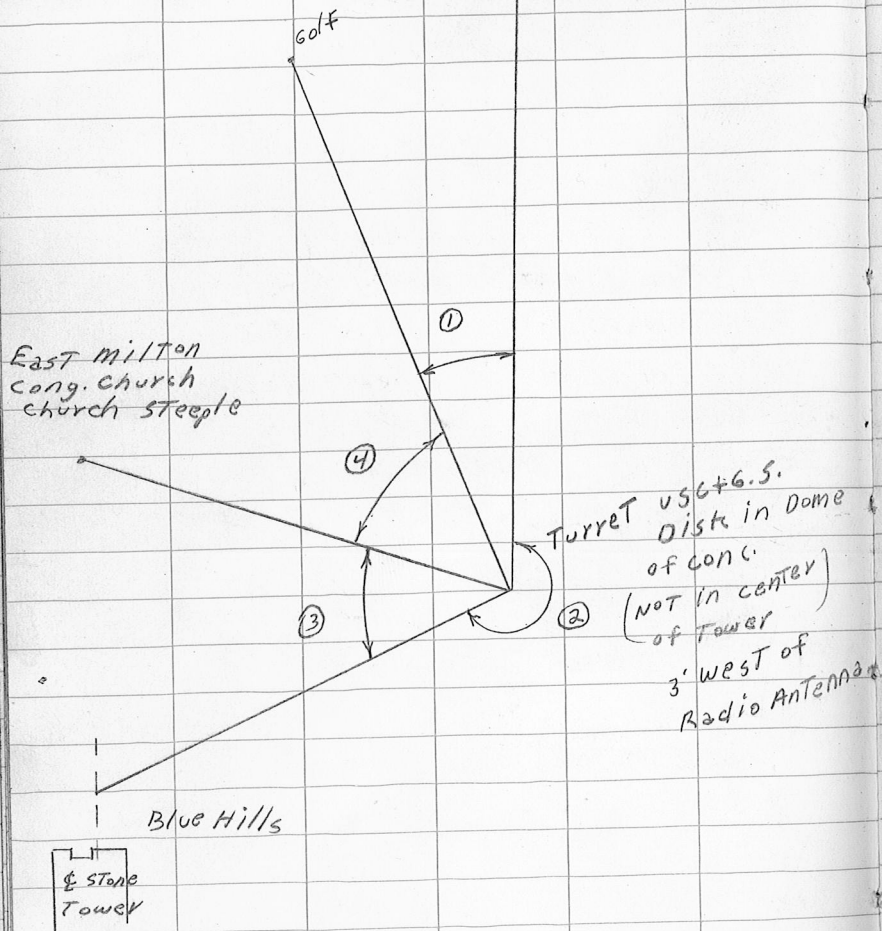
717.25
N 9°-15'E

T=76°
98.68
98.27
98.13
98.31
88.56
97.50
99.06
38.10
717.21
+.04
717.25

27/40

Triangulation

From

Striped mast
Prudential Tower

Turret

Aug 17, 1976

28

Calm + Clear

Frint ☒
Watson ☒
Bayer ☒
Kelleher ☒

① 1x = 19-06-00

3x = 57-18-00

6x = 114-35-40

12x = 229-11-50

19-06-00

19-05-57

19-05-59

② 1x = 258-44-20

3x = 56-13-20

6x = 112-27-10

12x = 224-55-10

258-44-26

258-44-31

258-44-36

③ 1x = 35-18-40

3x = 105-56-10

6x = 211-52-30

12x = 63-45-30

35-18-43

35-18-45

35-18-47

④ 1x = 46-50-40

3x = 140-32-00

6x = 281-04-20

12x = 202-08-40

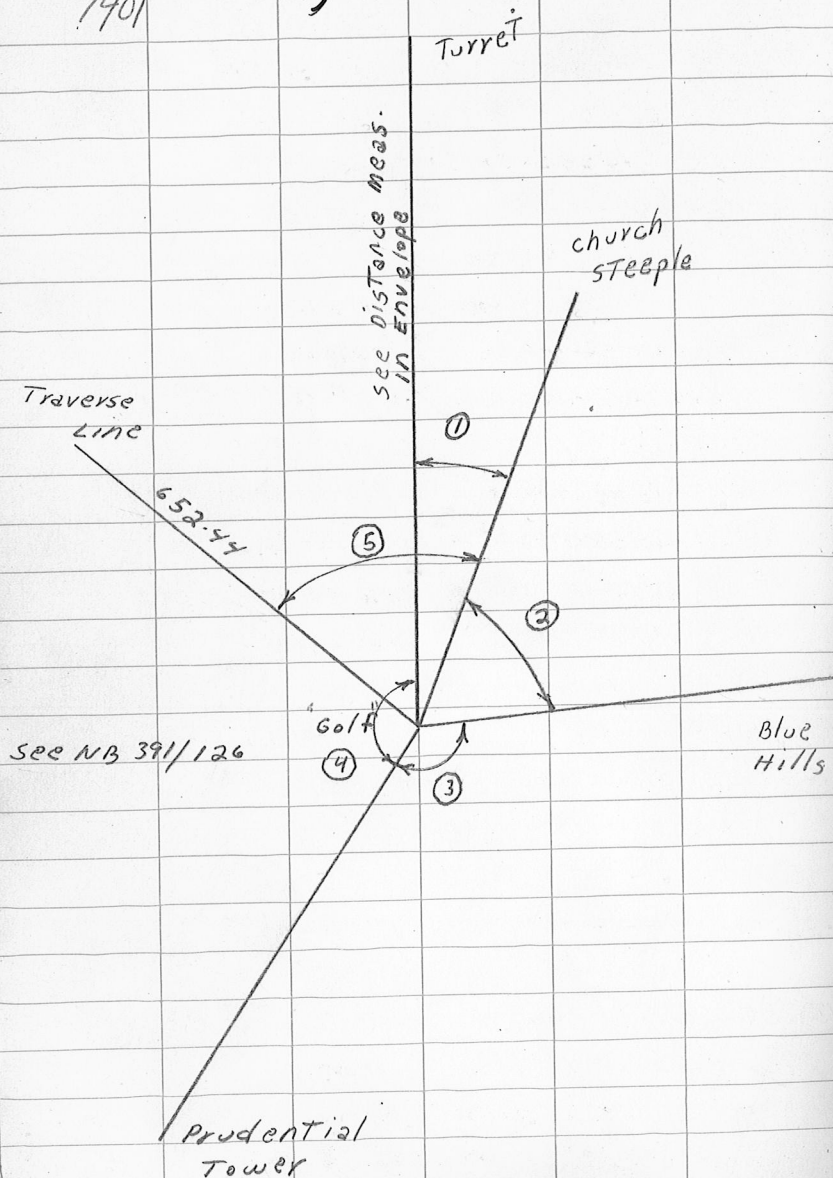
46-50-40

46-50-43

46-50-43

29/
401

Triangulation from "Golf"



Aug. 17, 1976 30

①

$1x = 20-31-50$	
$3x = 61-35-40$	$20-31-53$
$6x = 123-11-10$	$20-31-51$
$12x = 246-22-50$	$20-31-54$

②

$1x = 64-29-50$	
$3x = 193-29-40$	$64-29-53$
$6x = 26-59-10$	$64-29-52$
$12x = 53-59-00$	$64-29-55$

③

$1x = 118-04-20$	
$3x = 354-12-50$	$118-04-17$
$6x = 348-26-00$	$118-04-20$
$12x = 336-52-50$	$118-04-24$

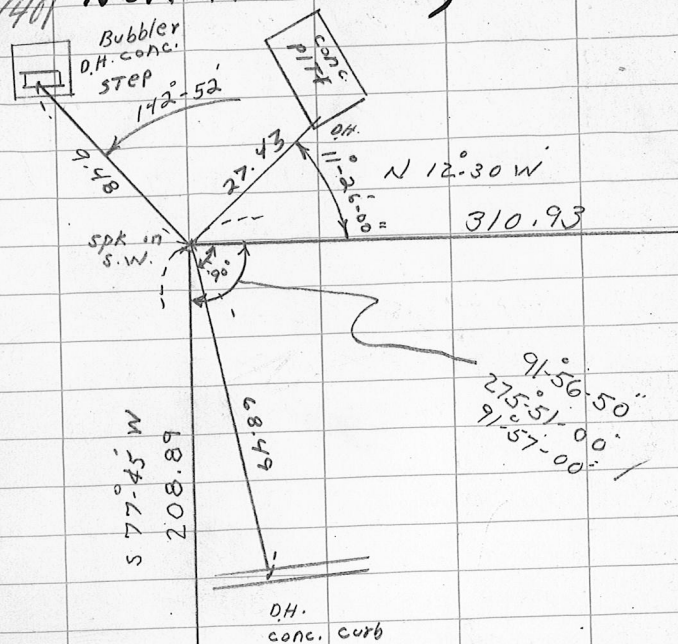
④

$1x = 156-53-50$	
$3x = 110-41-10$	$156-53-43$
$6x = 221-23-30$	$156-53-55$
$12x = 82-47-10$	$156-53-56$

⑤

$1x = 75-09-10$	
$3x = 225-27-30$	$75-09-10$
$6x = 90-55-50$	$75-09-18$
$12x = 181-51-00$	$75-09-15$

31/40 Norfolk County Recreation



278.25
EVANS

STN Pg 23

५॥

23777

0.00

 $T = 78^{\circ}$
$$\begin{array}{r} 29.55 \\ 89.75 \\ 89.57 \\ \hline 208.87 \\ + .02 \\ \hline 208.89 \end{array}$$

facility Survey for Location
New c/ub house

32

$$T = 77^{\circ}\text{C}$$
$$\begin{array}{r} 86.30 \\ 49.83 \\ \hline 136.13 \\ +.01 \\ \hline 136.14 \end{array}$$

D.H. Con Curb

d.h. Conc
Curb

N 62° 00' E
648.80

3pt 30" D

R.P. $\rightarrow$ dh Conc. Curb

107° 12' 50"
321° 38' 40"
107° 12' 53"

Hyd

W 12-30W

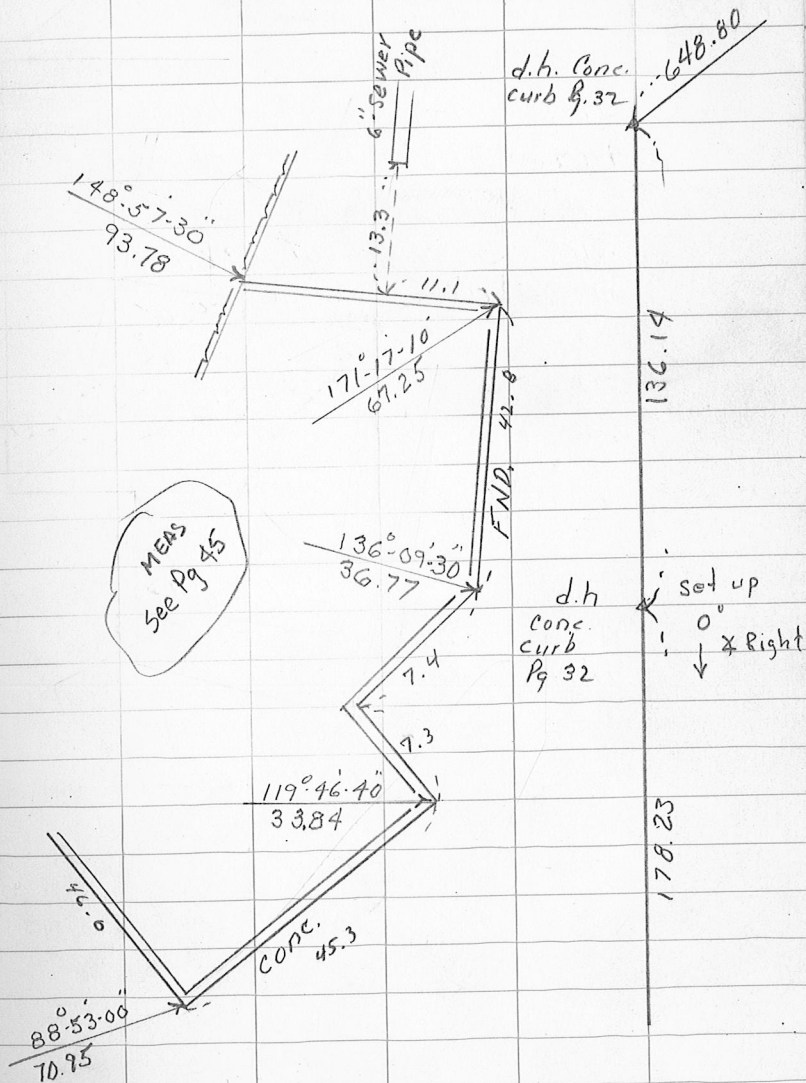
5+N
POL, 7.04

conc.
PITF.

$$T = 89^\circ$$
$$\begin{array}{r} 98.28 \\ 79.93 \\ \hline 178.21 \\ +.02 \\ \hline 178.23 \end{array}$$
 $T = 89^\circ$
$$\begin{array}{r} 65.09 \\ 90.22 \\ 99.36 \\ \underline{56.23} \\ 310.90 \\ + .03 \\ \hline 310.93 \end{array}$$


$$\begin{array}{r} 98.36 \\ 39.32 \\ 71.31 \\ 26.92 \\ 46.60 \\ 94.72 \\ 41.45 \\ 32.41 \\ 99.50 \\ 50.32 \\ \hline 37.80 \end{array} \quad \checkmark$$

64880

$$\begin{array}{r} 57.81 \\ 49.85 \\ \hline 107.66 \\ 01 \\ \hline 107.65 \end{array}$$


35/
401

Bench - Run in Wollaston

These Elevations are on City of

Sta & Offset	+	H.I.	-	Elev.	Adj
10.05		68.72		58.67	
1.85		67.09	3.48	65.24	
4.69		61.22	10.56	56.53	
2.74		61.09	2.87	58.35	
5.16		61.24	5.01	56.08	
11.80		72.40	0.64	60.60	
5.91		75.42	2.89	69.51	
			1.59	73.83	

CHECK

4.25		62.60		58.35	
11.01		72.73	0.88	61.72	
3.76		75.10	1.39	71.34	
			1.27	73.83	

Recreation Facility

Aug 1976

Quincy Base. in N.B. 74 R 116.17
County Env.

36

Remarks

Sill Hse #300 W. Squantum St. City Quincy NB 74/116

T.P. Gran Curb

T.P. stone in T.W.

Ruthven

NB 74/117

B.M. Top Spindle Hyd. Evans St. & ~~Vershire St.~~ (58.35)

B.M. Sill Hse #65 Vershire St. (56.05) NB 74/117

T.P. conc. curb

T.P. Conc. Curb

B.M. (County 68.16) R.R. Spk in root 30" Oak
near New Club House

diff. Between County & City of Quincy (5.67)

RUN

B.M. Top Spindle Hyd (see above)

T.P. Conc. Curb

T.P. Conc. Curb

B.M. RR spk (see above)

37 Elev. of 6" Sewer Pipe
at New Club House

+ 1.51

69.67
X

B.M. 68.16 R.R. spk
in root 30"0
(Pg 36)

- 7.59 T.P. 62.08

+ 4.97

67.05
X

6" Sewer Pipe
(Location Pg 34) $\leftarrow$ 9.16 INV.

