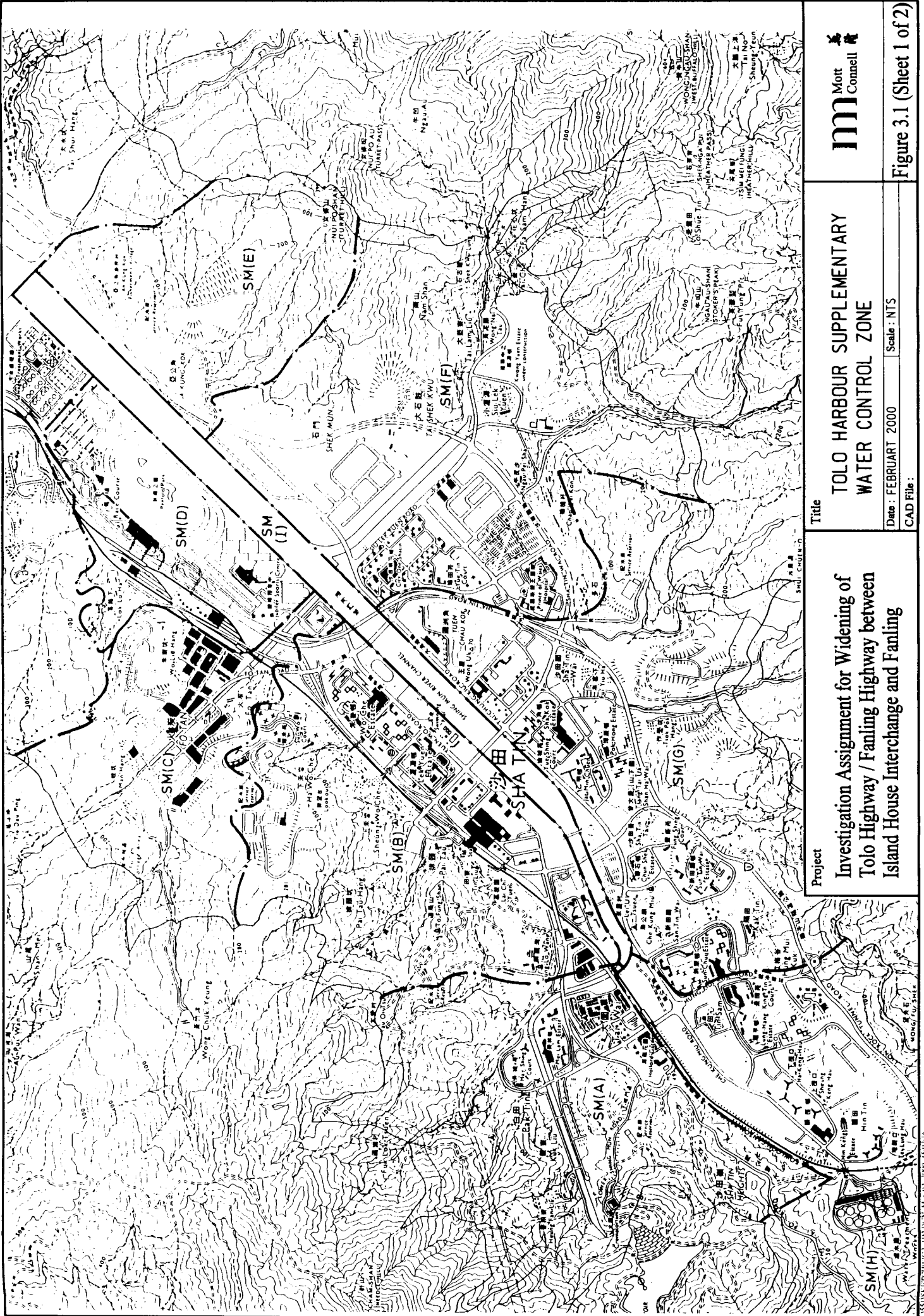


Project
 港政務司官邸附近道路交匯處與粉嶺之間的吐露港公路/粉嶺公路擴闊工程之研究動利
Investigation Assignment for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanning

Title
 位置圖
LOCATION PLAN

m Mott
 McConnell
 圖號 Figure 1.1

Date: MAY. 2000 01/2000 Scale: NTS 不依比例
 CAD File: F:/PROJ/551/SKETCH/FIG1_1P3C



**TOLO HARBOUR SUPPLEMENTARY
WATER CONTROL ZONE**

Figure 3.1 (Sheet 1 of 2)

Project
Investigation Assignment for Widening of
Tolo Highway / Fanling Highway between
Island House Interchange and Fanling

Title
TOLO HARBOUR SUPPLEMENTARY
WATER CONTROL ZONE


Date : FEBRUARY 2000 **Scale** : NTS

CAD File :

ISSUED UNDER THE PROVISIONS OF THE PUBLIC WORKS ACT, 1974



吐露港
TOLO HARBOUR

	<p>Title</p> <p>TOLO HARBOUR SUPPLEMENTARY WATER CONTROL ZONE</p> <p>Date : FEBRUARY 2000 Scale : NTS CAD File :</p>	<p>Project</p> <p>Investigation Assignment for Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling</p>	<p>Figure 3.1 (Sheet 2 of 2)</p>
---	---	--	---

Drawing No.

Legend:

★ ASR

ASR = Air Sensitive Receiver

Base Map
OZP No.: S / FSS / 8
Dated: 1999/6/22

Rev.	Date	Description	Drawn	Checked	Appr'd
1					

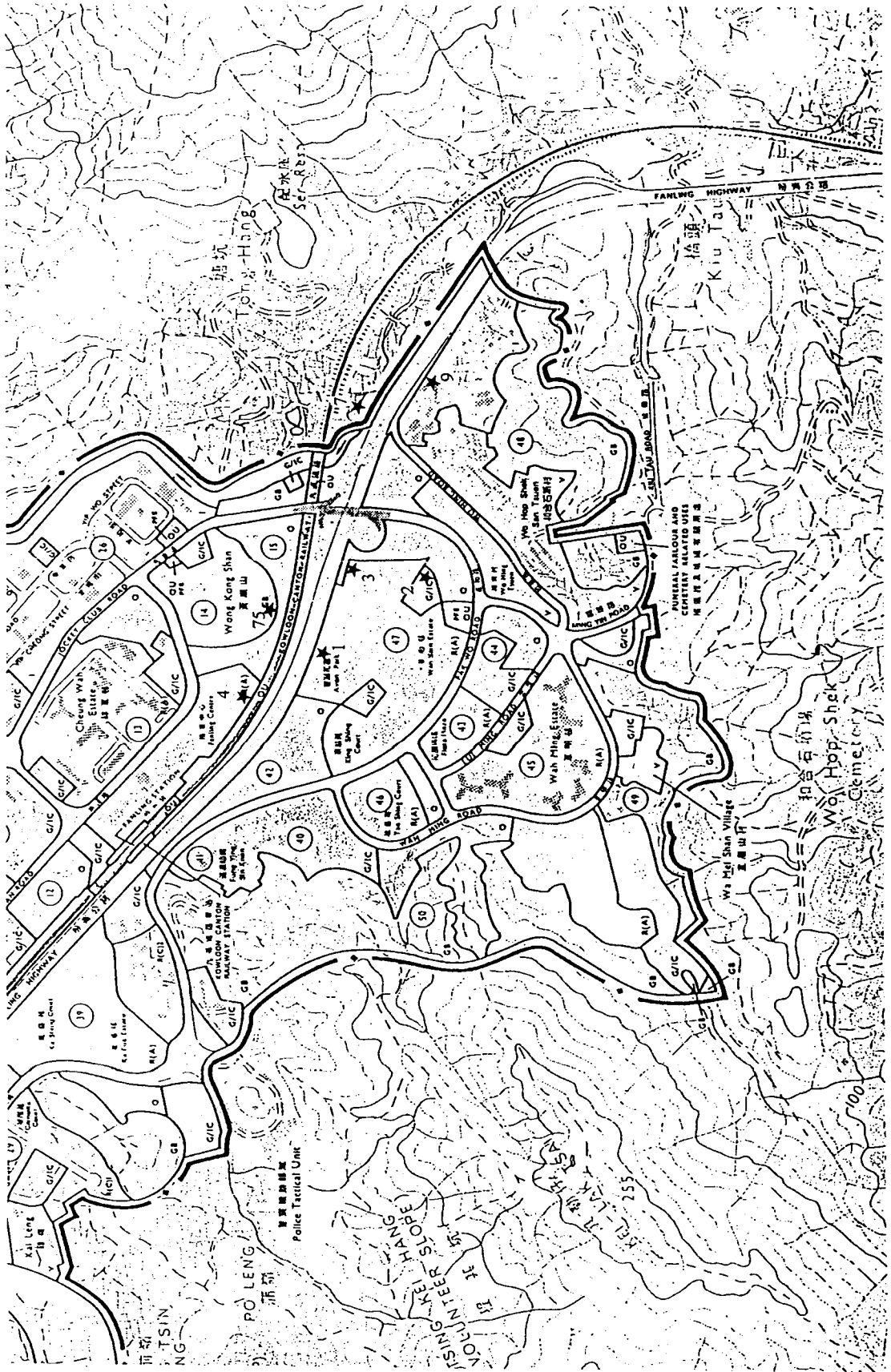
Client:
The Government of the Hong Kong
Special Administrative Region
Highways Department
Major Works Project Management Office

Consulting Engineer:
Mott Connell Ltd.
407 Hopewell Centre
100 Queen's Road East,
Hong Kong
Tel No. 2528 8727
Fax No. 2527 1623

Project:
Investigation Assignment for Widening of
Tolo Highway / Fanling Highway between
Island House Interchange and Fanling

Title:
Locations of Air Sensitive Receiver
at Fanling & Sheung Shui

Scale:	NTS
Contract No. / Lot:	
Drawing No.	4.1.1
Rev.	C

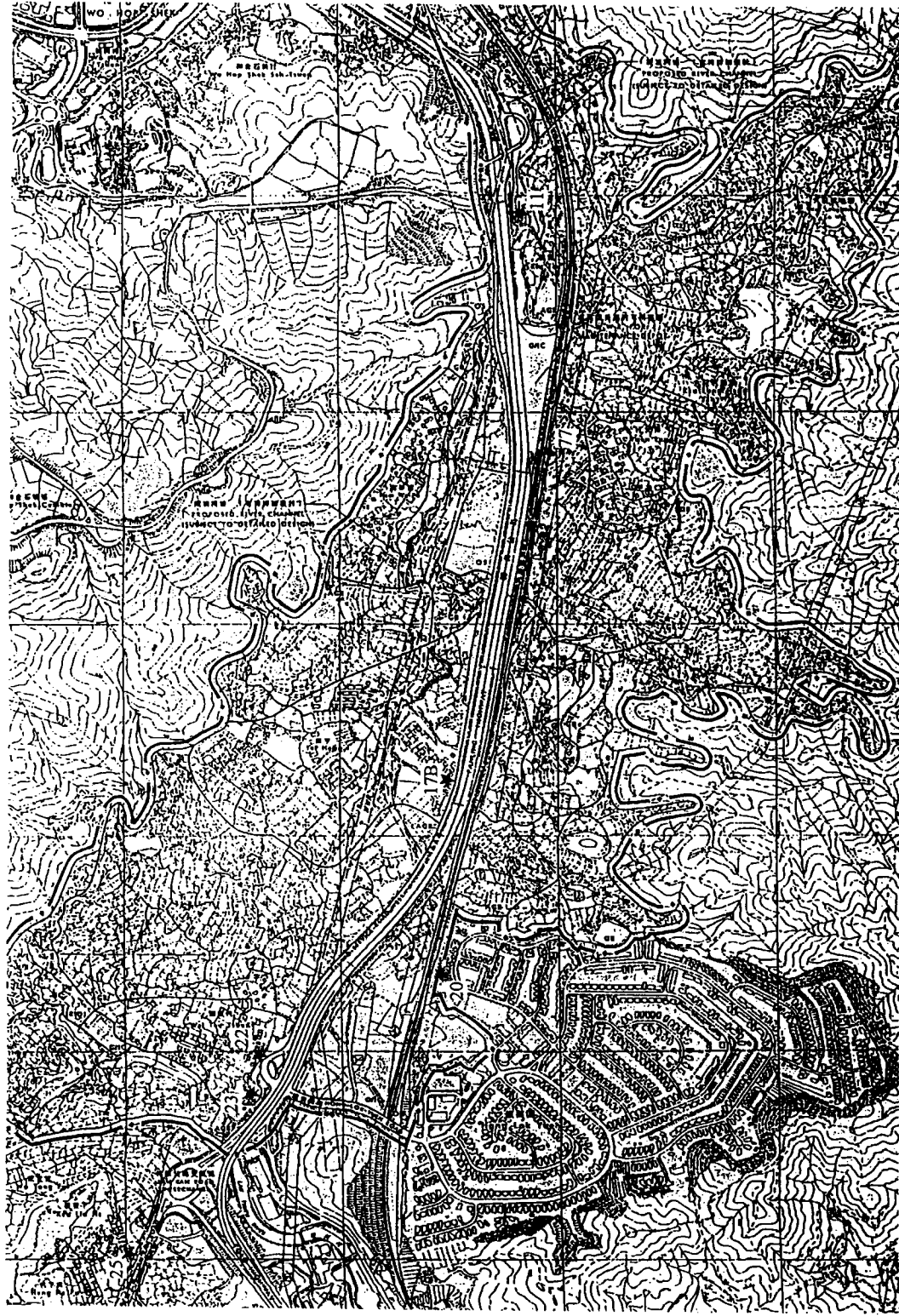


Drawing No

Legend:

★ ASR

ASR = Air Sensitive Receiver



Base Map
 OZP No.: S / NE-KLH / 2
 Dated: 1999/8/6

Rev.	Date	By	Description	Appr.	Date	By	Description
1							

Client:
 The Government of the Hong Kong
 Special Administrative Region
 Highways Department
 Major Works Project Management Office

Consulting Engineers:
Mott Connell Ltd.
 40/F Hopwood Centre
 183 Queen's Road East,
 Hong Kong
 Tel No. 2828 5757
 Fax No. 2827 1823

Project:
 Investigation Assignment for Widening of
 Tolo Highway / Fanning Highway between
 Island House Interchange and Fanning

Title:
 Locations of Air Sensitive Receiver
 at Tai Po

Scale: NTS
 Contract No. / Link
 Drawing No. 4.1.2
 Rev. D

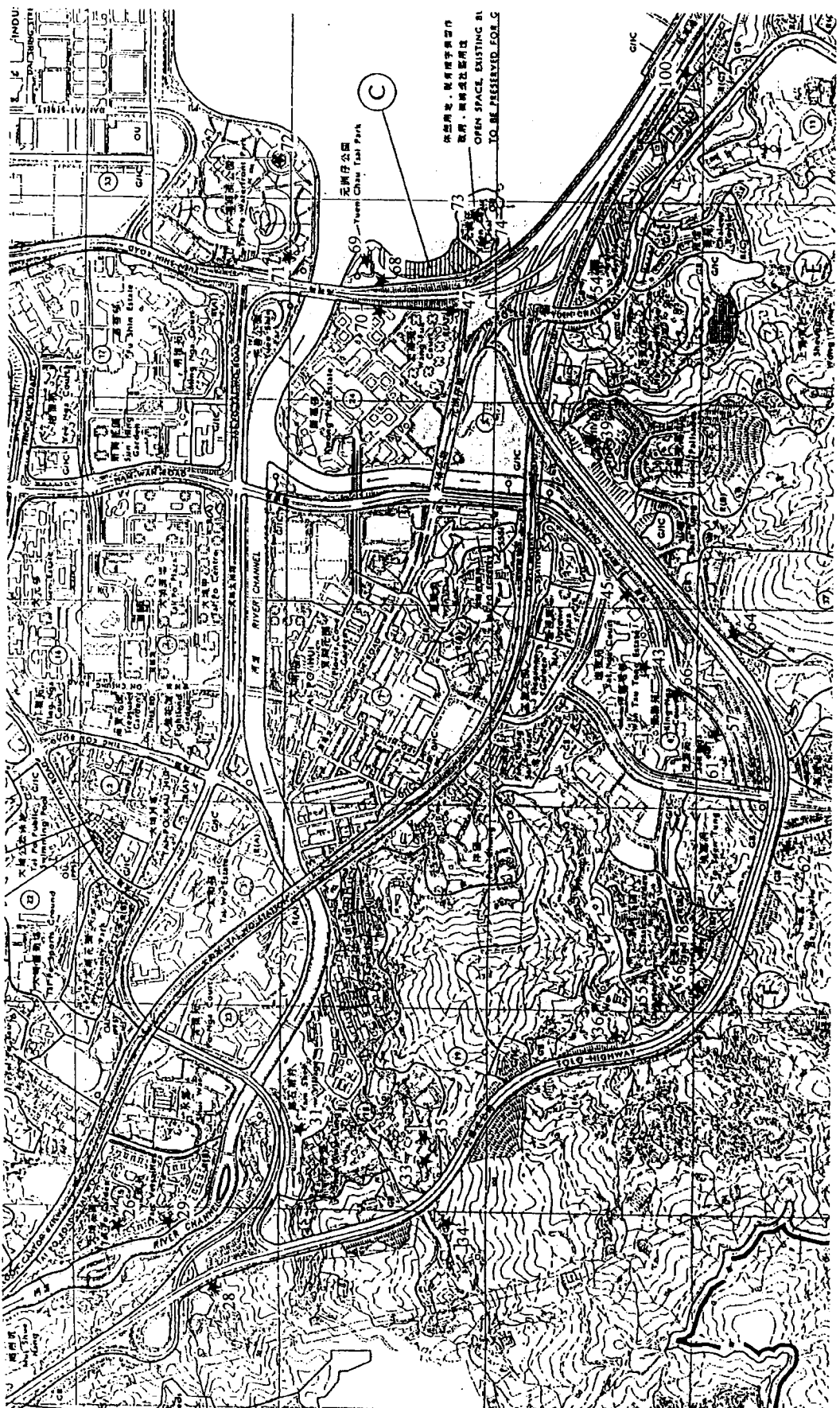
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Drawing No.

Legend

ASR

ASR = Air Sensitive Receiver



Base Map
 OZP No.: S/TP/11
 Dated: 1999/8/20

Rev.	Date	Desc.	Prep.	Check.
1	1999/8/20	Final		

Drawn: ERMCO H.K. Ltd. Date: Mar 2000
 Checked: [Signature]
 Scale: For A3
 Date of Issue: [Signature]

The Government of the Hong Kong
 Special Administrative Region
 Highways Department
 Major Works Project Management Office

Consulting Engineering
**Mott
 &
 Connell**
 40/F Hopewell Centre
 183 Queen's Road East,
 Hong Kong
 Tel No. 2828 9797
 Fax No. 2827 1823

Investigation Assignment for Widening of
 Tolo Highway / Fanning Highway between
 Island House Interchange and Fanning

The
**Locations of Air Sensitive Receiver
 at Tai Po**

Scale:	NTS
Contract No. / Unit	
Drawing No.	4.1.3
Rev.	D

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 &
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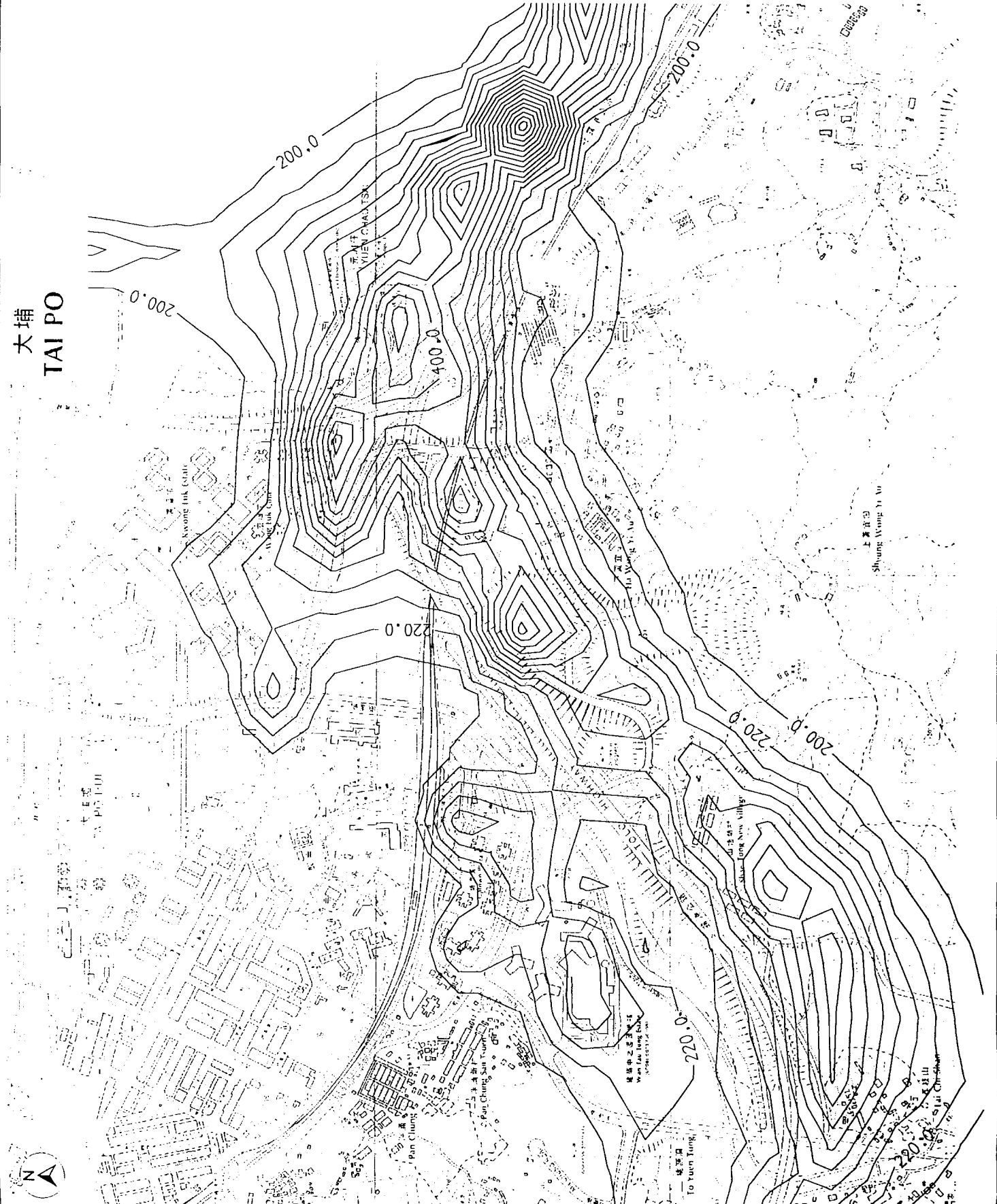
Drawing No.

Legend:

Hourly NO₂ Concentration
Isopleths (µg/m³)

Hourly NO₂ AQO : 300 µg/m³

大埔 TAI PO

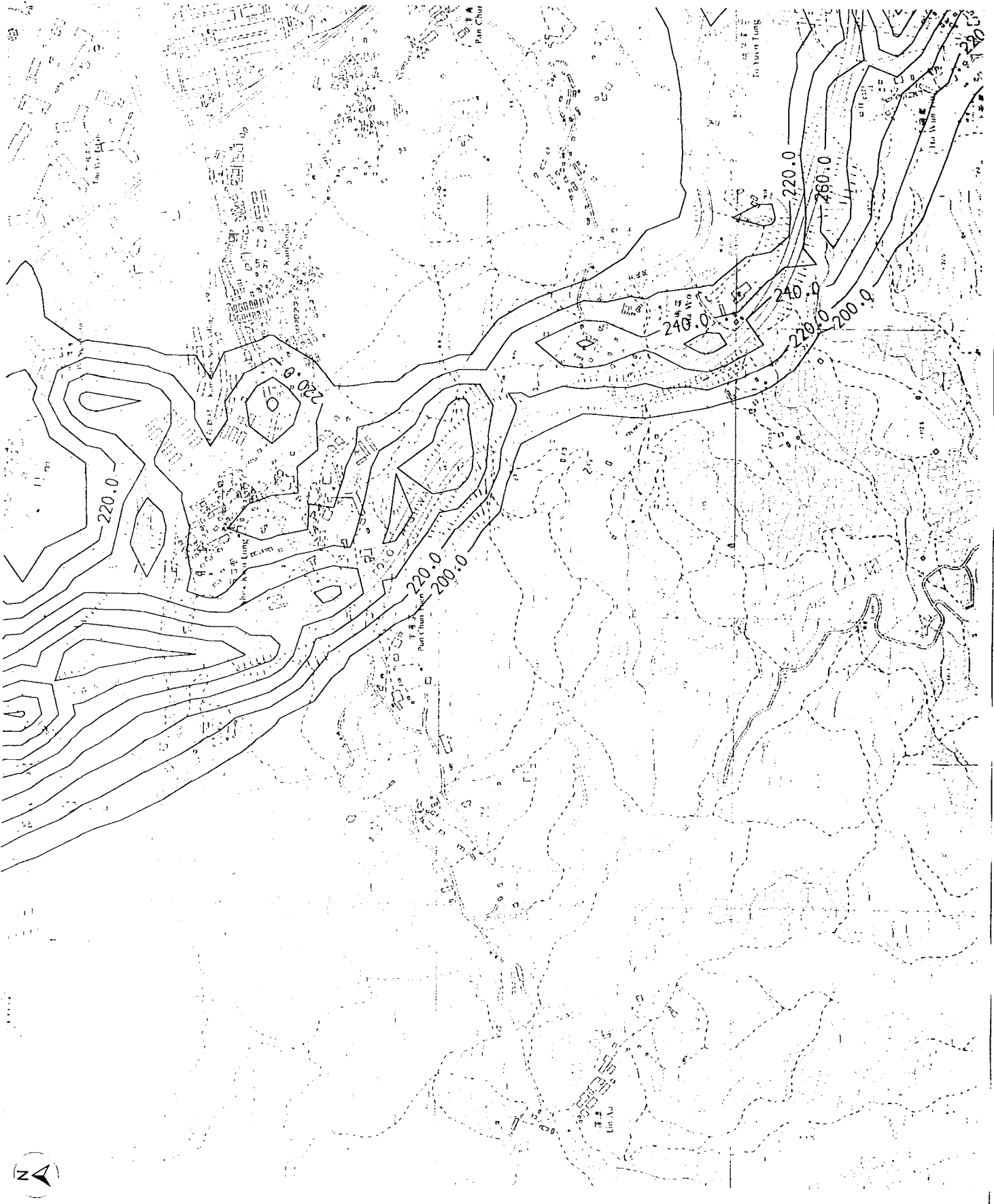


Rev.	Date	Dim.	Description	By	Chk.	Appr.
Design:	Entered H.E. Ltd.	Date:	Apr 2020	Checked:		
Approved:	For H.C.D.	Date of issue:				
Client:	<p>The Government of the Hong Kong Special Administrative Region Highways Department Major Works Project Management Office</p> <p>Consulting Engineering Mott Connell Ltd. 40/F Hopewell Centre 183 Queen's Road East Hong Kong Tel No. 2828 9757 Fax No. 2827 1823</p> <p>Project Investigation Assignment for Widening of Tolo Highway / Feinting Highway between Island House Interchange and Feinting T.M.</p>					
Scale:	1: 6250					
Contract No. / Unit						
Drawing No.	4.2.1					
Rev.	D					

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Legend:
 — 300.0 — Hourly NO₂ Concentration
 Isopleths ($\mu\text{g}/\text{m}^3$)
 Hourly NO₂ AQO - 300 $\mu\text{g}/\text{m}^3$



Rev.	Date	Description	Design	Checked	App'd.

Designed:
 Drawn:
 Approved:
 Client:
 The Government of the Hong Kong Special Administrative Region
 Highways Department
 Major Works Project Management Office

Consulting Engineers
Mott Connell Ltd.
 405 Hoi Yee Centre
 183 Queen's Road East
 Hong Kong
 Tel No. 2828 5757
 Fax No. 2827 1623

Project:
 Investigation Assignment for Widening of Tolo Highway / Fanning Highway between Island House Interchange and Fanning

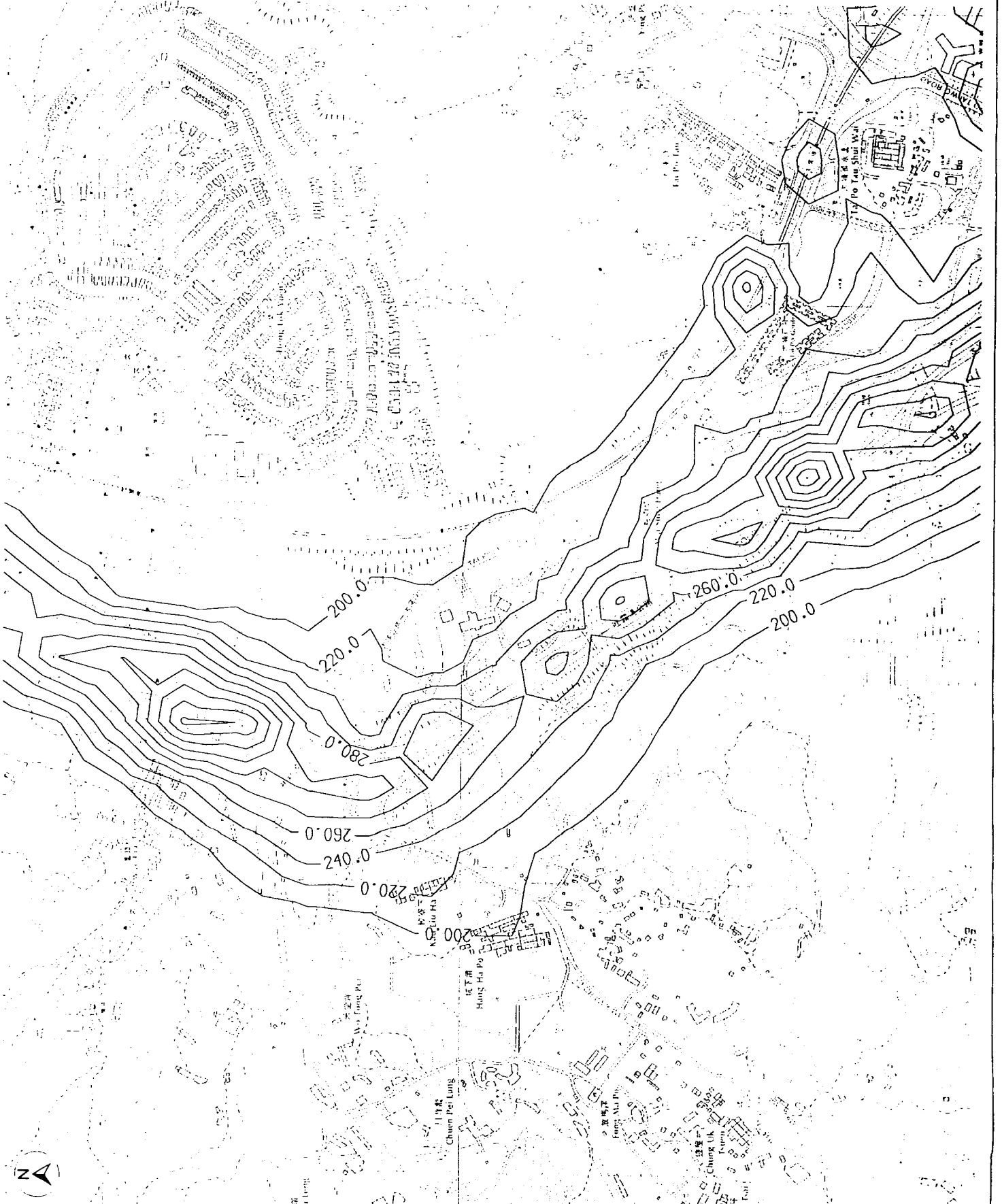
Title:
 Hourly NO₂ Concentration Isopleths at 6 mPD (Area 2)

Mott Connell
 Scale: 1 : 6250
 Contract No./Unit
 Drawing No. 4.2.2
 Rev. **D**
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Drawing No.

Legend:

Hourly NO₂ Concentration
Isopleths (µg/m³)
Hourly NO₂ AQO - 300 µg/m³

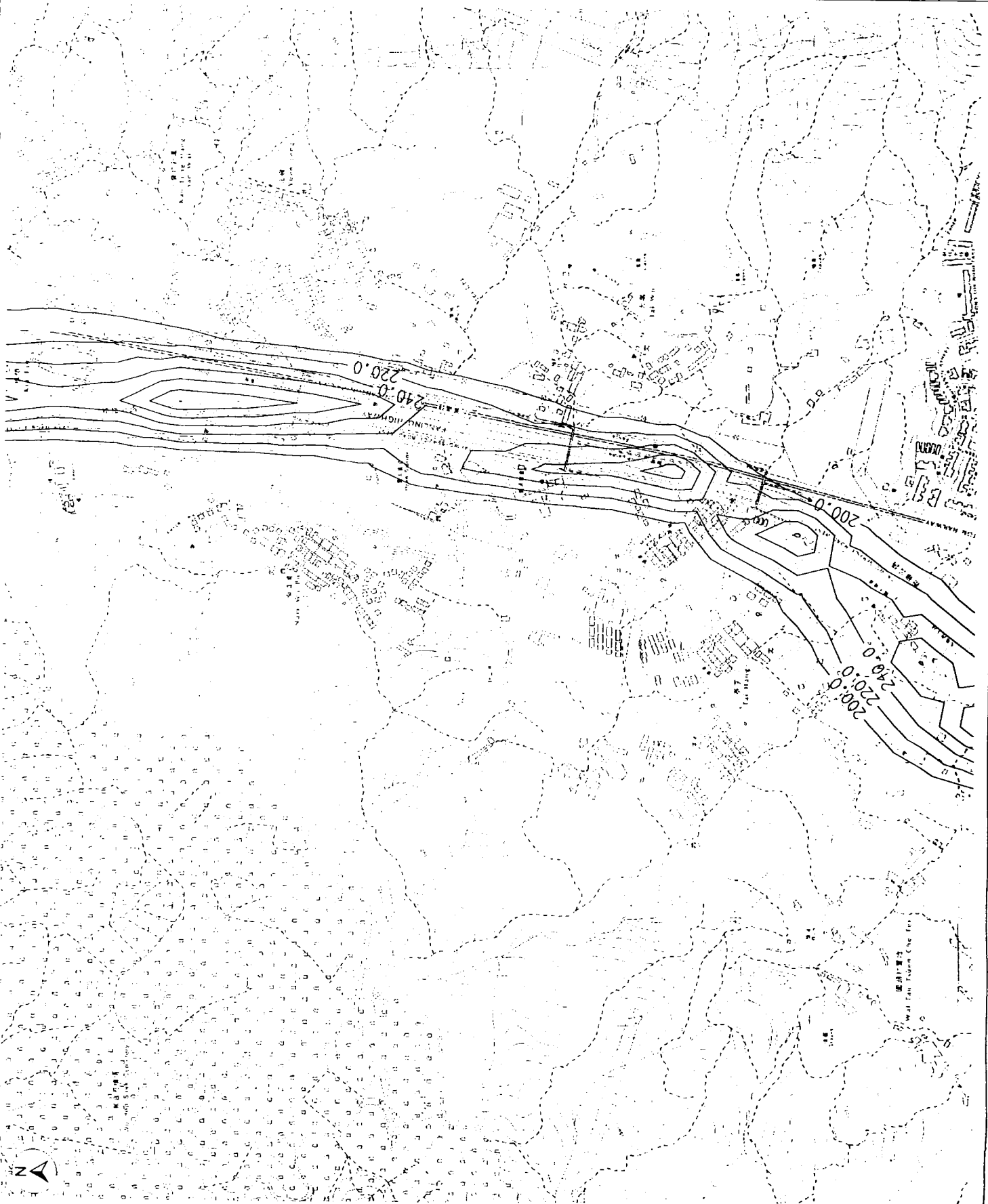


Rev.	Date	By	Description	Drn.	Chk.	Appr.
Designed: ERM/CSA H.K. Ltd. Date: Apr 2000 Checked:						
Approved: [Signature] Date of issue:						
Consultant Engineer: Mott Connell Ltd. 407 Hopwood Centre 100 Tsim Sha Tsui Road East, Hong Kong Tel No: 2528 5757 Fax No: 2527 1823						
Project: Investigation Assignment for Widening of Tois Highway / Failing Highway between Island House Interchange and Failing						
Title: Hourly NO₂ Concentration Isopleths at 6 mPD (Area 3)						
Scale: 1 : 6250 Contract No. / Unit Drawing No. 4.2.3 Rev. D						

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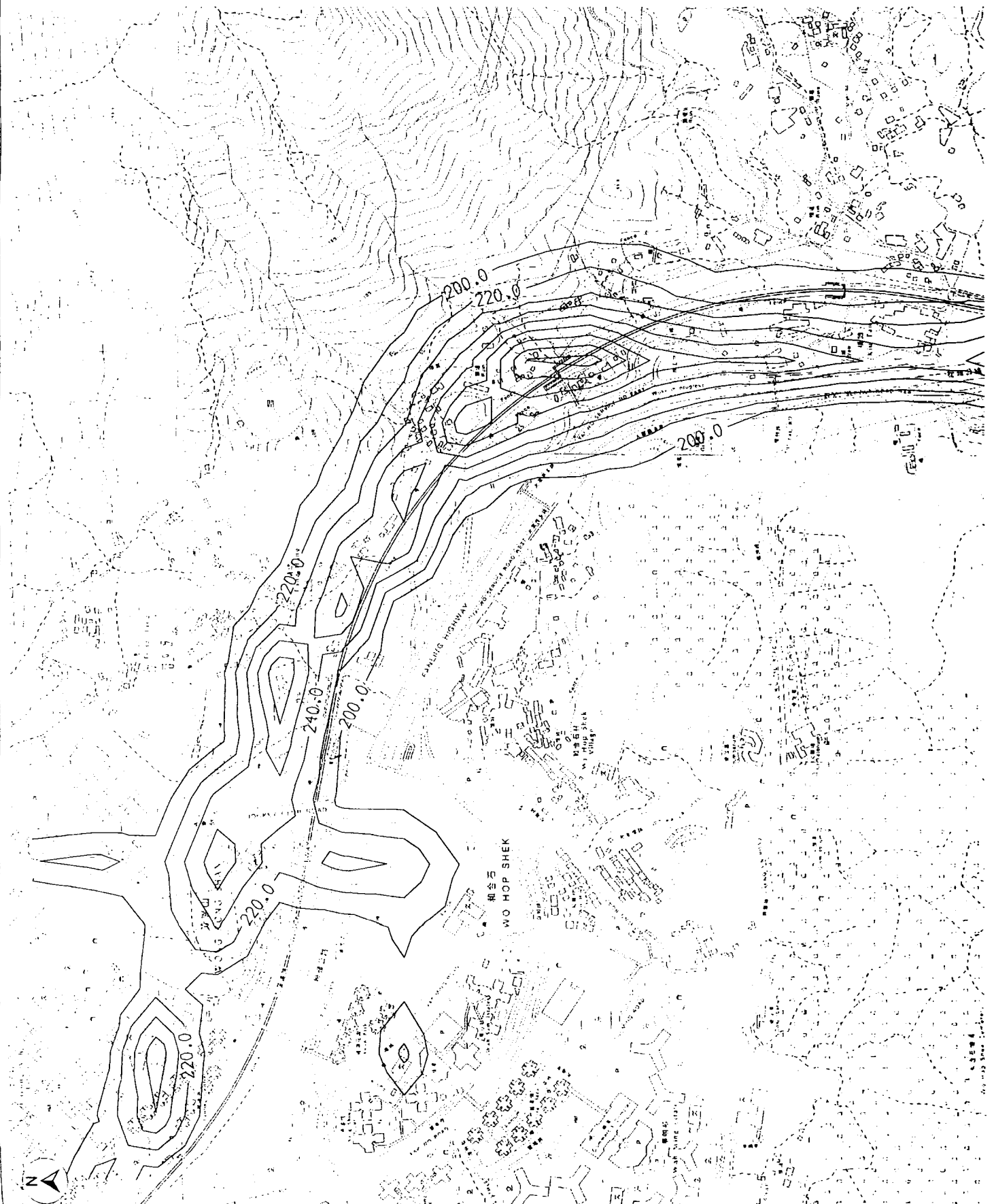
Legend:
Hourly NO₂ Concentration
Isopleths (µg/m³)
Hourly NO₂ AQO - 300 µg/m³



Rev.	Date	Dim.	Description	Drawn	Checked	Appr.
Designed:			Date: Apr 2000			Checked:
Drawn: Everage H.K. Ltd.			For M.C.I.			Date of Issue:
Client:						
The Government of the Hong Kong Special Administrative Region Highways Department Major Works Project Management Office						
Consulting Engineering Mott Connell Ltd. 40/F Hopewell Centre 183 Queen's Road East, Hong Kong Tel No. 2828 5757 Fax No. 2827 1823						
Project:						
Investigation Assessment for Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling						
Title:						
Hourly NO ₂ Concentration Isopleths at 6 mPD (Area 4)						
Mott Connell			Scale: 1:6250 Contract No. / Unit		Drawing No. 4.2.4 Rev. D	
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Drawing No

Legend:
 Hourly NO₂ Concentration
 Isopleths (µg/m³)
 Hourly NO₂ AQO - 300 µg/m³



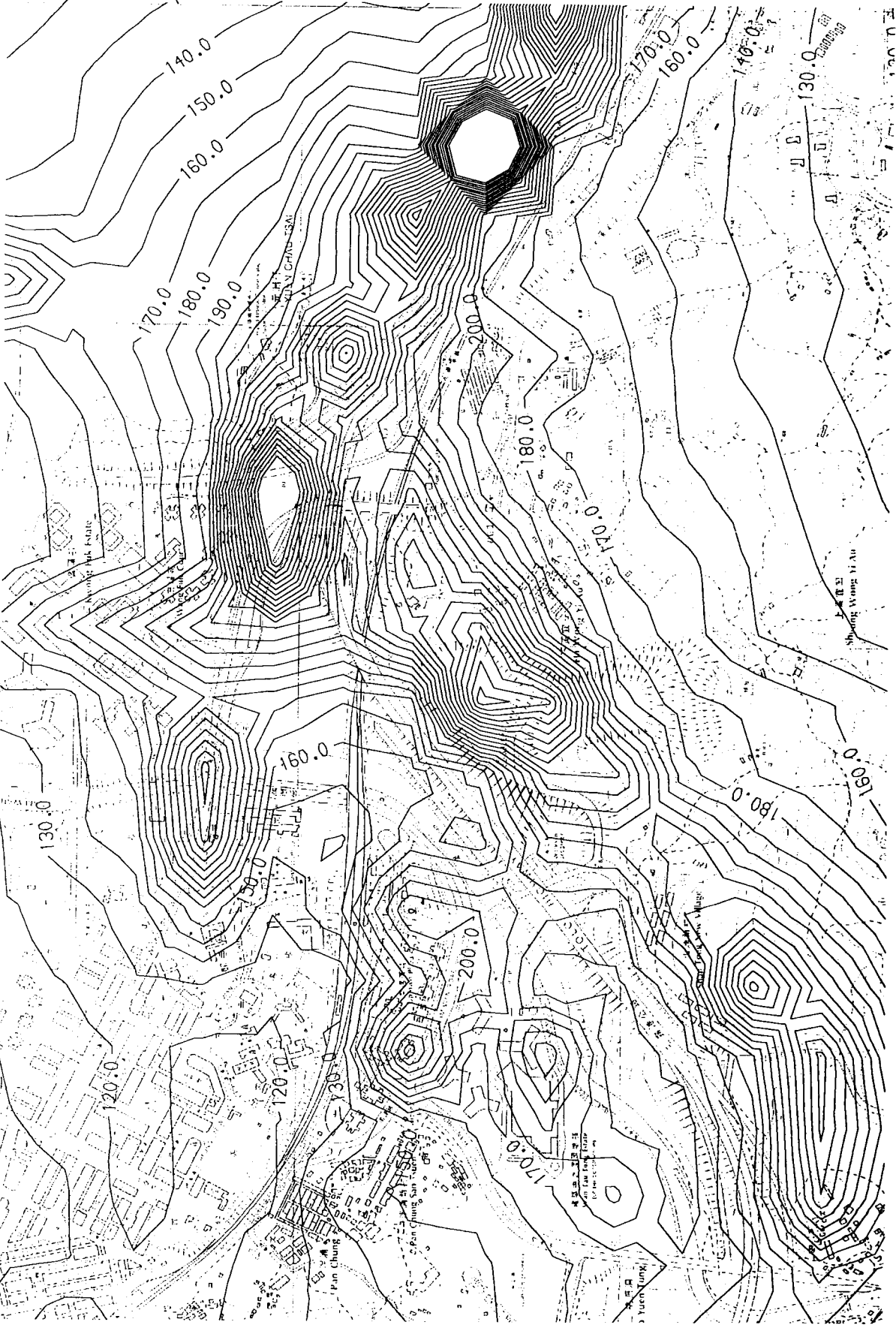
Rev.	Date	On	Description	Ign	Chu	Word
Design	Shirley N.S. Ltd	Dir.	Apr 2000	Checked		
Approved		For ACS	Date of Issue			
Client	The Government of the Hong Kong Special Administrative Region Highways Department Major Works Project Management Office					
Consulting Engineering	Mott Cornell Ltd. 40/F Hopewell Centre 183 Queen's Road East, Hong Kong Tel No. 2528 5757 Fax No. 2527 1623					
Project	Investigation Assignment for Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling					
Title						
Hourly NO ₂ Concentration Isopleths at 6 mPD (Area 5)						
Scale: 1: 6250						Rev. D
Mott Cornell						Contract No. / Unit
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Drawing No.


Legend:

Hourly NO₂ Concentration
Isopleths (µg/m³)
—300.0— Hourly NO₂ AQO - 300 µg/m³

大埔
TAI PO



Rev	Date	By	Description	Des.	Chk.	Appr.
Designat.	Date	Drawn	Checked			
Drawn: Enrica H.K. Ltd.	Date: Apr 2010	Checked:				
Approved:	For I.C.T.	Date of Issue:				

 The Government of the Hong Kong
 Special Administrative Region
 Highways Department
 Major Works Project Management Office
 Consulting Engineering
Mott Connell Ltd.
 40/F Hopewell Centre
 183 Queen's Road East,
 Hong Kong
 Tel No. 2828 5737
 Fax No. 2827 1823

Project: Investigation Assignment for Widening of
 Tolo Highway / Failing Highway between
 Island House Interchange and Failing
 The:

Hourly NO₂ Concentration
 Isopleths at 35 mPD (Area 1)

Scale	1:8250
Contract No./Unit	
Drawing No.	4.3.1
Rev.	D

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Drawing No. _____

Legend:

Hourly NO₂ Concentration

—300.0— Isopleths (µg/m³)

Hourly NO₂ AQO - 300 µg/m³

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Design:	Drawn:	Checked:			
Drawn: Ericson H. K. Ltd.	Date: Apr 2000	Checked:			
Approved:	For M.C.L.	Date of Issue:			

Client:

The Government of the Hong Kong
Special Administrative Region
Highways Department
Major Works Project Management Office

Consulting Engineers

**Mott
Corneil** Ltd.

40/F. Hopewell Centre
183 Queen's Road East
Hong Kong

Tel No. 2828 5757
Fax No. 2827 8823

Project

Investigation Assignment for Widening of
Tolo Highway / Feinting Highway between
Island House Interchange and Feinting

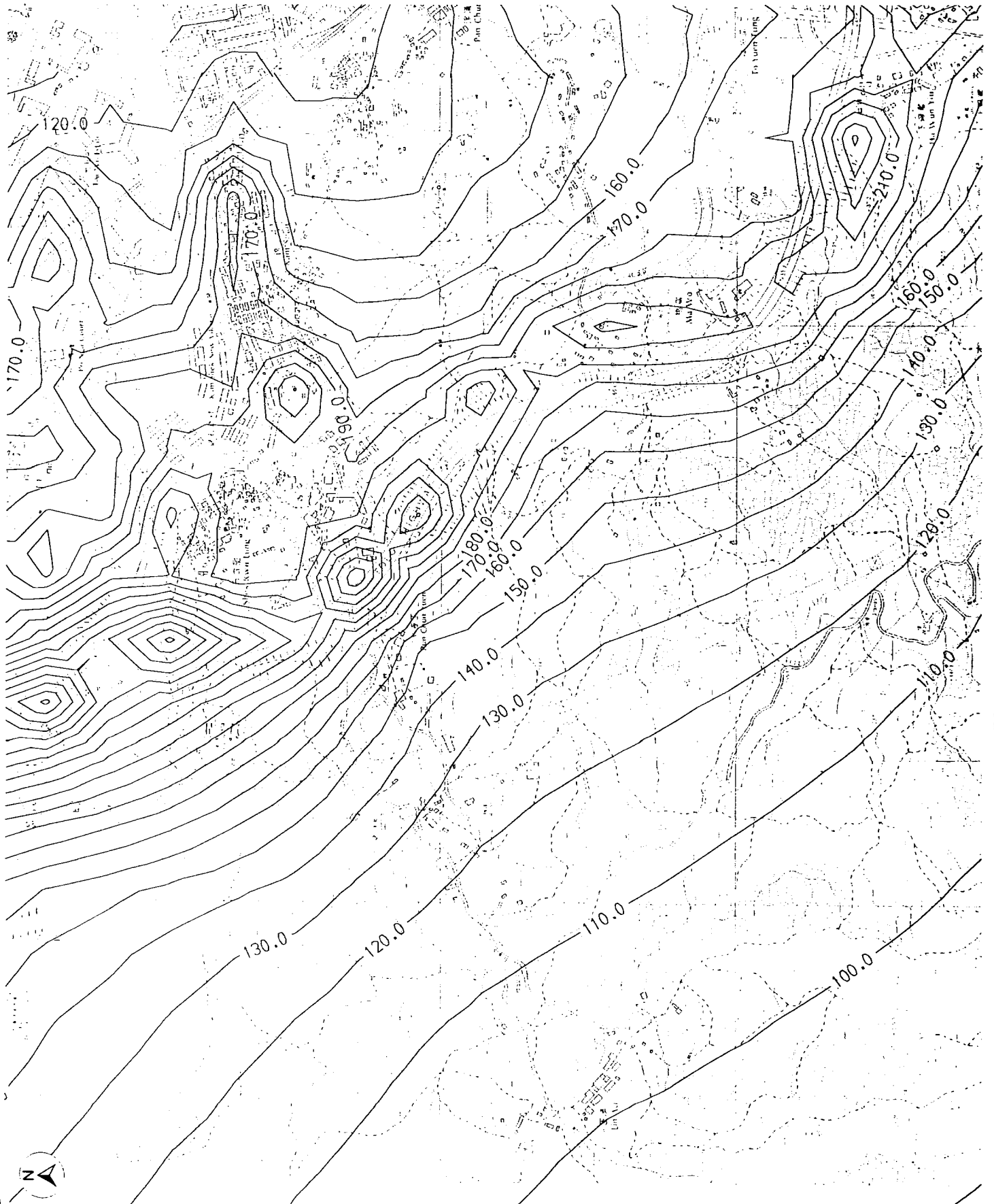
Scale: 1 : 6250

Contract No. / Unit

Drawing No. 4.3.2

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Legend:

Hourly NO₂ Concentration
Isopleths (µg/m³)
Hourly NO₂ AQO - 300 µg/m³

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2	10/10/00	Issue for M.C.T.				

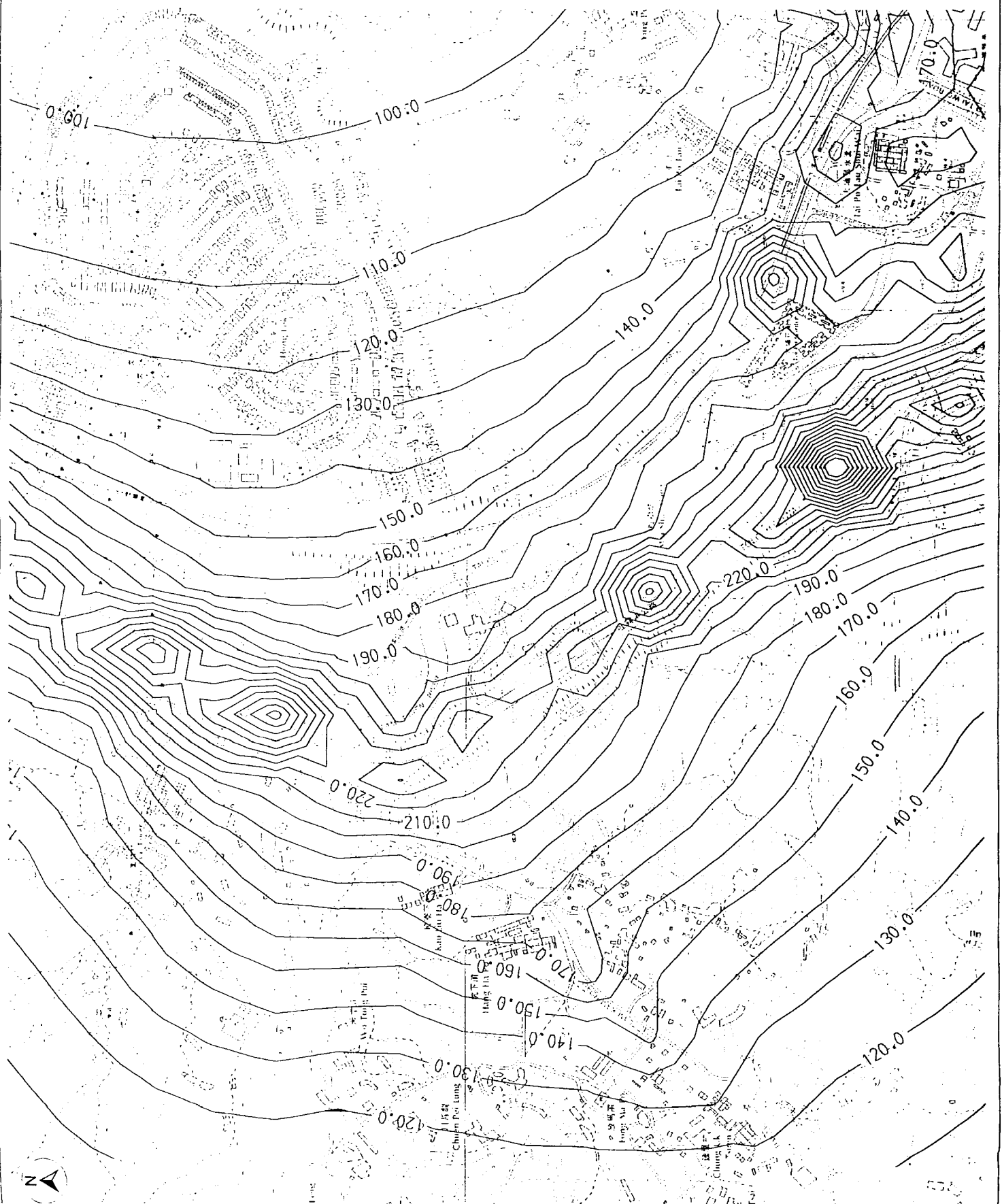
The Government of the Hong Kong
Special Administrative Region
Highways Department
Major Works Project Management Office

Mott Connell Ltd.
Consulting Engineering
40/F Hopewell Centre
183 Queen's Road East
Hong Kong
Tel No. 2825 5757
Fax No. 2827 0623

Project: Investigation Assignment for Widening of
Tolo Highway / Fanning Highway between
Island House Interchange and Fanning

Title: Hourly NO₂ Concentration
Isopleths at 35 mPD (Area 3)

Scale: 1:6250	Contract No./Unit	Rev
Mott Connell	Drawing No. 4.3.3	D



Drawing No

Legend:

Hourly NO₂ Concentration
Isopleths (µg/m³)
—300.0—
Hourly NO₂ AQO - 300 µg/m³

Rev	Date	By	Description	Dep.	Chk.	Appd.

Designed: _____ Date: _____
 Drawn: Envision H.K. Ltd. Date: Apr 2000 Checked: _____
 Approved: _____ For A/C: _____ Date of Issue: _____

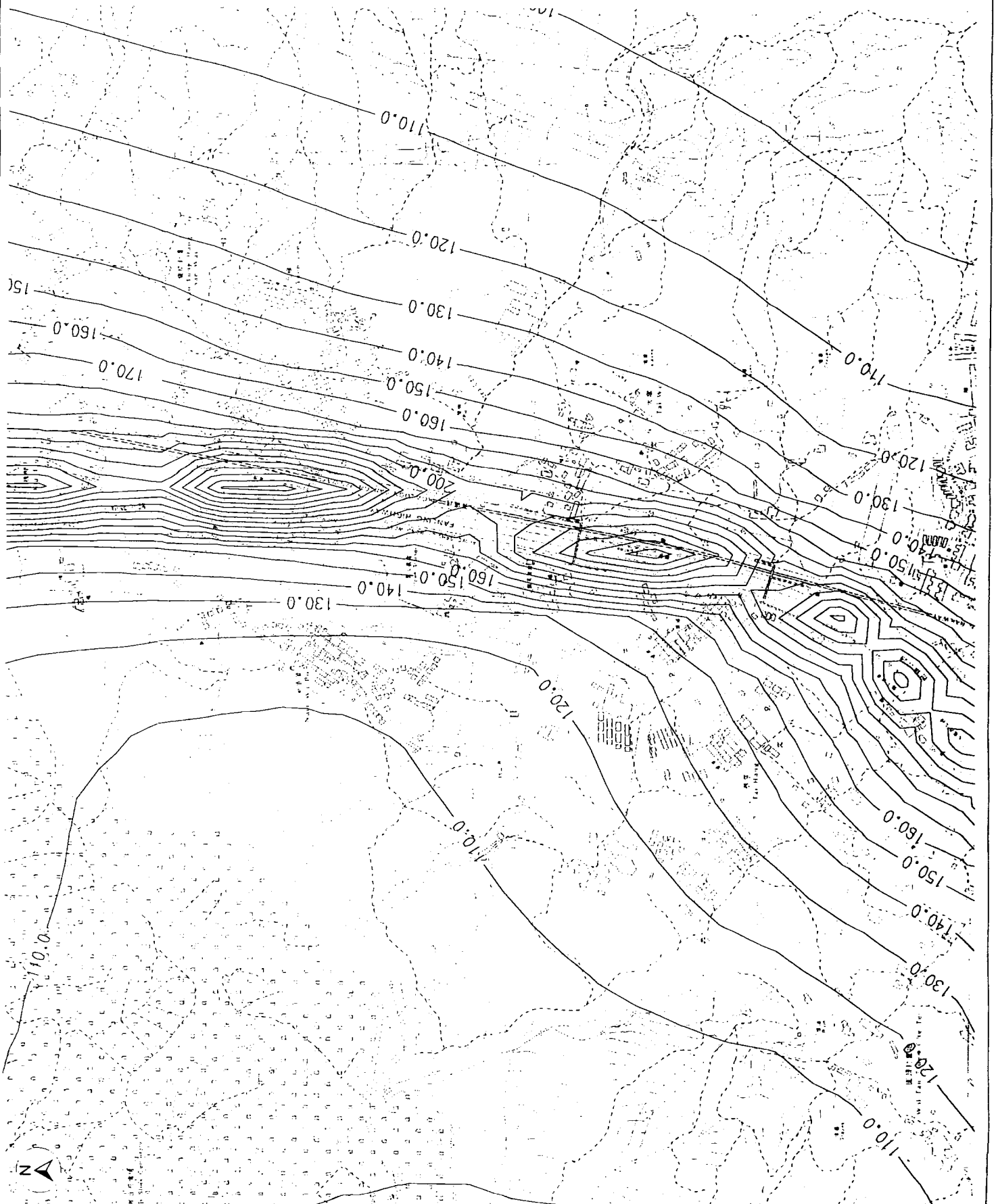
The Government of the Hong Kong
 Special Administrative Region
 Highways Department
 Major Works Project Management Office

Quantity Engineering
Mott Connell Ltd.
 40/F Hopewell Centre
 183 Queen's Road East,
 Hong Kong
 Tel No. 2828 5757
 Fax No. 2827 1823

Project: Investigation Assignment for Widening of
 Tolo Highway / Fanning Highway between
 Island House Interchange and Fanning
 The

Hourly NO₂ Concentration
 Isopleths at 35 mPD (Area 4)

Scale: 1 : 6250
 Contract No./Unit
Mott Connell
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 Rev. D
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Legend:
 Hourly NO₂ Concentration
 Isoplets (µg/m³)
 Hourly NO₂ AQO - 300 µg/m³

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Designed:	Date:	Drawn:	Checked:			
Drawn: Enrica H.K. Ltd.	Date: Apr 2009	Drawn: Apr 2009	Checked:			
Approved:	Date:	For A/C:	Date of issue:			
Checked:						

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 Highways Department
 Major Works Project Management Office

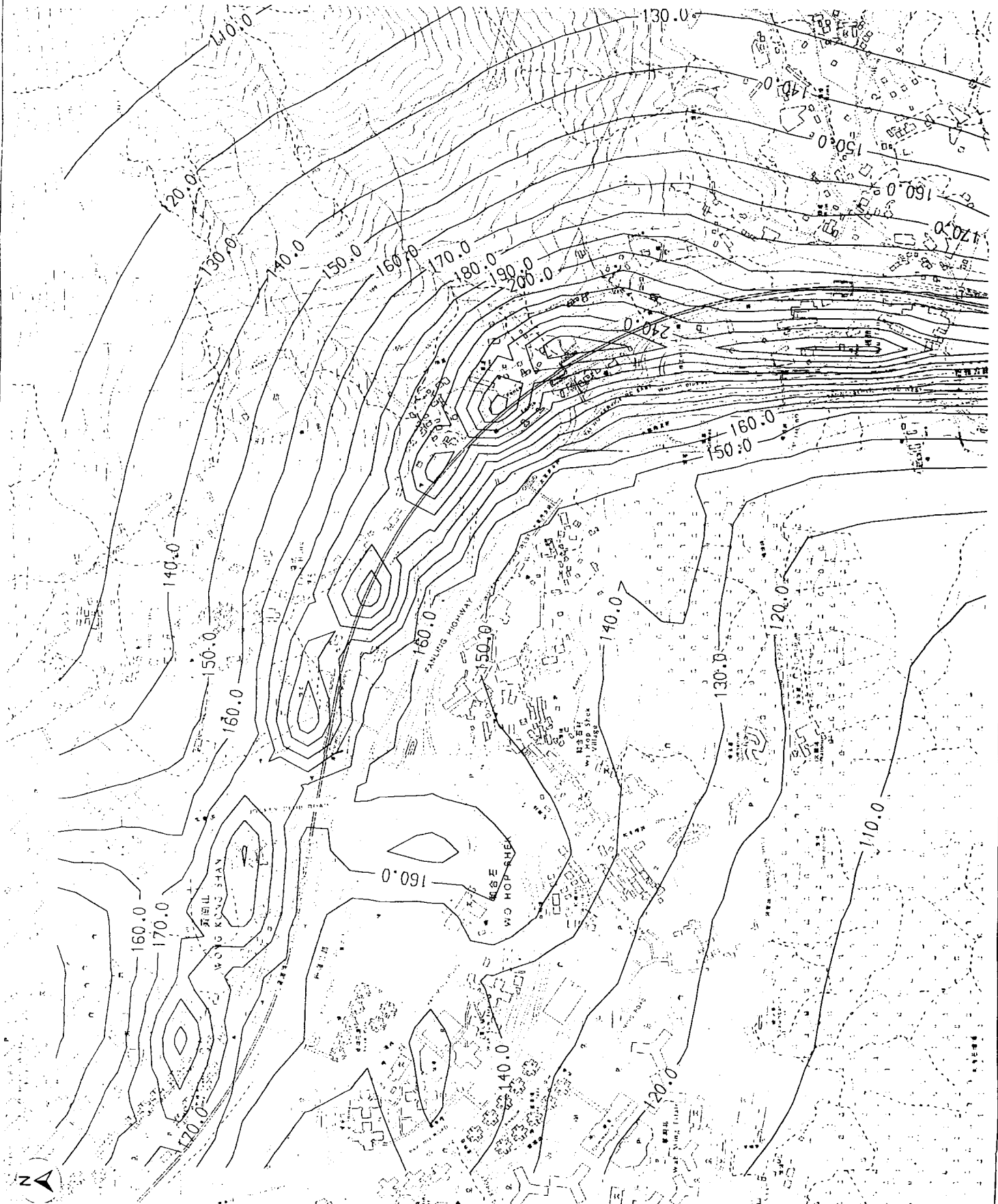
Mott
 Mott
 Connell
 Ltd.
 Consulting Engineers
 40/F Hopwood Centre
 183 Queen's Road East,
 Hong Kong
 Tel No: 2828 8757
 Fax No: 2827 1823

Project
 Investigation Assignment for Widening of
 Tolo Highway / Failing Highway between
 Island House Interchange and Fanning

Hourly NO₂ Concentration
 Isoplets at 35 MPD (Area 5)

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 Contract No. / Unit
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Legend:

Hourly NO₂ Concentration
Isopleths (µg/m³)
Hourly NO₂ AQO - 300 µg/m³

Rev	Date	Dim.	Description	By	Chk.	Appr.

Designed: Date: Apr 2000 Checked:

Drawn: Entwor H.K. Ltd. Date: Apr 2000 Checked:

Approved: For MCL Date of Issue:

Client: The Government of the Hong Kong Special Administrative Region Highways Department Major Works Project Management Office

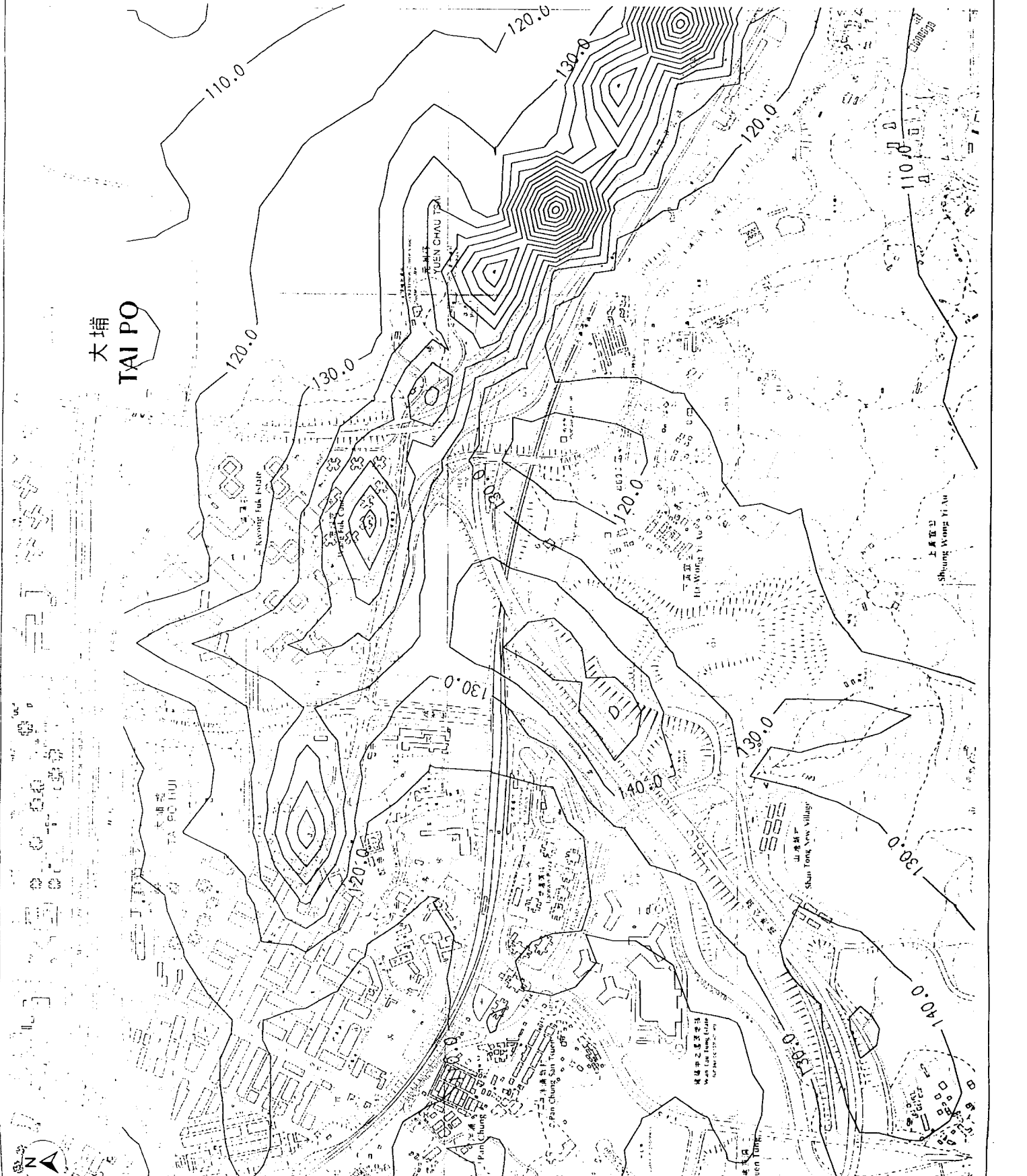
Consulting Engineers: Mott Connell Ltd. 40F Hopwood Centre 183 Queen's Road East, Hong Kong Tel No. 2525 5757 Fax No. 2527 1823

Project: Investigation Assessment for Widening of Toa Highway / Failing Highway between Island House Interchange and Failing

1/20

Hourly NO₂ Concentration Isopleths at 64 mPD (Area 1)

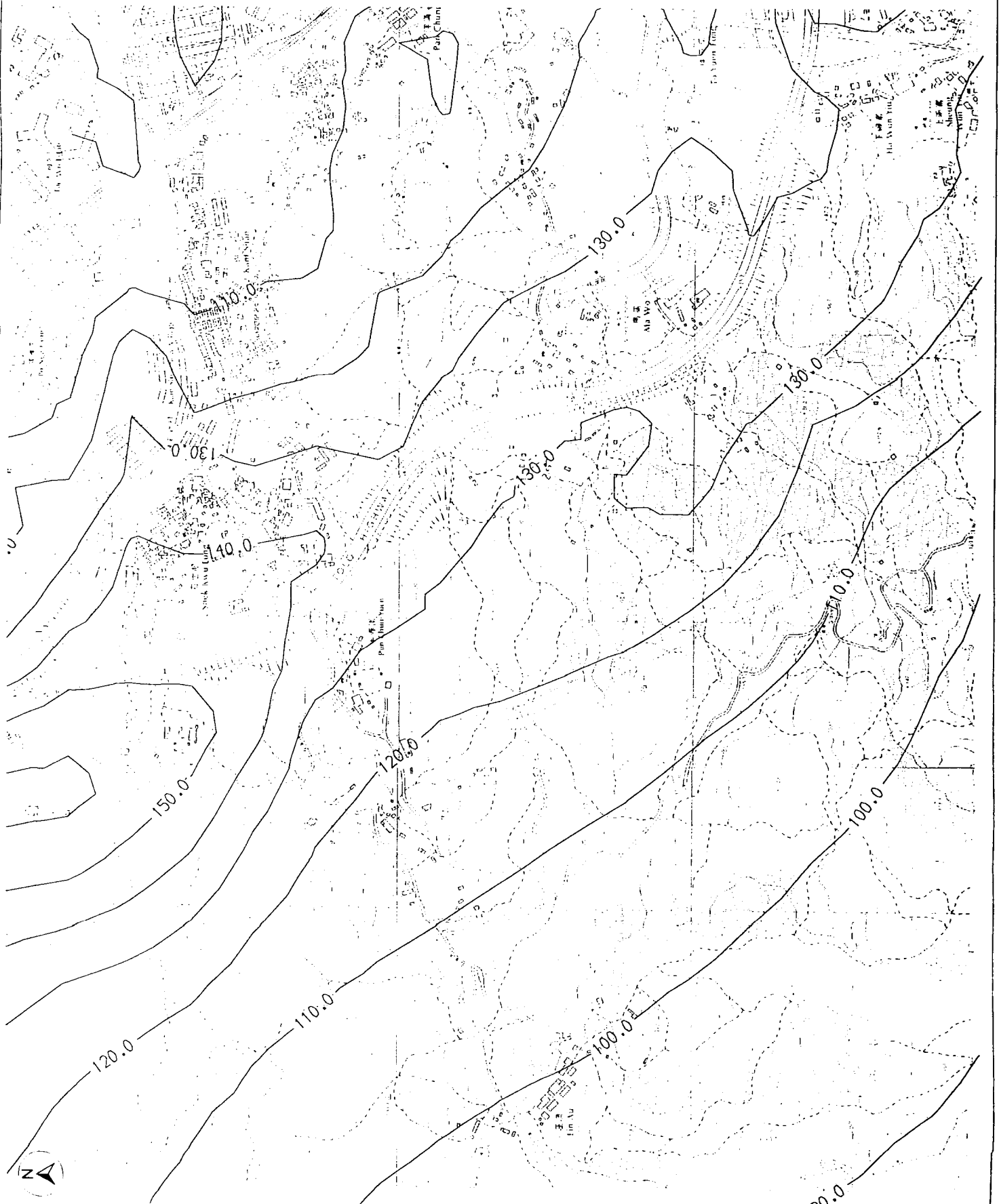
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Rev. D
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Legend:

Hourly NO₂ Concentration
isopleths ($\mu\text{g}/\text{m}^3$)
Hourly NO₂ AQO - $300 \mu\text{g}/\text{m}^3$



Rev.	Date	By	Description	Drn.	Chk.	Appd.
Development:	Engineer H.E. Ltd.	Date:	Apr 2000	Checked:		
Drawn:	Engineer H.E. Ltd.	Date:	Apr 2000	Checked:		
Approved:		For M.C.S.	Date of Issue:			
Client:	The Government of the Hong Kong Special Administrative Region Highways Department Major Works Project Management Office					
Consulting Engineering:	Mott Connell Ltd. 40/F Hopewell Centre 183 Queen's Road East Hong Kong Tel No. 2828 5757 Fax No. 2827 1823					
Project:	Investigation Assignment for Widening of Tolo Highway / Fencing Highway between Island House Interchange and Fencing					
Scale:	1 : 6250					
Contract No. / Unit:						
Drawing No.	4.4.2					
Rev.	D					




Drawing No.

