A.

TORNADO PROJECT SUMMARY SHEET

F = 1

1. DATE AND TIME — LATE P.M. JULY 31 1954.

2. LOCATION OR PATH (attach map) — FROM THE WEST AND ACROSS THE CITY OF GALT. DAMAGE AT PRESTON AND PASLINCH LAKE. (2 TORS.?)

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

4. PATH WIDTH — 100 YDS

5. TORNADO PART OF SQUALL LINE? ☐ YES; ☐ NO; ☐ UNKNOWN:

6. ANY UNUSUAL COLORATION? ☐ YES; ☐ NO; ☐ UNKNOWN

7. ANY UNUSUAL SOUND? ☐ YES; ☐ NO; ☐ UNKNOWN

0695406

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

9. LIST ANY ASSOCIATED PHENOMENA (Such as hail, vivid lightning heavy rain, no rain, etc.) — Tornado preceded by a electrical storm.

10. TOTAL DAMAGE ESTIMATE — $1000's

11. TOTAL DEATHS — NONE

12. TOTAL INJURED — NONE

13. TOTAL HOMELESS — NONE

14. LIST ALL REFERENCES

GLOBE AND MAIL. MON. AUG. 2nd 1954.

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

(a) Came from the west and resembled a smoke cloud.

(b) TV aerials turned into fantastic shapes, trees felled. Chimneys blown off homes.

Framework of a new home moved 10 feet off its foundation.

Sawdust collector and piping on top of a door factory were compressed into the shape of an accordion.