- 4.78 T.P. 62.27

+ 7.40

69.67
X

- 1.51

B.M. 68.16 (See above)

401/38
Elev. Top Spindle Hyd Near
Practice Green. Location Pg. 32

B.M. 68.16 R.R. spk in
root 30"0 Pg 36

+ 2.81

70.97
X

5.33 Top Spindle Hyd. Location
Pg 32
65.64

- 6.53 T.P. 64.44 Conc. Curb

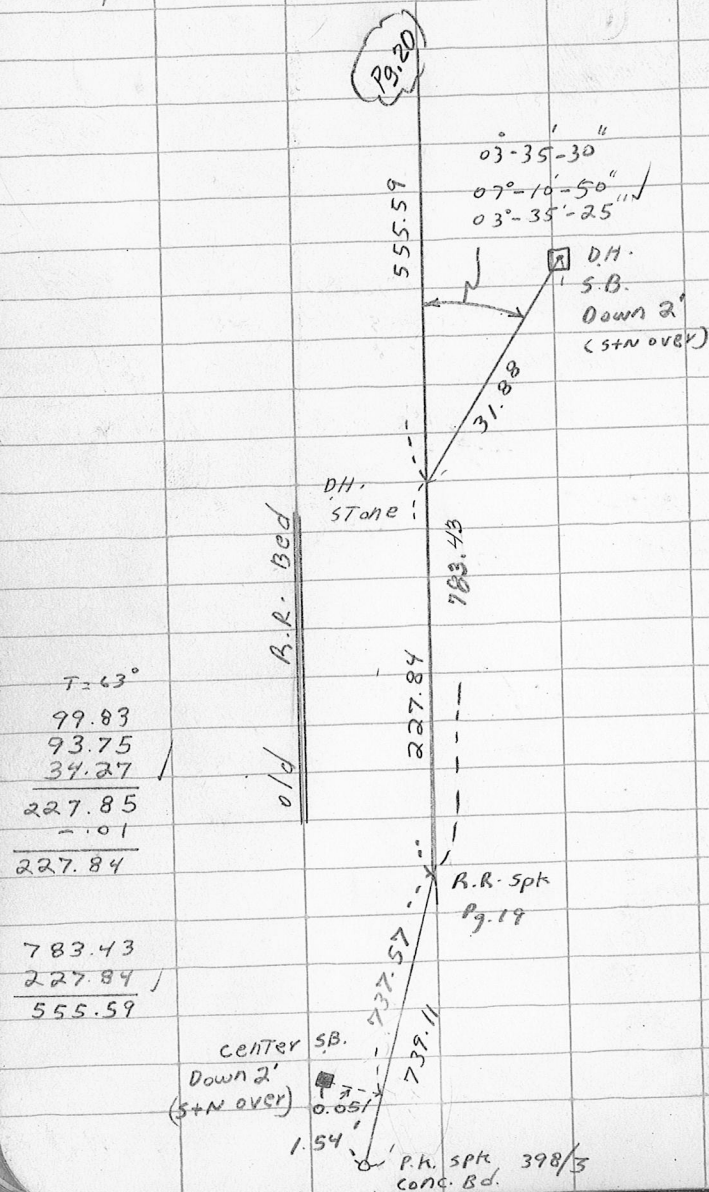
+ 6.33

70.77
X

- 2.61 68.16 B.M. R.R. spk in root
30"0 Pg 36 (68.16)

39/401 Norfolk County Recreation facility Prop cor's

40



T=63°

99.83

93.75

34.27

227.85

- .01

227.84

783.43

227.84

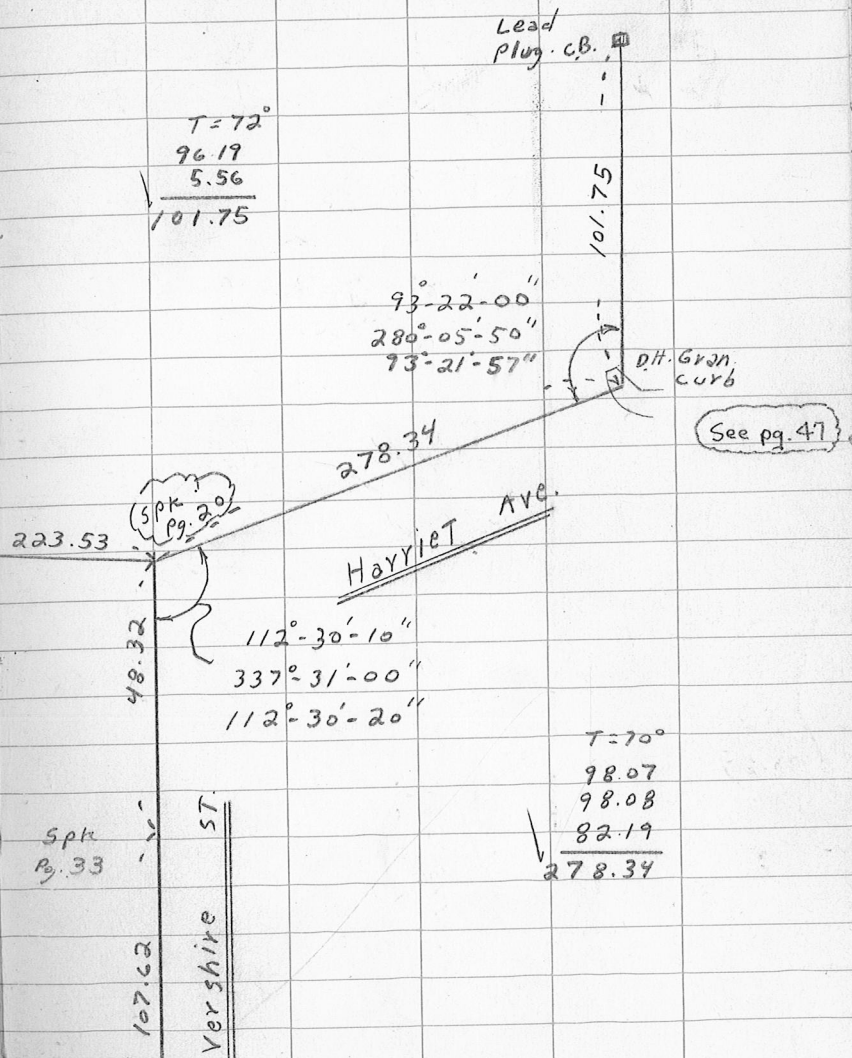
555.59

739.11

1.54

737.57

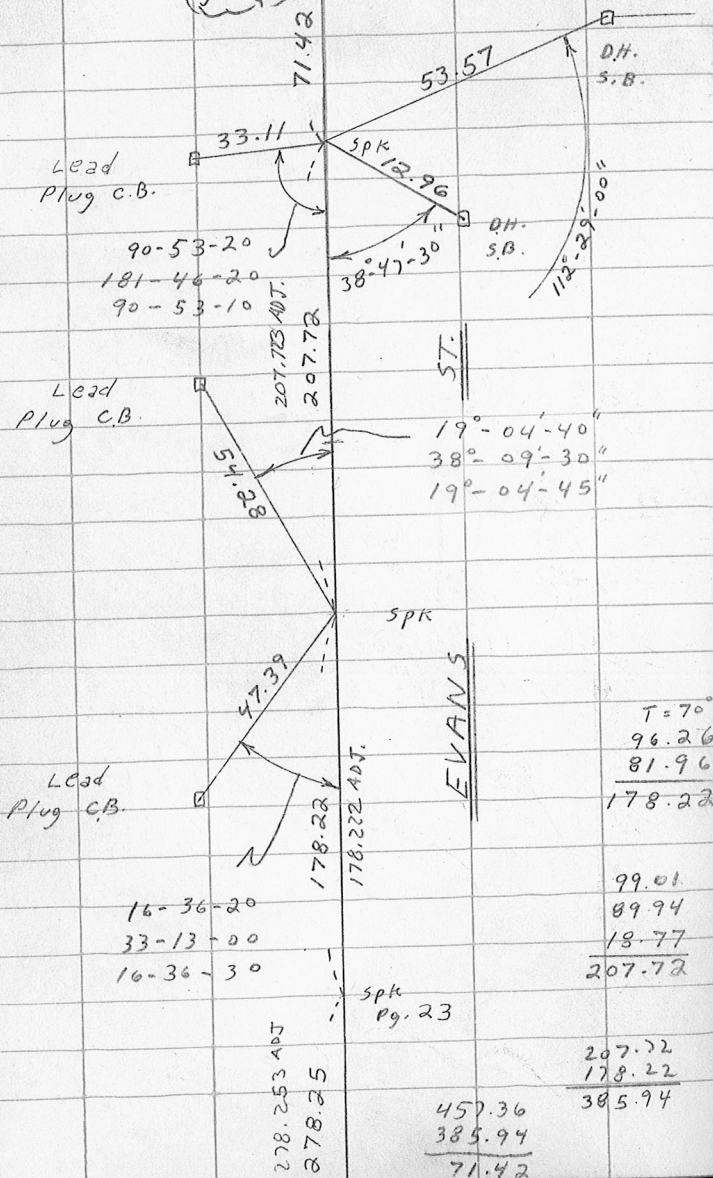
facility Prop cor's



Plotted

(see Pg. 42
324)

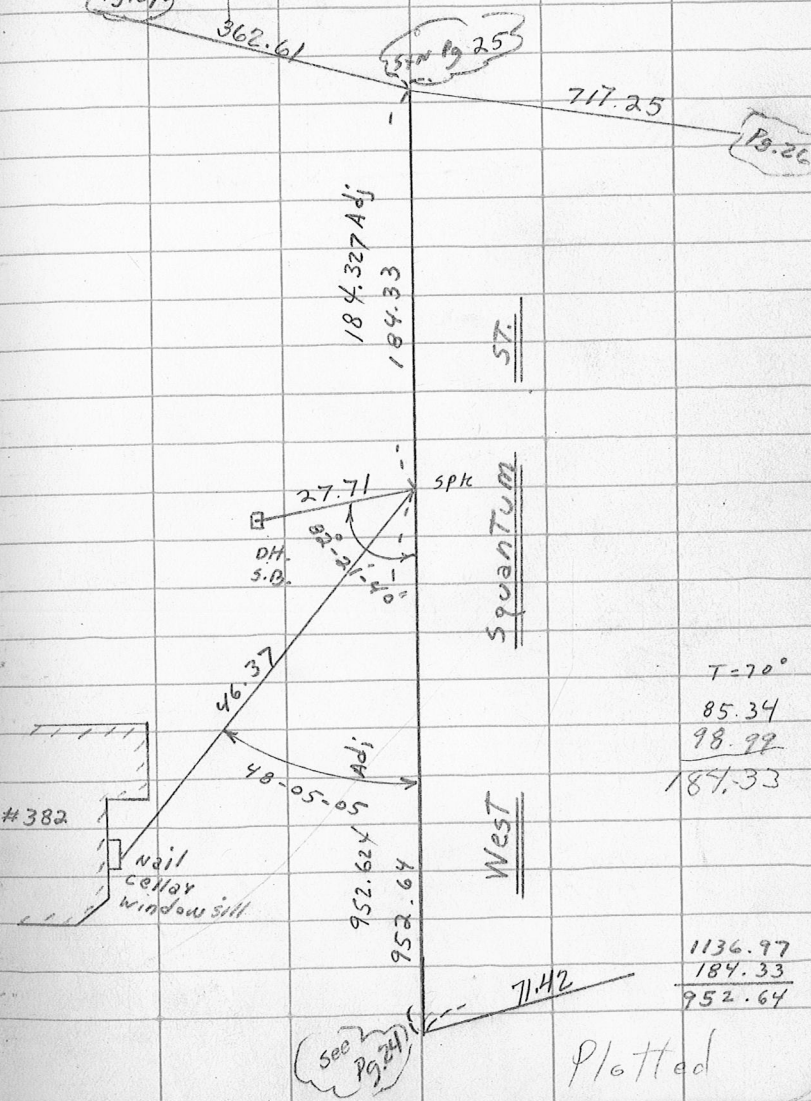
West Squantum St.



