

Ground Survey (See page 29)

Station	Dist	Bearing	Sin	N	T	S	Lat (Assumed)	Dist (Sin)	D.M.R.	Alt. (P.M.D.) (Exp.)
7574	750.0	N 40-46 E	.6530	508.1			490.0	490.0	490.0	278,369
7218	748.0	N 43-48 E	.6921	559.9			518.0	519.7	1498.0	809,770
7264	875.0	N 70-57 E	.9452	866.0			770.0	790.3	2786.0	741,236
7626	1710.0	S 15-30 E	.2672		1697.7		457.0	456.9	4014.2	6,614,177
7890	2195.0	S 53-55 W	.8082		1272.8		1773.0	1774.0	2698.2	3,488,232
7565	1031.0	N 16-58 W	.2918	986.2			300.6	300.8	0246.0	615,980
7630	605.0	N 15-38 W	.2695	580.5			167.0	162.5	102.0	74,009
				2940.5	2940.5		2235.6	2234.6		2,538,264
				580.7			225.6	225.3		10,102,430

INDEXED ON MAP

655

The distance from a point on the tangent to the curve is very nearly the square of the length divided by twice the radius.

Given tangent (or external)  $T$  by dividing tangent (or external)  $T$  by Degree of curve with a given  $L$  may be found and correction found in column of corrections.

To find Tangent and External for curve of any other degree, divide by degree of curve and add correction found in column of corrections.

TABLE No. 9.

# IMPROVED TABLES AND INFORMATION

left column and top row. The number in body of table in same row and column as the level estimate the difference in elevation between the side state and the lower target by this amount if cut, elevate if fill. Add this amount to cut and subtract from fill. Set up rod at the point and the level should cut target. If it does not make the slight adjustment necessary.

TABLE No. 1.

Distance of slope stake from side or center stake for any width roadway, slope 1 to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in the table. The number in the right column and top row is the number in body of table in same row and column as the level estimate the difference in elevation between the side state and the lower target by this amount if cut, elevate if fill. Add this amount to cut and subtract from fill. Set up rod at the point and the level should cut target. If it does not make the slight adjustment necessary.

DIRECTIONS FOR USE

10, 102,430  
2, 538,264  
7, 564,066  
3, 982,032  
86,8235  
86.82

Smith - Lieb Survey  
 Monroe Twp. V.M.S. 4493

- A - Apparent  $\angle$  of Roads.
- B - Apparent  $\angle$  of Roads.
- C - Post
- D - Post
- E - Stake Line CD Produced.
- F - Stake
- G - Stake and large Post Duckworth Corner.

See Page 29  
 for Water Survey

See Drawer R

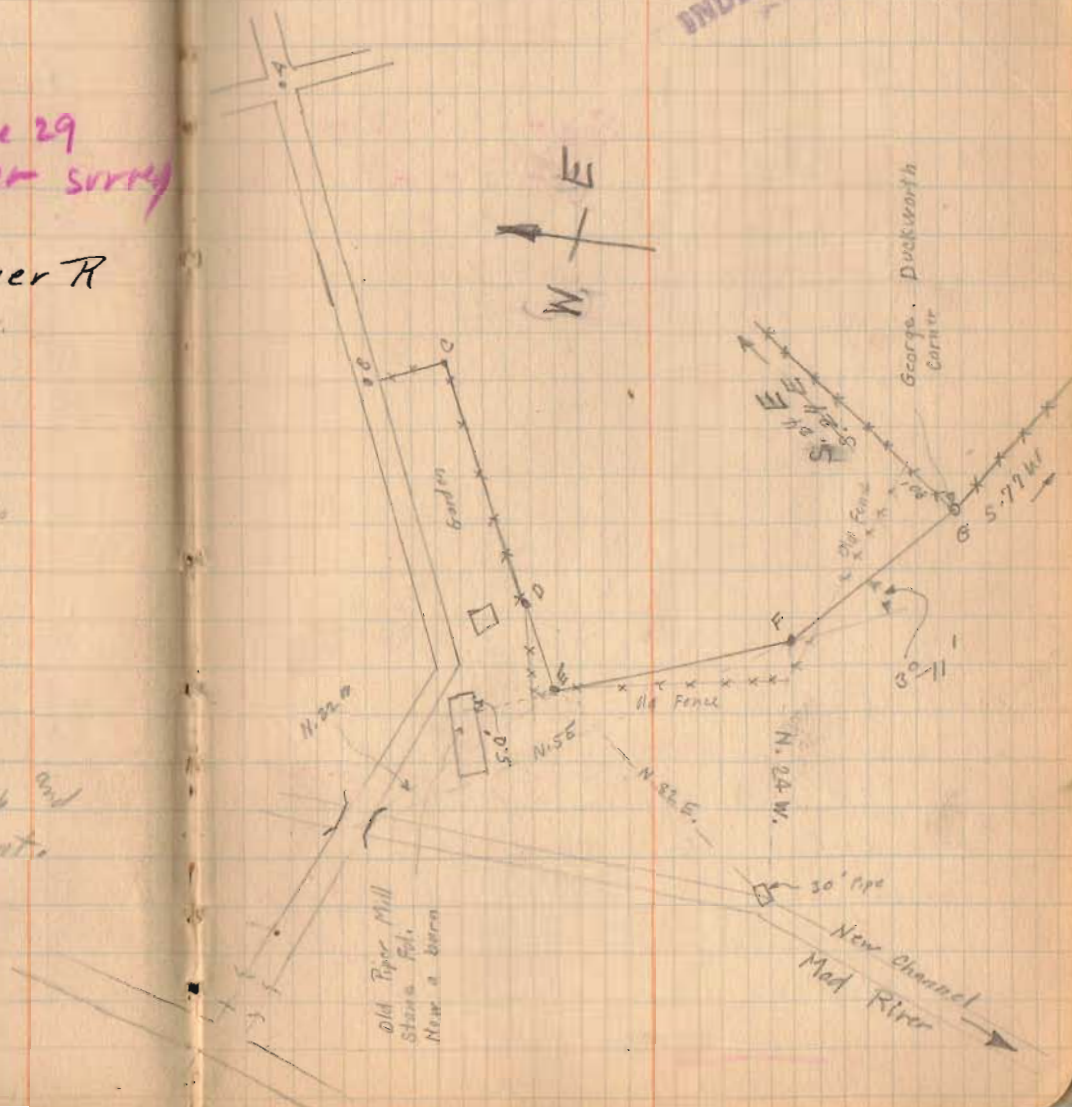
AB	S 72 <sup>W</sup>	547'	33 1/2 Poles
BC	N 12 <sup>W</sup>	155'	9 1/4
CD	N 75 <sup>E</sup>	612.5'	} 49 3/4 Poles
DE	" " "	200'	
EF	S 49 <sup>W</sup>	755'	45 3/4 Poles
FG	S 46 <sup>W</sup>	755'	45 3/4 Poles