Legend:

Hourly NO₂ Concentration
Isoleths (µg/m³)
Hourly NO₂ AQO - 300 µg/m³

Rev.	Date	By	Description	Drn.	Chk.	App'd.
Design	2008.04.10	H.K.	Design	APF	2008	Checked
Approved			For I.C.L.			Date of Issue


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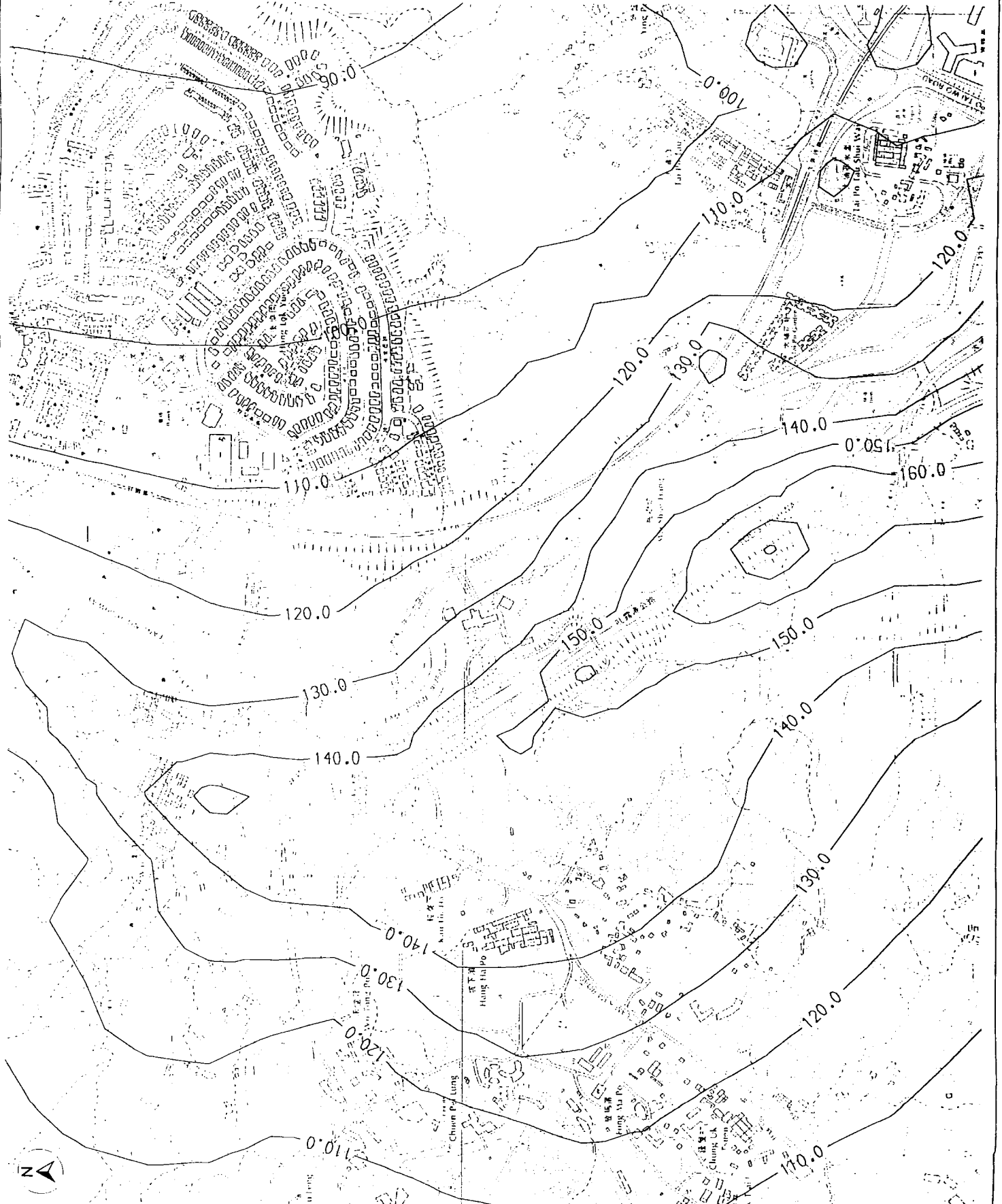
Consulting Engineering
**Mott
 MacDonald**
 40/F Hopewell Centre
 118 Queen's Road East,
 Hong Kong
 Tel No. 2828 9757
 Fax No. 2827 1823

Project
 Investigation Assignment for Widening of
 Tolo Highway / Fanning Highway between
 Island House Interchange and Fanning

Title
**Hourly NO₂ Concentration
 Isoleths at 64 MPD (Area 3)**

Scale	1 : 6250
Contract No. / Unit	
Drawing No.	4.4.3
Rev.	D

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Drawing No.

Legend:

- Hourly NO₂ Concentration Isoplaths (4g/m³)
- Hourly NO₂ AQO - 300 µg/m³

Rev.	Date	Desc.	By	Chk.	Appd.

Drawn: Enrica H.K. Ltd. Date: Apr 2000 Checked:

Approved: For A/C: Date of Issue:

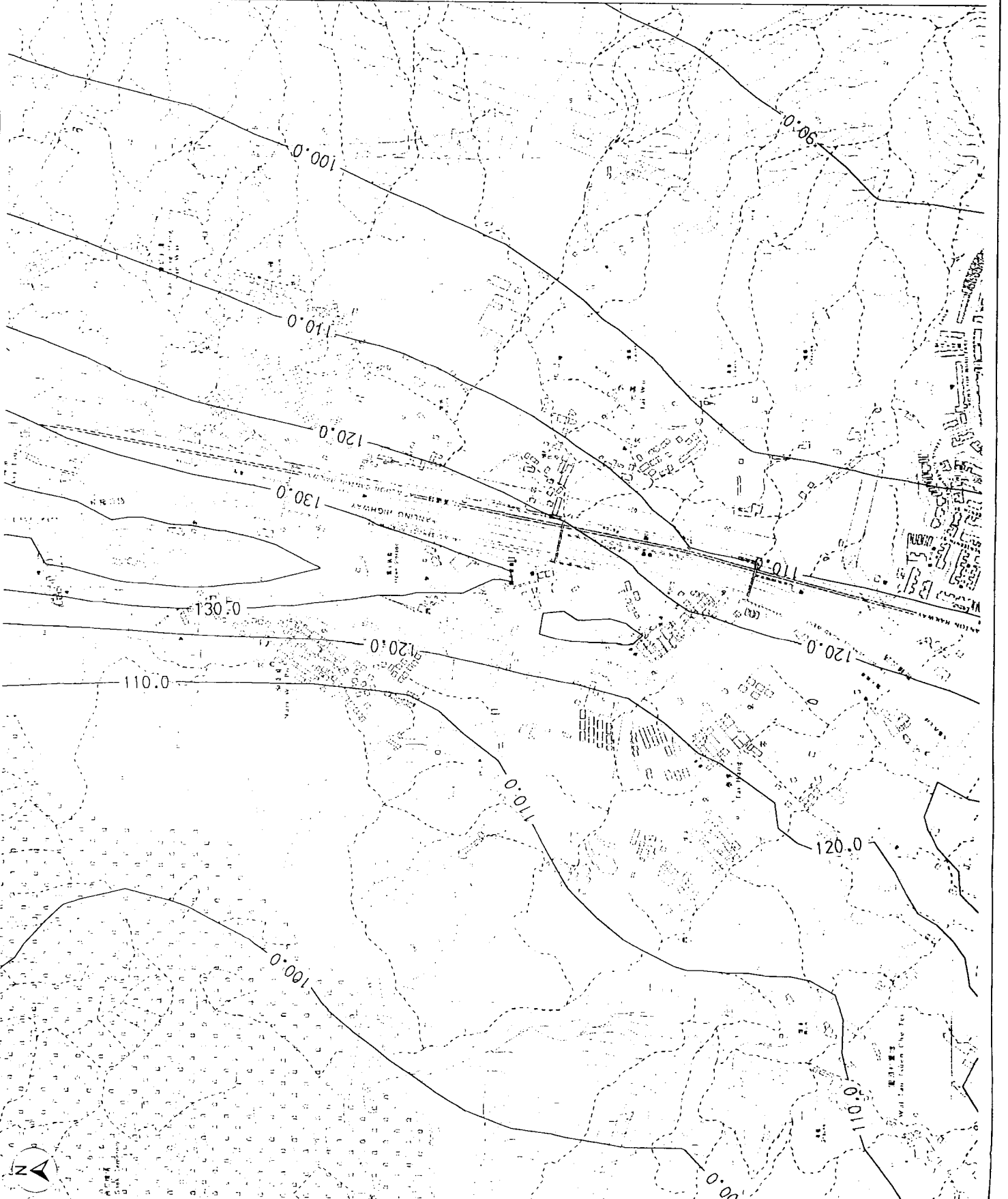
Client: The Government of the Hong Kong Special Administrative Region
Highways Department
Major Works Project Management Office

Consulting Engineer: Mott Connell Ltd.
40/F Hopewell Centre
183 Queen's Road East,
Hong Kong
Tel No. 2628 5757
Fax No. 2827 1823

Project: Investigation/Assignment for Widening of Tolo Highway / Fanning Highway between Island House Interchange and Fanning

Scale: 1:6250
Contract No. / Unit
Drawing No. 4.4.4
Rev. D

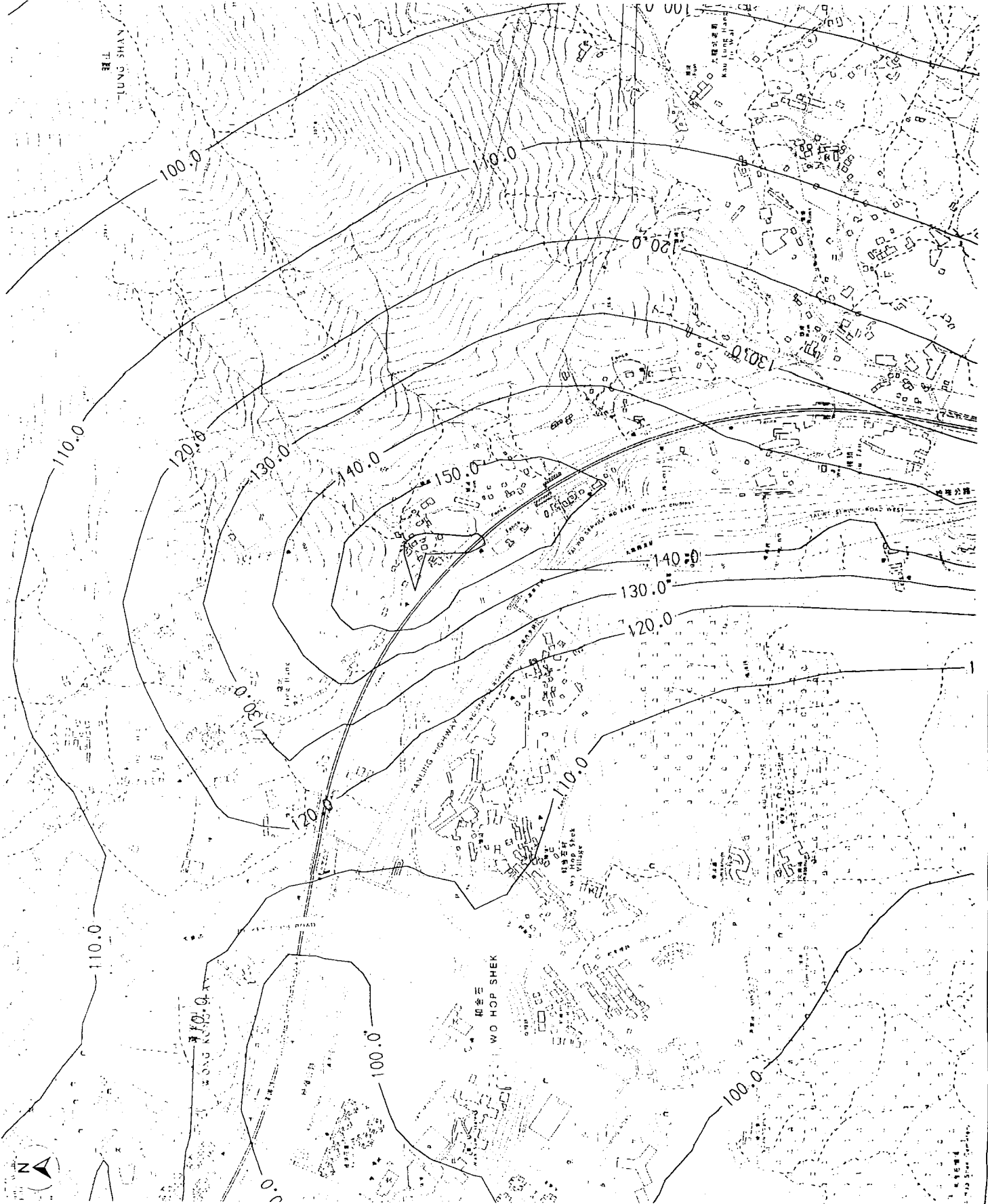
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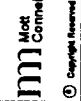
Drawing No.

Legend:

Hourly NO₂ Concentration
Isopleths (µg/m³)
—300.0—
Hourly NO₂ AQO - 300 µg/m³



Rev.	Date	Desc.	Drawn	Checked	By	Chk.	App'd
Design:		Environ H.K. Ltd.	Date:	Apr 2000	Checked:		
Approved:			For M.C.S.	Date of Issue:			
Client:		The Government of the Hong Kong Special Administrative Region Highways Department Major Works Project Management Office					
Consulting Engineering:		Mott Cornell Ltd. 40/F Hopewell Centre 183 Queen's Road East, Hong Kong Tel No. 2828 8757 Fax No. 2827 8223					
Project:		Investigation Assignment for Widening of Tolo Highway / Fanning Highway between Island House Interchange and Fanning					
Title:		Hourly NO ₂ Concentration Isopleths at 64 mPD (Area 5)					
Scale:		1 : 6250					
Contract No. / Unit:							
Drawing No.:		4.4.5					
Rev.:		D					



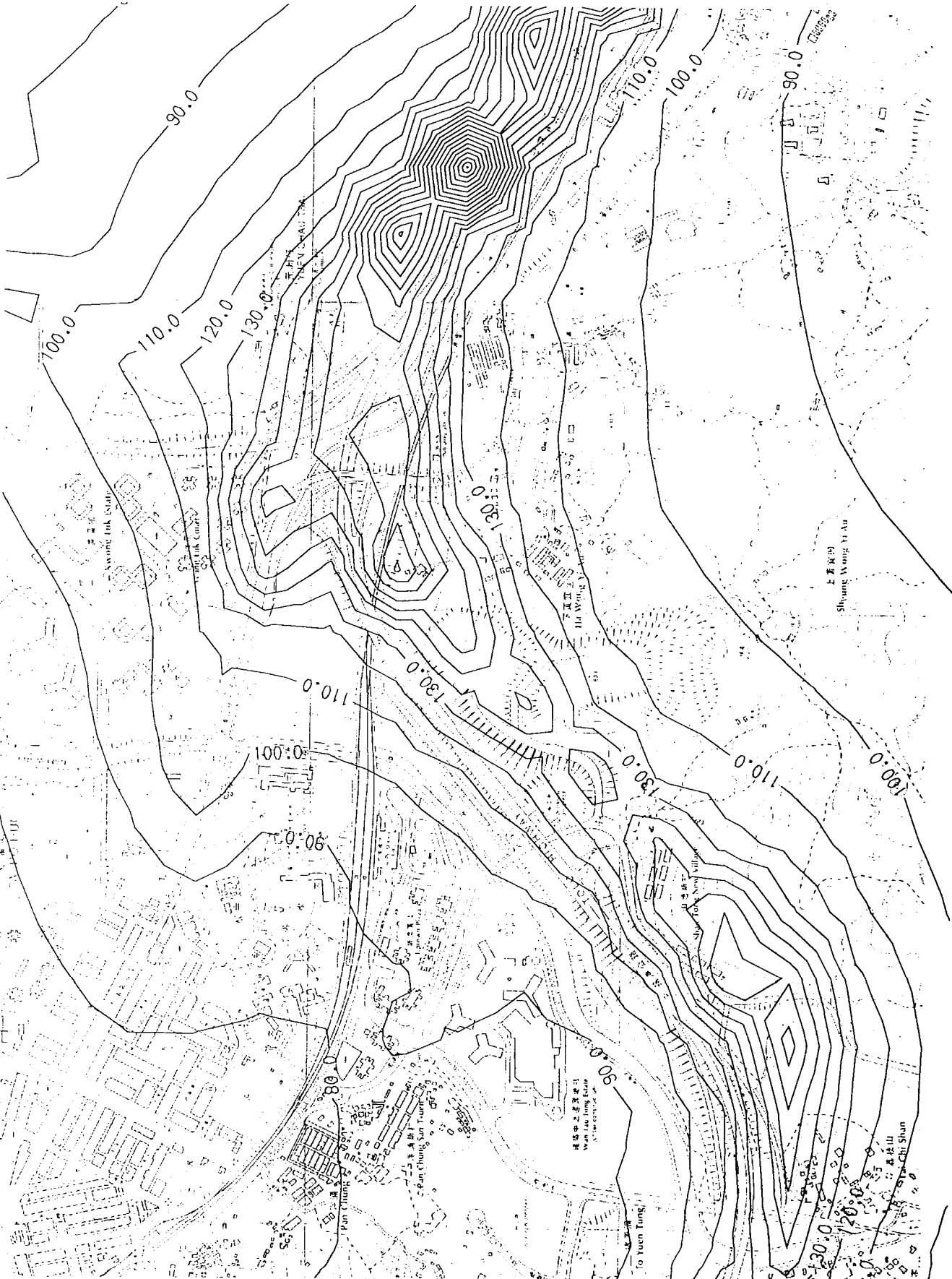
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Drawing No.

Legend:

—100.0— Daily RSP Concentration
Isopleths ($\mu\text{g}/\text{m}^3$)
Daily RSP AQO - 180 $\mu\text{g}/\text{m}^3$

大埔 TAI PO

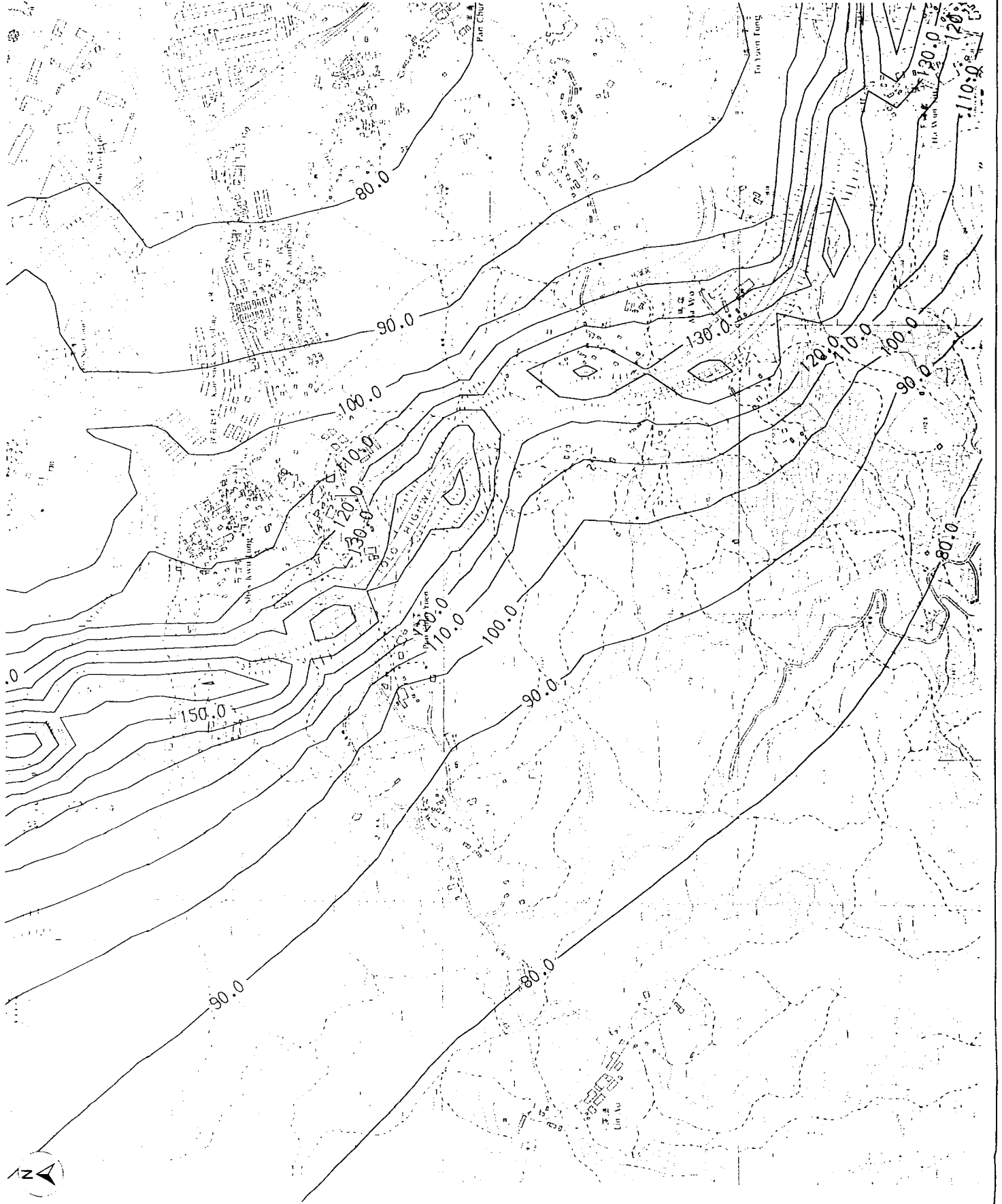


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Drawn: Enayee H.K. Ltd.	Date: Apr 2006	Checked:	For M.O.	Date of Issue:		
Client: The Government of the Hong Kong Special Administrative Region Highways Department Major World Project Management Office						
Consulting Engineers: Mott Connell Ltd. 40/F Hopwood Centre 183 Queen's Road East, Hong Kong Tel No. 2828 9737 Fax No. 2827 8623						
Project: Investigation Assignment for Widening of Tsoi Highway/Fanning Highway between Island House Interchange and Fanning The						
Scale: 1 : 6250						Sheet: 1 of 1
Contract No./Unit						Rev.:
Drawing No.						4.51
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Drawing No.

Legend:

- 100.0— Daily RSP Concentration Isoleths ($\mu\text{g}/\text{m}^3$)
- Daily RSPAQO - 180 $\mu\text{g}/\text{m}^3$

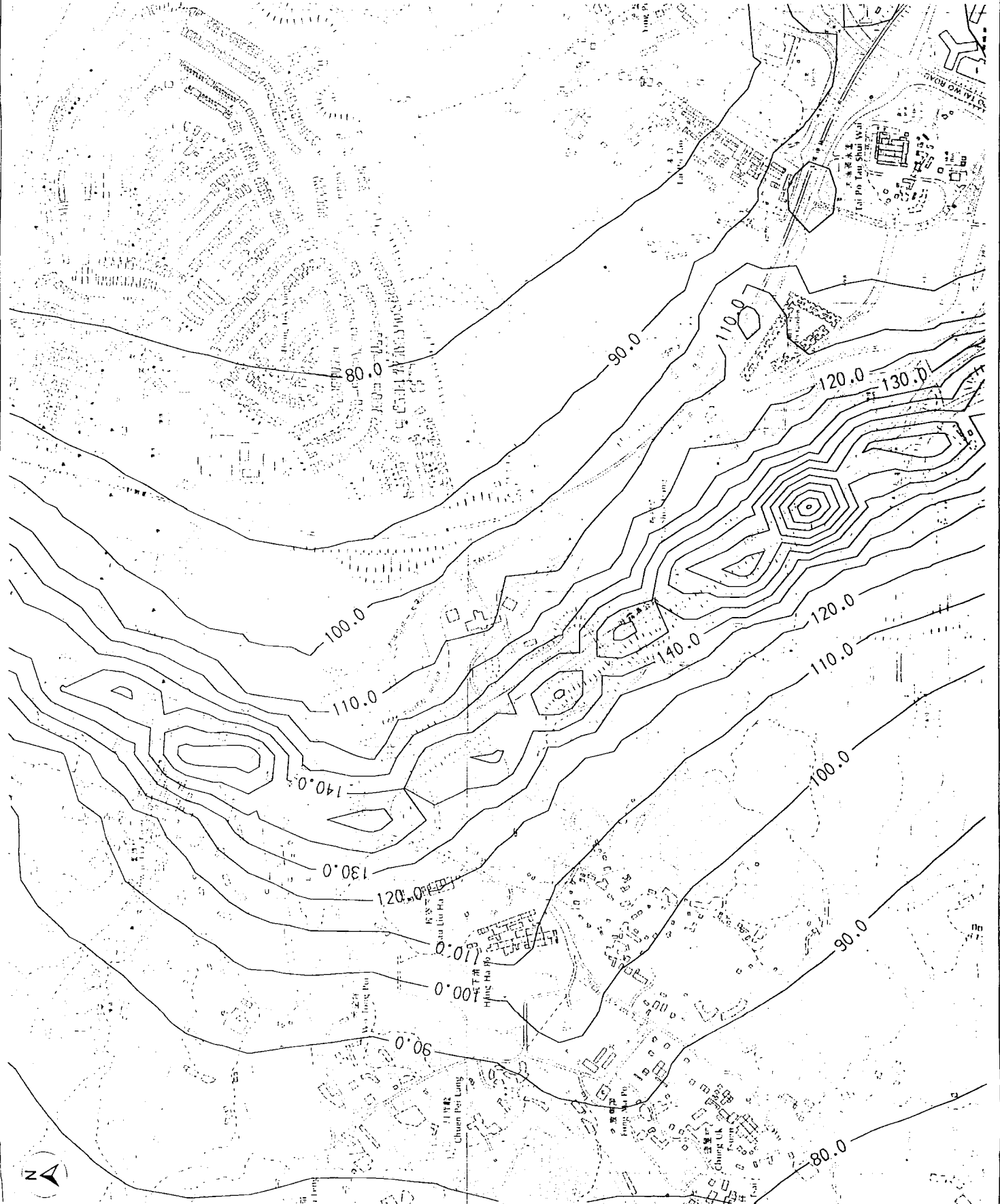


Rev.	Date	Desc.	Description	Dgn.	Chk.	App'd.
Designat.	Date:	Apr 2000	Checked:			
Drawn:	Environ H.K. Ltd.	Date:	Apr 2000	Checked:		
Approved:	For ABC:	Date of Issue:				
Client:	<p>The Government of the Hong Kong Special Administrative Region Highways Department</p> <p>Mott Mott Connell</p> <p>Major Works Project Management Office</p>					
Consulting Engineer:	<p>Mott Connell Ltd. 407 Hopewell Centre Hopewell Road East, Hong Kong Tel No. 2828 8257 Fax No. 2827 1823</p>					
Project:	Investigation Assignment for Widening of Tolo Highway / Fanling Highway between Island House interchange and Fanling					
Title:	Daily RSP Concentration Isoleths at 6 mPD (Area 2)					
Scale:	1 : 6250					
Contract No. / Unit:	Mott Connell					
Drawing No.:	4.5.2					
Per.:	D					
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Legend:

- Daily RSP Concentration Isopleths ($\mu\text{g}/\text{m}^3$)
- Daily RSP AQO - $180 \mu\text{g}/\text{m}^3$



Rev.	Date	By	Description	On	Off	April
Designed:	Drawn:	Checked:	Date:	Apr	2006	Checked:
Drawn: Einar H. K. Ltd.	Date: Apr 2006	Checked:	For M.C.L.	Date of issue:		

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 Highways Department
 Major Works Project Management Office

Consulting Engineering
Mott Cornell Ltd.
 40/F Hopewell Centre
 183 Queen's Road East
 Hong Kong
 Tel No. 2828 9757
 Fax No. 2827 1823

Project: Investigation Assignment for Widening of
 Tolo Highway / Feinting Highway between of
 Island House Interchange and Feinting

**Daily RSP Concentration
 Isopleths at 6 mPD (Area 3)**

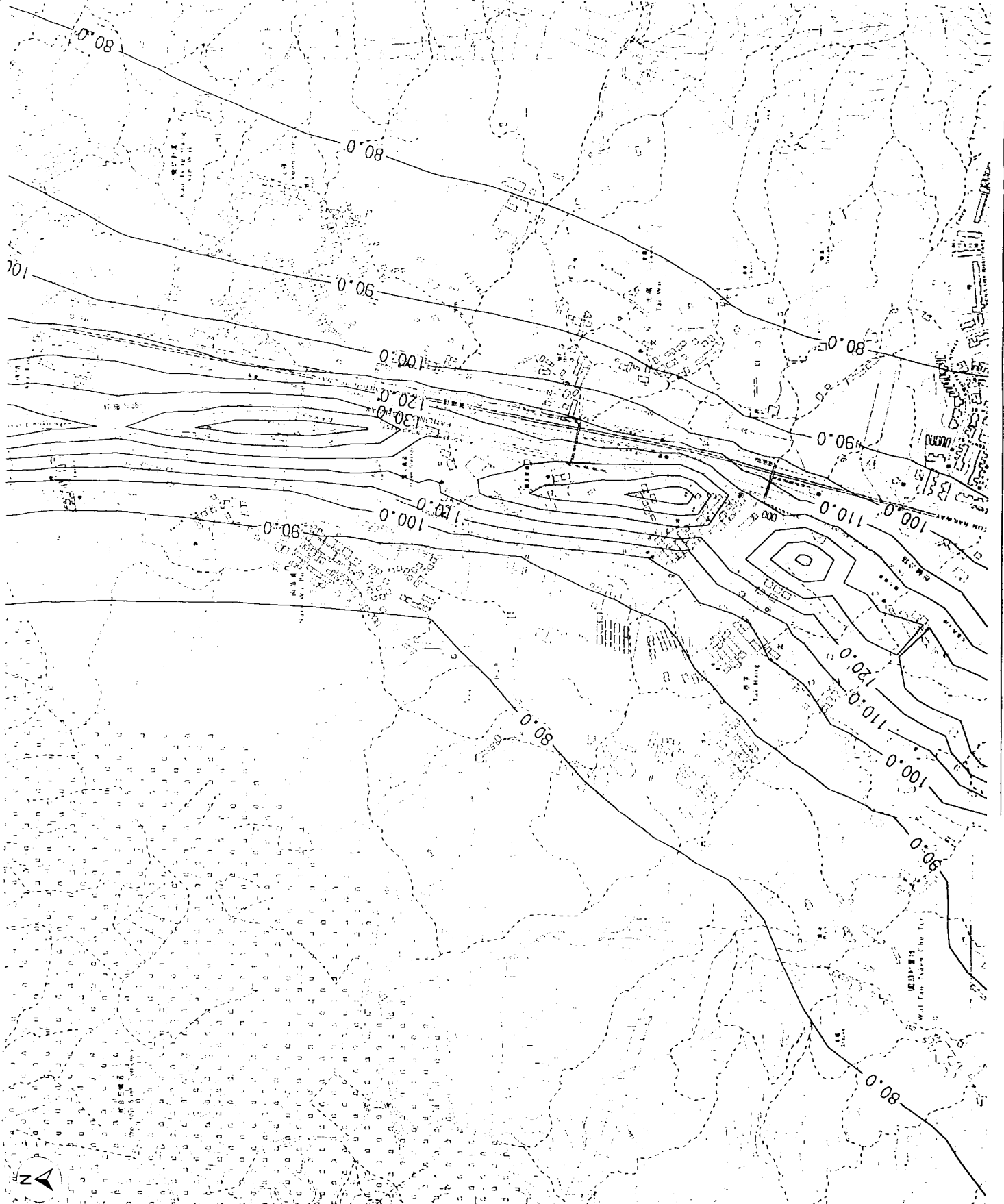
Scale: 1 : 6250	Rev. D
Contract No. / Unit	4.5.3
Drawing No.	
Copyright Reserved	

Drawing No.

Legend:

- 100.0 — Daily RSP Concentration isopleths ($\mu\text{g}/\text{m}^3$)
- Daily RSP AQO - 180 $\mu\text{g}/\text{m}^3$

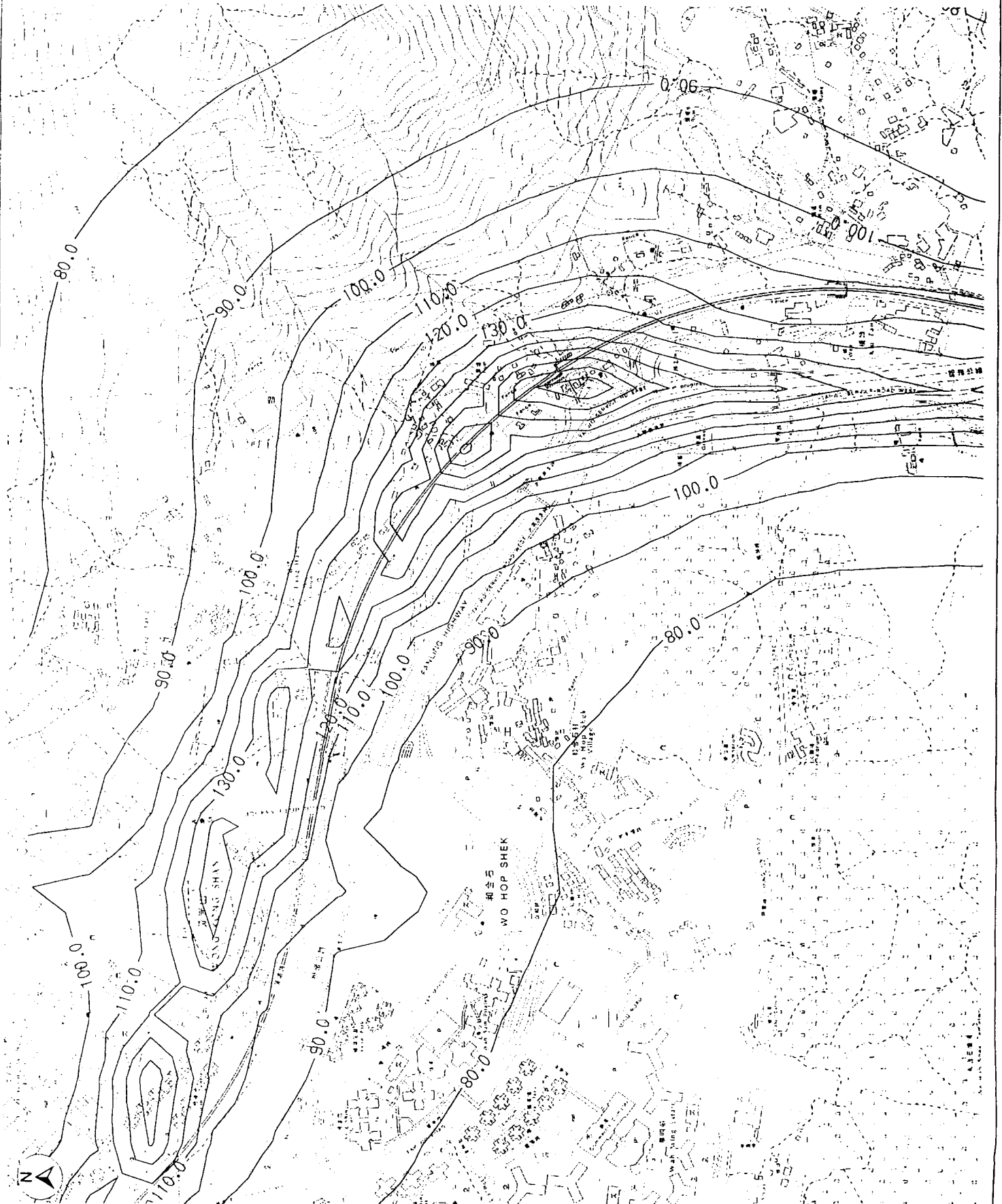
Rev.	Date	Desc.	Design	Check	Appr.
Drawn: Eric H.K. Liu			Date: Apr 2000	Checked:	
Approved:			For M.C.I.	Date of Issue:	
<p>Client</p> <p>The Government of the Hong Kong Special Administrative Region Highways Department Major Works Project Management Office</p> <p>Consulting Engineering</p> <p>Mott Connell Ltd. 40/F Hopewell Centre 183 Queen's Road East, Hong Kong</p> <p>Project</p> <p>Investigation Assignment for Widening of Tsao Highway/Fanning Highway between Island House Interchange and Fanning</p>					
Tel No. 2624 5757			Fax No. 2827 1823		
Scale: 1: 6250			Contract No. / Unit		
Mott Connell			Drawing No. 4.5.4		
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Drawing No.

Legend:

Daily RSP Concentration
Isopleths ($\mu\text{g}/\text{m}^3$)
Daily RSP AQO - 180 $\mu\text{g}/\text{m}^3$



Rev.	Date	By	Description	Desig.	Chk.	Appr.
Drawn: Eivora H.K. Ltd.		Date: Apr 2006		Checked:		
		For MCL		Date of Issue:		
<p>Client: The Government of the Hong Kong Special Administrative Region Highways Department Major Works Project Management Office</p> <p>Consulting Engineering: Mott Connell Ltd. 405 Hoi Yee Centre 183 Queens Road East, Hong Kong Tel No. 2828 9757 Fax No. 2827 1823</p> <p>Project: Investigation Assignment for Widening of Tolo Highway / Fanning Highway between Island House Interchange and Fanning</p> <p>Title: Daily RSP Concentration Isopleths at 6 mPD (Area 5)</p>						
<p>Mott Connell</p>		<p>Scale: 1: 6250 Contract No. / Unit</p>		<p>Drawing No.</p>		<p>Rev.</p>
<p>Copyright Reserved</p>		<p>4.5.5</p>		<p>D</p>		

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Legend:

—100.0— Daily RSP Concentration Isoplets ($\mu\text{g}/\text{m}^3$)

Daily RSP AQO - 180 $\mu\text{g}/\text{m}^3$

Rev.	Date	Description	Des.	Chk.	Appr.
Designed:	Date:	Checked:			
Drawn: Enrica H.K. Ltd.	Date: Apr 2000	Checked:			
Approved:	Date:	For MCL:	Date of issue:		

Contract Authority
The Government of the Hong Kong Special Administrative Region
 Highways Department
 Major Works Project Management Office

Contractor
Mott Connell Ltd.
 107 Hopewell Centre
 100 Nathan's Road East
 Hong Kong
 Tel No. 2523 9757
 Fax No. 2527 1823

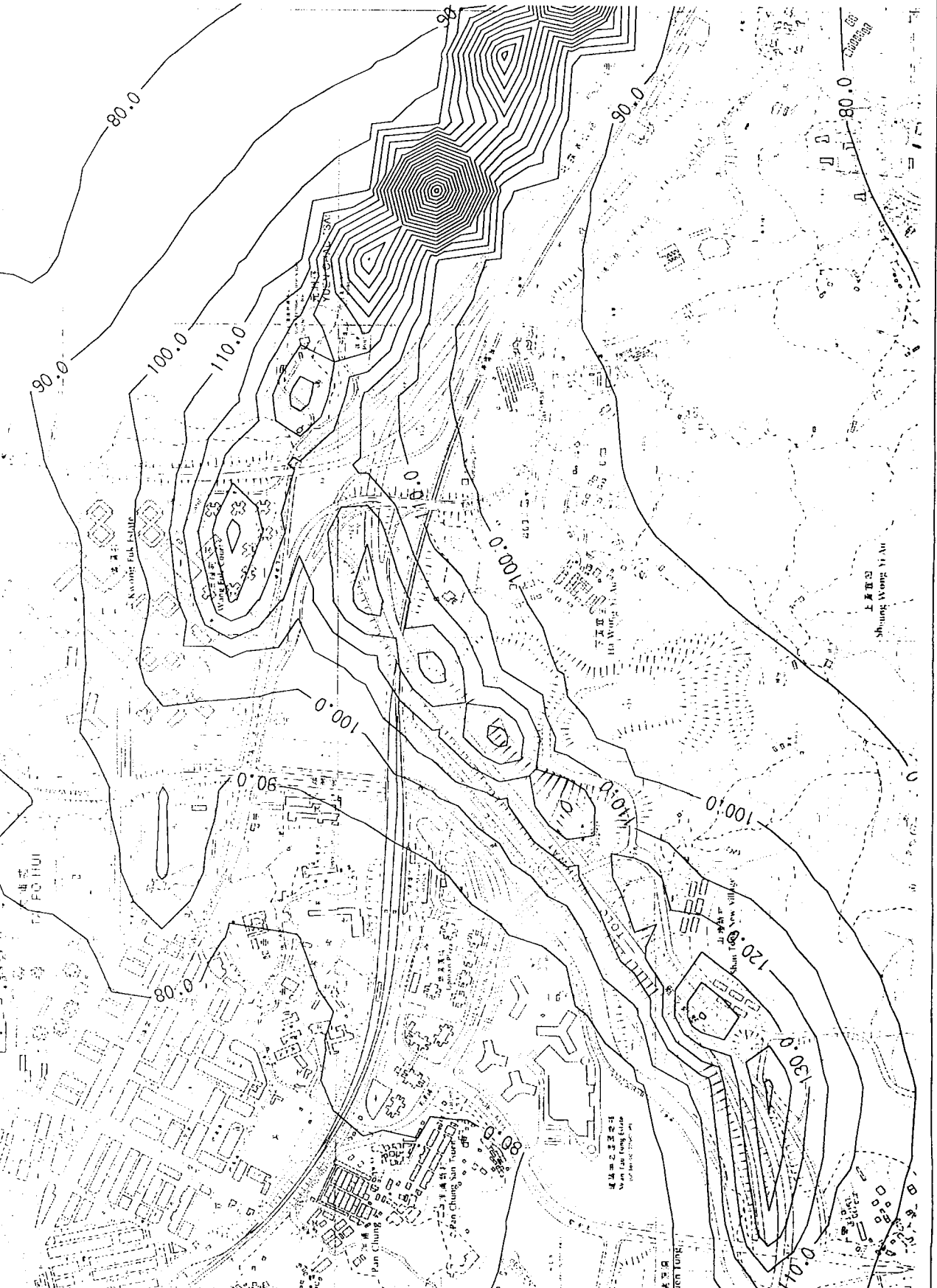
Project
 Investigation Assignment for Widening of Tolo Highway / Failing Highway between Island House Interchange and Failing

Daily RSP Concentration Isoplets at 35 MPD (Area 1)

Scale	1 : 6250
Contract No.	Unit
Drawing No.	4.6.1
Rev.	D

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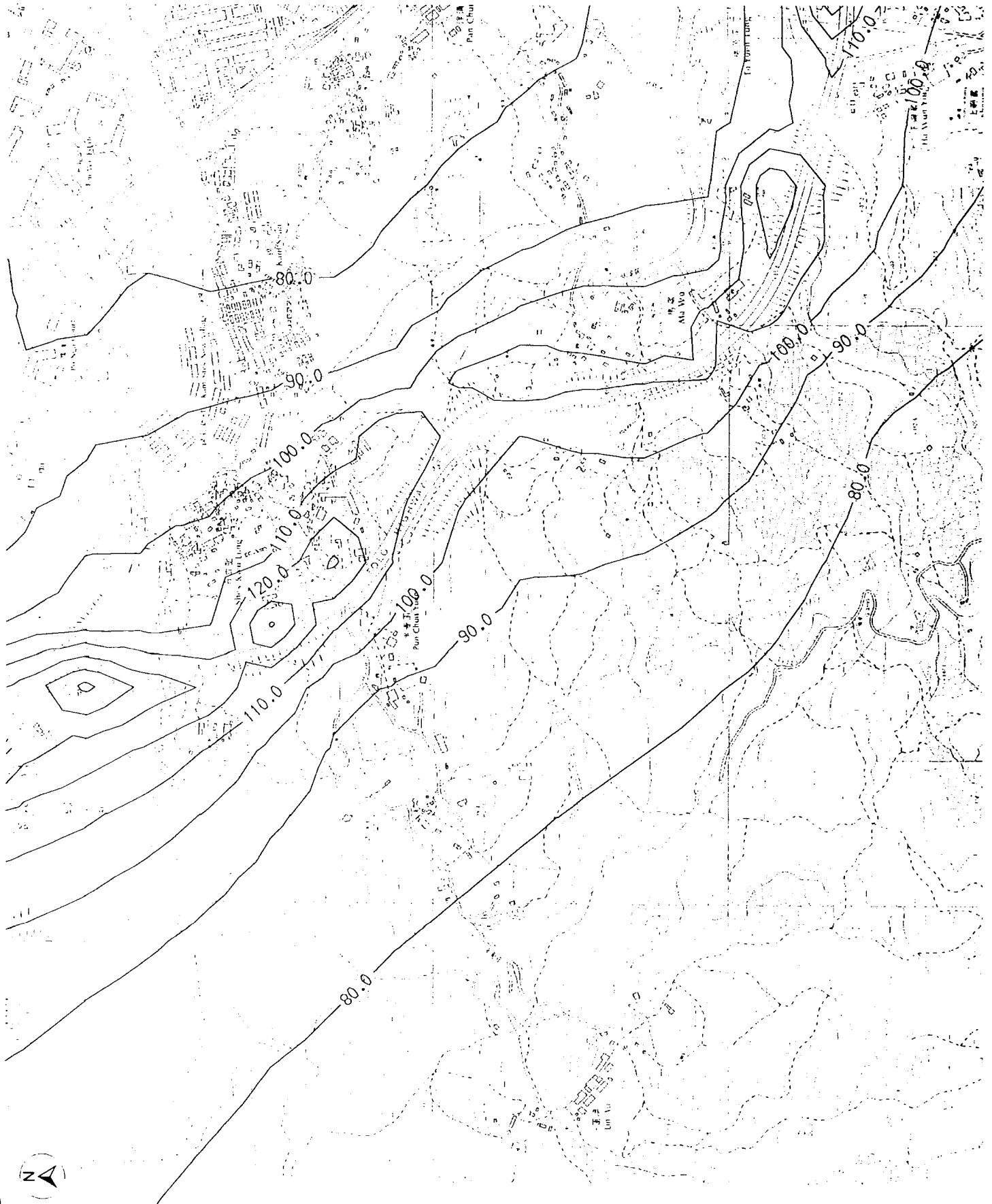
大埔
TAI PO



Drawing No.

Legend:

Daily RSP Concentration
Isopleths ($\mu\text{g}/\text{m}^3$)
—100.0—
Daily RSP AQO - 180 $\mu\text{g}/\text{m}^3$



Rev.	Date	Dim.	Description	By	Chk.	Apprv.
Design:	Drawn:	Checked:	Date:	For M.C.I.:	Date of Issue:	
Drawn: Satoru H. C. Ltd.	Date: Apr 2006	Checked:				
<p>Client: The Government of the Hong Kong Special Administrative Region Highways Department Major Works Project Management Office</p> <p>Consulting Engineering Mott Connell Ltd. 40/F Hopewell Centre 183 Queen's Road East, Hong Kong Tel No: 2828 8727 Fax No: 2827 1823</p>						
<p>Project: Investigation Assignment for Widening of Tolo Highway / Fanning Highway between Island House Interchange and Fanning</p>						
<p>Scale: 1 : 8250 Contract No. / Unit Mott Connell Drawing No. 4.6.2 Rev. D</p>						

Drawing No.

Legend:

—100.0— Daily RSP Concentration
Isopleths ($\mu\text{g}/\text{m}^3$)
Daily RSP AQO - 180 $\mu\text{g}/\text{m}^3$

Rev.	Date	Dim.	Description	Drp.	Chk.	Appd.
Designed:			Date:		Checked:	
Drawn:	Enrica H. K. Ltd.	Apr 2000	Per MCL:		Checked:	
Approved:			Date of Issue:			

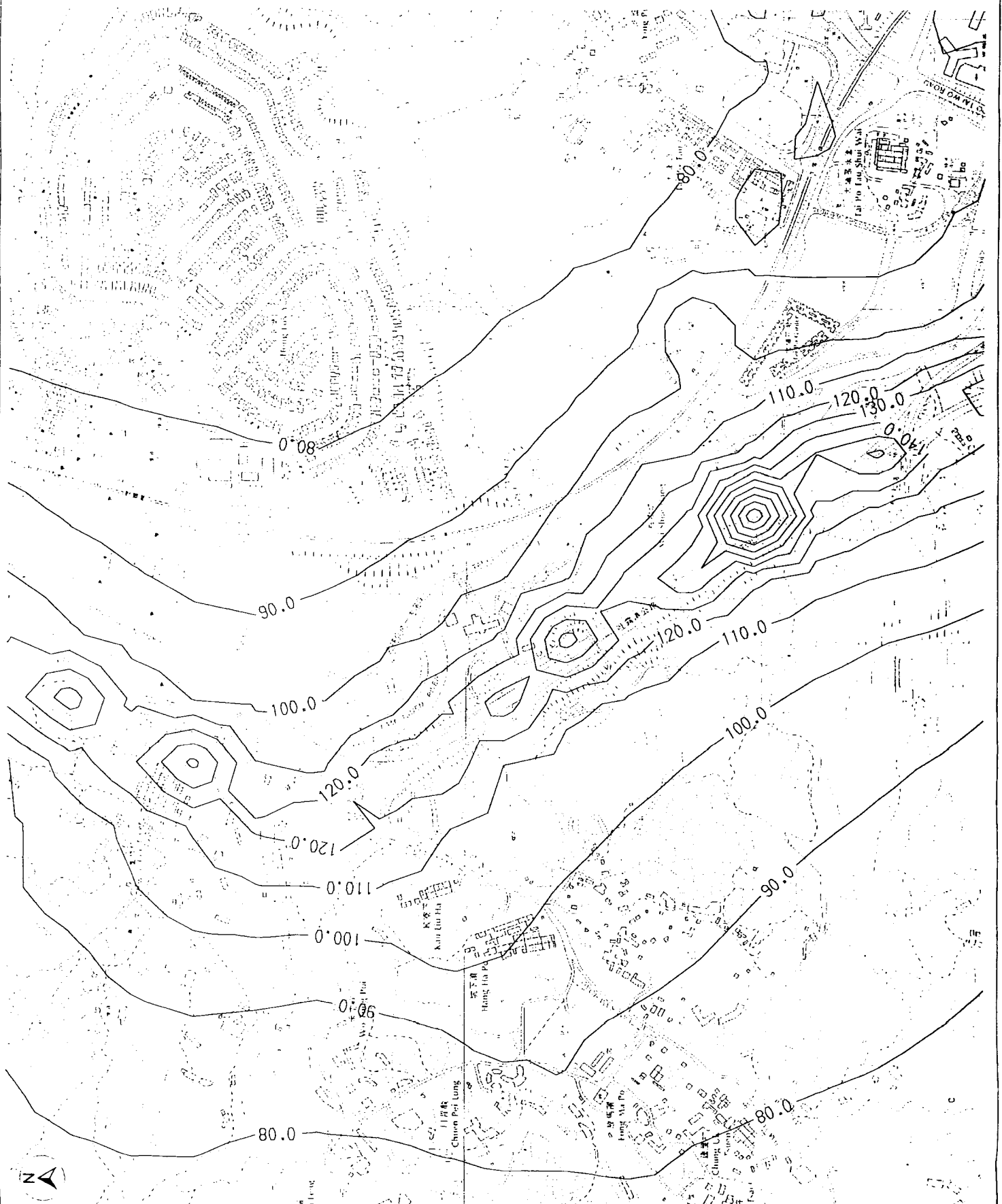
Client
M The Government of the Hong Kong
 Special Administrative Region
 Highways Department
 Major Works Project Management Office

Consulting Engineering
M Mott
 Mott
 40F Hopwood Centre
 183 Queen's Road East
 Hong Kong
 Tel No. 2828 5757
 Fax No. 2827 1823

Project
 Investigation Assignment for Widening of
 Tofo Highway / Fanning Highway between
 Island House Interchange and Fanning
 The

Daily RSP Concentration
 Isopleths at 35 mPD (Area 3)

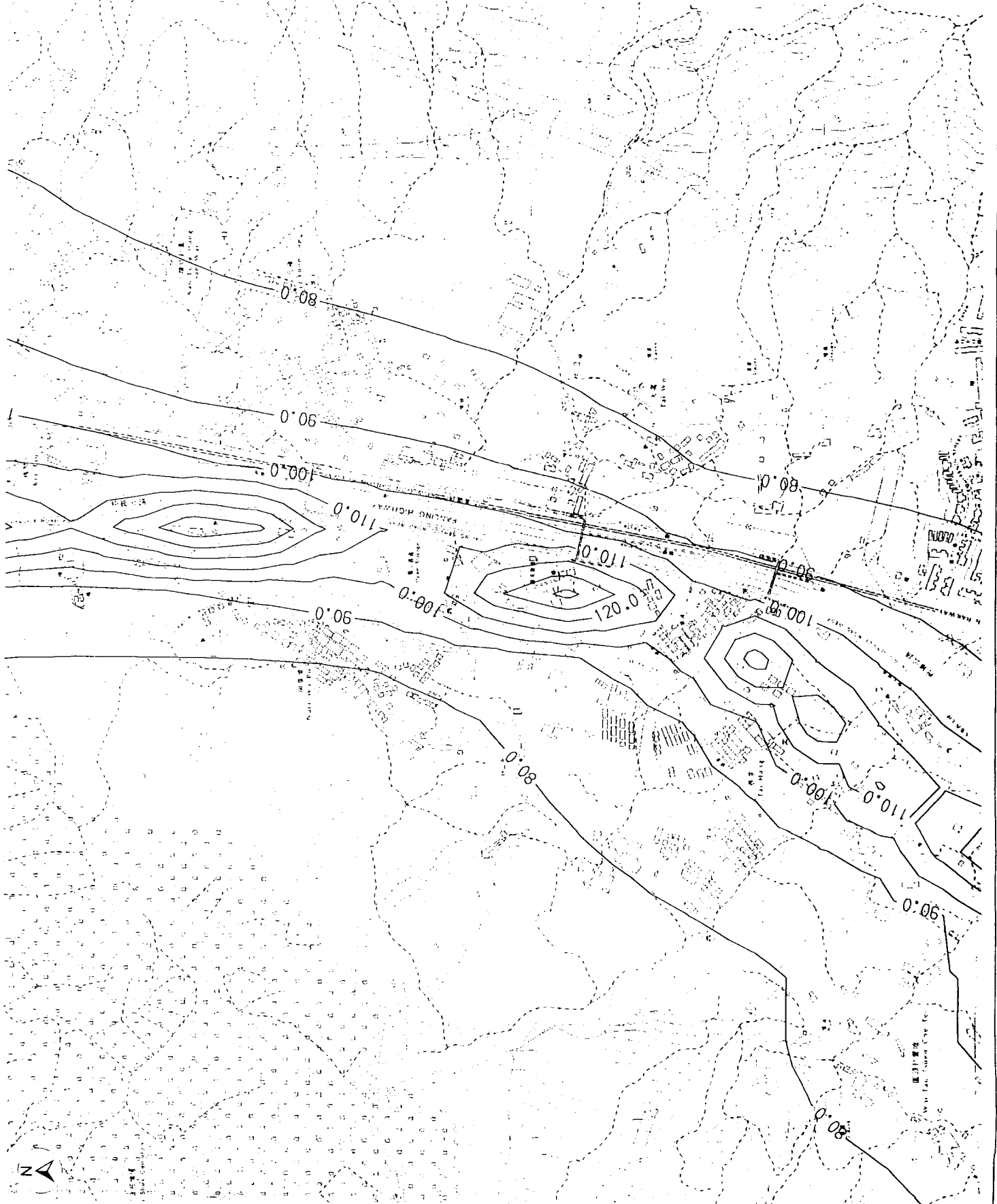
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Contract No. / Unit	
Drawing No.	4.8.3
Rev.	D
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Legend:

- 100.0 — Daily RSP Concentration Isopleths ($\mu\text{g}/\text{m}^3$)
- Daily RSP AQO - $180 \mu\text{g}/\text{m}^3$



Rev.	Date	By	Description	Dist.	Cont.	Appr.

Drawn: Ericson H.K. Ltd. Date: Aug 2000
 Checked:
 Approved:
 Checked:
 For M.C. Date of Issue:

Mott
 The Government of the Hong Kong
 Special Administrative Region
 Highways Department
 Major Works Project Management Office
 Mott Corneil Ltd.
 40/F Hopewell Centre
 183 Queen's Road East,
 Hong Kong
 Tel No. 2828 5757
 Fax No. 2827 1823

Project: Investigation Assignment for Widening of
 Tolo Highway / Fanling Highway between
 Island House Interchange and Fanling

Title: Daily RSP Concentration Isopleths at 35 mPD (Area 4)

Scale: 1 : 6250	Rev: D
Contract No. / Unit	
Drawing No. 4.6.4	

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Legend:

- 100.0 — Daily RSP Concentration Isoplets ($\mu\text{g}/\text{m}^3$)
- Daily RSP AQO - $180 \mu\text{g}/\text{m}^3$

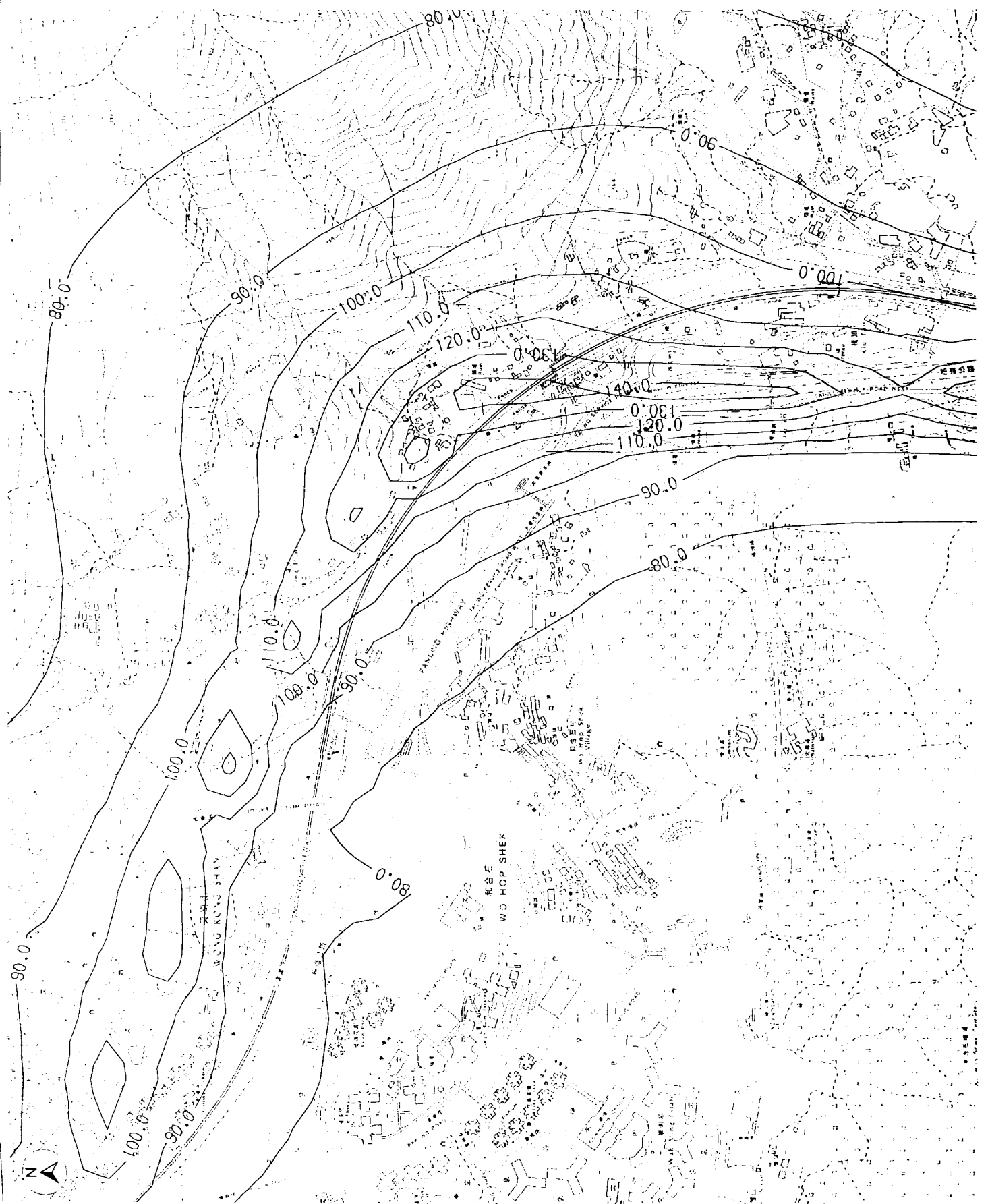
Rev.	Date	By	Description	Drawn	Checked	Appr.

Designed: Down, Brown & Co. Ltd. Date: Aug. 2000 Checked:
 Approved: For M.C. Date of Issue:
 Checked:

Mott The Government of the Hong Kong Special Administrative Region Highways Department Major Works Project Management Office
Mott Connell Ltd.
 40F Hopewell Centre Tel No. 2828 8737
 183 Queen's Road East. Fax No. 2827 1823
 Hong Kong
 Project: Investigation Assignment for Widening of
 Toa Highway / Fanning Highway between
 Island House Interchange and Fanning

The
 Daily RSP Concentration Isoplets at 35 mPD (Area 5)

Scale: 1 : 8250
 Contract No. / Unit
 Drawing No. 4.8.5
 Rev. D
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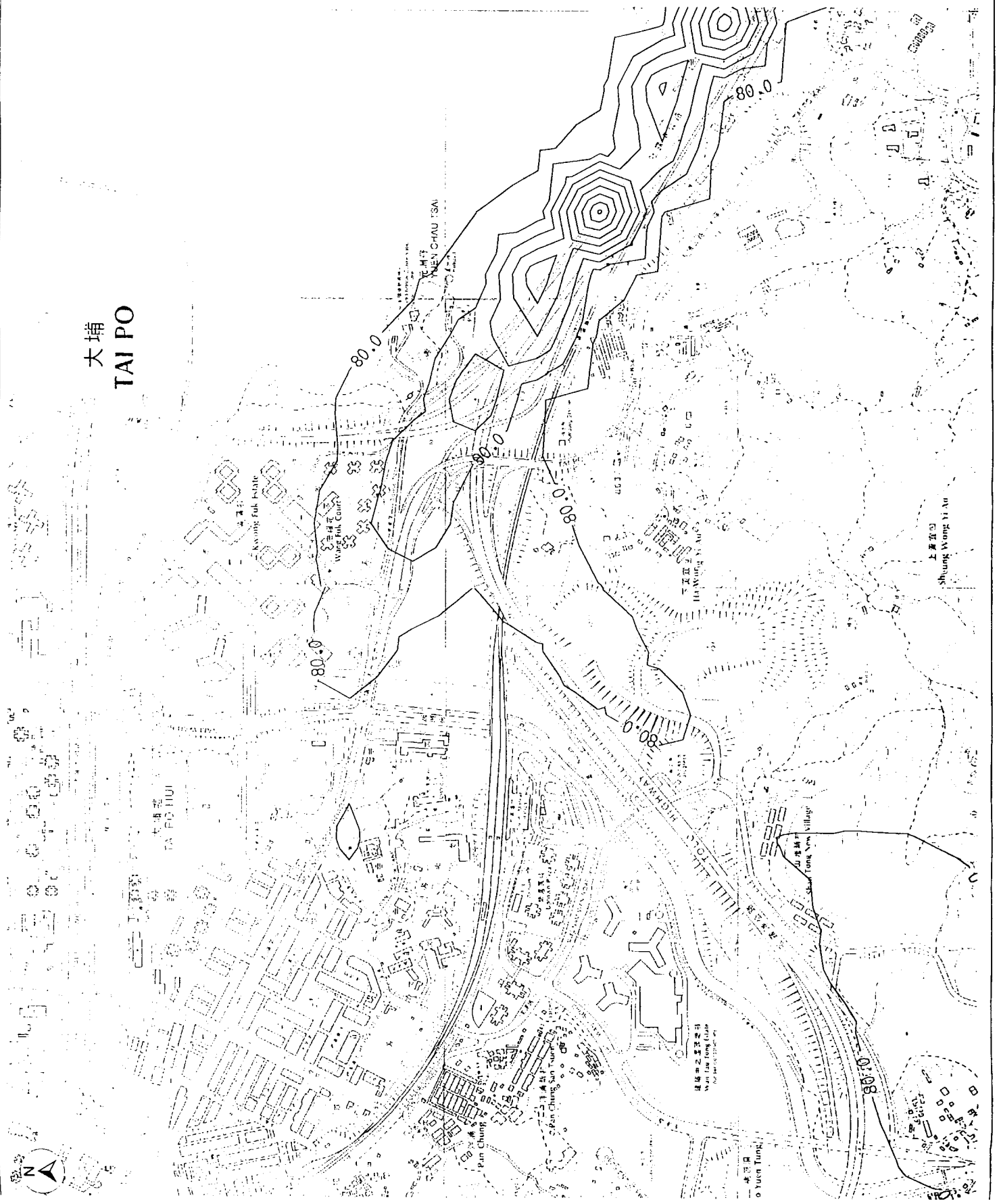


Drawing No

Legend:

- Daily RSP Concentration Isopleths ($\mu\text{g}/\text{m}^3$)
- Daily RSP AQO - $180 \mu\text{g}/\text{m}^3$

大埔
TAI PO



Revis. Date	Descr.	Drawn	Checked	Scale	Proj. Cont. (Appr.)
Designed	Date	Checked	Checked		
Drawn: Enrico H.K. Ltd.	Date: Apr 2000	Checked:			
Approved:	For M.C.	Date of Issue:			
<p>Client: The Government of the Hong Kong Special Administrative Region Highways Department Major Works Project Management Office</p> <p>Consulting Engineer: Mott Cornell Ltd. 40/F Hopewell Centre 183 Queen's Road East, Hong Kong Tel No. 2828 5757 Fax No. 2827 1823</p> <p>Project: Investigation Assignment for Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling</p>					
<p>Scale: 1 : 6250 Contract No. / JHK Drawing No. Rev. 4.7.1 D</p>					



Daily RSP Concentration Isopleths at 64 MPD (Area 1)

Drawing No

Legend:

Daily RSP Concentration
Isopleths ($\mu\text{g}/\text{m}^3$)
— 100.0 —
Daily RSP AQO - 180 $\mu\text{g}/\text{m}^3$



Rev.	Date	Desc.	Prep.	Chk.	Appr.
		Design	Checked		
		Drawn	Checked		
		Date: Apr 2000	Checked		
		For MCL	Date of Issue		
<p>Client</p> <p>M M The Government of the Hong Kong Special Administrative Region Highways Department Major Works Project Management Office</p> <p>Consulting Engineering Mott Cornell Ltd. 40/F Hopewell Centre 183 Queen's Road East Hong Kong Tel No. 2828 8757 Fax No. 2827 8223</p> <p>Project Investigation Assignment for Widening of Tolo Highway / Fanning Highway between Island House Interchange and Fanning</p>					
<p>Scale 1:6250</p> <p>Contract No. / Unit</p> <p>Drawing No. 4.7.2</p> <p>Rev. D</p>					

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Legend:

- 100.0— Daily RSP Concentration Isopleths ($\mu\text{g}/\text{m}^3$)
- Daily RSP AQO - $180 \mu\text{g}/\text{m}^3$



Rev.	Date	By	Description	Drawn	Checked	Appr.