Pg. 513

5-19-25

Pg. 26



Plotted

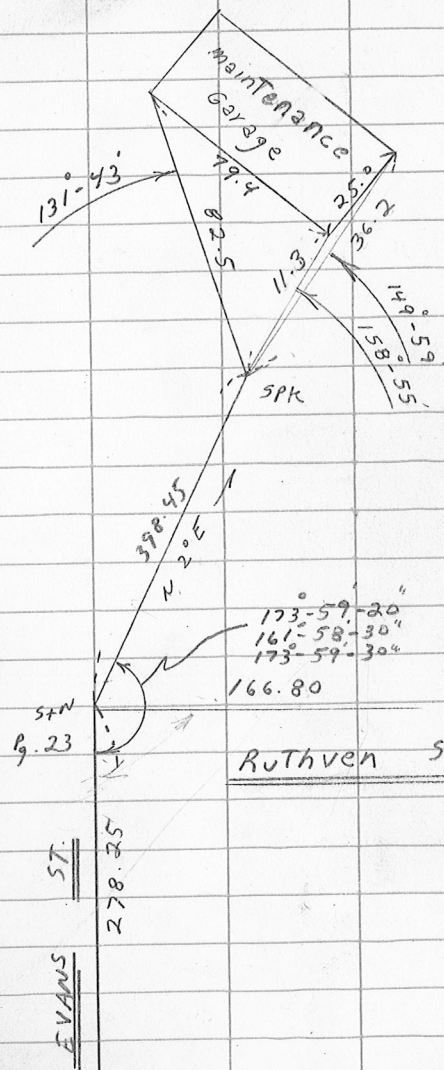
43 Norfolk County Recreation



Detail @ Entrance to Golf Course

401/44

9/3/76



$T = 68^\circ$

97.91

98.29

98.19

52.09

51.97

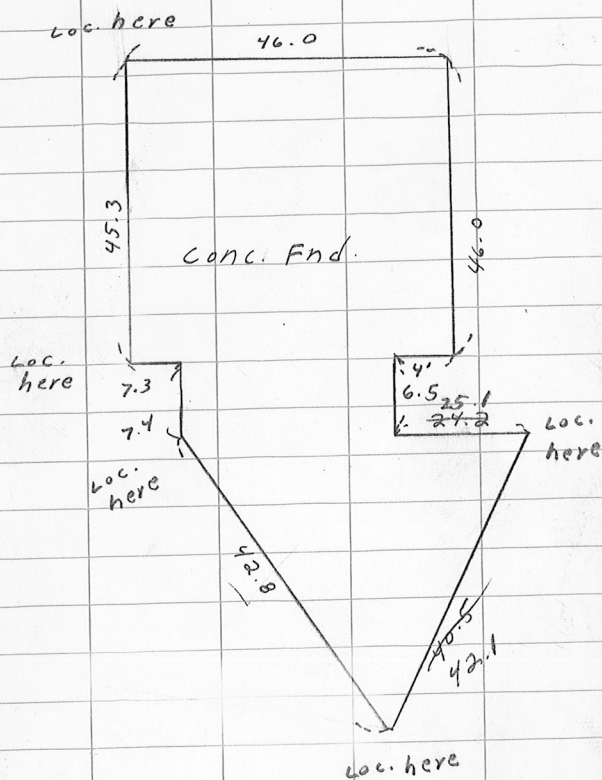
398.45

Plotted

45/

401

Norfolk County Recreation
meas. new clubhouse



Note: see Pg. 34 For Location

46

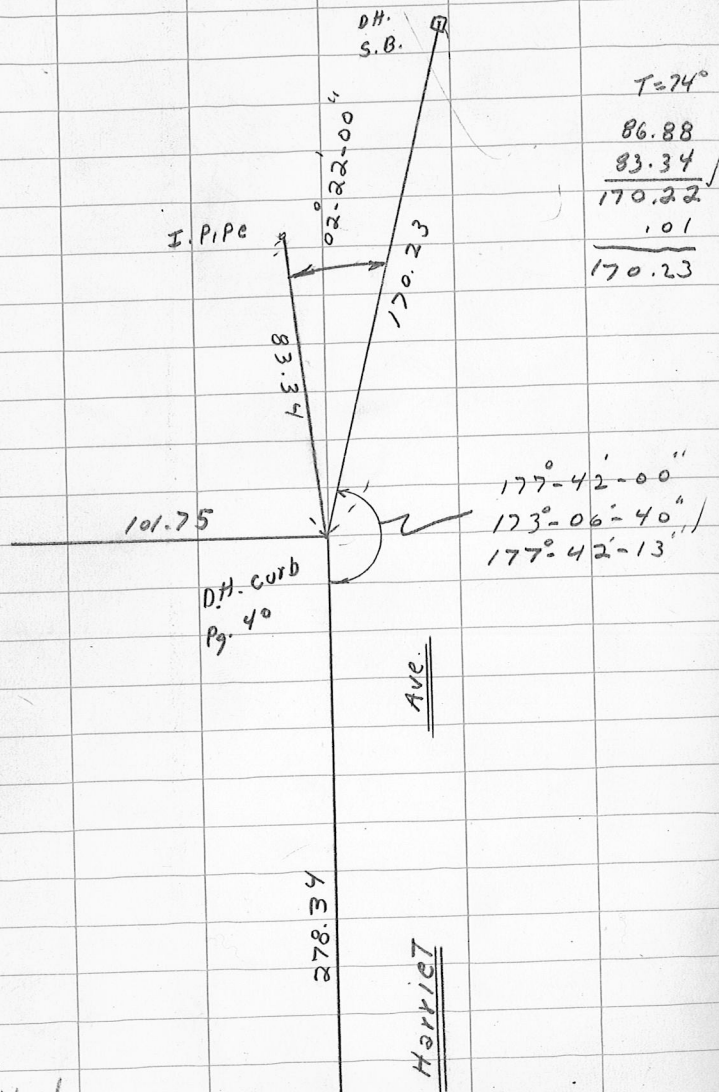
facility

47/401

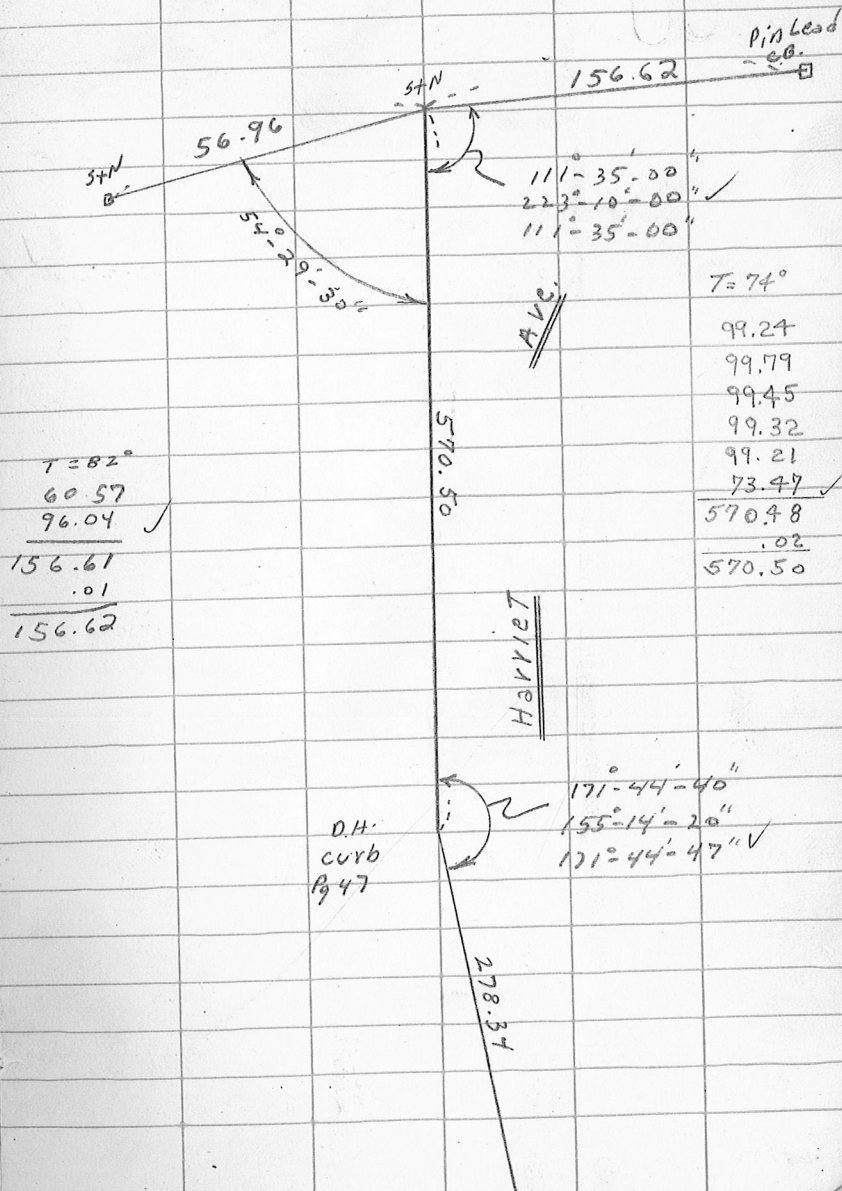
Norfolk County Recreation

facility survey Traverse

48



Plotted



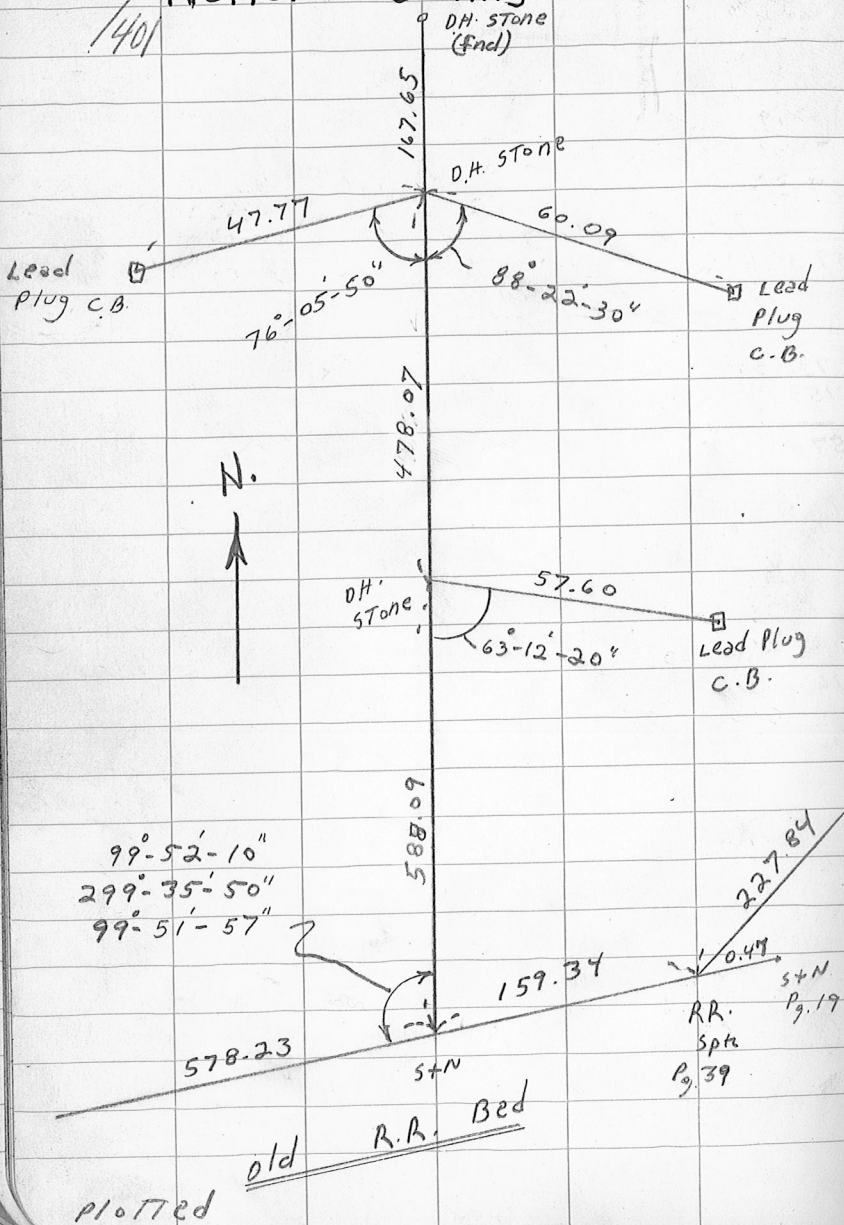
49/ Norfolk County Recreation

Facility Survey Traverse

Sept. 14, 1976

50

Frank
Watson
Kelly



$T=88^\circ$
67.19
92.13
159.32
.02
159.34 ✓

$T=90^\circ$
89.86
97.13
99.55
96.71
94.75
478.00
.07
478.07 ✓

$T=90^\circ$
98.47
99.36
96.81
98.41
98.89
96.06
588.00
.09
588.09 ✓

$T=90^\circ$
84.21
83.41
167.62
.03
167.65 ✓

51

/401

Norfolk

County

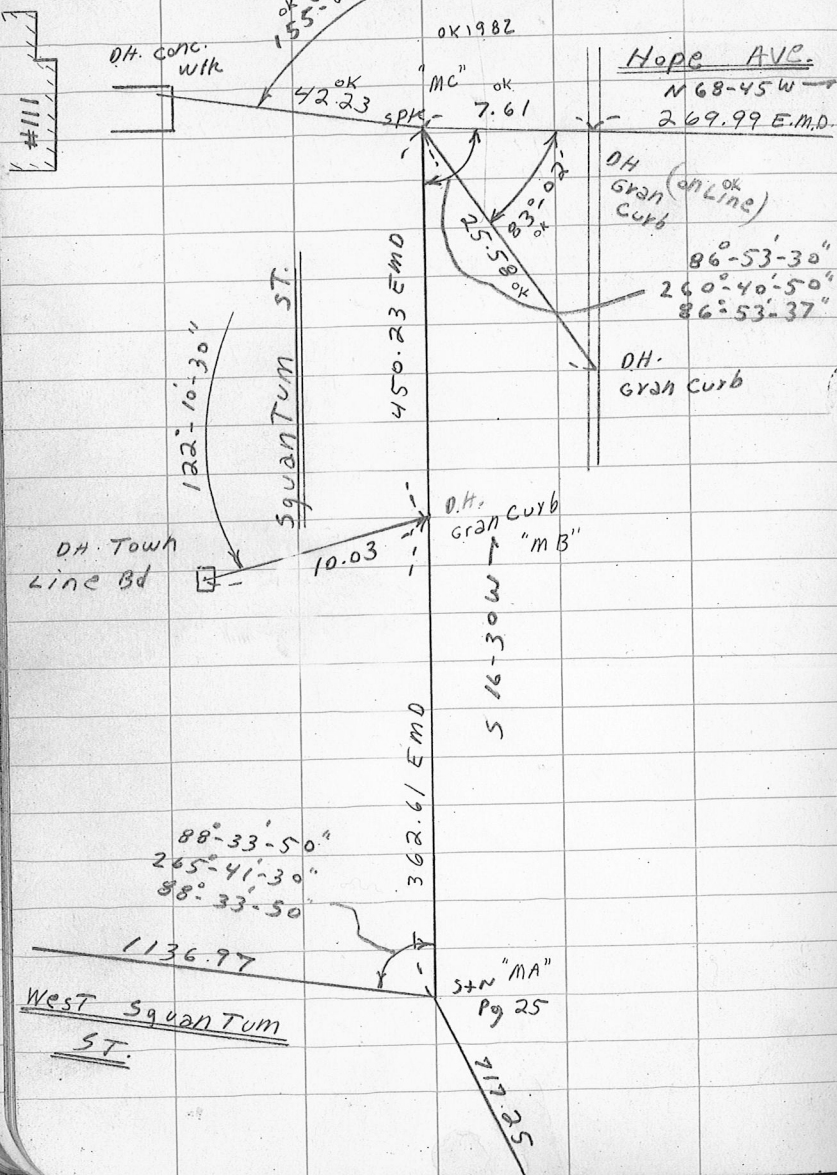
Recreational

facility

Survey Traverse

52

7/27/76



Ranger @ "MA" Reflector @ "MB"

Bar. 30.05

Temp. 71

P.P.M. 31

offset +98

N.D. 1.0 Filter

V.A. 3°-12'-30"

Feet

meters

363.16

110.700

.16

.702

.15

.703

.16

.700

363.16

110.701

363.158

110.701 x 3.2808333 = 363.192

363.175 x cos 03-12-30

362.61

Ranger @ "MA" Reflector @ "MC"

V.A. 02°-39'-00"

Same Data as Above

Feet

meters

813.69

248.024

.69

.022

.69

.023

.70

.023

813.70

248.023

813.694

248.023 x 3.2808333 = 813.722

813.708 x cos 02-39-00 = 812.84

53

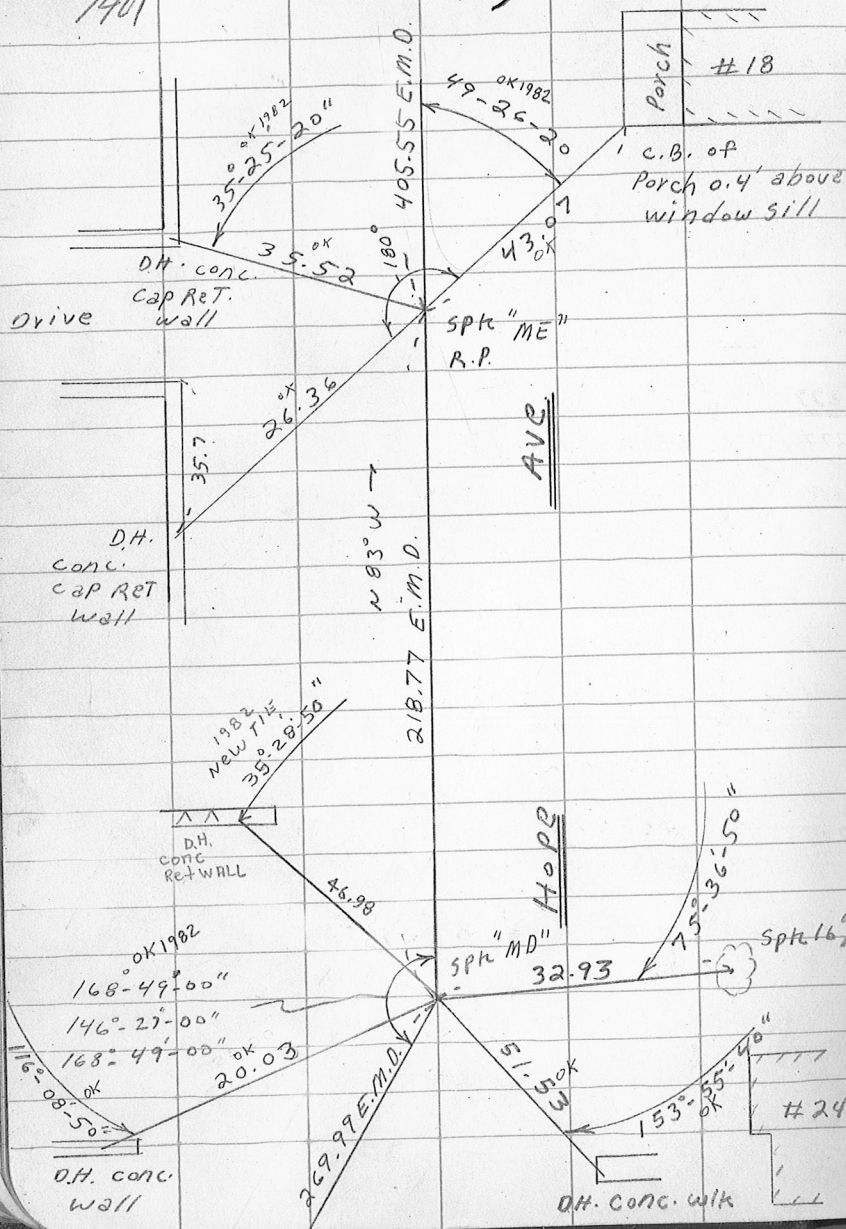
401

Norfolk County Recreation

facility survey Traverse

54

9/27/76



Ranger @ "MD" Reflector @ "MC"

Bar. 30.05

Temp. 71°

P.P.M. 31

offset 98

NO. 1.0 F/ITER

V.A. 1°-00'-15"

FEET METERS

277.64 84.629

.63 .628

.64 .627

.64 84.630

$$277.645 \times \cos 1-00-15 = 277.60$$

$$277.64 \quad 84.628 \times 3.2808333 = 277.652$$

277.638

Ranger @ "MD" Reflector @ "ME"

V.A. 3°-05'-30"

same data above

FEET METERS

219.08 66.783

.08 .779

.08 .782

.08 .779

.08 66.780

$$219.088 \times \cos 3-05-30 = 218.77$$

$$219.08 \quad 66.781 \times 3.2808333 = 219.096$$

219.08

Ranger @ "ME" Reflector @ "MF"

same data as above

V.A. = 0°

405.55

$$123.614 \times 3.2808333 = 405.556$$

FEET METERS

405.54 123.613

.54 .615

.54 .612

.54 .615

405.55 123.614

405.542 123.614

1

57

Norfolk County Recreation

1401

723.93 E.M.D.

to 2134 D.P.W 391/129
Geodetic DiskThistle Ave

424.44 E.M.D.

N 67° E

100°-38'-30"

301°-56'-00"

100°-38'-40"

OK 1982

Ave

594.83 E.M.D.

Granite

181.98 E.M.D.

Disk

213 M
391/129

198.00 E.M.D.

facility Survey Traverse

58

9/27/76

Ranger G 213M Reflector G "MJ"

VA. 1°-38'-00"

FEET METERS

same Data TOP Pg. 56

198.07 60.377

.07 .380

60.377 x 3.2808333 = 198.088

.07 .376

.08 .377

198.080 x cos 1°-38' 198.00

198.07 60.377

198.072 60.377

Ranger G 213M Reflector G 213L

Bar. 30.05 Temp. 74° P.P.M. +32 offset 98

NO 1.0 FILTER VA. 0°-15'-30" FEET METERS

1500.72 457.431

.72 .431

457.430 x 3.2808333 = 1500.752

.72 .427

.72 .431

1500.736 x cos 0°-15'-30" = 1500.72

1500.72 457.431

call 1500.74

1500.720 457.430

NB 391/128

Ranger G 213M Reflector G "ML"

same Data as Above FEET METERS

VA. = 0°-12'-30" 776.82 236.773

.81 .772

236.772 x 3.2808333 = 776.809

.81 .772

.81 .771

776.811 x cos 0°-12'-30" = 776.81

776.81 236.772

776.812 236.772

Ranger G 213M Reflector G "MK" FEET METERS

same Data as Above 181.97 55.467

.96 .470

.96 .471

55.470 x 3.2808333 = 181.988

.96 .471

.97 55.470

181.976 x cos 0°-03' = 181.98

181.964 55.470

59

/401

Norfolk County Recreation

T68"

