A | TORNADO PROJECT SUMMARY SHEET | F=0 | BC

1. DATE AND TIME: AUG 25, 1976 — JUST BEFORE NOON

2. LOCATION OR PATH (attach map): GRANDVIEW district of Vancouver City.

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

4. PATH WIDTH [V]

5. TORNADO PART OF SQUALL LINE? [ ] YES; [ ] NO; [V] UNKNOWN:

6. ANY UNUSUAL COLORATION? [ ] YES; [ ] NO; [V] UNKNOWN

7. ANY UNUSUAL SOUND? [ ] YES; [ ] NO; [V] 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.): Vortex estimated to be 20 to 50 feet in diameter, and 100 ft high.

10. TOTAL DAMAGE ESTIMATE $ LITTLE

11. TOTAL DEATHS NONE

12. TOTAL INJURED NONE

13. TOTAL HOMELESS NONE.

14. LIST ALL REFERENCES

VANCOUVER SUN, AUG 25, 26, 1976
VANCOUVER PROVINCE, AUG 26, 1976

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

(a) [illegible] called a tornado (see 9)

(b) Windows shattered, trees knocked down, roofs and parked vehicle damaged. A child was seen holding fast to a tree to avoid being blown over.

(12) Time, date & location of occurrence - just prior to noon on August 25, 1976 in the Grandview district of Vancouver City.

Although this disturbance was classed as a tornado by the general public a weather office spokesman said it was "akin to the dust devils sometimes seen on the prairies - tiny tornadoes". No injuries were reported and property damage was minimal. Nevertheless some windows were shattered, trees knocked down and roofs and parked vehicles damaged. A child was noted holding fast to a tree to avoid being blown over. One resident in the area estimated the vortex to be in the 20 to 50 feet diameter range and a height of 100 feet. He noted that the trees in his back yard were blowing to the west and those in the front yard blowing east.

Both Vancouver papers carried a report on this tornado; the Sun on August 25, 1976 and again on the 26th, and the Province on the 26th.

WORKSHEET

IDTO 10976-01

① ORIGIN x 10 496000

y 5458000

② LIFT-OFF x_1

y_1

③ $(x_1 - x) =$

④ $(y - y_1) =$

⑤ Standard Error S_x

0 = 1250

⑥ Standard Error S_y

⑦ DAMAGE LENGTH

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

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

③+④ $\boxed{\Rightarrow r, \theta}$ =

$\boxed{x \leftrightarrow y}$ =

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

⑤+⑥ $\boxed{\rightarrow r, \theta}$ =

⑩ $\beta = \dfrac{\tan^{-1} S_L}{L}$

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 $\phi =$

Storm Date! Wednesday Aug 25 76

Vancouver Sun
August 25, 1976
Page 1

WHIRLWIND STARTLES EAST END RESIDENTS

A whirlwind at east Vancouver shortly before noon today shattering windows, knocking down trees, damaging roofs and parked vehicles.

It appeared to be centred in the Grandview area between Park Drive and Boundary Road.

Mrs. [illegible]pbell of 2566 Kitchener said it destroyed her tent trailer and blew the windows from her home down the street.

The Vancouver weather office had no record of it on its instruments but said several calls had been received from residents of the area.

A spokesman said the general weather conditions would be conducive to a whirlwind.

Don McClure, 26, of 2[illegible]4 Kamloops said one neighbor told him the wind was so strong that one youngster had to hold on to a tree to avoid being blown over.

McClure said the wind came up "all of a sudden."

"It was like a tornado," he said. "You could see pieces of paper blowing around in the sky. The trees in our back yard were blowing west and the trees in the front yard were blowing east.

"It was just weird. At first, I thought it was someone in our house having a shower," McClure said. "Then I went to the window and the curtains blew right into my face.

"It only lasted three or four minutes."

Mrs. Howard Farrell of 2595 Kitchener said the wind blew several potted plants on her back balcony "right up into the air."

The Province
August 26, 1976
Page 31

Whirlwind strikes Grandview

A freak tornado-like windstorm hit the Grandview area Wednesday and damaged houses between Park Drive and Boundary Road.

Shingles were torn from roofs, windows blown out, trees knocked down and several autos were damaged.

The weatherman said such whirlwinds, actually small cyclones, are associated with large thunderstorms.