Drawn: Emerson H.K. Ltd. Date: Apr 2000
 Checked: []
 Approved: []
 For: M.C.E. Date of Issue: []

Mott
 The Government of the Hong Kong Special Administrative Region
 Highways Department
 Major Works Project Management Office
 Consulting Engineering
Mott Cornell Ltd.
 40F Hopewell Centre
 118 Queen's Road East
 Hong Kong
 Tel No: 2828 3757
 Fax No: 2827 1653

Project: Investigation Assignment for Widening of Tolo Highway / Fanning Highway between Island House Interchange and Fanning

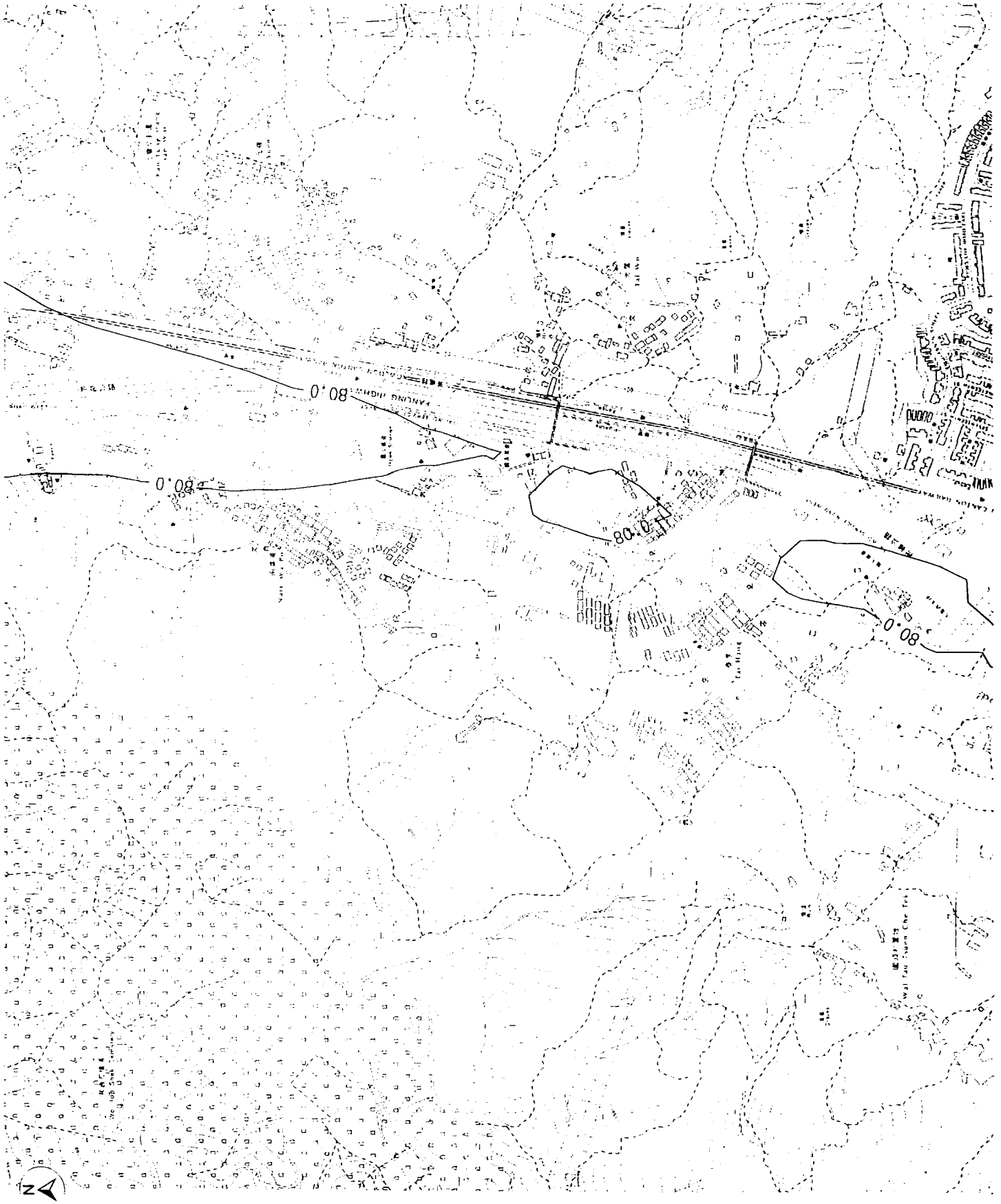
Daily RSP Concentration Isopleths at 84 mPD (Area 3)

Scale: 1:6250
 Contract No./Unit: []
 Drawing No.: 4.7.3
 Rev: D
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Drawing No.

Legend:

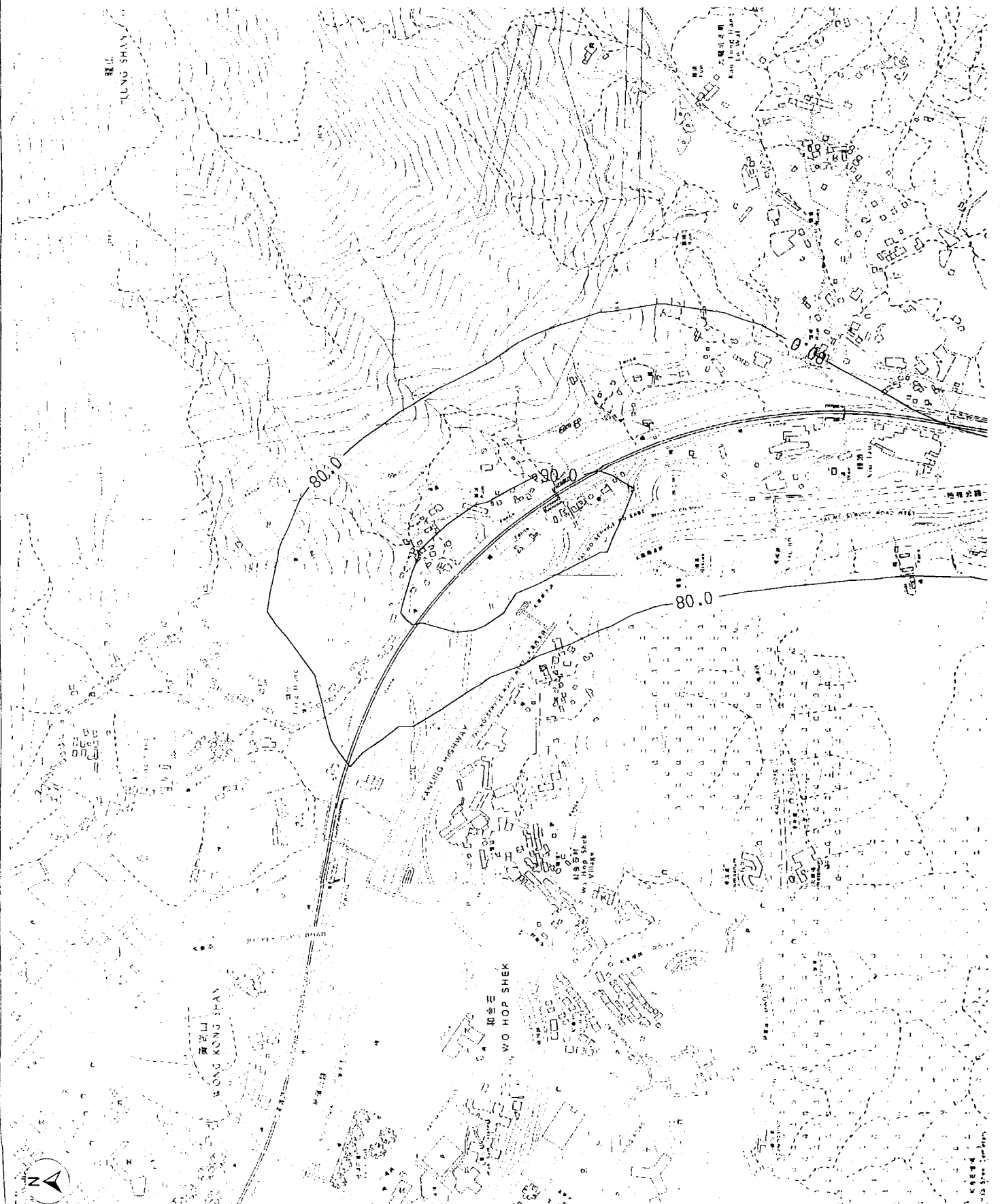
Daily RSP Concentration
Isopleths ($\mu\text{g}/\text{m}^3$)
Daily RSP AQO - 180 $\mu\text{g}/\text{m}^3$



Rev.	Date	By	Description	Dim.	Checked	App'd.
Designed:		Date:		Checked:		
Drawn: Ernest H.K. Ltd.		Date: Apr 2000		Checked:		
Approved:		For IFC:		Date of Issue:		
Client:						
The Government of the Hong Kong Special Administrative Region Highways Department Major Works Project Management Office						
Consulting Engineering						
Mott Mott Connell Ltd.						
40/F Hopewell Centre 183 Queen's Road East, Hong Kong						
Tel No. 2828 2727 Fax No. 2827 1823						
Project:						
Investigation Assignment for Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling						
Title:						
Daily RSP Concentration Isopleths at 64 mPD (Area 4)						
Scale: 1:6250						
Contract No. / Unit						
Drawing No. 4.7.4						
Rev. D						
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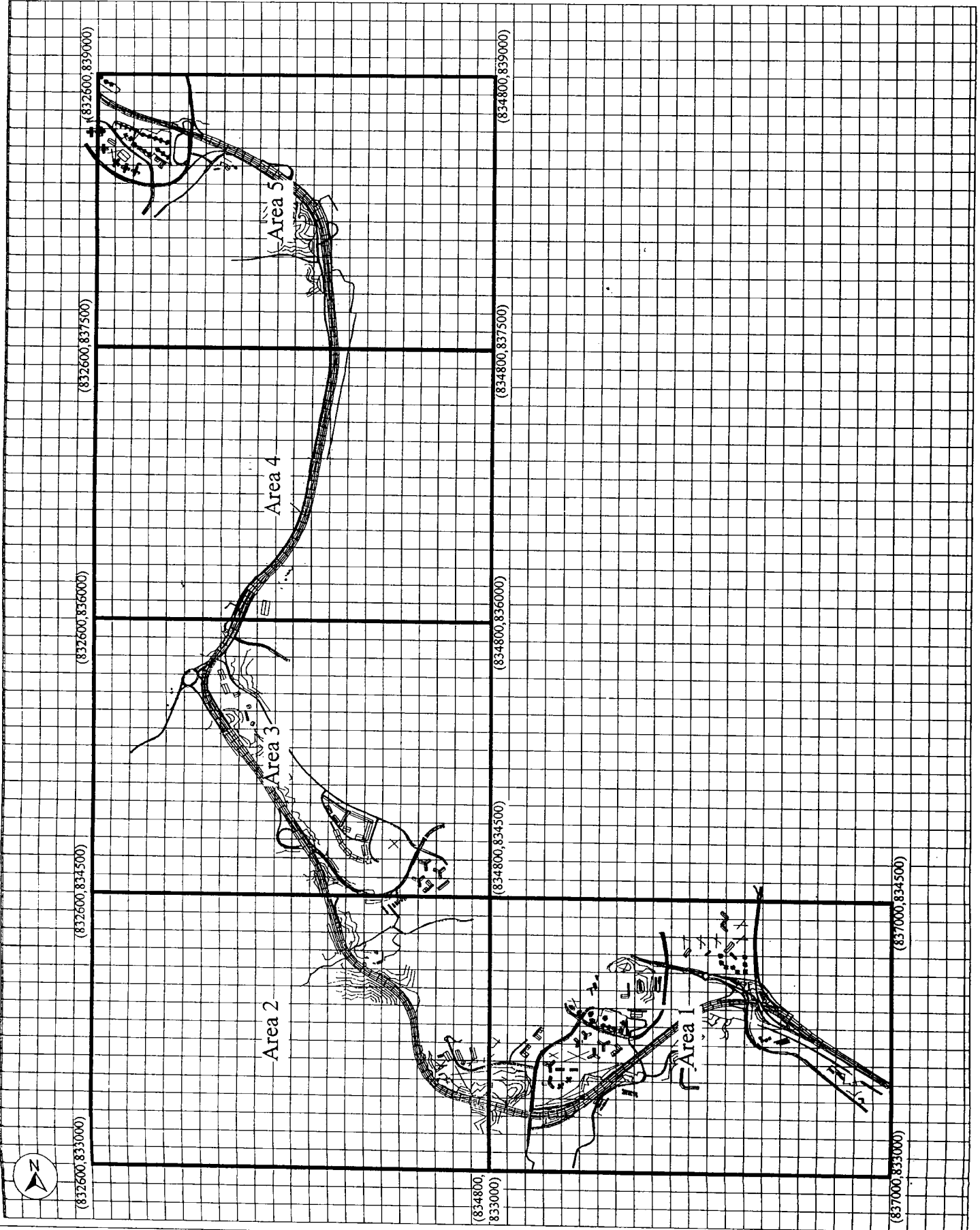
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Legend:
— 100.0 — Daily RSP Concentration
Isopleths ($\mu\text{g}/\text{m}^3$)
Daily RSP AQO - 180 $\mu\text{g}/\text{m}^3$



Rev.	Date	Desc.	Drawn	Checked	Origin	Checked
1						
Designed			Date			Checked
Drawn: EYONG H. K. LUI			Date: APR 2000			Checked:
Approved:			For MCL			Date of Issue:
<p>The Government of the Hong Kong Special Administrative Region Highways Department Major Works Project Management Office</p> <p>Mott Connell Ltd. Consulting Engineering 407 Hopewell Centre Hopewell Road East, Hong Kong Tel No. 2528 5757 Fax No. 2527 1823</p> <p>Project: Investigation Assignment for Widening of Tolo Highway / Failing Highway between Island House Interchange and Failing</p>						
<p>Mott Connell Scale: 1 : 6250 Contract No. / Unit Drawing No. 4.7.5 Rev. D</p>						

Daily RSP Concentration Isopleths at 64 MPD (Area 5)



Rev	Date	Des	Description	By	Chk	Appr
1						

Designed:
 Drawn:
 Approved:
 Client:
 For:
 Date of Issue:

The Government of the Hong Kong
 Special Administrative Region
 Highways Department
 Major Works Project Management Office

Consulting Engineer
 Mott Connell Ltd.
 407 Harbour Centre
 113 Queen's Road East,
 Hong Kong
 Tel No. 2525 5757
 Fax No. 2527 1823

Project:
 Investigation Assignment for Widening of
 Tolo Highway / Feinting Highway between
 Island House Interchange and Fanling

Title:
 Plot Areas of Air Pollutant
 Concentration Isoplets

Mott Connell Ltd.
 Scale: NTS
 Contract No. / Unit
 Drawing No. 4.8
 Rev:
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 CAD File

Drawing No

Legend:

- NSR & ASR
- NSR Only

NSR = Noise Sensitive Receiver
 ASR = Air Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
 Law, $L_{Aeq,1hr}$ dB(A) (With Mitigation) and
 Traffic Related Air Quality

SR1 Avon Park

1/F 77.3 dB(A) 1/F NO_x 150.7 $\mu\text{g}/\text{m}^3$
 3/F 78.2 dB(A) RSP 84.5 $\mu\text{g}/\text{m}^3$
 25/F 77.5 dB(A)

SR2 Fanling Government
 Secondary School

1/F 69.8 dB(A) 1/F NO_x 177.3 $\mu\text{g}/\text{m}^3$
 RSP 82.8 $\mu\text{g}/\text{m}^3$

SR3 Dawning Views 1

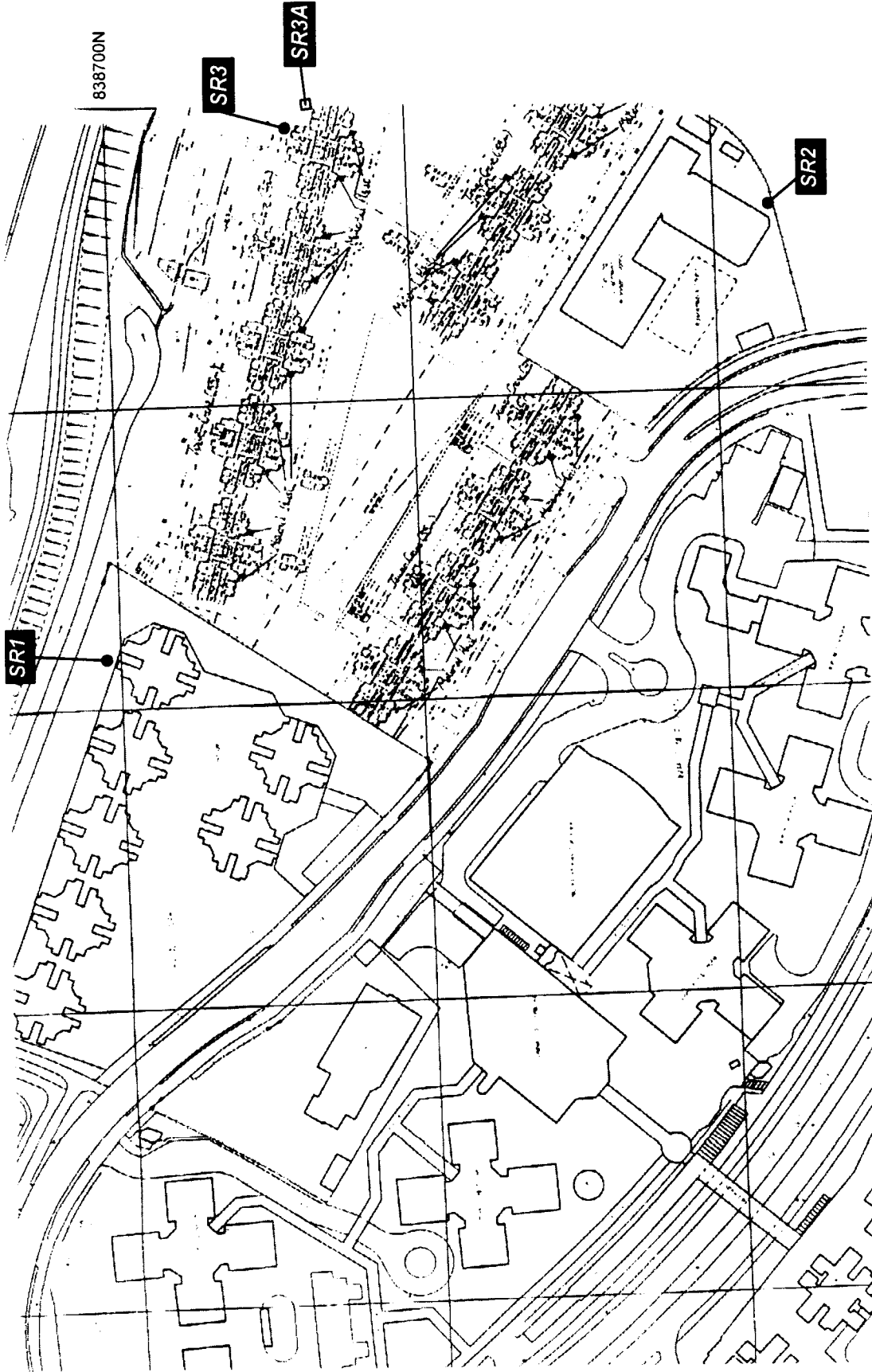
1/F 76.5 dB(A) 1/F NO_x 179.2 $\mu\text{g}/\text{m}^3$
 14/F 78.7 dB(A) RSP 94.8 $\mu\text{g}/\text{m}^3$
 28/F 78.6 dB(A)

SR3A Dawning Views 2

1/F 77.7 dB(A)
 14/F 78.7 dB(A)
 28/F 78.6 dB(A)

832900E

838700N



Rev	Date	By	Description	Appr	Doc	Appr
01	15/03/2000	EM	Drawn	EM	01	EM
02	15/03/2000	EM	Checked	EM	02	EM
03	15/03/2000	EM	For M.C.S.	EM	03	EM

Client:
 The Government of the Hong Kong
 Special Administrative Region
 Highways Department
 Major Works Project Management Office

Contracting Engineer:
Mott Connell Ltd
 183 Robinson Road East
 Hong Kong
 Project:
 Investigation Assignment for Widening of
 Tolo Highway / Fanling Highway between
 Island House Interchange and Fanning
 Tie

Tel No 2828 5757
 Fax No 2827 1823

Sensitive Receiver Locations at
 Avon Park & Dawning Views

Scale 1:2000
 Contract No / Line
 Drawing No 511
 Rev D

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Drawing No

Legend

● NSR & ASR

NSR = Noise Sensitive Receiver
ASR = Air Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
L_{10p, 1500} dB(A) (With Mitigation) and
Traffic Related Air Quality

SR75 Wong Kong Shan

G/F 77.2 dB (A) 1/1F NO₂ 195.4 µg/m³
1/F 77.2 dB (A) RSP 94.5 µg/m³

Date	Description	By	For
10/01/2000	Design	Y. C. Yip	Client
10/01/2000	Drawn	Y. C. Yip	Client
10/01/2000	Checked	Y. C. Yip	Client
10/01/2000	Approved	Y. C. Yip	Client

The Government of the Hong Kong
Special Administrative Region
Highways Department
Major Works Project Management Office

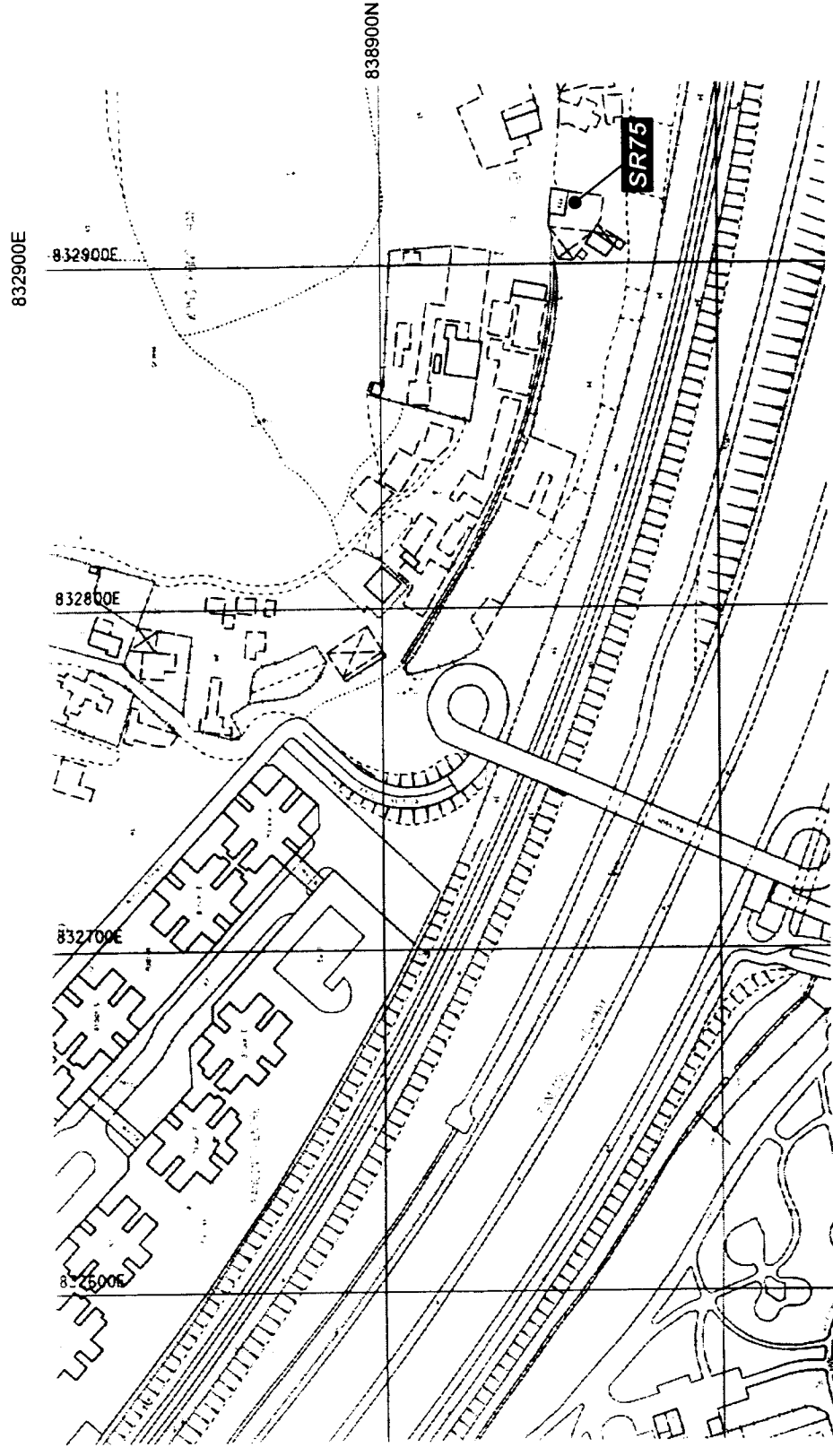
Consulting Engineers
**Mott
Connell** Ltd
407 Singapore Centre
83 Canton Road 8/F
Hong Kong
Tel No. 2828 5757
Fax No. 2827 1823

Project: Investigation Assignment for Widening of
Tolo Highway / Fanling Highway between
Island House Interchange and Fanling

**Sensitive Receiver Locations at
Fanling Centre &
Wong Kong Shan**

Scale 1:2000
Contract No / Line
Drawing No 5.1.2
Rev D

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CAD File



Legend:
● NSR & ASR
□ NSR Only

NSR = Noise Sensitive Receiver
ASR = Air Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
L₁₀₊₁ (hour) dB(A) (With Mitigation) and
Traffic Related Air Quality

SR7

Southwest Tong Hang

GF 67.3 dB (A) 1/F NO₂ 258.8 µg/m³
1/F 68.1 dB (A) RSP 123.0 µg/m³

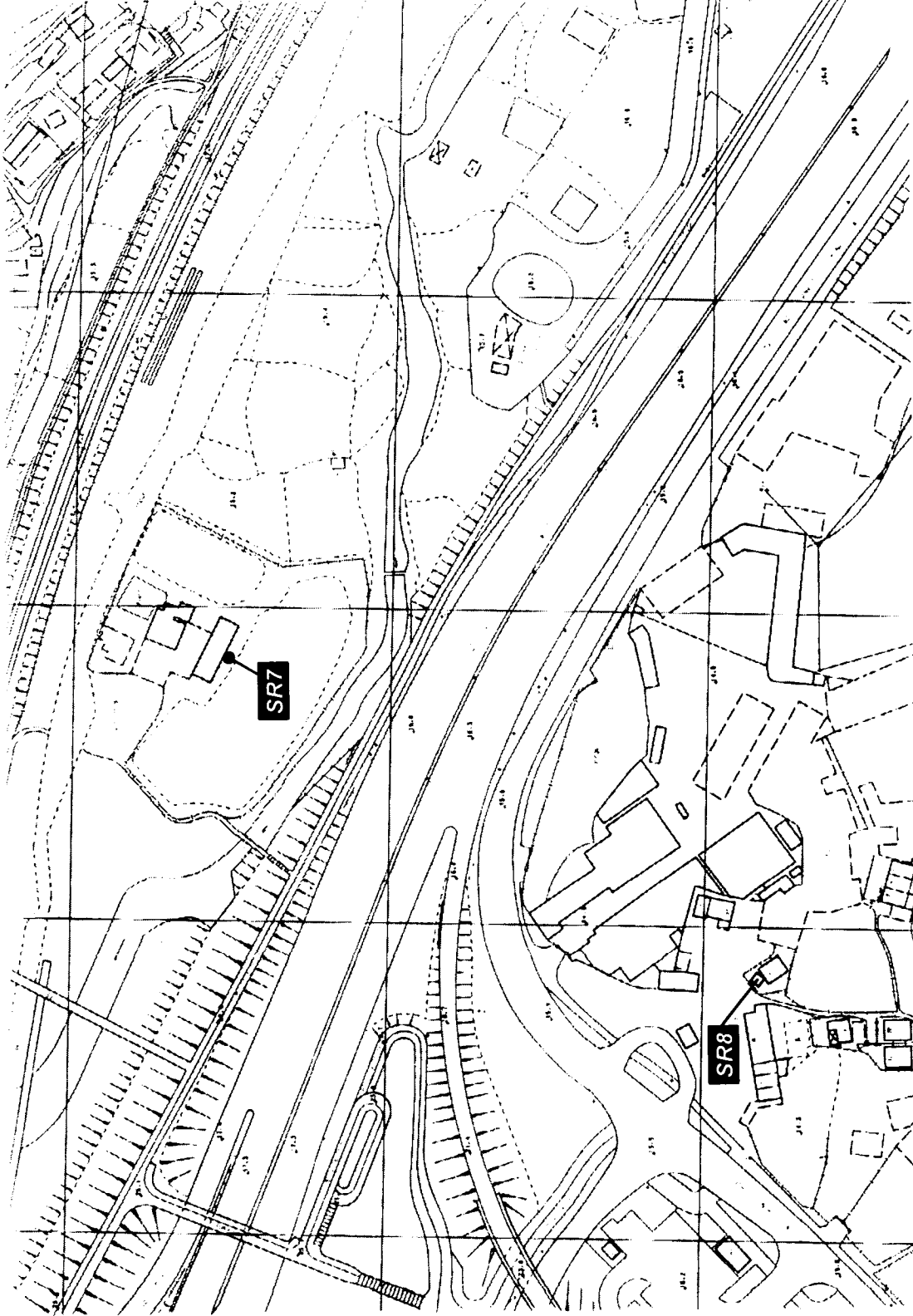
SR8

Wo Hop Shek 1

GF 66.9 dB (A)
1/F 69.0 dB (A)

833500E

838700N



Rev.	Date	By	Description	Checked	By	Date	Appr.
1							

Drawn: Enyasa H K Ltd Date: Mar 2000
 Approved: For M.C. Date of issue
 Client: The Government of the Hong Kong
 Special Administrative Region
 Highways Department
 Major Works Project Management Office

Consulting Engineering
Mott Connell Ltd
 40/F Hopewell Centre
 183 Queen's Road East,
 Hong Kong
 Tel No: 2828 5757
 Fax No: 2827 1823

Project: Investigation Assessment for Widening of
 Tolo Highway / Fanning Highway between
 Island House Interchange and Fanning

Site:
**Sensitive Receiver Locations at
 Southwest Tong Hang &
 Wo Hop Shek**

Scale: 1:2000
Mott Connell
 Contract No / Line
 Drawing No: 5.13
 Rev: D

Drawing No

Legend

● NSR & ASR

NSR = Noise Sensitive Receiver
ASR = Air Sensitive Receiver

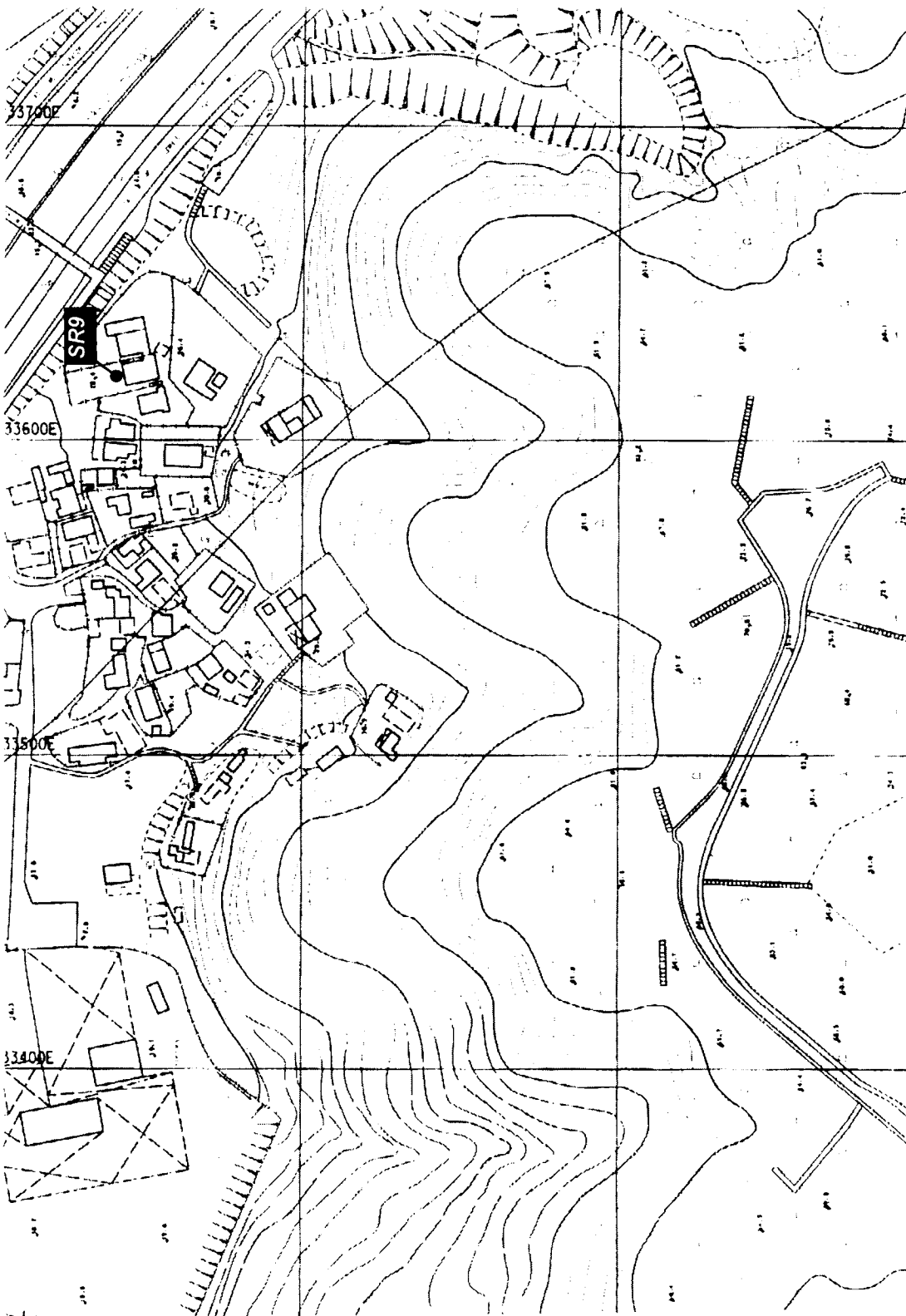
Predicted Year 2020 Road Traffic Noise
L_{10,15} Max dB(A) (With Mitigation) and
Traffic Related Air Quality

SR9 Wo Hop Shek 2

G/F 73.0 dB(A) G/F NO₂ 201.5 µg/m³
1/F 73.0 dB(A) RSP 102.5 µg/m³

838300N

833700E



Rev	Desc	Dim	Description	Typ	Chg	By	Apprd
1	Design	01	Enrica H.K. Ltd	01	01	01	01
2	Check	02	Enrica H.K. Ltd	02	02	02	02
3	Approved	03	Enrica H.K. Ltd	03	03	03	03

The Government of the Hong Kong
Special Administrative Region
Highways Department
Major Works Project Management Office

Consulting Engineer
Mott Connell Ltd.

40/F Hopwood Centre
103 Queen's Road East,
Hong Kong
Project

Tel No 2828 5157
Fax No 2827 1823

Tolo Highway / Fanling Highway between
Island House Interchange and Failing

**Sensitive Receiver Location at
Wo Hop Shek**

Scale 1:2000
Mott Connell
Contract No / Unit
Drawing No 514
Rev D

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Drawing No

Legend

NSR Only

NSR = Noise Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
L_{10t} (H_{hr}) dB(A) (With Mitigation)

SR10

Kau Lung Hang

G/F 69.7 dB(A)

838300N

834200E

834200E

834100E

834000E

833900E

SR10



Rev	Date	By	Checked	Date	By

Designed: **Green Enviro H.K. Ltd.** Date: **Mar 2000** Checked:
 Drawn: Date: For: Date of Issue:
 Project:

Mot The Government of the Hong Kong
 Special Administrative Region
 Highways Department
 Major Works Project Management Office

Contracting Engineering
Mot Connell Ltd.
 40/F Hopewell Centre
 183 Queen's Road East
 Hong Kong
 Tel No: 2628 5757 Fax No: 2627 1823

Project: **Investigation Assignment for Widening of
 Tolo Highway / Fanning Highway between
 Island House Interchange and Fanning**

Scale: **1:2000**
 Contract No / Unit:
 Drawing No: **515**
 Rev: **D**

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Drawing No

Legend

- NSR & ASR
- NSR Only

NSR = Noise Sensitive Receiver
 ASR = Air Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
 $L_{eq, 16hr}$ dB(A) (With Mitigation) and
 Traffic Related Air Quality

SR17

Kiu Tau

G/F 72.6 dB (A) G/F NO₂ 288.8 $\mu\text{g}/\text{m}^3$
 1/F 72.5 dB (A) RSP 149.5 $\mu\text{g}/\text{m}^3$

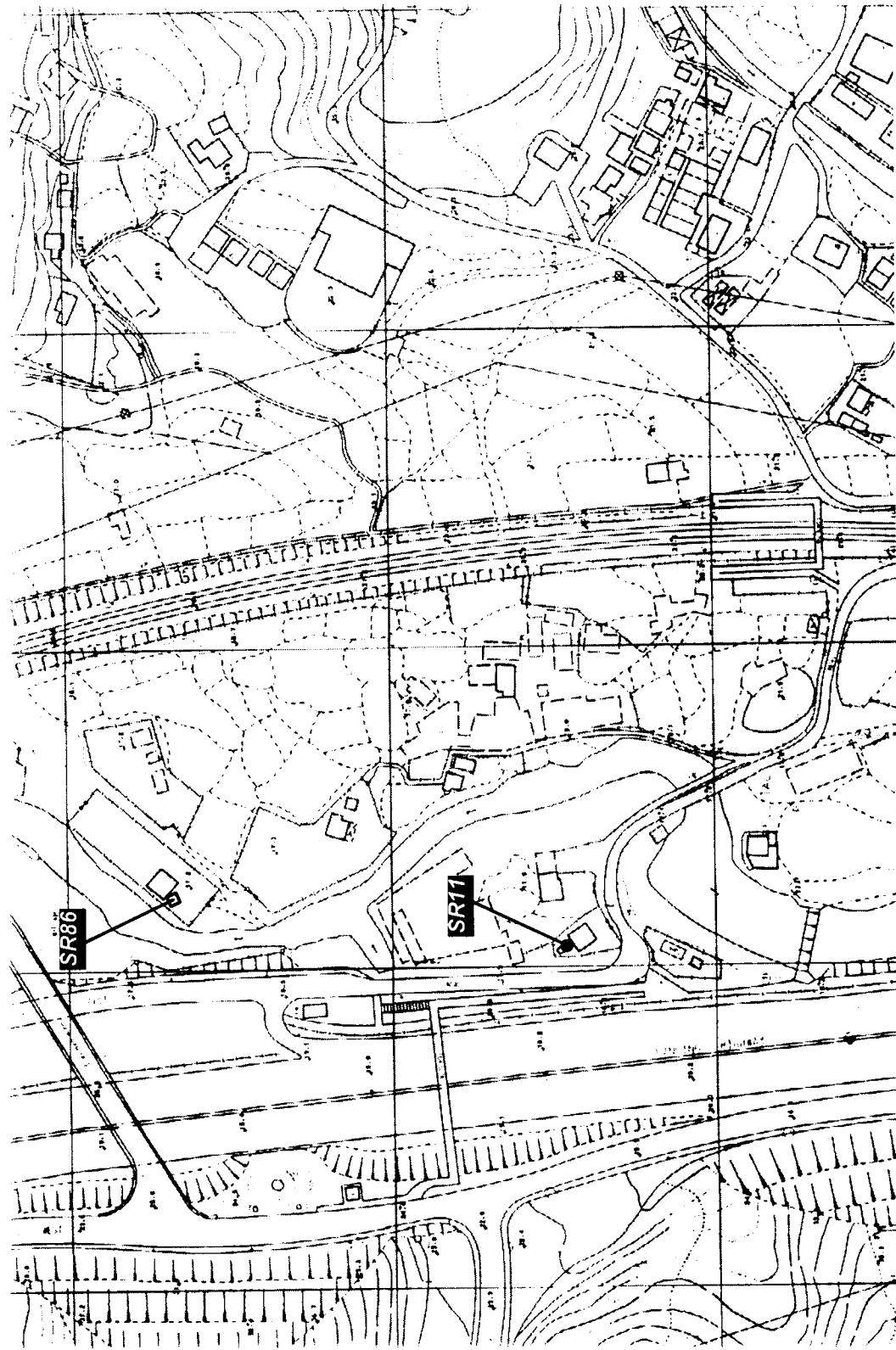
SR86

Tong Hang

G/F 70.7 dB (A)
 2/F 71.2 dB (A)

834100E

838100N



Rev	Date	By	Description	Drawn	Checked	Date	Checked
01	18/03/2020	Y. Cheung	Design	Y. Cheung	Y. Cheung	18/03/2020	18/03/2020
02	25/03/2020	Y. Cheung	Design	Y. Cheung	Y. Cheung	25/03/2020	25/03/2020
03	25/03/2020	Y. Cheung	Design	Y. Cheung	Y. Cheung	25/03/2020	25/03/2020



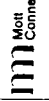
The Government of the Hong Kong
 Special Administrative Region
 Highways Department
 Major Works Project Management Office

Mott + Macdonald
 40/F Hopewell Centre
 183 Queen's Road East
 Hong Kong
 Tel No: 2838 5257
 Fax No: 2827 1823

Investigation Assignment for Widening of
 Tolo Highway / Fanning Highway between
 Island House Interchange and Fanning

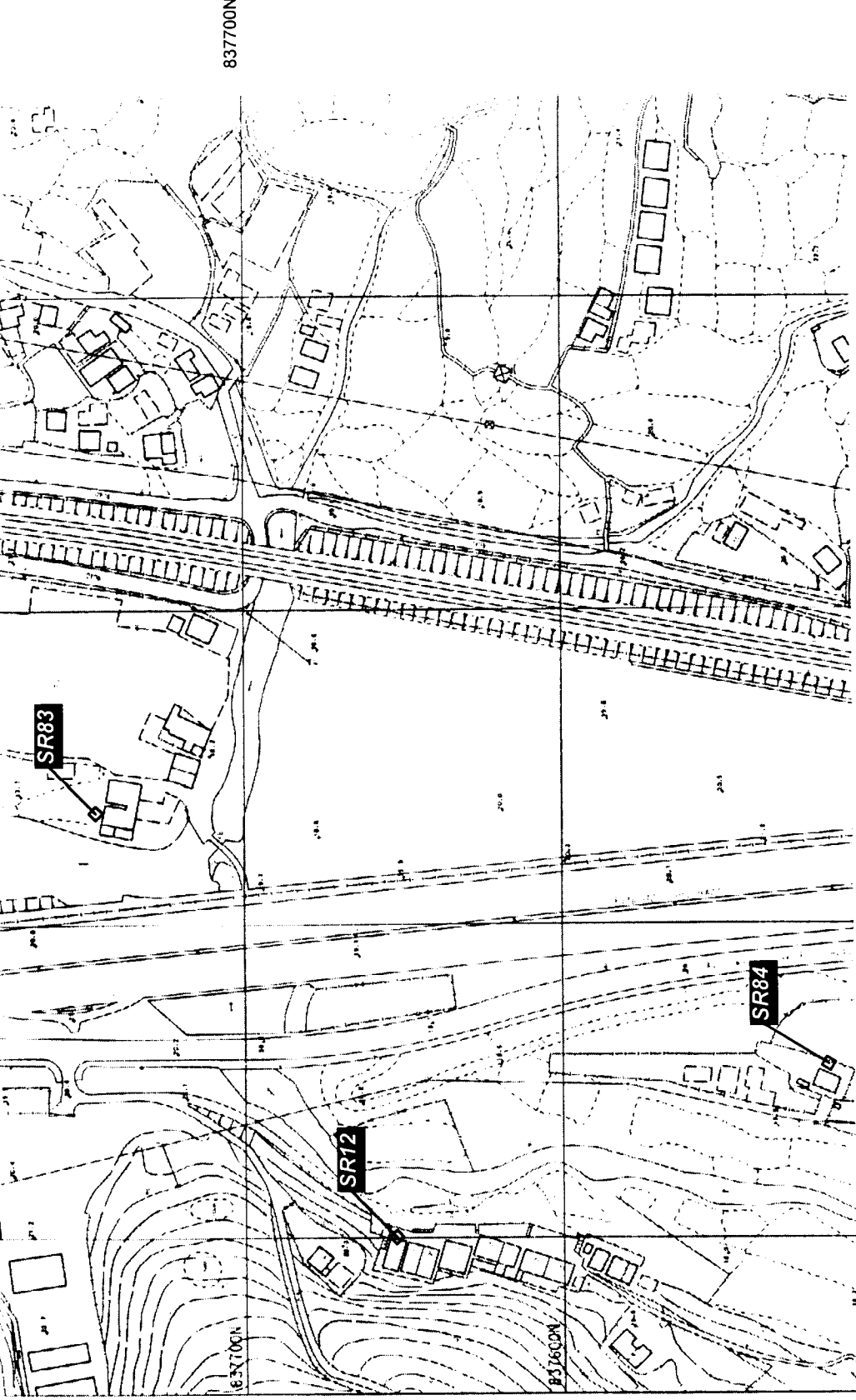
Sensitive Receiver Locations at
 Kiu Tau & Tong Hang

Scale: 1:2000
 Contact No / Unit: 516
 Drawing No: 516
 Rev: D



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Predicted Year 2020 Road Traffic Noise
L₁₀₊₁₅(_{hour}) dB(A) (With Mitigation)



SR12 Nam Wa Po

G/F 68.9 dB (A)
1/F 69.2 dB (A)

SR83 Yuen Leng 3

G/F 67.4 dB (A)
2/F 70.2 dB (A)

SR84 Nam Wo Po 2

G/F 66.2 dB (A)
2/F 67.0 dB (A)

Rev	Date	Desc	Drawn	Checked	Appr'd
01	2020	Final	Y. H. K.	M. C.	M. C.

The Government of the Hong Kong
Special Administrative Region
Highways Department
Major Works Project Management Office

Consulting Engineering
Mott
Mott
Connell
Ltd.
40/F Hopewell Centre
183 Queen's Road East
Hong Kong
Tel No: 2025 5152
Fax No: 2671 1023

Project
Investigation Assignment for Widening of
Tolo Highway / Fanning Highway between
Island House Interchange and Fanning

1 of 1

Sensitive Receiver Locations at
Nam Wa Po & Yuen Leng

Drawing No

834000E

Legend

NSR & ASR

NSR = Noise Sensitive Receiver

ASR = Air Sensitive Receiver

Predicted Year 2020 Road Traffic Noise

L₁₀₊₁ (hour) dB(A) (With Mitigation) and

Traffic Related Air Quality

SR13 West Tai Wo

G/F 66.4 dB(A)

2/F 70.2 dB(A)

SR14 Tai Wo

G/F 69.4 dB(A)

1/F 69.7 dB(A)

SR17 Tai Hang 1

Equivalent to NSR F45 identified

in the NIA 24 Hour Opening of

Border Crossing

SR17A Tai Hang 2

G/F 62.4 dB(A)

2/F 70.2 dB(A)

SR17B Tai Hang 3

G/F 68.6 dB(A) G/F NO_x: 242.9 µg/m³

2/F 70.3 dB(A) RSP 112.6 µg/m³

SR82N Tai Hang 5

G/F 65.4 dB(A)

2/F 67.5 dB(A)

SR97 Village Zone at Tai Wo 1

G/F 65.7 dB(A)

2/F 66.5 dB(A)

SR98 Village Zone at Tai Wo 2

G/F 65.3 dB(A)

2/F 66.1 dB(A)

V Village Zone Area

Ret.: OZP No. SNE-KLHZ

Client: The Government of the Hong Kong

Special Administrative Region

Highways Department

Major Works Project Management Office

Consulting Engineering

Mott Connell Ltd

40/F Hopewell Centre

183 Queen's Road East

Hong Kong

Project

Investigation Assignment for Widening of

Tolo Highway / Flanking Highway between

Island House Interchange and Fanning

Tai Wo & Tai Hang

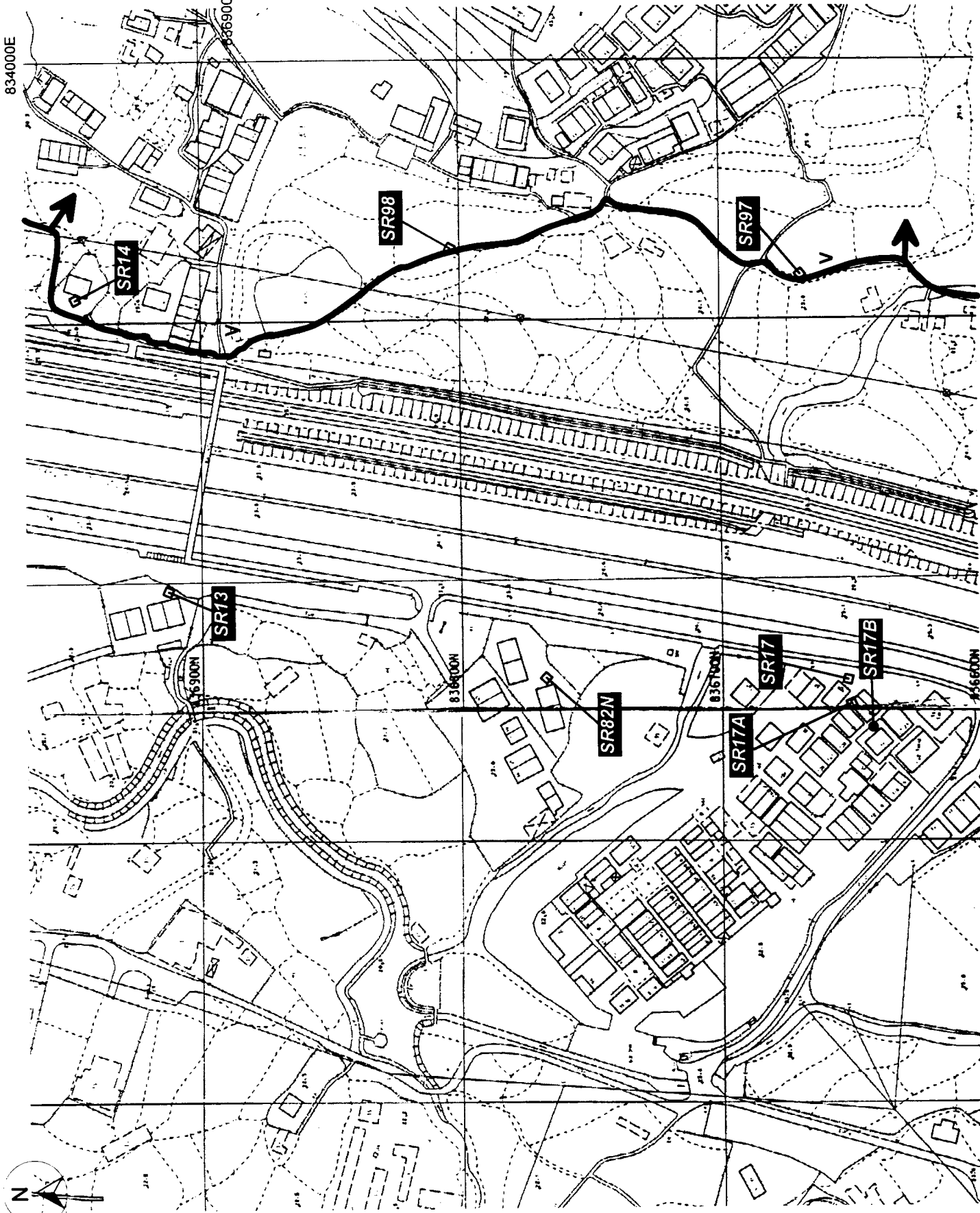
Scale 1:2000

Contract No / Lot

Drawing No 518

Rev D

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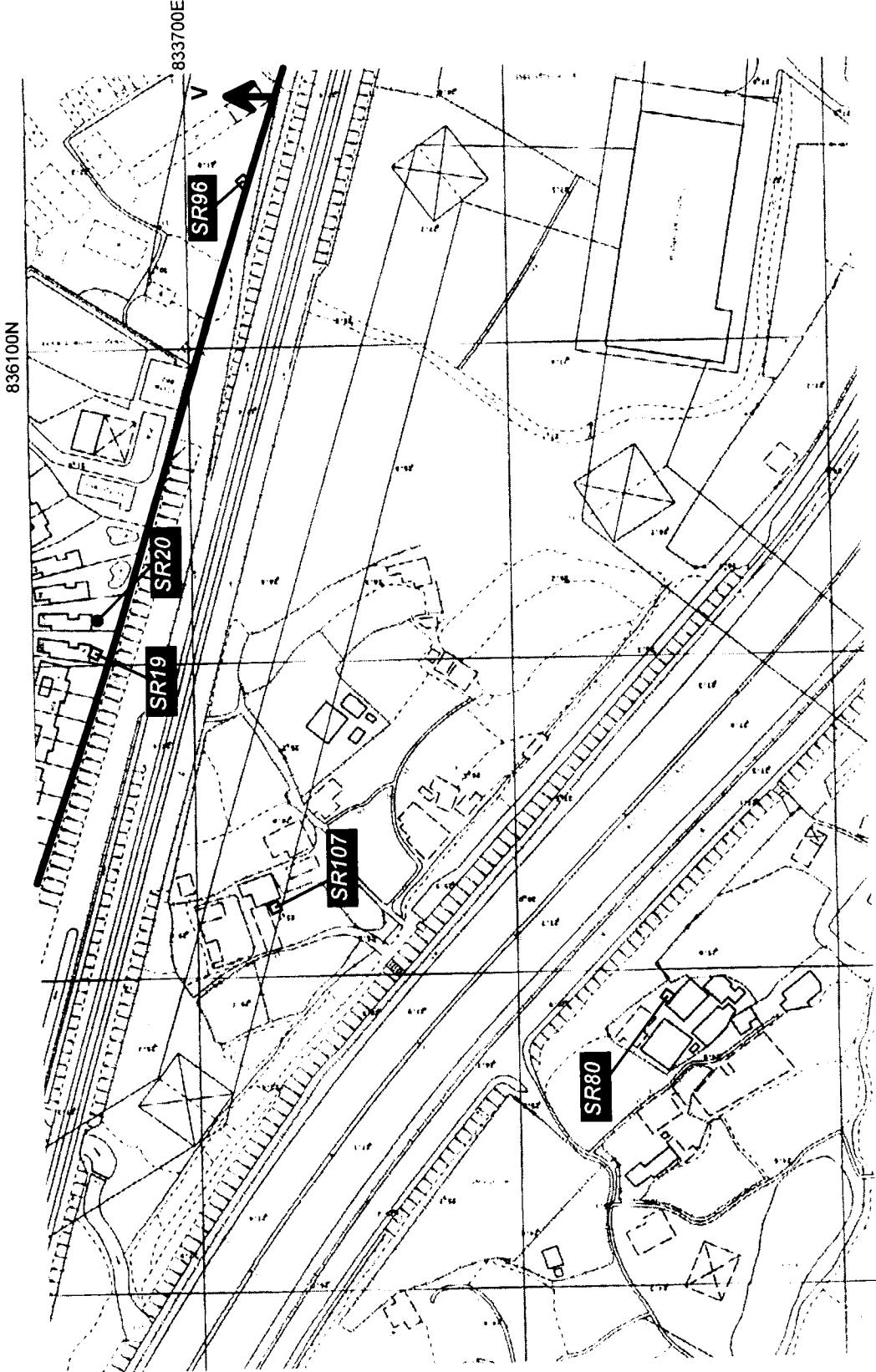
Drawing No

Legend

- NSR & ASR
- NSR Only

NSR = Noise Sensitive Receiver
 ASR = Air Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
 Levels, $L_{Aeq,1hr}$, dB(A) (With Mitigation) and
 Traffic Related Air Quality



SR19 Hong Lok Yuen 1

G/F 67.5 dB (A)
 2/F 68.2 dB (A)

SR20 Hong Lok Yuen 2

G/F 67.8 dB (A) G/F NO_x 151.4 $\mu\text{g}/\text{m}^3$
 2/F 68.4 dB (A) RSP 92.8 $\mu\text{g}/\text{m}^3$

SR80 Wai Tau Tsuen 3

G/F 65.6 dB (A)
 2/F 69.6 dB (A)

SR96 Village Zone near
 Wai Tau Tsuen

G/F 69.1 dB (A)
 2/F 69.6 dB (A)

SR107 Village House near
 Hong Lok Yuen

G/F 69.7 dB (A)
 1/F 70.4 dB (A)

V Village Zone Area
 Ref.: OZP No. S/P1/11

Rev.	Date	By	Check	Appr.
1		Design	Checked	Approved
2		Drawn	Checked	Approved
3		Checked	Checked	Approved
4		For M.C.	Checked	Approved

The Government of the Hong Kong
 Special Administrative Region
 Highways Department
 Major Works Project Management Office
 Consulting Engineering
Mott Connell Ltd.
 40/F Hopewell Centre
 183 Queen's Road East
 Hong Kong
 Tel No. 2828 5757
 Fax No. 2827 1623
 Project: Investigation Assignment for Widening of
 Tolo Highway / Fanning Highway between
 Island House Interchange and Fanning

**Sensitive Receiver Locations at
 Hong Lok Yuen &
 Wai Tau Tsuen**

Drawing No

Legend

□ NSR Only

NSR = Noise Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
L_{10,1} (hour) dB(A) (With Mitigation)

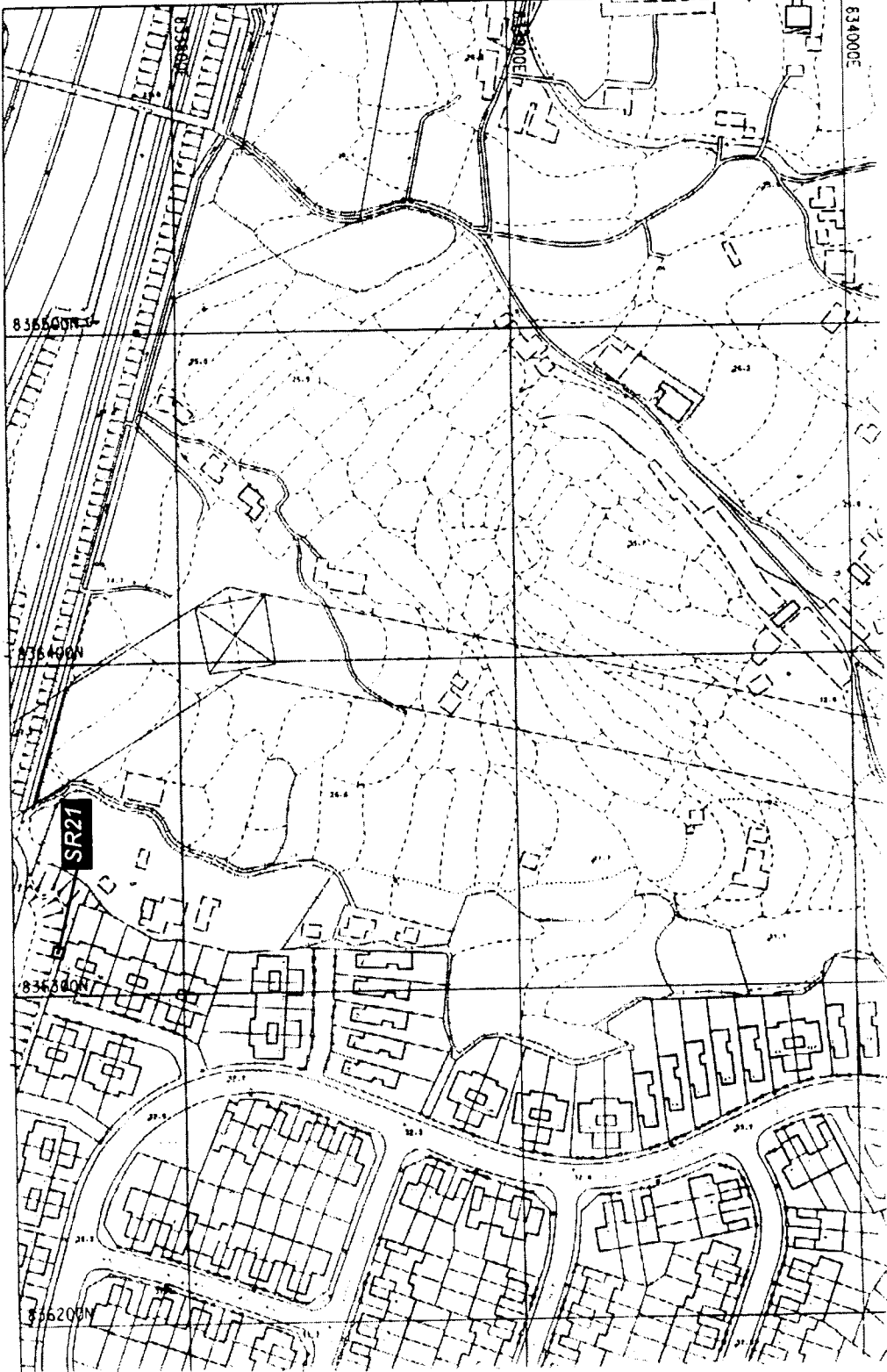
SR21

Hong Lok Yuen 3

G/F 68.6 dB (A)
2/F 69.9 dB (A)

833800E

836500N



Rev	Date	By	Description	Upr	Chk	Appr
01	01/03/2000	CHOW	Issue for M&C			
02	01/03/2000	CHOW	Issue for M&C			
03	01/03/2000	CHOW	Issue for M&C			

Drawn: CHOW ENGLA H. K. Ltd. Date: Mar 2000
 Checked: []
 Approved: []
 For M&C: []
 Date of Issue: []

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 Highways Department
 Major Works Project Management Office

Consulting Engineering
Mott
Connell
 40/F Hopewell Centre
 183 Queen's Road East,
 Hong Kong
 Project: Investigation Assignment for Widening of
 Tolo Highway / Fanling Highway between
 Island House Interchange and Fanling

Tel No: 2828 5157
 Fax No: 2827 1823

Scale: 1:2000
 Contract No / Unit: []
 Drawing No: 5.1.10
 Rev: D

Scale: 1:2000
 Contract No / Unit: []
 Drawing No: 5.1.10
 Rev: D



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Drawing No

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- NSR & ASR
- NSR = Noise Sensitive Receiver
- ASR = Air Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
 $L_{10+15\text{hour}}$ dB(A) (With Mitigation) and
 Traffic Related Air Quality

SR22

Wai Tau Tsuen 1

G/F 69.2 dB(A) 1/F NO_x 259.1 $\mu\text{g}/\text{m}^3$
 1/F 70.1 dB(A) RSP 110.8 $\mu\text{g}/\text{m}^3$

SR23

Wai Tau Tsuen 2

G/F 64.8 dB(A) 1/F NO_x 261.0 $\mu\text{g}/\text{m}^3$
 1/F 67.4 dB(A) RSP 147.8 $\mu\text{g}/\text{m}^3$

833500E

833500E

833400E

SR22

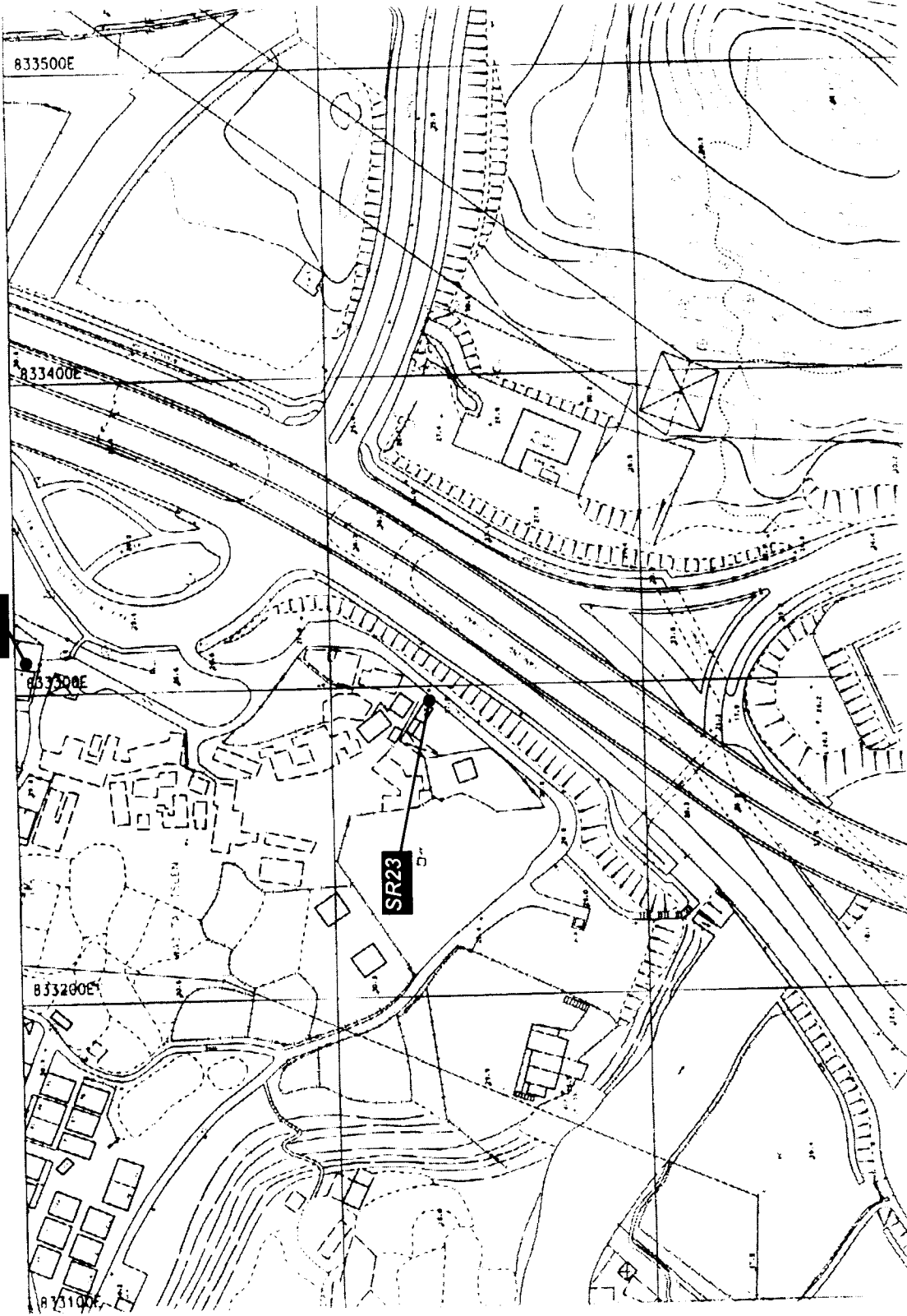
833300E

833200E

833100E

835900N

SR23



Rev	Date	By	Description	Appr	Checked	Scale
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02	15/03/2000	EM	Issue for Approval	EM	EM	1:1000

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**Mott
 Connell**
 Consulting Engineers

40/F Hopewell Centre
 183 Queen's Road East
 Hong Kong
 Project

Investigation Assignment for Widening of
 Tolo Highway / Failing Highway between
 Island House Interchange and Failing

Title

Sensitive Receiver Locations at
 Wai Tau Tsuen

Scale	1:2000
Contact No. / Unit	
Drawing No	51111
Rev	D

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Drawing No

Legend

● NSR & ASR
○ NSR Only

NSR = Noise Sensitive Receiver
ASR = Air Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
Level (dB(A) (With Mitigation) and
Traffic Related Air Quality

SR24

Kau Liu Ha 1

G/F 76.4 dB (A)
2/F 77.9 dB (A)

SR25

Kau Liu Ha 2

G/F 78.6 dB (A) 2/F NO, 207.1 $\mu\text{g}/\text{m}^3$
2/F 79.7 dB (A) RSP 103.1 $\mu\text{g}/\text{m}^3$

833300E

835600N

835600N

Rev	Date	By	Description	Appr	CHK	Appr
01			Issue for MCA			
02			Issue for MCA			
03			Issue for MCA			
04			Issue for MCA			
05			Issue for MCA			
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20			Issue for MCA			