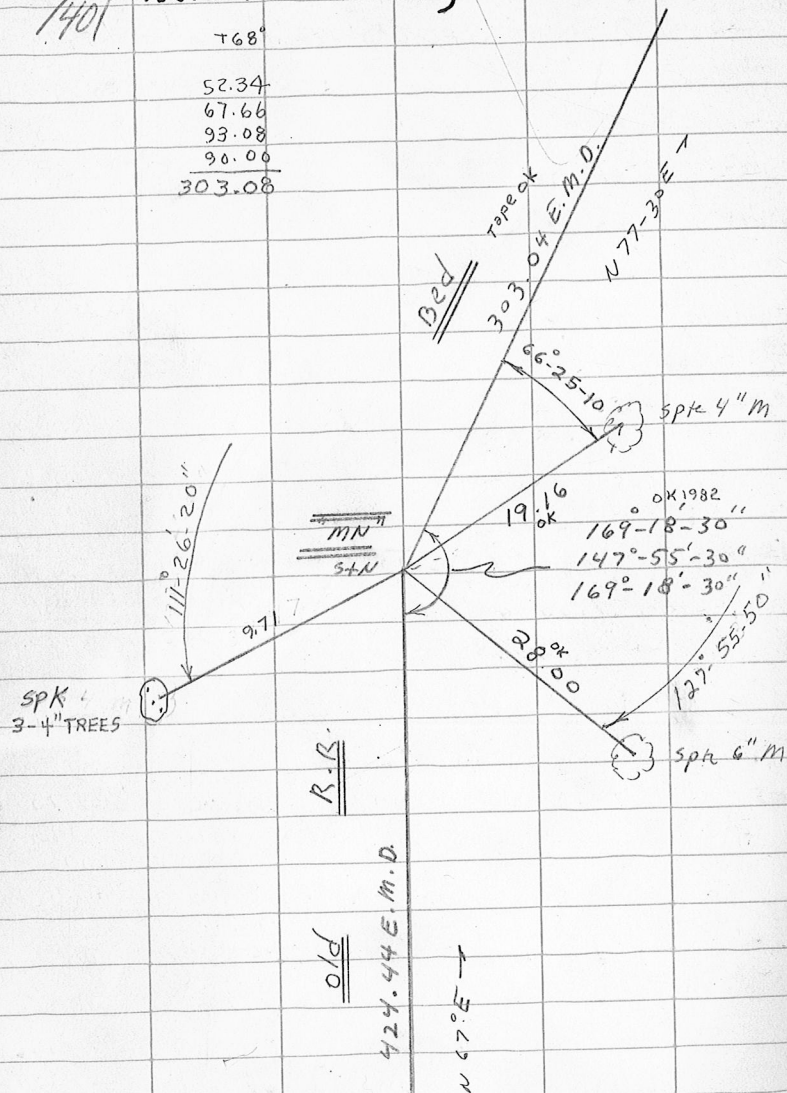
52.34

67.66

93.08

90.00

303.08



facility Survey Traverse

60

9/27/76

Ranger G "MN" Reflector G "ML"

Bar 30.00 Temp. 72° P.P.M. +32 offset +98

N.D. 1.0 Filter V.A. 0°-06'-45"

Feet Meters

424.43 129.373

.43 .369

.43 .369

.43 .372

424.43 .369

129.372

424.430

129.371 x 3.2808333 = 424.444

$$424.437 \times \cos 0^\circ-06'-45'' = 424.44$$

Ranger G "MN" Reflector G "Mo"

same data as above

V.A. 0°-21'-45"

Feet Meters

303.04 92.372

.04 .374

.04 .372

.05 .371

303.04 92.374

303.042

$$92.373 \times 3.2808333 = 303.059$$

$$303.051 \times \cos 0^\circ-21'-45'' = 303.04$$

61

Norfolk County Recreation facility survey Traverse

62

Inst.

Tape

Wthr & Temp.

Date

Crew

T=72°

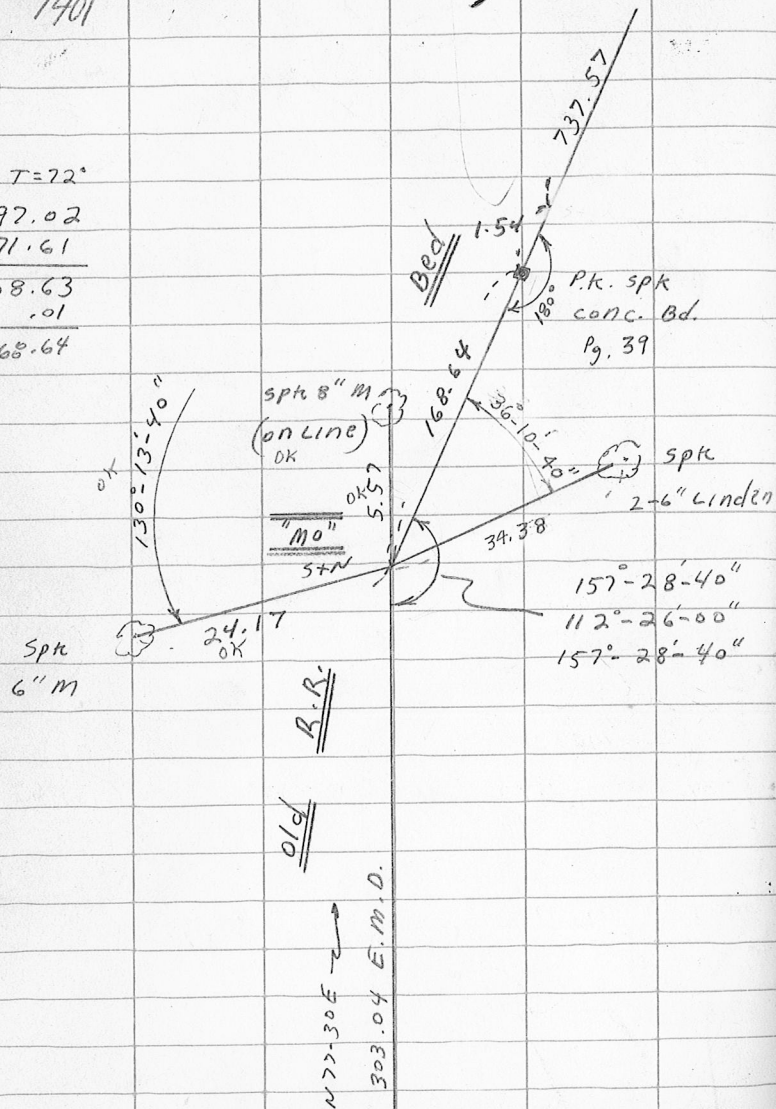
97.02

71.61

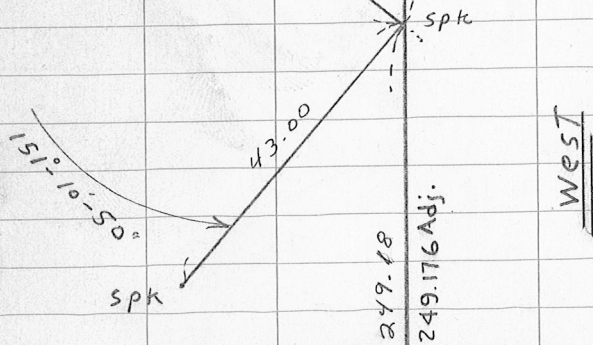
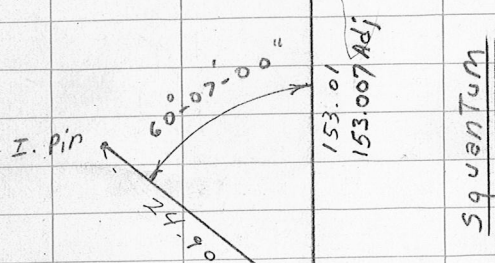
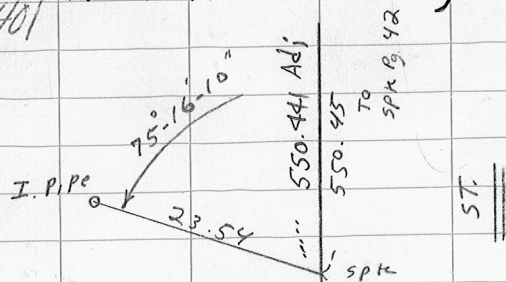
168.63

.01

168.64



63/401 Norfolk County Recreation facility survey Traverse



$T=63^\circ$
 85.43
 92.88
 70.91
249.22
 .01
249.21
 call 249.18

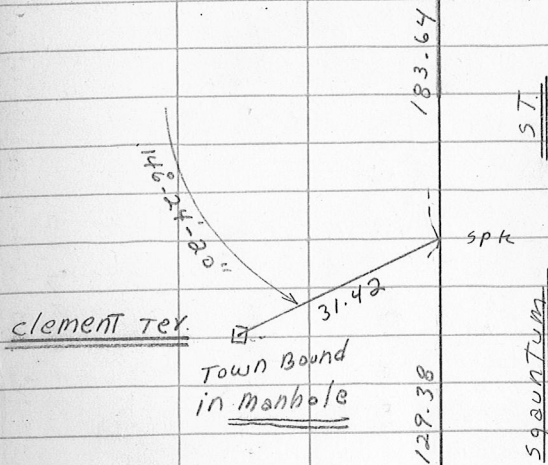
$T=63^\circ$
 76.47
 76.56
153.03
 call 153.01

$T=63^\circ$
 49.98
 78.76
 85.57
 87.86
 85.48
 82.20
 81.29
550.54
 .02
550.52
 call 550.45

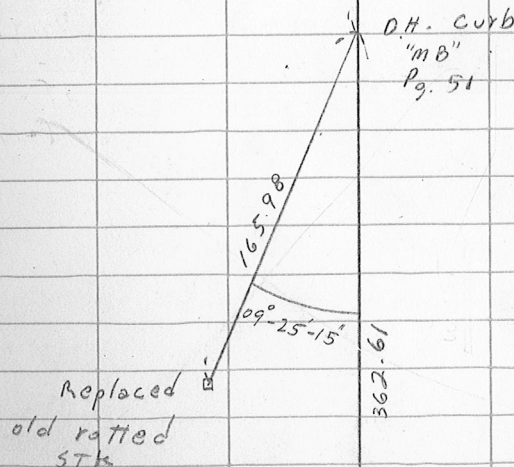
EVANS ST.

64

9/29/76
 Frinte
 Watson
 Bagers
 $T=65^\circ$
 89.37
 94.26
183.63
 call 183.64



$T=65^\circ$
 76.95
 52.42
129.37
 call 129.38

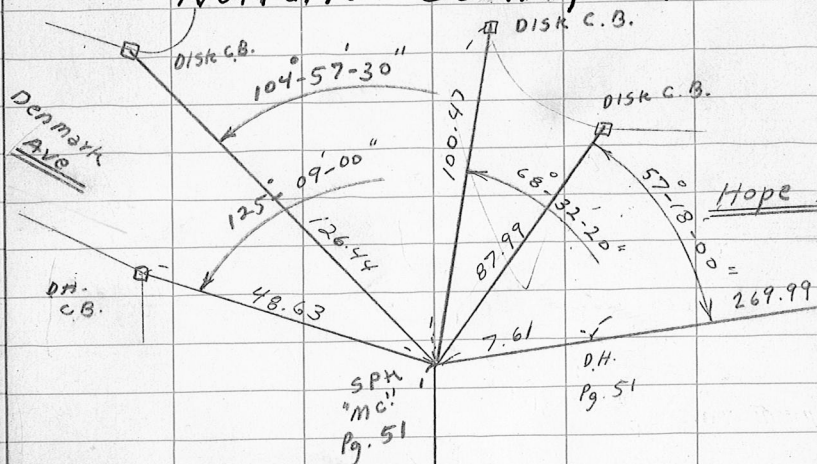


$T=59^\circ$
 87.99
 78.00
165.99
 .01
165.98

Pg. 51
 Plotted

65

Norfolk County Recreation facility survey Traverse



59.59
66.85
126.44

79.11

D.H.
Town Bound

58°-18'-10"

137.21

183.64

ST.

S+N

Squaw Tum

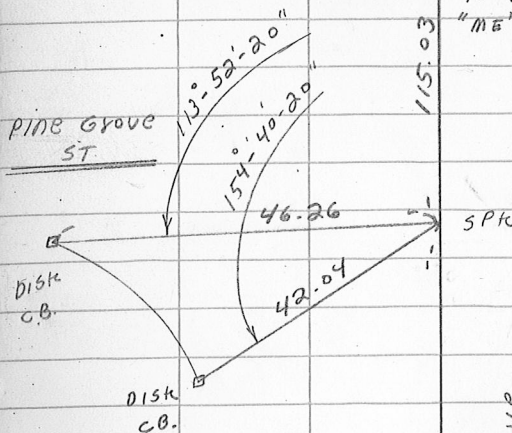
T=65°
74.42
62.78
137.20
call 137.21

401/66

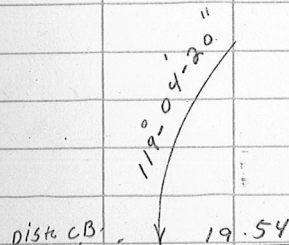
9/29/76
Erink
Watson
Beyer

T=65°
61.55
53.48
115.03

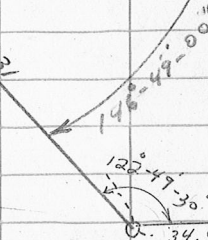
218.77
115.03
103.74



Ave.



Hope



'Home made' C. Bounds
coffee can
filled with
conc.

Plotted

67/1401 Norfolk County Recreation facility Survey Traverse

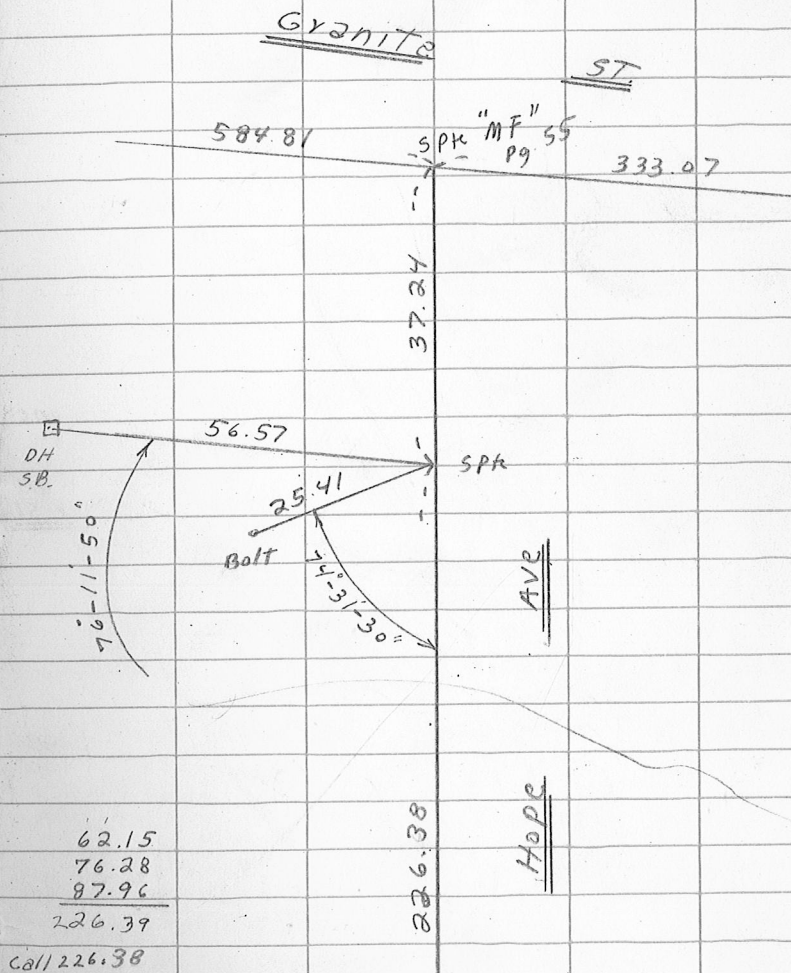
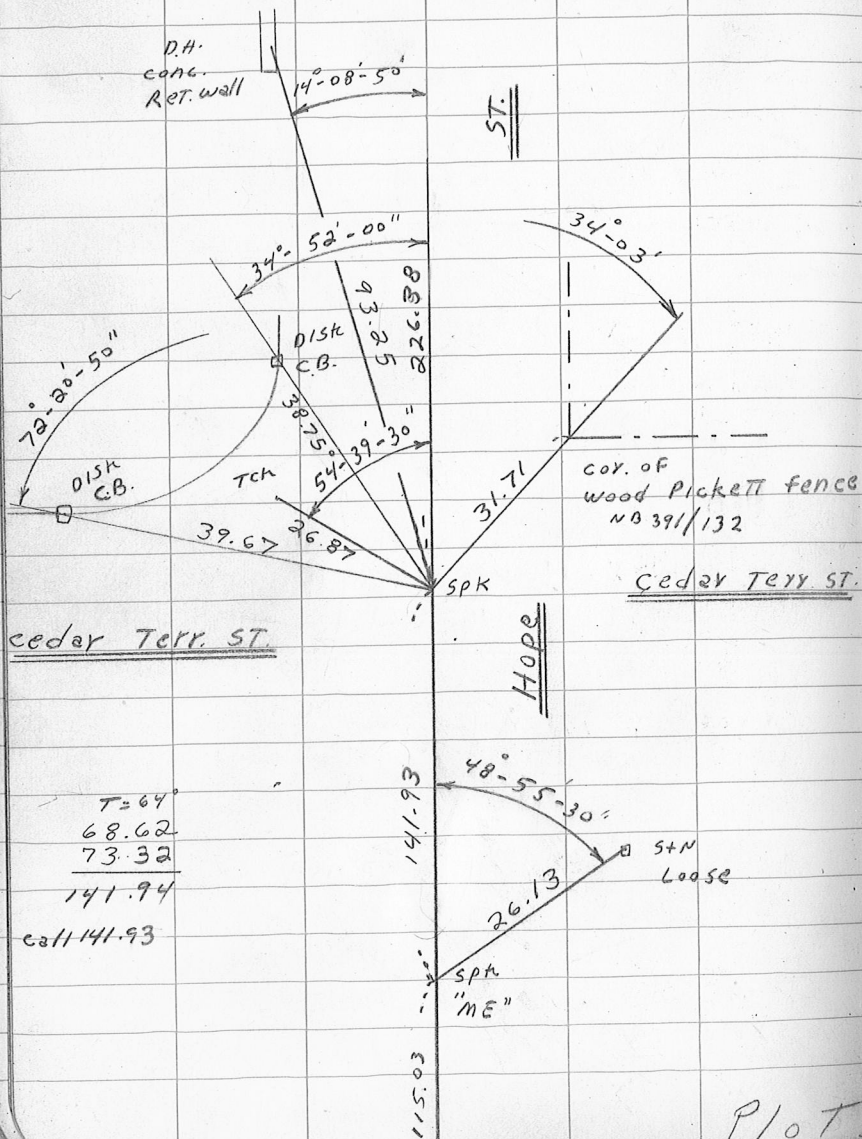
68

9/30/76

Frink

Prisc.

