

BK. 134 Dr. 16

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

STADIA Survey

Mounds View Township

From Ditch #2 To

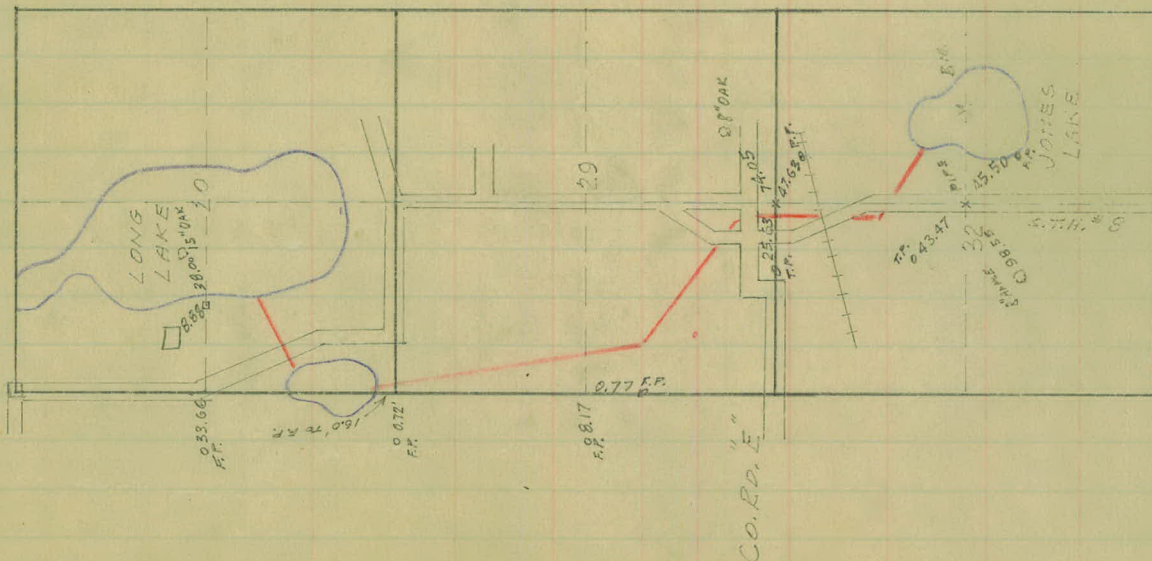
Road Acc't. No.

Date Filed 2-14-46 File

Page.....Transit.....Obs. A. LINDAHL Line.....COUNTY DITCH #2
 Date.....Rec. A. MOESCHTER MOUNDS VIEW TOWNSHIP

Notes
 Checked
 11-6-44

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle			
B.M. SPIKE T.P. WEST SIDE LONG L. RD. AT FREDEEN RD. = 877.95								



Date..... Rec.....

[illegible]

WATER ELEV. LONG LAKE = 864.69

Page 1 Transit. Obs. A. LINDA Line. Date 10-4-44 Rec. A.M. COUNTY DITCH #2

0°-00' = NORTH.

90°-00' = EAST

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle			
NEEDLE = 8°-45'								

AT W 1/4 MONT SEC 20

TO N.W COR SEC 20

Δ #1

H.I. 5.12

ATA #1 BOLT SPIKE & FREDEEN + LONG LAKE RD

TO W 1/4 MONT SEC 20

TO Δ #1A

H.I. 4.83 GE - .3

ATA #1A

TO Δ #1

VAZI & WHITE TANK EAST

WATER SURFACE LONG LAKE

NEEDLE
READING 8°-45'
113°-41' 890
882.39 }
882.45 } 882.42
293°-41' 890
35°-20' 683
874.71 }
874.77 } 874.74 -

+ 1 +6.83 4.30 +2.53 877.30 -

10.05 864.69

Page 2 Transit.....Obs.....Line.....
 Date 10-5-44 Rec.....

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
H.I. 4.92 G.E.3		874.80	✓						
AT. A #1A									869.88
✓ AZI & WHITE-TANN EAST	78°-01'								
W.S.	71°-00'	113	-						864.67
"	315°-30'	290	-						
"	24°-30'	72	-						
G.E.	303-45'	326	-					5.1	69.7
G.E.	91°-00'	90	-					7.2	67.6
"	25°-20'	61	-					7.5	67.3
"	313°-40'	284						8.2	66.6
S.E COR HOUSE	21°-00'	43						7.2	67.6
S.W. " "	331°-40'	34						7.0	67.8
✓ DITCH AT LAKE	332°-00'	106	✓					10.8	64.0
EDGE DITCH	324°-20'	82						8.2	66.6
" "	322°-50'	114						9.3	65.5

Page. 3 Transit Obs. Line
 Date. 10-5-44 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle			
			H.I. 874.80					
G.E.	288°-10'	370				2.7		872.1
"	276°-00'	253				8.3		66.5
"	161°-15'	35				2.3		71.5
"								
N.E COR SHED 12' WIDE	271°-15'	30				5.6		69.2
S.E. " "	238°-30'	35				4.9		69.9
N+S FENCE LINE	130°-30'	150				4.0		70.8
" " "	148°-15'	218		+	5°-25'	20.6	-5.0	+15.6 90.4
G.E.	162°-00'	195		+	4°-10'	14.2	-5.0	+9.2 84.0
⊥ DRIVE	237°-30'	28				-4.6		70.2
G.E.	120°-45'	133		+	11°-45'	11.0	-5.0	+6.0 80.8
" Top WALL	166°-30'	152		+	3°-10'	8.4	-5.0	+3.4 78.2
" FOOT "	168°-30'	160				0.7		74.1
" Top+END "	166°-00'	110		+	3°-10'	6.1	-5.0	+1.1 75.9
" FOOT+END "	166°-30'	108		+	0°-20'	0.6	1.0	-0.4 74.4
EDGE DITCH	287°-10'	102				9.1		65.1

Page 4 Transit Obs. Line.
 Date 10-5-44 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
	<u>H. 1</u>	<u>874.80</u>							
N.E. COR. HOUSE ^{22' WIDE}	171°-00'	118	—				1.1		873.7
N.W. " "	187°-45'	118	—				3.3		71.5
G.E.	282°-00'	237					8.7		66.1
"	212°-30'	106					7.6		67.2
"	211°-30'	293					6.1		68.7
"	278°-45'	407		+ 1/2	+2.0		2.4	- 0.4	74.4
✕ DITCH	237°-40'	194	—				10.3		64.5
" "	227°-10'	322	—				10.9		63.9
EDGE DITCH	237°-50'	180					7.3		65.5
" "	228°-45'	310					8.6		66.2
" "	237°-30'	260					8.9		65.9
G.E.	214°-45'	256					8.4		66.4
✕ DRIVE	201°-00'	95					5.6		69.2
" "	189°-15'	217					5.2		69.6
G.E.	190°-40'	372					7.1		67.7
"	206°-20'	402					7.2		67.6

Page 5 Transit Obs. A.L Line C.O. DITCH #2
 Date 10-5-44 Rec. A.M

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
		<u>H.I. 874.80</u>							
G.E.	<u>195°-30'</u>	<u>220</u>					<u>7.4</u>		<u>867.4</u>
"	<u>237°-30'</u>	<u>395</u>					<u>6.9</u>		<u>67.9</u>
"	<u>231°-00'</u>	<u>442</u>					<u>6.8</u>		<u>68.0</u>
EDGE DITCH	<u>227°-20'</u>	<u>382</u>					<u>8.6</u>		<u>66.2</u>
" "	<u>225°-45'</u>	<u>440</u>					<u>7.0</u>		<u>67.8</u>
" "	<u>223°-20'</u>	<u>470</u>					<u>6.9</u>		<u>67.9</u>
G.E.	<u>234°-20'</u>	<u>568</u>		<u>+</u>	<u>1/2 + 2.84</u>	<u>-3.6</u>		<u>-0.8</u>	<u>74.0</u>
EDGE DITCH	<u>223°-20'</u>	<u>538</u>					<u>6.6</u>		<u>68.2</u>
" "	<u>221°-50'</u>	<u>551</u>					<u>7.1</u>		<u>67.7</u>
☿ DITCH	<u>223°-45'</u>	<u>499</u>	<u>—</u>				<u>10.1</u>		<u>64.7</u>
TOE RD	<u>226°-20'</u>	<u>583</u>					<u>3.5</u>		<u>71.3</u>
☿ DITCH	<u>222°-10'</u>	<u>552</u>	<u>—</u>				<u>9.9</u>		<u>64.9</u>
EDGE "	<u>222°-30'</u>	<u>600</u>					<u>4.9</u>		<u>69.9</u>
TOE RD	<u>224°-10'</u>	<u>595</u>					<u>3.9</u>		<u>70.9</u>
→ F.L 36" CONE ^{EAST} _{COLT.}	<u>222°-15'</u>	<u>600</u>	<u>—</u>				<u>10.30</u>		<u>64.5</u>
G.E.	<u>217°-50'</u>	<u>620</u>					<u>3.2</u>		<u>71.6</u>

Page 6 Transit Obs. Line
 Date 10-5-44 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
			H.I. 874.80						
G.E. FENCE LINE	210°-40'	570					4.2		870.6
" " "	201°-00'	530					1.0		73.8
" " "	170°-50'	508					1.6		73.2
⊥ DRIVE	320°-00'	8					6.0		68.8
W.S. + F.C. N + S FENCE LINE	93°-30'	116					10.1		64.7
W.S. LONG LAKE	353°-00'	126							864.69
G - E.	353°-00'	120					8.0		66.8
→ H.I. 5.15	882.42 982.42	882.45							
AT Δ #1									877.30
TO W 1/4 SECTION 20	293°-41'	890							
Δ #2	197°-37'	589		- 1/2			2.94	- 9.20 - 12.14	870.31
⊥ DRIVE	67°-30'	390					10.8		71.7
F.C. N + E FENCE	12°-30'	85					11.2		71.3
G.E.	59°-30'	486					4.9		77.6
FENCE LINE N + S	63°-10'	570	✓	+	1°-30'	+ 15.0	5.0 + 10.0		84.8

Page 7 Transit Obs. Line
 Date 10-5-44 Rec. H.I. 882.45

OBJECT	AZIMUTH	STADIA	DISTANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
FENCE LINE N+5	10°-20'	294		-	1/2	-1.47	-13.0	-14.47	68.0
END N+5 FENCE	77°-50'	520	✓	+	2°-15'	-20.4	5.0	+15.4	97.8
G.E.	77°-20'	450					0.4		882.1
"	356°-00'	439					7.4		75.1
TOE RD	77°-20'	388					9.1		73.4
Φ DRIVE	353°-00'	532					6.4		76.1
TOE RD	78°-10'	346					11.9		70.6
Φ DRIVE	348°-30'	440					8.3		74.2
TOE RD	88°-30'	325					6.9		76.3
Φ DRIVE	344°-10'	365					9.4		72.2
SHLDR RD	88°-30'	347		+	1/2	+1.74	-0.9	+0.84	83.3
" "	88°-30'	376		+	1	+3.76	1.4	+2.36	84.9
Φ RD 33' WIDE	88°-30'	365		+	1/2	+1.83	0.0	+1.83	84.3
TOE RD	88°-10'	390		+	1	+3.90	7.2	-3.30	79.2
Φ DRIVE	342°-20'	277					8.7		73.8
G.E.	89°-10'	450		+	1°-00'	+7.8	+5.0	+2.8	85.3

Page 9 Transit.....Obs.....Line.....Date 10-5-44 Rec.....