And hours later, one of the worst storms of the year gave the patrons at the Pacific National Exhibition thunder, lightning and a drenching downpour.

The outlook is for some sunshine this afternoon but the weatherman says there is no hope for any substantial improvement.

"We have had a big trough offshore all summer that has been pumping this cold, moist air into most of B.C. It is still out there and there is no sign of it moving."

He said weather records at the end of the month will establish that this is the worst August on record.

"We have only had 95 hours of sunshine so far and the all-time low was set last year with 145 hours. There is no way we will get that much this year."

On Wednesday, the Penticton drybelt set an all-time record for rainfall with 75.7 mms. The previous record of 72.1 mms was set in 1948.

Rain was general in most of the southern Interior Wednesday and more unsettled weather is forecast.

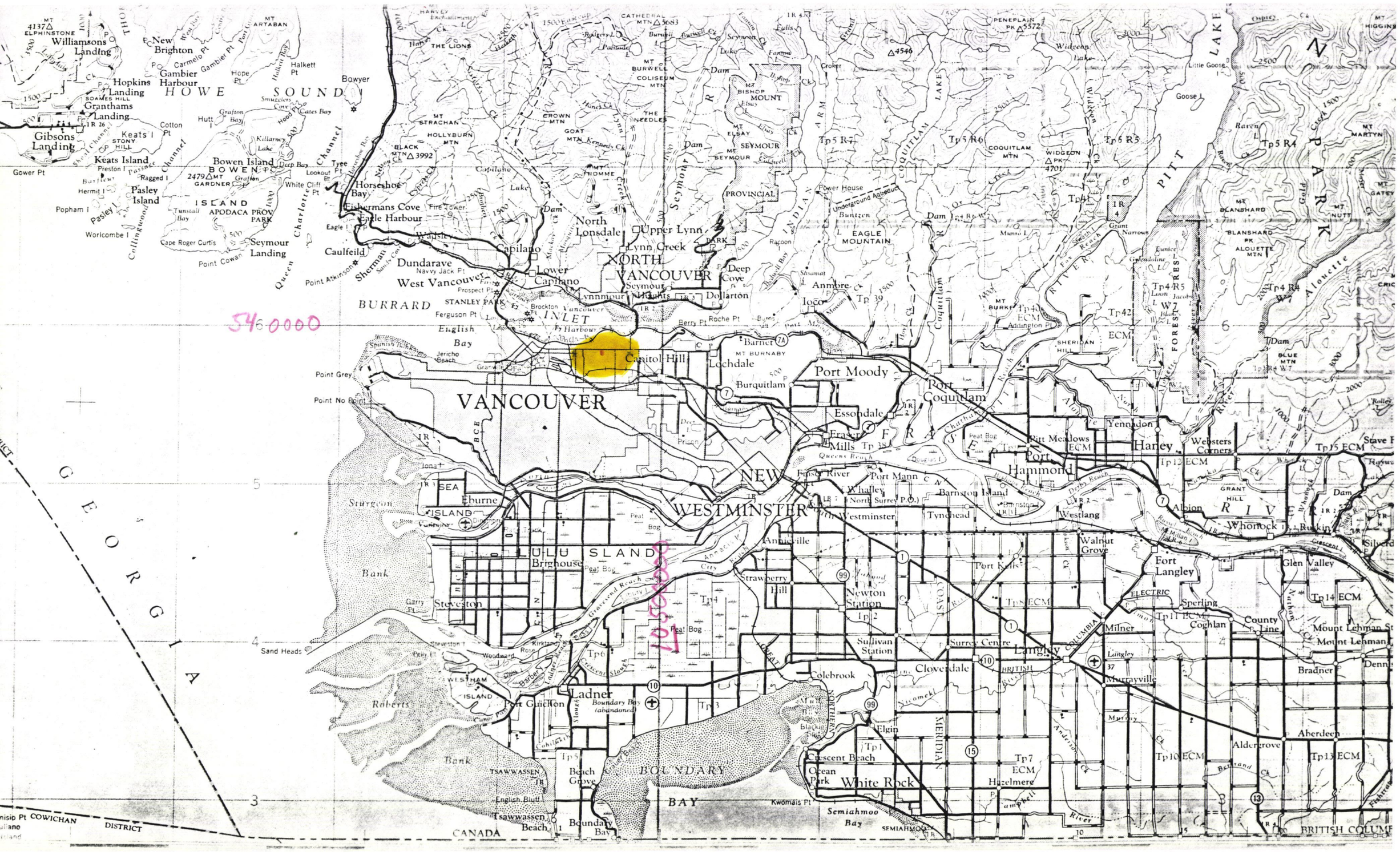
And the 30-day forecast from Mid-August to mid-September calls for more rain and below-normal temperatures.