Beyer



69/401

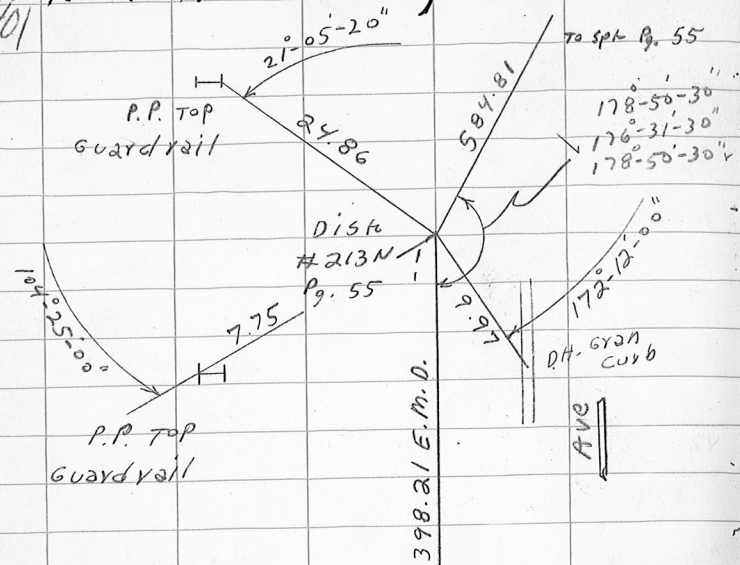
Norfolk County Recreation

facility

Survey Traverse

70

9/30/76



T=66°
74.44
96.66
171.10 ✓

Iron
rod in
conc. Bd
Top Broken

98°-25'-10"
295°-15'-10"
98°-25'-03"

121°-30'-20"
4°-31'-10"
121°-30'-23"

Expressway

OH S.B.
49°-29'-30"
171.10 Meas.
171.23 Pl.
Lead Pin
S.B.

128°-17'-10"
24°-51'-10"
128°-17'-03"

CTV
Back
C.B.

West
SQUANTUM
ST.

OH SB

Ranger @ "G1" Reflector @ 213N

Temp 60° Bar 30.2 P.P.M. 23
offset +98 NO. 1.0 FILTER V.A. 1°-26'-30"

FEET	METERS
420.64	128.214
.64	.214
.65	.215
.64	.213
.64	.214

$420.646 \times \cos 1^{\circ}-26'-30'' = 420.51$ ✓
 $420.642 \times 3.2808333 = 420.649$

Ranger @ "G1" Reflector @ CTR Back C.B.

same DATA as above VA = 0°

FEET	METERS
113.43	34.582
.42	.582
.42	.581
.43	.581
.43	.580

$113.441 \times \cos 0^{\circ} = 113.44$ ✓
 $113.426 \times 3.2808333 = 113.455$

Ranger @ "G1" Reflector @ OH SB

same DATA as above VA = 0°

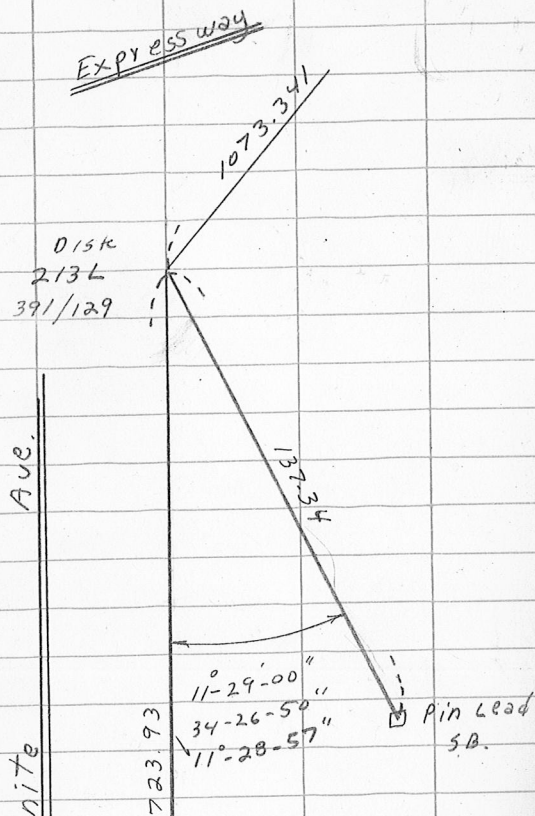
FEET	METERS
140.54	42.848
.54	.848
.54	.848
.55	.848
.55	.847

$140.560 \times \cos 0^{\circ} = 140.56$ ✓
 $140.544 \times 3.2808333 = 140.575$

73/401 Norfolk County Recreation facility Survey Traverse

14
10/1/76

FRINK
PRISCO
BEYER

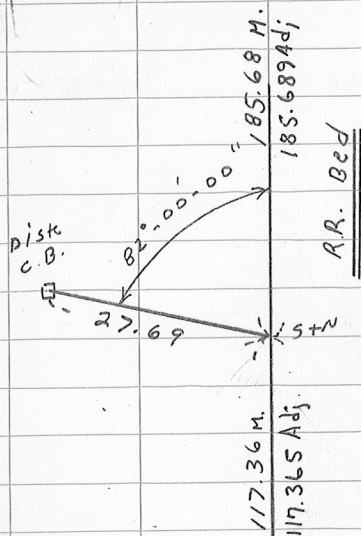


See NB 419/106
(Loc. SB)

Plotted

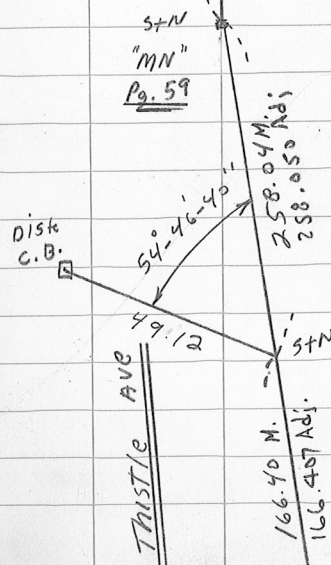
T=67°
69.45
67.89
137.34

Whitman
Rd



T=64°
55.99
61.37
117.36

303.04
117.36
185.68



T=66°
87.14
79.26
166.40

424.44
166.40
258.04

To SPR "ML"
Pg. 57

75/401

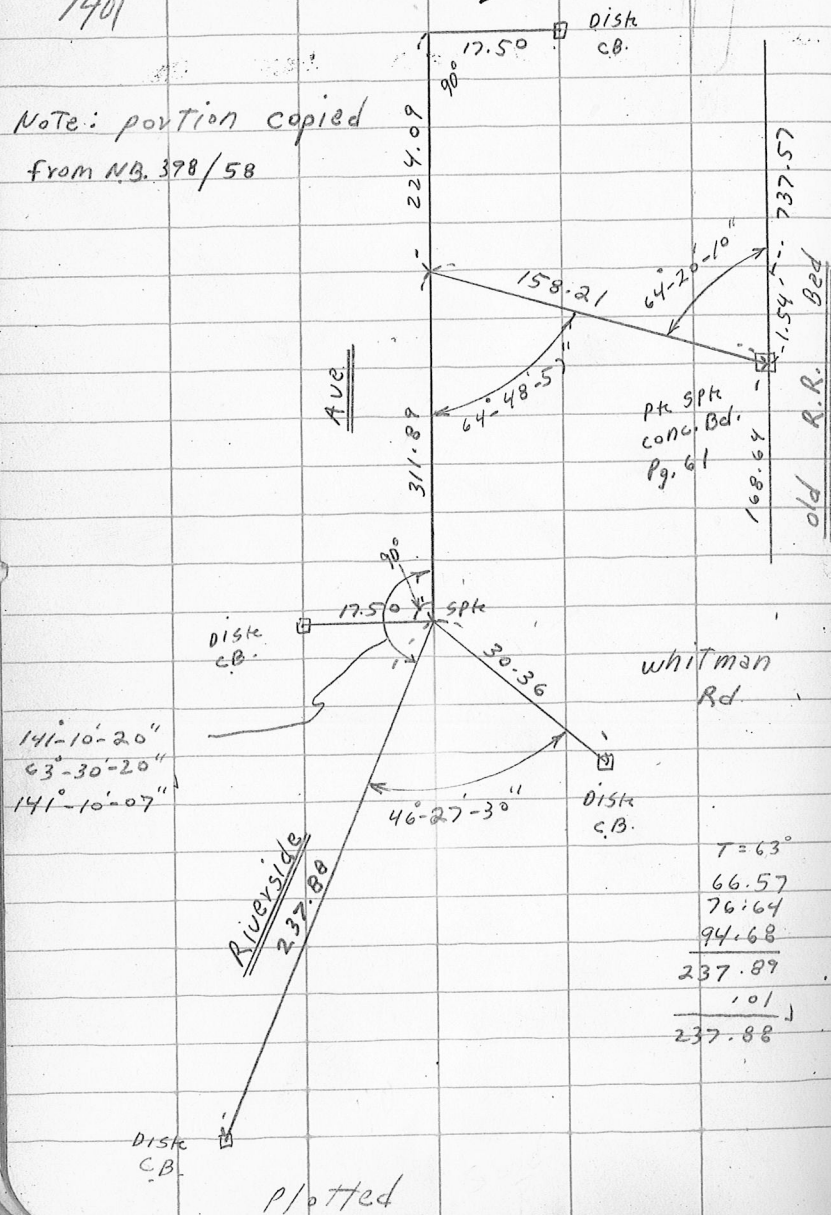
Norfolk County Recreation

facility

survey Traverse

76

Note: portion copied
from N.B. 398/58



Inst.

Tape

Wthr & Temp.

Date

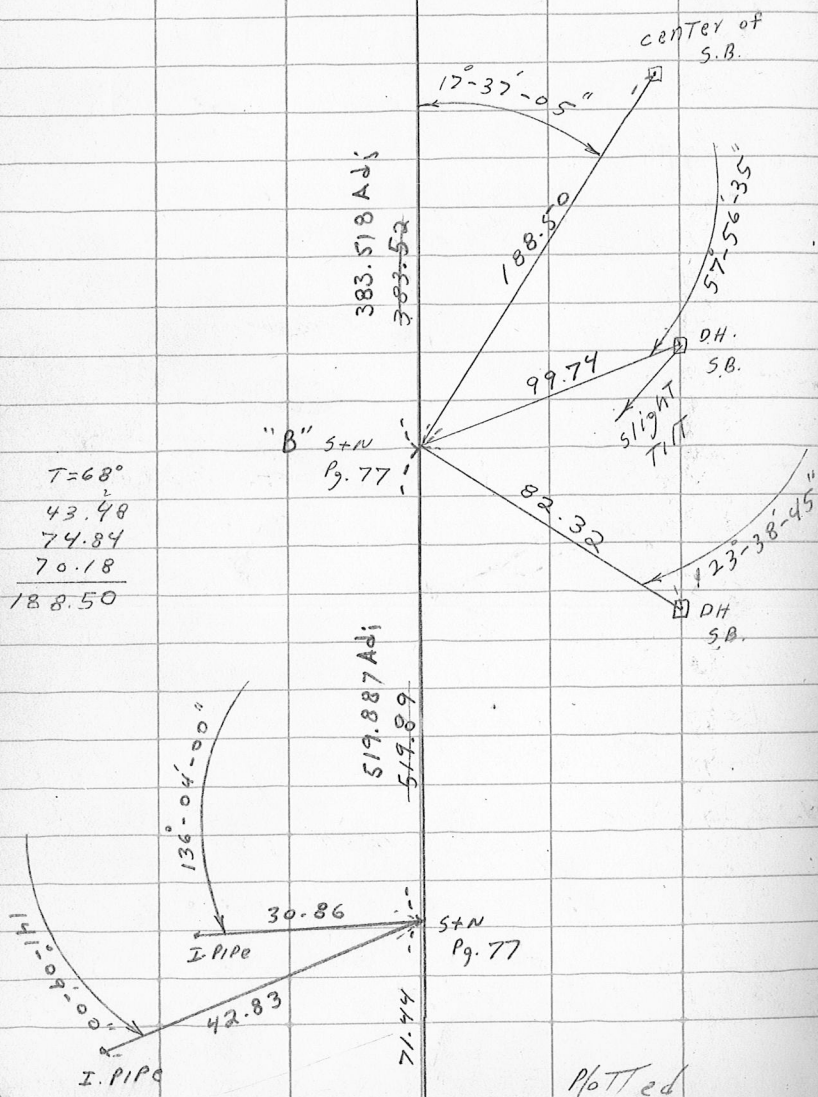
Crew

$T = 63^\circ$
 66.57
 76.64
 94.68
 237.89
 101
 237.88

plotted

79
/401

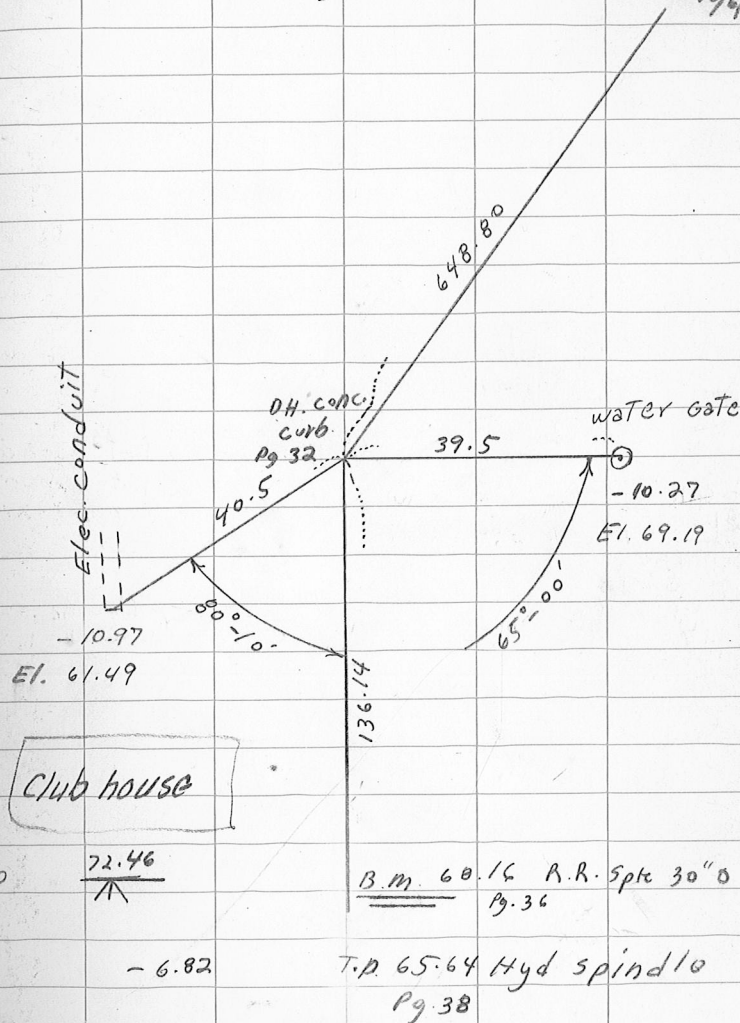
Norfolk County Recreation Survey Traverse