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle			
			H.1 882.45					
G.E	3°-10'	426				10.3		972.2
☿ FREDEEN RD 24' WIDE	94°-10'	364				5.0		97.5
" " "	94°-15'	230				3.5		78.9
TOE " "	90°-00'	230				5.5		76.9
" " "	99°-20'	230				4.7		77.7
☿ " "	93°-10'	71				5.1		77.3
TOE " "	80°-20'	70				6.9		75.5
G-E	3°-00'	520				9.2		73.2
FENCE LINE	10°-00'	564		- 1 1/2	2.82-	11.2	-14.0	68.4
☿ LONG-LAKE 30' RD	329°-10'	370				9.0		73.4
" " " " "	335°-50'	268				8.3		74.1
" " " " "	341°-40'	146				7.2		75.2
" " " " "	162°-30'	184				2.1		80.3
TOE - LONG LAKE RD	293°-30'	48				10.8		71.6
" " " " "	328°-00'	111		- 2°-10'	4.2	10.0	-14.2	68.2
→ F.L. 36" CONC ^{WEST} DRAIN	329°-50'	119		- 2°-06'	4.36	13.35	-17.7	864.75

Page 9 Transit Obs. A. L. Line CO. DITCH #2
 Date 10-5-44 Rec. A.M.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle			
				</				

Page 10 Transit Obs. Line
 Date 10-5-44 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
	<u>H. 1. 882.45</u>								
EDGE DITCH	296°-50'	130		-	3°57'	8.9	5.0	-13.9	68.5
" "	289°-10'	122		-	4°50'	10.3	5.0	-15.3	67.1
G.E	193°-20'	125					5.0		77.4
" "	211°-50'	170		-	1/2	-0.8	11.7	-12.5	70.0
EDGE DITCH	214°-00'	300		-	1/2	1.50	11.6	-13.10	69.3
" "	254°-30	140		-	1/2	0.7	13.1	-13.8	68.6
⊥ DRIVE	284°-50'	300					10.5		71.9
FENCE COR SW	268°-30'	418					8.5		73.9
SO. FENCE LINE	257°-50'	458					2.7		79.7
G.E	248°-40'	505		+	1	5.05	1.8	+3.25	85.7
" "	252°-10'	321					10.8		71.6
" "	270°-10'	238					10.2		72.2
" "	297°-30'	173		-	1	1.73	13.1	-14.83	67.6
⊥ SIDE DITCH	211°-40'	141		-	2°-38'	6.5	10.0	-16.5	65.9

Page. 11 Transit. Obs. Line.
 Date. 10-5-44 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int. Down- or Angle	Rod Equiv.			
H.I. 4.35	G.E.-5	^{874.66} ^{874.62}	874.64						
AT Δ #2									870.31
TO Δ #1	17°-37'	589		+	1 1/2	+8.83	6.15	+2.68	877.30
Δ #3	175°-33'	725					3.22		871.42
Δ #2A	221°-09'	269					6.42		868.22
✓ AZI EAST COR HOUSE	355°-11'								
EDGE DITCH	3°-30'	444					6.7		67.9
" "	355°-00'	240					4.2		70.4
G.E	345°-20'	450		+	1	4.50	7.7	-3.2	71.4
"	328°-20'	415		+	2°-20'	+16.9	-10.0	+6.9	81.5
"	340°-50'	326		+	1°-25'	8.1	10.0	-1.9	72.7
EDGE DITCH	345°-30'	183					5.7		68.9
" "	3°-50'	390					7.8		66.8
Φ "	3°-10'	390	-				9.2		65.4
G.E	318°-50'	292		+	1	2.92	7.4	-4.48	70.1
EDGE DITCH	2°-20'	327					6.0		68.6

Page 12 Transit.....Obs.....Line.....
 Date 10-5-44 Rec.....

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.		
	H.I	874.64						
to DITCH	1°-30'	327	-			8.1		865.8
EDGE DITCH	289°-40'	121				4.4		70.2
" " + F.C.W.	263°-15'	148				4.1		70.5
N+S FENCE LINE	313°-15'	460		+	1°-05'	+8.7	5.0	+3.7 78.3
FENCE COR N+W	306°-45'	425		+	0°-40'	+5.1	9.0	-3.9 70.7
G.E.	10°-30'	330				5.8		68.8
"	182°-40'	345		+	1/2	1.13	6.6	-4.81 69.7
"	282°-00'	370		+	1	+3.70	10.0	-6.3 68.3
"	29°-10'	392		+	1°-16'	+8.9	5.0	+3.9 78.5
"	281°-30'	250		+	1	+2.5	7.5	-5.0 69.6
"	41°-00'	338		+	1°-35'	+9.1	5.0	+4.1 78.7
"	54°-20'	308		+	1°-13'	+6.5	5.0	+1.5 76.1
"	47°-40'	220		+	1°-50'	+7.0	10.0	-3.0 71.6
"	32°-45'	250		+	1°-25'	+6.2	10.0	-3.8 70.8
E+W FENCE LINE	274°-20'	287		+	0°-50'	+4.3	-10.0	-5.7 68.9
G.E.	13°-50'	200				4.1		70.5

Page 13 Transit Obs. A.L. Line. C.O. DITCH #2
 Date. 10-5-44 Rec. A.M.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int.	Rod			
				Down-	or Angle	Equiv.			
	H.I.	874.64							
EDGE DITCH	354°-40'	201					5.7		868.9
" "	353°-15'	201					8.9		65.7
" "	311°-00'	118					9.1		65.5
EDGE "	310°-40'	110					4.2		70.4
" "	246°-20'	196					5.5		69.1
G.E.	322°-00'	69					4.8		69.8
" "	31°-30'	61					3.3		71.3
" "	53°-20'	102		+	1 1/2	1.5	-0.7	+0.8	75.4
EDGE DITCH	244°-20'	180					4.4		70.2
G.E.	240°-30'	175					5.7		68.9
" "	69°-00'	205		+	2°-45'	+9.8	5.0	+4.8	79.4
" "	102°-00'	192		+	3°-15'	+10.9	5.0	+5.9	80.5
" "	108°-30'	135		+	3°-30'	+8.2	5.0	+3.2	77.8
" "	121°-30'	95					2.6		72.0
" "	198°-00'	160					6.2		68.4
" "	157°-40'	167					4.4		70.2
" "	180°-30'	101					5.1		69.5

Page 14 Transit.....Obs.....Line.....
 Date 10-5-04 Rec.....

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle			
H.I. 874.64								
G.E	132°-10'	228		+	2°-10'	+ 8.6	-5.0	+ 3.6 878.2
"	123°-10'	275		+	2°-10'	10.4	5.0	+ 5.4 80.0
"	137°-00'	370		+	1°-30'	9.7	6.0	+ 3.7 78.3
"	255°-00'	72					5.4	69.2
"	148°-20'	333.		+	1°-13'	7.1	5.0	+ 2.1 76.7
"	157°-20'	304					3.7	70.9
EDGE DITCH	271°-20'	122					5.3	69.3
"	272°-00'	126	—				8.9	65.7
G.E	268°-30'	108					5.2	69.4
"	172°-10'	300					6.2	68.4
"	188°-30'	320					7.2	67.4
"	146°-30'	353		+	1°-12'	+ 7.4	5.0	+ 2.4 77.0
"	135°-30'	415		+	1°-22'	+ 9.9	5.0	+ 4.9 79.5
"	183°-00'	430					6.0	68.6
G.E.	149°-10'	540		+	1°-03'	9.9	10.0	- 0.1 74.5
"	168°-30'	455					4.3	70.3

Page 15 Transit Obs. LineDate 10-5-44 Rec.

OBJECT	AZIMUTH	STADIA	DISTANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
			H. I. 874.64						
SHORE LINE	204°-10'	348					9.3		865.30
W.S. PIKE LAKE	264°-10'	350							
Top BANK	196°-30'	440		+	1/2	2.2	8.8	-6.60	68.0
W.S. PIKE LAKE	196°-30'	445							
Top BANK	192°-10'	530		+	1/2	2.6	10.1	-7.50	67.1
G.E	177°-15'	546		+	1/2	2.7	7.0	-4.30	70.3
"	173°-15'	546					3.1		71.5
"	168°-10'	570		+	1	5.7	1.2	+4.5	79.1
^{10/11} H. I 4.24 G.E-5			872.46 } 872.46 } 872.46 ✓						
PT Δ 2A 8' FROM S. L									868.22 -
Δ 2	41°-09'	269		+	1/2	+1.35	3.50	-2.15	870.31 -
✓ AZI No. EDGE CHIMNEY N.E	42°-55'								
WATER SURFACE PIKE LAKE							5.93		866.53
Φ DITCH	352°-40'	91					6.4		66.0
" "	355°-30'	100					6.15		66.3
" "	1°-10'	115		+	1/2	5.7	6.9		65.5

Page 16 Transit 14-6-44 Obs. 14-6-44 Line 14-6-44
 Date 14-6-44 Rec. 14-6-44

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int. Down- or Angle	Rod Equiv.			
H. 1 872.46									
W. S. PIKE LAKE	339°-15'	80	—				5.93		866.53
" " "	327°-10'	72	—				5.93		66.53
1 1/2' BANK " " "	324°-40'	150	—				5.93		66.53
" " " "	315°-40'	270	—				5.93		66.53
1' BANK " " "	304°-50'	430	—						
— " " "	297°-50'	512	—						
— " " "	301°-10'	780	—						
— " " "	293°-00'	930	—						
G. E.	339°-15'	82					5.3		67.1
" "	327°-45'	92					3.9		68.5
" "	327°-00'	152		+	1	1.52	5.3	-3.78	68.7
" "	327°-45'	247		+	1°-20'	5.7	10.0	-4.30	68.1
" "	327°-00'	460		+	1	4.6	7.5	-2.90	69.6
" "	323°-15'	720		+	1/2	3.6	4.5	-0.90	71.6
" "	298°-50'	515					5.5		66.9
" "	316°-00'	808		+	1/2	4.0	4.5	-0.50	71.9
COR FENCE LINE NTS	301°-10'	632	✓	+	1/2	3.1	6.3	-3.2	69.2

Page 17 Transit Obs. Line C. O. DITCH #2
 Date 10-6-44 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
	<u>H. I. 872.46</u>								
G.E	<u>305°-10'</u>	<u>970</u>					<u>0.0</u>		<u>872.46</u>
FENCE LINE N+S	<u>305°-20'</u>	<u>572</u>	<u>-</u>				<u>4.1</u>		<u>68.3</u>
G.E	<u>299°-50'</u>	<u>1050</u>		<u>+</u>	<u>1/2</u>	<u>5.2</u>	<u>4.7</u>	<u>+0.5</u>	<u>72.9</u>
"	<u>302°-00'</u>	<u>780</u>					<u>5.9</u>		<u>66.5</u>
"	<u>291°-40'</u>	<u>1150</u>		<u>+</u>	<u>1/2</u>	<u>5.7</u>	<u>3.2</u>	<u>+2.5</u>	<u>74.9</u>
"	<u>292°-50'</u>	<u>940</u>					<u>6.0</u>		<u>66.4</u>
"	<u>282°-50'</u>	<u>1210</u>					<u>0.0</u>		<u>72.46</u>
"	<u>270°-00'</u>	<u>1160</u>		<u>+</u>	<u>1/2</u>	<u>5.8</u>	<u>3.7</u>	<u>+2.1</u>	<u>74.5</u>
"	<u>262°-00'</u>	<u>1160</u>		<u>+</u>	<u>1/2</u>	<u>5.8</u>	<u>4.0</u>	<u>+1.8</u>	<u>74.2</u>
"	<u>264°-20'</u>	<u>1100</u>					<u>5.3</u>		<u>67.1</u>
1 BANK W.S. PIKE LAKE	<u>283°-40'</u>	<u>1030</u>	<u>-</u>				<u>5.93</u>		<u>66.53</u>
" " " "	<u>273°-10'</u>	<u>1075</u>	<u>-</u>				<u>"</u>		<u>66.53</u>
" " " "	<u>264°-15'</u>	<u>1064</u>	<u>-</u>				<u>"</u>		<u>66.53</u>
G.E	<u>251°-40'</u>	<u>1180</u>		<u>+</u>	<u>1/2</u>	<u>5.9</u>	<u>4.8</u>	<u>+1.1</u>	<u>73.5</u>
"	<u>253°-40'</u>	<u>1090</u>					<u>4.8</u>		<u>67.6</u>
W.S. PIKE - LAKE	<u>253°-40'</u>	<u>1080</u>	<u>-</u>				<u>5.93</u>		<u>66.53</u>
G.E.	<u>245°-15'</u>	<u>1200</u>					<u>0.6</u>		<u>71.8</u>

Page 19 Transit.....Obs.....Line.....
 Date 10-6-44 Rec.....

