

① A

TORNADO PROJECT PRIMARY REPORT

MAKE INFO RECORD F=0 ONT (PUG 5/89) PE

July 6-7-1959

1. DATE AND TIME

2. LOCATION OR PATH (attach map) ① ST CATHERINES 06959-02 ② WATERFORD 06959-03 FROM 270°

3. PATH LENGTH NOT KNOWN <1mi; 1-4mi; 5-10mi; 11-50mi; LENGTH IF >50mi

4. PATH WIDTH UNKNOWN 5. FOLLOWED PART OF ... LINE? YES; NO; UNKNOWN

6. ANY UNUSUAL COLORATION? YES; NO; UNKNOWN

7. ANY UNUSUAL SOUND? YES; NO; UNKNOWN

8. IF ANSWER TO 6 OR 7 YES, ELABORATE;

9. LIST ANY ASSOCIATED PHENOMENA (Such as hail, vivid lightning, heavy rain, no rain, etc.) ① GUSTS TO 80 MPH

10. TOTAL DAMAGE ESTIMATE \$ THOUSANDS 11. TOTAL DEATHS NONE

12. TOTAL INJURED NONE 13. TOTAL HOMELESS NONE

14. LIST ALL REFERENCES Toronto DAILY STAR, JULY 6 1959

15. SUMMARIZE REMARKS PERTAINING TO (a) FUNNEL; (b) INTERESTING OR CAPRICIOUS EVENTS.

(a) JOHN SCOTT, manager of Big Creek conservation authority said he saw a funnel shaped cloud approach from the west. He was buffeted about in a truck as it passed.

(b) Trees uprooted, damage to sweet cherry crop. Roofs ripped from stores in Waterford. A youth fishing on a pier had to cling to a lamp standard to save himself from being blown away.

WORKSHEET

IDTO 0695903

$l = 1400 \text{ m}$

① ORIGIN x 17555700
 y 4752650

⑤ Standard Error S_x
 $\$ 404 \text{ m}$

② LIFT-OFF x_1 17558500
 y_1 4753400

⑥ Standard Error S_y
 $\$ 433 \text{ m}$

③ $(x_1 - x) = 2800$

④ $(y_1 - y) = 750$

⑦ DAMAGE LENGTH

$L = [(x_1 - x)^2 + (y_1 - y)^2]^{1/2}$ ⑧ $\alpha = \tan^{-1} \frac{|y_1 - y|}{|x_1 - x|}$