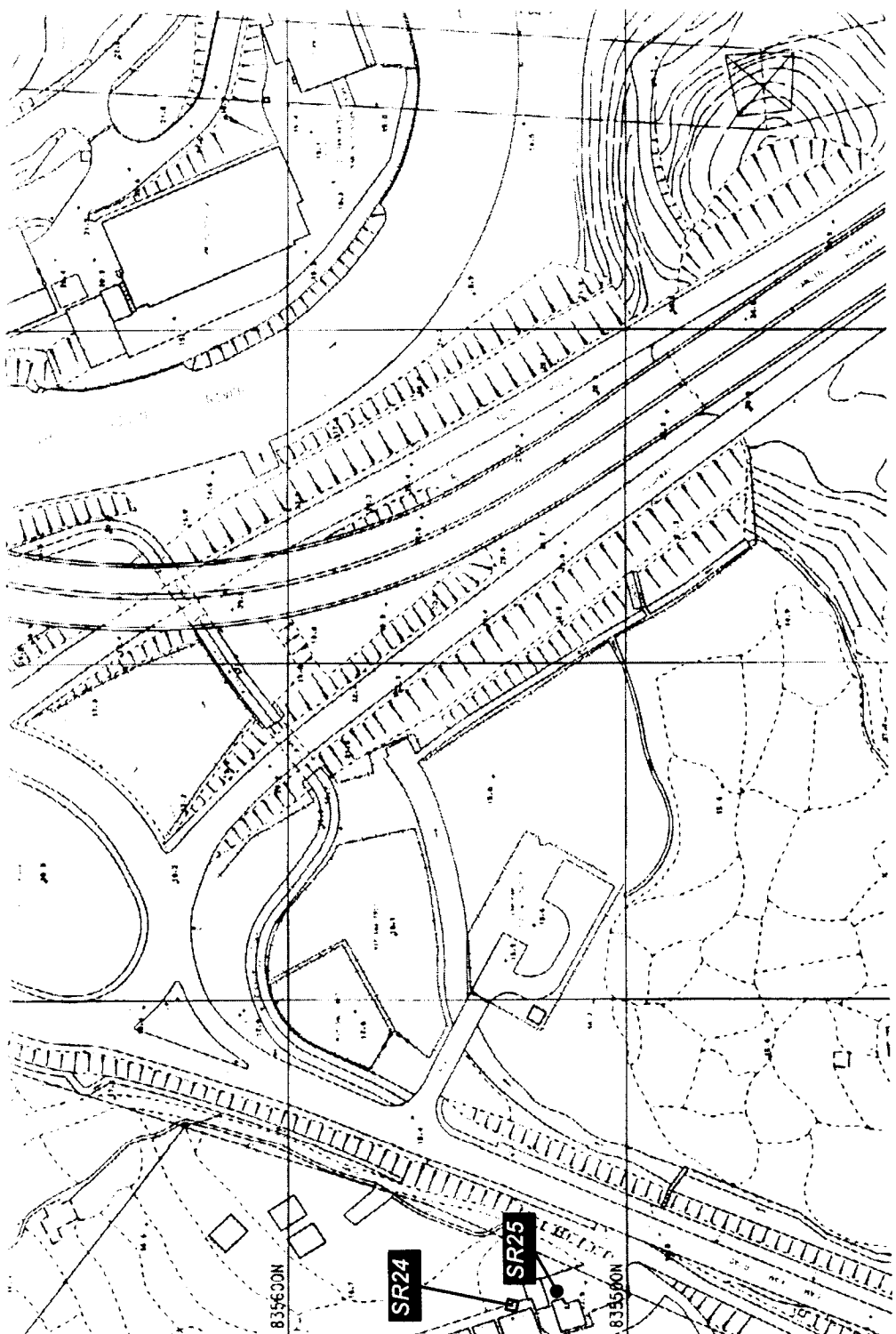
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Special Administrative Region
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Major Works Project Management Office

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407 Hopewell Centre
183 Queen's Road East
Hong Kong
Tel No. 2828 1571
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Investigation Assignment for Widening of
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Sensitive Receiver Locations at
Kau Liu Ha

Scale 1:2000
Contract No. / Job
Drawing No. 5.1.12
Rev. D
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Drawing No

Legend

NSR Only
NSR = Noise Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
L₁₀₊₁ (Peak) dB(A) (With Mitigation)

SR26 Tai Po Garden

G/F 78.7 dB (A)
4/F 76.1 dB (A)

834100E

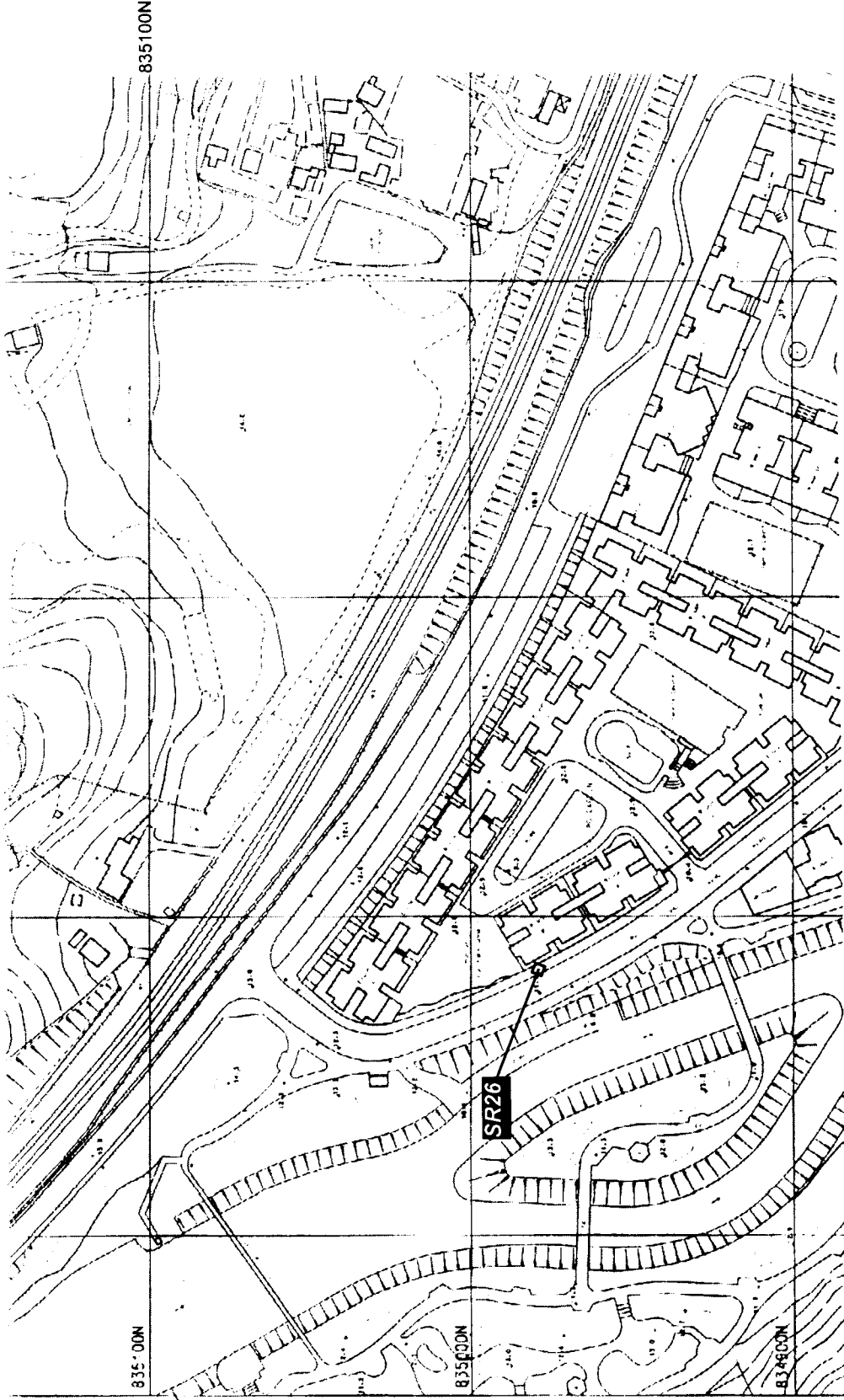
835100N

835000N

835000N

834000N

SR26



Rev	Date	Description	By	Chk	App'd
Design				Checked	
Drawn	2000	03 Mar 2000		Checked	
Approved		For M.O.		Checked	
Client		Date of issue			

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Consulting Engineering
Mott Connell Ltd.
40/F Hopwood Centre
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Hong Kong
Phone: Tel No 2628 5757
Fax No 2627 1823

Investigation Assignment for Widening of
Tolo Highway / Fanning Highway between
Island House Interchange and Fanning

1 of 2

Sensitive Receiver Location at
Tai Po Garden

Scale 1:2000
Contract No / Unit
Drawing No 5113
Rev D

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Drawing No

Legend

NSR Only

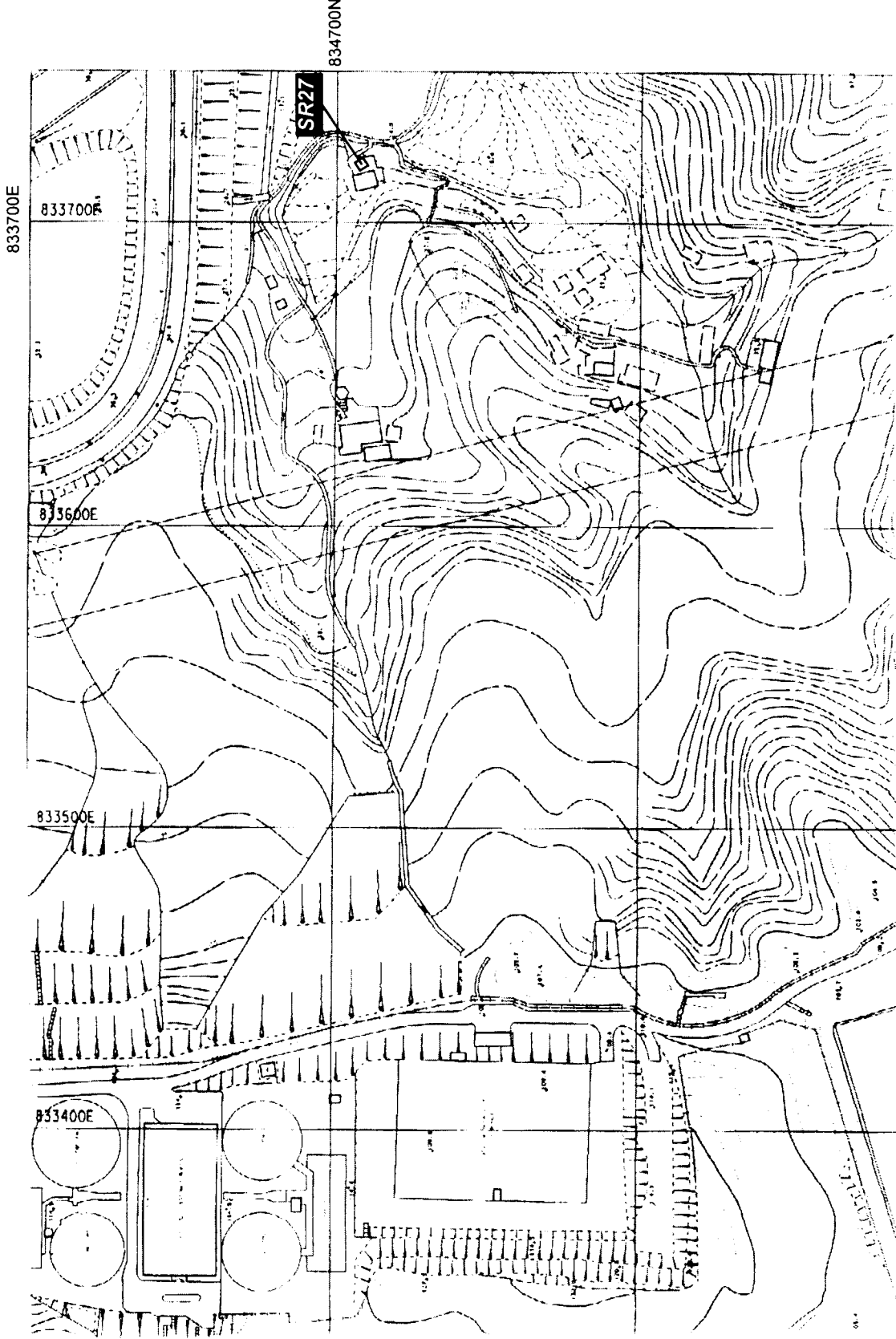
NSR = Noise Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
L_{10(L) Hour} dB(A) (With Mitigation)

SR27

Mui Shu Hang

G/F 66.5 dB (A)
1/F 67.2 dB (A)



Rev	Date	Description	By	Check	Appr
01	08/03/2000	Issue for M.O.			
02	08/03/2000	Issue for M.O.			

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Consulting Engineering
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 Fax No: 2827 1823

Project: Investigation Assignment for Widening of
 Tolo Highway / Fanning Highway between
 Island House Interchange and Fanning

Title

Sensitive Receiver Location at
Mui Shu Hang

Scale: 1:2000
 Mott Cornell
 Drawing No: 5.1.14
 Rev: D

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- NSR & ASR
- NSR Only
- NSR = Noise Sensitive Receiver
- ASR = Air Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
 $L_{10}(1hr)$, dB(A) (With Mitigation) and
 Traffic Related Air Quality

SR28

Northwest
 Shek Kwu Lung

GF 61.9 dB(A) 1/F NO_x 240.4 $\mu\text{g}/\text{m}^3$
 1/F 62.9 dB(A) RSP 142.1 $\mu\text{g}/\text{m}^3$

SR29

Parc Versailles

GF 69.8 dB(A) 5/F NO_x 167.9 $\mu\text{g}/\text{m}^3$
 5/F 70.4 dB(A) RSP 86.2 $\mu\text{g}/\text{m}^3$

SR29A

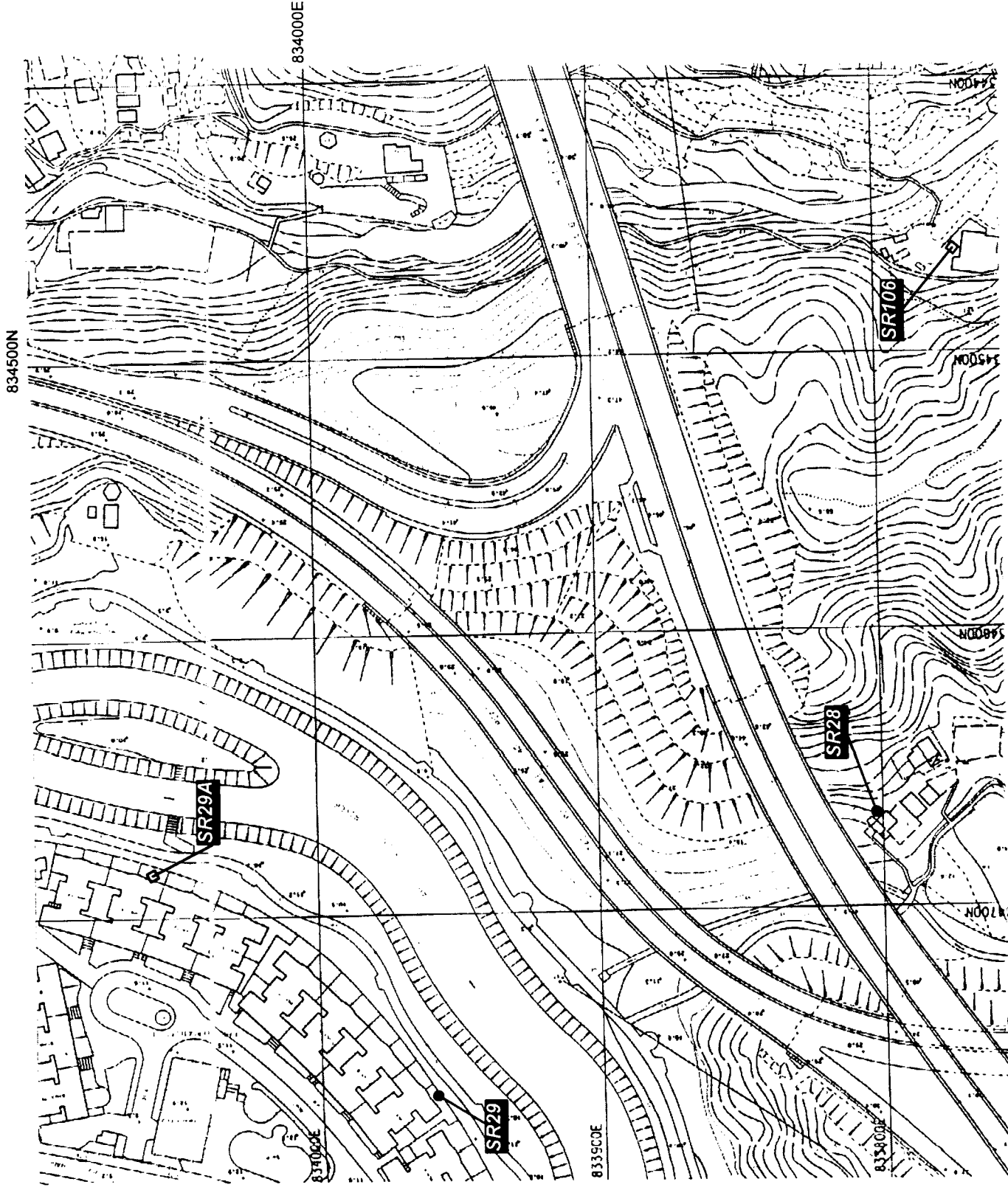
Parc Versailles 2

GF 69.5 dB(A)
 5/F 70.3 dB(A)

SR106

Shek Kwu Lung 7

GF 67.4 dB(A)



Rev	Date	By	Description	App	Checked	Checked
01	2000	DM	Design	DM	DM	DM
02	2000	DM	Check	DM	DM	DM
03	2000	DM	Check	DM	DM	DM
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97	2000	DM	Check	DM	DM	DM
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99	2000	DM	Check	DM	DM	DM
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 40/F Hopwood Centre
 183 Queen's Road East
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 Tel No. 2828 5757
 Fax No. 2827 1823

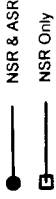
Investigation Assignment for Widening of
 Tolo Highway / Fanning Highway between
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Scale 1:2000
 Contract No. / Unit
 Drawing No. 5.1.15
 Rev D

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Legend



NSR = Noise Sensitive Receiver
 ASR = Air Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
 $L_{10,1}$ (Noise) db(A) (With Mitigation) and
 Traffic Related Air Quality

SR30A Shek Kwu Lung 4

G/F 69.4 dB (A)
 2/F 70.2 dB (A)

SR30B Shek Kwu Lung 5

G/F 61.6 dB (A)
 2/F 62.9 dB (A)

SR30C Shek Kwu Lung 6

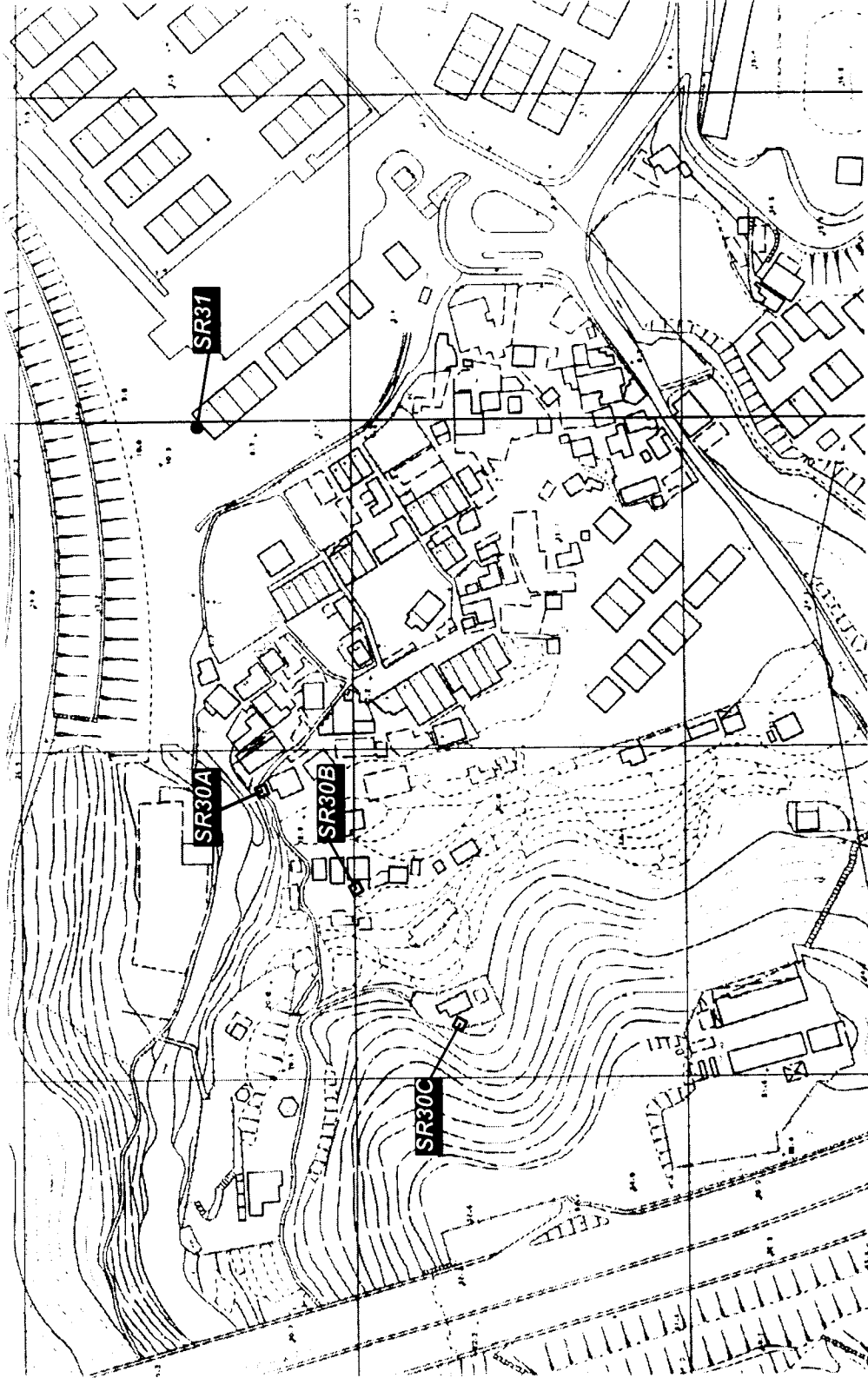
G/F 63.1 dB (A)
 2/F 65.7 dB (A)

SR31 Shek Kwu Lung 2

G/F 73.8 dB (A) 2/F NO₂ 241.9 $\mu\text{g}/\text{m}^3$
 2/F 74.6 dB (A) RSP 96.2 $\mu\text{g}/\text{m}^3$

834300E

834400N



Rev	Date	By	Check	Description
1	15/03/2020	Y. H. Yip	Y. H. Yip	Issue for MCL
2	15/03/2020	Y. H. Yip	Y. H. Yip	Issue for MCL

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Project: Investigation/Assignment for Widening of
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**Sensitive Receiver Locations at
 Shek Kwu Lung**

Scale: 1:2000
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 Drawing No: 5.1.16
 Rev: D

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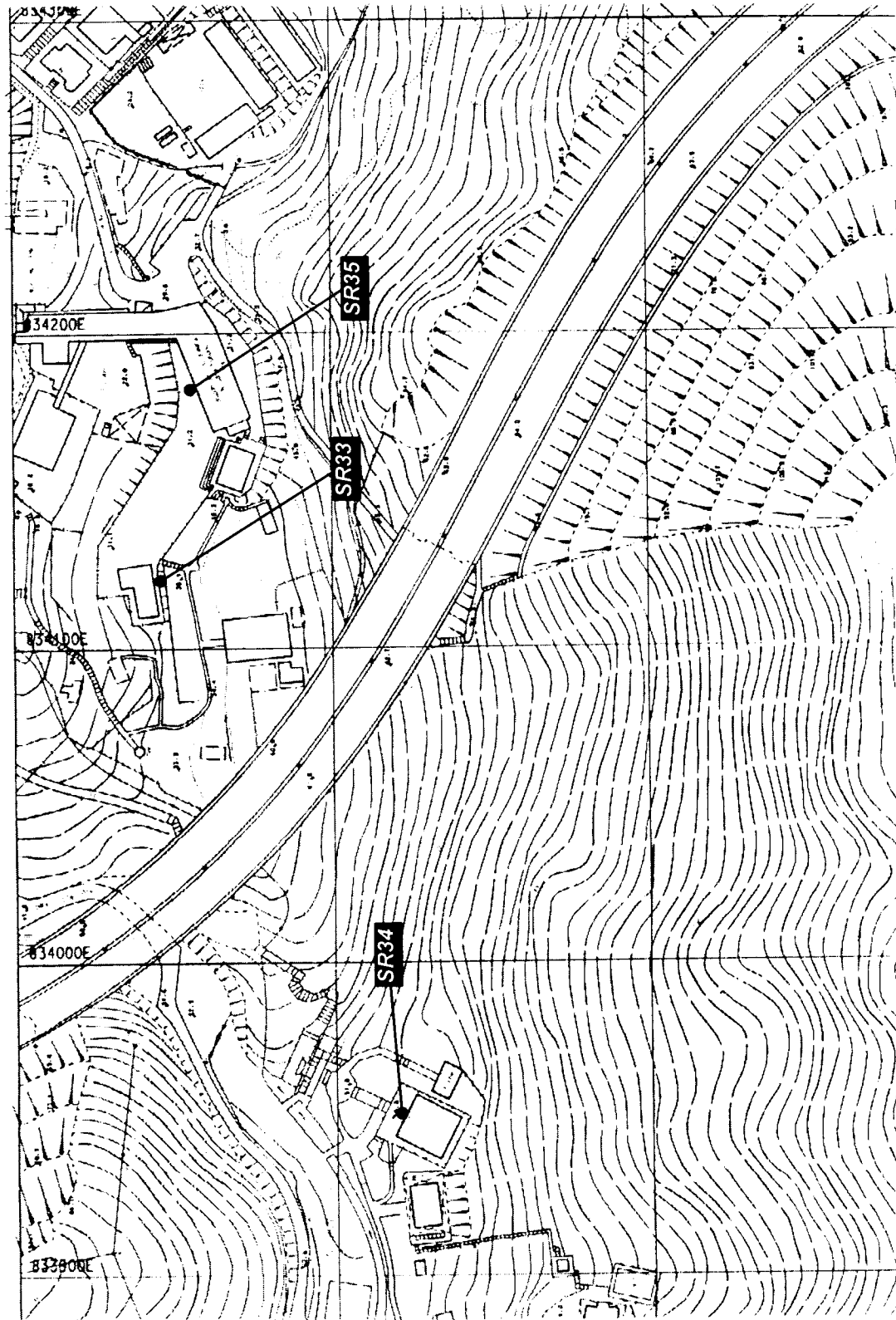
Drawing No

Legend

NSR & ASR

NSR = Noise Sensitive Receiver
ASR = Air Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
 $L_{\text{eq}}(1\text{hour})$ dB(A) (With Mitigation) and
Traffic Related Air Quality



SR33

Shek Kwu Lung 3

G/F 61.3 dB (A) G/F NO_x 237.4 $\mu\text{g}/\text{m}^3$
RSP 122.3 $\mu\text{g}/\text{m}^3$

SR34

Pun Chun Yuen

G/F 69.1 dB (A) G/F NO_x 153.2 $\mu\text{g}/\text{m}^3$
1/F 70.4 dB (A) RSP 89.1 $\mu\text{g}/\text{m}^3$

SR35

Buddhist Tai Kwong
Middle School

1/F 65.1 dB (A) 5/F NO_x 227.4 $\mu\text{g}/\text{m}^3$
RSP 109.3 $\mu\text{g}/\text{m}^3$

Rev	Date	By	Description	Sign	Check	App'd
01	2000	Green	Environ H.K. Ltd	2000	Checked	
02	2000	Green	Environ H.K. Ltd	2000	Checked	

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183 Queen's Road East
Hong Kong
Tel No. 2828 5757
Fax No. 2827 1823

Project
Investigation Assignment for Widening of
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Legend

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- NSR Only

NSR = Noise Sensitive Receiver
 ASR = Air Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
 $L_{A(1hr)}$ dB(A) (With Mitigation) and
 Traffic Related Air Quality

SR36

Ma Wo

G/F 65.3 dB (A) 1/F NO₂ 276.5 $\mu\text{g}/\text{m}^3$
 1/F 66.4 dB (A) RSP 146.8 $\mu\text{g}/\text{m}^3$

SR38

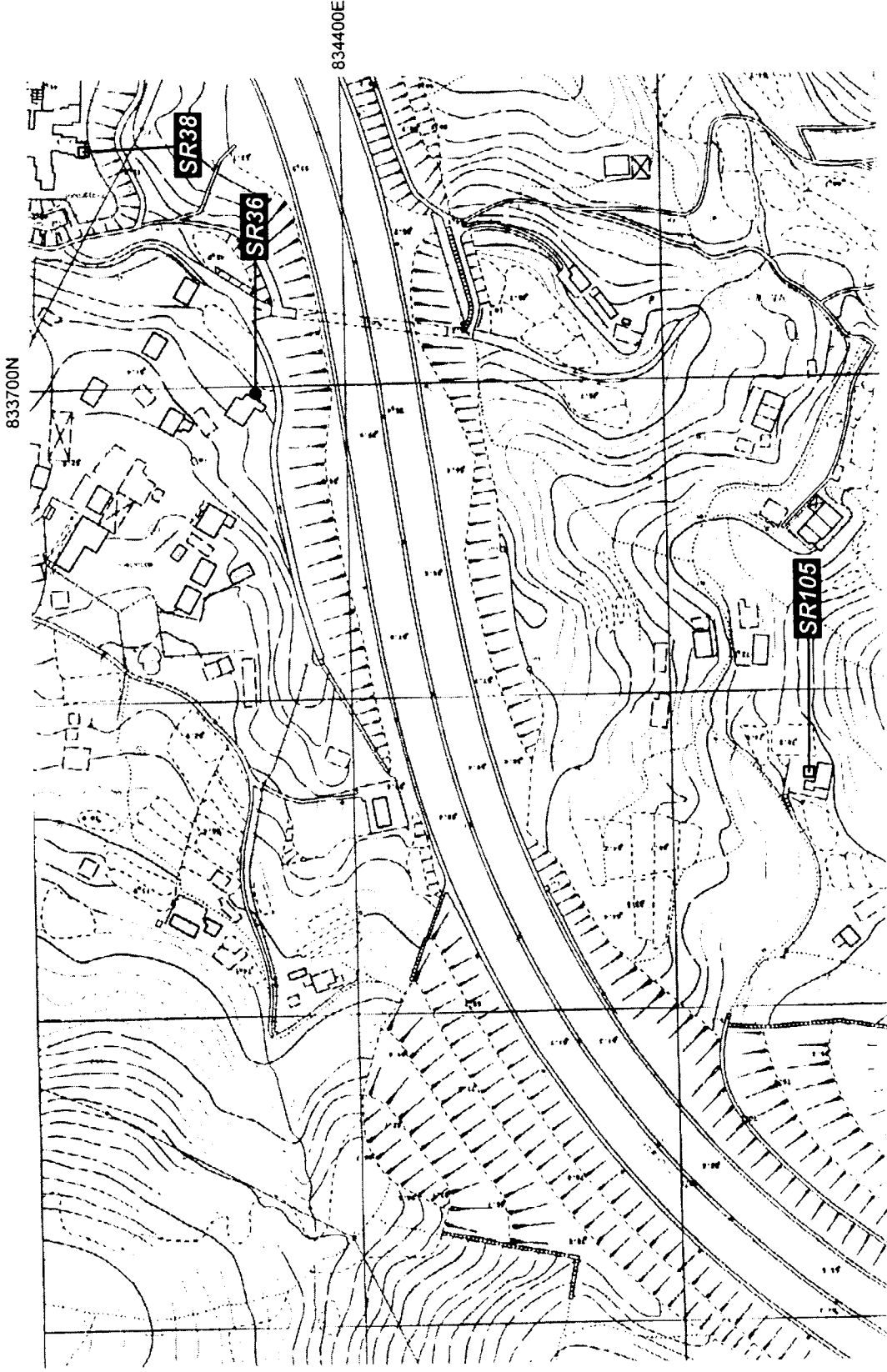
Dynasty View 1

1/F 63.1 dB (A)
 5/F 67.0 dB (A)
 8/F 69.6 dB (A)

SR105

Village House 2
 opposite to
 Dynasty View

G/F 67.4 dB (A)



Rev. Date Description
 Checked
 Drawn: Enrica H.K. Liu Date: Mar 2000
 Approved: For M.C. Date of Issue
 Client

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Consulting Engineering
**Mott
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 40/F Hopewell Centre
 183 Queen's Road East
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 Tel No: 2828 5151
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Project
 Investigation Assignment for Widening of
 Tolo Highway / Fungling Highway between
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**Sensitive Receiver Locations at
 Ma Wo & Dynasty View**

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 Drawing No 5 1 18
 Rev. D

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Legend

- NSR & ASR
- NSR Only

NSR = Noise Sensitive Receiver
 ASR = Air Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
 $L_{10(1hr)}$ dB(A) (With Mitigation) and
 Traffic Related Air Quality

SR39

The Paragon

1/F 65.0 dB(A) 1/F NO_x 186.4 $\mu\text{g}/\text{m}^3$
 5/F 68.3 dB(A) RSP 99.0 $\mu\text{g}/\text{m}^3$
 9/F 69.9 dB(A)

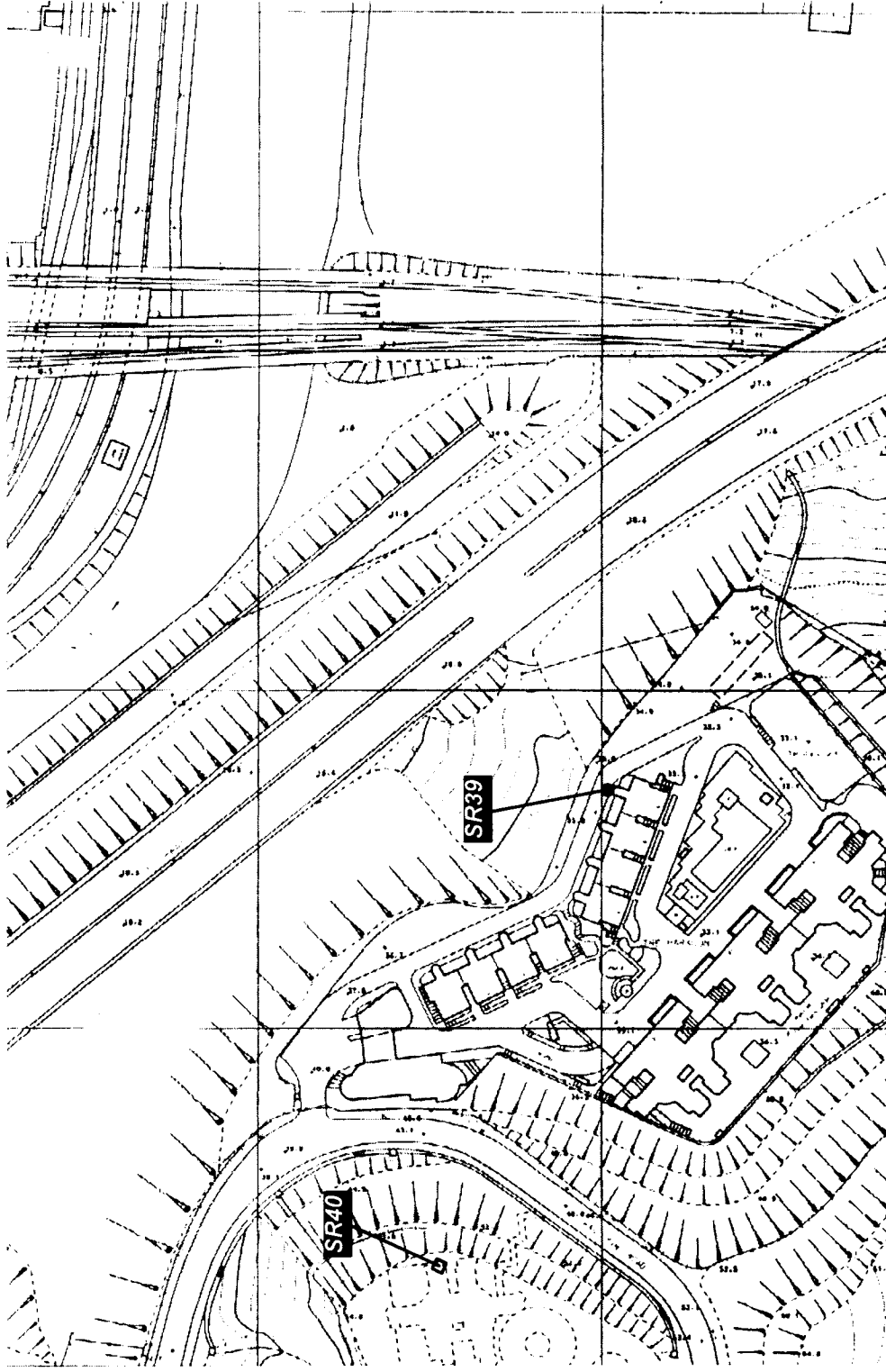
SR40

Grand Palisades

1/F 67.6 dB(A)
 6/F 69.7 dB(A)
 10/F 70.2 dB(A)

833900N

835800E



Rev.	Date	By	Checked	Description	Disc. Date	App'd
1				Issue Mar 2000		

Designed: Diana Entwistle H.K. Ltd
 Approved: For M.C.
 Checked: Date of Issue

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 Drawing No: 5.1.19
 Rev: D

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Legend

NSR

NSR = Noise Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
L_{10(1) Hour} dB(A) (With Mitigation)

SR41

Wong Shiu Chi Middle School

1/F 76.7 dB (A)
5/F 76.2 dB (A)

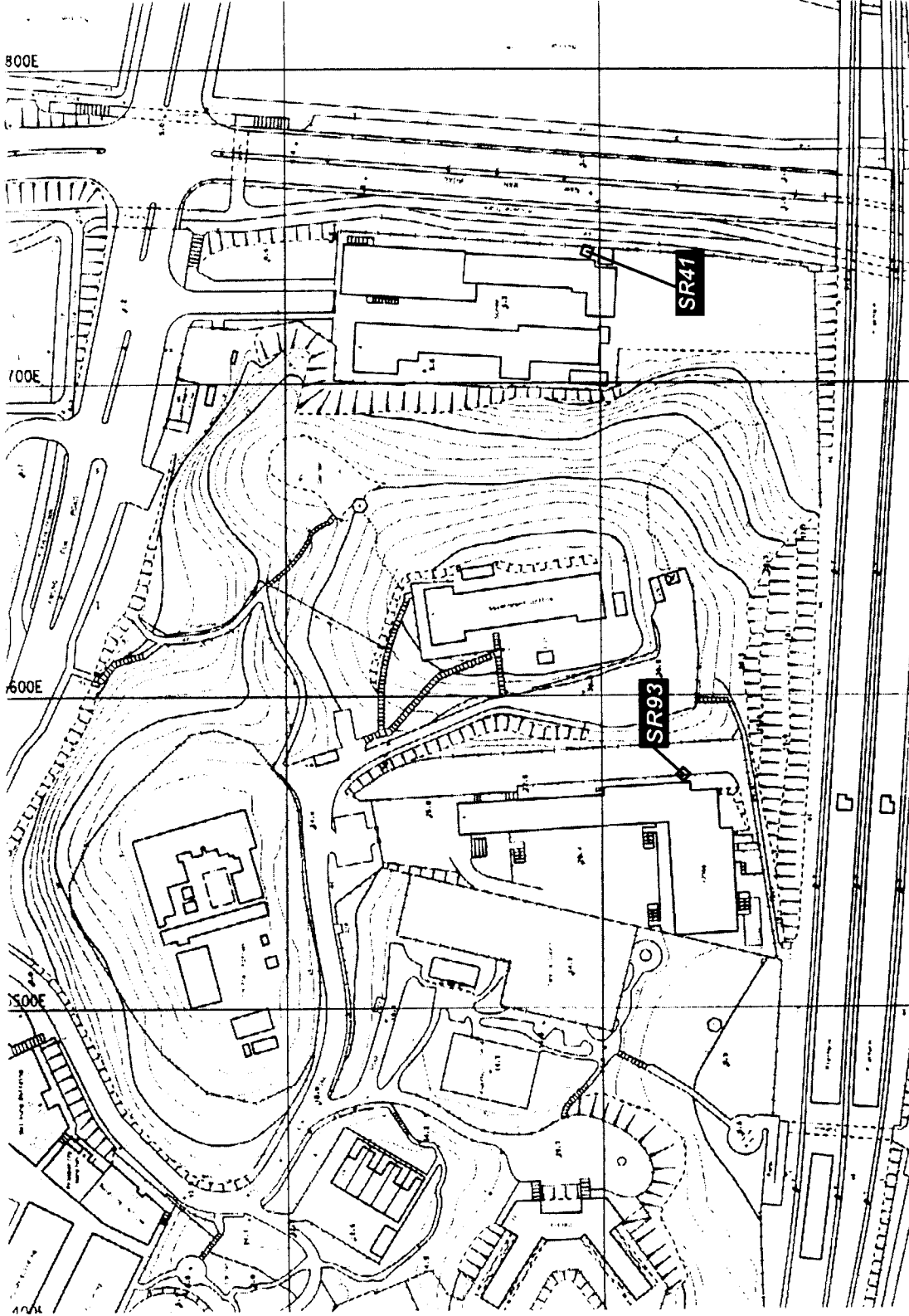
SR93

SKH Mok Sau Tsang Secondary School

1/F 62.9dB (A)
6/F 64.5 dB (A)

834100N

835800E



Rev.	Date	Description	Prepared	Checked
1	10/11/2000	Issue	10/11/2000	10/11/2000
2	10/11/2000	Issue	10/11/2000	10/11/2000
3	10/11/2000	Issue	10/11/2000	10/11/2000
4	10/11/2000	Issue	10/11/2000	10/11/2000
5	10/11/2000	Issue	10/11/2000	10/11/2000
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100	10/11/2000	Issue	10/11/2000	10/11/2000

The Government of the Hong Kong
Special Administrative Region
Highways Department
Major Works Project Management Office

Consulting Engineering
Mott Connell Ltd.
40/F, Hopewell Centre
183 Queens Road East
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Fax No. 2827 1823

Investigation Assignment for Widening of
Tolo Highway / Fanning Highway between
Island House Interchange and Fanning

Scale 1:2000
Contract No. / Unit
Drawing No. 5120
Rev. D

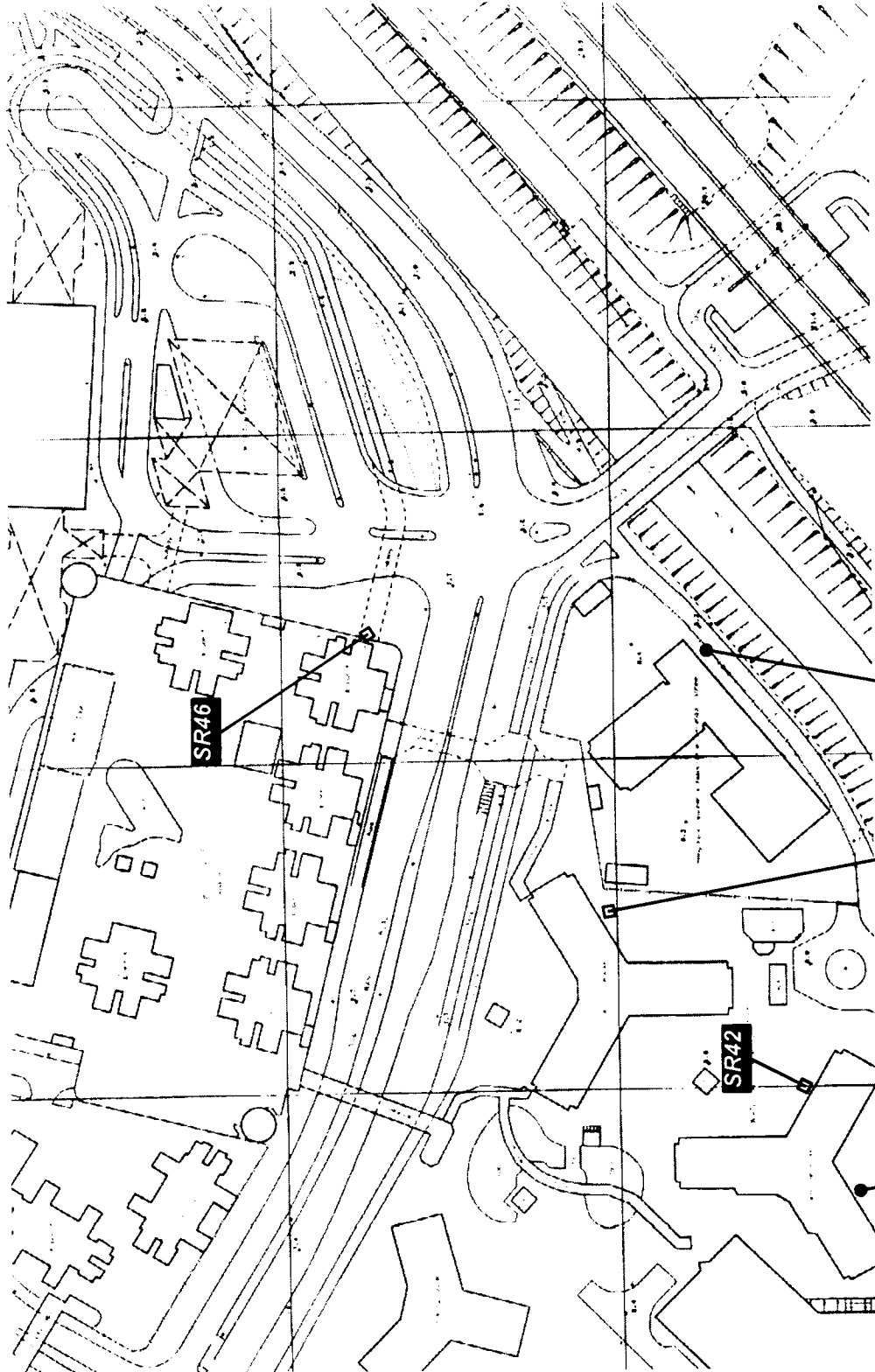
Sensitive Receiver Locations at
SKH Mok Sau Tsang
Secondary School &
Wong Shiu Chi Middle School

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835700E

833800N



Drawing No

Legend

- NSR & ASR
- NSR Only

NSR = Noise Sensitive Receiver
ASR = Air Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
Level (dB(A) (With Mitigation) and
Traffic Related Air Quality

SR42

Wan Tau Tong Estate
- Wan Lam House 1

- 1/F 59.2 dB (A)
- 15/F 61.8 dB (A)
- 31/F 63.2 dB (A)

SR43

Wan Tau Tong Estate
- Wan Lam House 2

- 1/F 56.6 dB (A) / 6/F NO_x 158.7 µg/m³
15/F 59.7 dB (A) RSP 83.6 µg/m³
31/F 63.4 dB (A)

SR44

Wan Tau Tong Estate
- Wan Loi House

- 1/F 65.6 dB (A)
- 15/F 65.7 dB (A)
- 31/F 66.6 dB (A)

SR45

HK Teacher's Association
Secondary School

- 1/F 64.5 dB (A) / 5/F NO_x 219.0 µg/m³
6/F 65.0 dB (A) RSP 98.2 µg/m³

SR46

Uptown Plaza

- 1/F 73.0 dB (A)
- 13/F 71.7 dB (A)
- 26/F 71.0 dB (A)

Rev	Date	By	Description	By	Checked
01	01/03/2000	DM	Design	DM	Checked
02	01/03/2000	DM	Design	DM	Checked
03	01/03/2000	DM	Design	DM	Checked
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50	01/03/2000	DM	Design	DM	Checked

Client: The Government of the Hong Kong Special Administrative Region
Highways Department
Major Works Project Management Office

Consulting Engineering
Mott Cornell Ltd.
40/F Hopewell Centre
183 Queen's Road East,
Hong Kong
Tel No. 2528 5757
Fax No. 2827 1823

Project: Investigation Assignment for Widening of
Tolo Highway / Faning Highway between
Island House Interchange and Faling

Site: Sensitive Receiver Locations at
Wan Tau Tong Estate &
Uptown Plaza

Mott Cornell
Scale: 1:2000
Contact No. / Unit: 51 21
Drawing No.: 5.1.21
Rev: D
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Drawing No.

Legend

- NSR & ASR
- ASR Only
- NSR Only
- NSR = Noise Sensitive Receiver
- ASR = Air Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
Level (dB(A) (With Mitigation) and
Traffic Related Air Quality

SR47 - Wang Fuk Court
- Wang Cheong House 1
1/F 73.2 dB(A) 3/F NO_x 237.6 µg/m³
15/F 77.3 dB(A) RSP 108.3 µg/m³
31/F 76.1 dB(A)

SR48 - Wang Fuk Court
- Wang Cheong House 2
1/F 68.6 dB(A)
15/F 77.0 dB(A)
31/F 75.4 dB(A)

SR49 - Wang Fuk Court
- Wang Cheong House 3
1/F 74.3 dB(A)
15/F 74.8 dB(A)
31/F 73.8 dB(A)

SR50 - Wang Fuk Court
- Wang Tai House
1/F 76.5 dB(A)
15/F 76.0 dB(A)
31/F 74.6 dB(A)

SR51 - Wang Fuk Court
- Wang Shing House
1/F 70.7 dB(A)
15/F 76.9 dB(A)
31/F 75.2 dB(A)

SR73 Island House Conservation
Studios Centre
GF 70.4 dB(A) GF NO_x 225.5 µg/m³
1/F 70.5 dB(A) GF RSP 105.9 µg/m³

SR74 Yuen Chau Tsui -
Tennis Court
GF NO_x 281.6 µg/m³
RSP 118.5 µg/m³

Revised Date Location
Designed Date Checked Date
Drawn Date Checked Date
Approved For M.C. Date of Issue
Client

The Government of the Hong Kong
Special Administrative Region
Highways Department
Major Works Project Management Office

Consulting Engineering
Mott Connell Ltd.
40/F Hospital Centre
183 Queen's Road East,
Hong Kong

Investigation Assignment for Widening of
Tolo Highway / Fanning Highway between
Island House Interchange and Fanning

Sensitive Receiver Locations at
Wang Fuk Court &
Yuen Chau Tsui

Scale 1:2000
Mott Connell
Contract No / Unit
Drawing No 5.1.22

Copyright Reserved
CAD File

836400E

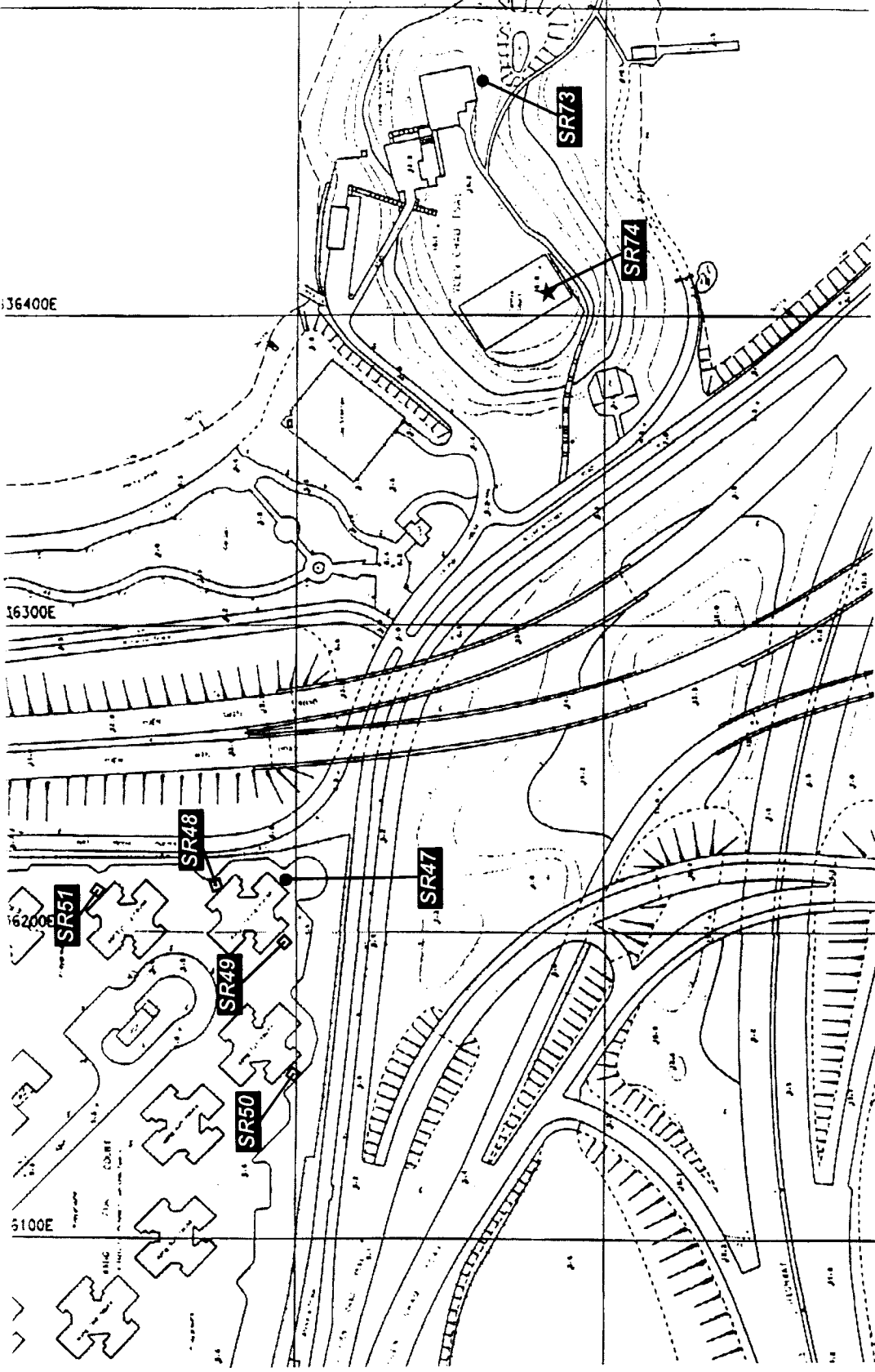
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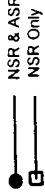
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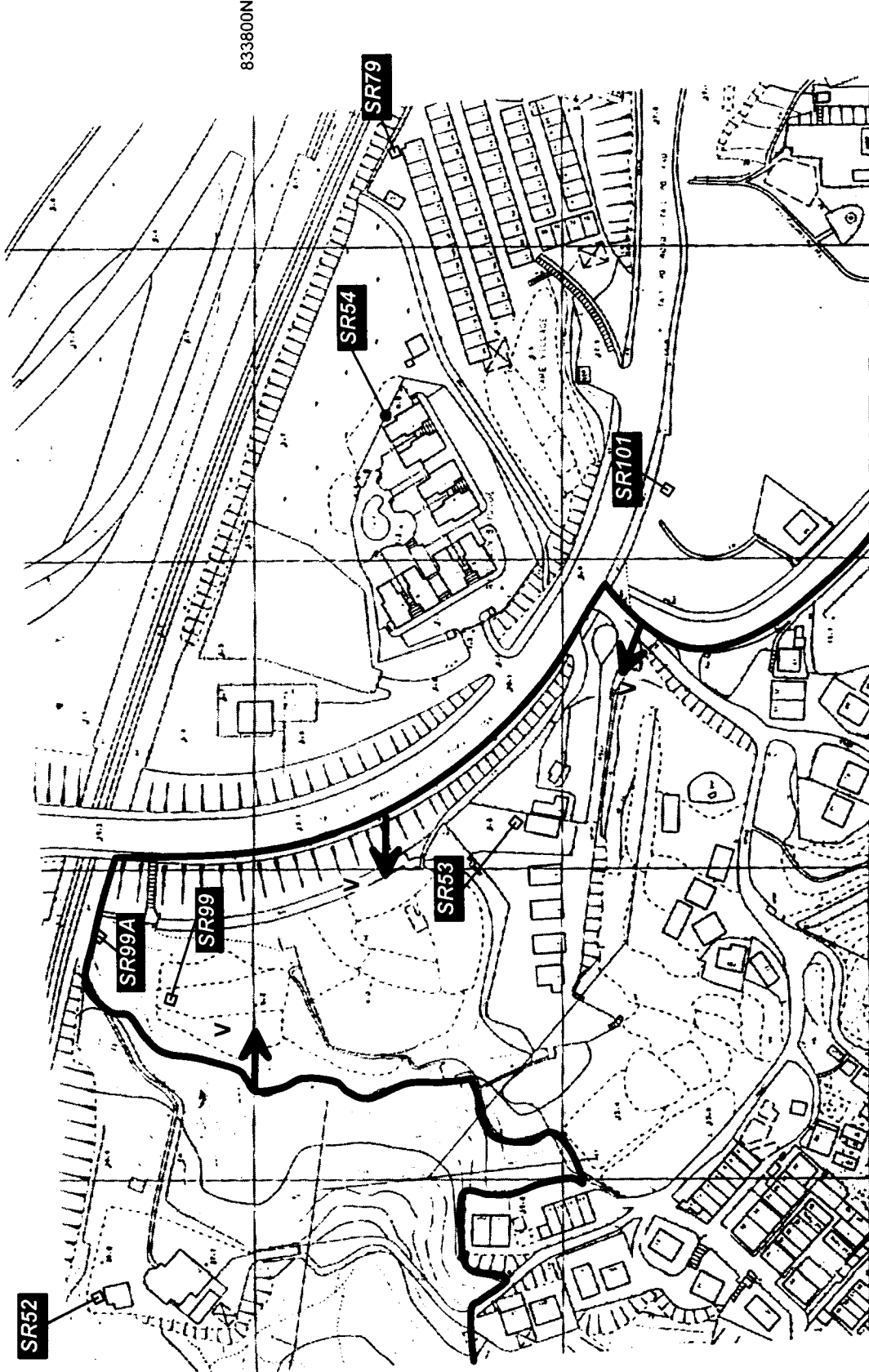




NSR = Noise Sensitive Receiver
ASR = Air Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
L_{day, even} dB(A) (With Mitigation) and
Traffic Related Air Quality

836400E



833800N

SR52 Ha Wong Yi, Au 1

G/F 66.7 dB (A)
2/F 69.8 dB (A)

SR53 Ha Wong Yi, Au 2

G/F 73.0 dB (A)
1/F 74.0 dB (A)

SR54 Riverrain Bayside

G/F 66.5 dB (A) G/F NO₂ 182.0 $\mu\text{g}/\text{m}^3$
2/F 69.1 dB (A) RSP 86.2 $\mu\text{g}/\text{m}^3$

SR79 Care Village

G/F 64.1 dB (A)
2/F 66.5 dB (A)

SR99 Ha Wong Yi, Au 3

G/F 67.4 dB (A)
2/F 70.1 dB (A)

SR99A Ha Wong Yi, Au 4

G/F 73.9 dB (A)
2/F 74.4 dB (A)

SR101 Chateau Royale

1/F 76.2 dB (A)
2/F 75.9 dB (A)

V Village Zone Area

Ref: OZP No. S/TP/11

Rev.	Date	By	Description
1	2000	EM	Issue for Approval
2	2000	EM	Issue for Approval
3	2000	EM	Issue for Approval

Designed: Enteco HK Ltd Date: Mar 2000
 Approved: For M.C. Date of Issue
 Client: The Government of the Hong Kong
 Special Administrative Region
 Highways Department
 Maps Works Project Management Office

Consulting Engineering
Mott Connell Ltd.
 40/F Hopwood Centre
 183 Queen's Road East
 Hong Kong
 Tel No. 2828 5157
 Fax No. 2827 1823

Project: Investigation Assignment for Widening of
 Tolo Highway / Failing Highway between
 Island House Interchange and Failing

Sensitive Receiver Locations at
Ha Wong Yi Au &
Riverrain Bayside &
Chateau Royale

Scale: 1:2000
 Contract No: / Unit
 Drawing No: 5.1.23
 Rev: D

Drawing No

Legend

- NSR & ASR
- NSR Only
- NSR = Noise Sensitive Receiver
- ASR = Air Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
L_{10,15} (dB(A)) (With Mitigation) and
Traffic Related Air Quality

SR55 Dynasty View 2

1/F 61.9 dB(A) 8/F NO₂ 190.3 µg/m³
4/F 64.4 dB(A) RSP 98.9 µg/m³
8/F 68.4 dB(A)

SR56 Monastery at Ma Wo

GF 64.0 dB(A) 1/F NO₂ 181.3 µg/m³
1/F 65.1 dB(A) RSP 99.7 µg/m³

SR78 Dynasty View 3

1/F 59.8 dB(A) 8/F NO₂ 157.9 µg/m³
5/F 62.4 dB(A) RSP 88.8 µg/m³
8/F 64.6 dB(A)

SR91 New R(B) Zone near To Yeun Tung 1

1/F 57.1 dB(A)
4/F 59.0 dB(A)
8/F 65.8 dB(A)

SR92 New R(B) Zone near To Yeun Tung 2

1/F 58.0 dB(A)
4/F 59.3 dB(A)
8/F 70.2 dB(A)

SR103 Classical Garden

1/F 74.2 dB(A)
4/F 72.9 dB(A)
8/F 71.2 dB(A)

R(B) Residential Zone B
GB Green Belt Area
Ref. OZP No. STP11

Rev	Date	By	Checked	Appr	Checked
Design	Enrica HK Ltd	Date	Mar 2000	Checked	
Approved		For M.O.	Date of issue		
Client	The Government of the Hong Kong Special Administrative Region				
	Highways Department				
	Major Works Project Management Office				
	Consulting Engineering				
	Mott Connell Ltd.				
	40/F Hopwood Centre				
	183 Queen's Road East				
	Hong Kong				
Project	Investigation Assignment for Widening of Tolo Highway / Fooking Highway between Island House Interchange and Fooking				
Tel No	2828 5757				
Fax No	2827 1823				

The Government of the Hong Kong Special Administrative Region
Highways Department
Major Works Project Management Office
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Fax No 2827 1823

Investigation Assignment for Widening of Tolo Highway / Fooking Highway between Island House Interchange and Fooking

Scale 1:2000
Contract No / Unit
Drawing No 5.1.24

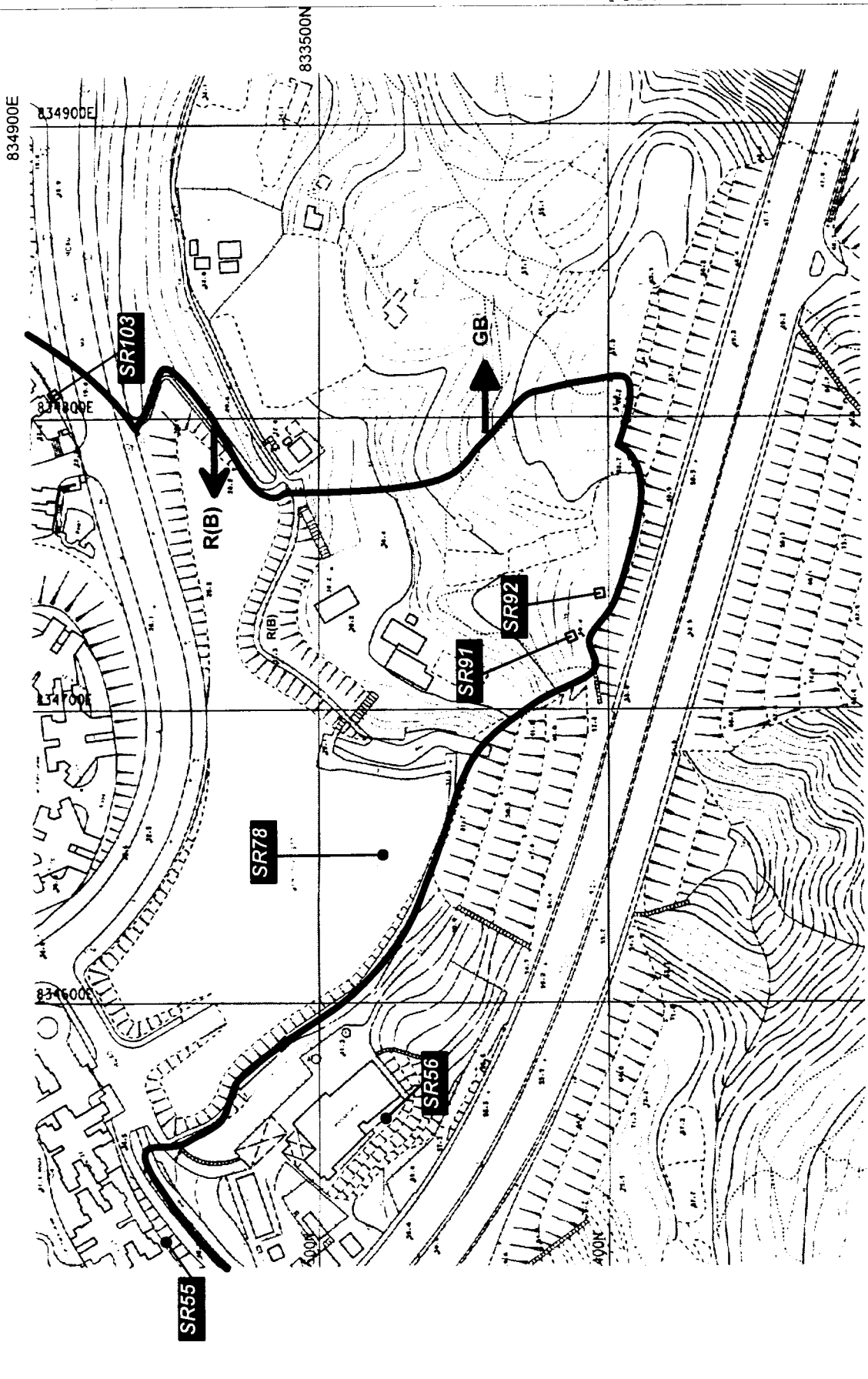
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Sensitive Receiver Locations at Dynasty View & Monastery at Ma Wo & Classical Garden

Scale 1:2000
Contract No / Unit
Drawing No 5.1.24

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Sensitive Receiver Locations at Dynasty View & Monastery at Ma Wo & Classical Garden



Drawing No

Legend

NSR & ASR

NSR Only

NSR = Noise Sensitive Receiver

ASR = Air Sensitive Receiver

835200E

833300N

Predicted Year 2020 Road Traffic Noise
 L_{10+10} (road) dB(A) (With Mitigation) and
Traffic Related Air Quality

SR62

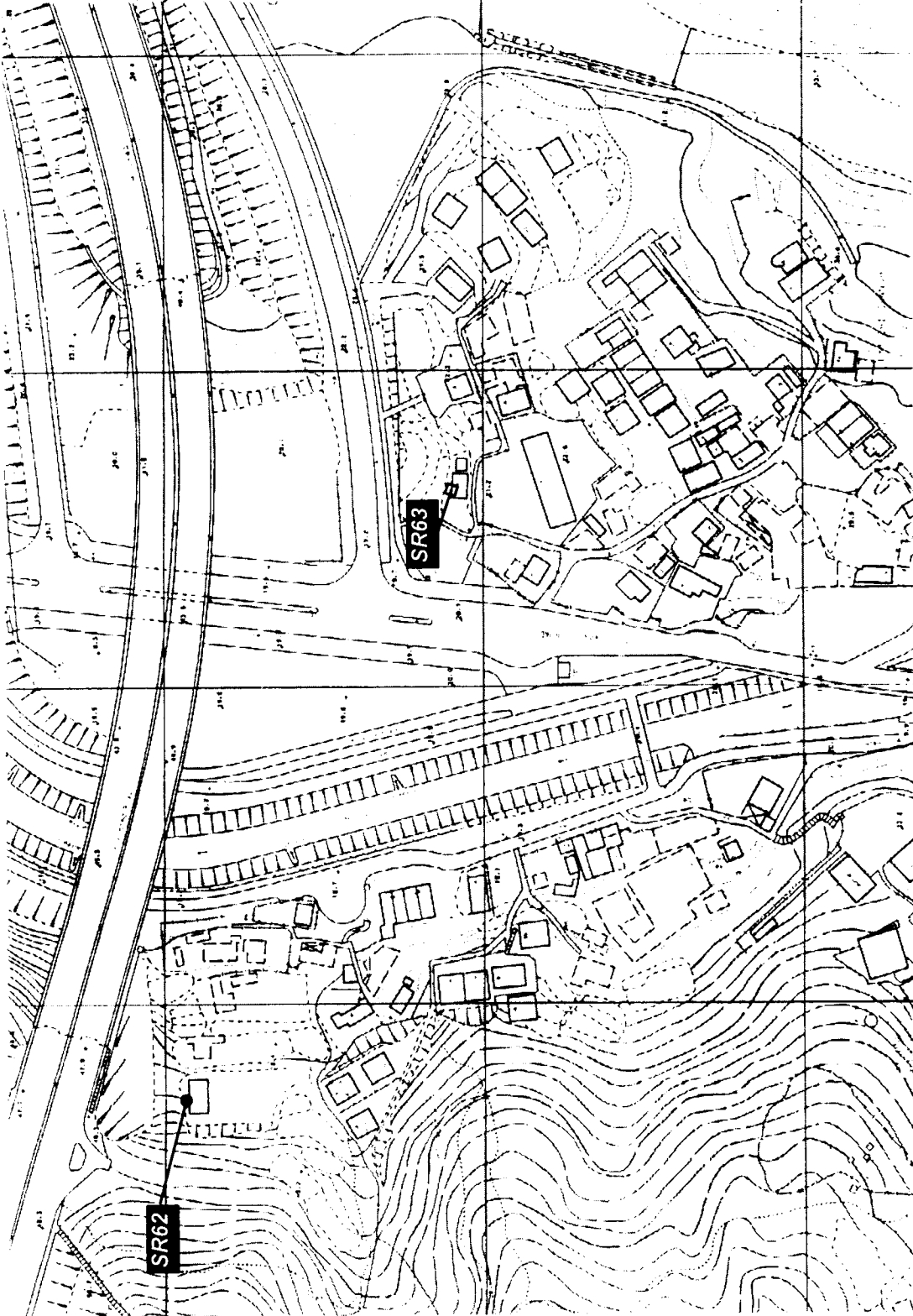
Ha Wun Yiu

G/F 61.5 dB(A) 1/F NO_x 240.2 $\mu\text{g}/\text{m}^3$
1/F 62.4 dB(A) RSP 126.5 $\mu\text{g}/\text{m}^3$

SR63

Lai Chi Shan

G/F 69.0 dB(A)
1/F 70.1 dB(A)



Rev:	Date:	Dis:	Description:	Up:	On:	App:
Design:	Drawn:	Checked:	Checked:			
Approved:	For M.C.:	Date of Issue:				

The Government of the Hong Kong
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Highways Department
Major Works Project Management Office
Consulting Engineer
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40/F Hopewell Centre
183 Queen's Road East
Hong Kong
Tel No: 2825 5757
Fax No: 2827 1823

Project: Investigation Assignment for Widening of
Tolo Highway / Fanning Highway between
Island House Interchange and Fanning

Sensitive Receiver Locations at
Ha Wun Yiu & Lai Chi Shan

Scale: 1:2000
Contract No: / Unit:
Drawing No: 5.1.26
Rev: D
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Drawing No

Legend

- NSR & ASR
- NSR Only

NSR = Noise Sensitive Receiver
 ASR = Air Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
 L_{10+15} hour, dB(A) (With Mitigation) and
 Traffic Related Air Quality

SR64

Shan Tong
 New Village 1

G/F 68.6 dB(A) G/F NO₂ 227.9 $\mu\text{g}/\text{m}^3$
 2/F 69.7 dB(A) RSP 120.1 $\mu\text{g}/\text{m}^3$

SR65

Shan Tong
 New Village 2

G/F 66.5 dB(A)
 2/F 67.9 dB(A)