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
<u>H. 1 872.46</u>									
2' BANK W.S. PIKE LAKE	247°-20'	1100	—				5.93		866.53
1' " " "	246°-00'	1130	—				"		66.53
1 1/2' " " "	232°-10'	1180	—				"		66.53
G.E.	238°-10'	1250		+	1/2	6.2	2.1	+4.1	76.5
"	231°-40'	1300		+	1/2	6.5	0.8	+5.7	78.1
"	232°-00'	1310		+	1	13.1	4.0	+9.1	81.5
H. 1. 4.37	G.E. 5	875.79	} 875.78						
FT Δ #3	2 DRIVE C' NO.	875.78							
TO Δ #2	355°-33'	725					5.47		871.42
TO Δ #4	181°-12'	1272					3.12		870.31
CHECK AZI.	355°-17'	E. GABLE HOUSE							872.66
W.S. PIKE LAKE	252°-40'	1170	—						
1 1/2' BANK " " "	241°-10'	1065	—						
1' BANK " " "	236°-00'	1000	—						
1' " " " "	214°-10'	932	—						

Page 19 Transit Obs. Line
 Date 10-6-44 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int.	Rod			
				Down-	or Angle	Equiv.			
	H.I. 875.78								
G. E	252°-40'	1200					8.9		866.9
"	253°-15'	1300		+	1/2	6.5	2.5	+4.0	79.8
"	253°-10'	1280					2.3		73.5
"	245°-50'	1340		+	1/2	6.7	4.2	+2.5	78.3
"	245°-30'	1320					0.5		75.3
"	241°-22'	13.80		+	1/2	6.8	4.0	+2.8	78.6
"	241°-10'	1350					0.0		75.8
"	233°-30'	1310					2.6		73.2
"	225°-00'	1280					2.7		73.1
"	219°-00'	1310		+	1/2	6.5	6.3	+0.2	76.0
"	212°-45'	1310					2.3		73.5
"	184°-00'	489					8.9		66.9
"	190°-00'	527					9.0		66.8
W.S PIKE LAKE	191°-40'	530	—				10.0		65.8
1' BANK	206°-00'	420	—						
G. E	165°-45'	460					6.5		69.5
"	153°-30'	490					2.9		72.9

Page. 20 Transit.....Obs.....Line.....Date. 10-6-44 Rec.....

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
	<u>H. 1. 875.78</u>								
G.E	144°-00'	580		+	1°-40'	15.9	5.0	+10.9	886.7
"	133°-45'	470		+	1°-30'	12.3	5.0	+7.3	83.1
"	143°-15'	403					1.7		74.1
"	159°-00'	350					5.5		70.3
1/2 BANK W. S. PIKE - LAKE	215°-00'	354	—						
2' BANK W.S. " "	227°-40'	275	—						
1/2 BANK " " "	264°-30'	210	—						
" " " "	294°-30'	223	—						
G.E	180°-50'	340					7.9		67.9
"	196°-20'	340					8.8		67.0
"	223°-40'	220					8.0		67.8
"	170°-00'	193					6.0		69.8
"	295°-15'	207					7.9		67.9
"	132°-30'	354		+	1°-37'	10.0	10.0	0.0	75.8
"	126°-00'	385		+	2°-10'	14.5	10.0	+4.5	80.3
"	329°-30'	127					5.6		70.2
"	149°-30'	88					5.3		70.5

Page 21 Transit Obs. A.L. Line DITCH #2
 Date 10-6-44 Rec. A.M.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.		
	H.I. 875.78							
☿ DRIVE	273°-30'	144				6.7		869.1
" "	285°-00'	67				6.0		69.8
" "	91°-40'	87				1.5		74.3
" "	93°-30'	330		+	1°-42'	9.8	5.0	+4.8
" "	93°-10'	227		+	2°-15'	8.9	5.0	+3.9
G.E	62°-00'	110		+	2°-00'	3.8	5.0	-1.2
G.E	26°-30'	105		+	3°-20'	6.1	5.0	+1.1
"	357°-50'	96				4.7		71.1
"	213°-00'	97				6.4		69.4
"	183°-10'	170				6.6		69.2
"	246°-30'	132				7.6		68.2
☿ LONG LAKE RD	93°-50'	547		+	2°-32'	24.1	5.0	+19.1
" " " "	66°-10'	510		+	2°-10'	19.3	5.0	+14.3

Page 22 Transit.....Obs.....Line.....
 Date 11-6-24 Rec.....

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
H.I. 4.33 AT Δ #4	G.E.-5	876.99 - 877.08	877.03						872.70
Δ #3	1°-12'	1272					5.66		871.42
CHECK AZI Δ #5	356°-39'	W. GABLE HOUSE No.							
	184°-17'	800		+	1/2	+4.00	-2.55	+1.45	878.48
W.S. PIKE LAKE	352°-20'	620	-						
" " "	348°-20'	550	-						
G.E.	35°-00'	553		+	2	+11.06	-2.2	+8.86	85.9
"	43°-10'	454		+	1 1/2	+6.81	-3.1	+3.71	80.7
"	38°-00'	428		+	1 1/2	+6.42	-1.7	+4.72	81.7
"	67°-30'	310		+	1/2	+4.65	-2.7	+1.95	79.0
Φ E+WRD SECTION? LINE?	62°-25'	485	-	+	2	+9.70	-1.5	+8.20	85.2
" " " "	52°-10'	385	-	+	1	+3.85	1.6	+2.25	79.3
G.E.	46°-50'	128					4.9		72.1
3RD SECTION E+WRD NTS RD	42°-40'	328	-	+	1/2	1.64	1.6	+0.04	77.1

Page. 23 Transit.....Obs.....Line.....
 Date. 10-6-24 Rec.....

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
H. 1 877.03									
G. E	353°-00'	620					10.5		866.5
"	356°-50'	628					9.1		67.3
"	350°-45'	540					10.1		66.9
"	4°-20'	675					8.4		68.6
"	359°-30	490					9.1		67.9
"	16°-00'	652					6.7		70.3
"	19°-10'	560					6.2		70.8
"	21°-30'	670		+	1/2	3.8	3.3	+0.5	77.5
"	26°-50'	520		+	1/2	2.6	2.0	+0.6	77.6
"	28°-20'	700		+	2	14.0	4.1	+9.9	86.9
"	64°-30'	235					25		74.5
"	321°-00'	110					8.2		68.8
± N+S RD	32°-10'	433		+	1/2	2.2	1.6	+0.6	77.6
G. E	25°-30'	410					4.5		72.5
EDGE DITCH	302°-10'	150					7.8		69.2
± "	301°-20'	152	—				9.4		67.4
EDGE "	300°-10'	157					8.2		68.8

Page. ²⁴ Transit. Obs. Line.
 Date. ¹⁰⁻⁶⁻⁴⁴ Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
H/ 877.03									
G.E.	13°-40'	390.					7.1		869.9
"	354°-20'	390					9.5		67.5
W.S. PIKE - LAKE	341°-00'	445 -							
EDGE DITCH	319°-00'	242					8.4		68.6
" "	317°-10'	247					8.3		68.7
✓ " "	318°-30'	245 -					9.9		67.1
" "	325°-30'	345 -					11.1		65.9
EDGE " "	324°-30'	344					8.9		68.1
G.E.	342°-20'	425					10.1		66.9
"	347°-20'	320					9.5		67.5
"	348°-10'	210					8.4		68.6
"	11°-30'	213					7.5		69.5
"	35°-30'	246					5.2		71.8
EDGE DITCH	326°-40'	345					9.0		68.0
							6.7		68.8

Page 25 Transit Obs. A.L. Line DITCH #2
 Date 10-6-44 Rec. A.M.

OBJECT	H.I.	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
					Up+	No. of Int.	Rod Equiv.			
					Down-	or Angle				
G.E	11.1	288°-30'	265					7.9		869.1
"		284°-20'	370					7.0		76.0
EDGE SIDE DITCH		283°-40'	450					6.9		70.1
" " "		283°-40'	453					7.3		69.7
2 " "		293°-40'	452	-				8.1		68.9
" MAIN "		189°-45'	545	-				6.9		70.1
EDGE " "		190°-30'	546					2.9		74.1
" " "		189°-10'	545					3.2		73.8
G.E		277°-50'	630					3.9		73.1
"		272°-40'	670		+	1/2	3.4	0.8	+2.6	79.6
EDGE SWAMP		261°-10'	710					4.4		72.6
" "		260°-50'	660					5.1		71.9
G.E		167°-00'	520		+	1/2	2.6	2.8	-0.2	76.8
G.E		182°-10'	535					1.5		75.5
"		157°-00'	548		+	1	5.5	2.0	+3.5	80.5
EDGE SIDE DITCH		262°-30'	472					4.4		72.6

Page 26 Transit.....Obs.....Line.....
 Date 10-6-44 Rec.....

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.		
ϕ SIDE DITCH	262°-30'	470	-			7.1		869.9
EDGE " "	262°-30'	469				4.5		72.5
G.E	149°-30'	588		+	1 1/2	8.8	+6.3	83.3
"	258°-15'	312				5.5		71.5
ϕ N+ S RD	151°-00'	470				4.0		73.0
ϕ DITCH	223°-30'	130	-			9.2		67.8
EDGE " "	224°-30'	132				7.1		69.9
" "	221°-30'	127				5.5		71.5
" "	199°-15'	247				5.8		71.2
" "	202°-00'	250				6.3		70.7
ϕ " "	200°-40'	249	-			8.6		68.4
G.E	138°-00'	436		+	1 1/2	2.1	+1.4	78.4
ϕ N+ S RD	144°-30'	400				1.0		76.0
G.E	146°-30'	390				2.5		74.5
"	160°-20'	364				5.1		71.9
"	176°-15'	350				4.3		72.7

Page 27 Transit Obs. Line

Date 11-8-99 Rec. _____

Page 28 Transit Obs. Line
 Date 10-2-44 Rec.

OBJECT	H.I	876.89	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
						Up+ Down-	No. of Int. or Angle	Rod Equiv.			
EDGE SIDE DITCH			251°-30'	505					3.6		873.3
" "			251°-50'	515					3.7		73.2
" "			251°-50'	510	-				6.0		70.9
EDGE SWAMP			253°-30'	830					2.5		74.4
W.S DITCH			322°-45'	-					10.4		66.5
EDGE SWAMP			253°-15'	650					4.8		72.1
TOE SLOPE			250°-45'	7.25		+	1/2	3.6	6.8	-3.2	73.7
2' DEEP 2' SIDE DITCH			151°-00'	228	-				6.4		70.5
EDGE SWAMP			235°-30'	635					3.7		73.2
G.E			148°-10'	253					5.2		71.6
2' DEEP 2' SIDE DITCH			235°-40'	508	-				3.5		73.4
" " " "			137°-00'	285	-				4.0		72.9
" D RIVE			135°-30'	290					2.1		74.8
Top KNOLE			229°-50'	435		+	1	4.3	1.5	+2.8	79.7
G.E			134°-40'	300		+	1/2	1.5	1.7	-0.2	76.7
"			231°-00'	410					2.3		74.6

Page 27 Transit H.L Obs. DITCH #2 Line
 Date 10-7-44 Rec. A.M

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int.	Rod			
				Down-	or Angle	Equiv.			
G.E	226° 00'	398					1.9		875.0
"	239° 30'	368					3.6		73.3
± DITCH	194° 50'	345	-				7.7		69.2
EDGE DITCH	196° 10'	346					5.0		71.9
" "	210° 15'	160					6.0		70.9
G.E	227° 45'	500		+	1	5.0	4.7	+0.3	77.2
"	115° 10'	255		+	1 1/2	3.8	2.1	+1.7	78.6
± RD	117° 15'	230		+	1/2	1.1	0.5	+0.6	77.5
G.E	233° 00'	530		+	1 1/2	2.6	6.0	-3.4	73.5
"	125° 40'	175					2.8		74.1
"	165° 45'	94					2.8		74.1
"	208° 50'	105					4.5		72.4
"	234° 00'	710		+	1 1/2	3.5	5.5	-2.0	74.9
"	236° 00'	730					3.5		73.4
"	268° 30'	70					6.3		70.6
"	236° 00'	770					1.5		75.4
"	88° 15'	43					4.2		75.7

OBJECT	H.I. 876.89 AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		Rod Equiv.	READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle				
G.E	231°-20'	830	-				2.5		874.4
"	90°-00'	110	-				1.5		75.4
"	231°-30'	880	-	+	1	8.8	4.8	+4.0	80.9
"	89°-30'	177	-				2.8		74.1
✕ RD	92°-20'	209	-				1.2		75.7
G.E	232°-00'	820	-	+	1/2	4.1	4.7	-0.6	76.3
"	94°-10'	233	-	+	1/2	1.2	0.2	+1.0	77.9
" Top Hill	267°-00'	990	-	+	2 1/2	24.75	2.1	+22.65	99.5
" " "	265°-40'	1030	-	+	2	20.6	1.0	+19.60	96.5
" " "	254°-50'	1045	-	+	2	20.9	3.8	+17.1	94.0
" " "	249°-30'	1080	-	+	2	21.6	4.0	+21.2	98.1
H.I. 4.65 G.E.-5		H.I. 883.13							
ATA #5									878.48
To Δ #4	4°-17'	800							872.70
CHECK #21	358°-13'					EAST GABLE HINSE NO			

Page 31 Transit Obs. Line
 Date 10-7-44 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int. Down- or Angle	Rod Equiv.			
<u>H.I. 883.13</u>									
♀ DITCH	311°-30'	63	✓				12.0		871.1
EDGE "	316°-15'	55	✓				8.7		74.4
" "	307°-00	70	✓				8.7		74.4
" "	350°-00'	160	✓				9.4		73.7
" "	345°-30'	166	✓				9.0		74.1
♀ "	347°-30'	160	✓	-	1/2	0.8	12.0	-12.80	70.3
G.E	12°-20'	152	✓				8.2		74.9
"	345°-16'	288	✓				9.2		73.9
♀ RD	31°-30'	170	✓				5.2		77.9
G.E	337°-00'	291	✓				7.0		76.1
"	325°-20'	310	✓				6.9		76.2
"	75°-10'	278	✓	+	3°-40'	17.8	10.0	+7.8	90.9
"	309°-00'	372	✓				0.0		83.13
"	102°-10'	272	✓	+	3°-00'	15.2	5.0	+10.2	93.3
"	305°-00'	400	✓	+	1/2	2.0	1.1	+0.9	84.0
"	114°-00'	138	✓	+	00°-40'	1.8	0.0	+1.8	84.9
"	281°-00'	412	✓	+	1/2	2.0	0.0	+2.0	85.1

Page. 32 Transit.....Obs.....Line.....