③ + ④ $\rightarrow r, \theta = 2899 \text{ m}$

$x \leftrightarrow y = 15^\circ$

⑨ Standard Error $S_L = (S_x^2 + S_y^2)^{1/2}$

⑤ + ⑥ $\rightarrow r, \theta = 592 \text{ m}$

⑩ $\beta = \frac{\tan^{-1} S_L}{L} = 12^\circ$

⑦ + ⑨ $\rightarrow r, \theta$
 $x \leftrightarrow y =$

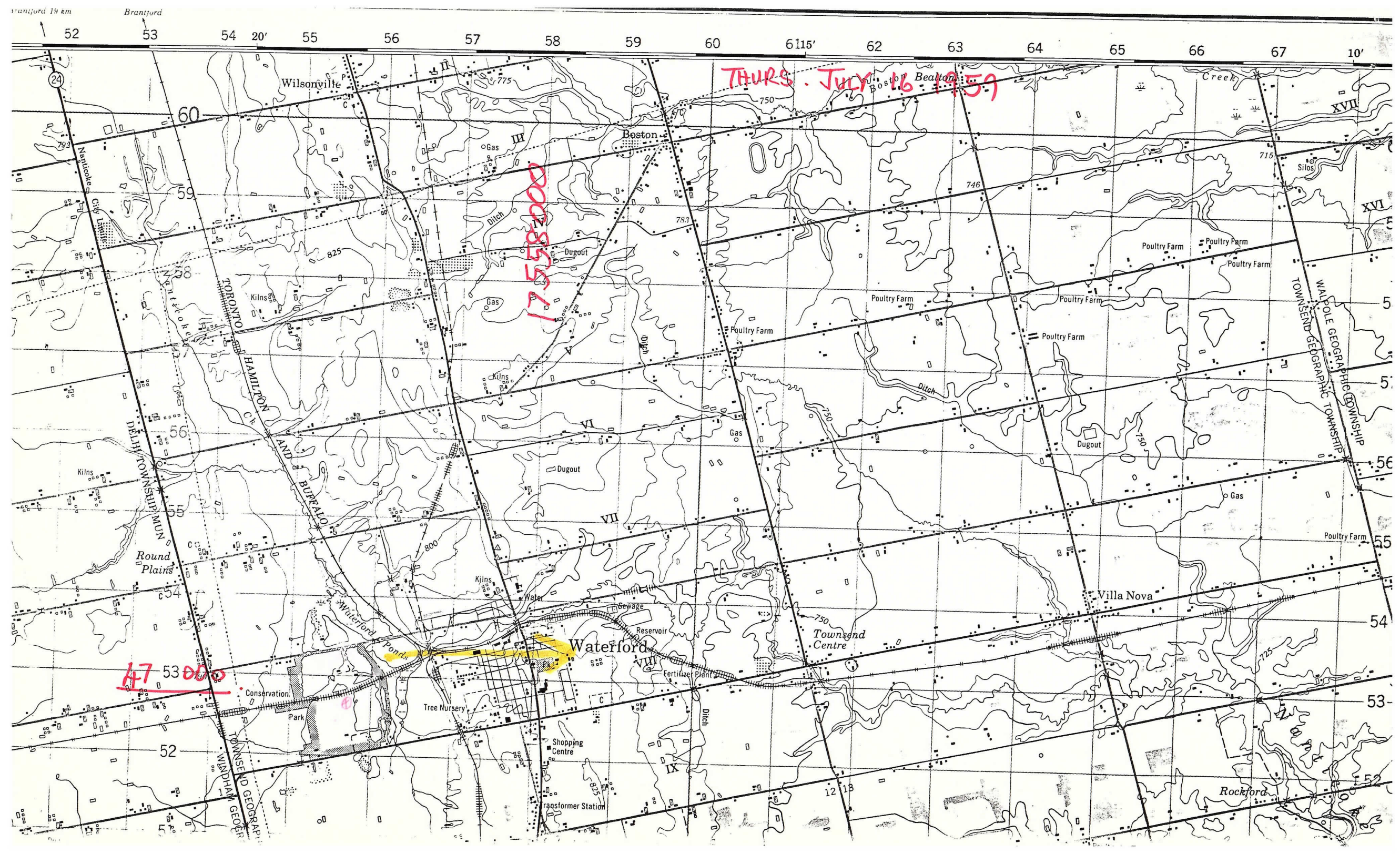
NE Quad $\phi = 90 - \alpha$

SE quad $\phi = 90 + \alpha$

NW Quad $\phi = 270 + \alpha$

SW Quad $\phi = 270 - \alpha$

⑪ $\phi = 258^\circ$



THURS. JULY 16 1959

75885571

47 53 000

Waterford

Townsend Centre

Villa Nova

Rockford

Wilsonville

Boston

Round Plains

Tree Nursery

Shopping Centre

Transformer Station

Reservoir

Fertilizer Plant

TORONTO AND HAMILTON
BUFFALO

WALPOLE GEOGRAPHIC TOWNSHIP
TOWNSEND GEOGRAPHIC TOWNSHIP

WALPOLE GEOGRAPHIC TOWNSHIP

52 53 54 20' 55 56 57 58 59 60 6115' 62 63 64 65 66 67 10'

XVII

XVI

VII

55

54

53

52

51

50

49

48

47