835600E

835600E

835600E

835400E

835300E

833500N

833500N

No.	Date	By	Description	Appr.	Use	Revised
1	15 Mar 2000	Checked	Checked			
2	15 Mar 2000	Checked	Checked			
3	15 Mar 2000	Checked	Checked			

The Government of the Hong Kong
 Special Administrative Region
 Highways Department

Major Works Project Management Office

Consulting Engineers
Mott Connell Ltd

40/F Hopewell Centre
 183 Queens Road East
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Tel No 2828 5757
 Fax No 2827 1823

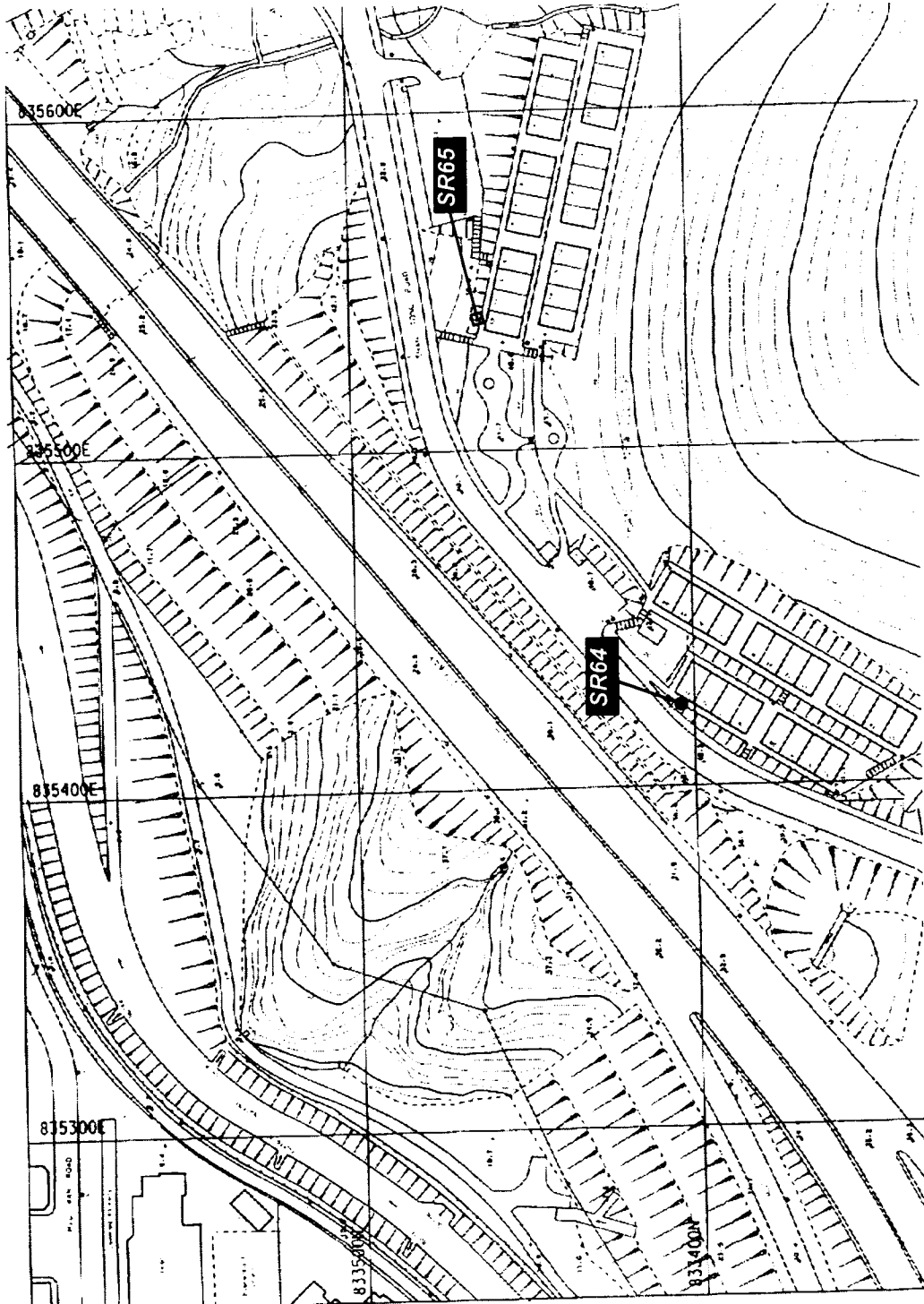
Project: Investigation Assignment for Widening of
 Tolo Highway / Fanning Highway between
 Island House Interchange and Fanning

1 of 4

Sensitive Receiver Locations at
 Shan Tong New Village

Scale	1:2000
Contract No / Unit	
Drawing No	51.27
Revision	D

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Drawing No

Legend

- NSR & ASR
- NSR Only
- NSR = Noise Sensitive Receiver
- ASR = Air Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
 $L_{101}(\text{hour})$ dB(A) (With Mitigation)

SR67 Redland Garden

- 1/F 68.2 dB(A)
- 6/F 71.5 dB(A)

SR100 KCRC Staff Quarters

- G/F 61.6 dB(A) 1/F NO, 174.8 $\mu\text{g}/\text{m}^3$
- 3/F 67.1 dB(A) RSP 92.8 $\mu\text{g}/\text{m}^3$
- 6/F 72.2 dB(A)

837000E

837000E

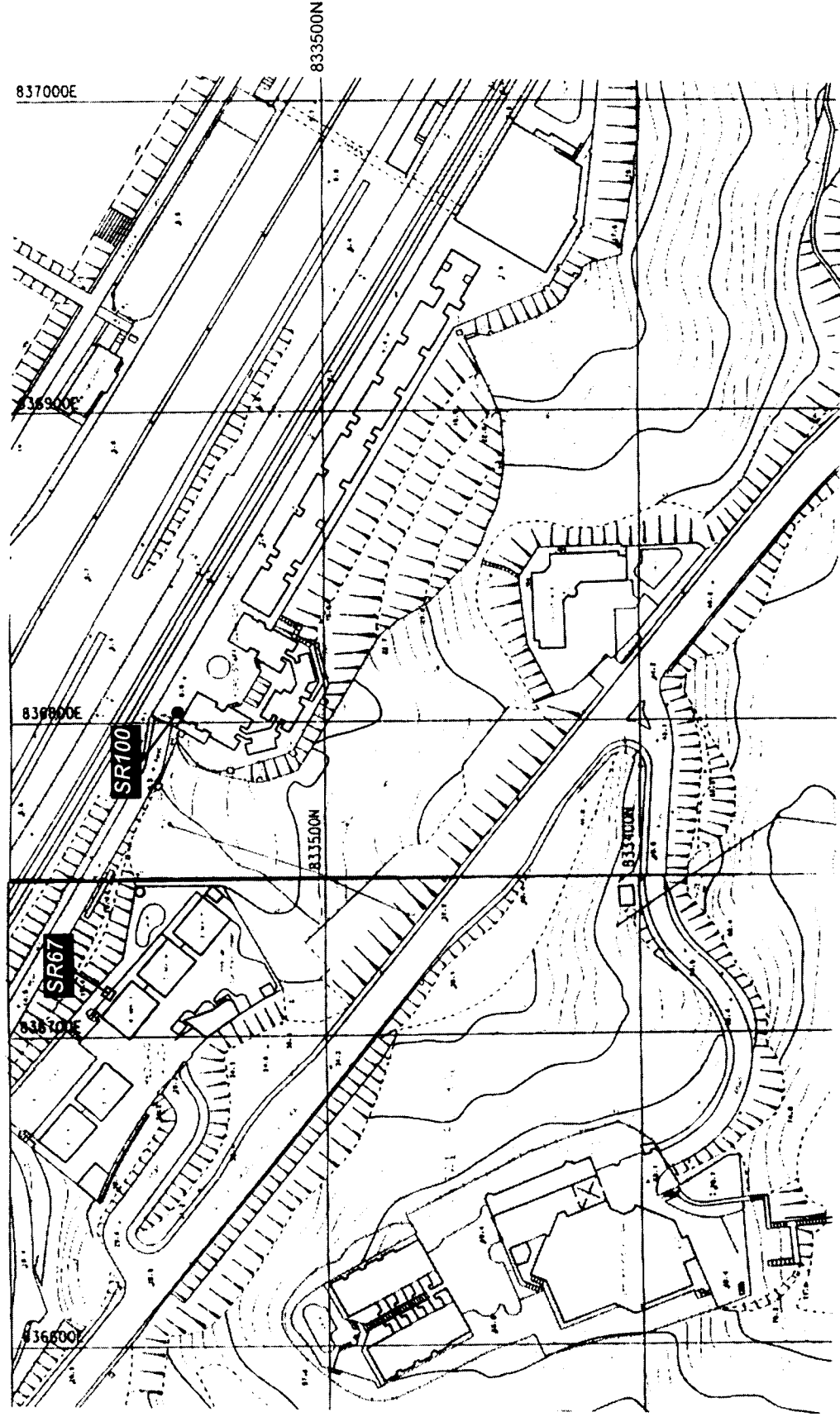
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833500N



Rev	Date	By	CHK	App'd
01	10/01/2000	Y. C. Yip	Y. C. Yip	Y. C. Yip

Checked: []
 Date: Mar. 2000
 Approved: For M.C. [] Date of issue: []

Mott
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Mott Connell Ltd
 40/F Hopewell Centre
 183 Queens Road East
 Hong Kong
 Project:

The Government of the Hong Kong
 Special Administrative Region
 Highways Department
 Major Works Project Management Office

Tel No. 2828 5757
 Fax No. 2827 1823

Investigation Assignment for Widening of
 Toke Highway / Fanning Highway between
 Island House Interchange and Fanning

**Sensitive Receiver Location at
 Redland Garden &
 KCRC Staff Quarters**

Mott
 Mott
 Connell

Scale 1:2000
 Contact No. / Unit
 Drawing No 5.1.28
 Rev D

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Drawing No

Legend

- NSR & ASR
- ★— ASR Only

NSR = Noise Sensitive Receiver
 ASR = Air Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
 $L_{10,15hr}$ dB(A) (With Mitigation) and
 Traffic Related Air Quality

SR68

Island House Park
 - Bicycle Track

G/F NO. 198.3 $\mu\text{g}/\text{m}^3$
 RSP 93.9 $\mu\text{g}/\text{m}^3$

SR69

Island House Park
 - Garden

G/F NO. 169.0 $\mu\text{g}/\text{m}^3$
 RSP 86.9 $\mu\text{g}/\text{m}^3$

SR70

Kwong Fuk Estate
 - Kwong Lai House

1/F 77.1 dB (A) 2/F NO. 188.5 $\mu\text{g}/\text{m}^3$
 12/F 78.0 dB (A) RSP 90.7 $\mu\text{g}/\text{m}^3$
 23/F 76.6 dB (A)

836400E

834400N

SR70

SR69

SR68

834300N



Rev	Date	By	Description	Checked
01	01/03/2000	Y. H. Yip	Issue for Approval	Y. H. Yip
02	01/03/2000	Y. H. Yip	Issue for Approval	Y. H. Yip

Drawn: Enrica H. K. Ltd. Date: Mar 2000
 Checked: Y. H. Yip
 Approved: Y. H. Yip
 Client: The Government of the Hong Kong Special Administrative Region
 Highways Department
 Major Works Project Management Office

Consulting Engineering
Mott
Connell
 Mott Connell Ltd.
 40/F Hopewell Centre
 183 Queen's Road East,
 Hong Kong
 Tel. No. 2838 5252
 Fax. No. 2827 1823

Project: Investigation Assignment for Widening of
 Tolo Highway / Fanning Highway between
 Island House Interchange and Fanning

Scale: 1:2000
 Contract No. / Unit:
 Drawing No. 5.1.29
 Revision: D

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Sensitive Receiver Locations at
 Kwong Fuk Estate &
 Island House Park

Drawing No.

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- NSR & ASR
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NSR = Noise Sensitive Receiver
 ASR = Air Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
 $L_{10-18hr}$ dB(A) (With Mitigation) and
 Traffic Related Air Quality

SR76

Yuen Leng 1
 G/F 70.0 dB (A)
 5/F 70.1 dB (A)

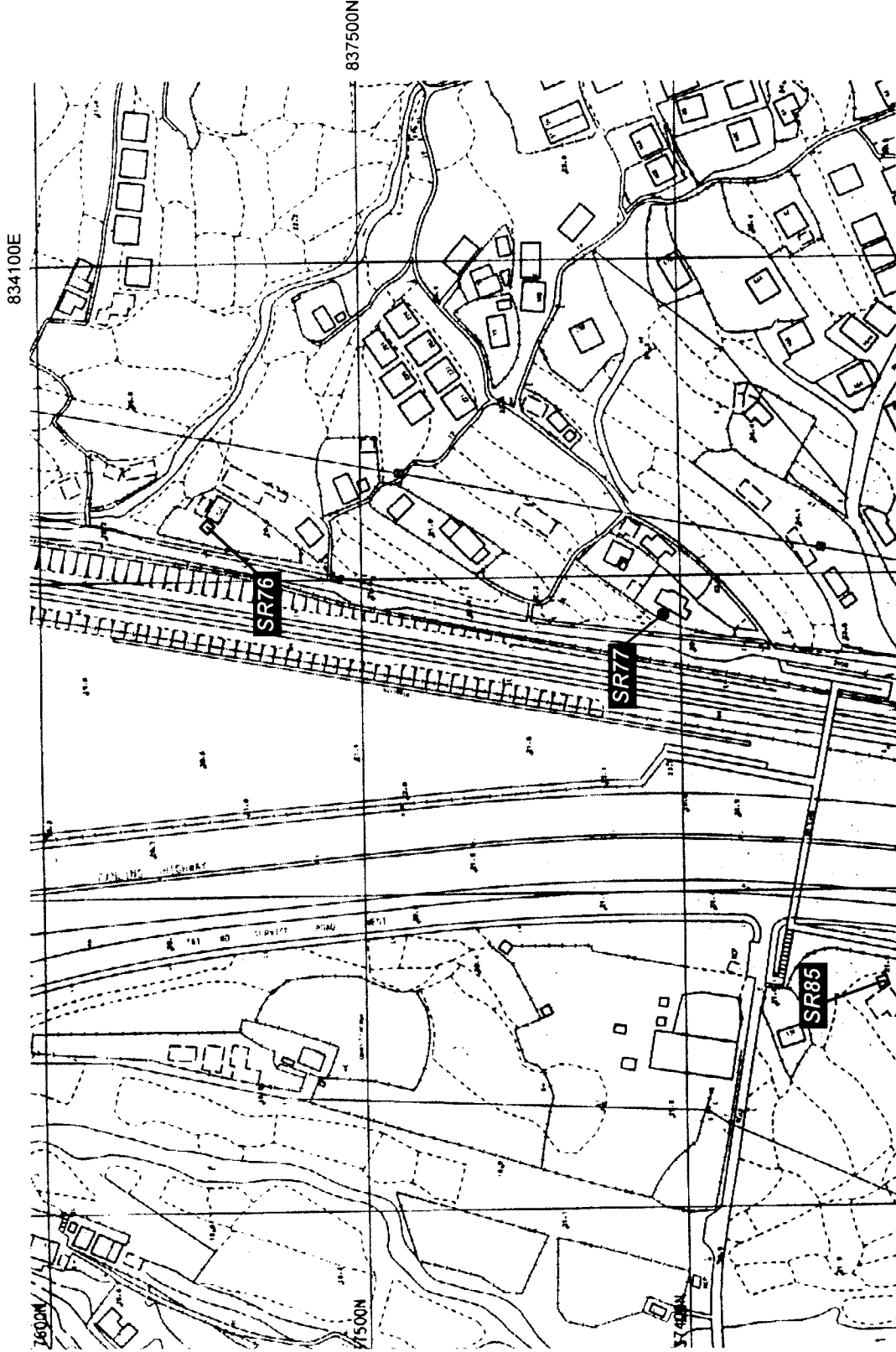
SR77

Yuen Leng 2

G/F 70.0 dB (A) G/F NO_x 216.3 $\mu\text{g}/\text{m}^3$
 2/F 70.3 dB (A) RSP 111.1 $\mu\text{g}/\text{m}^3$

SR85

Nam Wa Po 3
 G/F 66.1 dB (A)
 2/F 69.9 dB (A)



No.	Date	By	Description	Log	Checked	Approved
Drawn	28/05/2007	ETW	Initial			
Checked	28/05/2007	ETW	Initial			
Approved	28/05/2007	ETW	Initial			

The Government of the Hong Kong
 Special Administrative Region
 Highways Department
 Major Works Project Management Office

Consulting Engineering
Mott Connell Ltd.
 181 Queen's Road East
 Hong Kong
 Tel No. 2878 5757
 Fax No. 2827 1823

Investigation Assignment for Widening of
 Tolo Highway / Fanning Highway between
 Island House Interchange and Fanning

Rev

Sensitive Receiver Locations at
 Yuen Leng & Nam Wa Po



Drawing No
Legend

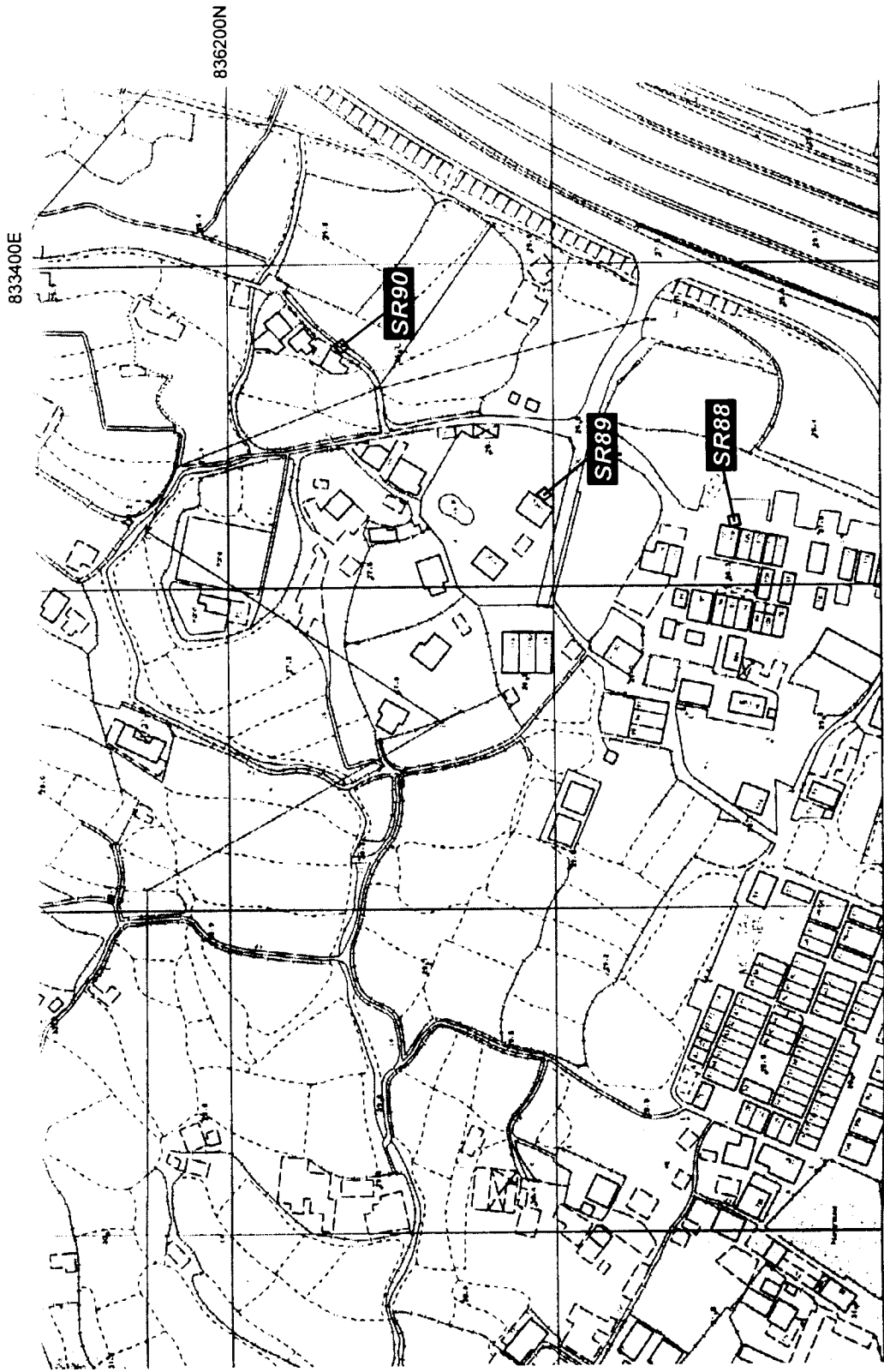
NSR Only
NSR = Noise Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
L_{night} (dB(A) (With Mitigation))

SR88
Wai Tau Tsuen 5
G/F 68.4 dB (A)
2/F 69.8 dB (A)

SR89
Wai Tau Tsuen 6
G/F 68.9 dB (A)
2/F 69.6 dB (A)

SR90
Wai Tau Tsuen 7
G/F 66.6 dB (A)
2/F 68.0 dB (A)



Rev	Date	By	Checked	Drawn	Scale
01	10/03/2000	Y. H. Yip	C. H. Yip	C. H. Yip	1:2000

Client: The Government of the Hong Kong Special Administrative Region
 Major Works Project Management Office
 Mott Connell Ltd.
 Consulting Engineers
 40/F Hopewell Centre
 183 Queen's Road East
 Hong Kong
 Tel No: 2828 9157
 Fax No: 2827 1823

Project: Investigation Assignment for Widening of Tolo Highway / Easing Highway between Island House Interchange and Fanning

Sensitive Receiver Locations at
Wai Tau Tsuen

Scale: 1:2000
 Contract No.: /
 Drawing No.: 5131
 Issue: D

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NSR Only

NSR = Noise Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
L_{10,1500} dB(A) (With Mitigation)

SR81

Wai Tau Tsuen 4

G/F 62.8 dB (A)
2/F 69.1 dB (A)

SR108

Wai Tau Tsuen 5

G/F 63.1 dB (A)
2/F 63.8 dB (A)

Rev	Date	Description	By	Chk	Appvd
01	18 Mar 2000	Drawn	Enrica H.K. Liu	Checked	
02	18 Mar 2000	Drawn	Enrica H.K. Liu	Checked	
03	18 Mar 2000	Drawn	Enrica H.K. Liu	Checked	

The Government of the Hong Kong
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Highways Department
Major Works Project Management Office

Mott Connell Ltd.
40/F Hopewell Centre
118 Queen's Road East
Hong Kong
Tel No. 2838 5151
Fax No. 2827 1823

Investigation Assignment for Widening of
Tolo Highway / Fanning Highway between
Island House Interchange and Fanning

Sensitive Receiver Locations at
Wai Tau Tsuen

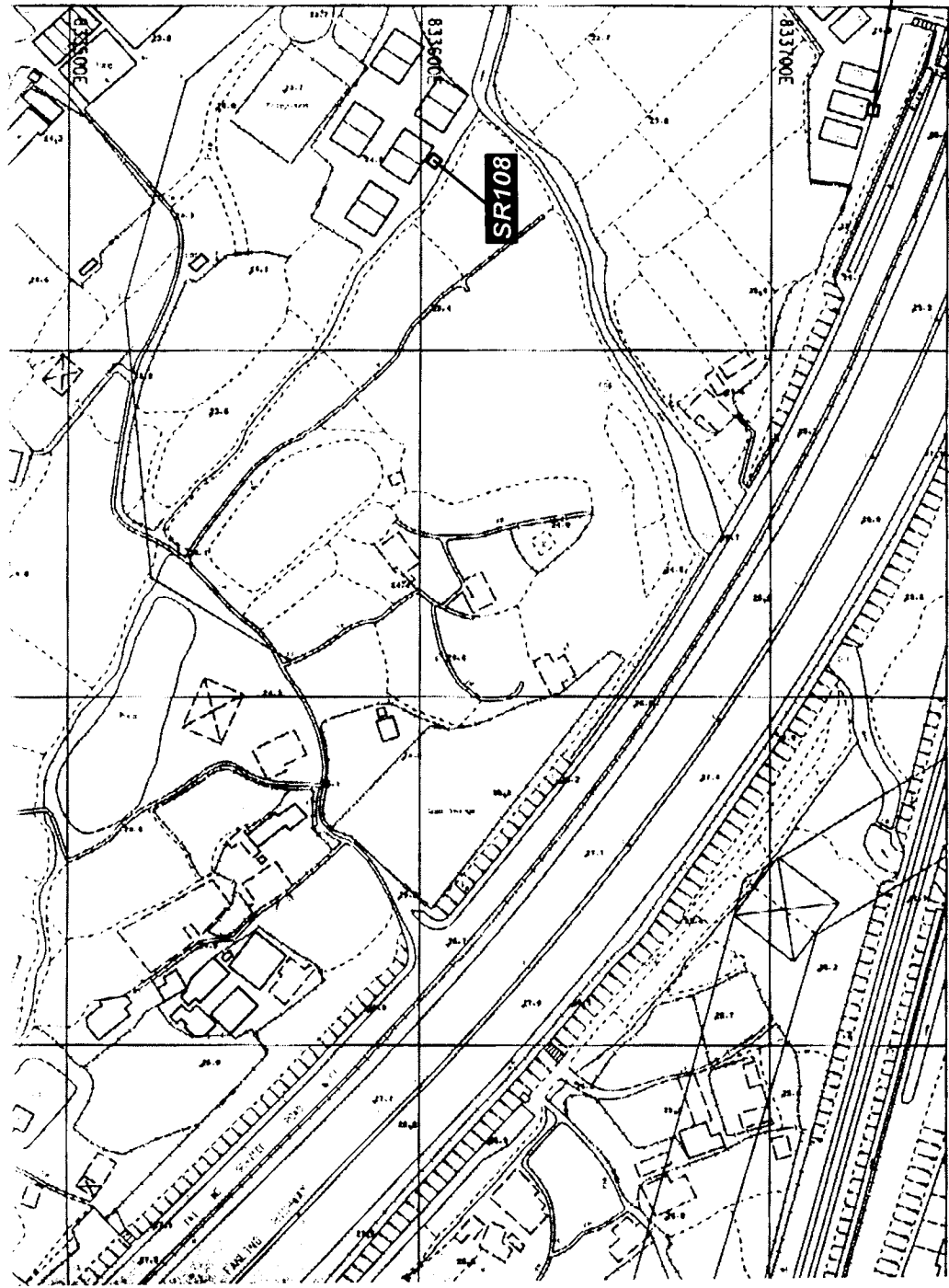
Scale 1:2000
Contract No / Unit
Drawing No 5.1.32
Rev D

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836500N

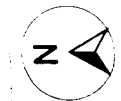
833500E



35W23C

SR81

SR108



Drawing No
Legend

□ NSR Only
□ NSR = Noise Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
L₁₀₊₁ Noise, dB(A) (With Mitigation)

SR87

Tai Wo 2

G/F 69.8 dB(A)
2/F 70.2 dB(A)

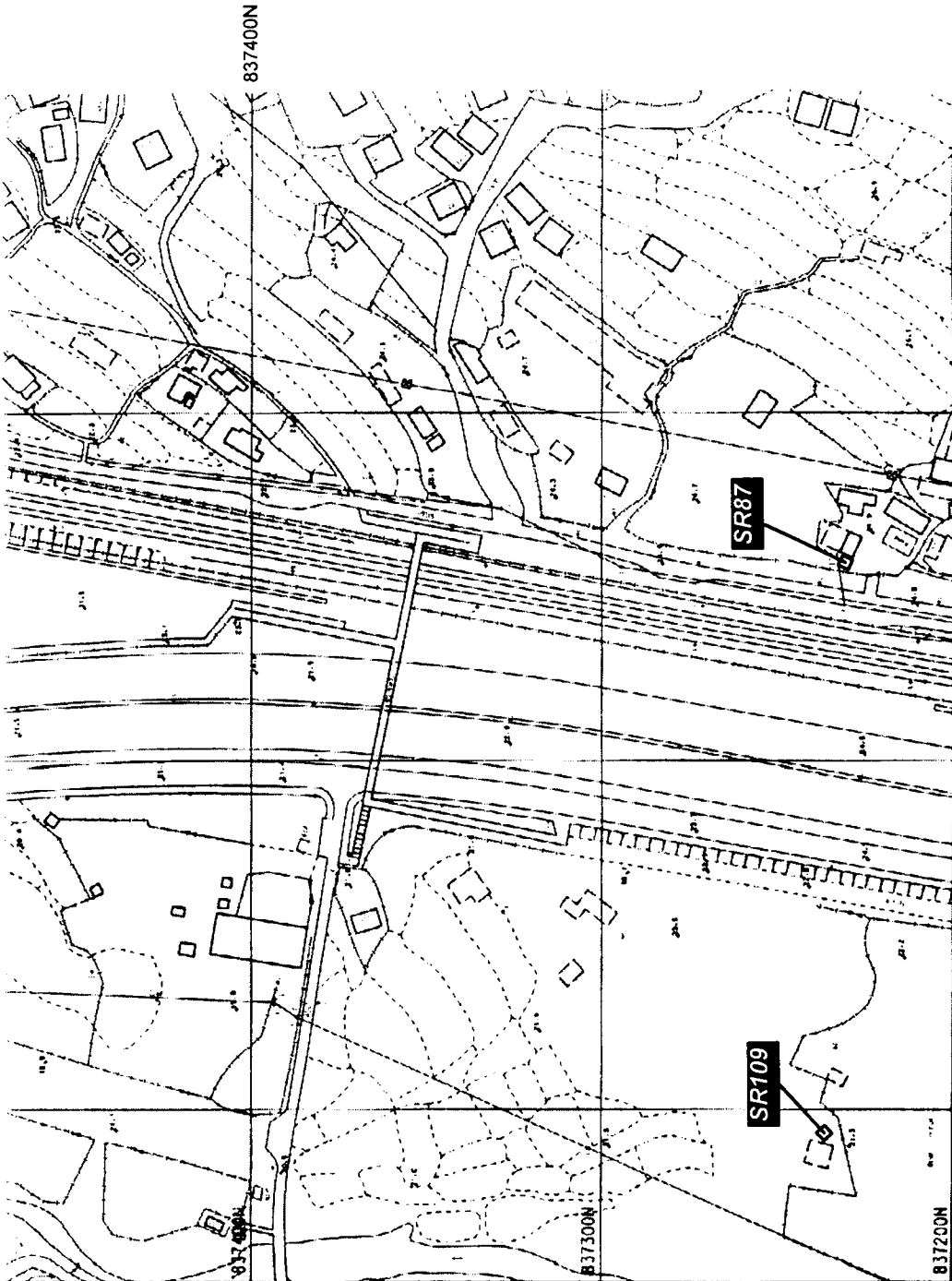
SR109

Notional Point between
SR 13 & SR 85

G/F 64.0 dB(A)

834000E

837400N



SR87

SR109

Rev	Date	By	Description	Sign	Check	Approved

Designed: **DM** Date: Mar 2000
 Drawn: **EM** Date: Mar 2000
 Approved: For M.C. Date of Issue
 Checked: Date of Issue
 Client: **HC**

The Government of the Hong Kong
 Special Administrative Region
 Highways Department
 Major Works Project Management Office

Mott Connell Ltd
 Consulting Engineers
 40/F Hopewell Centre
 183 Queens Road East
 Hong Kong
 Tel No: 2828 5757
 Fax No: 2827 1823

Project: Investigation Assignment for Widening of
 Tolo Highway / Fanning Highway between
 Island House Interchange and Fanning

Sensitive Receiver Locations at
Tai Wo

Scale: 1:2000
 Contract No / Line
 Drawing No: 5.1.33
 Rev: D

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Legend:

NSR Only

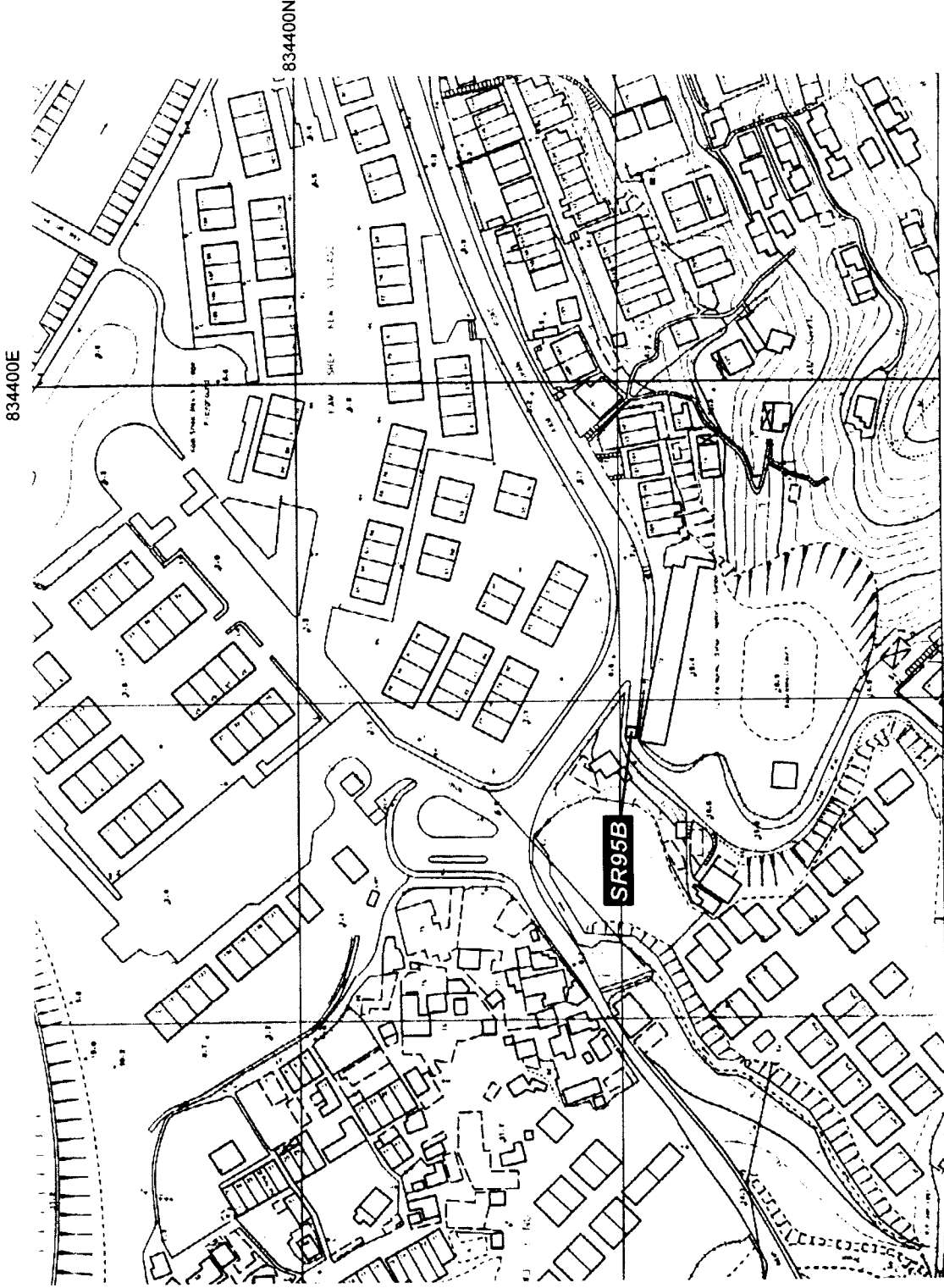
NSR = Noise Sensitive Receiver

Predicted Year 2020 Road Traffic Noise
Level near dB(A) (With Mitigation)

SR95B

Tai Po Normal School
Memorial School 2

G/F 77.6 dB (A)



Rev	On	Description	By	Chk	Date
1	01/03/20	Design	DM	DM	01/03/20
2	01/03/20	Check	DM	DM	01/03/20
3	01/03/20	Approved	DM	DM	01/03/20

The Government of the Hong Kong
Special Administrative Region
Highways Department
Major Works Project Management Office

Consulting Engineer
Mott
Connell
Mott Connell Ltd.
40/F Hopewell Centre
100 Des Voeux Road East,
Hong Kong
Tel No. 2838 5757
Fax No. 2827 1823

Project: Investigation Assignment for Widening of
Tolo Highway / Fanning Highway between
Island House Interchange and Fanning

File:
Sensitive Receiver Location at
Tai Po Normal School
Memorial School

Scale: 1:2000
Contract No / Unit:
Drawing No: 5.1.34
Rev: D
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Legend

ASR Only

ASR = Air Sensitive Receiver

Predicted Year 2020 Road Traffic
Related Air Quality

SR71

Tai Po Waterfront Park 1

GIF NO, 148.5 $\mu\text{g}/\text{m}^3$
RSP 78.9 $\mu\text{g}/\text{m}^3$

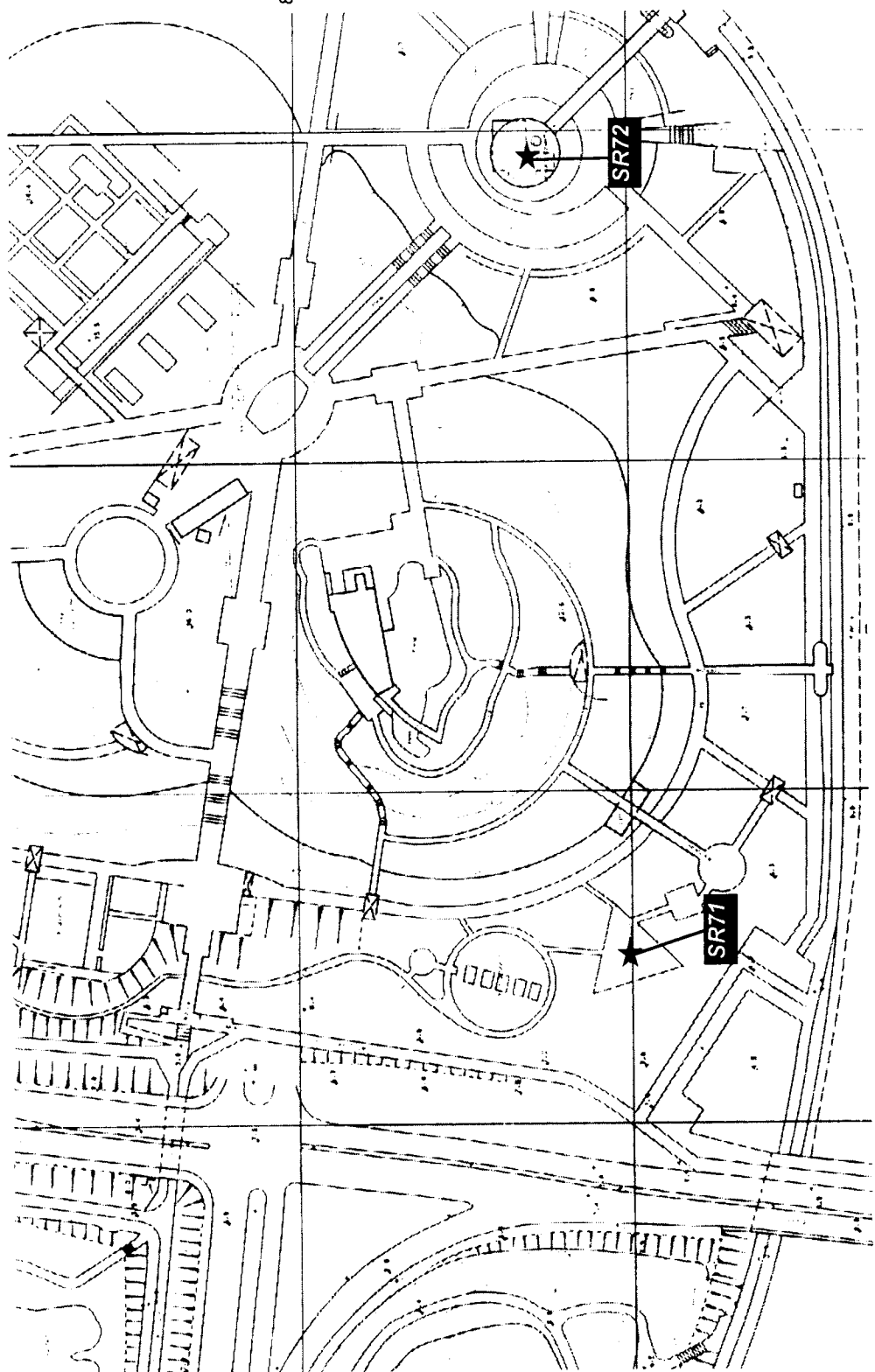
SR72

Tai Po Waterfront Park 2

GIF NO, 119.9 $\mu\text{g}/\text{m}^3$
RSP 73.0 $\mu\text{g}/\text{m}^3$

834700N

836600E



Rev.	Date	By	Description	Appr.	Date	By	Description
01	15/03/2000	CHK	Issue for M.C.	CHK	15/03/2000	CHK	Issue for M.C.

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Major Works Project Management Office

Consulting Engineering
Mott Connell Ltd.
40/F Hopewell Centre
183 Queens Road East
Hong Kong
Tel No. 2828 5157
Fax No. 2827 1823

Project
Investigation Assignment for Widening of
Tolo Highway / Fanning Highway between
Island House Interchange and Fanning

1/14

Sensitive Receiver Locations at
Tai Po Waterfront Park

Scale 1:2000
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 Contract No. / Unit
 Drawing No. 5135
 Rev. D

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Legend

NSR Only

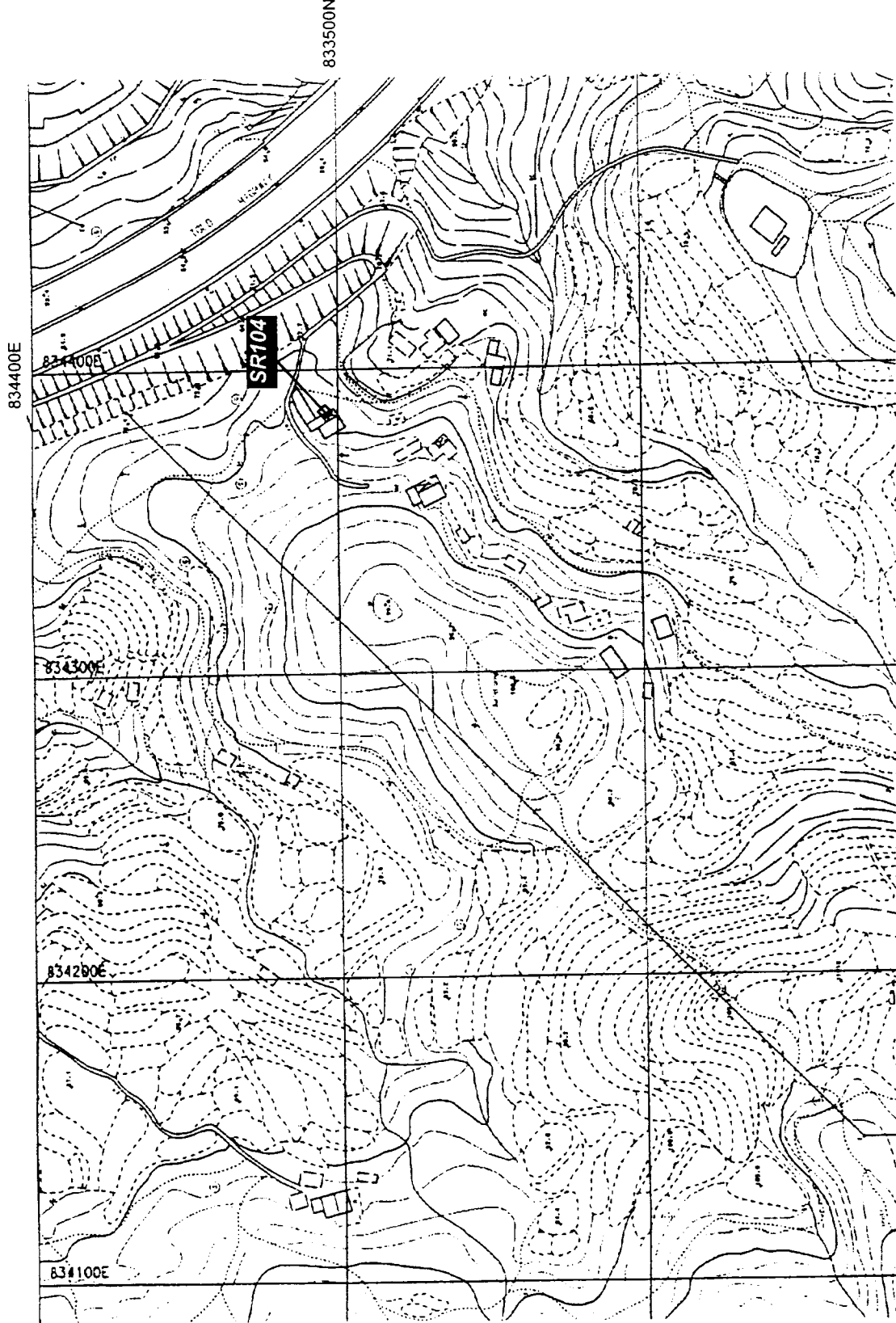
NSR = Noise Sensitive Receiver

Predicted Year 2020 Road Traffic Related Noise Quality

SF104

Village House opposite to Dynasty View

GF 69.7 dB (A)



Rev.	Date	By	Description	Appr.	Doc. No.
1	01/03/2000	Y. K. LI	Issue for M.C.	Y. K. LI	1000

Designed by: Y. K. LI
 Checked by: Y. K. LI
 Date: 01/03/2000
 Drawn by: Y. K. LI
 Date: 01/03/2000
 Project: Major Water Project Management Office

The Government of the Hong Kong
 Special Administrative Region
 Highways Department
 Major Water Project Management Office
 Consulting Engineer
Mott Connell Ltd.
 40/F Hopewell Centre
 183 Queen's Road East
 Hong Kong
 Project

Tel No: 2928 5151
 Fax No: 2827 1821
 Investigation Assignment for Widening of
 Tolo Highway / Fanning Highway between
 Island House Interchange and Fanning

Scale: 1:2000
 Contact No: /104
 Drawing No: 5.1.36
 Rev: D

Sensitive Receiver Location at
Ma Wo

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Drawing No.

Legend

NSR

NSR = Noise Sensitive Receiver

Base Map
OZP No.: S / FSS / 8
Dated: 1999/8/22

Rev	Date	By	Description	On	Off

Checked:
 Drawn:
 Approved:
 For M.C.S.
 Date of Issue

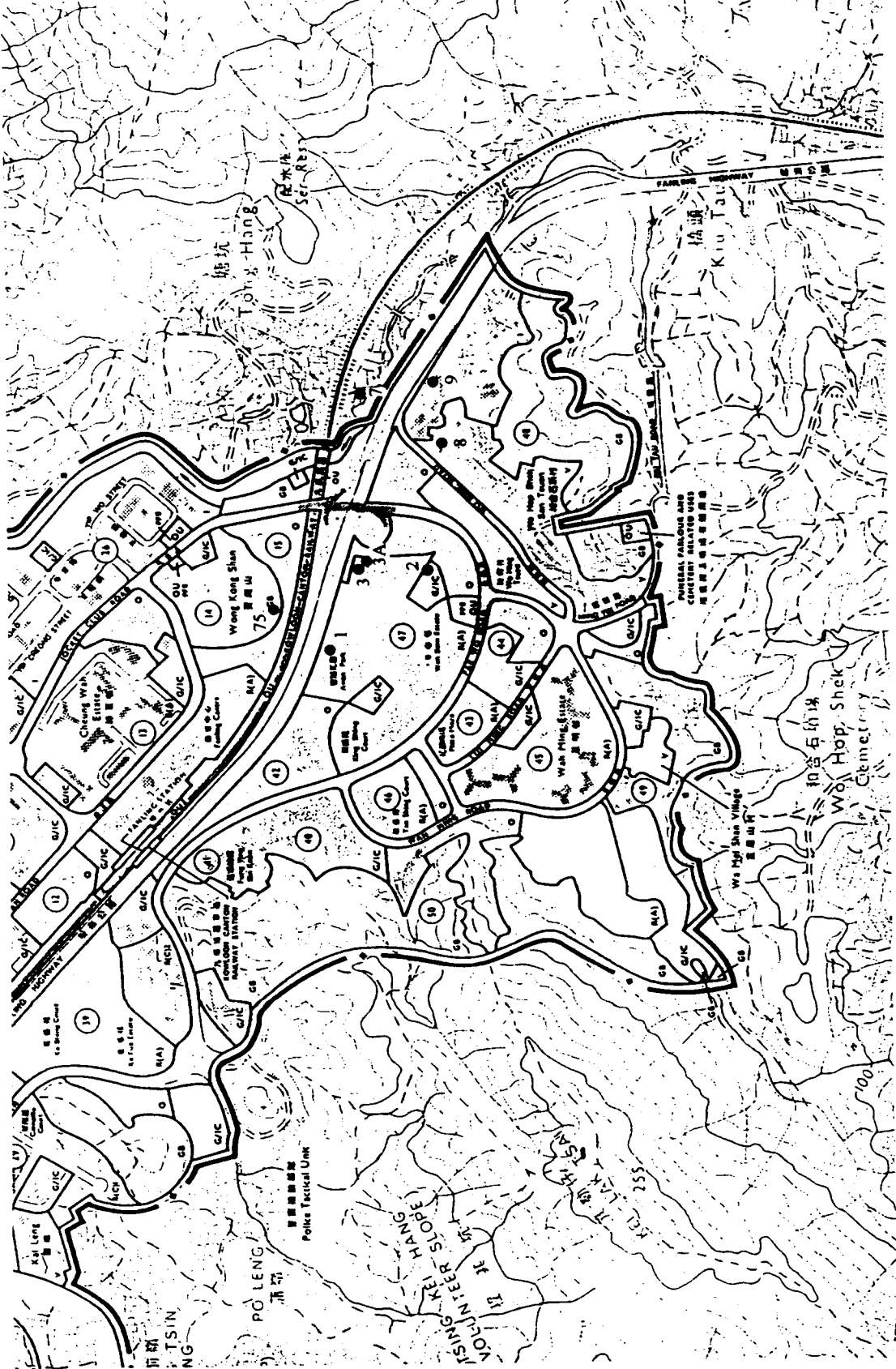
The Government of the Hong Kong
 Special Administrative Region
 Highways Department
 Major Works Project Management Office

Consulting Engineer
Mott MacDonald Ltd.
 181 Queen's Road East,
 Hong Kong
 Tel No: 2524 0707
 Fax No: 2527 1523

Project
 Investigation Assignment for Widening of
 Tofo Highway / Fanling Highway between
 Island House Interchange and Fanling

**Locations of Noise Sensitive
 Receiver at Fanling and
 Sheung Shui**

Scale: 1:10000
 Contract No: /
 Drawing No: 5.137
 Rev: D



Drawing No
Legend
● NSR
NSR - Noise Sensitive Receiver

Base Map
OZP No.: S/NE-KLH/2
Dated: 1999/8/6

Rev	Date	Description	By	Check	Date	By	Check
1		Design			Mar 2000		
		Drawn					
		Checked					
		Approved					
		Client					

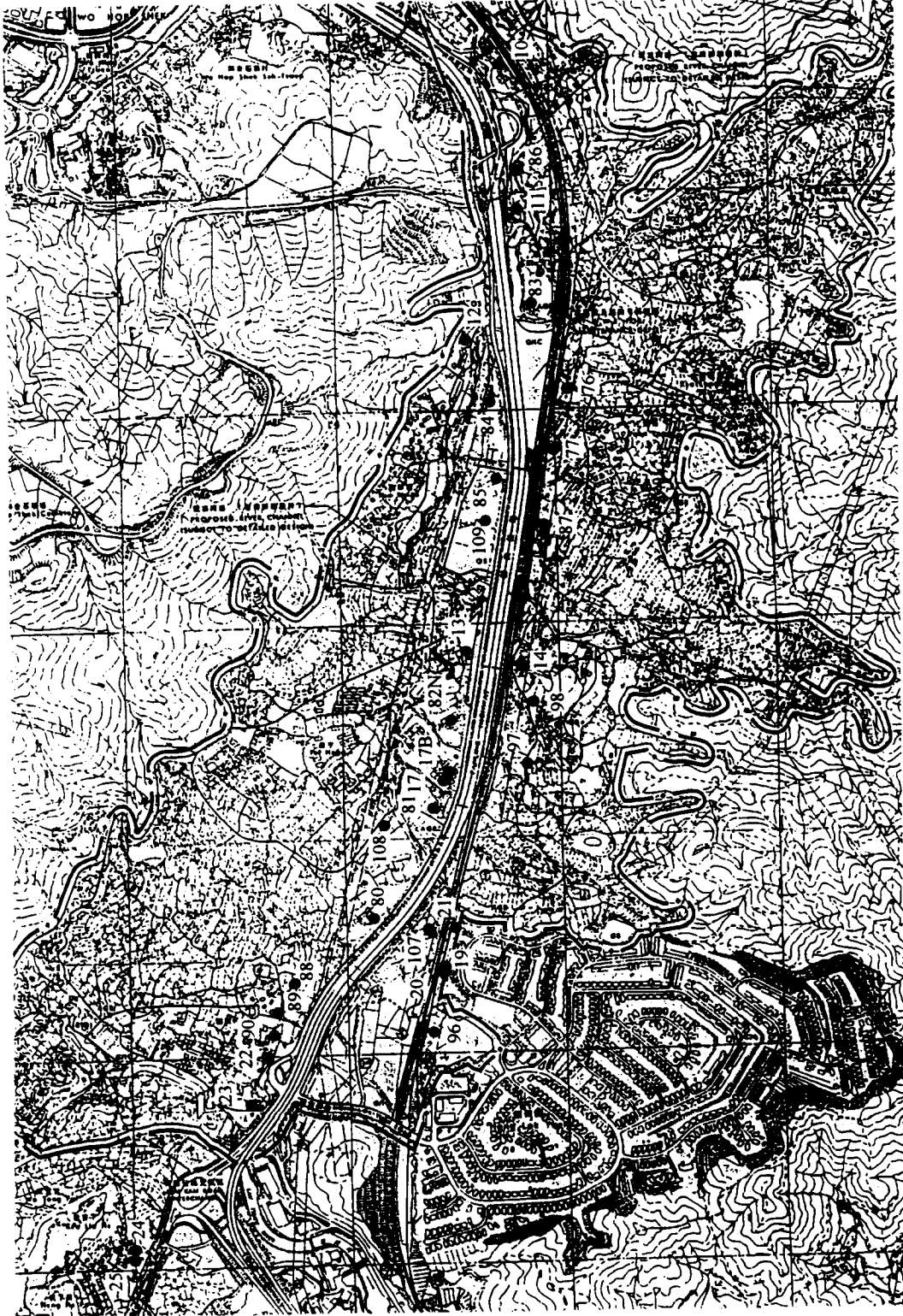
The Government of the Hong Kong
Special Administrative Region
Highways Department
Major Works Project Management Office

Consulting Engineers
Mott Connell Ltd.
40/F, Midland Centre
181 Queen's Road East
Hong Kong

Tel No 2828 5757
Fax No 2827 8223
Project
Investigation Assignment for Widening of
Tolo Highway / Fanning Highway between
Island House Interchange and Fanning

Locations of Noise Sensitive
Receiver at Kau Lung Hang

Scale: NTS
Contract No.: / Unit
Drawing No: 51 36
Revision: 0
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Drawing No.

Legend

NSR

NSR - Noise Sensitive Receiver

Base Map
OZP No.: S / TP / 11
Dated: 1999/8/20

File	Date	Description	Prep	Drawn	Checked
01	1999/08/20	Issue for Approval			
02	1999/08/20	Issue for Approval			

Client: The Government of the Hong Kong Special Administrative Region
Highways Department
Major Works Project Management Office

Consulting Engineering: Mott Cornell Ltd.
40/F Hopewell Centre
183 Queen's Road East
Hong Kong
Tel No: 2828 2357
Fax No: 2827 1823

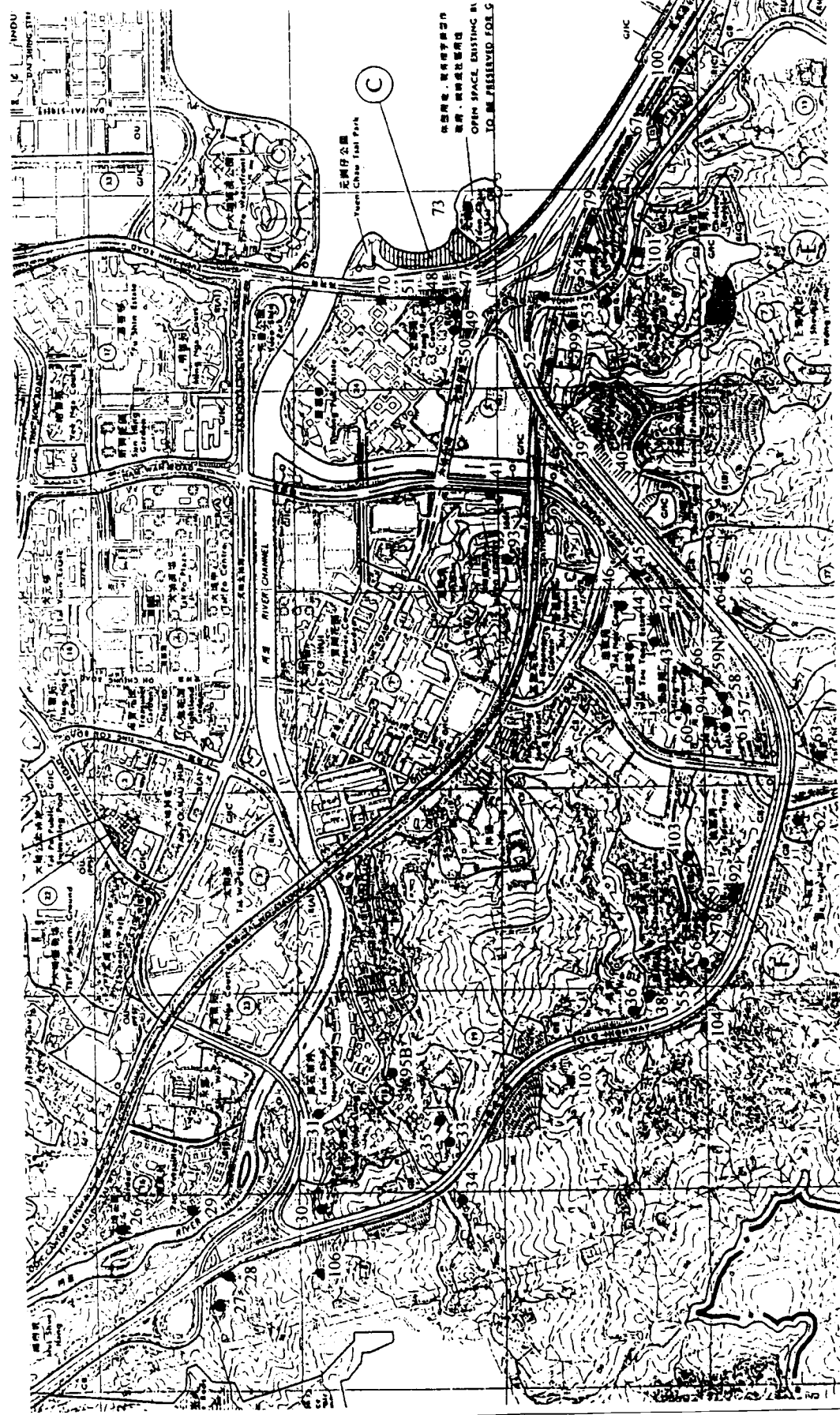
Project: Investigation Assignment for Widening of ToLo Highway / Fanning Highway between Island House Interchange and Fanning

Scale

Locations of Noise Sensitive Receiver at Tai Po

Scale: NTS
Contract No / Unit: Mott Cornell
Drawing No: 5130
Revision: D

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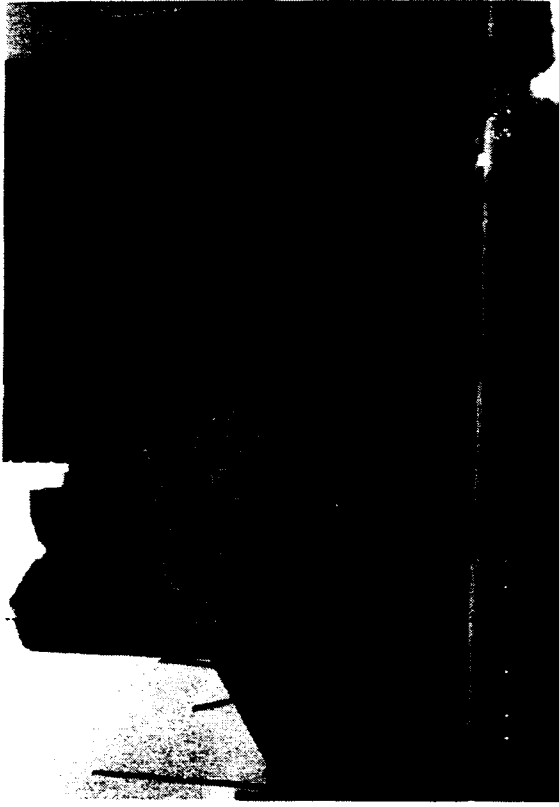




Wong Shiu Chi Secondary School



Wong Shiu Chi Secondary School



HK Teacher's Association School



Wong Shiu Chi Secondary School

No.	Date	On	Description	By	Use	Auto

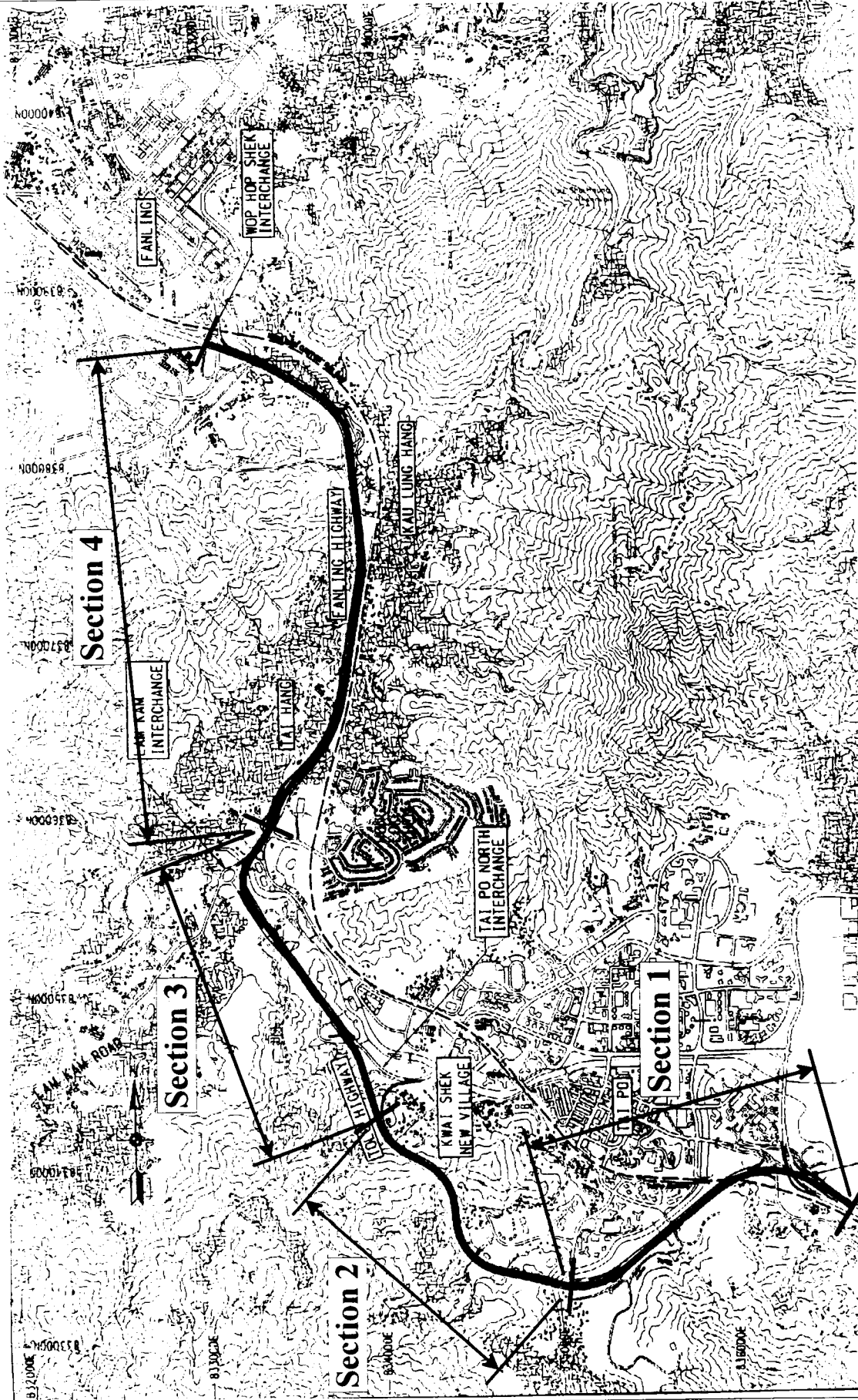
Checked
 Date
 Draw
 Approved
 Client
 For S.C.C. Date of issue

**Mott
 &
 Connell**
 Consulting Engineers
Mott Connell Ltd.
 40/F Hopewell Centre
 183 Queen's Road East
 Hong Kong
 Project: Investigation/Assignment for Widening of
 Toke Highway / Fanning Highway between
 Island House Interchange and Fanning
 Inter
 Tel No. 2829 5157
 Fax No. 2821 1823
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 Highways Department
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 Scale: NTS
 Contract No. / Use:
 Drawing No:
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 CAD File
 Issue

View of Wong Shiu Chi Secondary School & HK Teacher's Association School showing air-conditioner locations

Legend :

- Section 1:**
Between Island House
and Tat Wan Road
- Section 2:**
Between Tat Wan Road
and Tai Po Tai Wo Road
- Section 3:**
Between Tai Po Tai Wo Road
and Hong Lok Yuen Road
- Section 4:**
Between Hong Lok Yuen Road
and Pak Wo Road



App	Date	Drawn	Checked	Design	Drawn	Checked

The Government of the Hong Kong
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Highways Department
Major Works Project Management Office

Mott
Mott
Connell

Investigation/Assignment for Widening of
Tolo Highway / Fanling Highway between
Island House Interchange and Fanling

Phasing of Construction
Works

Drawing No

Legend:

- — Measurement
- Location

A Tai Hang Village
 16/04/1999, PM
 Duration 30 minutes

L_{10} 78.5 dB(A)
 L_{eq} 77.3 dB(A)
 L_{90} 71.0 dB(A)

Rev	Date	By	Description	Checked	Date

The Government of the Hong Kong
 Special Administrative Region
 Highways Department
 Major Works Project Management Office

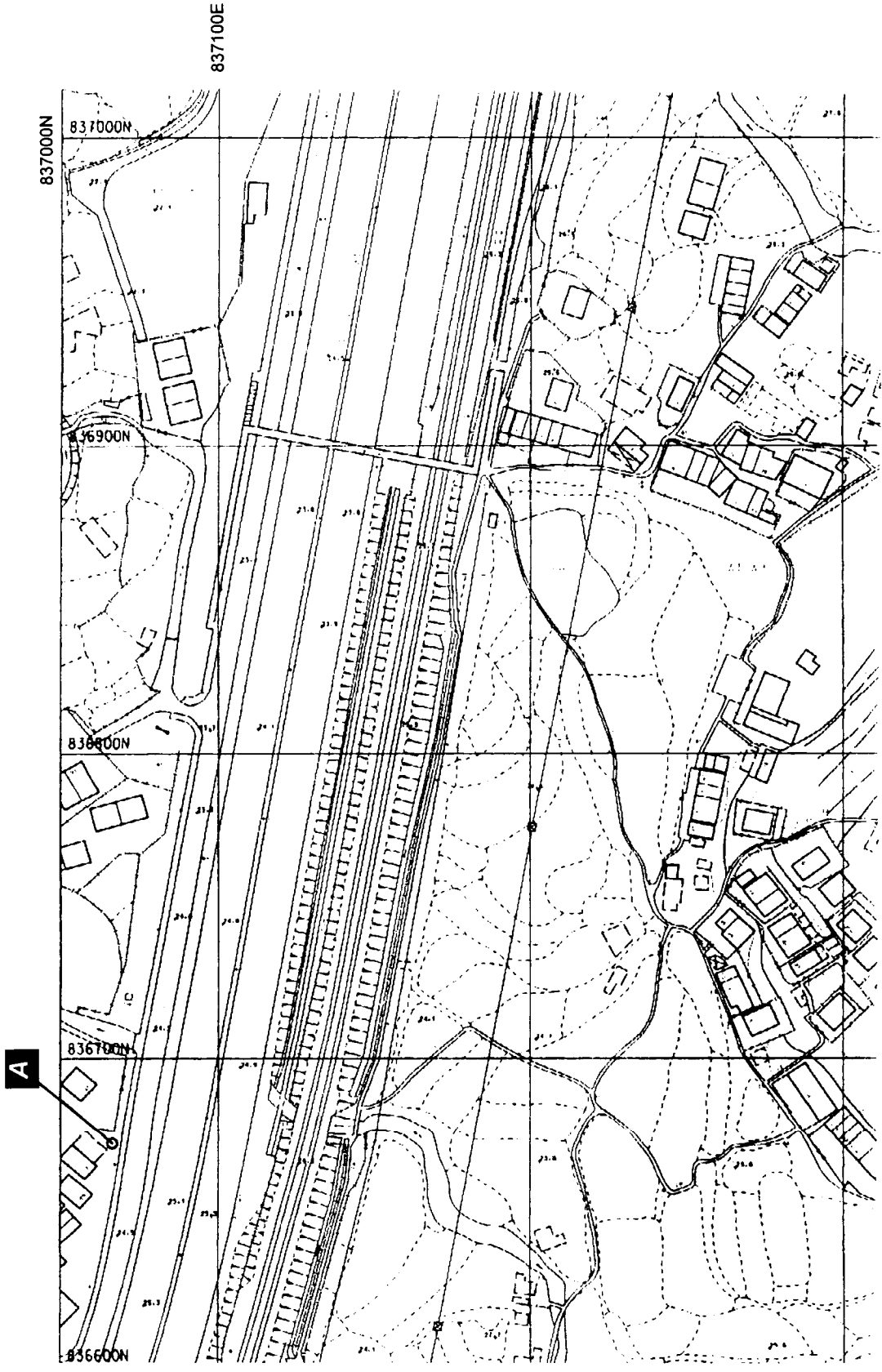
Client: Mott Connell Ltd.
 407 Hopwood Centre
 110 Queen's Road East,
 Hong Kong
 Tel No: 2828 5757
 Fax No: 2827 1823