Although none of the weathermen saw the freak wind that hit Vancouver Wednesday, they said it was probably a whirlwind, a cousin of the dust devils of the Prairies.

Said Don McClure, 26, of 2574 Kamloops: "The trees in our back yard were blowing west and the trees in the front yard were blowing east."

He said the wind came up without warning and lasted only a minute or two.

Mrs. Jean Campbell of 2566 Kitchener said the wind destroyed her tent trailer and blew windows out of her house.


VANCOUVER
NORTH VANCOUVER
WEST VANCOUVER
BURNABY
NEW WESTMINSTER
PORT MOODY
PORT COQUITLAM
PORT COQUITLAM
PORT MOODY
COQUITLAM
BURRARD INLET
HOWE SOUND
GEORGIA
BOUNDARY BAY
CANADA
BRITISH COLUMBIA
Capitol Hill
Lochdale
Burquitlam
Essondale
Fraser Mills
Port Hammond
Haney
Pitt Meadows
Maple Ridge
Whonnock
Albion
Westlang
Tyncohead
Barnston Island
Whalley
North Surrey P.O.
Port Mann
Annieville
Walnut Grove
Fort Langley
Glen Valley
Strawberry Hill
Newton Station
Port Kells
Sullivan Station
Surrey Centre
Cloverdale
Langley
Milner
Sperling
Coghlan
County Line
Mount Lehman
Colebrook
Ladner
Port Guichon
Elgin
Crescent Beach
Ocean Park
White Rock
Hazelmere
Aldergrove
Bradner
Murrayville
Abbotsford
Aberdeen
Steveston
Eburne
Sea Island
Lulu Island
Brighouse
Garry Pt
Sturgeon Bank
Roberts Bank
Sand Heads
Tsawwassen
Tsawwassen Beach
Boundary Bay
Beach Grove
English Bluff
Semiahmoo Bay
Kwomais Pt
Point Grey
Point No Point
Point Atkinson
Point Cowan
Ferguson Pt
Berry Pt
Roche Pt
Spanish Banks
Jericho Beach
Iona
Sherman
Queen Charlotte Channel
Collingwood Channel
Passage Channel
Gower Pt
Gibsons Landing
Keats Island
Keats I
Gambier Harbour
New Brighton
Williamsons Landing
Hopkins Landing
Granthams Landing
Bowyer
Halkett Pt
Hope Pt
Hutt I
Grafton Bay
Smugglers Cove
Hood Pt
Cates Bay
Killarney Lake
Deep Bay
Tree Pt
Lookout Pt
White Cliff Pt
Horseshoe Bay
Fishermans Cove
Eagle Harbour
Caulfeild
Dundarave
Navvy Jack Pt
Capilano
Lower Capilano
Lynnmour
Seymour Heights
Dollarton
Deep Cove
North Lonsdale
Upper Lynn
Lynn Creek
Indian Arm
Seymour R.
Capilano R.
Lynn Creek
Coquitlam R.
Pitt River
Alouette R.
Fraser River
Mt Seymour
Mt Elsay
Mt Bishop
Mt Burwell
Mt Strachan
Mt Fromme
Mt Crown
Mt Goat
Mt Harvey
Mt Artaban
Mt Elphinstone
Cathedral Mtn
Black Mtn
Hollyburn Mtn
Coliseum Mtn
Coquitlam Mtn
Widgeon Pk
Peneplain Pk
Blanshard Pk
Mt Blanshard
Mt Martyn
Mt Nutt
Mt Gatey
Blue Mtn
Eagle Mountain
Apodaca Prov Park
Bowen Island
Pasley Island
Worlcombe I
Popham I
Gardner
Stanley Park
Prospect Pt
Navvy Jack Pt
Brockton Pt
Lookout Pt
Fire Tower
Prison
Deep I
Iona
Annacis I
Barnston I
Derby Reach
Queens Reach
Fraser Reach
Pitt Reach
Alouette Reach
Coquitlam Reach
Pitt River Forest Res
Sheridan Hill
Addington Pt
Power House
Underground Aqueduct
Buntzen
Anmore
Ioco
Racoon
Munro I