Line BEFG Established by Mr. Smith and  
 Mr. Lieb by mutual agreement.

April - 17 - 1928  
 Witness  
 Mr. Smith  
 Mr. Lieb

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(65)  
 INDEXED ON MAP





April - 28 - 1928

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# Smith-Lieb Survey

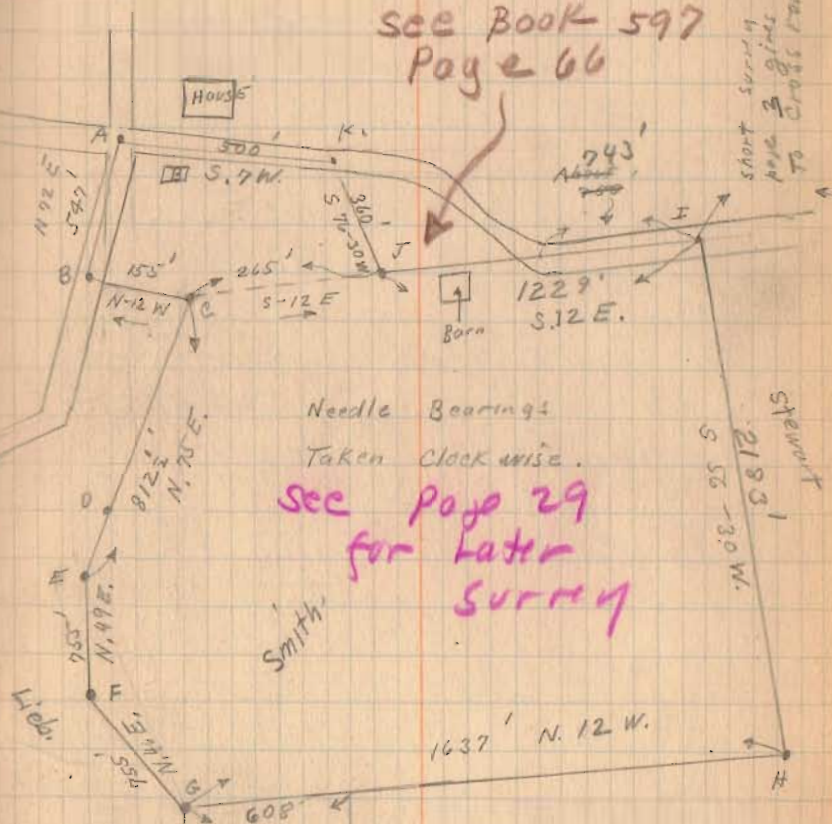
A-B-C-D-E-F-G same as on Page 15<sup>and</sup> 16



Page 127

see Book 597  
Page 66

short survey Book D,  
page 3  
To Cross roads



Needle Bearings  
Taken Clockwise.

see page 29  
for later  
survey

Smith

Lieb

Duckworth

Stewart

(655)

INDEXED ON MAP

May 12, 1935  
 New day  
 F. Wright  
 G. Core

Gungora survey (Smith & Lieb)  
 Monroe Township  
 V.M.S. 4493

- A. - Stone & Iron (Found) Book D page 3
- B. - Old post (broken off) 1' west of end post
- C. - post
- D. - "
- E. - " (D to E no fence)
- F. - "
- G. - "
- HI Fence line

See Page 15-16-17 Note Dates  
 see page 61  
 See Drawer R