Project: Investigation Assignment for Widening of
 Tolo Highway / Fanning Highway between
 Island House Interchange and Fanning

Scale: 1:2000
 Contract No: / Unit
 Drawing No: 5.4.1

Background Noise
 Measurement Result at
 Tai Hang Village

Mott
 Connell
 Scale 1:2000
 Contract No / Unit
 Drawing No 5.4.1

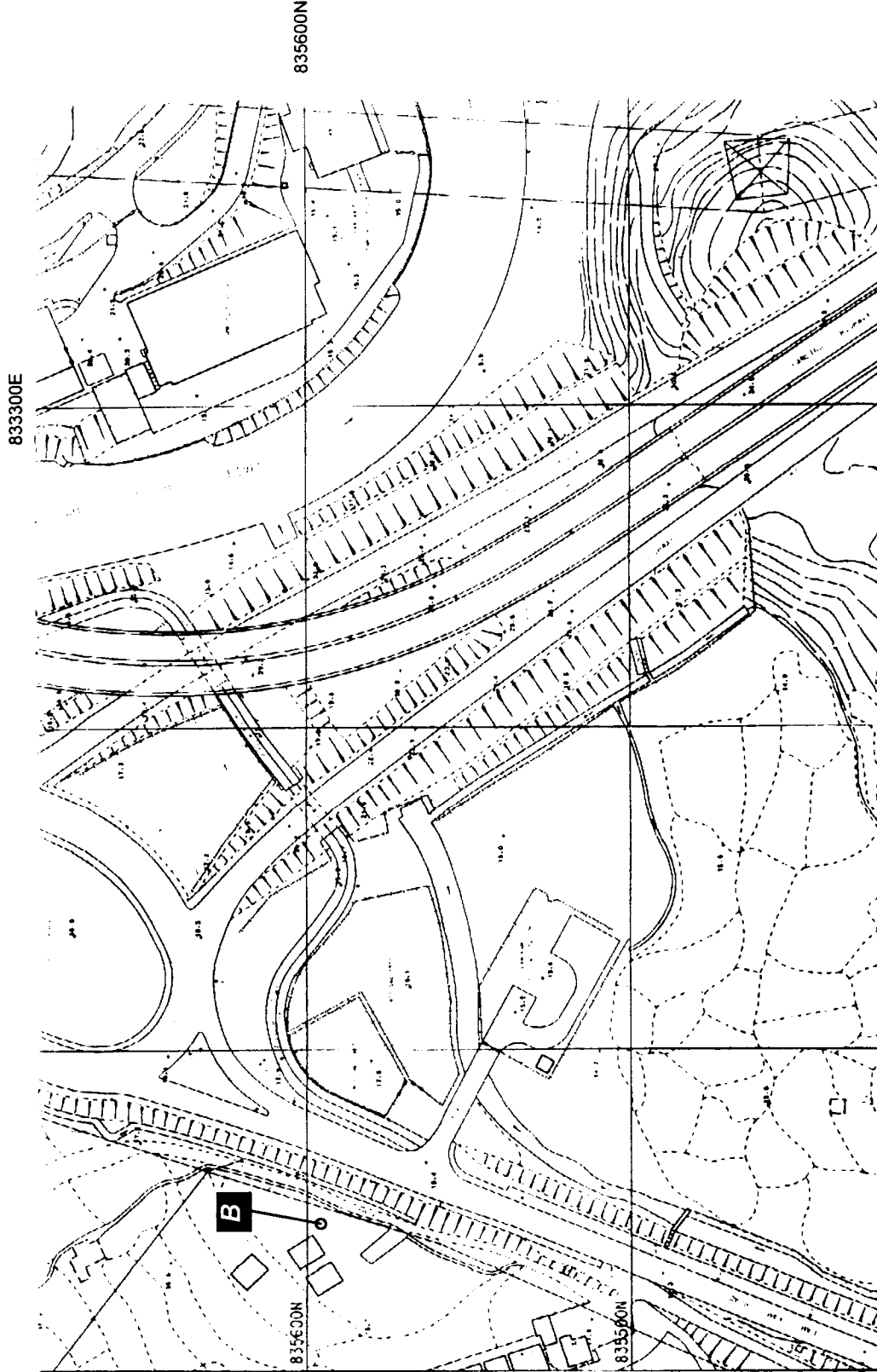


Legend:

- Measurement
- Location

B Kau Liu Ha
 16/04/1999, PM
 Duration 30 minutes

L_{10} 62.5 dB(A)
 L_{50} 60.5 dB(A)
 L_{90} 55.5 dB(A)



No.	Date	On	Description	By	Checked
1	16/04/99	PM	Measurement		

Client: The Government of the Hong Kong Special Administrative Region
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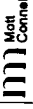
Consulting Engineer: Mott Connell Ltd.
 40/F Hopwood Centre
 183 Queen's Road East, Hong Kong

Project: Investigation Assignment for Widening of Tolo Highway / Faling Highway between Island House Interchange and Faling

Tel No: 2828 5757
 Fax No: 2827 1823

Background Noise
 Measurement Result at
 Kau Liu Ha

Scale: 1:2000
 Contract No./Unit:
 Drawing No: 5.4.2



Legend:

- Measurement
- Location

Wang Fuk Court
 20/04/1999, AM
 Duration 30 minutes

L₁₀ 66.0 dB(A)
 L_{eq} 63.5 dB(A)
 L₉₀ 58.5 dB(A)

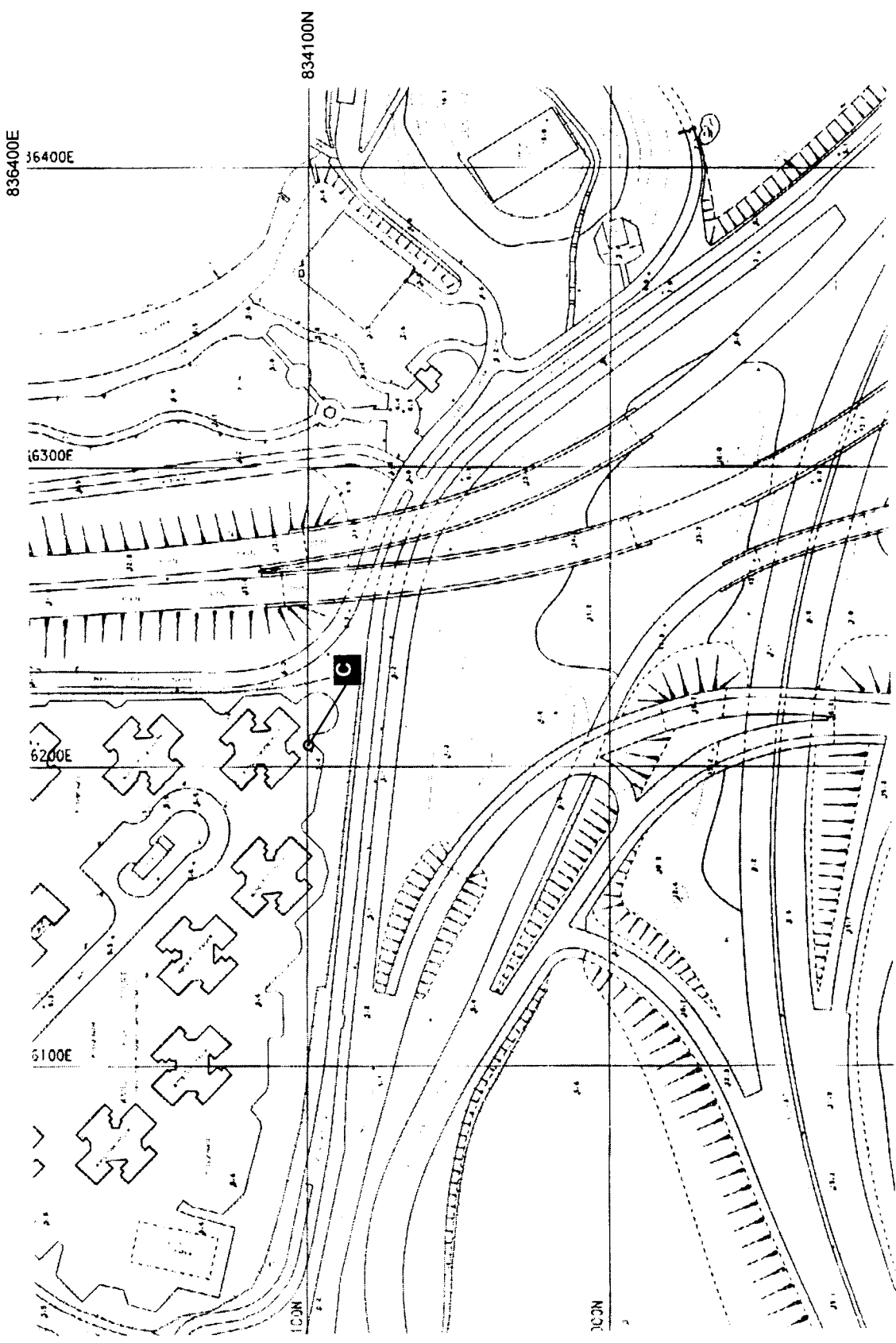
File: Date: Description: User: Date: Status:
 Drawn: Erweira HK Ltd Date: Mar 2000 Checked:
 Approved: For M.C. Date of Issue:
 Client: The Government of the Hong Kong Special Administrative Region
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 Major Works Project Management Office

Mott Connell Ltd
 Consulting Engineering
 40/F Hopwood Centre
 183 Queen's Road East,
 Hong Kong
 Tel No: 2828 5757
 Fax No: 2827 1823

Project: Investigation Assignment for Widening of Tolo Highway / Failing Highway between Island House Interchange and Failing

Background Noise Measurement Result at Wang Fuk Court

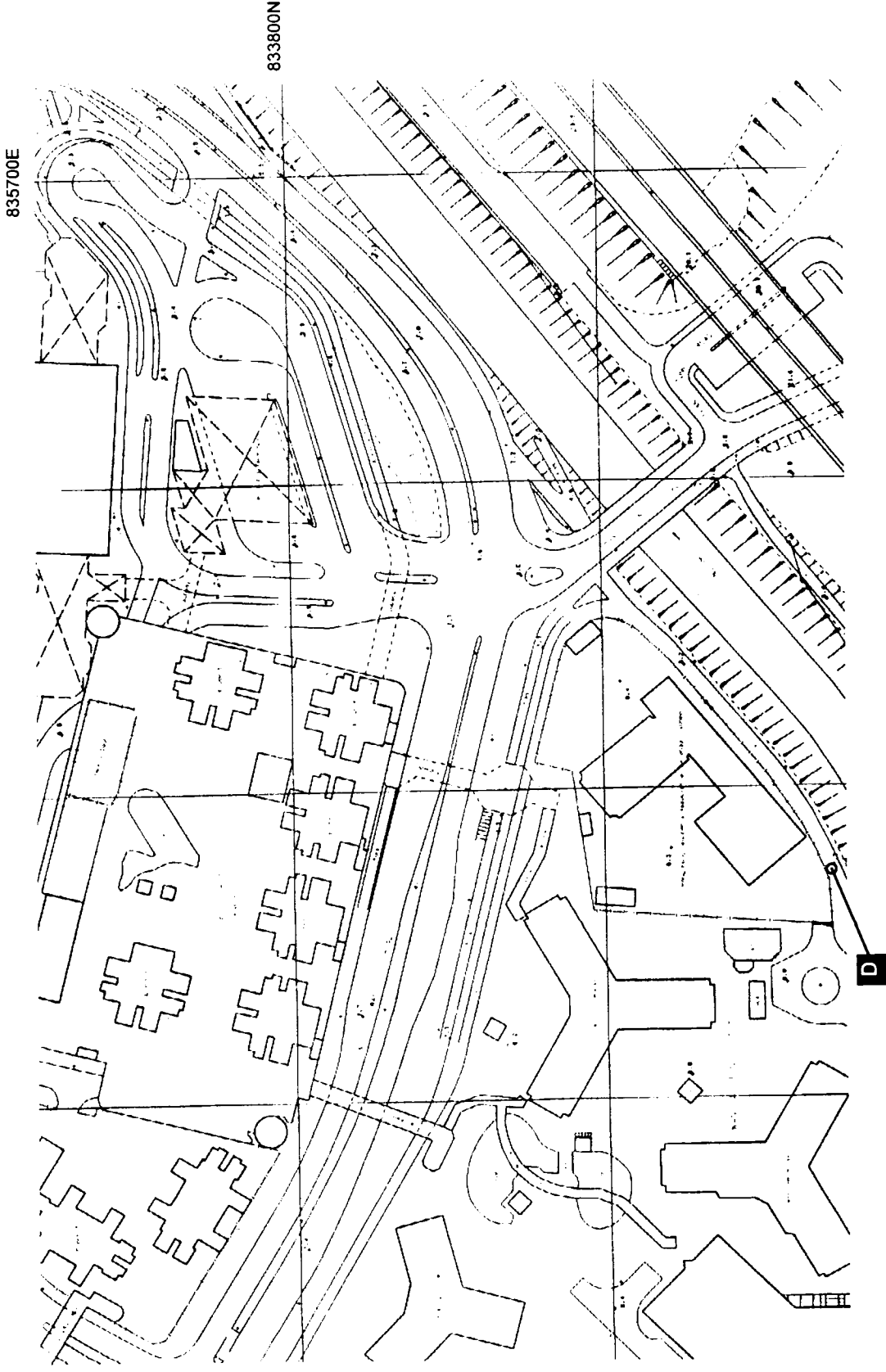
Scale: 1:2000
 Contract No: / Unit
 Drawing No: 543
 Rev: B
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 CAD File



Legend:
○ Measurement
○ Location

Wan Tau Tong
Estate 20/04/1999, AM
Duration 30 minutes

L_{10} 80.5 dB(A)
 L_{50} 78.9 dB(A)
 L_{90} 75.5 dB(A)



Rev.	Date	On	Description	By	Chk	App'd
Designed	Elvira HKL10	04e	Mar 2000	Checked		
Checked						

Customer: The Government of the Hong Kong Special Administrative Region
Highways Department
Major Works Project Management Office

Consulting Engineering: **Mott** **Corneil** Ltd.
40/F Hopwood Centre
118 Queen's Road East
Hong Kong
Project: Investigation Assignment for Widening of Tolo Highway / Fanning Highway between Island House Interchange and Fanning

Tel No: 2828 5757
Fax No: 2827 1823

Background Noise
Measurement Result at
Wan Tau Tong

Drawing No

Legend:

Measurement
Location

E Wo Hop Shek

20/04/1999, PM

Duration 30 minutes

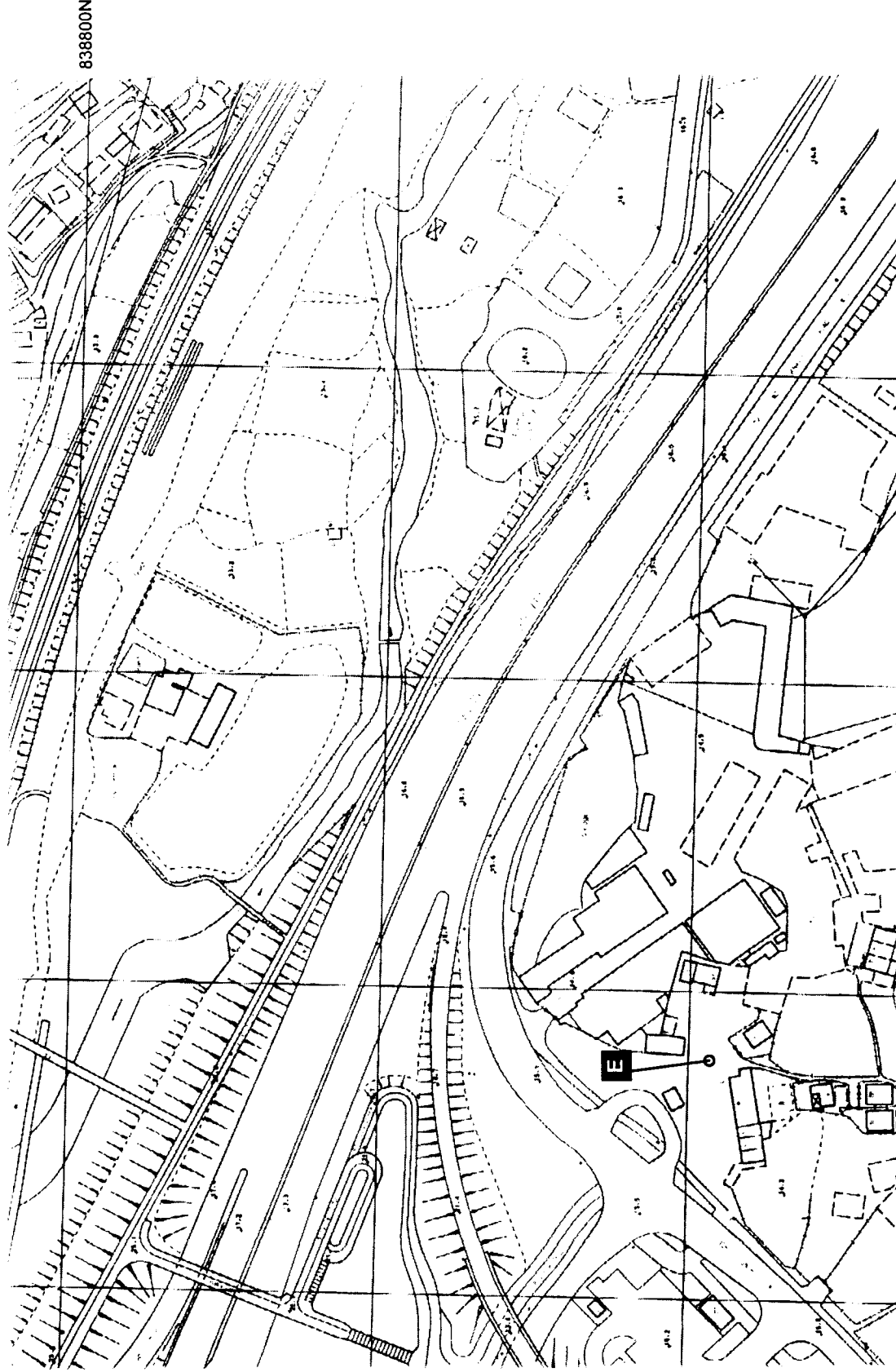
L₁₀ 73.0 dB(A)

L_{eq} 70.1 dB(A)

L₉₀ 59.0 dB(A)

833500E

838800N



Mr. []	Date []	Dr. []	Location []	City []	Country []
Designer: Eversis HK Ltd	Date: Mar 2000	Checker:			
Approved: []	For M.C.:	Date of Issue:			
Client:					

The Government of the Hong Kong
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Highways Department
Major Works Project Management Office

Consulting Engineering
Mott Connell Ltd.
40/F Hopewell Centre
183 Queen's Road East,
Hong Kong

Tel No 2828 5757
Fax No 2827 1823

Project
Investigation Assignment for Widening of
Tolo Highway / Fanning Highway between
Island House Interchange and Fanning

**Background Noise
Measurement Result at
Wo Hop Shek**

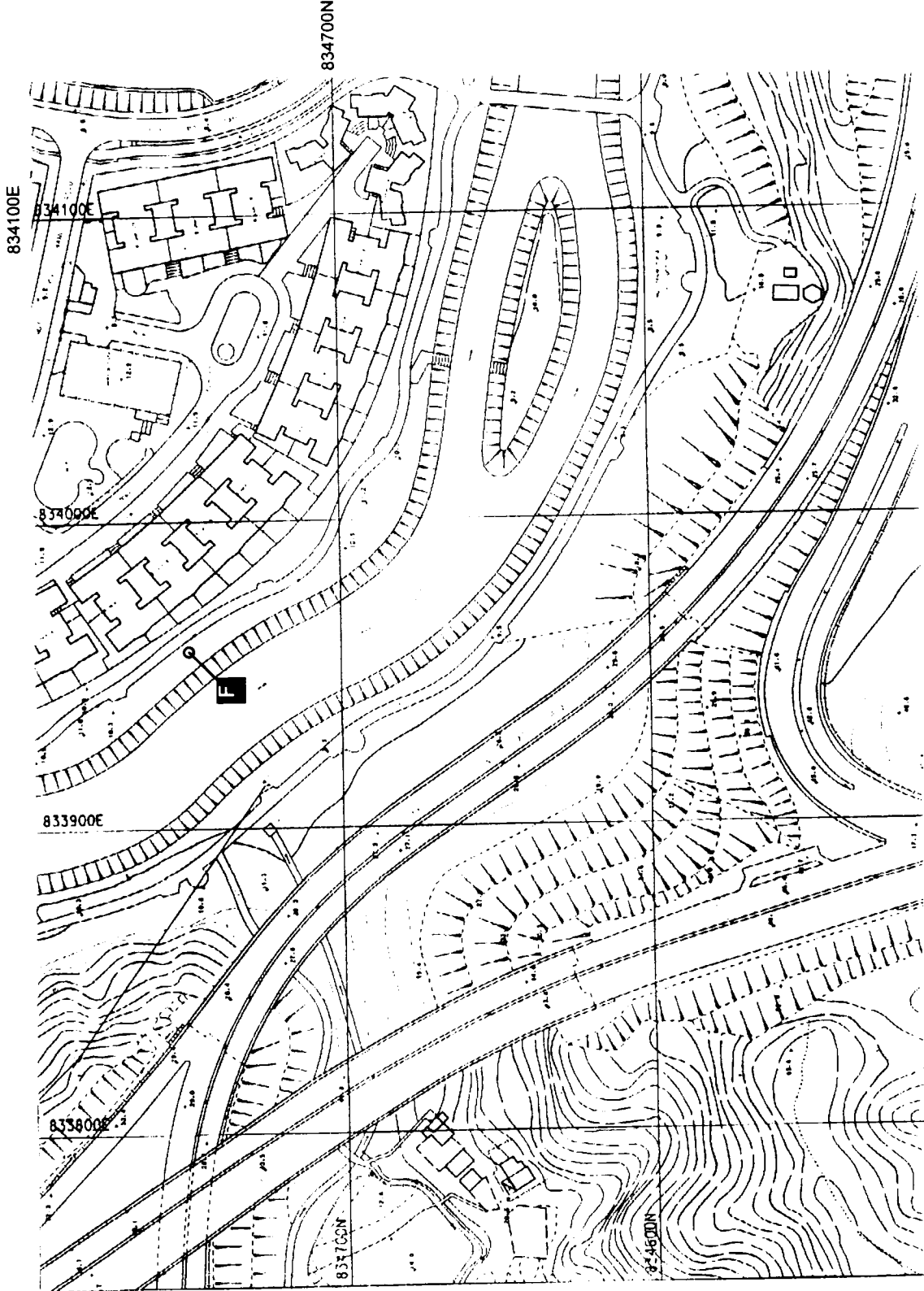
Scale 1:2000
Contract No / Unit
Mott Connell
Drawing No 5.4.5
Page 8
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C&E Pte.

Drawing No.

Legend: Measurement
Location

F Parc Versailles
21/04/1999, AM
Duration 30 minutes

L₁₀ 56.0 dB(A)
L_{eq} 54.5 dB(A)
L₉₀ 52.0 dB(A)



Rev.	Date	By	Description	Checked	Date
01	01/03/2000	Y. H. CHAN	Issue for Approval	Y. H. CHAN	01/03/2000
02	01/03/2000	Y. H. CHAN	Issue for Approval	Y. H. CHAN	01/03/2000

Designed: Y. H. CHAN
 Drawn: Y. H. CHAN
 Approved: Y. H. CHAN
 Client: The Government of the Hong Kong Special Administrative Region
 Highways Department
 Major Works Project Management Office
 Consulting Engineer: Mott Connell Ltd.
 40/F Regency Centre
 183 Queen's Road East
 Hong Kong
 Project: Investigation Assignment for Widening of Tolo Highway / Fanning Highway between Island House Interchange and Failing

Scale: 1:2000
 Contract No / Unit: Mott Connell
 Drawing No: 5.4.6
 Rev: B

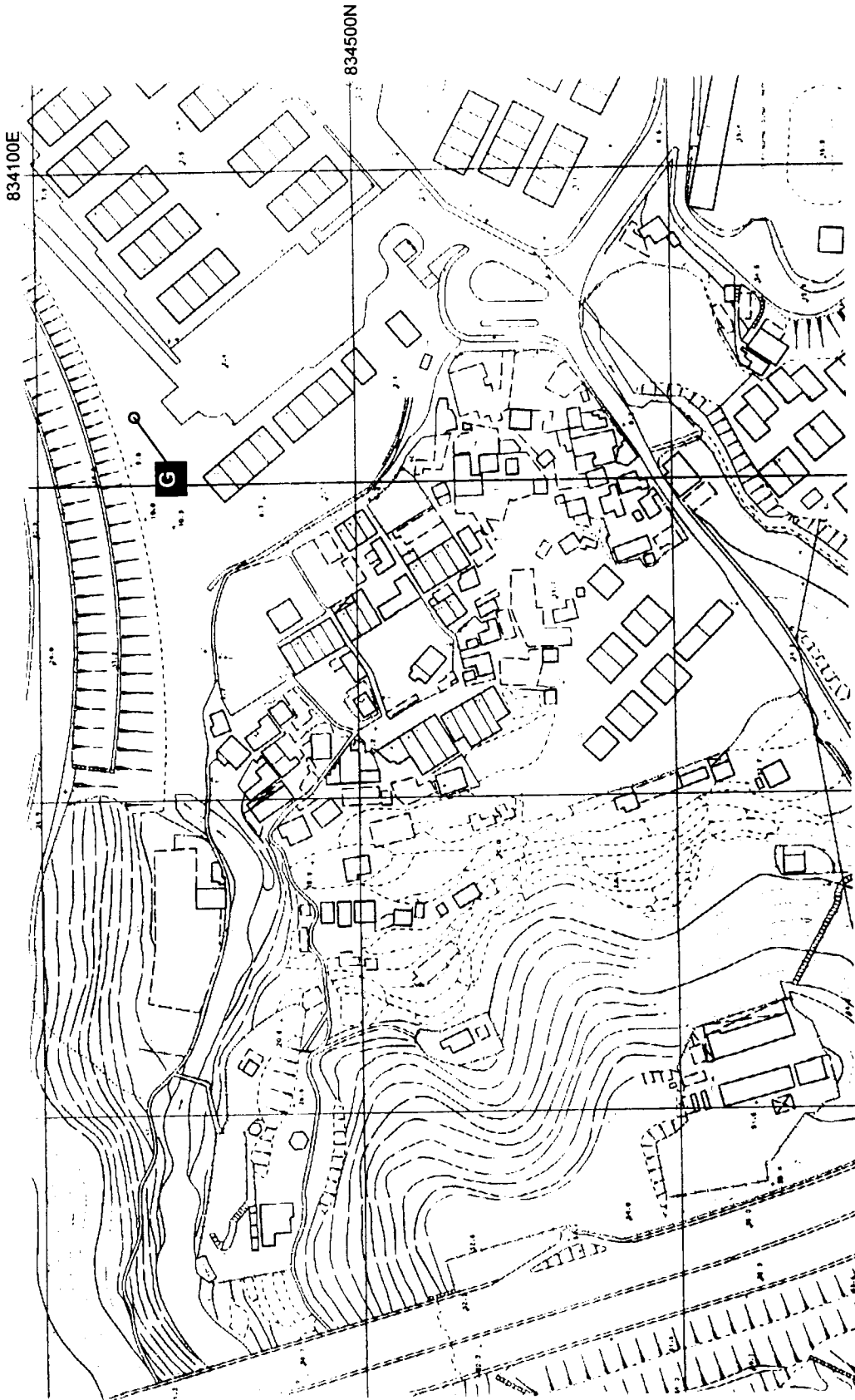
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Drawing No

Legend: Measurement
Location

G Shek Kwu Lung
21/04/1999, AM
Duration 30 minutes

L₁₀ 56.5 dB(A)
L_{eq} 53.7 dB(A)
L₉₀ 48.0 dB(A)



Rev	Date	By	Check	Appr	Disc	Drawn	Date	Disc	Drawn	Date	Disc	Drawn	Date
1						Engr	2000						

The Government of the Hong Kong
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Highways Department
Major Works Project Management Office

Consulting Engineering
Mott Connell Ltd
200, Liverpool Court
115, Queen's Road East
Hong Kong
Project

Investigation Assignment for Widening of
Tolo Highway / Failing Highway between
Island House Interchange and Failing

Tel No 2828 5757
Fax No 2827 1823

**Background Noise
Measurement Result at
Shek Kwu Lung**

Scale 1:2000
Contract No / Unit
Drawing No 5.4.7

Copyright Reserved

Drawing No.

Legend:

Measurement
Location

H Fanling Government Secondary School
06/05/1999, AM
Duration 5 minutes

L₁₀ 68.5 dB(A)
L_{eq} 65.8 dB(A)
L₉₀ 61.0 dB(A)

I Avon Park Facing to Primary School
06/05/1999, AM
Duration 5 minutes

L₁₀ 69.5 dB(A)
L_{eq} 67.7 dB(A)
L₉₀ 64.0 dB(A)

J Avon Park Facing to Fanling Highway
06/05/1999, AM
Duration 5 minutes

L₁₀ 80.5 dB(A)
L_{eq} 78.7 dB(A)
L₉₀ 74.5 dB(A)

Rev.	Date	By	Description	Checked	Date	By

The Government of the Hong Kong Special Administrative Region
Highways Department
Major Works Project Management Office

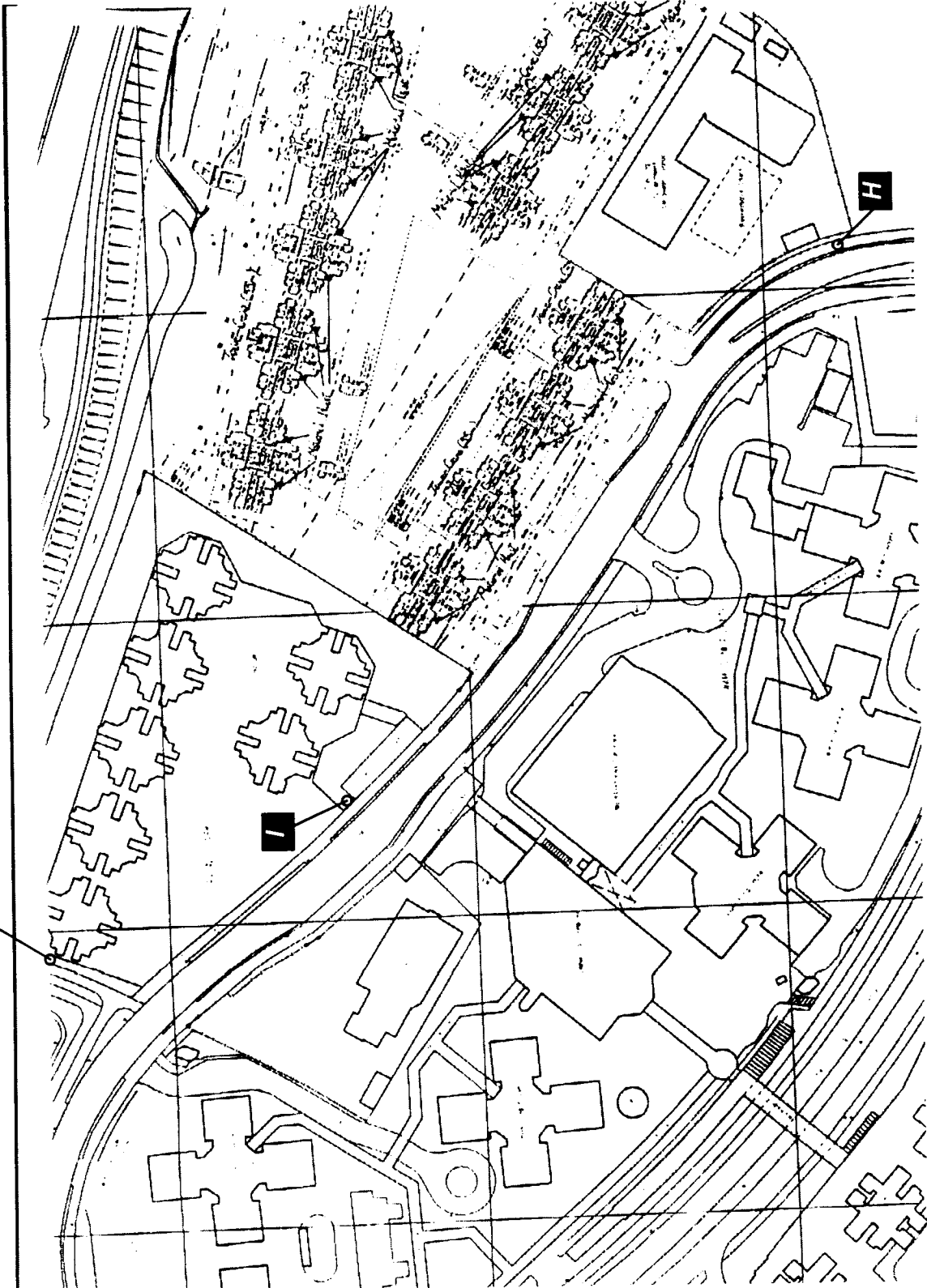
Consulting Engineering
Mott Connell Ltd
407 Hyslop Centre
113 Des Voeux Road East
Hong Kong

Investigation Assignment for Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling

Spot Measurements of the Leq(5min) Noise Levels at Avon Park & Fanling Government Secondary School

Scale 1:2000
Contract No. / Unit
Drawing No. 551

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CAD File

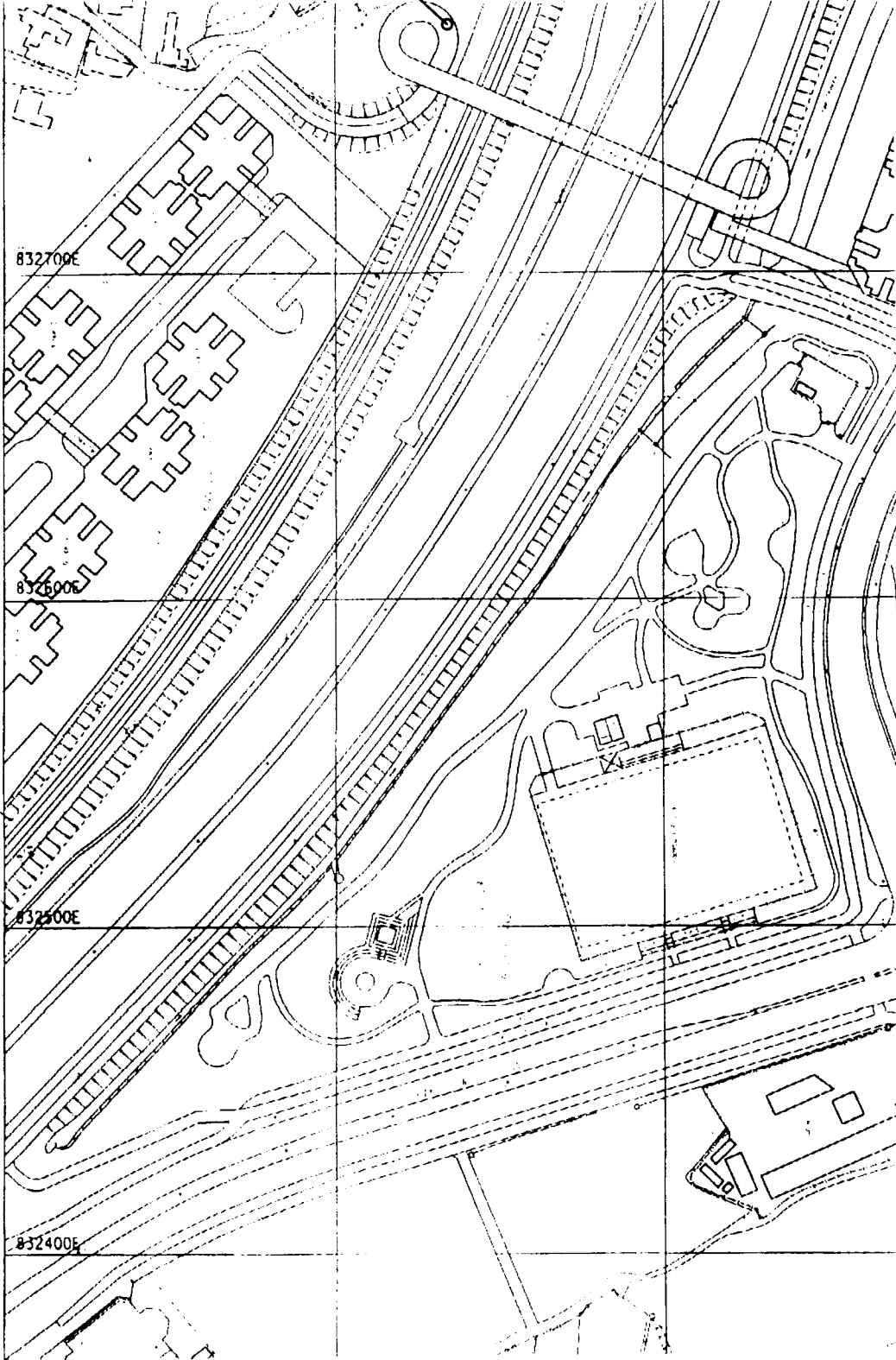


Legend:

- Measurement
- Location

K Fanling Centre
 06/05/1999, AM
 Duration 5 minutes

L₁₀ 78.0 dB(A)
 L_{eq} 74.1 dB(A)
 L₉₀ 69.0 dB(A)



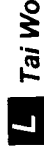
Rev	Date	By	Description	Drawn	Checked	Date	For	Scale
1								

The Government of the Hong Kong
 Special Administrative Region
 Highways Department
 Major Works Project Management Office
 Consulting Engineers
Mott Connell Ltd.
 40/F, Progress Centre
 113, E Road East,
 Hong Kong
 Project
 Investigation Assignment for Widening of
 Tolo Highway / Fanling Highway between
 Island House Interchange and Fanling

Scale 1:2000
 Mott Connell Ltd
 Contract No / Unit
 Drawing No 55.2
 Rev B

Legend:

- — Measurement Location



Tai Wo

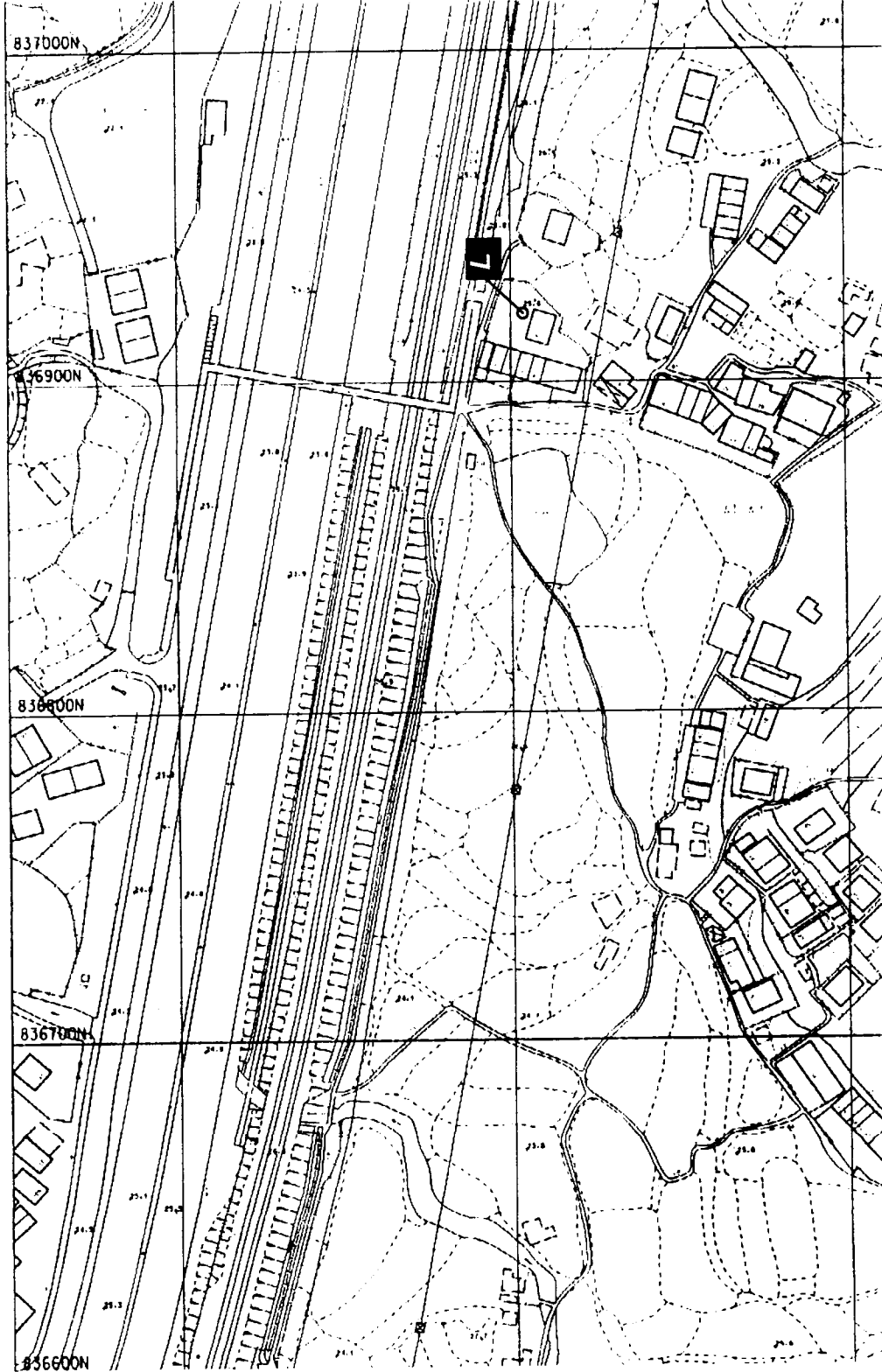
06/05/1999, PM

Duration 5 minutes

L₁₀ 69.4 dB(A)

L_{eq} 67.5 dB(A)

L₉₀ 63.5 dB(A)



Rev	Date	By	Description	Dep	Checked
1	06/05/99	AM	As Issued		
2	06/05/99	AM	As Issued		
3	06/05/99	AM	As Issued		
4	06/05/99	AM	As Issued		
5	06/05/99	AM	As Issued		
6	06/05/99	AM	As Issued		
7	06/05/99	AM	As Issued		
8	06/05/99	AM	As Issued		
9	06/05/99	AM	As Issued		
10	06/05/99	AM	As Issued		
11	06/05/99	AM	As Issued		
12	06/05/99	AM	As Issued		
13	06/05/99	AM	As Issued		
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99	06/05/99	AM	As Issued		
100	06/05/99	AM	As Issued		

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Major Works Project Management Office

Consulting Engineer
Mott Connell Ltd
40/F Hopwood Centre
183 Queen's Road East
Hong Kong
Tel No 2828 5757
Fax No 2827 1823

Investigation Assignment for Widening of
Tolo Highway / Fealing Highway between
Island House Interchange and Fealing

Spot Measurements of the
Leq(5min) Noise Levels at
Tai Wo

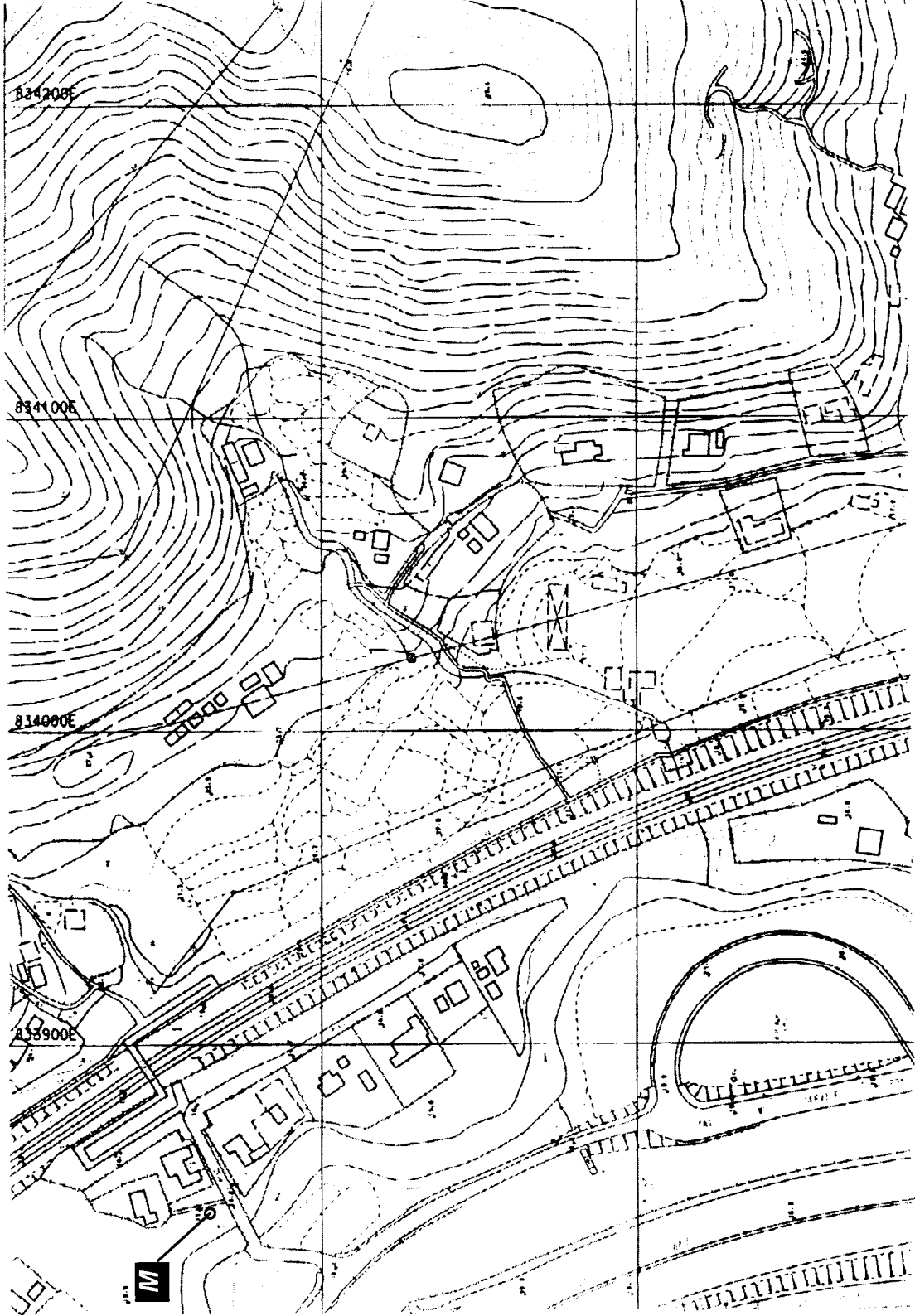
Scale	1:2000
Contract No / Unit	
Drawing No	553
Revision	B
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COB Reg	

Legend:

- Measurement
- Location

M Kau Lung Hang
 06/05/1999, PM
 Duration 5 minutes

L₁₀ 64.0 dB(A)
 L_{eq} 61.5 dB(A)
 L₉₀ 58.0 dB(A)



No.	Date	By	Description	Drawn	Checked
				Drawn	Checked
				Drawn	Checked
				Drawn	Checked
				Drawn	Checked
				Drawn	Checked

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Mott Connell Ltd
 Consulting Engineering
 407 Hopwood Centre
 183 Queen's Road East
 Hong Kong

Tel No 2828 5757
 Fax No 2827 1823

Project: Investigation Assignment for Widening of
 Tse Highway / Feinting Highway between
 Island House Interchange and Feinting

Scale 1:2000
 Contract No / Unit
 Drawing No 5.5.4

Mott Connell
 Contract No / Unit
 Drawing No 5.5.4

Spot Measurements of the
 Leq(5min) Noise Levels at
 Kau Lung Hang

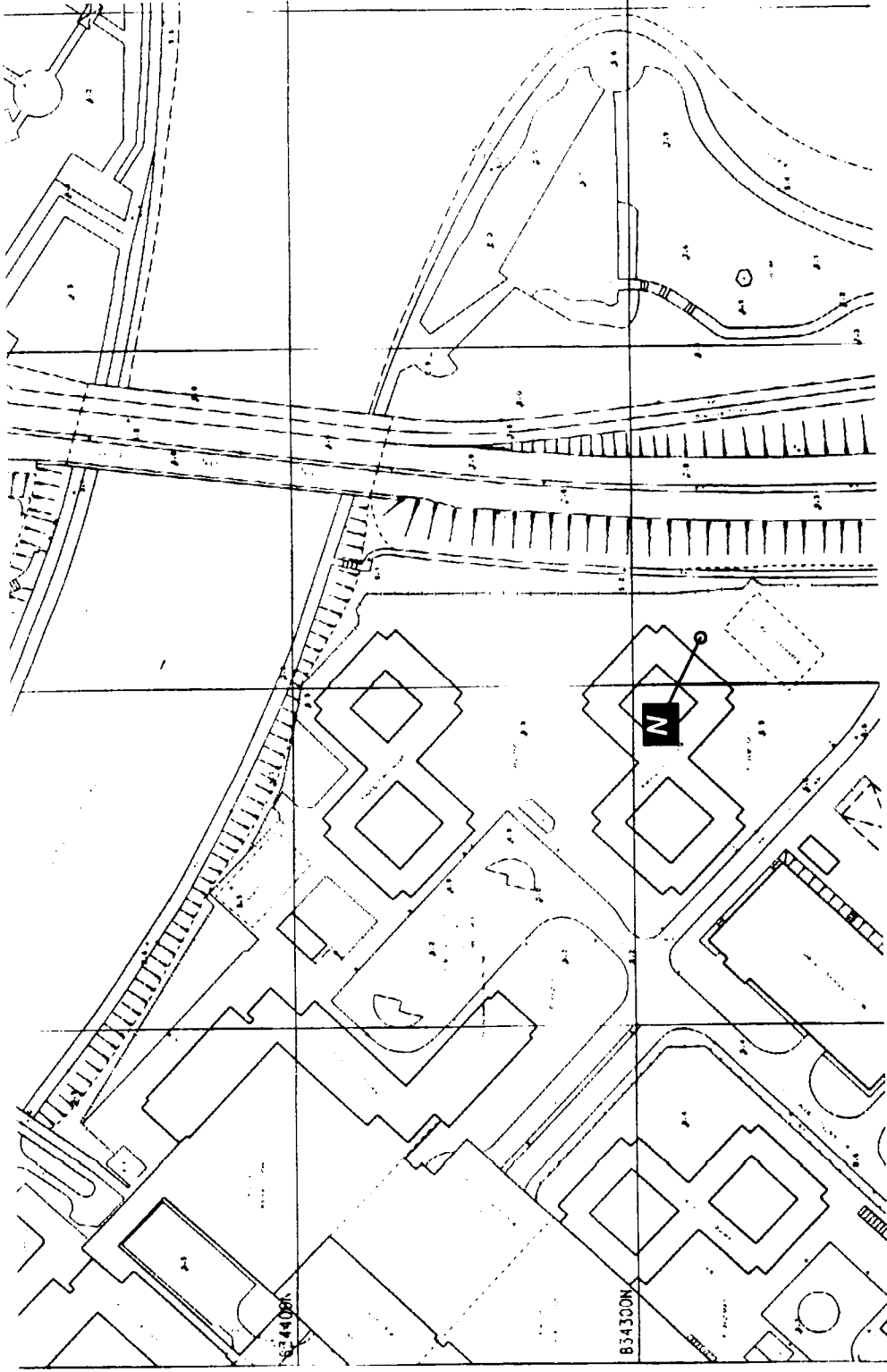
Drawing No

Legend:

Measurement
Location

N Basketball Court
at Kwong Fuk Estate
03/06/1999, PM
Duration 5 minutes

L₁₀ 67.5 dB(A)
L_{eq} 65.6 dB(A)
L₉₀ 60.0 dB(A)



Rev	Date	By	Description	Drawn	Checked	Date	Checked
01							

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 Special Administrative Region
 Highways Department
 Major Works Project Management Office
 Consulting Engineering
Mott Connell Ltd.
 40/F Regional Centre
 83 Johnston Road East,
 Hong Kong
 Tel No. 2828 5757
 Fax No. 2827 1823

Investigation Assignment for Widening of
 Tolo Highway / Fanning Highway between
 Island House Interchange and Fanning

Scale	1:2000
Contract No. / Unit	
Drawing No.	5.5.5
Rev.	B

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Legend:

- Measurement
- Location



O Dynasty View 1
 03/06/1999, PM
 Duration 5 minutes

L_{10} 62.5 dB(A)
 L_{eq} 60.2 dB(A)
 L_{90} 56.5 dB(A)

P Monastery at
 Ma Wo
 03/06/1999, PM
 Duration 5 minutes

L_{10} 60.0 dB(A)
 L_{eq} 58.6 dB(A)
 L_{90} 56.0 dB(A)



Rev	Date	On	Description	By	Chk	Appr
Design	Drawn	Entered	HK Ltd	Date	Mar 2000	Checked
Approved	For M.C.	Case of issue				

Client: The Government of the Hong Kong Special Administrative Region
 Highways Department
 Major Works Project Management Office
 Consulting Engineering: Mott Connell Ltd.
 40/F Hopewell Centre
 183 Queen's Road East, Hong Kong
 Tel No: 2828 2757
 Fax No: 2827 1823

Project: Investigation Assignment for Widening of Tolo Highway / Fanning Highway between Island House interchange and Fanning

Scale: 1:2000
 Contract No / Unit: Mott Connell
 Drawing No: 5.5.6

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**Spot Measurements of the
 Leq(5min) Noise Levels at
 Dynasty View &
 Monastery at Ma Wo**

Legend:

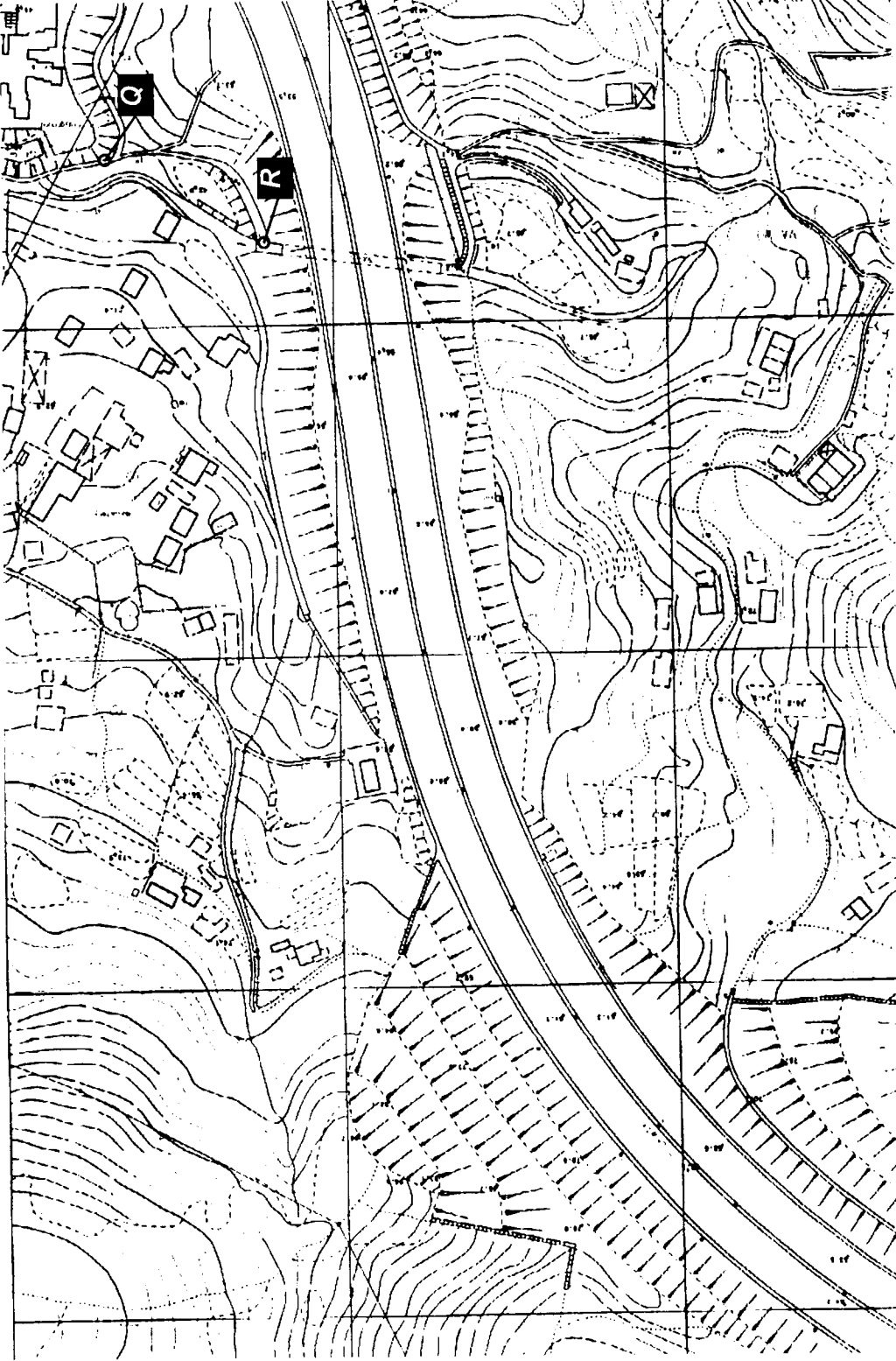
- Measurement
- Location

Q **Dynasty View 2**
03/06/1999, PM
Duration 5 minutes

L₁₀ 61.5 dB(A)
L_{eq} 59.6 dB(A)
L₉₀ 55.5 dB(A)

R **Ma Wo 1**
03/06/1999, PM
Duration 5 minutes

L₁₀ 66.5 dB(A)
L_{eq} 63.9 dB(A)
L₉₀ 58.5 dB(A)



Rev.	Date	By	Description	Checked	Appr.
1	03/06/99	YCS	Issue for MCL	YCS	YCS

Client: The Government of the Hong Kong Special Administrative Region
 Highways Department
 Major Works Project Management Office

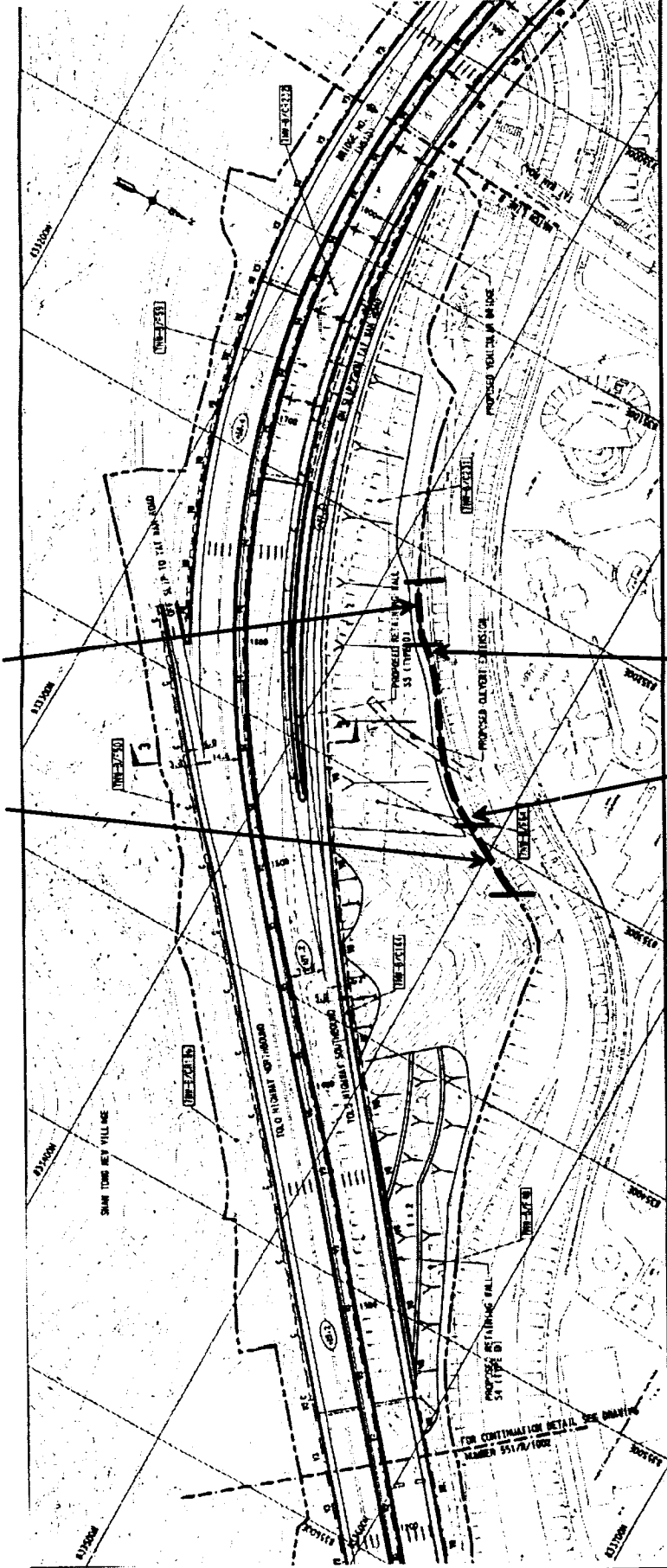
Consulting Engineering: **Mott Connell Ltd.**
 40/F Hopwood Centre
 183 Queen's Road East
 Hong Kong

Tel No: 2828 5757
 Fax No: 2877 1823

Project: Investigation Assignment for Widening of Tolo Highway / Fei Tung Highway between Island House Interchange and Fei Tung

Background Noise
Measurement Result at
Dynasty View and Ma Wo

3.5 m high vertical barrier



5.5 m high barrier

Rev	Date	Dim	Description	Checked	By

Designed: Enrica HK Ltd
 Checked: Mar 2000
 Approved: For A/C
 Date of issue:

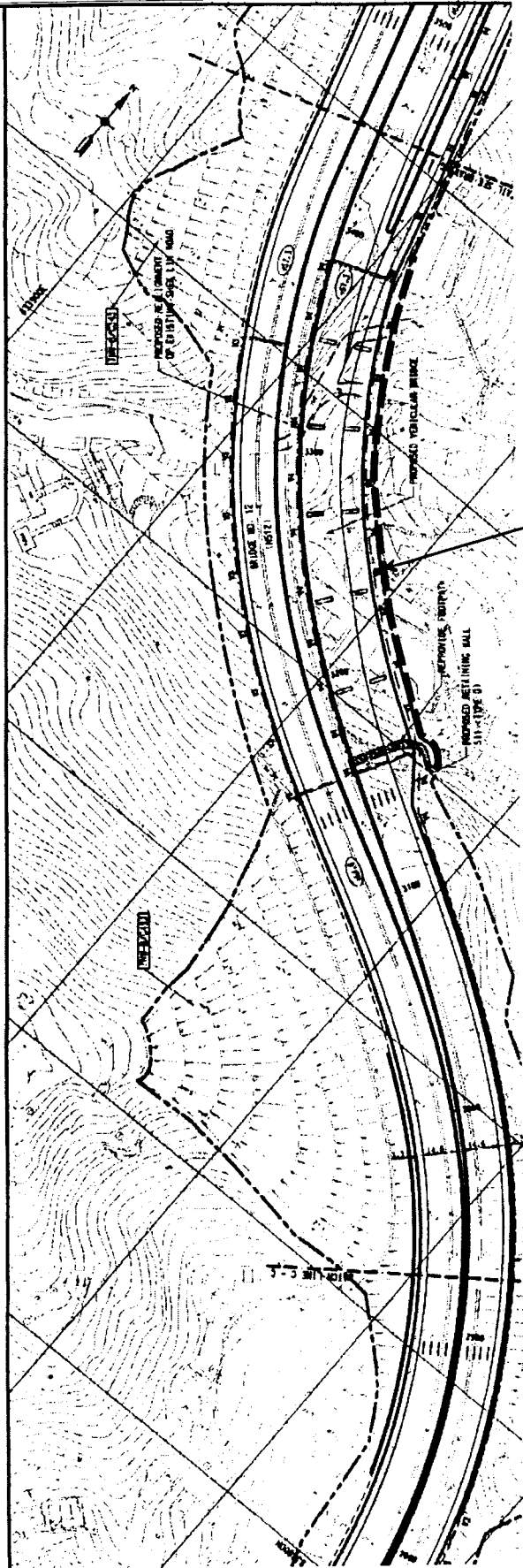
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 Special Administrative Region
 Highways Department
 Major Works Project Management Office

Mott
Connell
 Consulting Engineers
 40/F Hopwood Centre
 183 Queen's Road East,
 Hong Kong
 Tel No: 2828 5757
 Fax No: 2827 1823

Project: Investigation Assignment for Widening of
 Tolo Highway / Fanning Highway between
 Island House Interchange and Fanning

**Proposed Locations of
 Purpose-Built Noise Barriers
 During Construction**

Scale: NTS
 Covered No / Unit: 5.6.1
 Drawing No: 5.6.1
 Rev:



**3 m high vertical barrier at ground level for bridge foundation and substructure &
2 m high vertical barrier at bridge level for bridge superstructure work**

Rev. Date. Dim. Description. Dep. Cont. Appr'd.
 Designer: Entwos HK Ltd. Date: Mar. 2000. Checked:
 Approved: For M.C.S. Date of Issue:
 Client:

The Government of the Hong Kong
 Special Administrative Region
 Highways Department
 Major Works Project Management Office

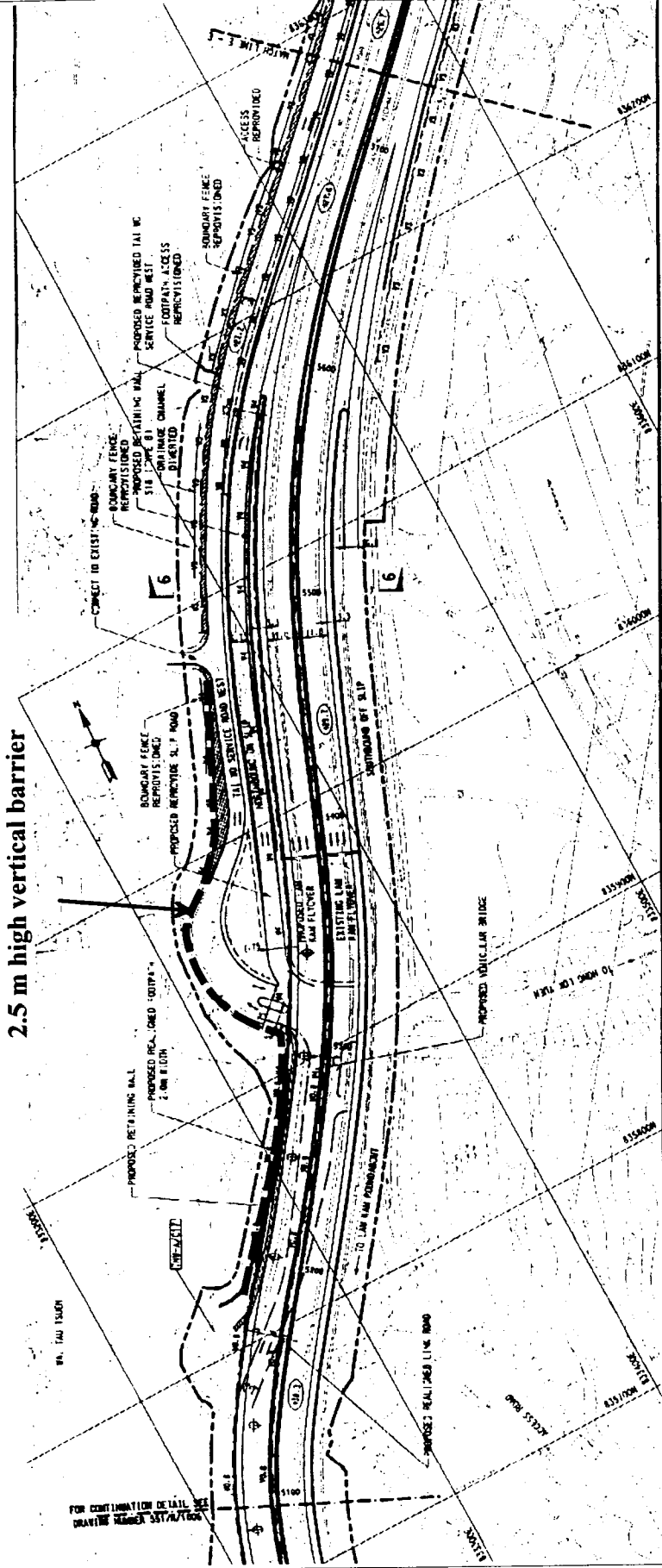
Consulting Engineers
Mott Connell Ltd.
 40/F Hopewell Centre
 183 Queen's Road East,
 Hong Kong
 Tel No. 2828 5757
 Fax No. 2827 1823

Project: Investigation Assignment for Widening of
 Tolo Highway / Fanning Highway between
 Island House Interchange and Fanning

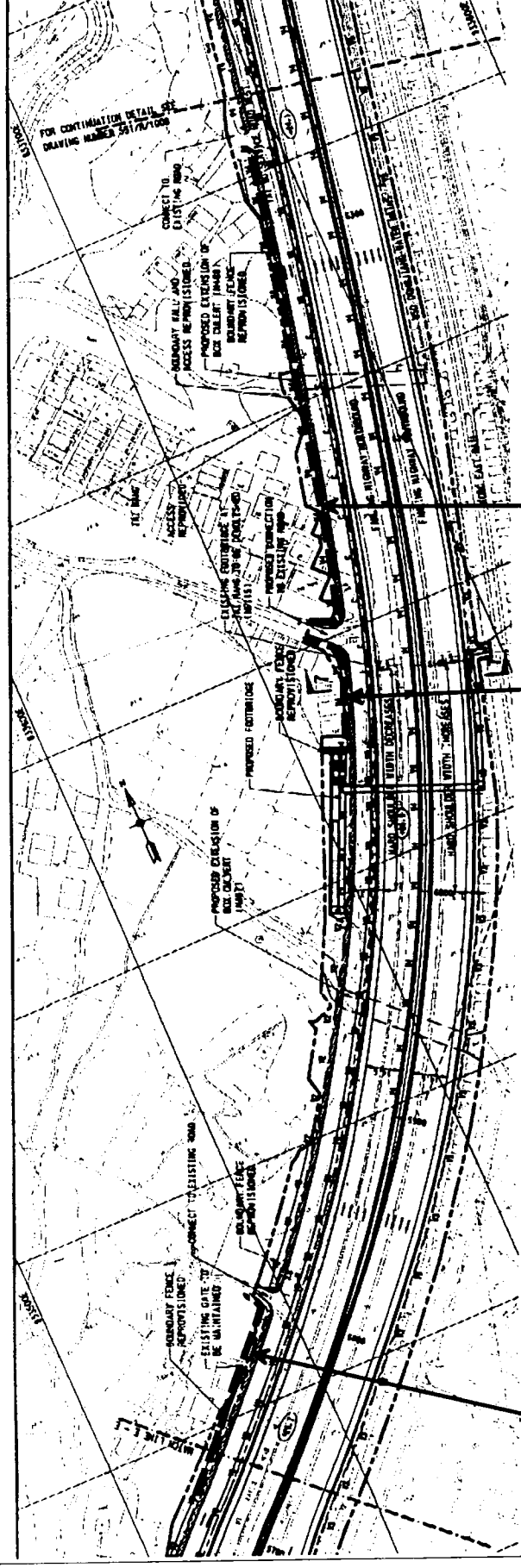
Title: **Proposed Locations of
 Purpose-Built Noise Barriers
 During Construction**

Scale: NTS
 Contract No. / Unit:
 Drawing No. 5.6.2
 Rev.

