C D
(1) A TORNADO PROJECT SUMMARY REPORT

MORE INFO KOKD F=0 ONT (RUGS 5/80 PE)

1. DATE AND TIME July 6. 7. 1959

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

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

4. PATH WIDTH UNKNOWN 5. TYPICAL PART OF PATH LIKE? ☐ 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

$\ell = 1400$ m

① ORIGIN x 1755700
y 4752650

⑤ Standard Error S_x
404 m

② LIFT-OFF x_1 1758500
y_1 4753400

⑥ Standard Error S_y
433 m

③ $(x_1 - x) =$ 2800

④ $(y - y_1) =$ 750

⑦ DAMAGE LENGTH

$$L = [(x_1 - x)^2 + (y - y_1)^2]^{1/2}$$

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

⑧ $\alpha = \tan^{-1} \dfrac{|y - y_1|}{|x - x_1|}$

$\boxed{x \leftrightarrow y}$ = 15°

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

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

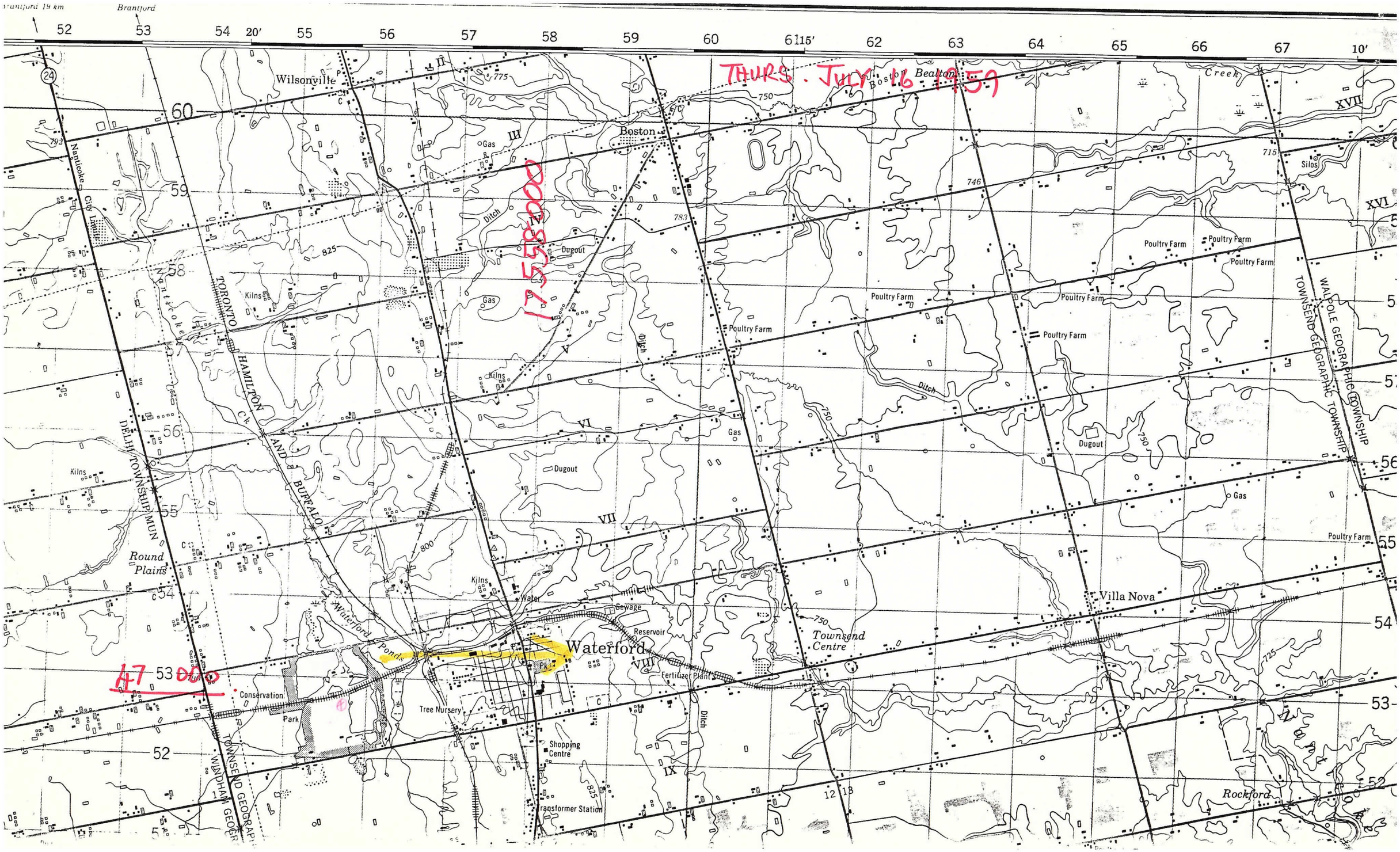
⑩ $\beta = \dfrac{\tan^{-1} S_L}{L}$ = 12°