Date. 10-7-44 Rec.....

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
H.I. 883.13									
G.E	293°-15'	328					4.0		879.1
Q RD	161°-10'	60					5.6		77.5
G.E	287°-20'	235					5.5		77.6
Q DITCH	229°-48'	76					11.8		71.3
EDGE DITCH	226°-00'	72					7.7		75.4
" "	231°-00'	80					9.9		73.2
G.E	298°-45'	130					7.0		76.1
H.I. 4.60 G.E-5 H.I. 883.08									
AT Δ #5									878.48-
CHECK AZI	358°-13'								EAST GABLE HOUSE
Δ #6	209°-02'	1360			+ 1/2	+6.80	-6.10 +0.70		883.78
Δ #5-A	205°-16'	528					-3.35		879.73-
EDGE DITCH	236°-40'	73					10.5		72.6
G.E	238°-30'	76					8.6		74.5
"	248°-50'	111					8.1		75.0

Page 33 Transit H.L Obs. DITCH #2 Line.
 Date 10-9-44 Rec. A.M

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int.	Rod			
				Down-	or Angle	Equiv.			
EDGE DITCH	200°-50'	230					8.8		874.3
Top HILL	253°-00'	460		+	2	9.2	2.2	+7.0	90.1
2 DITCH	202°-00'	230	-				10.8		72.3
Top. HILL	264°-40'	443		+	3	13.3	2.5	+10.8	93.9
G. E.	255°-45'	154					7.2		75.9
"	262°-00'	236		+	1	2.4	5.1	-2.7	80.4
"	264°-30'	333		+	2	6.7	7.0	-0.3	82.8
"	244°-00'	388		+	1	3.9	5.6	-1.7	81.4
TOE RD	181°-50'	240					7.7		75.4
" "	170°-00'	243					4.1		79.0
" "	152°-00'	270		+	1	2.7	1.9	+0.8	83.9
" "	146°-00'	292		+	1°-40'	7.6	5	+2.6	85.7
" "	136°-00'	338		+	2°-25'	14.2	5	+9.2	92.3
G. E.	234°-30'	304		+	1 1/2	4.56	8.5	-3.9	79.2
2 CEMETARY RD. 30'	139°-30'	360	-	+	2°-08'	13.4	5	+8.4	91.5
" " " "	157°-00'	294	-	+	1°-35'	8.1	5	+3.1	86.2
G. E.	220°-30'	235					6.8		76.3

Page 34 Transit.....Obs.....Line.....
 Date.....10-9-14.....Rec.....

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
EDGE DITCH	204°-50'	201					9.5		873.6
TOE RD	219°-30'	310					6.1		77.0
F.L. 30" C.M. X DRAIN	201°-45'	250	—				12.00		71.1
± 30' RD CEMETARY	181°-20'	269	—				1.0		82.1
" " " "	199°-20'	280	—				2.5		80.6
" " " "	216°-30'	330	—				2.3		80.8
" " " "	238°-00'	488	—	+	1 1/2	7.3	4.7	+2.6	85.7
TOE RD	240°-10'	472	—	+	1 1/2	7.1	6.6	+0.5	83.6
Top CNT	239°-20'	560		+	1°-35'	15.5	5.0	+10.5	93.6
" " "	246°-40'	550		+	1°-45'	16.8	5.0	+11.8	94.9
± 30' CEMETARY RD	242°-10'	549	—	+	1	5.5	1.2	+4.3	87.4
TOE Rd.	176°-00'	2.90		+	1/2	1.4	4.9	-3.5	79.6
INLET 30" C.M. X DRAIN	197°-30'	3.10	—				11.15		71.93
TOE Rd.	216°-30'	3.60					7.3		75.8
" "	228°-15'	4.40		+	1	4.4	8.2	-3.8	79.3

Page. 35 Transit Obs. Line
 Date. 10-9-44 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int. Down- or Angle	Rod Equiv.			
H.I. 4.48 G.E.-4				884.21 884.22	} 884.21				
AT Δ #5A									879.73 ✓
Δ #5	25°-16'	528					5.74		878.48 -
E 2' DITCH - 1 1/2' DEEP	30°-30'	2.05	✓				9.2		75.0
" "	15°-00'	1.90	✓				9.3		74.9
E DITCH	36°-30'	2.25	✓				12.2		72.0
TOP " W.	35°-30'	2.20					10.1		74.1
" " E.	38°-20'	2.26					9.3		74.9
E 2' DITCH 1 1/2' DEEP	334°-50'	1.48	✓				9.3		74.9
G.E.	313°-40'	1.90					1.1		83.1
"	310°-30'	1.47					7.1		77.1
"	74°-00'	2.76					5.3		78.9
"	73°-45'	2.40					8.0		76.2
E 2' DITCH	315°-10'	1.20	✓				9.2		75.0
TOP DITCH	65°-30'	1.60					9.6		74.6
E "	64°-30'	1.55	✓				11.2		73.0
G.E.	8°-10'	0.65					3.5		80.7

Page 36 Transit.....Obs.....Line.....Date 10-9-44 Rec.....

OBJECT	H.I.	884.21	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
						Up+	No. of Int. Down- or Angle			
G.E.			44°-00'	0.90				3.5		880.7
"			59°-30'	1.22				8.1		76.1
TOP DITCH			65°-00'	1.44				7.9		76.3
" "			108°-30'	1.60				9.0		75.2
" "			102°-40'	1.45				8.9		75.3
± "			109°-30'	1.52	✓			11.5		72.7
G.E.			128°-00'	0.54				4.5		79.7
"			100°-00'	2.42				7.8		76.4
"			206°-10'	0.31				6.5		77.7
"			120°-15'	1.63				5.5		78.7 ?
"			74°-10'	3.53				3.2		81.0
"			108°-20'	5.15				3.1		81.1
"			109°-20'	4.90				6.2		78.0
"			118°-40'	3.40				8.5		75.7
"			258°-30'	0.82				7.8		76.4
± 4' S. DITCH			258°-30'	0.85	✓			8.8		75.4
TOP DITCH			135°-00'	2.30				9.5		74.7 ✓

Page 37 Transit. Obs. A. L. Line. DITCH #2
 Date 10-9-44 Rec. A. M.

OBJECT <u>H.1</u>	AZIMUTH <u>984.21</u>	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
⊥ DITCH	136°-20'	2.20	—				11.0		873.2
G.E.	265°-40'	2.00					4.1		80.1
"	265°-30'	2.88					1.6		82.6
N.O.S. F.L.	264°-00'	3.76	✓	+	$\frac{1}{2}$	+1.88	3.8	-1.9	82.3
TOP DITCH	151°-00'	3.45					9.2		75.0
⊥ "	151°-40'	3.40	—				10.7		73.5
EDGE SWP. ⊥ N.O.S. F.L.	249°-30'	4.05	—				6.5		77.7
G.E.	239°-40'	3.12					6.7		77.5
"	131°-30'	4.20					8.3		75.9
"	222°-30'	1.70					7.8		76.4
"	118°-00'	6.00					5.6		78.6
"	205°-40'	1.70					7.3		76.9
⊥ 3' DITCH. N.O.S.	205°-00'	1.70	✓				8.6		75.6
HILL	117°-40'	7.30		+	1°-40'	21.2	5.0	+16.2	9.00.4
G.E.	169°-30'	1.70					6.7		77.5
⊥ RD.	129°-00'	7.30		+	$\frac{1}{2}$	+3.65	3.0	+0.6	84.8
TOP DITCH	140°-30'	2.32					9.1		75.1

Page 38 Transit Obs. Line
 Date 10-9-44 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
$\frac{1}{2}$ RD.	120°-10'	6.65		+	$\frac{1}{2}$	+3.32	3.8	-0.4	883.8
TOP DITCH	154°-45'	3.75					9.1		75.1
G.E.	179°-00'	3.58					7.7		76.5
$\frac{1}{2}$ N.O.S. DITCH	181°-10'	3.52	—				8.9		75.3
G.E.	181°-10'	3.52					7.5		76.7
$\frac{1}{2}$ RD.	130°-30'	7.90		+	$\frac{1}{2}$	+3.85	3.6	+0.2	84.4
G.E.	207°-00'	3.70					7.4		76.8
"	135°-00'	7.60					5.8		78.4
"	218°-10'	4.20					7.2		77.0
"	143°-00'	6.70					7.6		76.6
N.O.S. F.L.	226°-10'	5.30	—				6.4		77.8
G.E.	156°-00'	6.08					8.2		76.0
TOP DITCH	161°-45'	5.85					8.7		75.5
$\frac{1}{2}$ "	162°-00'	5.84	—				9.8		74.4
N. & S. F.L.	217°-00'	6.40	—				7.1		77.1
TOP DITCH	165°-00'	7.35					8.2		76.0
$\frac{1}{2}$ "	165°-20'	7.35	—				9.5		74.9

Page 29 Transit 450 Obs. Line
 Date 10-9-44 Rec.

OBJECT	H.I. 884.21 AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int. Down- or Angle	Rod Equiv.			
G.E.	203°-50'	5.68						7.2	877.0
"	156°-00'	7.60						7.4	76.8
"	186°-20'	5.40						7.5	76.7
± N. & S. SIDE DITCH	174°-50'	5.28	-					8.5	75.7
G.E.	174°-30'	5.28						7.6	76.6
"	142°-40'	8.20						5.1	79.1
TOP DITCH	161°-40'	5.50						8.5	75.7
G.E.	135°-30'	8.70						4.9	79.3
TOP DITCH	164°-50'	6.90						8.6	75.6
G.E.	131°-10'	9.70		+	1	9.7	3.8	+5.9	90.1
H.I. 4.55 G.E. 4	$\left. \begin{array}{l} 888.33 \\ 888.68 \end{array} \right\}$		888.50 888.60						884.05
AT. Δ #6									883.78
Δ #5	29°-02'	13.60						10.20	878.48
CHECK Δ #5A	31°-06'	8.33						8.88	879.73 ✓
Δ #6-A	149°-36'	8.52						4.80	883.80
Δ #7	142°-00'	9.00						7.28	881.32

Page 40 Transit Obs. LineDate. 10-11-44 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
<u>H.I. 888.60</u>									
F. Cor. S + W	3°-50'	897	-	+	1	9.0	1.4	+7.6	896.2
Top CUT	3°-00'	910		+	1	9.1	1.4	+7.7	96.3
HILL	10°-00'	920		+	1	9.2	2.2	+7.0	95.6
G.E.	11°-10'	825		+	1	8.2	2.7	+5.5	94.1
Q CEMETARY RD	352°-00'	953	-	+	1/2	4.8	3.7	+1.1	89.7
" " "	334°-50'	1052	-	+	1 1/2	15.7	4.8	+10.8	99.4
G.E.	333°-00'	900		+	12-17'	20.1	10.0	+10.1	98.7
TOE RD	338°-20'	870					2.9		85.7
" "	342°-40'	860.		+	1/2	4.3	5.1	-0.8	87.8
G.E.	102°-00'	1200		+	1	12.0	2.8	+9.2	97.8
"	102°-30'	1140			1/2	5.7	2.6	+3.1	91.7
"	346°-50'	820					5.0		83.6
"	357°-30'	786					6.3		82.3
"	107°-30'	980					4.4		84.2
"	357°-50'	600					7.3		81.3
"	349°-45'	600					6.6		80.0
"	112°-30'	788					9.2		79.4