2.5 m high vertical barrier



3.5 m high vertical barrier



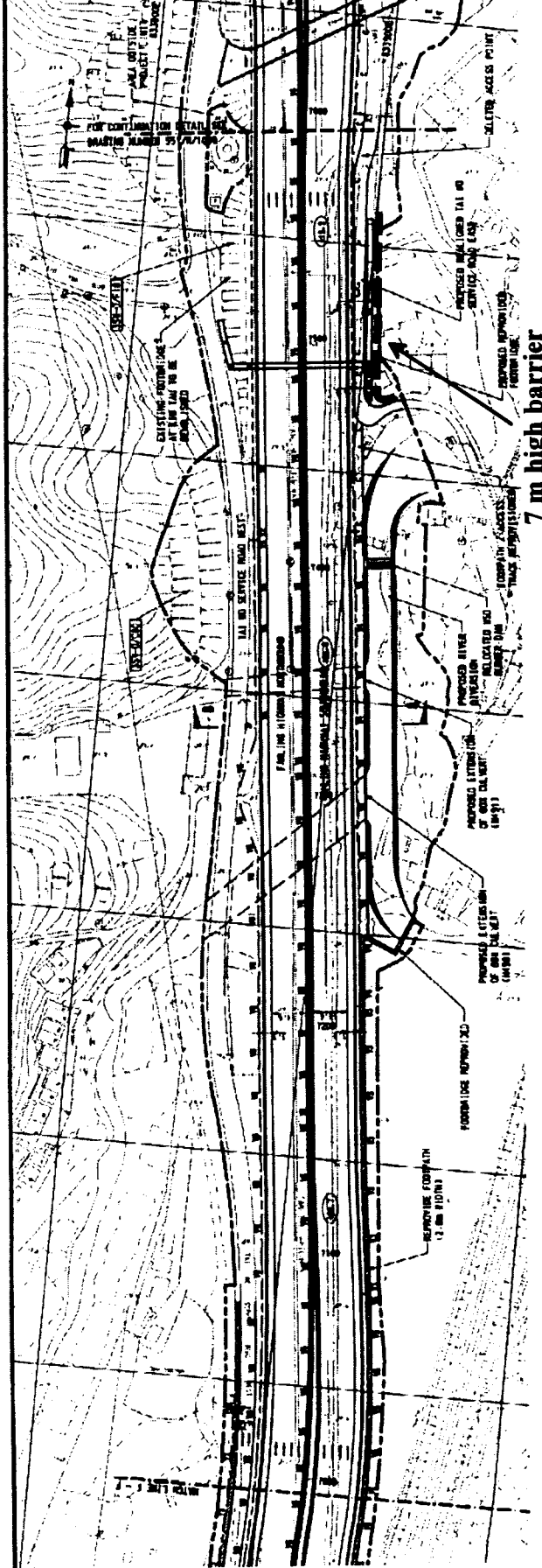
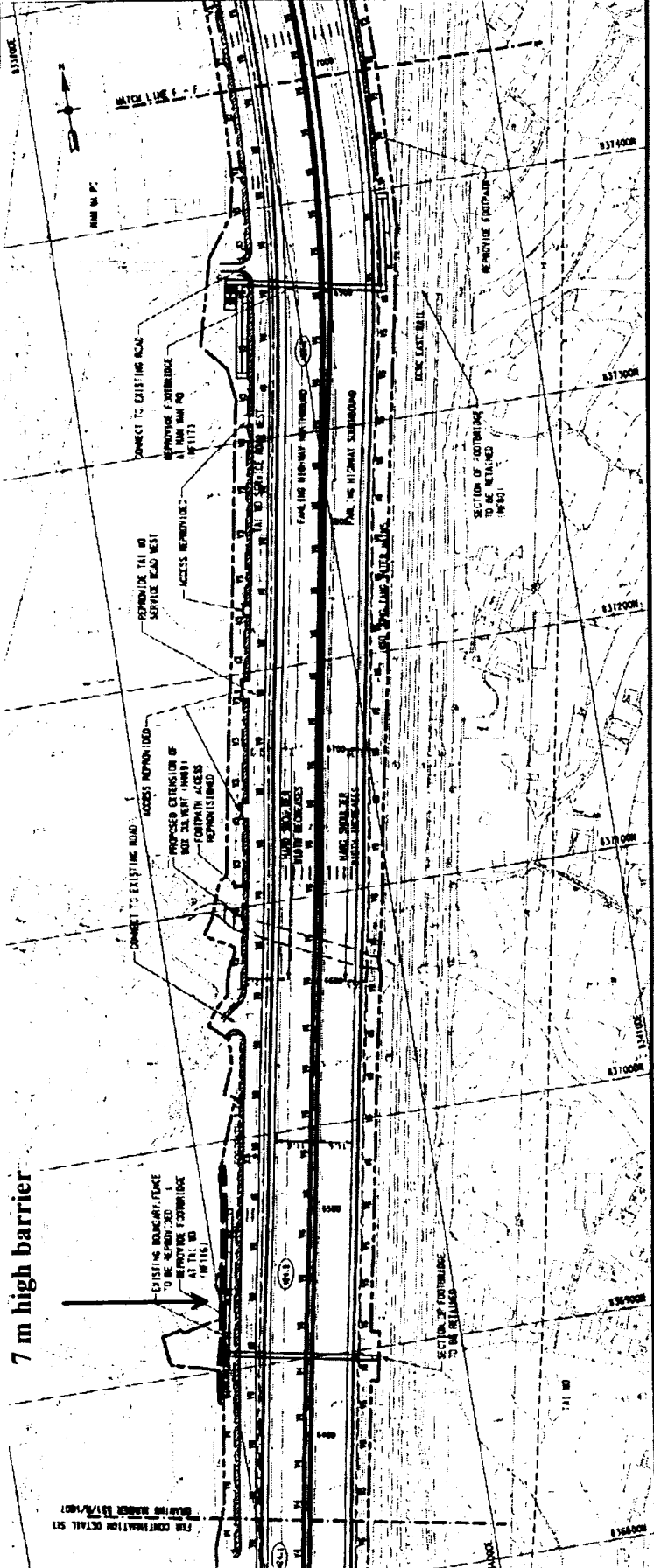
Rev: _____ Date: _____ Description: _____ Top: _____ Cont: _____ Issue: _____
 Drawn: Enrica HK Ltd Date: Mar 2009 Checked: _____
 Approved: For M.C. Date of Issue: _____
 Client: _____
Mott **Connell** **Ltd**
 Consulting Engineers
 The Government of the Hong Kong Special Administrative Region
 Highways Department
 Major Works Project Management Office
 Mott
 407 Hoppers Centre
 118 Queen's Road East,
 Hong Kong
 Tel No: 2828 5757
 Fax No: 2827 1823

Investigation Assignment for Widening of
 Tolo Highway / Feiling Highway between
 Island House Interchange and Feiling

Proposed Locations of Purpose-Built Noise Barriers During Construction

7 m high barrier

FOR CONTINUATION DETAIL SEE DRAWING NUMBER 5574/2007



7 m high barrier

Rev	Date	Description	By	Check	Appr

Checked
 Drawn: Emma's HK Ltd Date: Mar. 2008
 Project: M117
 Client: The Government of the Hong Kong Special Administrative Region
 Major Works Project Management Office
 Mott Contell Ltd.
 407 Hopwood Centre
 83 Queen's Road East,
 Hong Kong
 Tel No: 2028 5757
 Fax No: 2027 1823

Investigation Assignment for Widening of
 Tolo Highway / Faling Highway between
 Island House Interchange and Faling

Proposed Locations of Purpose-Built Noise Barriers During Construction

Scale: NTS

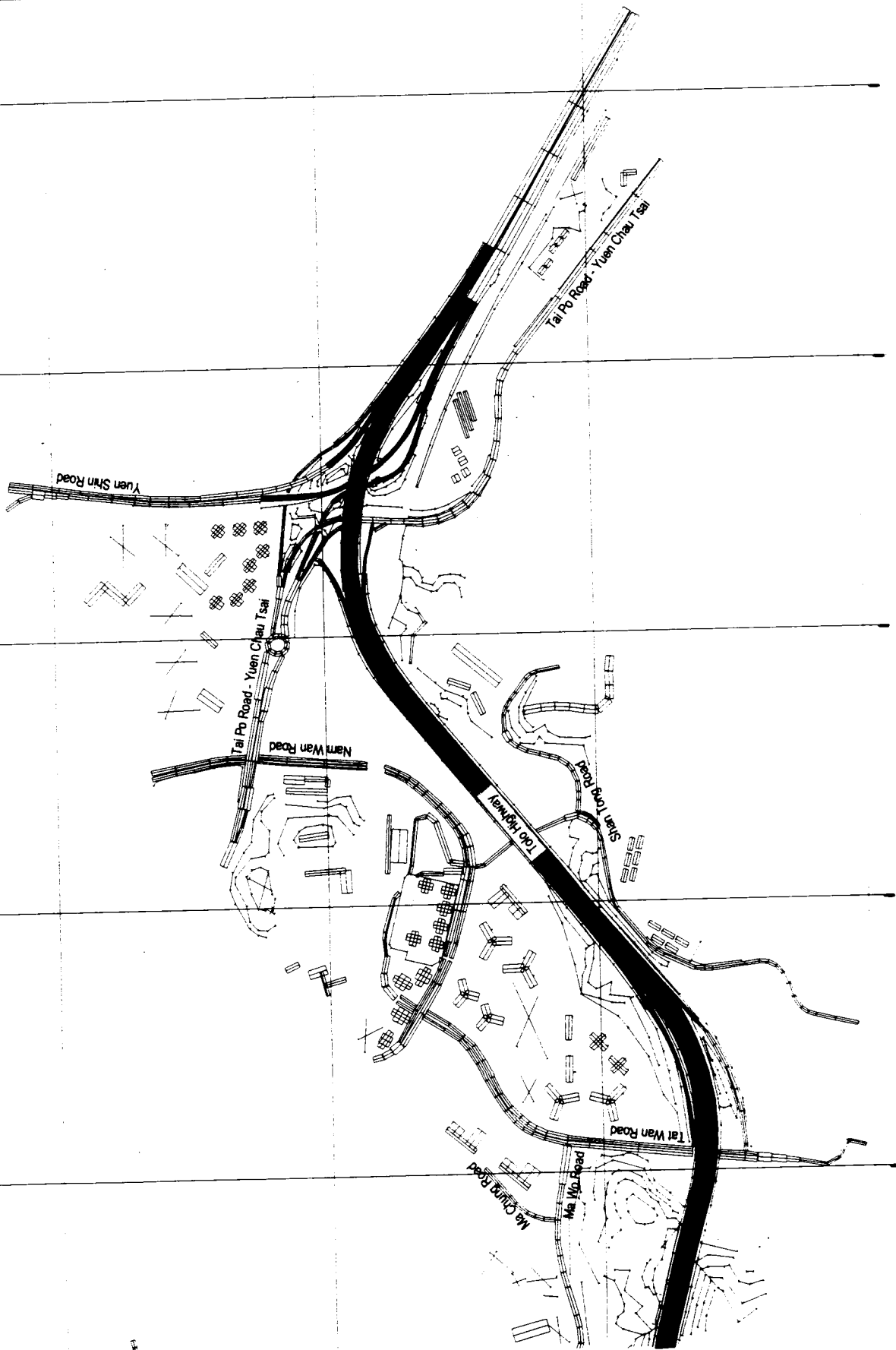
Contract No / Line: 564

Drawing No: 564

Rev

Legend:

- New Roads
- Existing Roads



Rev	Date	By	Description	Dr	Chk	Appr

Design: SERRAVALLO S.P.A. Ltd Date: Mar 2000 Checked:
 Approved: For Issue:
 Client: The Government of the Hong Kong Special Administrative Region Highways Department
 Major Works Project Management Office
Mott Connell Ltd Consulting Engineers
 40/F Hopewell Centre 183 Queen's Road East Hong Kong
 Project: Investigation Assignment for Widening of Tolo Highway / Fanning Highway between Island House Interchange and Fanning
 Tel No. 2828 9757 Fax No. 2827 1823
 Scale: 1:7500
 Contract No./Unit:
 Drawing No: 571
 Issue:
 Mott Connell Ltd
 Illustration of "New" and "Existing" Roads for Road Traffic Noise Modelling - Area 1
 Scale: 1:7500
 Contract No./Unit:
 Drawing No: 571
 Issue:
 Mott Connell Ltd
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Drawing No

Legend:

- New Roads
- Existing Roads



Rev	Date	By	Description	Dr	Chk	Appr
1	2000					

Drawn: **Estimate I.T.K. Ltd.** Date: **Mar 2000** Checked:
 Approved: For M.C. Date of Issue:
 Client:

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 Highways Department
 Major Works Project Management Office
 Consulting Engineers
Mott Connell Ltd.
 40/F Hopewell Centre
 183 Queen's Road East
 Hong Kong
 Tel No: 2828 9727
 Fax No: 2827 1823

Project: Investigation/Assignment for Widening of Tolo Highway / Failing Highway between Island House Interchange and Failing
 The:

Illustration of "New" and "Existing" Roads for Road Traffic Noise Modelling - Area 2

Scale: 1:7500
 Contract No./Unit:
 Drawing No: **572**
 Rev:

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 1/2000

Drawing No

Legend:

-  New Roads
-  Existing Roads

Rev	Date	By	Description	Disc	Drawn	Checked
01	2000
02	2000

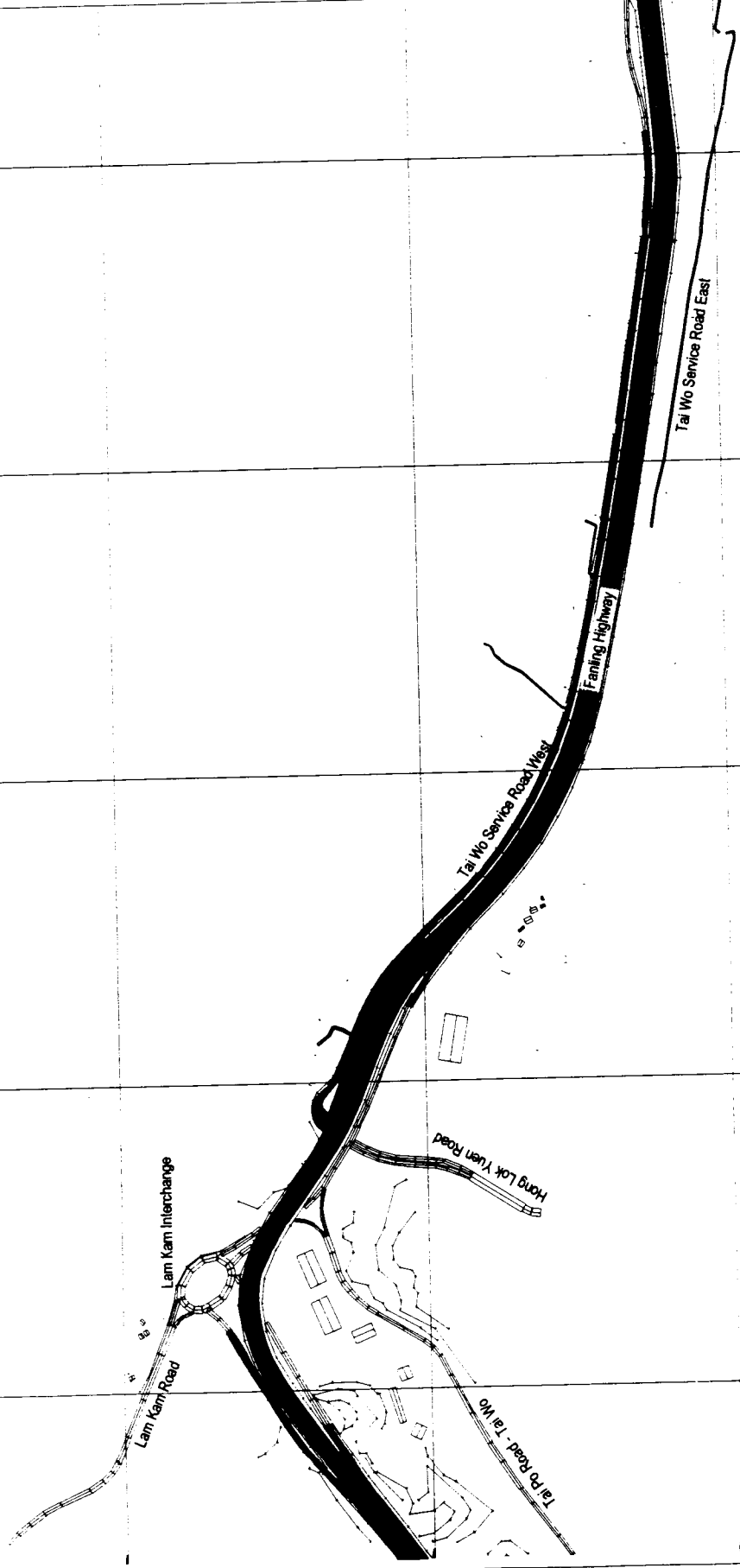
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Special Administrative Region
Highways Department
Major Works Project Management Office

Mott
Mott
Cornell
Ltd.

Investigation Assignment for Widening of
Tolo Highway / Fanning Highway between
Island House Interchange and Fanning

Scale 1 : 7500
Contract No / List
Drawing No 573
Rev

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Drawing No

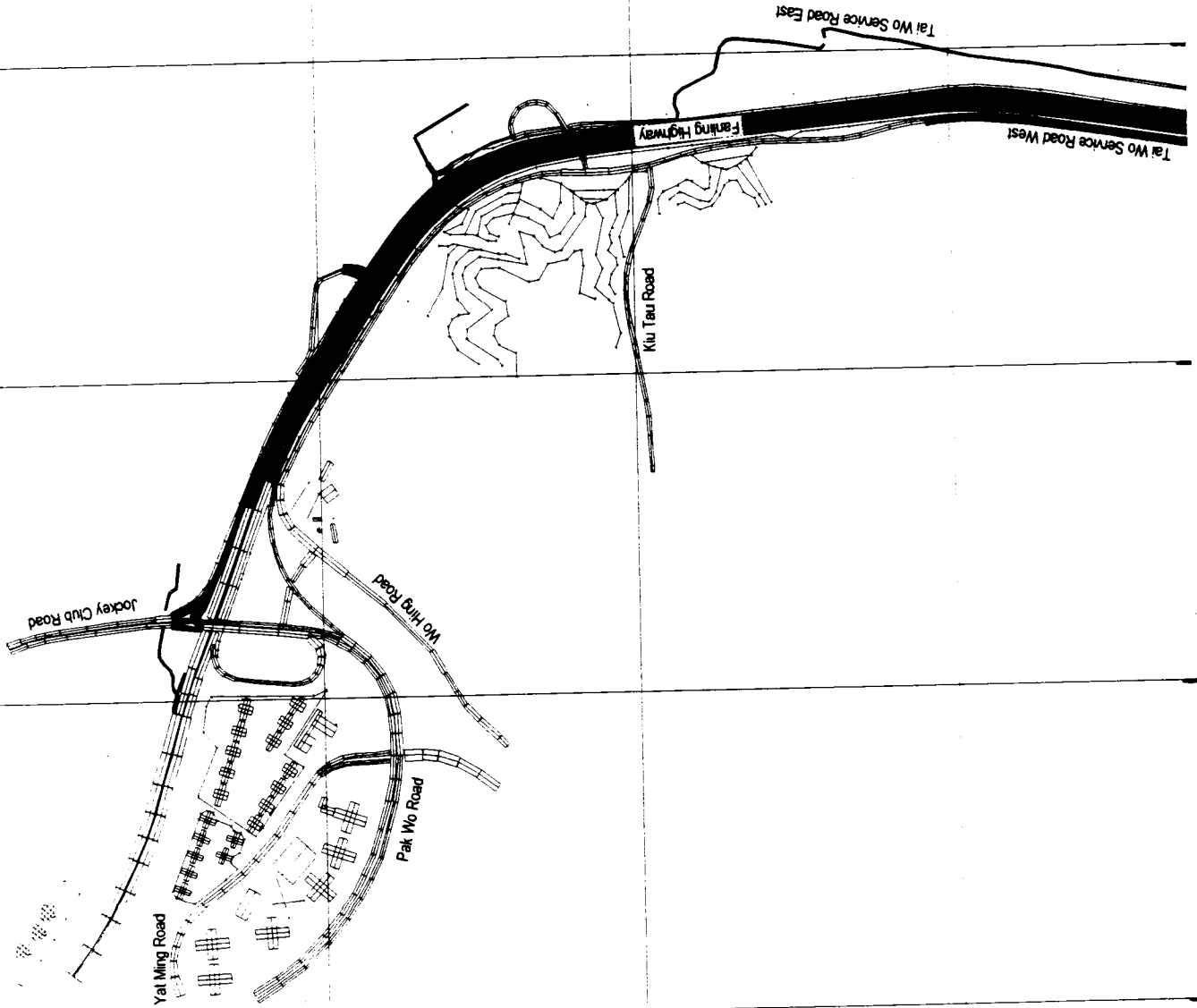
Legend:



New Roads



Existing Roads

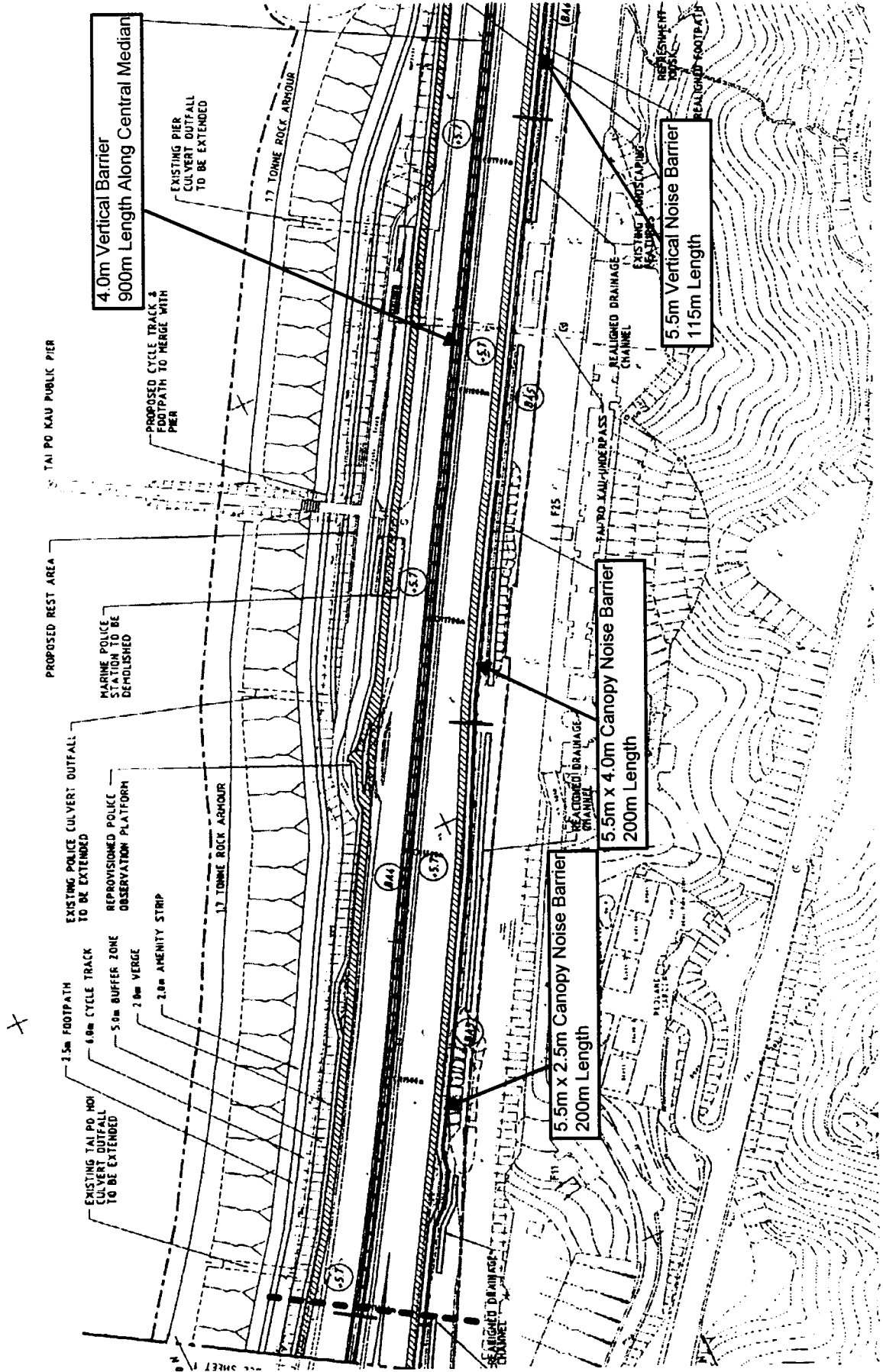


Rev.	Date	By	Description	Sign	Check	Page
Developed	Drawn	Checked	Approved			
Simon H. K. Liu	Apr 2010	Checked				
		For MCL	Date of Issue			

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 Highways Department
 Major Works Project Management Office
 Consulting Engineering
Mott Connell Ltd.
 40/F, Harbour Centre
 183 Queen's Road East
 Hong Kong
 Tel No 2878 5157
 Fax No 287 1823
 Project: Investigation Assessment for Widening of
 Toa Highway / Fanning Highway between
 Island House Interchange and Fanning
 The
**Illustration of "New" and "Existing"
 Roads for Road Traffic Noise
 Modelling - Area 4**

Scale 1 : 7500
 Contract No / Unit
Mott Connell
 Drawing No 574
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 CAD File

Project Limit under the Current Study

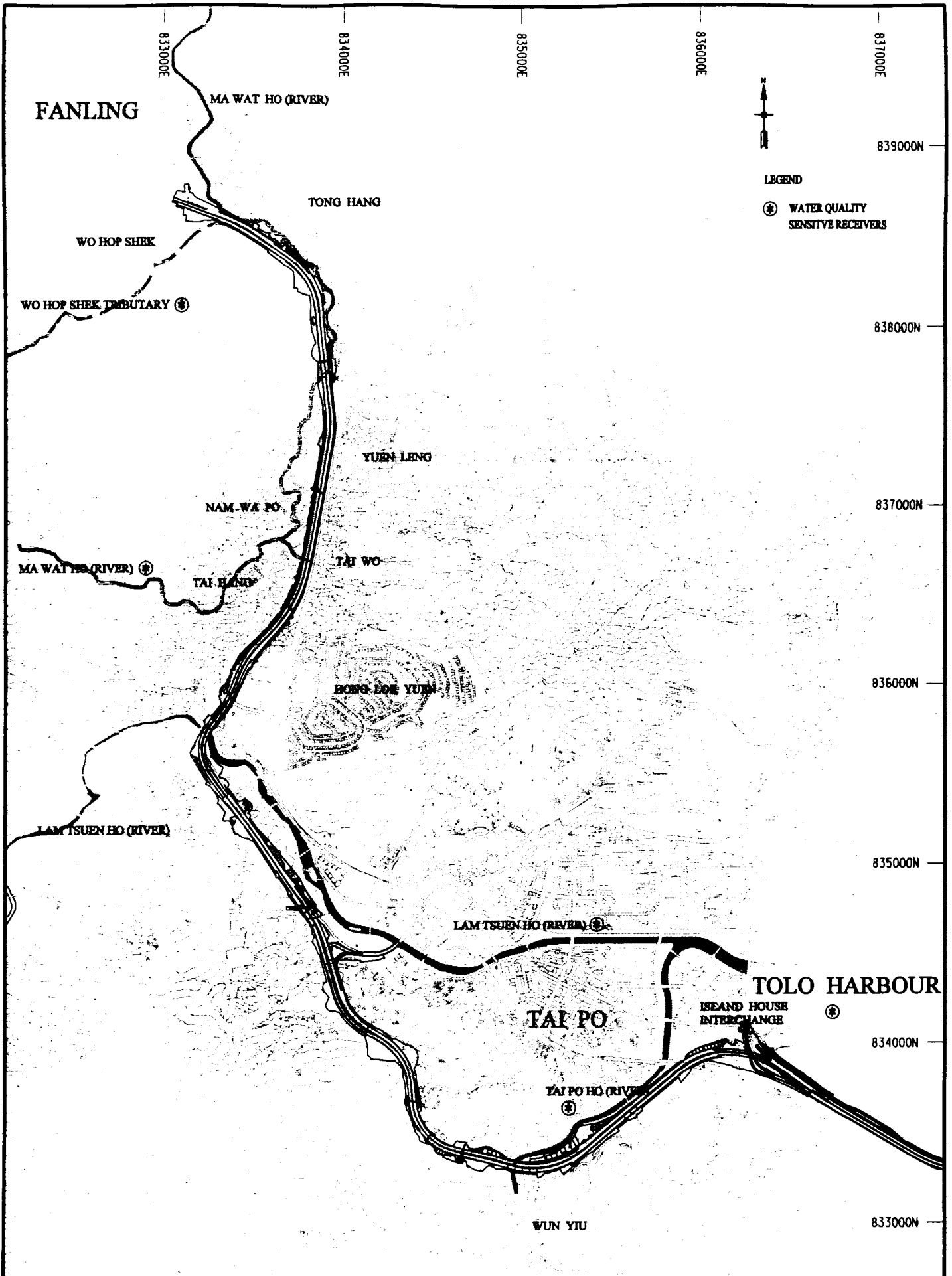



Rev: [] Date: [] Description: []
 Drawn: [] Date: []
 Checked: [] Date: Feb 2000
 Approved: [] For M.O.: [] Date of Issue: []
 Client: []

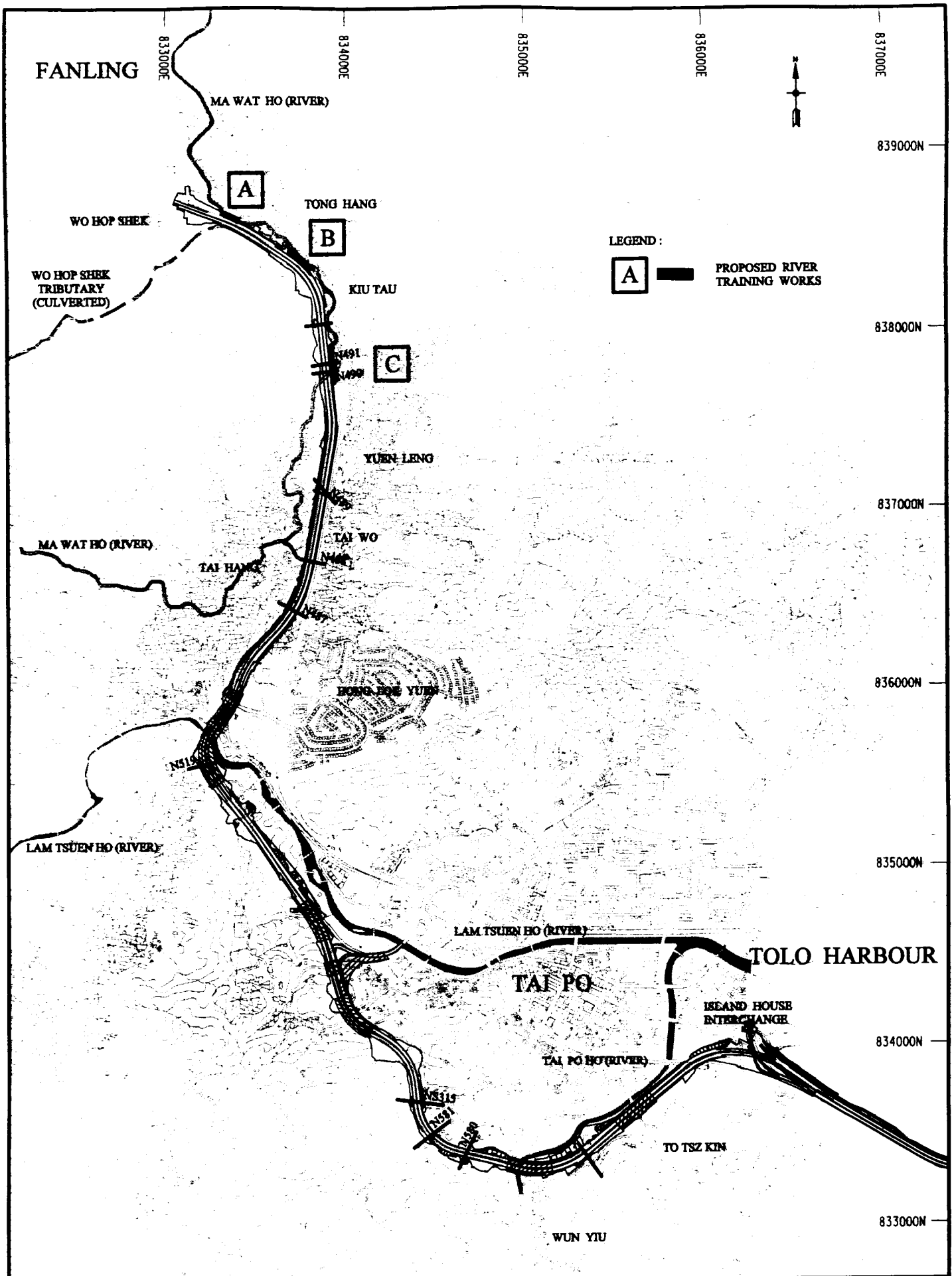
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 Special Administrative Region
 Highways Department
 Major Works Project Management Office
 Consulting Engineering
**Mott
 Corneill Ltd**
 40/F Hopewell Centre
 183 Queen's Road East
 Hong Kong
 Tel No: 2828 5157
 Fax No: 2827 1823

Project: Investigation Assignment for Widening of
 Tolo Highway / Finishing Highway between
 Island House Interchange and Failing

Scale: NTS
 Contract No / Unit: []
 Drawing No: 5.8
 Rev: D
 Copyright Reserved: []
 CAD File: []



Project Investigation Assignment for Widening of Tolo/Fanling Highways between Island House Interchange and Fanling	Title Water Quality Sensitive Receivers		
	Date JUNE 1999	Scale 1 : 20000	
	CAD File : I:\PROJECTS55\PRELIM\DRAWING\FIG61P2		



Project Investigation Assignment for Widening of Toi/Fanling Highways between Island House Interchange and Fanling	Title Proposed River Training Works			
	Date NOV. 1999	Scale 1 : 20000		Figure 6.2
	CAD File : I:\PROJECT\351\PRELIM\DRAWING\FIG6.2P1			

LEGEND :

100m STUDY BOUNDARY
500m STUDY BOUNDARY

TERRESTRIAL HABITAT

- PLANTATION WOODLAND
- NATURAL WOODLAND
- FUNG SHUI WOODLAND
- GRASSLAND
- ACTIVE AGRICULTURAL LAND
- INACTIVE AGRICULTURAL LAND
- BUILDING / VILLAGE / URBANISED AREA
- CEMETERY

FRESHWATER HABITAT

- ARTIFICIAL DRAINAGE CHANNEL
- RIVER
- STREAM

Rev.	Date	Description	Des.	Chk.	Appr.
Designed					Checked
Drawn	Enrico HK Limited	Date: August 1998			Checked
Approved		For A/C.L.			Date of Issue: December 1998
Client	The Government of the Hong Kong Special Administrative Region Highways Department Major Works Project Management Office				



Mott Connell Ltd.
 Consulting Engineers
 40/F Hopwood Centre
 183 Queen's Road East
 Hong Kong
 Phone: 2828 9757
 Fax No: 2827 1623

Investigation Assignment for Widening of
 Tolo Highway / Fanling Highway between
 Island House Interchange and Fanling

Area 1
 The Habitat Map Showing
 The Tolo Highway/Fanling
 Highway And The 100M And
 500M Study Area

Scale: Not To Scale
 Contract No: / Unit
 Figure No: 8.1.1
 Rev.



Tong Hang

KOWLOON CANTON RAILWAY
Fanling Highway

Kiu Fung

Fanling Centre

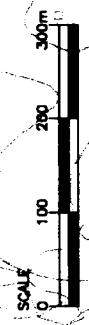
WONG KONG SHAN

WO HOP SHEK

Wo Hing Tsuen

Wo Hop Shek San Tsuen

Wah Ming Estate



LEGEND :

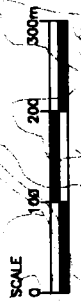
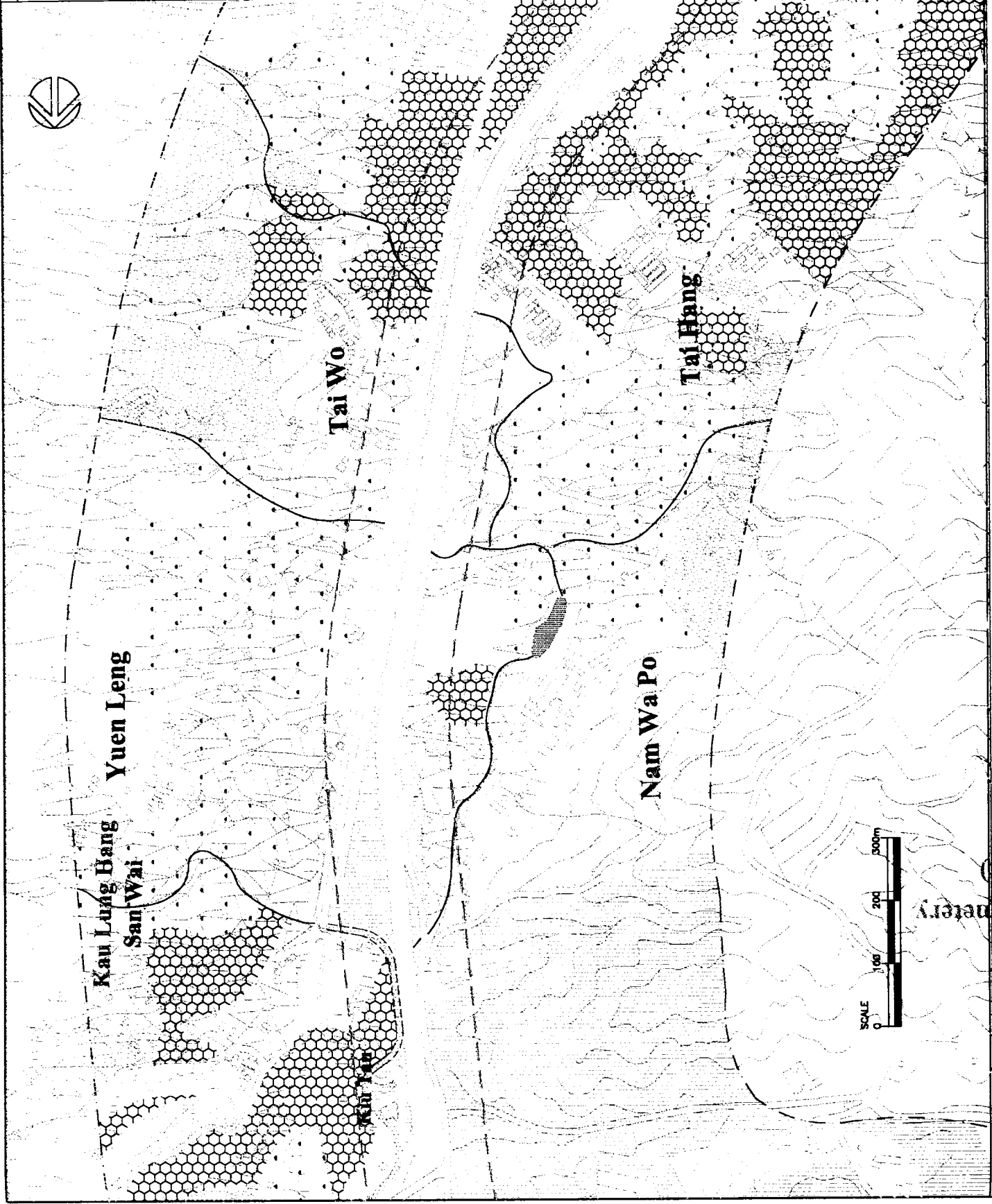
100m STUDY BOUNDARY
 500m STUDY BOUNDARY

TERRESTRIAL HABITAT

PLANTATION WOODLAND
 NATURAL WOODLAND
 FUNG SHUI WOODLAND
 ACTIVE AGRICULTURAL LAND
 INACTIVE AGRICULTURAL LAND
 BUILDING / VILLAGE / URBANISED AREA
 CEMETERY

FRESHWATER HABITAT

ARTIFICIAL DRAINAGE CHANNEL
 POND
 RIVER
 STREAM



Property

Rev	Date	DN	Description	Dgn	Chd	App'd
Design'd			Checked			
Drawn	Enrica M. Lumbati	Date: August 1998	Checked			
Approved		For M.C.L.	Date of Issue: December 1999			

Client
 The Government of the Hong Kong Special Administrative Region
 Highways Department
 Major Works Project Management Office

Consulting Engineering
Mott Connell Ltd.
 40F Hopwood Centre
 183 Queen's Road East
 Hong Kong
 Project

Tel No: 2828 5757
 Fax No: 2827 1623

Investigation Assignment for Widening of Tolo Highway / Fanning Highway between Island House Interchange and Fanning

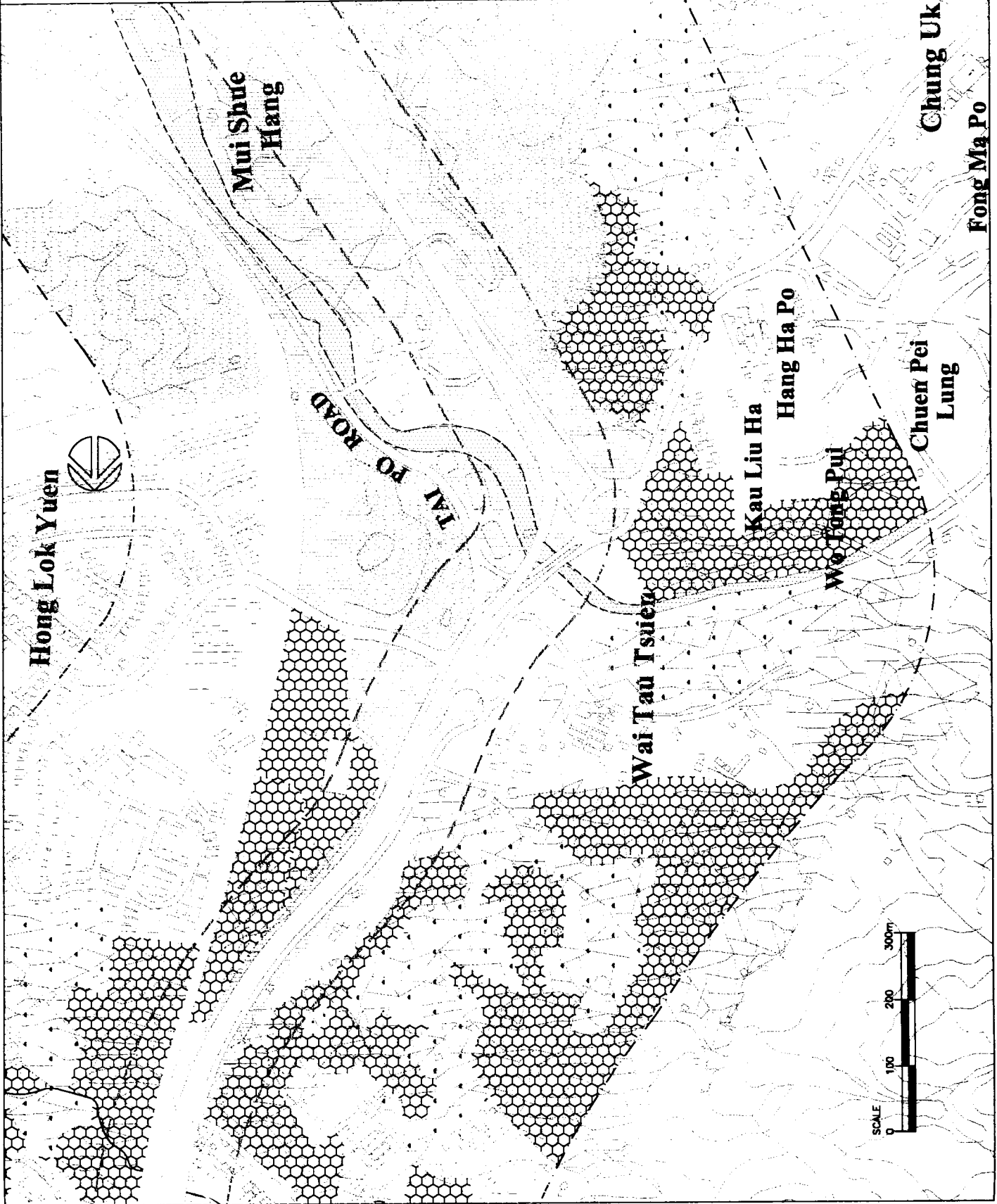
The
Area 2
 The Habitat Map Showing
 The Tolo Highway/Fanning
 Highway And The 100M And
 500M Study Area

Scale Not To Scale
 Mott Connell
 Figure No. 8.1.2

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 CAD File

LEGEND :

- 100m STUDY BOUNDARY
- 800m STUDY BOUNDARY
- TERRESTRIAL HABITAT
 - PLANTATION WOODLAND
 - NATURAL WOODLAND
 - ACTIVE AGRICULTURAL LAND
 - INACTIVE AGRICULTURAL LAND
 - BUILDING / VILLAGE / URBANISED AREA
- FRESHWATER HABITAT
 - ARTIFICIAL DRAINAGE CHANNEL
 - RIVER
 - STREAM



Rev.	Date	Desc.	By	Chk	Appd.
01	18/08/99	Issue for ICL
02	18/08/99	Check

For ICL: Date of issue: December 1999
 The Government of the Hong Kong Special Administrative Region
 Highways Department
 Major Works Project Management Office

Consulting Engineering
MOTT CORNELL Ltd.
 40/F Hopewell Centre
 118 Queen's Road East
 Hong Kong
 Project

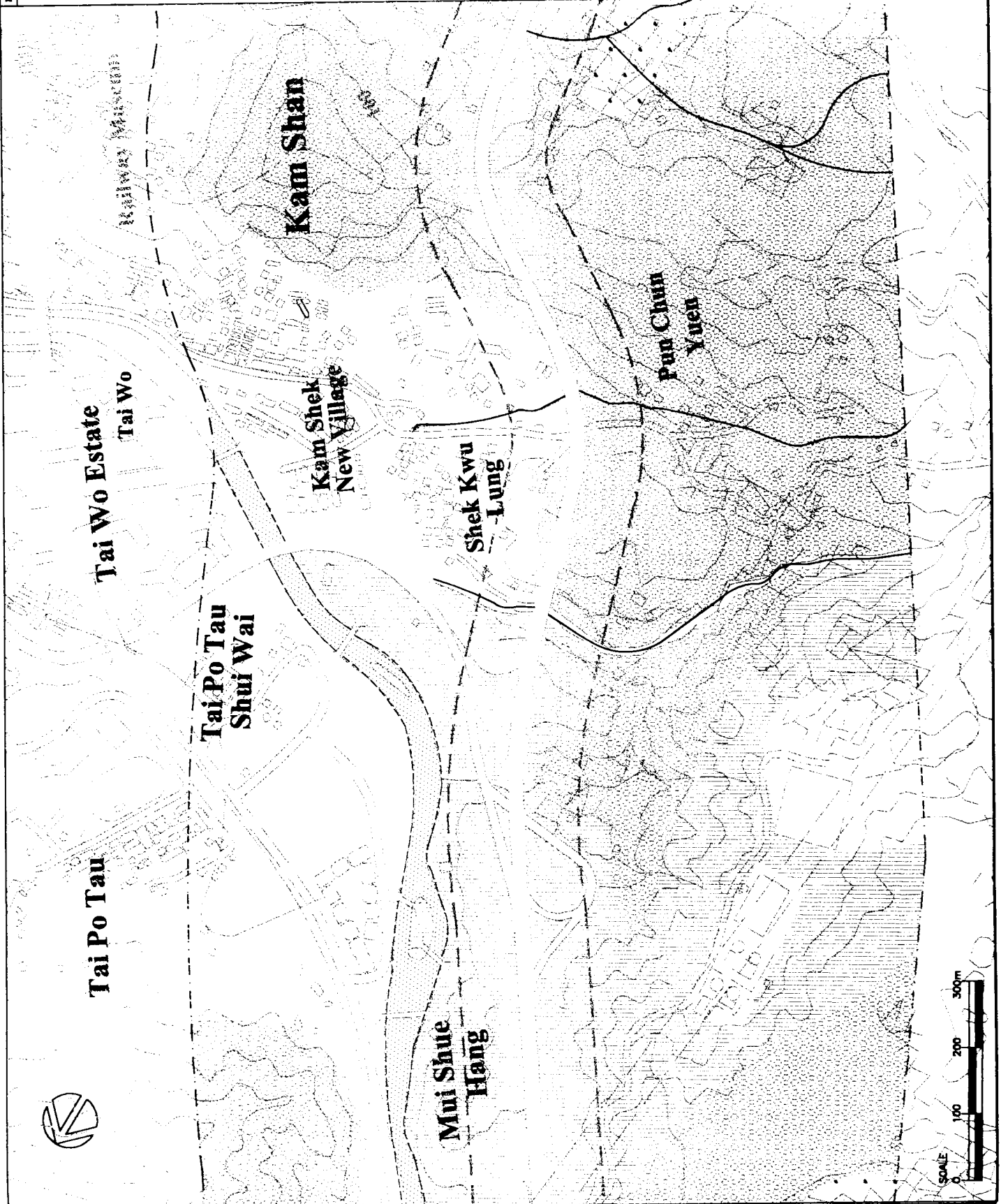
Tel No: 2628 5757
 Fax No: 2627 1823
 Investigation Assignment for Widening of Tolo Highway / Fanning Highway between Island House Interchange and Fanning

The Area 3
 The Habitat Map Showing
 The Tolo Highway/Fanning
 Highway And The 100M And
 500M Study Area

Mott Contract No. / UK
 Cornell
 Figure No. 8.1.3
 Scale: Not To Scale
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LEGEND :

- 100m STUDY BOUNDARY
- - - 500m STUDY BOUNDARY
- TERRESTRIAL HABITAT**
- PLANTATION WOODLAND
- NATURAL WOODLAND
- FUNG SHUI WOODLAND
- INACTIVE AGRICULTURAL LAND
- BUILDING / VILLAGE / URBANISED AREA
- FRESHWATER HABITAT
- ARTIFICIAL DRAINAGE CHANNEL
- RIVER
- STREAM



Rev.	Date	Description	By	Chk.	App'd.

Drawn: Enrica HK Limited Date: August 1999 Checked: _____
 For A.C.L. Date of Issue: December 1999
 Approved: _____
 Client: The Government of the Hong Kong Special Administrative Region Highways Department Major Works Project Management Office
 Consulting Engineering: **Mott** Mott Connell Ltd. 40/F Hopewell Centre 183 Queen's Road East, Hong Kong
 Tel No: 2628 5757 Fax No: 2627 1623
 Project: Investigation Assignment for Widening of Tolo Highway / Fanning Highway between Island House Interchange and Fanning

Area 4
 The Habitat Map Showing The Tolo Highway/Fanning Highway And The 100M And 500M Study Area

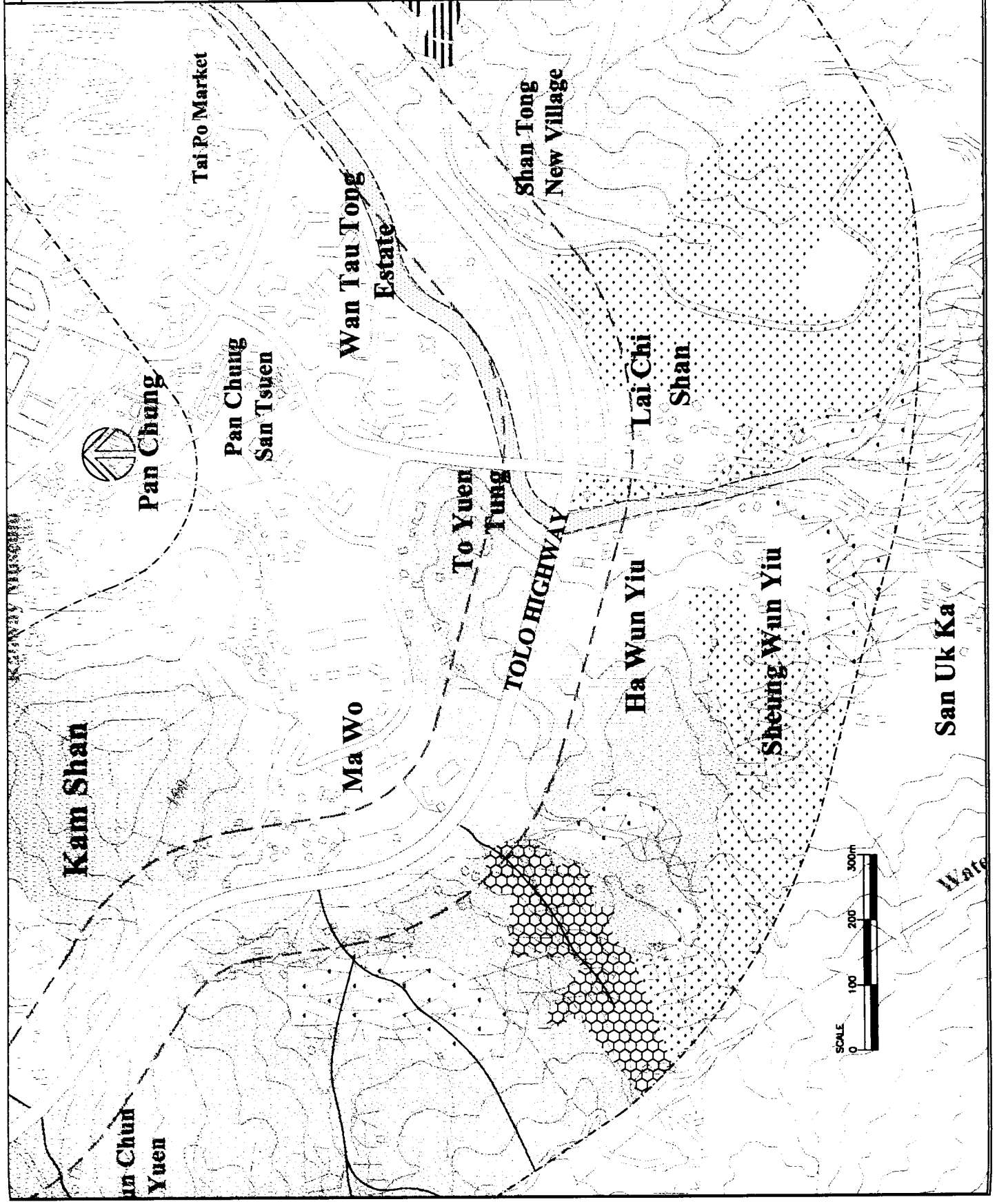
Scale: Not To Scale
 Contract No. / Unit: _____
 Figure No. 8.1.4
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 CAD File: _____



LEGEND :

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- - -	STUDY HABITAT
TERRESTRIAL HABITAT	
[Symbol]	PLANTATION WOODLAND
[Symbol]	NATURAL WOODLAND
[Symbol]	FUNG SHUI WOODLAND
[Symbol]	GRASSLAND
[Symbol]	ACTIVE AGRICULTURAL LAND
[Symbol]	INACTIVE AGRICULTURAL LAND
[Symbol]	BUILDING / VILLAGE / URBANISED AREA
[Symbol]	ORCHARD
FRESHWATER HABITAT	
[Symbol]	ARTIFICIAL DRAINAGE CHANNEL
[Symbol]	RIVER
[Symbol]	STREAM

Prep.	Date	By	Description	Drawn	Checked
Design	Date	By	Description	Drawn	Checked
Drawn	Date	By	Description	Drawn	Checked
Approved	Date	By	Description	Drawn	Checked
Client	The Government of the Hong Kong Special Administrative Region				
	Highways Department				
	Major Works Project Management Office				
	Consulting Engineering				
	Mott Connell Ltd.				
	40/F Hopwood Centre				
	183 Queen's Road East,				
	Hong Kong				
	Tel No	2626 6757			
	Fax No	2627 1823			
Project					
Investigation Assignment for Widening of Tolo Highway / Fanning Highway between Island House Interchange and Fanning					
The Area 5					
The Habitat Map Showing The Tolo Highway/Fanning Highway And The 100M And 500M Study Area					
Scale: Not To Scale					
Contract No./Lot					
Figure No. 6.1.5					
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CAD File					



LEGEND :

100m STUDY BOUNDARY
500m STUDY BOUNDARY

TERRESTRIAL HABITAT

PLANTATION WOODLAND
NATURAL WOODLAND
FUNG SHUI WOODLAND
GRASSLAND
ACTIVE AGRICULTURAL LAND
INACTIVE AGRICULTURAL LAND

ORCHARD
BUILDING / VILLAGE / UNBUILT AREA
PARK

FRESHWATER HABITAT
ARTIFICIAL DRAINAGE CHANNEL
RIVER
STREAM

INTERITAL HABITAT
MUDFLATS
MANGROVES

MARINE HABITAT
SEA

No.	Date	Dr.	Description	Dr.	Chk	Appr.
Drawn	2008/08/08	Y. L.	Drawn	Y. L.	Y. L.	Y. L.
Checked	2008/08/08	Y. L.	Checked	Y. L.	Y. L.	Y. L.
Approved	2008/08/08	Y. L.	Approved	Y. L.	Y. L.	Y. L.

The Government of the Hong Kong
Special Administrative Region
Highways Department
Major Works Project Management Office



Mott
Macdonald
Ltd.

40/F Hopewell Centre
183 Queen's Road East
Hong Kong

Tel No. 2828 9757
Fax No. 2827 1823

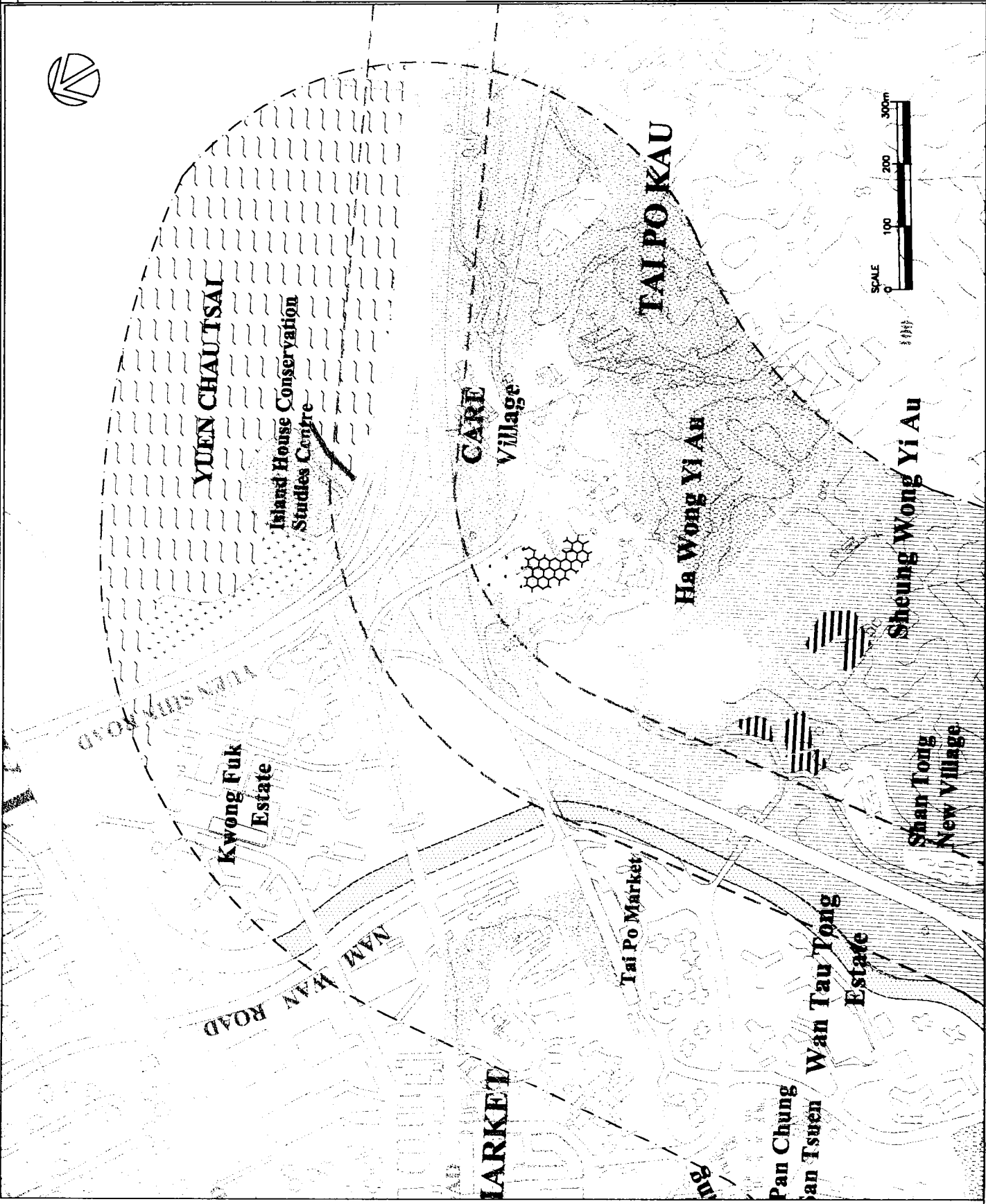
Project
Investigation Assignment for Widening of
Tolo Highway / Fanning Highway between
Island House Interchange and Fanning

The
Area 6

The Habitat Map Showing
The Tolo Highway/Fanning
Highway And The 100M And
500M Study Area

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Macdonald
Scale Not To Scale
Contract No / Unit
Figure No
Rev

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Rev	Date	By	Description	Drawn	Checked	Appr'd

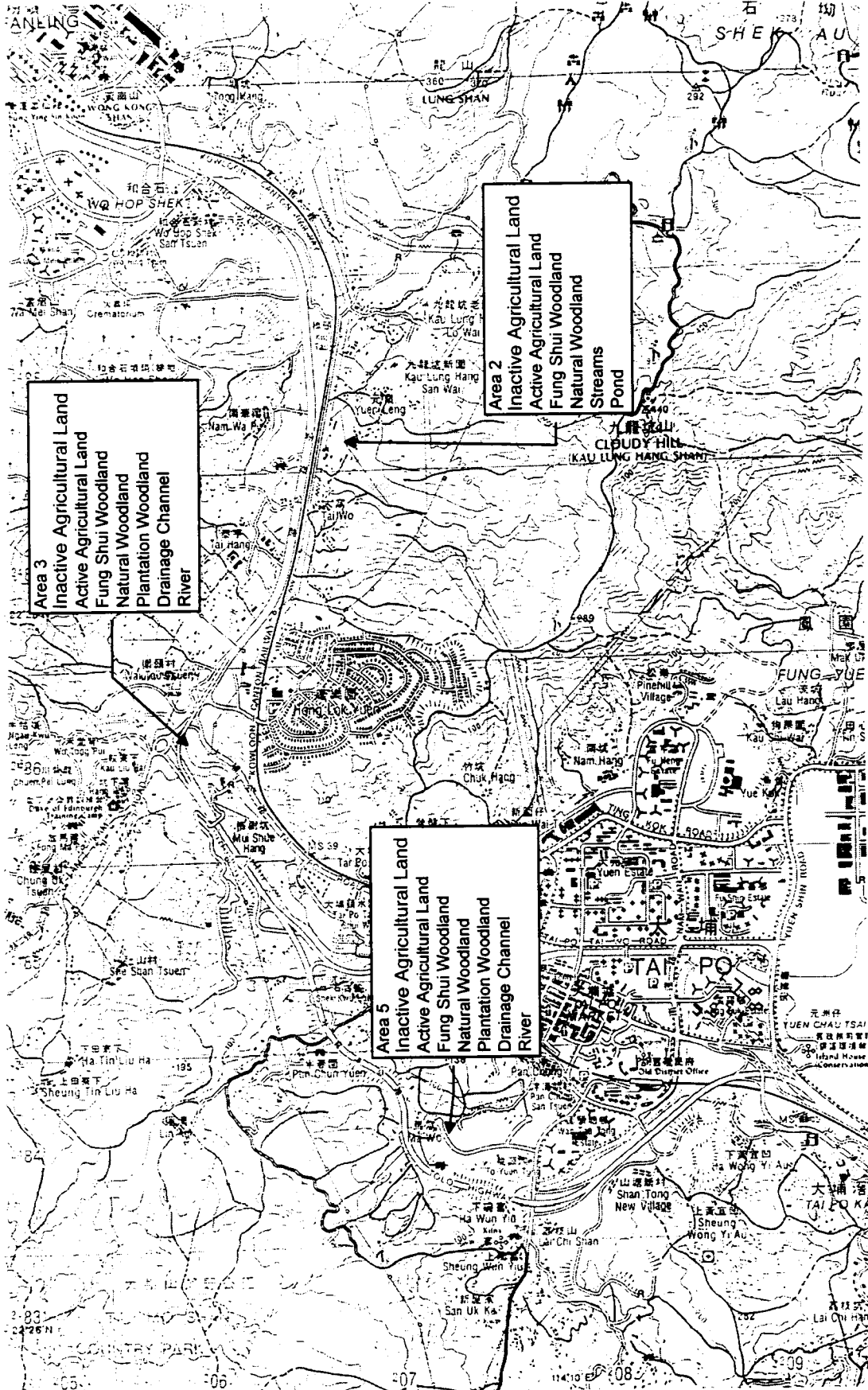
Client: The Government of the Hong Kong Special Administrative Region
Highways Department
Major Works Project Management Office

Consulting Engineers: Mott Connell Ltd
40/F Hopewell Centre
183 Queen's Road East
Hong Kong

Project: Investigation Assignment for Widening of Tolo Highway / Fanning Highway between Island House Interchange and Fanning

Tel No: 2838 575 / 183 Queen's Road East
Fax No: 2827 1823

Scale: NTS
Contract No / Lot: Mott Connell
Drawing No: 8.2



Location of Key Important Areas and Habitats Identified during the Baseline Ecological Surveys Utilised by Birds

Legend:

Bird Count Location (No. of Birds)



Revised	Drawn	Checked	Designation	Scale	Date
				NTS	July 1999
Original	Drawn	Checked	Date	Contract No. / Unit	
			July 1999		
Design	Entered HK Ltd	Checked	Date	Drawing No.	8.3.1
			October 1999		
Approved	For A/C	Date of Issue	Client		
		October 1999			

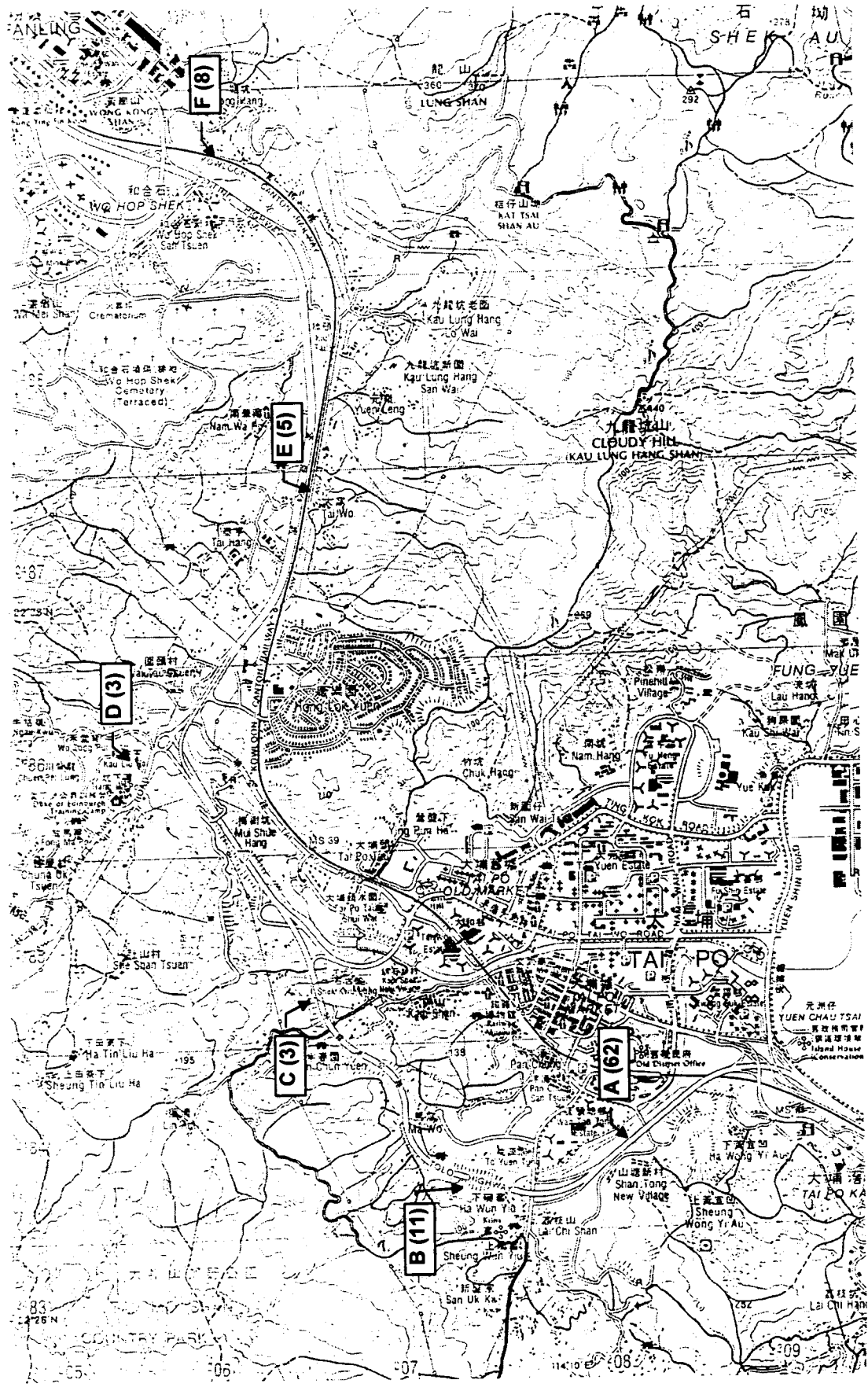
The Government of the Hong Kong Special Administrative Region
Highways Department
Major Works Project Management Office

