

A

TORNADO PROJECT SUMMARY SHEET

F=0 ONT

1. DATE AND TIME SAT, JULY 18, 1981, 1655 EST

2. LOCATION OR PATH (attach map) Hamilton, Ont. (Time ascertained by making a phone call for ambulance, 0698112)

3. PATH LENGTH NOT KNOWN <1mi; 1-4mi; 5-40mi; 11-50mi; LENGTH IF >50mi

4. PATH WIDTH Unknown 5. TORNADO PART OF SQUALL 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; ⑥ It was big and black

9. LIST ANY ASSOCIATED PHENOMENA ⑦ "You'd think a train was coming across the yard - that's how loud it was" Hail as large as 25¢ pieces, heavy rain, no rain, etc.) heavy rain

10. TOTAL DAMAGE ESTIMATE \$ unknown 11. TOTAL DEATHS none

12. TOTAL INJURED 2 (minor) 13. TOTAL HOMELESS none

14. LIST ALL REFERENCES
The Spectator, July 20, 1981
Telephone Interview by M.S. Newark, Aug 18, 1981 (Confederation Park manager)

15. SUMMARIZE REMARKS PERTAINING TO (a) FUNNEL; (b) INTERESTING OR CAPRICIOUS EVENTS.
⑥-Four trailers (one a house trailer) were flipped, some tents blown down.
-injuries: minor cuts, scrapes and bruises.
Trees felled, roof of the Confederation Park office was lifted and displaced.

(a) a number of people saw "the twisting wind", according to the manager of the Confederation Park.

WORKSHEET
IDTO

① ORIGIN x 17601100
 y 4788900

⑤ Standard Error S_x
250R

② LIFT-OFF x_1
 y_1

⑥ Standard Error S_y

③ $(x_1 - x) =$

④ $(y_1 - y) =$

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 $\rightarrow r, \theta =$

$x \leftrightarrow y =$

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

⑤ + ⑥ $\rightarrow r, \theta =$

⑩ $\beta = \frac{\tan^{-1} S_L}{L}$

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

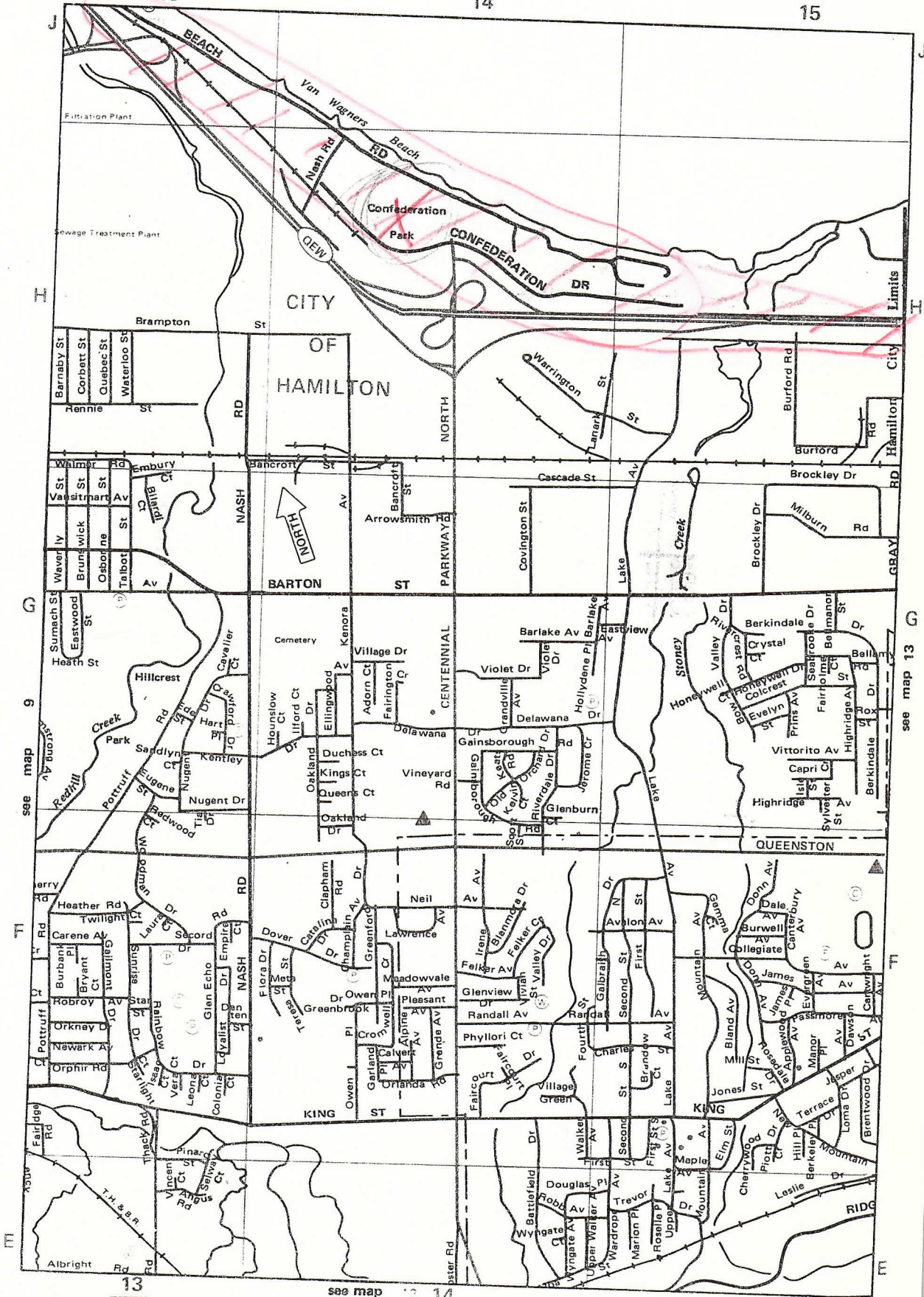
NE Quad $\phi = 90 - \alpha$

SE quad $\phi = 90 + \alpha$

NW Quad $\phi = 270 + \alpha$

SW Quad $\phi = 270 - \alpha$

⑪ $\phi =$



see map 9

see map 13

see map