Page 41 Transit Obs. Line. Ditch 2
 Date. 10-11-44 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int.	Rod			
				Down-	or Angle	Equiv.			
G.E.	338°-10'	620	-				3.2		885.4
"	341°-50'	500	-				8.6		80.0
EDGE DITCH	116°-00'	7.05	-				14.6		77.0
⊥ "	116°-10'	704	✓	-	1/2	3.5	10.1	-13.6	75.0
G.E.	357°-30'	472	-				10.6		78.0
F.COR	75°-30'	630	-	-	1/2	3.1	9.2	-12.3	76.3
EDGE DITCH	76°-10'	620	-	-	1/2	3.1	9.7	-12.8	75.8
⊥ "	76°-10'	620	-	-	1/2	3.1	10.5	-13.6	75.0
G.E.	356°-00'	384	-				9.0		79.6
"	338°-40'	3.80	-				2.9		85.7
"	76°-30'	760	-				11.3		77.3
Top KNILE	316°-50'	330	-	+	4°20'	25.0	5.0	+20.0	908.60
⊥ DRAW	270°-45'	256	-				5.0		83.6
Top SLOPE	97°-50'	910	-				8.7		79.9
Top HILL	267°-38'	310	-	+	7°40'	41.4	5.0	+36.4	925.0
G.E.	97°-30'	980	-				2.0		86.6

Page 42 Transit 10-11-44 Obs. 10-11-44 Line 10-11-44
 Date 10-11-44 Rec. 10-11-44

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
<u>H.I. 888.60</u>									
E + W FENCE LINE	215°-45'	465	-	+	4°-00'	32.4	5.0	+27.4	916.0
G.E.	113°-10'	1340	-	+	1/2	5.7	5.6	+1.1	889.7
⊥ RAVINE	208°-10'	250	-	+	3°-45'	16.4	5.0	+11.4	900.0
Top KNOLE	195°-15'	225	-	+	4°-00'	15.7	5.0	+10.7	899.3
G.E.	116°-00'	1220	-				8.3		80.3
MONT W 1/4 SEC 29 F + W FENCES.	178°-45'	378	-	+	1	3.8	4.8	-1.0	87.6
FENCE COR NO. + W.	177°-20'	377	-	+	1/2	1.9	4.9	-3.0	85.6
G. E	121°-00'	97.3	-				8.9		79.7
N + S FENCE	171°-50'	207	-				2.0		86.6
EDGE DITCH	126°-15'	835	-				10.5		78.1
⊥ "	126°-30'	840?	-	-	1/2	4.2	8.7	-12.9	75.7
⊥ RAVINE	240°-40'	166	-	+	4°-50'	14.0	5.0	+9.0	97.6
" "	259°-20'	120	-				2.1		86.5
G.E.	136°-00'	690	-				10.5		78.1
POT HOLE	301°-30'	95	-				7.9		80.7
G.E.	147°-10'	550	-				11.0		77.6
" "	342°-20'	213	-				10.1		78.5

Page 43 Transit Obs. Line
 Date 10-11-44 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle			
	<u>H.I. = 888.60</u>							
EDGE - DITCH	126°-30'	8.25				11.7		876.7
N + S FENCE	11°-00'	210	-			11.1		77.5
" "	38°-00'	57	-			9.9		78.7
" "	152°-15'	80	-			4.0		84.6
G.E	206°-50'	85	-	+	6°-48'	10.0	+5.0	93.6
Top KNOLE	219°-00'	130	-	+	6°-10'	14.0	+9.0	97.6
G.E	140°-50'	98	-			9.8		78.8
"	304°-00'	50	-			7.0		81.6
"	100°-45'	370	✓			11.7		76.9
EDGE DITCH	97°-50	615	-	-	1/2	3.2	-12.6	76.0
G.E.	85°-00'	3.12	-			11.6		77.0
H.I. 4.44	G.E. 5	$\left. \begin{matrix} 888.24 \\ 888.33 \end{matrix} \right\}$		888.28				883.84
HT Δ #6A								883.80
Δ #6	329°-36'	852				4.28		884.05

Page 44 Transit.....Obs.....Line.....
 Date 10-11-44 Rec.....

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
<u>6-A</u> H. 1.888.28									
♀ RIDGE	117°-00'	65	—	+	7°-35'	8.6	5	+3.6	891.8
G.E. N.W. COR Woods	184°-00'	144	—				5.5		82.7
♀ RAVINE	308°-30'	550	—				4.5		83.7
EDGE "	307°-00'	565	—	+	1/2	2.8	2.1	+0.7	89.0
" SWAMP + Woods	191°-40'	270	—				7.0		81.2
TOE SLOPE	291°-50'	590	—	+	1/2	3.0	6.6 6.6	+2.4 -3.0	80.7 85.2 <i>and.</i>
EDGE SWAMP + Woods	193°-30'	520	—				6.2		82.0
" " "	223°-00'	532	—				6.5		81.7
" " "	211°-30'	550	—				6.3		81.9
" " "	221°-15'	431	—				6.9		81.3
TOE SLOPE	247°-00'	435	—	+	1°-50'	13.9	5.0	+8.9	97.1
Top HILL	266°-10'	550	—	+	2°-45'	26.4	5.0	+21.4	909.7
G.E.	240°-45'	302	—				7.3		80.9
Top HILL	255°-10'	545	—	+	2°-55'	27.7	5.0	+22.7	911.0
N + S FENCE LINE	253°-50'	450	—	+	1°-50'	14.4	5.0	+9.4	897.6
" " "	296°-00'	475	—				2.3		85.9
G.E.	248°-00'	370	—	+	1	3.7	3.2	+0.5	88.7

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 Date 10-11-44 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int. Down- or Angle	Rod Equiv.			
<u>H.I. = 888.28</u>									
Top Hill	290°-30'	1008	-	+	2°-45'	48.4	5.0	+43.4	931.7
" "	277°-15'	708	-	+	2°-50'	35.0	5.0	+30.0	918.3
G.E	278°-30'	520	-	+	2°-00'	27.9	5.0	+22.9	911.2
CENTER SWAMP	211°-00'	408	-				9.0		879.2
N+S FENCE LINE	283°-00'	448	-	+	1/2	2.3	0.0	+2.3	90.5
G.E SWP.	224°-30'	194	-				8.7		79.5
1 1/2' DEEP & 2' SIDE DITCH	240°-10'	267	-				10.0		78.3
" " " " "	270°-17'	248	-				10.2		78.1
G.E	9°-20'	175	-				9.2		79.1
G.E	267°-30'	350	-				0.8		87.5
G.E	271°-00'	246	-				8.8		79.5
"	272°-00'	145	-				9.2		79.1
"	325°-10'	646	-				8.8		79.5
"	282°-00'	22	-				8.0		80.3
"	198°-45'	109	-				5.3		83.0
"	351°-00'	700	-				10.7		77.6
"	24°-15'	90	-				6.5		81.8

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OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int. or Angle	Rod Equiv.			
<u>H.I. = 888.28</u>									
EDGE DITCH	25°-30'	457	—				11.1		877.2
" "	40°-30'	349	—				10.6		77.7
G.E.	330°-50'	210	—				9.7		78.6
"	306°-00'	320	—				9.6		78.7
± 1 1/2 DEEP 2' WIDE SIDE DITCH	305°-10'	334	—				11.0		77.3
ANGLE " " " " " "	323°-30'	440	—				11.5		76.8
G.E.	301°-40'	408	—				8.5		79.8
"	316°-30'	472	—				8.9		79.4
"	323°-30'	431	—				9.3		79.0
± 1 1/2 DEEP 3' WIDE SIDE DITCH	339°-00'	372	—				11.9		76.4
" " " " "	2°-15'	348	—				12.2		76.1
" " " " "	29°-00'	390	—				12.3		76.0
G.E. F+V FENCE	304°-50'	630	—	+	0°-21'	4.9	5.0	-0.1	88.2 ✓

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OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle			
H.I. 4.61 G.E.			885.93 886.05 } 886.00					881.39 881.32
HT Δ #7								
Δ #6	322°-00'	904		+	1/2	+4.52	6.52	-2.00 884.05
Δ #8	142°-39'	513					2.30	883.70
CHECK AZI	359°-35'		EAST GABLE HOUSE					
G.E.	349°-00'	64	—			5.9		880.1
"	46°-00'	90	—			6.9		79.1
"	131°-10'	780	—			5.1		80.9
"	127°-00'	830	—			4.4		81.6
Φ DITCH	64°-30'	160	✓			9.9		76.1
EDGE DITCH	62°-30'	153	—			7.7		78.3
" "	64°-15'	165	—			7.6		78.4
G.E.	76°-30'	360	—			7.0		79.0
Φ 1 1/2 X 2' WIDE SIDE DITCH	84°-20'	420	—			7.8		78.2
EDGE SWP + WOODS	122°-40'	890	—			1.9		84.1

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 Date. 10-11-44 Rec.....

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
<u>H.I. = 886.00</u>									
1 1/2' x 2' WIDE SIDE DITCH	85°-40'	530	✓				6.5		879.5
EDGE SWAMP + WOODS	127°-20'	990	✓				2.1		83.9
" " "	111°-40'	788	✓				1.8		84.2
1/2' E+W SIDE DITCH	122°-20'	423	✓				7.1		78.9
TOE SLOPE	87°-00'	630	✓				2.3		83.7
" "	100°-00'	625	✓				3.6		82.4
ANGLE SIDE DITCH	118°-50'	520	✓				6.1		79.9
G.E.	105°-00'	460	✓				6.4		79.6
G.E.	119°-40'	700	✓				4.6		81.4
1/2' SIDE DITCH	123°-50'	609	✓				5.8		80.2
G.E.	123°-30'	609	✓				5.0		81.0
"	84°-50'	734	✓	+	1/2	3.7	2.1	+1.6	87.6
"	131°-40'	500	✓				3.5		82.5
"	97°-00'	755	✓	+	2	15.1	2.3	+12.80	98.8
"	122°-15'	420	✓				5.9		80.2
"	118°-30'	520	✓				5.5		80.5

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OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int.	Rod Equiv.			
				Down-	or Angle				
	H.I. = 886.00								
EDGE DITCH	120°-30'	215	—				7.2		878.8
" "	122°-00'	210	—				8.0		78.0
± "	121°-10'	211	—				9.7		76.3
± SIDE " 3' WIDE X 2'	74°-30'	164	—				9.7		76.3
G.E	112°-45'	630	—				5.0		81.0
N.W. COR Woods	106°-30'	710	—				2.3		83.7
± E+W DITCH	110°-00'	552	—				7.6		78.4
" " "	116°-00'	420	—				7.9		78.1
SIDE	732°-45'	266	—				8.1		77.9
G.E	109°-40'	550	—				5.3		80.7
"	119°-45'	362	—				6.8		79.2
"	148°-50'	176	—				6.7		79.3
"	131°-30'	167	—				6.9		79.1
TOE SLOPE	177°-40'	150	—				5.7		80.3
EDGE DITCH	130°-00'	253	—				7.6		78.4
EDGE DITCH	132°-20'	254	—				7.0		79.0
± "	130°-40'	251	—				9.5		76.5

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OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
	$H.I. = 886.00$								
SIDE HILL	$190^{\circ}-00'$	150		+	$2^{\circ}-00'$	5.1	5.0	+0.1	886.1
" "	$230^{\circ}-00'$	34		+	$2^{\circ}-20'$	1.4	1.0	+0.4	86.4
G.E.	$101^{\circ}-30'$	86					7.1		78.9
TOE SLOPE	$172^{\circ}-20'$	38					5.7		80.3
	$H.I. = 4.35$	$\left. \begin{matrix} 888.05 \\ 888.09 \end{matrix} \right\}$							
			888.07						
AT Δ #8									883.72
Δ #7	$322^{\circ}-39'$	5.15					6.70		883.70
Δ #9	$148^{\circ}-22'$	7.52		+	$\frac{1}{2}$	3.71	3.0	+0.71	881.37
							1		
Edge of Woods	$257^{\circ}-20'$	4.13					6.3		81.8
G.E.	$256^{\circ}-40'$	4.02					7.2		80.9
"	$256^{\circ}-00'$	2.90					7.3		80.8
"	$245^{\circ}-30'$	1.32					7.3		80.8
SW side Ditch 3' W.	$243^{\circ}-30'$	1.06	✓				10.0		78.1
G.E.	$348^{\circ}-50'$	.70					6.8		81.3
Edge Ditch	$231^{\circ}-00'$	64					6.5		81.6