Plotted

80

Location of watergate and Elec. conduit



81/401

Norfolk County Recreation facility survey Traverse

82

10/14/76

Ranger @ "V1" Reflector @ "V2"

Temp 62°

Bar. 29.75

P.P.M. 23

offset 98

N.D. 1.0 FI/TCI

VA = 93-36-30

FEET

METERS

167.36

51.015

 $167.368 \times \cos 93-36-30 = 167.04$

.37

.017

.37

.016

.36

.017

167.36

51.015

 $167.362 \times 3.2808333 = 167.375$ 398.45
72.03
326.4262.02
21.94
42.61
12.08
28.35
167.00

167.04 E.M.O.

143° 50' 20"

spk
P₉.44

73.03

new
cut spk
4" M
8" M

143° 50' 20"

28.70
29.04OK 1982 ..
164° 23' 20"
133° 16' 20"
164° 23' 27"3.74
3.68d.h. Conc.
curb

119° 43' 40"

5+N
"V1"44.63
44.58322.9
2.10xT° 5+N
P₉.44x-cut face
chain link
fence13° 20' 50"
OK 198281.13
83.31
87.59
74.46
326.49
03
326.46

Norfolk County Recreation

facility

Survey Traverse

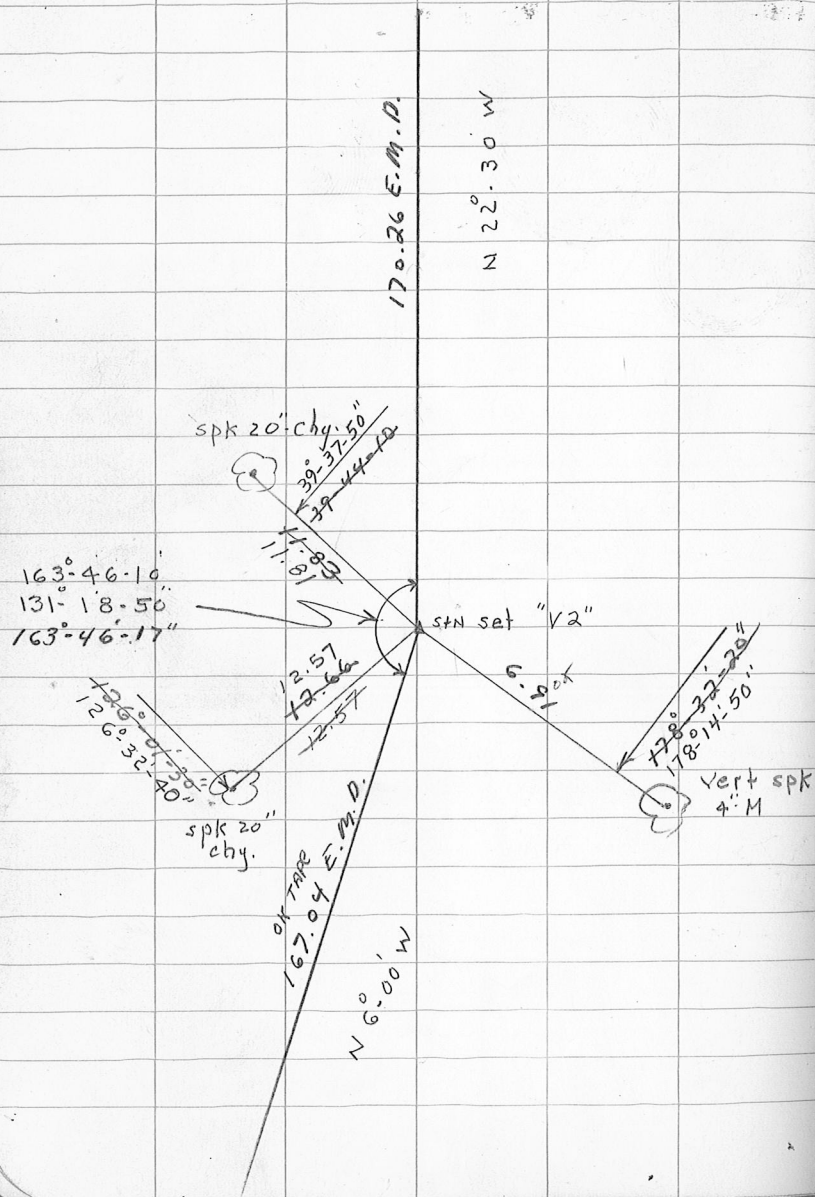
Inst.

Tape

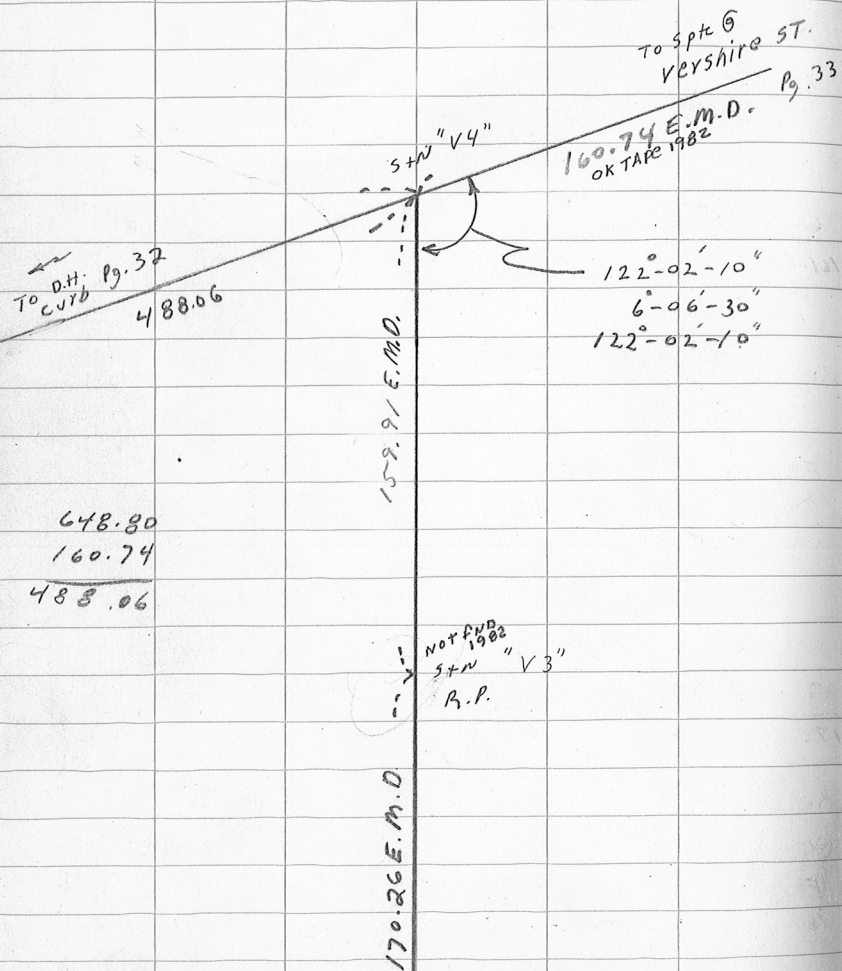
Wthr & Temp.

Date

Crew



10/14/76



648.80

160.74

488.06

Ranger @ "V3" Reflector @ V4

Temp 55°

Bar. 29.8

PPM. +24

offset +98

ND1.0 filter

I.A. 7°-03'-00"

Feet

Meters

161.13

49.113

 $161.129 \times \cos 7.03 = 159.91$

.13

.113

.13

.113

.13

49.113

161.13

161.130

 $49.112 \times 3.2808333 = 161.128$

Ranger @ "V3" Reflector @ V2

Same Data as Above

I.A. 03°-46'-00"

Feet

Meters

170.63

52.008

 $170.625 \times \cos 3.46 = 170.26$

.62

.008

.62

.008

.62

.007

170.62

52.008

170.622

52.008 $\times 3.2808333$

Ranger @ spk vershire Reflector @ V4

Same data Above

I.A. 0°-16'-30"

Feet

Meters

160.73

48.997

 $160.739 \times \cos 0.275 = 160.74$

.73

.994

.73

.996

.73

.995

160.74

160.732

48.995

48.995 $\times 3.2808333 = 160.746$

87
1401

Norfolk County Recreation

facility Fence Location

88

10/12/76
Exint
Watson
Beyers

To D.H.
curb
@ west
Squantum St
Pg. 51

173.29

35'
299-15

15'
292-25

chain link
fence

TEK
↑ 0°
Ave.

43'
273-40

24'
236-00

96.70

Hope

SPK
"MD"
Pg. 53

218.77

269.99
96.70
173.29

Granite

35'
307-15

29'
272-50

chain link

46'
194-25

369.81

fence

86.5
08-25

↑ 0°
↑ here

STN
Pg. 77

71.44

Ave.