WORKSHEET 0695406

$\ell = 3000$ m

ϕ 866 m

Standard Error S_x

ORIGIN x 17552900

y 4800900

$\ell = 3000$ m

Standard Error S_y

ϕ 866 m

LIFT-OFF x_1 17560800

y_1 4800600

$(x_1 - x) = 7900$

$(y - y_1) = 300$

DAMAGE LENGTH

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

$$= 7906$$

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

$$= 1225\ \phi$$

$$\beta = \frac{S_L}{57.29 L}$$

$$= 9^0$$

$$\alpha = \tan^{-1} \frac{|y - y_1|}{|x - x_1|} \quad 2.2^0$$

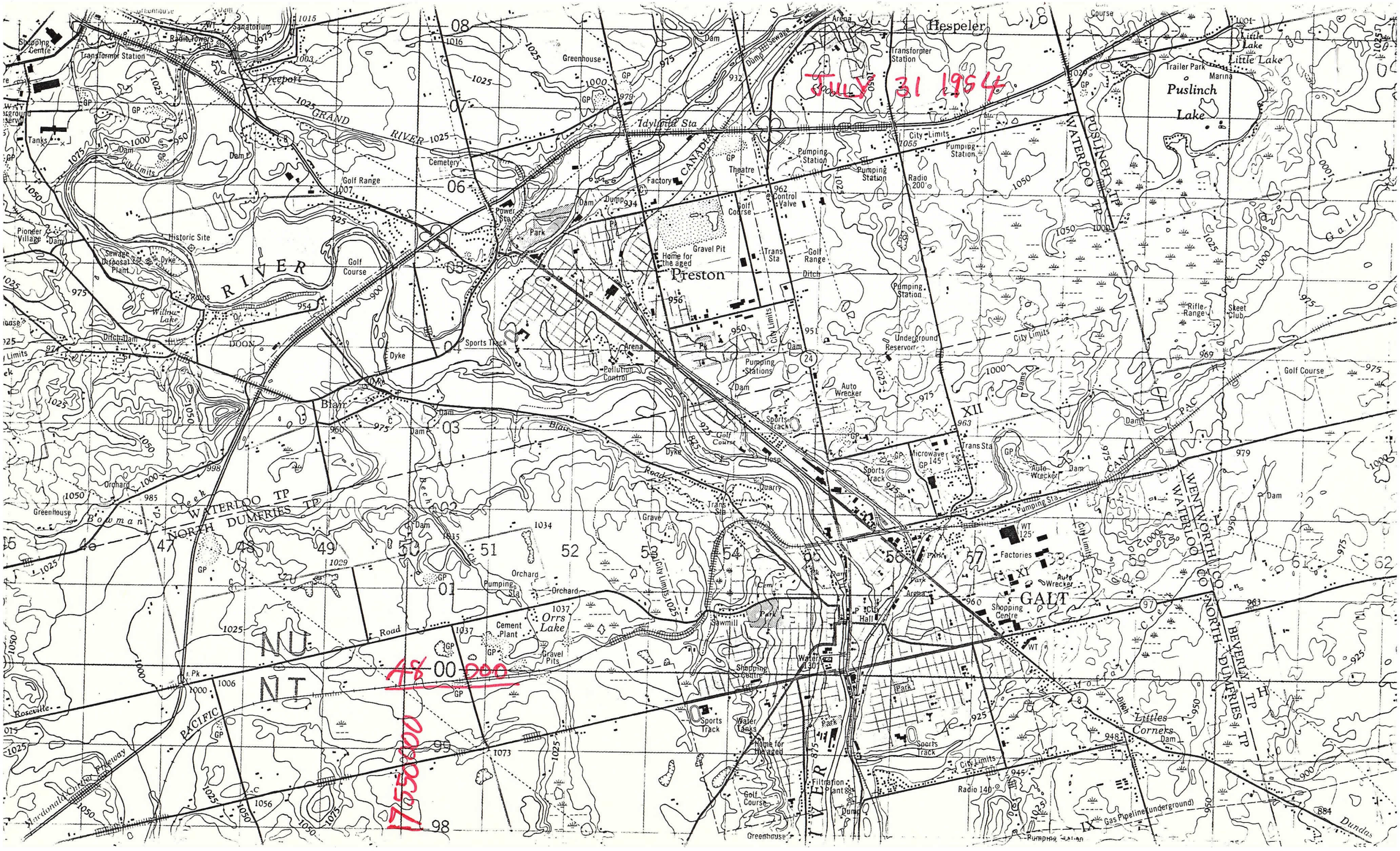
NE Quad $\phi = 90 - \alpha$

NW Quad $\phi = 270 + \alpha$

SW quad $\phi = 270 - \alpha$

SE quad $\phi = 90 + \alpha$

$\phi = 272^0$


Hespeler
Preston
GALT
Puslinch Lake
Little Lake
Trailer Park
Marina
Golf Course
Shopping Centre
Transformer Station
Radio Towers
Sanatorium
Freeport
GRAND RIVER
CANADA
Idylwild Sta
Cemetery
Factory
Theatre
Pumping Station
City Limits
Radio 200'
Radio 140'
962 Control Valve
Power Sta
Park
Historic Site
Pioneer Village
Sewage Disposal Plant
Dyke
Golf Range
Gravel Pit
Home for the aged
Trans Sta
Ditch
Underground Reservoir
Rifle Range
Skeet Club
Sports Track
Arena
Pollution Control
Pumping Stations
Auto Wrecker
Microwave
Hosp
Quarry
Grave
Orchard
Pumping Sta
Cement Plant
Orrs Lake
Gravel Pits
Sawmill
City Hall
Factories
Water
Water Tanks
Filtration Plant
Littles Corners Dam
Gas Pipeline (underground)
Pumping Station
Willow Lake
Ditch
Dam
Bowman Creek
Beech Road
Blair
DOON
WATERLOO TP
NORTH DUMFRIES TP
WENTWORTH CO
BEVERLY TP
PUSLINCH TP
PACIFIC
Roseville
Greenhouse
Orchard
Golf Course
Tanks
Transformer Station
Shopping Centre
Sewage Disposal Plant
Dump
Underground Reservoir
Microwave
Auto Wrecker
Sports Track
Golf Course
Park
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THE GLOBE AND MAIL, TORONTO, MONDAY AUGUST 2ND. 1954.

STORM DATE. "LATE AFTERNOON" SAT. JULY 31ST. 1954.

TORNADO CUTS 100-YARD SWATH THROUGH GALT.

GALT, AUG. 1. A tornado, lasting five minutes and preceding an electric storm, cut a 100-yard swath across this city late Saturday afternoon, causing thousands of dollars damage. It came from the west and resembled a smoke cloud.

The biggest loss was the destruction of a barn on the farm of MRS. H. HORTON, just outside the city limits, and with it more than $6,000 worth of paraphernalia used in the annual Santa Claus parade. There was no insurance on building or its contents.

Hydro, telephone and telegraph wires were broken by falling trees. TV aerials were turned into fantastic shapes, chimneys were blown off houses, windows smashed and a dozen or more houses were damaged when trees fell on the roofs.

On the east side of the city the framework of a new house was moved 10 feet off its foundation and a garage was lifted into the air, but the car it housed escaped without a scratch. On WATER STREET SOUTH a big window of a PRINTING PLANT was blown out and a woman passing at the time threw herself into the gutter to escape the flying glass. One house on the east side had its roof pierced in two places.

The sawdust collector and piping on top of a DOOR FACTORY were compressed into the shape of an accordion.

Linemen and city employees worked late into the night on a clean-up job and were back at it this morning.

PRESTON, to the north, was also hit hard, and at PUSLINCH LAKE the roof was lifted off a summer cottage. West of GALT a farm-shed and silo were destroyed.