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OBJECT	AZIMUTH	STADIA	DISTANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int.	Rod			
				Down-	or Angle	Equiv.			
	<u>H.I. 888.07</u>								
Edge Ditch	313°-20'	1.07	✓				7.0		881.1
" "	227°-20'	56	✓				9.6		78.5
" "	311°-30'	1.12	✓				10.0		78.1
Edge "	309°-30'	1.20	✓				7.9		80.2
G.E.	195°-00'	1.98					6.8		81.3
" "	295°-50'	1.92					8.5		79.6
" "	288°-30'	2.90					8.2		79.9
✓ SIDE DITCH	226°-20'	3.00					7.7		80.4
G.E.	284°-50'	3.70					6.3		81.8
" "	237°-30'	4.16					6.5		81.6
Edge of Woods	282°-30'	3.90					2.7		85.4
" "	239°-30'	4.50					4.5		83.6
" "	301°-30'	3.74					6.8		81.3
✓ side Ditch 2' W	231°-00'	5.42	✓				7.4		80.7
G.E.	230°-50'	5.42					6.9		81.2
Edge Woods	225°-50'	6.00					4.3		83.8
G.E.	225°-50'	5.70					6.10		82.0

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OBJECT <i>H.I. = 888.07</i>	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
G.E.	308°-45'	3.00					8.8		879.3
Edge Woods	231°-20'	6.20					4.3		83.8
G.E.	231°-30'	5.90					5.9		82.2
Edge Ditch	330°-40'	1.97					8.2		79.9
☿ "	328°-50'	2.08	—				10.9		77.2
G.E.	221°-00'	4.32					6.3		81.8
G.E.	226°-30'	3.85					6.9		81.2
☿ S. Ditch 2' W.	226°-40'	3.86	—				7.7		80.4
G.E.	347°-00'	1.73					8.5		79.6
Toe Knoll	219°-00'	5.07					5.0		83.1
G.E.	220°-10'	5.07					6.2		81.9
☿ Knoll	38°-15'	46					3.4		84.7
Edge Woods	214°-10'	4.26					4.1		84.0
Toe Knoll	215°-30'	4.00					6.2		81.9
Edge Brush	138°-00'	46					5.10		83.0
" Woods	200°-30'	4.13					3.4		84.7
Toe Slope	179°-20'	3.70					6.0		82.1

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OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int.	Rod			
				Down-	or Angle	Equiv.			
Edge Ditch	212°-40'	53					6.8		881.3
" Woods	195°-20'	4.60					3.0		85.1
" Ditch	173°-30'	1.52					7.1		81.0
Toe Slope	192°-45'	4.30					5.3		82.8
G.E.	145°-30'	2.00					6.5		81.6
"	198°-15'	3.50					6.7		81.4
"	192°-50'	3.26					7.0		81.1
"	131°-30'	2.72					6.5		81.6
Edge Ditch	168°-00'	2.65		+	1	2.65	9.20	-6.55	81.5
"	168°-00'	2.60		+	1	2.6	10.8	-8.2	79.9
G.E.	130°-00'	4.86					6.3		81.8
Top Slope	129°-00'	6.00		+	$\frac{1}{2}$	3.0	6.2	-3.2	84.9
"	138°-30'	5.88		+	$\frac{1}{2}$	2.94	7.6	-4.66	83.4
Toe "	128°-15'	5.83					5.0		83.1
Edge Woods	138°-30'	6.05					2.8		85.3
G.E.	139°-30'	4.94					6.2		81.9
Edge Woods	146°-20'	6.30		+	$\frac{1}{2}$	3.15	4.70	-1.55	86.6

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OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
Toe slope	147°-30'	6.15		+	$\frac{1}{2}$	3.07	7.00	-3.93	884.2
G.E	147°-00'	5.32					5.5		82.6
"	146°-15'	4.72					6.2		81.9
"	137°-00'	4.15					6.4		81.7
"	149°-00'	3.73					6.3		81.8
"	157°-00	3.86					6.2		81.9
Edge Ditch	163°-10'	3.84		+	1	3.84	9.80	-5.96	82.1
£	163°-40'	3.84	✓	+	1	3.84	10.70	-6.86	81.4
G.E	151°-50'	2.87					6.5		81.6
$\begin{array}{r} 893.23 \\ 893.25 \end{array} \quad 893.24$									
$\begin{array}{r} 888.79 \\ 888.78 \end{array}$									
A+ Δ # 9									
Δ # 8	328°-22'	7.52					9.53		883.72
CHECK AZI.	326°-17'								
									£ chimney
Δ # 10	162°-58'	5.70		+	$\frac{1}{2}$	2.85	3.29	-0.44	892.80
Edge Woods	279°-15'	6.02					9.3		883.9
Toe slope	279°-15'	5.88					11.2		82.0

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OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int.	Rod			
				Down-	or Angle	Equiv.			
Edge Pot hole	281°-20'	5.20					11.5		881.7
G.E	288°-15'	4.33					11.4		81.8
Edge Pot hole	294°-00'	3.72					11.2		82.0
G.E	302°-50'	3.40					11.2		82.0
Edge Ditch	301°-40'	2.22					9.6		83.6
£ "	302°-40'	2.23					10.7		82.5
Edge "	303°-50'	2.20					9.5		83.7
£ "	303°-10'	3.52					11.9		81.3
G.E	309°-40'	3.16					11.0		82.2
Edge Ditch	318°-10'	4.77					11.7		81.5
£ "	317°-30'	4.90			$\frac{1}{2}$	2.45	10.3		80.5
Edge "	316°-40'	4.92					11.0		82.2
Fence Corner E. W. & S	41°-30'	.43					1.3		91.9
Fence line E & W.	333°-30'	.35					6.5		86.7
" " & Edge Ditch	288°-00'	1.14					9.1		84.1
" " £ "	287°-00'	1.22					10.2		83.0
" " " "	286°-20'	1.27					8.7		84.5

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OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
Fence Line E & W	280°-30'	2.00	—				10.00		853.2
G.E	319°-00'	2.73					10.9		82.3
Fence Line E & W	276°-50'	3.33	—				10.8		82.4
£ Ditch	294°-00'	2.66	—				11.2		82.0
Fence Line E & W	275°-30'	4.40	—				10.3		82.9
G.E	295°-00'	2.71					10.1		83.1
"	286°-15'	3.30					11.2		82.0
Fence Line E & W.	274°-30'	5.66	—				11.3		81.9
G.E	283°-30'	3.93					11.0		82.2
E & W Fence Edge Woods	274°-20'	6.10	—				7.3		85.9
Fence Corner E. W. & S.	274°-00'	6.60	—				4.3		88.9
G.E	278°-30'	5.20					11.7		81.5
N & S Fence	268°-00'	6.60	—	+	1/2	3.3	6.7	-3.4	89.8
G.E	271°-00'	4.87					9.0		84.2
Top slope	262°-30'	5.27		+	1/2	2.63	0.0	+2.63	95.9
£ Ravine	260°-45'	3.60					9.3		83.9
Toe slope	257°-10'	5.10		+	1	5.1	2.0	+3.1	96.3

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OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int.	Rod Equiv.			
<u>893.24</u>									
☿ Ravine	252°-15'	3.66					5.7		887.5
G.E.	250°-00'	4.30		+	1	4.3	0.2	+4.1	97.3
☿ Ravine	243°-45'	3.74		+	3	11.22	8.5	+2.7	95.9
Top Knoll	238°-10'	2.60		+	2°-50'	12.8	5.0	+7.8	901.0
G.E.	262°-10'	2.55					9.0		884.2
☿ Ridge	249°-10'	2.32					0.4		92.8
G.E.	262°-10'	1.70					8.6		84.6
☿ Ravine	232°-10'	1.32					5.5		87.7
Edge Ditch	231°-50'	.70					8.2		85.0
☿ "	231°-45'	.67	—				10.2		83.0
Edge "	232°-10'	.46	.				6.2		87.0
☿ Ravine	204°-10'	1.70		+	1	1.7	2.1	-0.4	92.8
☿ old Ditch	205°-10'	.40	—				9.0		84.2
Edge "	178°-40'	1.26					3.3		89.9
G.E.	182°-40'	.30					5.5		87.7
☿ Ditch	173°-30'	1.16	—				9.7		83.5
N+S Fence	133°-00'	.37	—				1.9		91.3

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OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int. Down- or Angle	Rod Equiv.			
N.S. Fence Edge Ditch	167°-30'	1.25	-				5.9		887.3
Edge Woods S. End	333°-00'	1.17					8.5		84.7
G.E	155°-15'	1.29					2.9		90.3
Edge Ditch	161°-00'	2.20					4.5		88.7
⊥ "	163°-15'	2.23	-	-	1/2	1.11	8.5	-9.6	83.6
Edge "	167°-10'	2.20					2.6		90.6
G.E	174°-45'	2.20		+	1°-35'	6.1	5.0	+1.1	94.3
⊥ Ditch	165°-40'	3.06	-				9.2		84.0
Edge "	166°-30'	3.06					5.4		87.8
" "	168°-10'	3.07		-	1/2	1.53	1.2	-2.7	90.5
G.E	157°-10'	3.10		+	1	3.10	1.5	+1.6	94.8
⊥ Ditch	166°-10'	4.00	-				8.2		85.0
H.I. = 4.22									
897.02 896.96 } 896.99									
892.77 892.80									
AT Δ # 16									
Δ # 9	342°-58'	5.70		-	1/2	2.85	5.32	8.17	888.79

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OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int. or Angle	Rod Equiv.			
Edge Ditch	332°-15'	1.82					6.6		890.4
N & S Fence	318°-20'	2.06	✓	+	1	2.06	0.2	+2.04	99.0
Edge Ditch	339°-30'	1.73					7.6		89.4
£ "	326°-00'	1.22	✓				11.5		85.5
G. E.	348°-00'	1.70					3.0		94.0
Edge Ditch	321°-00'	1.25					6.0		91.0
Top hill	24°-20'	2.12		+	4°-30'	16.6	5.0	+11.6	908.6
N & S Fence	288°-20'	1.32	✓	+	7°-12'	16.5	5.0	+11.5	908.5
Top hill	73°-10'	2.27		+	4°-47'	18.8	5.0	+13.8	910.8
G. E.	70°-00'	1.30		+	2°-45'	6.2	5.0	+1.2	898.2
Edge Ditch	65°-00'	63					5.0		92.0
£ "	71°-40'	52	✓				10.8		86.2
Edge "	335°-00'	1.20					4.8		92.2
" "	82°-30'	47					6.2		90.8

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 Date 10-17-44 Rec.....

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
H.I = 4.28 AT Δ #10		897.05							892.77
Δ #9	342°-58'	5.70							
Δ #11	122°-22'	4.94		+	2	9.98	6.33	+3.65	900.70
G.E.	143°-00'	23					4.2		92.8
E+V Fence Line	227°-30'	1.32	-	+	12°-30'	28.5	5.0	+23.5	920.5
" " "	163°-00'	93	-	+	11°-05'	17.9	5.0	+12.9	909.9
G.E.	126°-45'	92		+	4°-15'	6.8	5.0	+1.8	898.8
Φ Ditch	114°-50'	2.35	-				9.7		87.1
Edge "	109°-00'	.93					2.6		94.4
" " "	119°-45'	2.31		+	1	2.31	3.5	-1.2	95.8
Φ "	102°-40'	1.03	-				10.5		86.5
Edge "	111°-50'	2.60					1.2		95.8
" "	93°-20'	1.10					4.1		92.9
" "	105°-40'	1.70					4.5		92.5
Φ "	110°-15'	1.67	-				9.7		87.3

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OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int.	Rod			
Ditch	118°-00'	3.12	—				8.80		888.2
Edge "	115°-15'	1.54					2.3		94.7
H.I. = 4.48	905.10 905.02	} 905.10							900.62
At Δ # 11									900.70
Δ # 10	302°-22'	4.94		- 1/2		-2.47	-9.78	-12.25	892.77
Δ # 12	163°-15'	6.54					10.73		894.37
Δ # 11 A & Co. Rd. E "	138°-33'	2.10		+ 1/2		3.15	3.08	+ .07	905.17
Ex W Fence Line	347°-50'	1.75	—	+ 2°-30'		7.6	5.0	+2.6	07.7
Edge Ditch	319°-30'	1.54					6.7		898.4
" "	305°-00'	1.45					9.9		95.2
" "	304°-45'	2.00					9.5		95.6
G.E	298°-00'	2.06					6.7		98.4
Edge Ditch	308°-30'	.85					7.5		97.6
G.E	290°-30'	2.20		+ 1		2.20	1.10	+1.1	906.2
"	339°-10'	.68					5.5		899.6
Ditch	310°-10'	1.28	—	- 2°-45'		6.1	10.0	-76.1	89.0
Ravine	37°-40'	1.16		+ 2°-25'		4.9	5.0	-0.1	905.0

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 Date 10-17-44 Rec.....