Grant Narrows
Widgeon Lake
Little Goose
Goose I
Raven L
Gold Creek
Alouette Lake
Gibsons Landing
Gower Pt
Keats Island
Gambier Harbour
Bowen Island
Horseshoe Bay
Caulfeild
Dundarave
West Vancouver
Capilano
Lynnmour
Dollarton
Deep Cove
North Lonsdale
Upper Lynn
Lynn Creek
Seymour Landing
Point Cowan
Cape Roger Curtis
Worlcombe I
Popham I
Pasley Island
Keats I
Hopkins Landing
Williamsons Landing
Halkett Pt
Bowyer
Hutt I
Grafton Bay
Smugglers Cove
Hood Pt
Cates Bay
Killarney Lake
Deep Bay
Tree Pt
Lookout Pt
White Cliff Pt
Fishermans Cove
Eagle Harbour
Eagle I
Wadsley
Caulfeild
Dundarave
Navvy Jack Pt
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Lower Capilano
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Mt Goat
Mt Harvey
Mt Artaban
Mt Elphinstone
Cathedral Mtn
Black Mtn
Hollyburn Mtn
Coliseum Mtn
Coquitlam Mtn
Widgeon Pk
Peneplain Pk
Blanshard Pk
Mt Blanshard
Mt Martyn
Mt Nutt
Mt Gatey
Blue Mtn
Eagle Mountain
Apodaca Prov Park
Bowen Island
Pasley Island
Worlcombe I
Popham I
Gardner
Stanley Park
Prospect Pt
Navvy Jack Pt
Brockton Pt
Lookout Pt
Fire Tower
Prison
Deep I
Iona
Annacis I
Barnston I
Derby Reach
Queens Reach
Fraser Reach
Pitt Reach
Alouette Reach
Coquitlam Reach
Pitt River Forest Res
Sheridan Hill
Addington Pt
Power House
Underground Aqueduct
Buntzen
Anmore
Ioco
Racoon
Munro I
Grant Narrows
Widgeon Lake
Little Goose
Goose I
Raven L
Gold Creek
Alouette Lake
Tp 39
Tp 42
Tp 38
Tp 1
Tp 2
Tp 3
Tp 4
Tp 5
Tp 6
Tp 7
Tp 10 ECM
Tp 11 ECM
Tp 12 ECM
Tp 13 ECM
Tp 14 ECM
Tp 15 ECM
Tp 5 R3
Tp 5 R4
Tp 5 R5
Tp 5 R6
Tp 5 R7
Tp 4 R4
Tp 4 R5
Tp 4 R6
Tp 4 R7
IR 1
IR 2
IR 3
IR 4
IR 26
Dam
Dam
Dam

WORKSHEET

IDTO 10976-03

① ORIGIN x 10523000

y 5995000

② LIFT-OFF x_1

y_1

③ $(x_1 - x) =$.

④ $(y - y_1) =$

⑤ Standard Error S_x

0 = 2000

⑥ Standard Error S_y

⑦ DAMAGE LENGTH

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

③+④ $\boxed{\Rightarrow r, \theta}$ = . .

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

$\boxed{x \leftrightarrow y}$ = .

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

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

⑩ $\beta = \dfrac{\tan^{-1} S_L}{L}$

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 $\phi =$

WORKSHEET

IDTO 10976-02

(1) ORIGIN x 10 516500

y 5980000

(5) Standard Error S_x

$\bigcirc$ = 1000

(2) LIFT-OFF x_1

y_1

(6) Standard Error S_y

(3) $(x_1 - x)$ =

(4) $(y - y_1)$ =

(7) DAMAGE LENGTH

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

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

(3)+(4) $\boxed{\rightarrow r, \theta}$ =

$\boxed{x \leftrightarrow y}$ =

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

(5)+(6) $\boxed{\rightarrow r, \theta}$ =

(10) $\beta = \dfrac{\tan^{-1} S_L}{L}$

(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 =