143
27-40

102
24-30

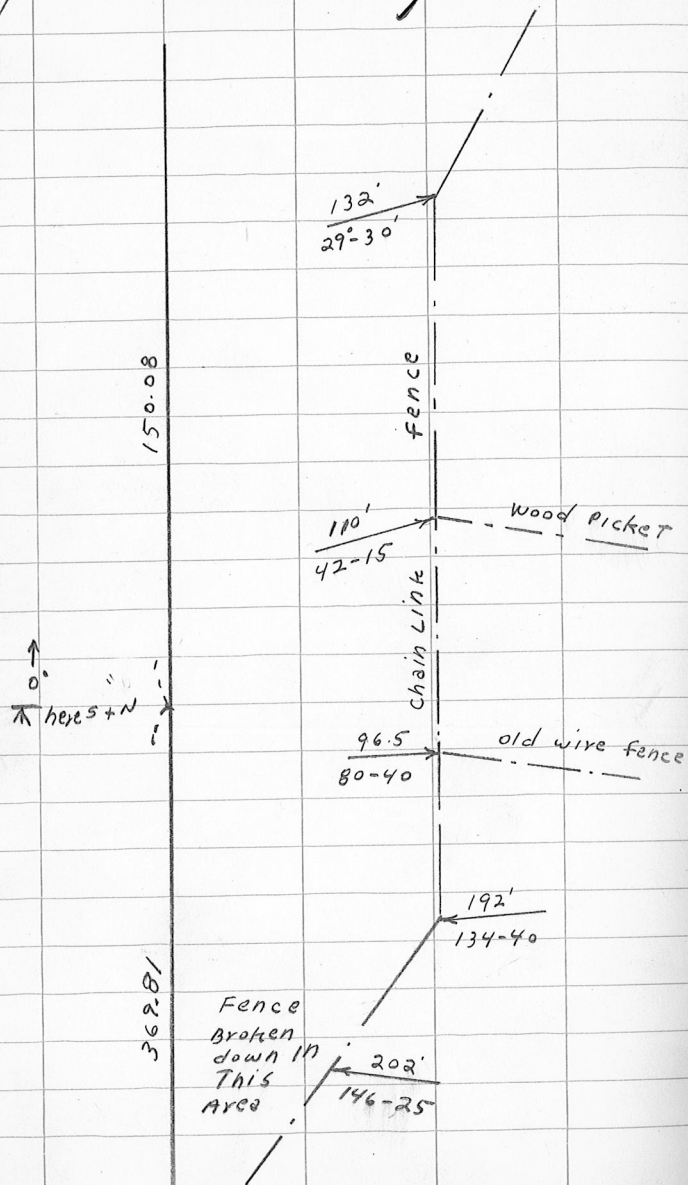
519.79
150.08
369.71

89
401

Norfolk County Recreation

facility

Fence Location

90
10/12/76

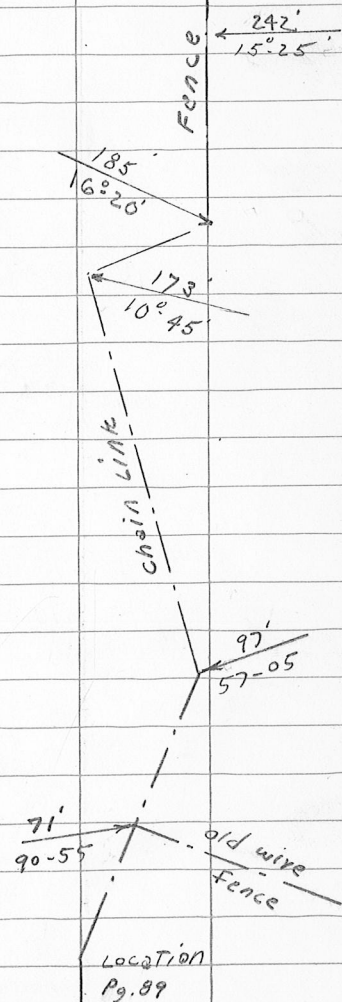
T=54°
76.07
74.02
150.09
.01
150.08

0°
↑
here

S + N
Pg. 77

325.41

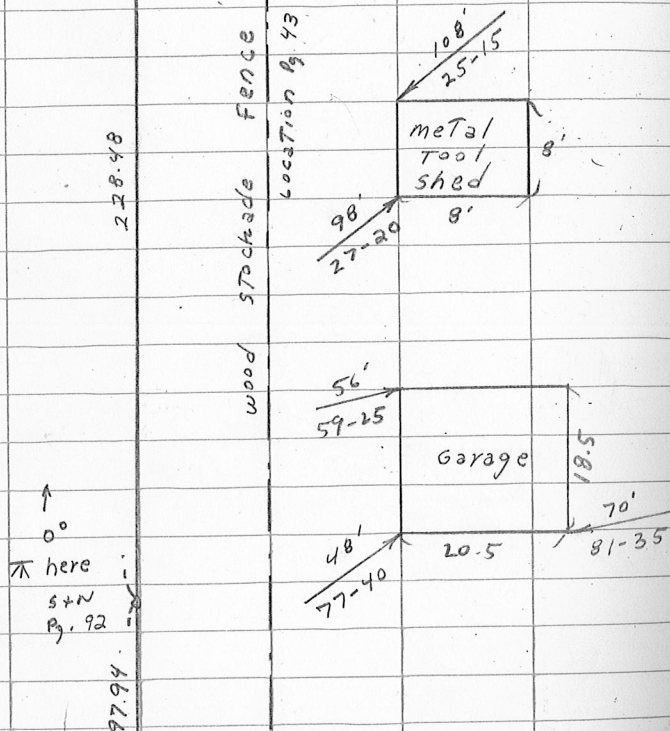
150.08



93

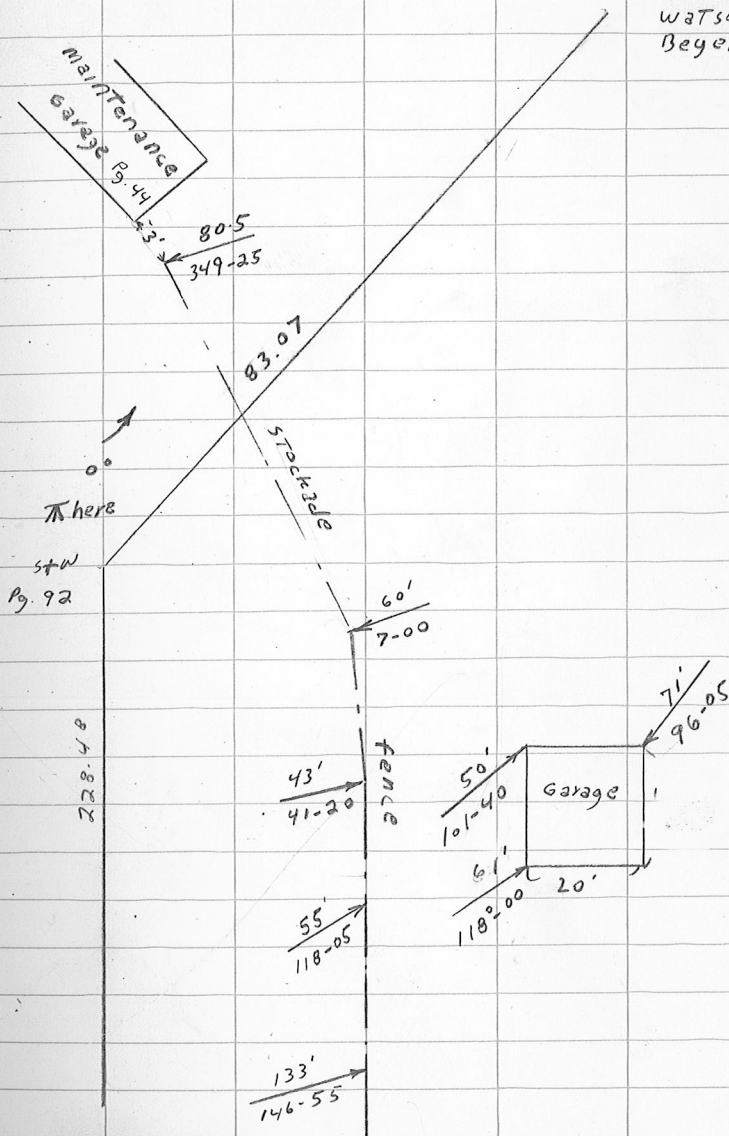
401

Norfolk County Recreation facility



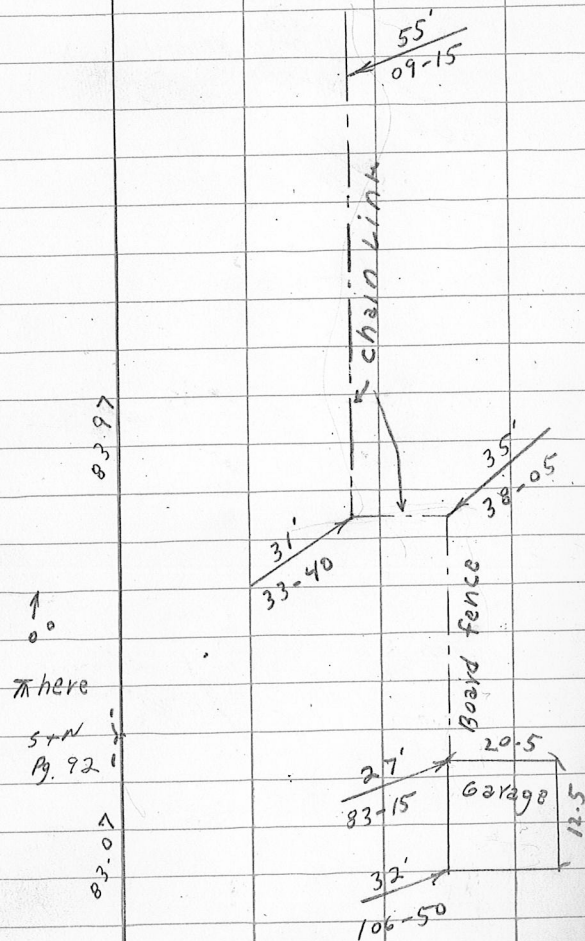
94

10/18/76

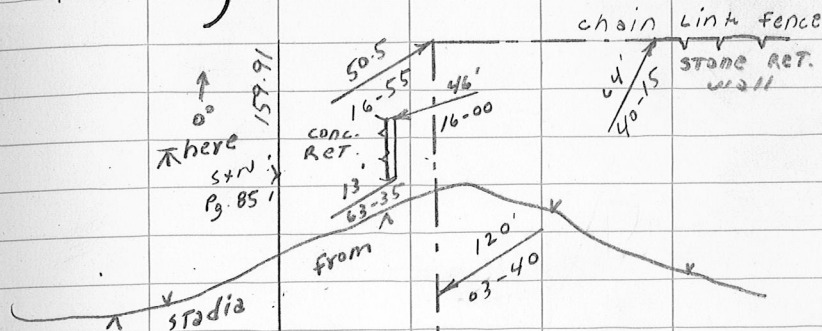
Frink
Watson
Beyer

95/
401

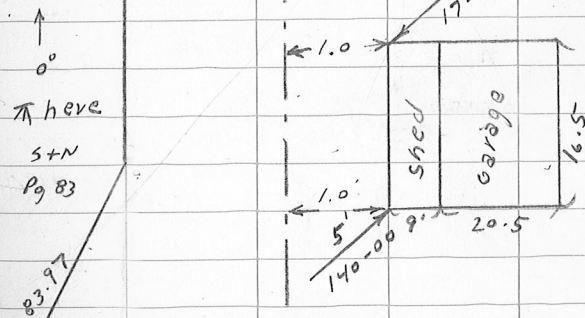
Norfolk County Recreation facility



96



Note: See N.B. 410
Pg. 44 for 1979
Work in this
area



Norfolk County Recreation facility

Note: See N.B. 4/10
Pg. 36 to 67 for
1979 Work in this
area

ST.

Vershire

199.58

20.40

76.49

$$\begin{array}{r} 219.98 \\ 20.40 \\ \hline 99.58 \end{array}$$

CONF. WA 11

Post + Rail fence

Fence + stone
Ret. wall
falling apart
here

cont.
Pg. 98

98

10/18/76

Vershire

57.

cont. Pg. 99

Stallie 3/6

pg-85

Here

↓

Norfolk County Recreation facility

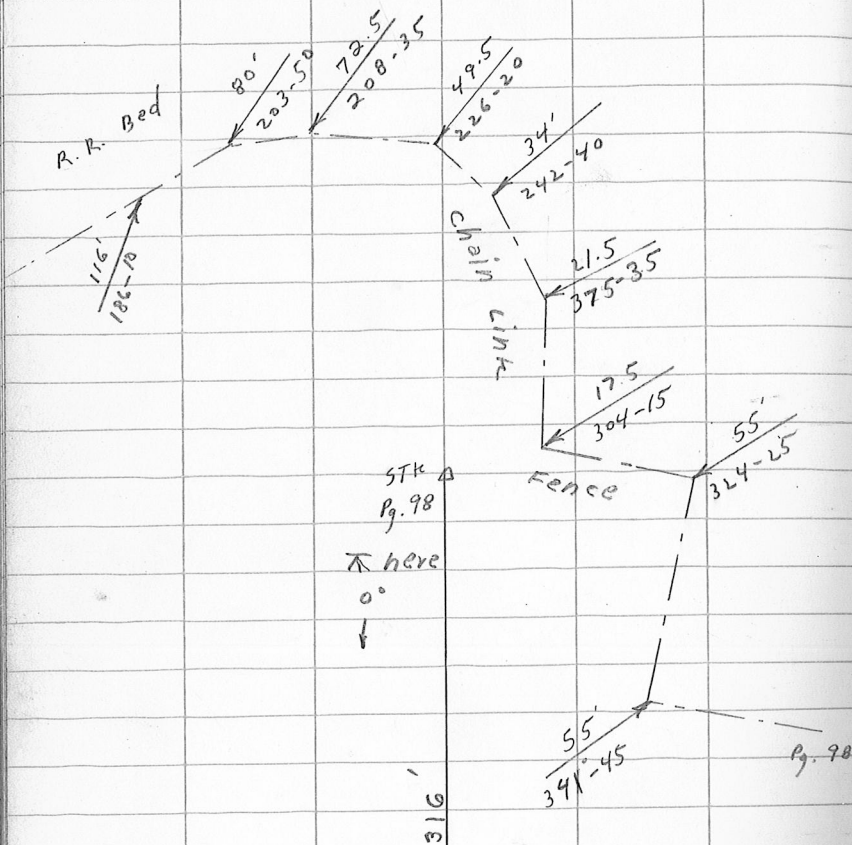
Inst.

Tape

Wthr & Temp.

Date

Crew



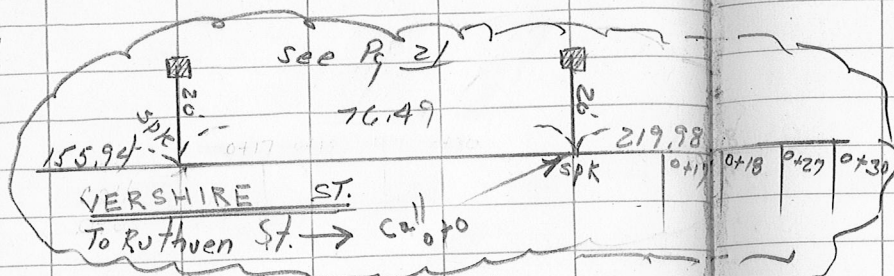
101

401

+ 10.79

x-sections at Stone Retaining

25.91

Sketch
for Sta.

0+0 Rt.

℄ T.W.	@ Curb	on curb	@ fence	Bk fence	Bot Slope				
0	11	11	2.0	20	29	40	50	75	100
5.1	5.9	5.19	5.6	7.0	9.7	9.9	10.2	10.1	8.7
20.8	20.0	20.72	20.3	18.9	16.2	16.0	15.7	15.8	17.2

Bottom Stone Ret. Wall

0+17

℄ T.W.	@ Curb	on curb	@ fence	Bk fence @ Ret Wall	Bot Slope @ Ret Wall	@ Bot Ret Wall					
0	11	11	2.0	20	28	35	40	50	60	75	100
3.3	3.9	3.25	3.4	3.8	7.7	8.5	8.5	7.6	5.3	5.6	2.6
22.6	22.0	22.66	22.5	22.1	18.2	17.4	17.4	18.7	20.6	20.3	23.3

On stone Ret. Wall

0+18

℄ T.W.	@ Curb	on curb	Bk S.W @ Ret Wall	on Wood
0	11	11	20.5	20.5
3.2	3.9	3.18	3.0	2.3
22.7	22.0	22.73	22.9	23.6

Vershire St.

Oct 19, 1976 102

Frank
Watson
BeyerB.M. on 15.12 Horizontal Spk in
2-30" 0 39' 16"

see N.B. # 410

Pg. 36 For 1979

Work in this area

0+18 0+27 0+30

on Stone Ret. Wall

30	40	50	60	75	84
3.1	3.2	2.8	3.0	2.5	2.1
22.8	22.7	23.1	22.9	23.4	23.8
on Ret. Wall					
92	100				
0.7	0.2				
25.2	25.7				

X. Sections Stone Retaining Wall Vershire St.

- 1.78

+ 9.51

33.64 ✓

T.P.

24.13 ✓

Gran Curb

	q T.W.	Gran. curb	on curb	S.K. S.W.						
0+27 R.L.	0	11	11	20	30	46	60	75	85	90
	9.9	9.4	8.82	9.8	9.2	9.2	10.3	10.3	9.8	7.8
	23.7	24.2	24.82	23.8	24.4	24.4	23.3	23.3	23.8	25.8

Sill Hse #17 46' R.L. 46' 4.98
 0+30 28.66

- 7.67

T.P. 25.97 ✓

X. CUT on Rim of
S.M.H. (25.97) 391/16

100
7.3
26.3

105

Norfolk County Recreation

401

8+92 67' x $\frac{1}{2}$ swale8+25 62.5' x $\frac{1}{2}$ swale7+50 57' x $\frac{1}{2}$ swale7+15 S+N
391/956+75 55' x $\frac{1}{2}$ swalefacility staking Swale @ 12th fairway

106

11/9/76

Frynk
Watson
Beyer12- 91.5' x $\frac{1}{2}$ swale11+38 69.5' x $\frac{1}{2}$ swale11- 57' x $\frac{1}{2}$ swale10+75 53.5' x $\frac{1}{2}$ swale10+10 61' x $\frac{1}{2}$ swale9+30 67.5' x $\frac{1}{2}$ swale

107

Norfolk County Recreation

+ 6.54

18.46
K

B.M. #5 11.92 spk 14" oak 391/17

-3.05 T.P.

15.41 TOP STONE

+ 6.21

21.62
K

STA	offset	Rod	Elev	Elev. Bot. Swale	CUT
6+39	77' RT.	10.4	6 Grnd. 11.2 TOP STK		
6+75	33' RT	8.01	13.61 TOP STK	11.7	1.9
6+75	55' RT	8.92	12.70 Grnd.	11.7	1.0
6+75	55' RT	9.9	11.7 TOP STK	11.7	
7+50	35' RT	6.85	14.77 TOP STK	12.1	2.7
7+50	57' RT	7.87	13.75 Grnd.	12.1	1.7
7+50	57' RT.	9.2	12.4 TOP STK	12.1	
8+25	40.5 RT.	6.39	15.23 TOP STK	12.5	2.7
8+25	62.5 RT	7.43	14.19 Grnd.	12.5	1.7
8+25	62.5 RT	8.5	13.1 TOP STK	12.5	
8+92	45 RT	5.39	16.23 TOP STK	12.8	3.4
" "	67 RT	7.11	14.51 Grnd.	12.8	1.7
" "	67 RT	8.1	13.5 TOP STK	12.8	
9+30	45.5 RT	5.08	16.54 TOP STK	13.0	3.5
9+30	67.5 RT	6.87	14.75 Grnd.	13.0	1.8
9+30	67.5 RT	7.8	13.8	13.0	

-6.70

T.P. 14.92

TOP STONE

+ 11.27

26.19
K

facility

swale @ 12th fair way

401/108

Print
Watson
Beyer

STA	offset	Rod	Elev	Elev. Bot. Swale	CUT
10+10	39' RT	6.50	TOP STK 19.69 TOP STK	13.9	5.8
10+10	61' RT	9.61	16.58 Grnd.	13.9	2.7
10+10	61' RT	10.8	15.4 TOP STK	13.9	
10+75	31.5 RT	4.82	21.37 TOP STK	16.6	4.8
	53.5 RT	6.81	19.38 Grnd.	16.6	2.8
	53.5 RT	8.1	18.1 TOP STK	16.6	
11+0	35 RT	4.59	21.60 TOP STK	17.1	4.5
	57 RT	6.33	19.86 Grnd.	17.1	2.8
	57 RT	7.6	18.6 TOP STK	17.1	
11+38	47.5 RT	4.66	21.53 TOP STK	17.3	4.2
	69.5 RT	5.90	20.29 Grnd.	17.3	3.3
	69.5 RT	7.4	18.8 TOP STK	17.3	
12-	69.5 RT.	4.66	21.53 TOP STK	17.6	4.0
12-	91.5 RT	5.62	20.57 Grnd.	17.6	3.0
12-	91.5 RT.	7.1	19.1	17.6	

-10.21

B.M. #4 15.98

VERT RR. SPK
4-20" TPOSS

391/17

109

NORFOLK COUNTY WOLLASTON

RECREATION

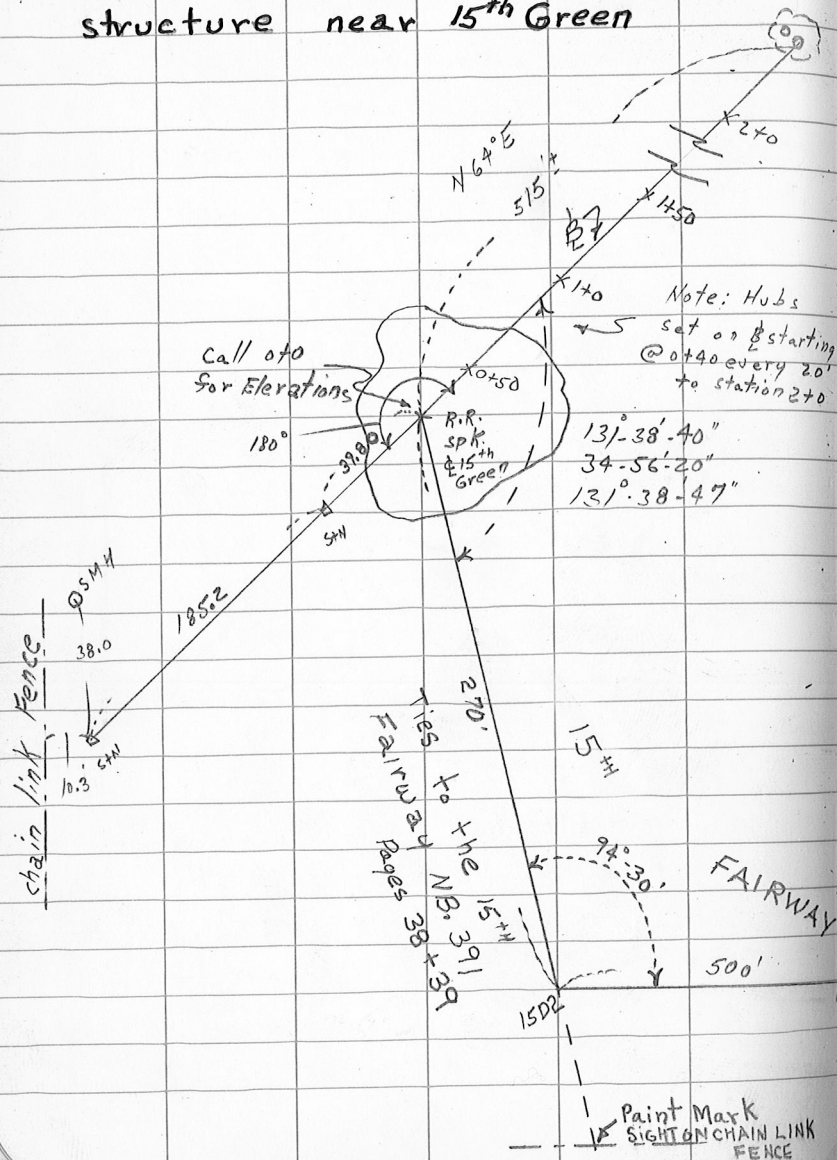
FACILITY

401/110

Set up to be used in taking Elevations for proposed water control structure near 15th Green