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int. or Angle	Rod Equiv.			
Edge Ditch	294°-10'	1.08					7.10		898.0
G.E.	287°-20'	1.34					5.6		99.5
Top Hill	94°-00'	70		+	5°-20'	6.5	5.0	+1.5	906.6
G.E.	268°-20'	1.56		+	2°-25'	6.6	5.0	+1.6	06.7
Edge Ditch	259°-00'	.49					9.2		895.9
G.E.	268°-00'	1.15					5.6		99.5
Edge Ditch	260°-45'	70	✓	-	4°-30'	5.5	10.0	-15.5	89.6
Edge "	264°-00'	88					10.0		95.1
" "	212°-10'	.88					10.3		94.8
Edge "	220°-20'	1.00	✓	-	2°-55'	5.1	10.0	-15.1	90.0
Edge "	223°-10'	1.07					11.7		93.4
+ toe slope.	197°-20'	1.31					9.9		95.2
G.E.	239°-00'	1.45					8.0		97.1
Toe Road	176°-20'	1.35					6.8		98.3
G.E.	256°-00'	1.91					1.0		904.1
Toe Road	153°-15'	1.54					4.8		100.3
Flow Line 30' C.M.	205°-30'	1.30	✓				15.25		889.85

Page 63 Transit Obs. Line Ditch 2
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OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
± Co. Rd E 21' W	172°-15'	1.54	—				2.2		902.9
Edge Ditch Toe Rd.	209°-40'	1.43					11.7		893.4
± Road Co. Rd. E	198°-00'	1.60	—				2.10		903.0
Toe "	224°-00'	1.78					8.9		896.2
± " Co. Rd E	239°-30'	2.91	—	+	1½	4.36	0.5	+3.9	909.0
Toe "	235°-00'	2.24					4.6		00.5
G. E.	240°-10'	2.14					4.2		00.9
Top Hill	254°-30'	3.38		+	4°-00'	23.6	5.0	+18.6	23.7
" "	239°-30'	3.80		+	3°-50'	25.3	5.0	+20.3	25.4
G. E.	231°-45'	3.10		+	2°-30'	13.5	5.0	+8.5	13.6
✓ S ¼ COR. SEC. 29	123°-51'	8.92							
H I. = 4.26	898.63 898.65	} 898.65							
AT Δ # 12 .5' to G. E.									894.39
Δ # 11	343°-15'	6.54		+	1½	-9.81	7.85	+1.96	900.62
Δ # 13	128°-08'	4.25		+	½	2.13	1.55	+ .58	899.23
Check AZI.	315°-28'		P. Pole						

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OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
Flow Line 36" C.M.	334°-10'	4.88	—				8.58		890.07
Edge Ditch	334°-00'	4.90					5.30		93.3
Toe Rd.	335°-20'	4.90					4.9		93.7
℄ No 8 24' Face 40' Top	25°-40'	2.90	—	+	1°-55'	9.7	5.0	+4.7	903.3
Toe Rd.	22°-00'	2.22		+	$\frac{1}{2}$	1.11	2.10	-1.0	897.6
" "	332°-30'	5.00					3.60		95.0
℄ No 8	53°-20'	1.65	—	+	1	1.65	2.00	-0.4	98.2
Toe slope	54°-50'	1.20					3.2		95.4
" Rd.	324°-40'	5.54		+	$\frac{1}{2}$	2.77	2.3	+0.5	99.1
℄ No. 8	113°-20'	2.00	—				3.9		94.7
Toe slope	121°-10'	1.73					5.6		93.0
" Rd.	320°-00'	5.98		+	$1\frac{1}{2}$	8.97	4.2	+4.8	913.4
" R.R. Fill	135°-20'	2.12	—				3.0		895.6
Top Hill	308°-15'	5.30		+	3°-05'	28.5	5.0	+23.5	922.1
G. E	315°-15'	4.65		+	1°-45'	13.9	5.0	+8.9	907.5
℄ Ditch	144°-20'	2.09	—	-	1	2.1	5.30	-7.4	91.2
Flow Line 42" Cast iron	144°-20'	2.10	—	-	1	2.1	5.9	-8.0	90.6

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 Date. 10-17-44 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int.	Rod Equiv.			
G.E	324°-15'	3.90		+	$\frac{1}{2}$	2.85	3.4	-0.6	898.0
Edge Ditch.	140°-00'	1.76					5.4		93.2
" "	138°-30'	1.68					4.3		94.3
int. of side Ditch.	140°-40'	1.70	-				7.1		91.5
G.E	332°-40'	3.52					4.8		93.8
Edge Ditch	110°-40'	.64					5.5		93.1
⊥ "	114°-00'	.60	-				7.6		91.0
" "	340°-30	3.32	-				8.2		90.4
Edge "	339°-15'	3.30					5.8		92.8
" "	342°-50'	2.33					5.8		92.8
⊥ "	344°-00'	2.36	-				7.8		90.8
Edge "	117°-10'	.60					6.4		92.2
G.E	329°-10'	2.20					5.6		93.0
"	96°-00'	91					5.6		93.0
"	315°-00'	2.50		+	$\frac{1}{2}$	1.25	2.4	-1.2	97.4
Edge Ditch	13°-00'	.75					5.3		93.3
⊥ "	11°-30'	.70	-				7.4		91.2

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 Date 10-17-44 Rec.....

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.		
Eq W Fence Line	302°-30'	2.67		+	2°-55'	13.5	5.0	+8.5 907.1
G.E.	32°-40'	1.01					4.7	893.9
Fence Cor. S.W.	31°-45'	1.58					1.8	96.8
Top Hill	263°-00'	2.82		+	7°-00'	34.4	5.0	+29.4 928.0
G.E.	262°-00'	1.68		+	4°-00'	11.7	5.0	+6.7 05.3
"	262°-45'	.92		+	3°-15'	5.2	5.0	+0.2 898.8
"	311°-30'	44					4.7	93.9
Edge Ditch	17°-30'	50					5.0	93.6
" "	346°-20'	2.10					5.8	92.8
" "	341°-40'	3.20					5.5	93.1
" "	337°-30'	4.20					5.1	93.5
G.E.	1°-00'	2.20					5.10	93.5
"	113°-00'	2.47					3.2	95.4
E Co. Rd. E	6°-40'	4.72	✓	+	2	9.44	1.9	+7.5 906.1
Toe Rd.	22°-10'	2.21		+	$\frac{1}{2}$	1.10	1.9	-0.8 897.8
G.E.	11°-20'	3.12		+	1	3.12	3.10	0.0 98.6
Toe slope.	30°-00'	4.50		+	$1\frac{1}{2}$	6.75	1.7	+5.0 903.6

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OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
G.E.	4°-10'	3.00					3.8		894.8
Toe slope.	343°-45'	4.69		+	$\frac{1}{2}$	2.34	3.2	-0.9	97.7
G.E.	353°-00'	3.00					5.2		93.4
"	350°-30'	3.90					2.6		96.0
"	7°-10'	3.90		+	$1\frac{1}{2}$	5.85	2.5	+3.3	901.9
"	359°-20'	3.86		+	1	3.86	3.8	+0.1	898.7
Flow Line 24" vit.	114°-10'	2.35	—				7.6		91.0
" " "	124°-30'	2.00	—				8.10		90.5
℄ R.R. Track - 2 TRACKS	111°-40'	3.11	—	+	3°-30'	19.0	5.0	+14.0	912.6
Edge Ditch	143°-00'	1.54					4.4		894.2
G.E.	157°-30'	1.41					5.2		93.4
℄ R.R. Track.	173°-10'	2.88	—	+	3°-35'	18.0	5.0	+13.0	911.6
Toe R.R. Fill	175°-40'	2.48		+	1	2.48	1.0	+1.5	900.1
G.E.	216°-50'	1.90		+	3°-20'	11.0	5.0	+6.0	904.6
Toe R.R. Fill ?	188°-20'	3.76		+	2°-35'	16.9	5.0	+11.9	10.5
Top Hill	223°-40'	2.57		+	6°-40'	29.8	5.0	+24.8	23.4
G.E. Top Hill	204°-40'	3.55		+	4°-25'	27.3	5.0	+22.3	20.9

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OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle			
Toe R.R. Fill	159°-20'	2.18				2.6		896.00
28' WIDE. 37.5' SPAN								
⊥ No. 8 Under Trestle	127°-20'	2.67				4.20		94.4
H.I. = 4.30	713.53	902.49						
								903.51
A+ Δ # 13								899.21
Δ # 12	308°-08'	4.25				9.10		894.39
Δ # 14	151°-50'	4.73		+ 1 1/2	7.12	4.36	+2.76	906.27
Toe R.R. Fill	317°-00'	1.10				6.8		896.7
" "	3°-30'	1.30		+ 1	1.30	4.8	-3.5	900.0
Top Hill	29°-30'	1.60		+ 3°-40'	10.2	5.0	+5.2	08.7
G.E	10°-30'	1.00		+ 3°-30'	6.1	5.0	+1.1	04.6
Flow Line 42" cast iron cul.	276°-30'	1.60				13.15		890.36
G.E	300°-00'	.65				9.0		94.5
Toe Fill R.R. & Edge Ditch.	274°-40'	1.70				7.4		96.1
⊥ Ditch 2' W.	274°-30'	.64				10.3		93.2
Toe Fill & Edge Ditch.	277°-20'	1.53				8.0		95.5
⊥ 2' Ditch	199°-30'	.74				10.5		93.0

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 Date 10-18-44 Rec.

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int. or Angle	Rod Equiv.			
± M. Ditch	275°-20'	1.27	-				11.7		891.8
M.I. = 4.45		903.66							
At Δ # 13									899.21
Δ # 14	151°-50'								
± M. Ditch	243°-20'	1.16	-				11.9		891.8
" 3' W S. Ditch	189°-30'	.98	-				10.6		93.1
" M. Ditch	212°-00'	1.49	-				11.6		92.1
Edge Ditch	186°-20'	.94					8.6		95.1
± M. "	196°-00'	2.00	-				11.3		92.4
Edge " "	195°-30'	1.98					10.0		93.7
G.E.	151°-00'	.91					2.8		900.9
Top Hill	124°-10'	1.60		+	4°-27'	12.4	5.0	+7.4	11.1
FlowLine 36" Conc Culv	187°-00'	2.55	-				12.20		891.46
Edge Ditch	186°-50'	2.52					9.2		94.5
G.E.	140°-15'	1.73		+	2°-35'	7.8	5.0	+2.8	906.5
± No. 8	180°-10'	2.43	-				3.4		00.3

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OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int. Down- or Angle	Rod Equiv.			
G.E.	150°-45'	1.60					2.7		901.00
Flow Line 36" conc. culv.	172°-20'	2.32	-				11.75		891.91
Edge Ditch	176°-00'	1.54					8.8		94.9
" "	173°-50'	2.30					8.7		95.0
G.E.	163°-15'	2.02					7.5		96.2
Edge M. Ditch	171°-20'	1.11					7.7		96.0
Toe R.R. Fill	264°-00'	2.40					3.9		99.8
Side Ditch	173°-15'	2.15	-				11.0		92.7
Toe R.R. Fill	257°-30'	3.12		+	2°-28'	13.4	10.0	+3.4	907.1
G.E.	150°-30'	2.32		+	1/2	1.16	1.4	-0.2	03.5
"	243°-00'	3.52		+	2°-55'	17.9	5.0	+12.9	16.6
"	243°-00'	2.72		+	1	2.72	0.9	+1.8	05.5
"	243°-00'	1.98					6.4		897.3
Edge Ditch	167°-00'	2.54					7.8		95.9
" "	244°-00'	1.22					10.2		93.5
Edge M. "	168°-50'	2.60	-				11.2		92.5
Edge "	273°-15'	1.30					9.6		94.1

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OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int. Down- or Angle	Rod Equiv.			
Edge Ditch	170°-00'	2.63					8.7		895.00.
G.E	276°-20'	1.34					7.4		96.3
Edge Ditch	166°-50'	3.01					6.8		96.9.
± M "	165°-15'	3.00	—				11.2		92.5
Edge "	205°-00'	1.71					9.4		94.3
" "	163°-15'	2.94					5.6		98.1
G.E	215°-30'	2.20		—	1°-10'	4.5	3.0	-7.5	96.2.
"	156°-00'	3.00					2.8		900.9
"	200°-00'	2.86					6.2		897.5
Edge Ditch	188°-30'	2.60					8.6		95.1.
" "	203°-00'	1.66					9.4		94.3
" "	242°-40'	1.12					9.2		94.5
" "	179°-20'	1.70					6.9		96.8
± No. 8	239°-00'	83	—				8.1		95.6
Edge Ditch	191°-20'	1.03					7.9		95.8
G.E	207°-30'	3.57		+	1	3.57	0.8	+2.8	906.5
Edge Ditch	264°-00'	52					8.9		894.8.