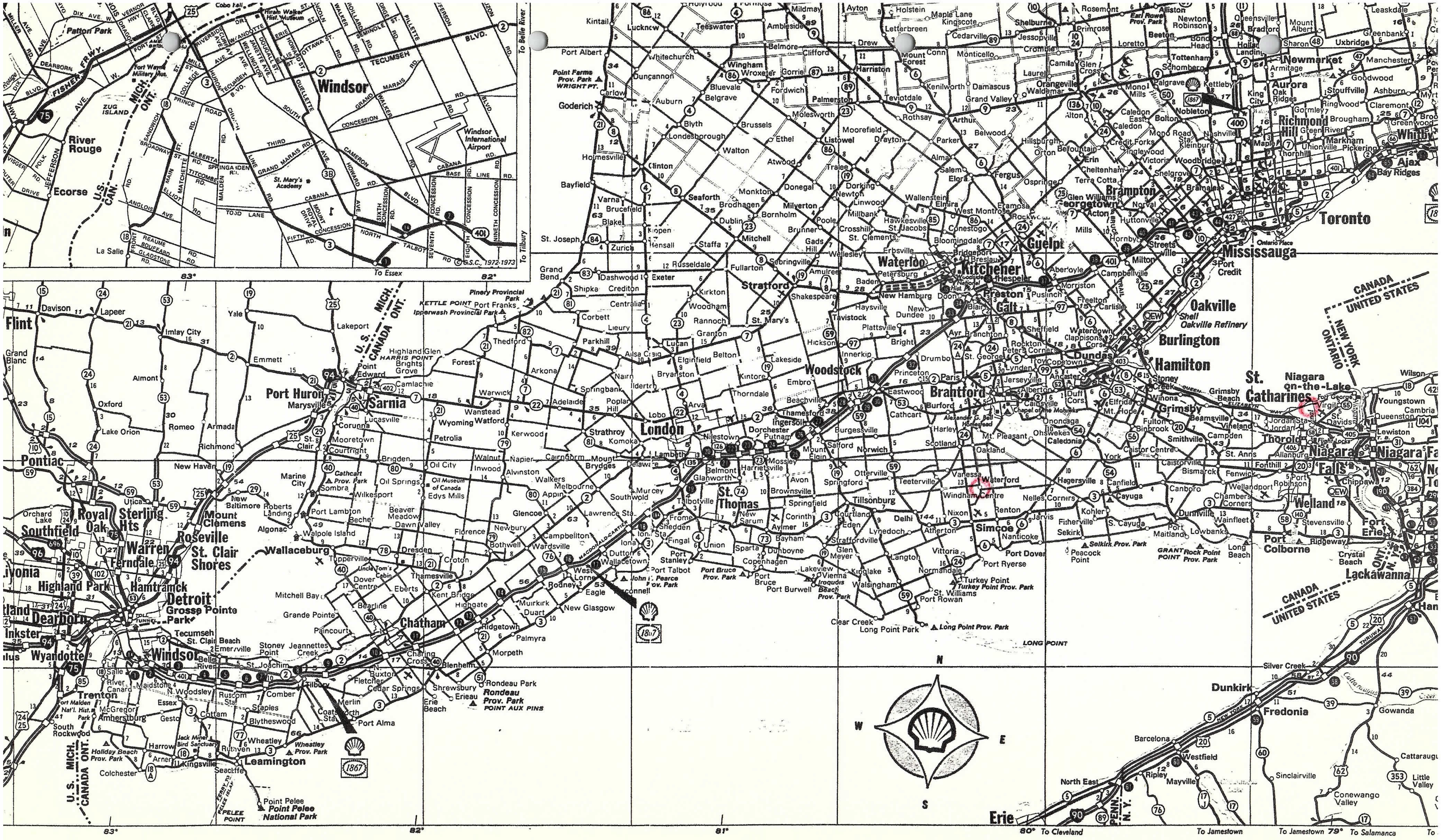
⑦+⑨ $\boxed{\rightarrow r,\theta}$
$\boxed{x \leftrightarrow y}$ =

NE Quad $\phi = 90 - \alpha$
NW Quad $\phi = 270 + \alpha$
SW quad $\phi = 270 - \alpha$

SE quad $\phi = 90 + \alpha$

⑪ ϕ = 258°


Brantford 19 km
Brantford
Wilsonville
Boston
Bealton
Creek
Nantiokes
City Limits
TORONTO, HAMILTON AND BUFFALO
DELHI TOWNSHIP
MUN
WALPOLE GEOGRAPHIC TOWNSHIP
TOWNSEND GEOGRAPHIC TOWNSHIP
WINDHAM GEOGR
Round Plains
Waterford
Waterford Ponds
Townsend Centre
Villa Nova
Rockford
Conservation Park
Tree Nursery
Shopping Centre
Transformer Station
Fertilizer Plant
Reservoir
Sewage
Water
Kilns
Gas
Dugout
Ditch
Poultry Farm
Silos
Creek
THURS. JULY 16 1959
17 55 8000
47 53 0000



For city street map of TORONTO, including area maps of HAMILTON and OTTAWA, ask any Shell Dealer in that area —— Pour le plan de TORONTO, où figurent au