Tack with
Red Flag
2-12" Oaks

4/19/77
Simpson
Merithew
Prisco
T: 68°, Windy
Sunny



Note: Hubs
set on starting
@ 0+40 every 20'
to station 2+0

111

NORFOLK COUNTY WOLLASTON

Locations & Elevations in the
Vicinity of the 15th Green

+2.09

11.40

B.M. #15 N.B. #39/
Elev. = 9.3/ Pgs. 28+25Irrigation
Head
8" Dia.
Rod = 10.98
Elev. 0.42
32.32'
El. 4.80
95/356.00

FACILITY

112

April 29, 1977
Simpson
Prisco
MerithewTop Spillway
Rod = 7.98
El. 3.42HALF BARREL
CONTROL
STRUCTURE (SEE
R. 121)

66.15	67.09
57.98	56.66
67.22	70.98
191.35	194.73

6" Cor. drain
Coming from
5th GreenEdge
of
GreenR.R.
Spr. 15th
Green
see
Pg. 109 & 110E of
swale
low spot
between Sand
TrapsRod = 7.2
El. 4.2Rod = 6.1
El. 5.30Rod = 5.8
El. 5.6Rod = 5.9
El. 5.5Rod = 5.4
El. 5.0

RECREATION

Brook

47
53-10
6" Dia.
Irrigation
Head6" Cor.
drain
Coming
from 15th
Green

POND

POND
ELEVATION = 8.82
Rod = 8.58

WAS

4/20/77 11:00 AM

Cross-sections at proposed water Control Structure

(Note: Additional test pit data
see N.B. 410 Pg. 30-31)11.40 From top
Pg. 111

0+0 $\frac{15}{0}$ ^{4H} Green on Green Edge Green
4.9
6.5
see PAGE 120

0+20 on Green $\frac{0}{4.7}$ ⁰ Green $\frac{0}{2.0}$ Edge Green
6.7

0+40 $\frac{100}{8.9}$ $\frac{80}{8.5}$ $\frac{60}{8.5}$ $\frac{40}{7.1}$ $\frac{20}{5.1}$ $\frac{10}{4.4}$ $\frac{0}{4.5}$ $\frac{20}{6.2}$ $\frac{40}{7.5}$ $\frac{56}{8.6}$ Edge Pond
2.5 2.9 2.9 4.3 6.3 7.0 6.9 5.2 3.9 2.8

0+60 $\frac{100}{8.8}$ $\frac{80}{8.6}$ $\frac{60}{8.6}$ $\frac{40}{8.4}$ $\frac{20}{7.4}$ $\frac{0}{6.4}$ $\frac{20}{7.3}$ $\frac{40}{7.7}$ $\frac{45}{8.6}$ Edge Pond
2.6 2.8 2.8 3.0 4.0 5.0 4.1 3.7 2.8

0+80 Top Edge Brook $\frac{65}{7.9}$ Bot. Edge Brook $\frac{65}{7.5}$ $\frac{48}{9.6}$ Bot. Edge Brook $\frac{33}{7.4}$ Edge Brook $\frac{33}{8.4}$ $\frac{20}{8.0}$ $\frac{0}{7.7}$ $\frac{20}{7.5}$ $\frac{40}{7.8}$ $\frac{47.5}{8.5}$ Edge Pond
7.8 7.8 3.5 1.9 1.8 2.0 3.0 3.4 3.7 3.9 3.6 2.9
3.6 3.6

Top Edge Brook Ask. Rt. Lt. $\frac{100}{8.5}$ $\frac{80}{8.4}$ $\frac{60}{8.1}$ $\frac{40}{8.2}$ $\frac{20}{8.0}$ $\frac{0}{7.8}$ $\frac{20}{7.7}$ $\frac{40}{7.8}$ $\frac{60}{7.4}$ $\frac{80}{7.6}$ $\frac{100}{7.1}$
0+88 $\frac{2.9}{3.0}$ $\frac{3.0}{3.3}$ $\frac{3.2}{3.4}$ $\frac{3.4}{3.6}$ $\frac{3.5}{3.4}$ $\frac{3.6}{4.0}$ $\frac{3.5}{4.0}$ $\frac{3.4}{4.0}$ $\frac{3.6}{4.0}$ $\frac{3.8}{4.3}$
Bot. Brook on top of silt $\frac{20}{10.2}$ $\frac{40}{10.4}$ $\frac{60}{10.2}$ $\frac{80}{9.7}$ $\frac{100}{9.9}$
0+93 $\frac{100}{10.2}$ $\frac{80}{9.8}$ $\frac{60}{9.7}$ $\frac{40}{9.6}$ $\frac{20}{9.4}$ $\frac{0}{10.3}$ $\frac{20}{10.2}$ $\frac{40}{10.4}$ $\frac{60}{10.2}$ $\frac{80}{9.7}$ $\frac{100}{9.9}$

Bot. Brook Rt. Lt. Ask. on Hard from See Pg. 115 & 116
0+93 1.2 1.6 1.7 1.8 2.0 1.1 1.1 1.0 1.2 1.7 1.5

✓ W.P.S.

115

NORFOLK COUNTY WOLLASTON

11.40V

Top Edge
Brook Rt. & Lk. Ask.
0+98

	<u>100</u>	<u>80</u>	<u>60</u>	<u>40</u>	<u>20</u>	<u>0</u>
	8.1	7.9	8.0	8.0	7.8	7.4
	3.3	3.5	3.4	3.4	3.6	4.0
140	<u>100</u>	<u>80</u>	<u>60</u>	<u>40</u>	<u>20</u>	<u>0</u>
	7.8	7.8	7.9	7.9	7.6	7.6
	3.6	3.6	3.5	3.5	3.8	3.8

	<u>100</u>	<u>80</u>	<u>60</u>	<u>40</u>	<u>20</u>	<u>0</u>
	7.3	7.4	7.6	7.4	7.2	6.3
	4.1	4.0	3.8	4.0	4.2	5.1

	<u>100</u>	<u>80</u>	<u>60</u>	<u>40</u>	<u>20</u>	<u>0</u>
	6.6	6.3	6.8	6.7	6.1	5.4
	4.8	5.1	4.6	4.7	5.3	6.0

	<u>100</u>	<u>80</u>	<u>60</u>	<u>40</u>	<u>20</u>	<u>0</u>
	4.9	5.0	5.2	5.3	5.0	4.5
	6.5	6.4	6.2	6.1	6.4	6.9

	<u>100</u>	<u>80</u>	<u>60</u>	<u>40</u>	<u>20</u>	<u>0</u>
	3.6	3.8	3.7	3.7	3.8	3.5
	7.8	7.6	7.7	7.7	7.6	7.9

	<u>100</u>	<u>80</u>	<u>60</u>	<u>40</u>	<u>20</u>	<u>0</u>
	1.5	1.8	2.0	1.9	1.8	1.8
	9.9	9.6	9.4	9.5	9.6	9.6

L BROOK
Rt. & Lk. on Hard
0+93 Bottom

	<u>100</u>	<u>80</u>	<u>60</u>	<u>40</u>	<u>20</u>	<u>0</u>
	11.9	12.1	12.1	12.1	12.0	12.5
	-0.5	-0.7	-0.7	-0.7	-0.6	-1.1

RECREATION

FACILITY

116

April 20, 1977

	<u>20</u>	<u>40</u>	<u>60</u>	<u>80</u>	<u>100</u>					
	8.6	7.4	7.3	7.1	6.9					
	3.8	4.0	4.1	4.3	4.5					
	Edge Top Brook	Bot. Edge	L Brook	Bot. Edge Brook	Top Edge					
	7	7	27	46	46	60	80	100		
	7.7	9.4	10.7	9.7	7.7	7.2	7.0	7.0		
	3.7	2.0	0.7	1.7	3.7	4.2	4.4	4.4		

	<u>20</u>	<u>40</u>	<u>60</u>	<u>80</u>	<u>100</u>
	6.6	7.1	7.4		
	4.8	4.3	4.0		
	<u>20</u>	<u>40</u>	<u>60</u>	<u>80</u>	<u>100</u>
	5.2	5.4	6.7	6.7	6.9
	6.2	6.0	4.7	4.7	4.5
	<u>20</u>	<u>40</u>	<u>60</u>	<u>80</u>	<u>100</u>
	4.6	4.6	5.4	6.3	6.6
	6.8	6.8	6.0	5.1	4.8

	<u>20</u>	<u>40</u>	<u>60</u>	<u>80</u>	<u>100</u>
	3.4	3.8	4.5	5.3	5.8
	8.0	7.6	6.9	6.1	5.6

	<u>20</u>	<u>40</u>	<u>60</u>	<u>80</u>	<u>100</u>
	2.1	2.4	3.0	3.6	4.2
	9.3	9.0	8.4	7.8	7.2

	<u>20</u>	<u>40</u>	<u>60</u>	<u>80</u>	<u>100</u>
	12.7	12.9	12.8	12.9	12.6
	-1.3	-1.5	-1.4	-1.5	-1.2

✓W.A.S.

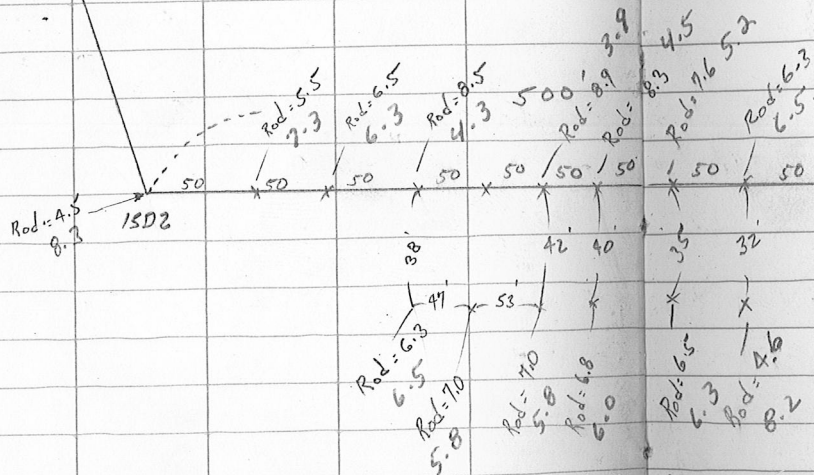
117
401

Norfolk County Wollaston

11.40 From top
B. 115 + 116

ADDITIONAL ELEVATIONS AT VARIOUS
+1.02

All shots 90° to R



Recreation

Facility

118

-2.09

B.M. #15 ELEV. = 9.3

chis. SQ Headwall
N.B. 39/ Pgs. 24+25

LOW SPOTS AT 15TH FAIRWAY

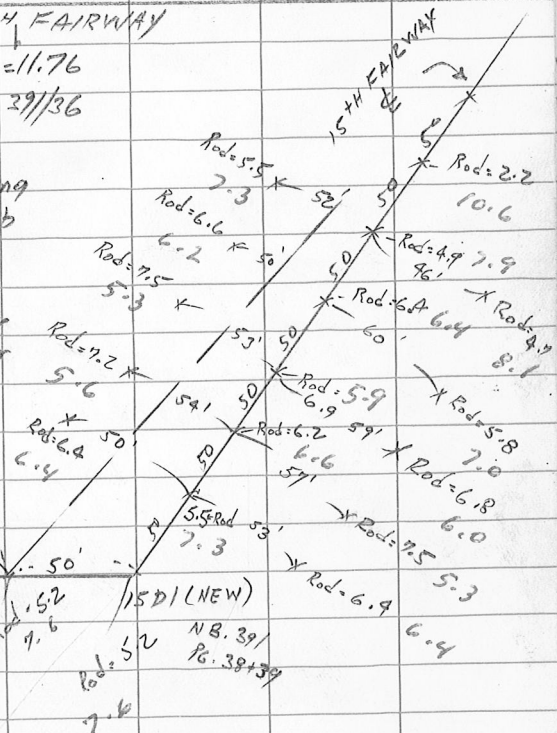
B.M. #29 ELEV. = 11.76

29/1/36

Note: Rod Reading
Pump House slab
= 7.23
5.55

Note: Rod Reading
to treps former
slab = 6.84

5.94



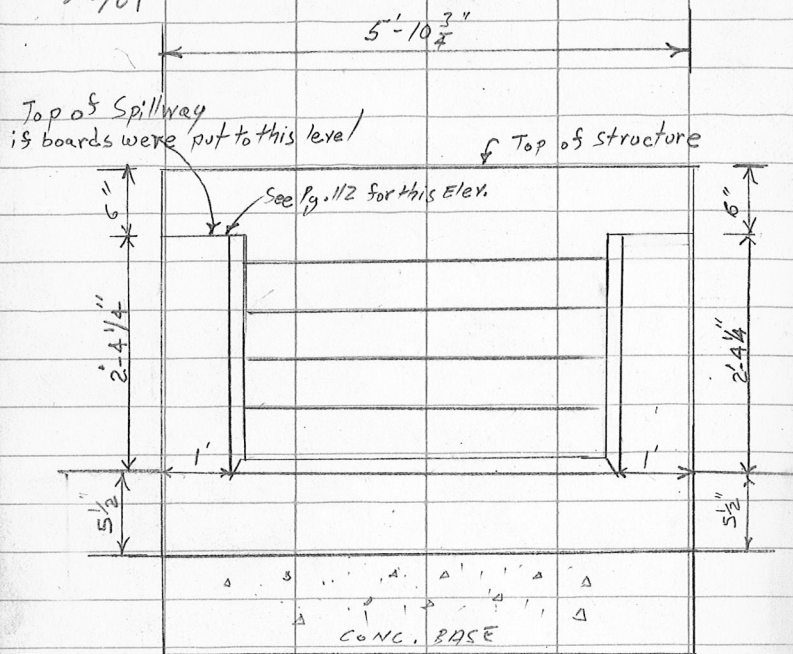
-1.02

11.76

B.M. above

✓ WAS

121 As built measurements of

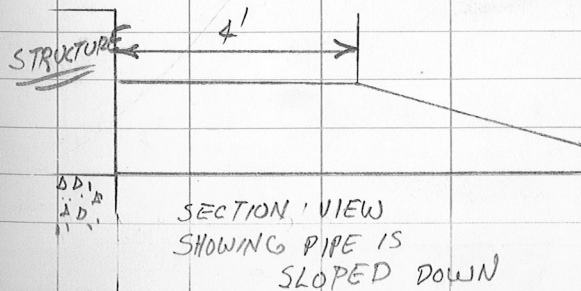
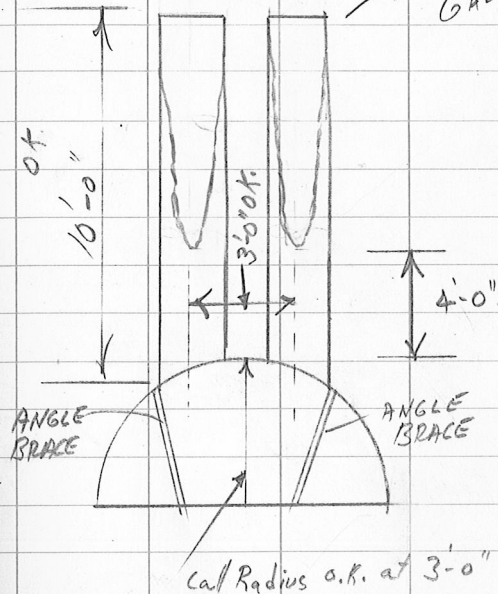


See sheet #42
of the contract Drawings
for PLAN MEASUREMENTS OF
THIS STRUCTURE

Half-Barrel Control Structure 122

Note: Because of severe mud
it is difficult to see
the inverts of the
Pipe

2 4" Dia. GALV. PIPE



29.73

11.73
8.32
3.41

334.8
335
180
75

9.31
37

(13.01)

9.31
2.09
11.40

11 38.4
34-56-20
120
116 740
24

13

10 13
11.40
7.98
3.42

11.76
1.02
78

(27.69)

8.57
3.3
11.87

10 13
11.40
7.98
3.42

9.0
3.9
12.9

8.6
3.3
11.9

12

12.5

8.6
3.5
12.1

48-05-00
96-10-10
48-05-05

5.11 46.37

9.31
2.42
73

82-21-20
164-43-20
82-21-40

3d.

38-47-30
77-35-00
38-47-30

112-29-10
224-58-00
112-29-00

9.0
3.6
12.6

2.09

LAST page
F.B. 401