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OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
♂ Ravine	187°-30'	4.28		+	1	4.28	1.6	+2.7	906.4
Toe Rd.	169°-00'	2.95					6.9		896.8
Top Hill	177°-00'	4.60		+	2°-05'	17.0	5.0	+12.0	915.7
Toe Rd.	167°-00'	3.52					6.5		897.2
G.E.	179°-20'	3.90					0.0		903.7
Toe Rd.	166°-30'	4.28					2.6		01.1
" "	177°-20'	3.70					2.9		00.8
H.I = 4.41	910.682 910.633	910.66							
A + Δ # 14 ♂ Rd 13' West									906.25
Δ # 13	331°-50'	4.73					11.42		899.21
Δ # 15	126°-45'	3.48		-	1/2	1.74	11.20	-12.94	897.72
S 1/4 Cor. Section 29	0°-02'	8.10							
Top Hill	348°-10'	2.14		+	2°-10'	8.1	5.0	+3.1	913.8
♂ Rd	359°-00'	4.40		+	1	4.40	1.6	+2.8	13.5
Toe Rd	336°-00'	1.09					7.8		02.9
Edge Ditch	305°-20'	.90					12.0		898.7

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OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
± Ditch	300°-00'	95	-	-	4°-47'	7.9	12.0	-19.9	890.8
Edge Ditch	295°-20'	99	-	-	1/2	0.5	12.20	-12.7	98.0
Flow Line 36" C.M. Culv.	296°-00'	46	-	-	6°-55'	5.53	13.0	-18.53	92.13
± Rd. 36' W	184°-30'	1.94	-				4.5		906.2
Toe Rd. "	269°-30'	40					10.7		900.0
G.E.	261°-30'	.85					9.5		01.2
Toe Rd.	191°-00'	1.93					9.2		01.5
G.E. Toe Rd.	200°-00'	2.08					5.5		05.2
" "	227°-00'	1.30					5.5		05.2
± No. 8	209°-20'	2.20	-				1.0		09.7
G.E.	214°-45'	1.22					6.9		03.8
Toe Rd.	214°-20'	2.34					3.2		07.5
" "	203°-00'	1.11					7.8		02.9
G.E.	224°-00'	2.30		+	1	2.30	0.30	+2.	912.7
Toe Rd.	256°-00'	1.80					7.1		03.6
± No. 8	256°-30'	1.54	-				4.30		06.4
Toe Rd.	2°-40'	93					5.8		04.9

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OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int. or Angle	Rod Equiv.			
Toe Rd	176°-45'	1.87					8.0		902.7
G.E.	23°-30'	.92					2.9		07.8
"	26°-50'	.70					9.3		01.4
Toe Rd	167°-10'	.80					9.8		00.9
G.E.	46°-10'	1.11					2.5		08.2
"	65°-30'	.92					10.9		899.8
Edge Woods	154°-50'	2.00					7.5		903.2
G.E.	142°-20'	.86					10.5		00.2
H.I. = 4.53	$\left. \begin{array}{l} 902.25 \\ 902.18 \end{array} \right\} 902.22$								
A + A # 15 .50 to G.E.									897.72
Δ # 14	306°-45'	3.48		+ 1½	5.22	1.15	-4.07		906.25
Check Azi	22°-19'	Edge chimney							
Flow Line 36" C.M. culv.	310°-30'	3.32	-				11.0		891.2
Edge Ditch	310°-00'	3.20					4.4		97.8
" "	311°-30'	3.33					5.8		96.4
✓ " "	311°-40'	3.18	✓				9.6		92.6
" "	318°-30'	2.52	-				9.7		92.5

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OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int. Down- or Angle	Rod Equiv.			
Edge Ditch	316°-10'	2.49					4.7		897.5
" "	319°-50'	2.56					5.5		96.7
G. E	307°-00'	2.13					4.8		97.4
"	330°-45'	2.89					3.0		99.2
"	296°-40'	1.17					4.1		98.1
"	340°-30'	3.25		+	1°-55'	10.8	5.0	+5.8	908.0
"	341°-40'	2.90					2.8		899.4
"	279°-30'	.66					3.3		98.9
"	15°-00'	3.40		+	1½	5.10	1.0	+4.1	906.3
"	337°-30'	.70					6.5		895.7
"	13°-00'	2.60					2.2		900.0
Edge Ditch	346°-30'	1.07					6.2		896.0
G. E.	5°-50'	1.90					5.3		96.9
£ Ditch	350°-40'	1.09					9.4		92.8
Edge "	353°-00'	1.14					7.3		94.9
" "	337°-15'	1.50					4.5		97.7
£ "	340°-30'	1.67					9.7		92.5

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OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int.	Rod			
				Down-	or Angle	Equiv.			
Edge Ditch	341°-20'	1.70					6.6		895.6
" "	88°-30'	.56					6.0		96.2
± "	84°-20'	.64	-				9.9		92.3
G.E.	24°-00'	1.08					8.0		94.2
Edge Ditch	22°-00'	70					6.8		95.4
± "	19°-30'	66	-				9.6		92.6
Edge "	17°-30'	53					5.6		96.6
" "	65°-15'	64					5.8		96.4
G.E.	56°-00'	174					4.6		97.6
"	208°-20'	1.17					4.3		97.9
"	211°-40'	1.64					1.8		900.4
"	53°-00'	2.60					5.5		896.7
"	195°-00'	1.72					3.0		99.2
"	52°-00'	3.23					2.9		99.3
"	183°-00'	2.12					3.6		98.6
Top Hill	49°-40'	4.85		+	1°-25'	12.0	5.0	+7.0	909.2
No. Edge Woods.	168°-15'	2.22					3.9		898.3

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OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int.	Rod			
G.E	162°-30'	2.77		Down-	or Angle	Equiv.	6.4		895.8
"	64°-00'	3.82					3.3		98.9
"	154°-30'	2.53					8.5		93.7
"	72°-45'	3.46					6.8		95.4
"	82°-00'	3.25					8.1		94.1
Shore Line Jones Lake	150°-00'	2.90	—				8.9		93.3
G.E	83°-15'	4.30					7.7		94.5
"	145°-00'	2.06					8.1		94.1
"	74°-30'	4.90					3.7		98.5
Edge Ditch	120°-40'	1.34					6.0		96.2
G.E	71°-15'	5.10		+	½	2.5	1.1	+1.4	903.6
"	63°-45'	2.36					6.8		895.4
Edge Ditch	117°-30'	1.36	—				9.4		92.8
G.E	79°-00'	2.72					8.4		93.8
Edge Ditch	111°-50'	1.30					5.9		96.3
G.E	92°-30'	1.87					7.0		95.2
Edge Ditch	103°-30'	1.04					7.8		94.4

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OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
G.E.	$102^{\circ}-00'$	2.42					8.3		893.9
"	$90^{\circ}-20'$	1.13					8.2		94.0
"	$80^{\circ}-30'$	1.76					5.3		96.9
✓ Ditch	$101^{\circ}-30'$	.88	-				10.1		92.1
G.E.	$74^{\circ}-20'$	1.60					6.9		95.3
Edge Ditch	$108^{\circ}-15'$	.85					7.4		94.8
Shore Line Jones Lake ^{Water Surface}	$125^{\circ}-10'$	2.30	-				8.80		93.42
Edge Ditch	$128^{\circ}-30'$	2.00					8.0		94.2
" "	$123^{\circ}-30'$	2.10					8.0		94.2
✓ "	$126^{\circ}-50'$	2.00	-				9.4		92.8
G.E.	$152^{\circ}-45'$	1.82					6.3		95.9
"	$133^{\circ}-45'$	1.08					7.6		94.6
"	$157^{\circ}-20'$	1.48					6.9		95.3
"	$136^{\circ}-20'$	1.34					6.6		95.6
"	$161^{\circ}-40'$	1.08					6.4		95.8
"	$136^{\circ}-00'$	56					6.2		96.0
"	$180^{\circ}-00'$	81					5.7		96.5

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OBJECT	STATION AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.		
LONG LAKE								864.70
SHORE LINE	0+00							64.0
☿ DITCH	2+26							64.5
"	3+62							63.9
"	5+33							64.7
"	6+00							64.9
36" C. M. GULV.	+42							64.5
☿ LONG L. RD. 38' WIDE	+66							75.5
"	+92							64.7
☿ DITCH	7+55							65.1
"	8+38							65.1
"	9+90							65.4
"	10+55							65.8
"	11+85							65.7
"	13+23							65.5
"	14+07							65.7
"	15+10							65.5
"	+28							66.3
"	+37							66.0

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OBJECT	STA. AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle			
SHORE LINE-PIKE L.	15+60						W.S.	866.53
" " " "	31+30						"	"
± DITCH	+40							65.9
"	32+50							67.1
"	33+60							67.6
"	35+40							67.8
"	36+80							68.4
"	37+88							69.1
"	39+80							70.1
"	40+88							70.3
"	42+00							71.1
"	+92							71.3
"	44+60							72.3
30" C.M. CULV.	+80							71.1
± CEMETERY RD. - 30' WIDE	45+16							81.5
"	45+45							71.9
± DITCH	46+60							73.0
"	47+75							72.7

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OBJECT	STA. AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
E DITCH	48+85								73.2
"	50+25								73.5
"	52+80								74.4
"	54+38								74.7
"	55+06								75.0
"	57+50								75.0
"	59+45								75.7
"	60+88								76.1
"	62+70								76.3
"	63+23								76.5
"	65+00								77.2
"	66+15								78.5
"	68+50								79.9
"	+80								80.5
"	69+80								81.4
"	70+60								81.3
"	71+60								82.0

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OBJECT	STA. AMMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
E DITCH	72+15								82.5
"	73+25								83.0
"	74+28								83.0
"	75+28								83.5
"	76+40								83.6
"	77+20								84.0
"	78+15								85.0
"	+70								85.5
"	80+15								86.2
"	+80								86.5
"	81+45								87.3
"	82+12								87.1
"	+90								88.2
"	83+45								89.0
"	84+40								89.6
36" C. M. CULV.	85+50								89.85
E. Co. RD. "E" 21" WIDE	85+92								903.0
"	86+26								90.07

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OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int. Down- or Angle	Rod Equiv.		
± DITCH	87+90							90.4
"	88+90							90.8
"	90+65							91.2
"	91+65							91.0
"	92+80							91.5
"	93+28							91.2
42" CAST IRON CULV.	93+28							90.6
± SPOOL LINE - 2 TRACKS	93+68							912.0
"	94+14							90.4
± DITCH	+45							91.8
"	95+17							91.8
"	+90							92.1
"	96+65							92.4
36" CONC. CULV.	97+30							91.46
± S.T.H. #8 - 40' WIDE	97+60							900.00
"	+96							91.91
± DITCH	98+30							92.5
"	+70							92.5
"	99+70							90.8

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OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.		
36" C.M. CULV.	100+20							892.13
E LONG L. RD. 36" WIDE	+46							906.00
" " "	+90							91.2
E DITCH	1+75							92.5
"	2+94							92.5
"	3+55							92.8
"	4+15							92.6
"	+84							92.3
"	5+15							92.1
"	+70							92.8
"	6+40							92.8
SHORE-JONES L.	106+75					W.S.		93.4