Contract Engineer
Mott Connell Ltd.
40/F, Hopwood Centre
185 Canton Road East
Hong Kong
Tel No. 2828 5757
Fax No. 2827 6223
Project

Investigation Assignment for Widening of Tolo Highway / Fanning Highway between Island House Interchange and Fanning

Location of Point Counts and Number of Birds Identified at each site during May 1999

Mott Connell
Scale NTS
Contract No. / Unit
Drawing No. 8.3.1
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CAD File



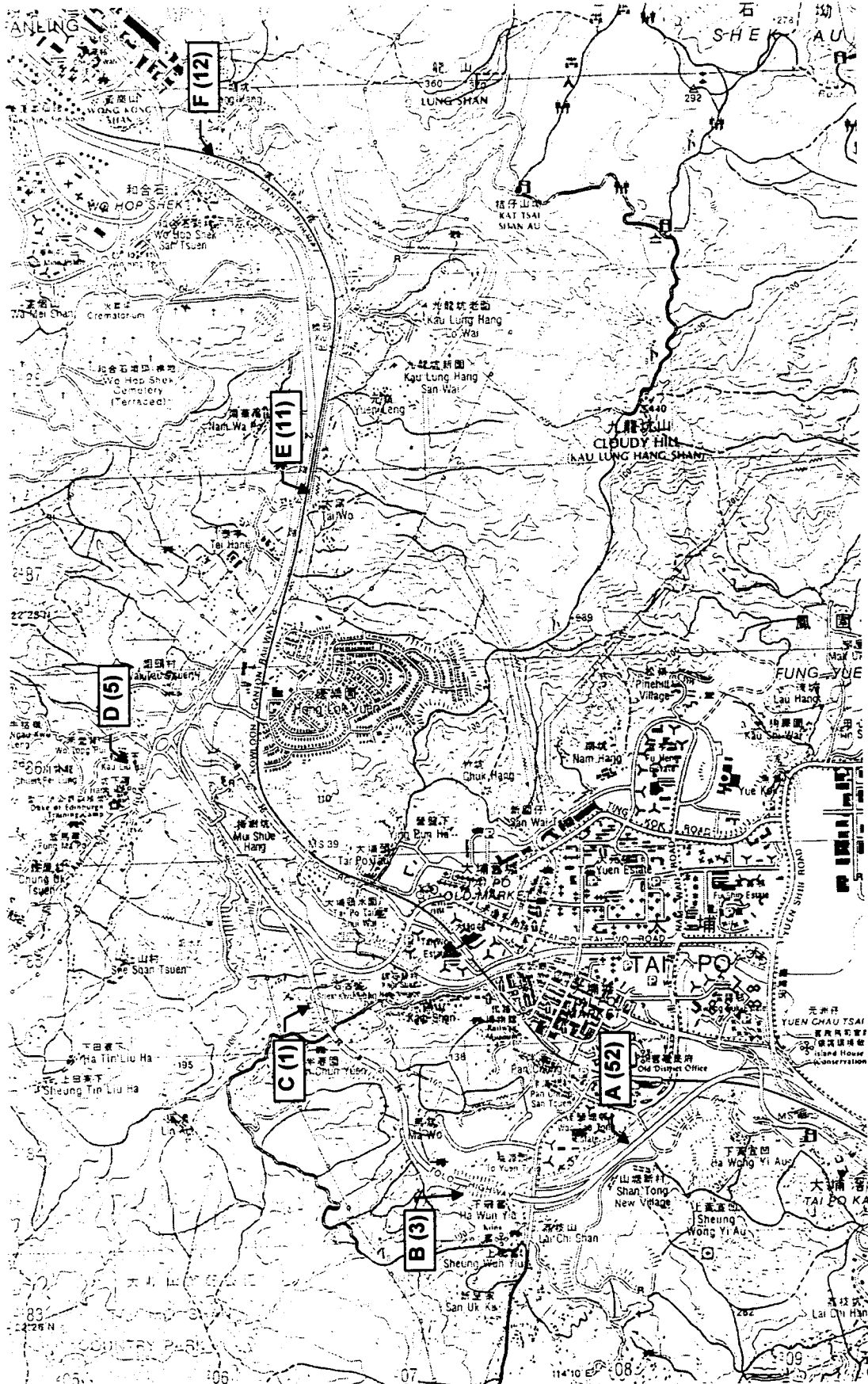
Bird Count Location (No. of Birds)



Rev	Date	By	Description	Drn	Chk	Page
01	1999					
02	2000					
03	2001					
04	2002					
05	2003					
06	2004					
07	2005					
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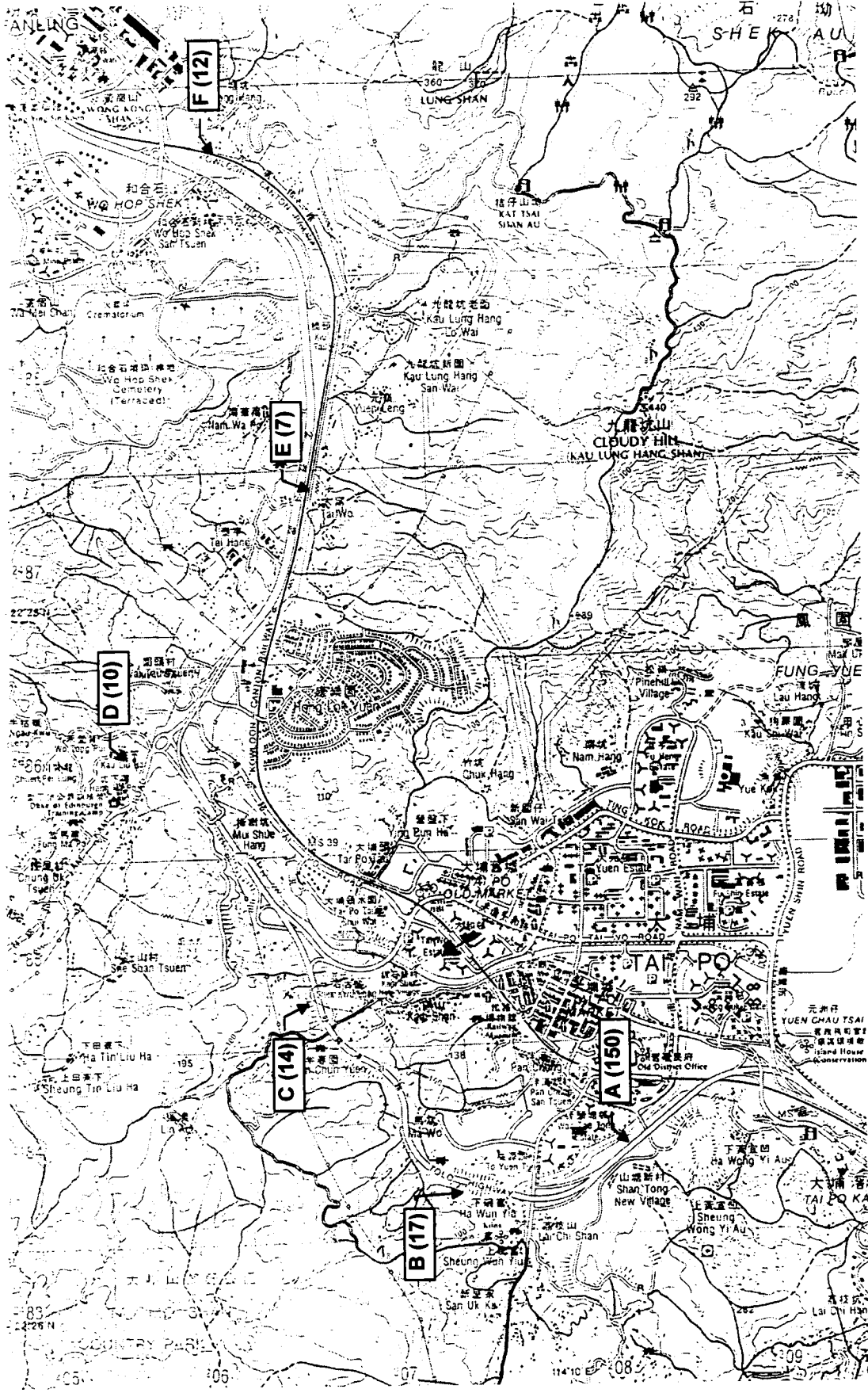
The Government of the Hong Kong Special Administrative Region
 Highways Department
 Major Works Project Management Office
 Consulting Engineering
Mott Connell Ltd.
 40/F Hopwood Centre
 183 Queen's Road East,
 Hong Kong
 Project
 Investigation Assignment for Widening of
 Tolo Highway / Fanning Highway between
 Island Highway Interchange and Fanning

Scale: NTS
 Contract No.: LHK
 Drawing No.: 8.3.2
 Rev:



Location of Point Counts and Number of Birds Identified at each site during June 1999

Bird Count Location (No. of Birds)



Rev.	Date	By	Description	Checked	Date	By
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The Government of the Hong Kong Special Administrative Region
 Highways Department
 Major Works Project Management Office

Consulting Engineering
Mott Connell Ltd.
 40/F Hopwood Centre
 183 Queen's Road East,
 Hong Kong
 Project

Tel No. 2525 2372
 Fax No. 2527 1623

Investigation Assignment for Widening of
 Tolo Highway / Fanning Highway between
 Island House Interchange and Fanning

Location of Point Counts and
 Number of Birds Identified
 at each site during July 1999

Scale NTS
 Contract No. / Unit
 Drawing No. 8.3.3

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Bird Count Location (No. of Birds)



Rev	Date	By	Description	Checked	For A/C	Date of Issue

Drawn: Enrich HK Ltd Date: Oct 1999
 Checked: Enrich HK Ltd Date: Oct 1999
 Approved: Enrich HK Ltd Date: Oct 1999
 Client: The Government of the Hong Kong Special Administrative Region
 Highways Department
 Major Works Project Management Office
 Consulting Engineer: Mott MacDonald Ltd.
 40/F, Industrial Centre, 183 Canton Road East, Hong Kong
 Tel No: 2828 5757 Fax No: 2827 1823
 Project: Investigation Assignment for Widening of Tolo Highway / Fanning Highway between Island House Interchange and Fanning

Scale: NTS
 Contract No / Unit: Mott MacDonald
 Drawing No: 8.3.4
 Rev: 1

Location of Point Counts and Number of Birds Identified at each site during August 1999

No.	Date	By	Description	Checked	By	Date
1			Prepared			
2			Checked			
3			Approved			

The Government of the Hong Kong
 Special Administrative Region
 Highways Department
 Major Works Project Management Office
 Consulting Engineering
Mott Connell Ltd.

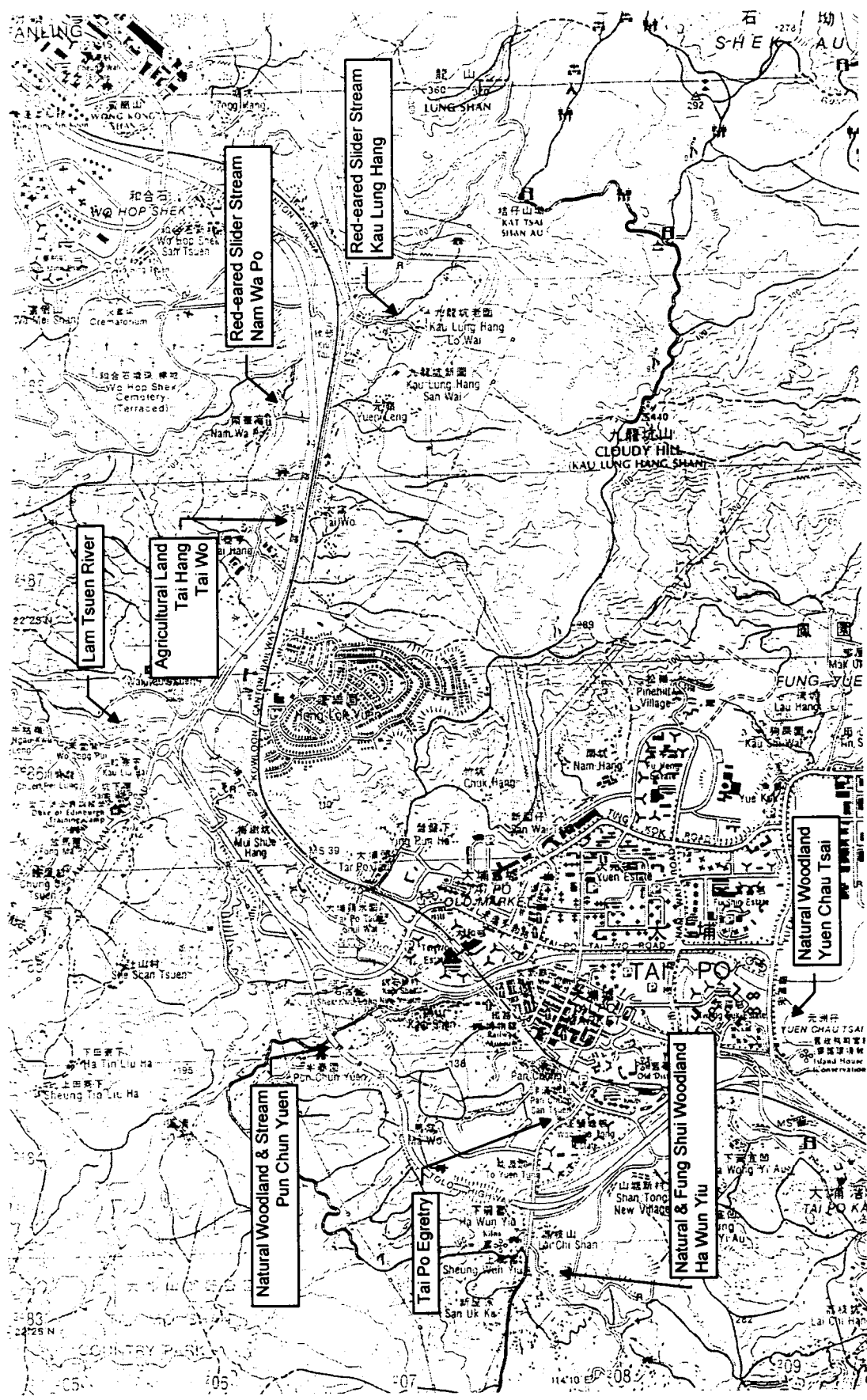
40/F Hopewell Centre
 183 Queen's Road East,
 Hong Kong
 Tel No 2838 5757
 Fax No 2837 8233

Project
 Investigation Assignment for Widening of
 Tolo Highway / Fanning Highway between
 Island House Interchange and Fanning

1:80

**Ecological Sensitive Receiver
 Locations**

Scale NTS
 Contract No / Unit
 Drawing No **8.4**
 Rev
 Mott Connell
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LEGEND :

--- 100m STUDY BOUNDARY	PLANTATION WOODLAND
--- 500m STUDY BOUNDARY	NATURAL WOODLAND
--- IMPACTED AREA	FUNG SHU WOODLAND
--- TERRESTRIAL HABITAT	GRASSLAND
--- ACTIVE AGRICULTURAL LAND	INACTIVE AGRICULTURAL LAND
--- BUILDING / VILLAGE / URBANISED AREA	CEMETERY
--- FRESHWATER HABITAT	ARTIFICIAL DRAINAGE CHANNEL
--- RIVER	
--- STREAM	

Rev.	Date	By	Description	Checked	Checked Date

Approved: For M.C.L. Date of Issue: December 1998
 Chief: [Signature]



The Government of the Hong Kong Special Administrative Region
 Highways Department
 Major Works Project Management Office

Consulting Engineer:

Mott Connell Ltd.

40F Hopwood Centre
 180 Queen's Road East,
 Hong Kong
 Tel No. 2838 6757
 Fax No. 2827 1823

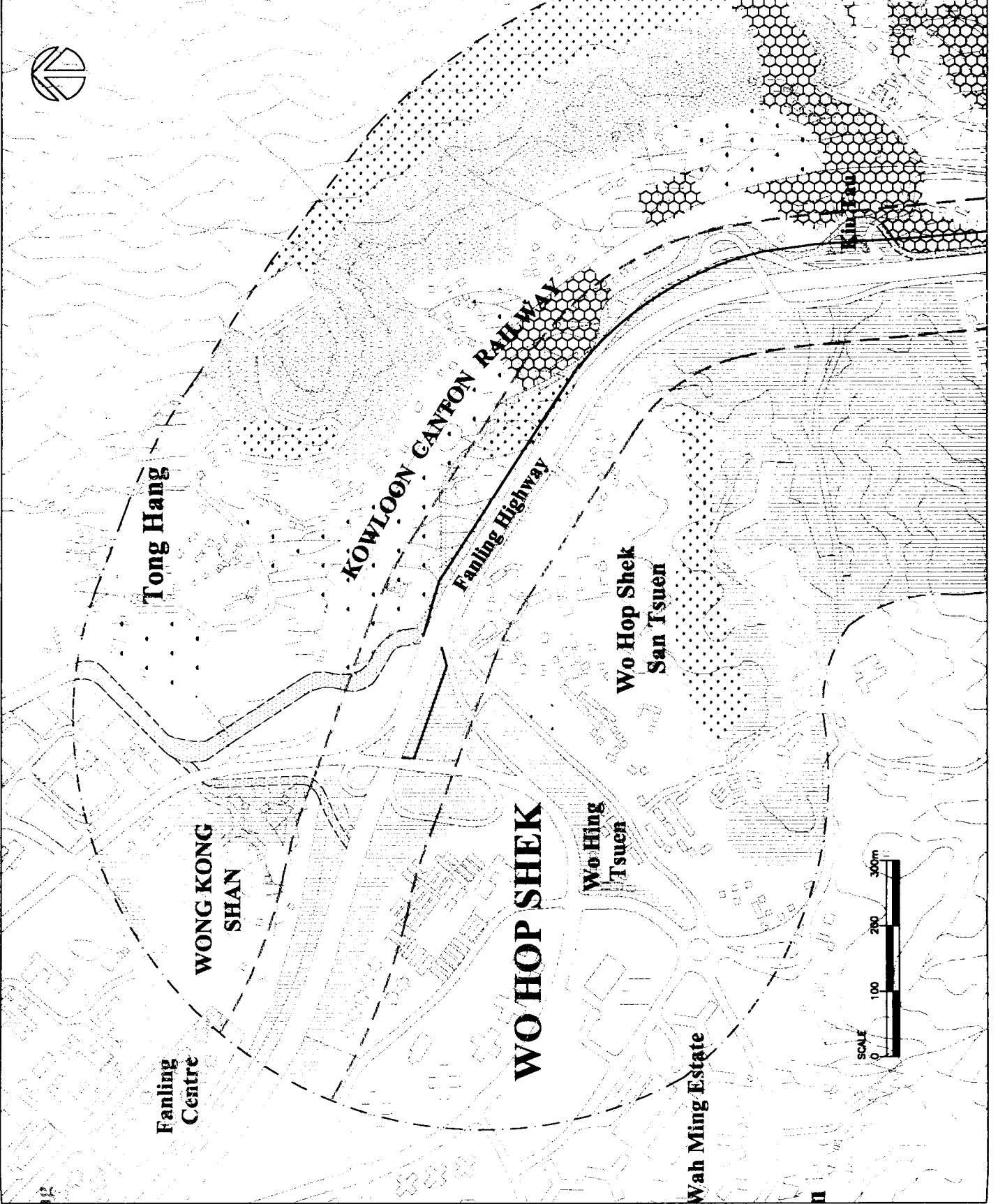
Investigation Assignment for Widening of
 Tolo Highway / Fanling Highway between
 Island House Interchange and Fanling



Area 1
 The Impacted Habitat

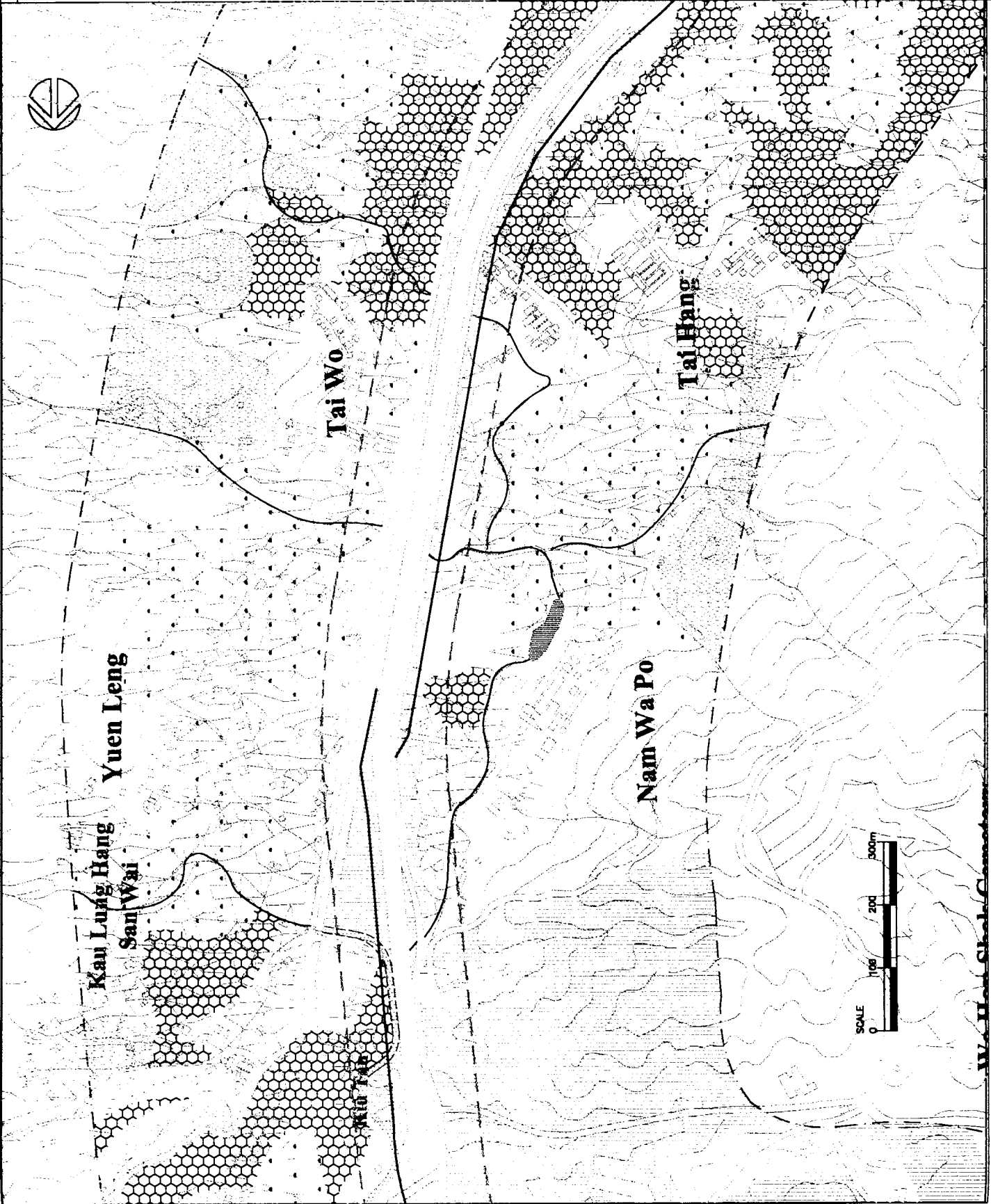
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Contract No. / Unit	
Figure No.	8.5.1
Rev.	

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LEGEND :

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--- (dotted line)	500m STUDY BOUNDARY
--- (solid line)	IMPACTED AREA
--- (dashed line)	IRRIGATIONAL HABITAT
--- (dotted line)	PLANTATION WOODLAND
--- (dotted line)	NATURAL WOODLAND
--- (dotted line)	FUNG SHU WOODLAND
--- (dotted line)	ACTIVE AGRICULTURAL LAND
--- (dotted line)	INACTIVE AGRICULTURAL LAND
--- (dotted line)	SEEDING / VILLAGE / UNIMPROVED AREA
--- (dotted line)	CEMETERY
--- (dotted line)	FRESHWATER HABITAT
--- (dotted line)	ARTIFICIAL DRAINAGE CHANNEL
--- (dotted line)	POND
--- (dotted line)	RIVER
--- (dotted line)	STREAM



Rev	Date	Description	Des	Appr
1	1998	Checked		
2	1998	Checked		
3	1998	Checked		

Drawn: Sincere HK Limited Date: August 1998 Checked: [Signature]
 Approved: [Signature] For MCL Date of Issue: December 1998
 Client:

The Government of the Hong Kong
 Special Administrative Region
 Highways Department
 Major Works Project Management Office

Mott Connell Ltd.
 Consulting Engineers
 Mott Connell Ltd.
 Mott Connell Road Bldg.
 Hong Kong
 Project:

Tel No. 2828 5157
 Fax No. 2827 1823
 Investigation Assignment for Widening of
 Tolo Highway / Fanning Highway between
 Island House Interchange and Fanning



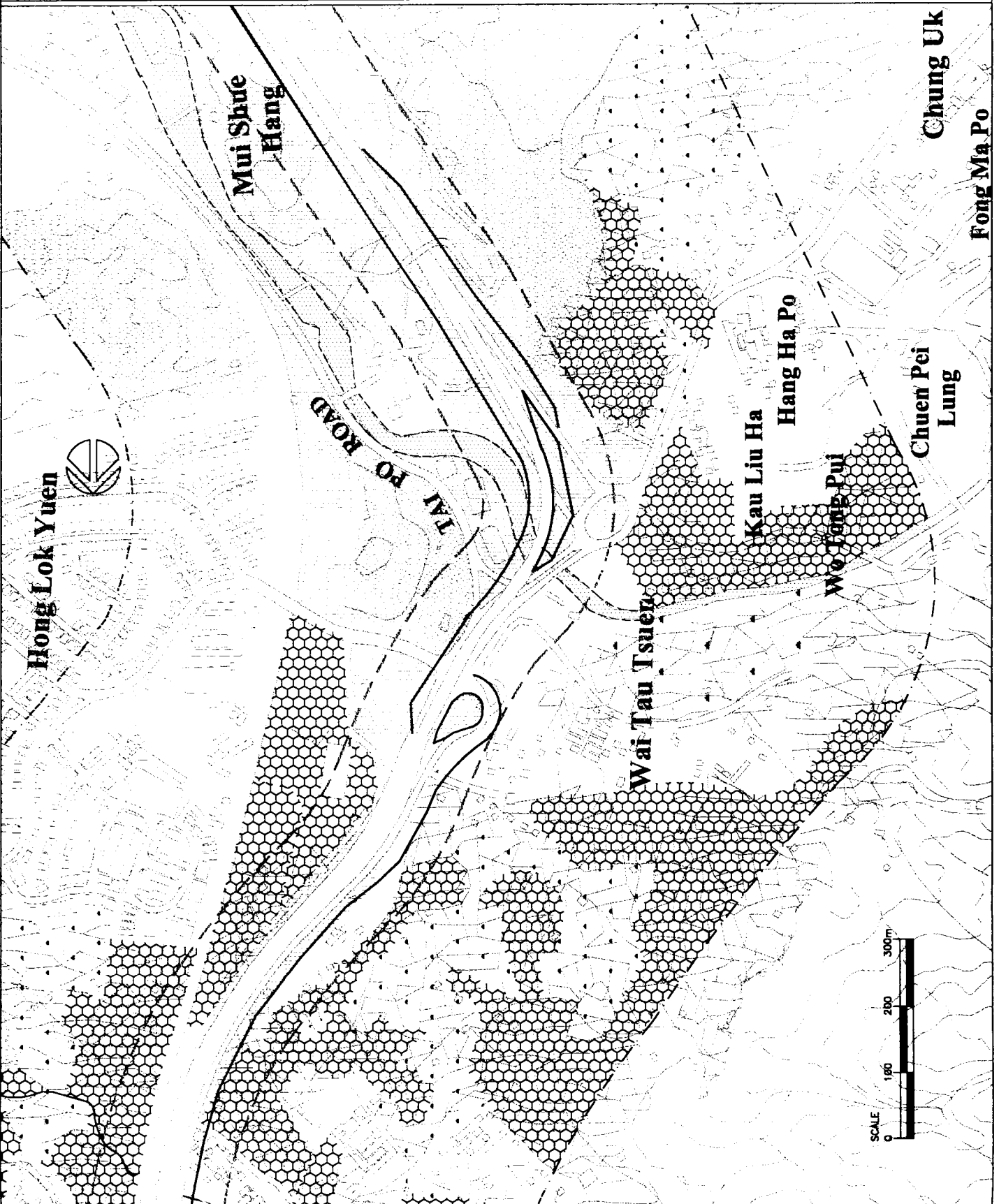
Area 2
 The Impacted Habitat

Scale	Not To Scale
Contract No. / Unit	
Figure No.	8.5.2
Rev	

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LEGEND :

---	100m STUDY BOUNDARY
---	500m STUDY BOUNDARY
---	IMPACTED AREA
---	TERRESTRIAL HABITAT
---	PLANTATION WOODLAND
---	NATURAL WOODLAND
---	ACTIVE AGRICULTURAL LAND
---	INACTIVE AGRICULTURAL LAND
---	BUILDING / VILLAGE / URBANISED AREA
---	FRESHWATER HABITAT
---	ARTIFICIAL DRAINAGE CHANNEL
---	RIVER
---	STREAM



Rev	Date	By	Description	Design	Checked	Appr'd
Drawn	Enyee HK Limited		Date	August 1998		
Approved	For M.C.L.		Date of Issue	December 1998		
Client	The Government of the Hong Kong Special Administrative Region Highways Department Major Works Project Management Office					
Consulting Engineer	Mott Connell Ltd.					
40/F, Hopwood Centre	Tel No.		2828 9757			
188 Queen's Road East, Hong Kong	Fax No.		2827 1823			
Project	Investigation Assignment for Widening of Tolo Highway / Fanning Highway between Island House Interchange and Fanning					

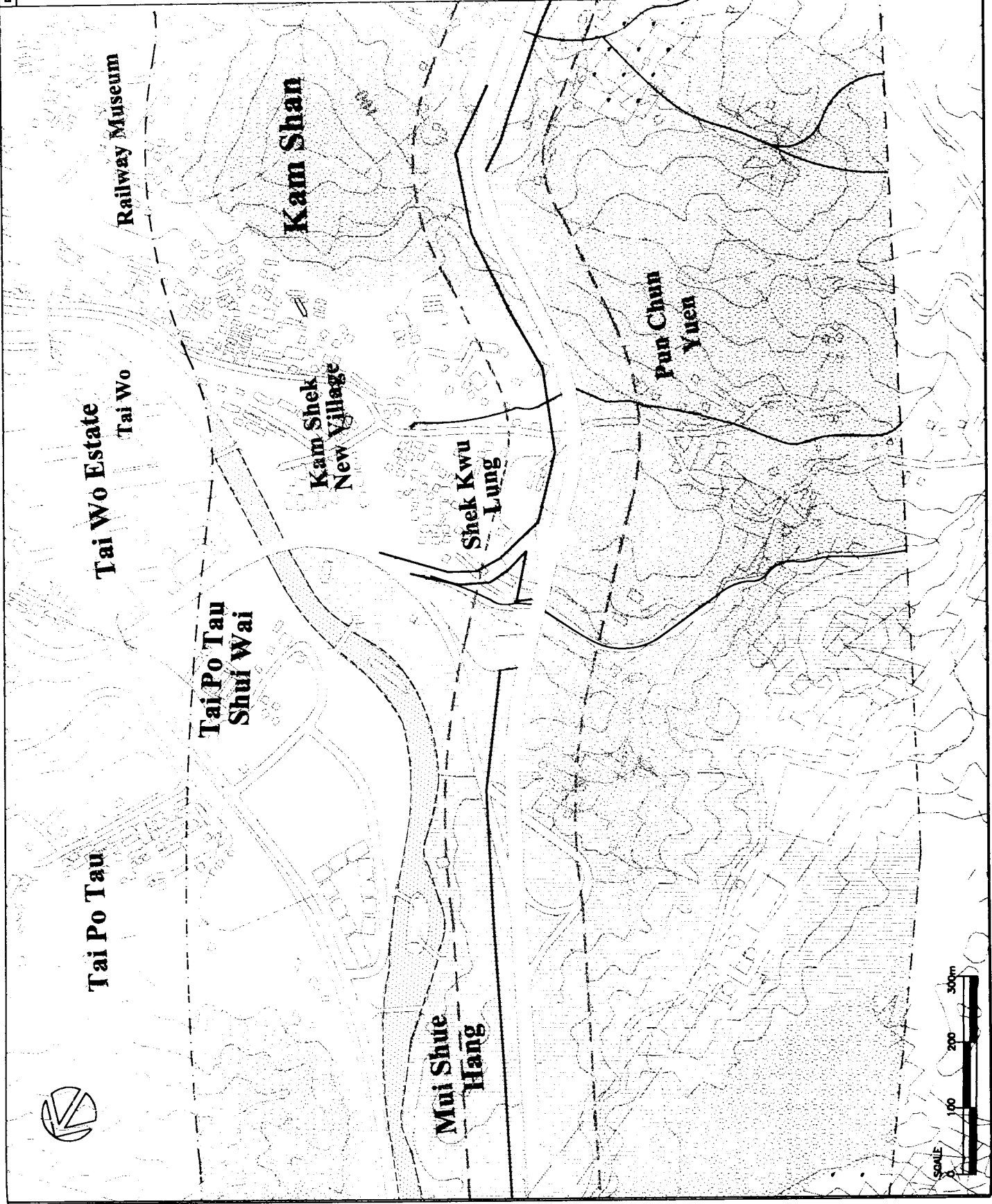
Area 3
The Impacted Habitat

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Scale Not To Scale
Contract No. / Unit
Figure No. 8.5.3
Rev

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LEGEND :

---	100m STUDY BOUNDARY
---	500m STUDY BOUNDARY
---	IMPACTED AREA
---	TERRESTRIAL HABITAT
---	PLANTATION WOODLAND
---	NATURAL WOODLAND
---	FUNG SHUI WOODLAND
---	INACTIVE AGRICULTURAL LAND
---	BUILDING / VILLAGE / UNBUILT AREA
---	FRESHWATER HABITAT
---	ARTIFICIAL DRAINAGE CHANNEL
---	RIVER
---	STREAM



Rev.	Date	By	Description	Checked	Appr'd
01	1998		Issue for M.C.		

Approved: For M.C. Date of Issue: December 1998
 The Government of the Hong Kong Special Administrative Region
 Highways Department
 Major Works Project Management Office

Consulting Engineering
Mott Connell Ltd.
 40/F Hopwood Centre
 183 Queen's Road East
 Hong Kong
 Project
 Investigation Assignment for Widening of Tolo Highway / Fanning Highway between Island House Interchange and Fanning

Tel No. 2828 5757
 Fax No. 2827 1625

Area 4
 The Impacted Habitat

Mott Connell
 Scale: Not To Scale
 Contract No. / Lot: /
 Figure No. 8.5.4
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 Date: 1998

LEGEND :

- 100m STUDY BOUNDARY
- 500m STUDY BOUNDARY
- IMPACTED AREA
- TRANSITIONAL HABITAT
- PLANTATION WOODLAND
- NATURAL WOODLAND
- PINE SHAL WOODLAND
- GRASSLAND
- ACTIVE AGRICULTURAL LAND
- INACTIVE AGRICULTURAL LAND
- BUILDING / WILAGE / URBANISED AREA
- ORCHARD
- RESERVED HABITAT
- ARTIFICIAL DRAINAGE CHANNEL
- RIVER
- STREAM

Rev.	Des.	Dim.	Description	App.	Chk.	App'd
Designat.	Date:	Date: August 1999		Checked:		
Drawn:	Entered HK Limited:	Date: August 1999		Checked:		
Approved:	For A/C/L:	Date of Issue: December 1999		Client:		

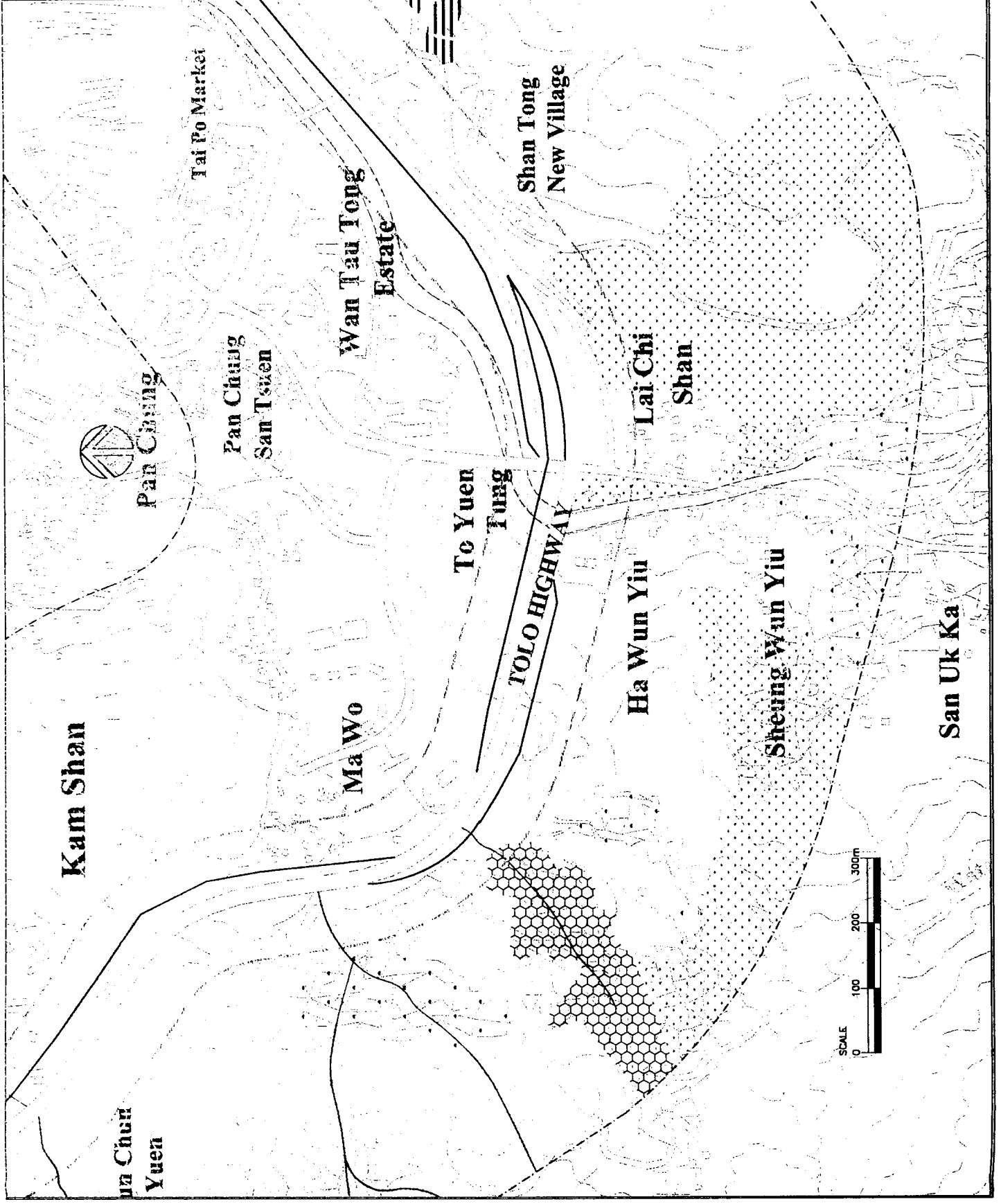
The Government of the Hong Kong Special Administrative Region
Highways Department
Major Works Project Management Office

Mott Connell Ltd.
Consulting Engineering
40/F Hopewell Centre
183 Queen's Road East,
Hong Kong
Tel No. 2828 5757
Fax No. 2827 1823

Project: Investigation Assignment for Widening of Tolo Highway / Fanning Highway between Island House Interchange and Fanning

Scale: Not To Scale
Contract No. 7/Unit
Figure No. 8.5.5

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LEGEND :

- 100m STUDY BOUNDARY
- 500m STUDY BOUNDARY
- IMPERVIOUS AREA
- INDUSTRIAL WAREHOUSE
- PLANTATION WOODLAND
- NATURAL WOODLAND
- PURM SHAI WOODLAND
- CRABLAND
- ACTIVE AGRICULTURAL LAND
- INACTIVE AGRICULTURAL LAND
- ORCHARD
- BUILDING / VILLAGE / TEMPLED AREA
- POND
- EXISTENTIAL AGRICULTURAL DRAINAGE CHANNEL
- RIVER
- STREAM
- ROAD
- RAILWAY
- WATERWAY
- SEA

Rev.	Date	Description	By	Checked	App'd

Checked: _____
 Drawn: Edwin HK Loh (Date: August 1999) Checked: _____
 Approved: _____ For A.C.L. (Date of Issue: December 1999)

The Government of the Hong Kong Special Administrative Region
 Highways Department
 Major Works Project Management Office

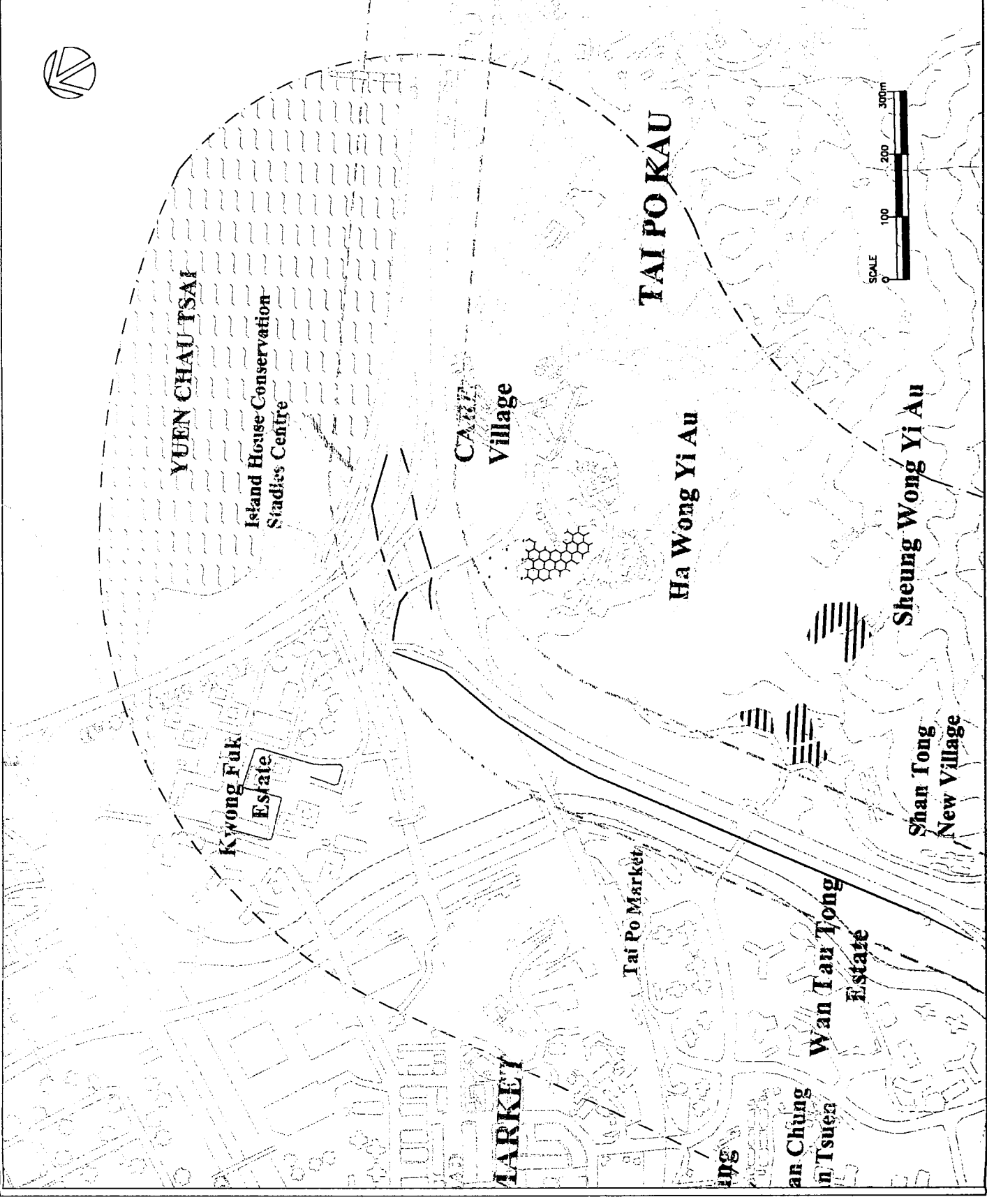
Consulting Engineering
MOTT CORNELL Ltd.
 40/F Hopewell Centre
 118 Queen's Road East
 Hong Kong
 Project: Investigation Assignment for Widening of Tolo Highway / Fanning Highway between Island House Interchange and Fanning

Tel No. 2528 5757
 Fax No. 2527 1823

Area 6
The Impacted Habitat

Scale: Not To Scale
 Contract No. / Unit
 Figure No.
 Rev. B.5.6

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Legend

S1

Pun Chun Yuen Stream

S2

Shek Kwu Lung Stream

S3

Lam Tsuen River

S4

Tai Wo Stream

S5

Kau Lung Hang Stream

Date	By	Description
1999
2000
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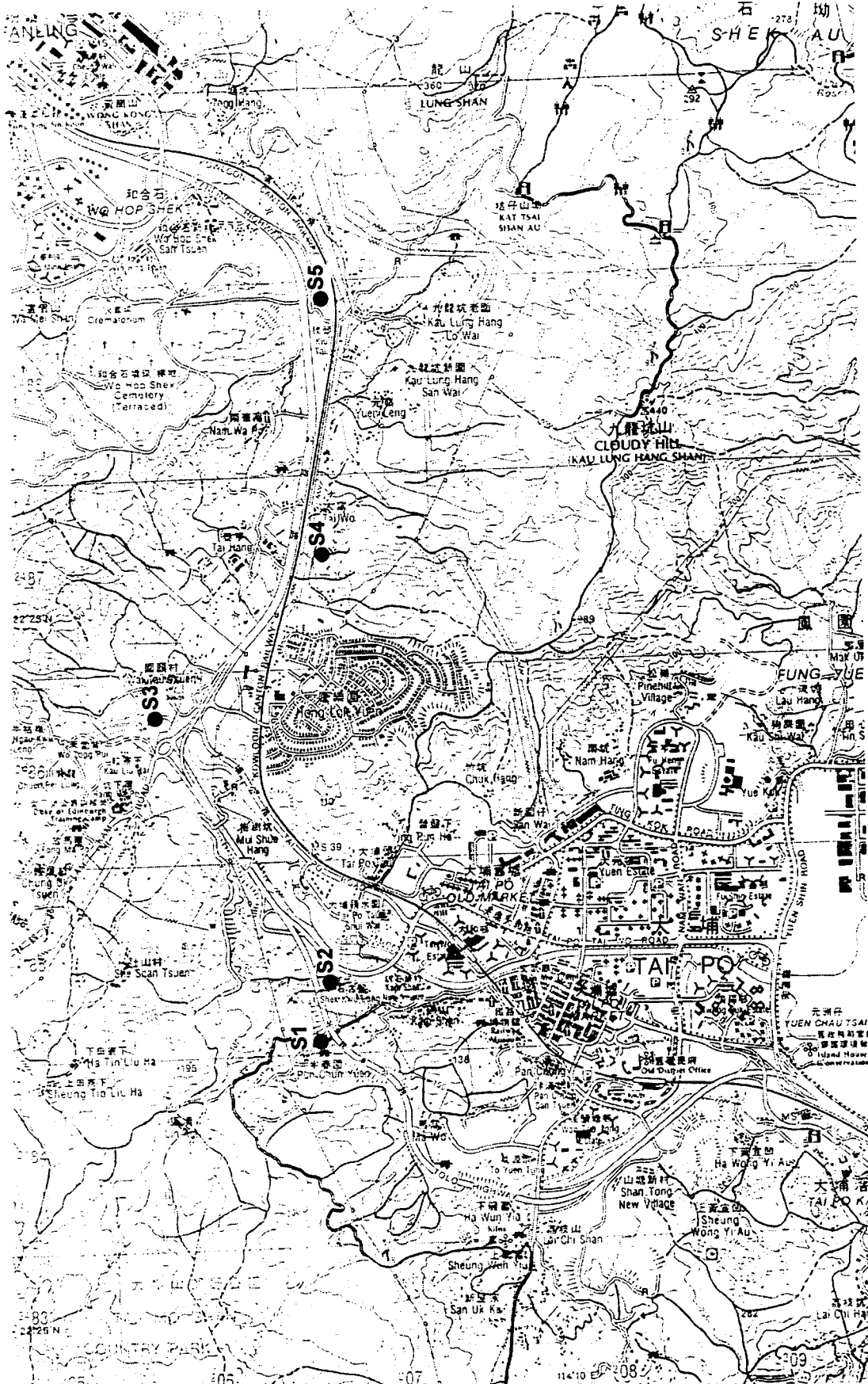
The Government of the Hong Kong
Special Administrative Region
Highways Department
Major Works Project Management Office

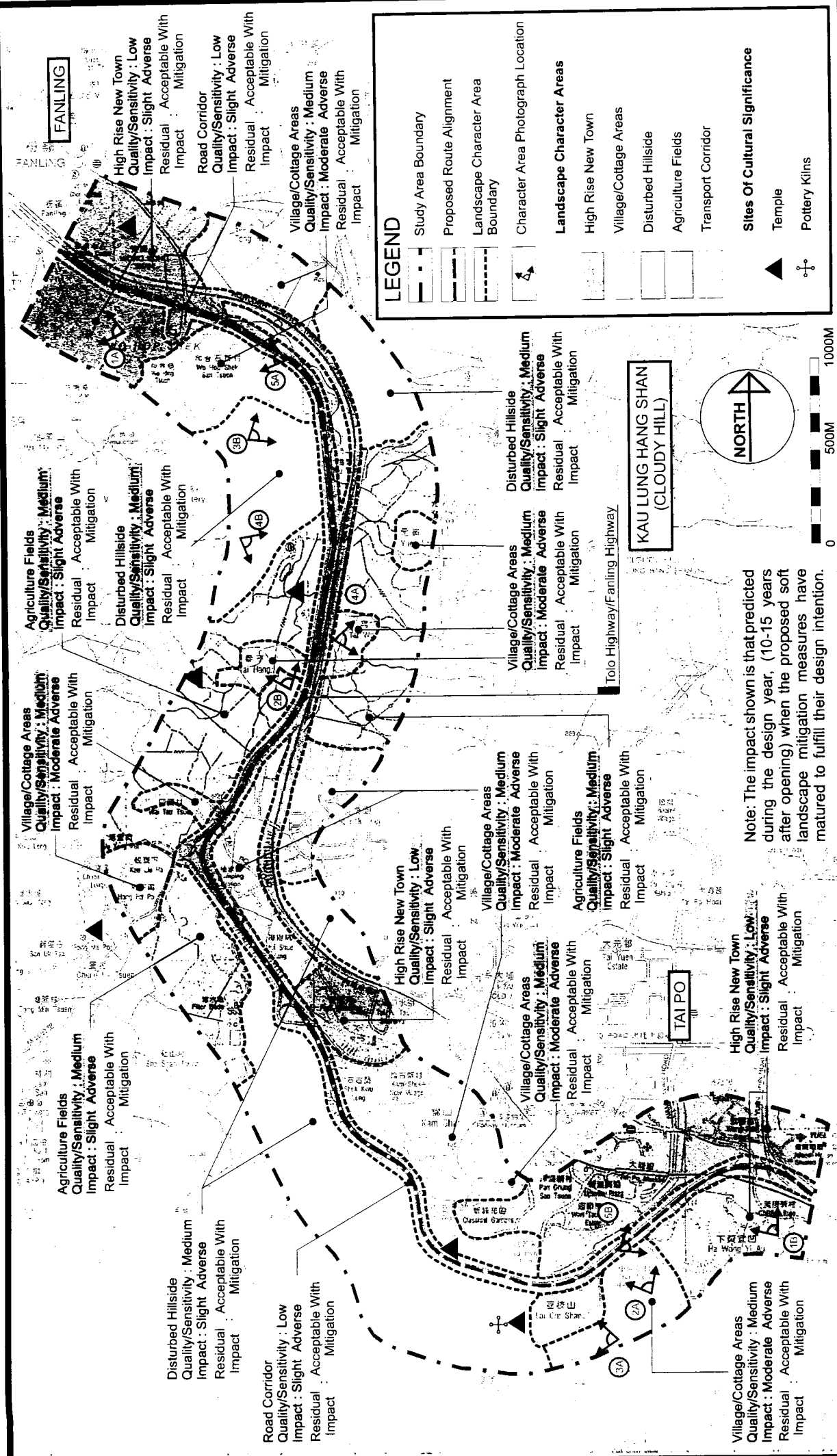
Mott Connell Ltd.
Consulting Engineering
40/F Hopwood Centre
183 Queen's Road East,
Hong Kong
Tel No: 2838 5757
Fax No: 2827 1823

Project:
Investigation Assignment for Widening of
Tolo Highway / Fanning Highway between
Island House Interchange and Fanning

Water Course
Sampling Locations

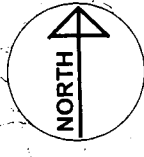
Scale: NTS
Contract No: / Unit
Drawing No: 8.6
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LEGEND

- Study Area Boundary
- Proposed Route Alignment
- Landscape Character Area Boundary
- Character Area Photograph Location
- Landscape Character Areas
- High Rise New Town
- Village/Cottage Areas
- Disturbed Hillside
- Agriculture Fields
- Transport Corridor
- Sites Of Cultural Significance
- Temple
- Pottery Kilns



**KAU LUNG HANG SHAN
(CLOUDY HILL)**

Note: The impact shown is that predicted during the design year, (10-15 years after opening) when the proposed soft landscape mitigation measures have matured to fulfill their design intention.

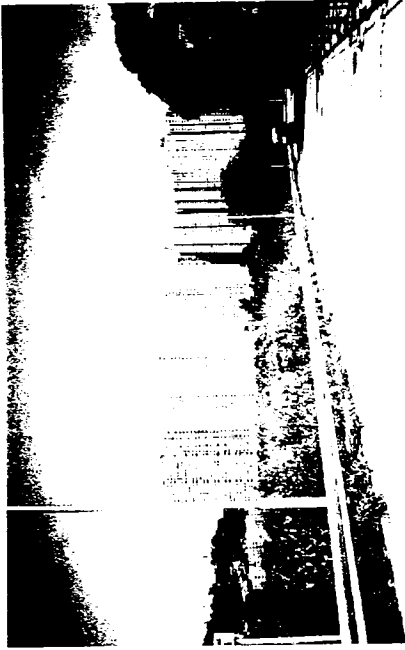
Project Investigation Assignment for Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling	Title Landscape Character And Quality Assessment			
	Sketch number Figure 9.1	Rev.	Date Aug 99	Scale
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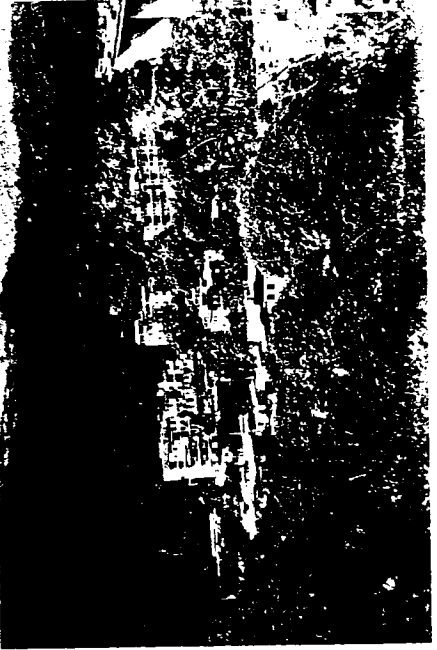
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1. High Rise New Town
(A. View from Wo Hop Shek looking north towards Fanling)



1. High Rise New Town
(B. View from Shan Tong looking north towards Tai Po)



2. Village/Cottage Areas
(A. View from Shan Tong looking west towards Lai Chi Shan)



2. Village/Cottage Areas
(B. View from footbridge adjacent to Tai Hang looking north west towards Wo Hop Shek)



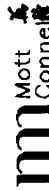
3. Disturbed Hillside
(A. View from Shan Tong looking west towards Tai Mo Shan)



3. Disturbed Hillside
(B. View from Wo Hop Shek looking east towards Lung Shan)

Project	Investigation Assignment for Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling	
Title	Landscape Character Photographs	

Sketch No.	Figure 9.2a		
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4. Agricultural fields
(A. View from KCR Line looking east towards Kau Lung Hang Shan)



5. Transport Corridor
(A. View from footbridge adjacent to Wo Hop Shek San Tsuen looking northwest towards Fanling)



4. Agricultural Fields
(B. View from Wo Hop Shek looking south east towards Hong Lok Yuen)



5. Transport Corridor
(B. View from Tolo Highway looking east towards Tai Po)

Project

Investigation Assignment for Widening of
Tolo Highway / Fanling Highway between
Island House Interchange and Fanling

Title

Landscape Character Photographs

Sketch No.

Figure 9.2b

Date
Nov 99

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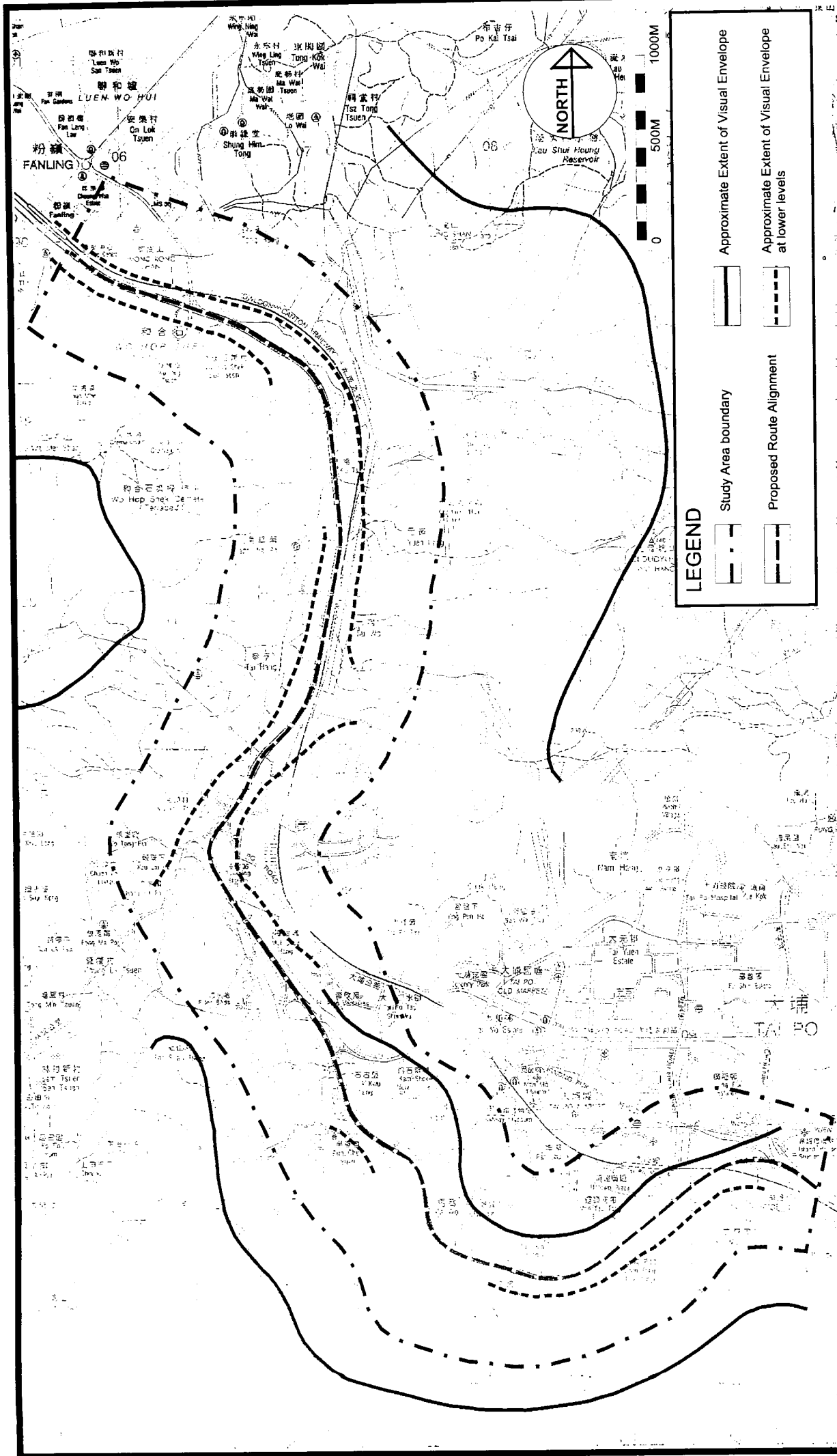
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LEGEND

- Study Area boundary
- Proposed Route Alignment
- Approximate Extent of Visual Envelope
- Approximate Extent of Visual Envelope at lower levels

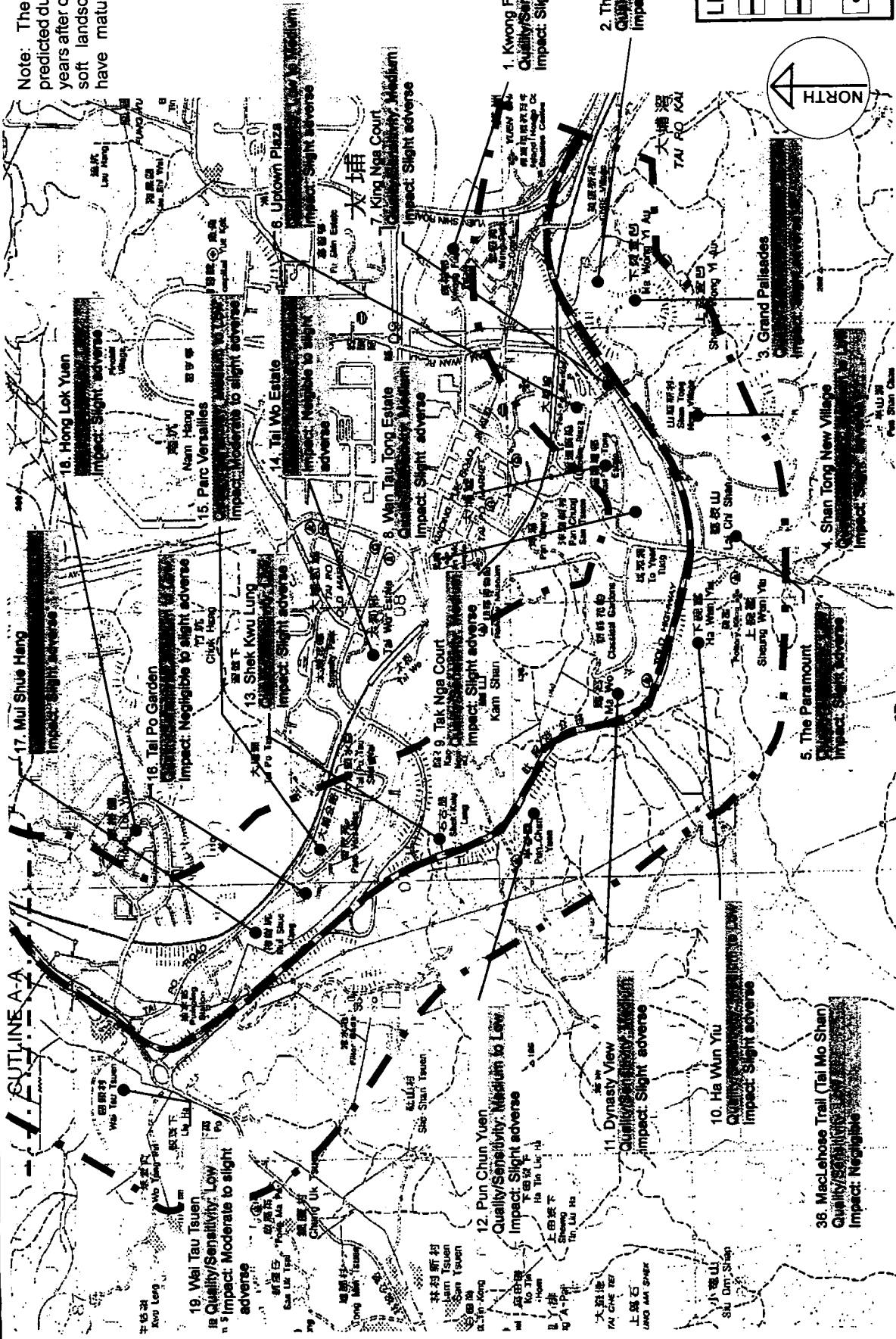
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Title
 Visual Envelope

Project
 Investigation Assignment for Widening of
 Tolo Highway / Fanning Highway between
 Island House Interchange and Fanning

Note: The impact shown is that predicted during the design year, (10-15 years after opening) when the proposed soft landscape mitigation measures have matured to fulfill their design



Project:
Investigation Assignment for Widening of Tolo Highway / Fanning Highway between Island House Interchange and Fanning

Title:
Visual Impact Assessment

Figure No.:
Fig 9.4a

Date:
Nov 99

Scale:
CAD File

Rev.:

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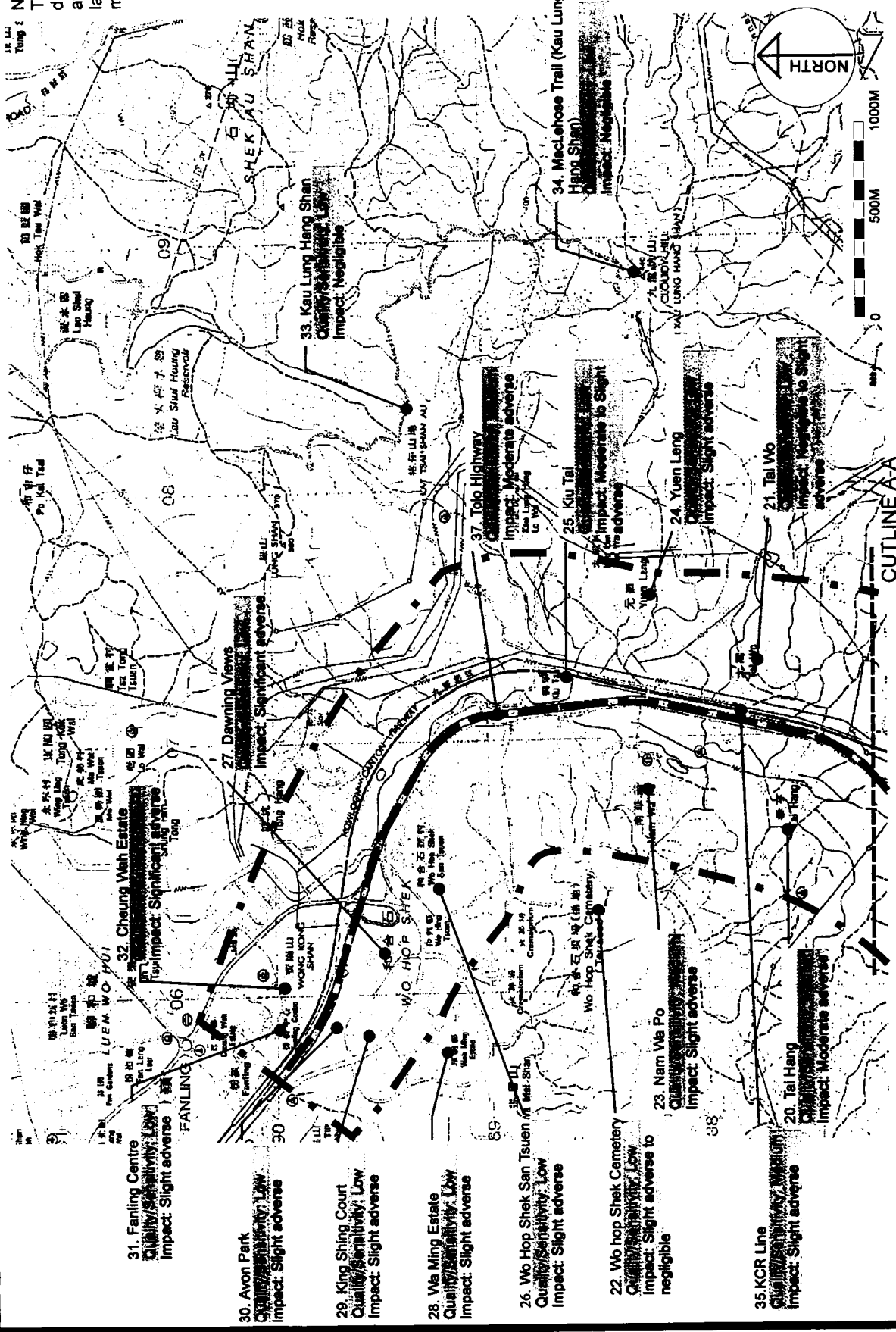
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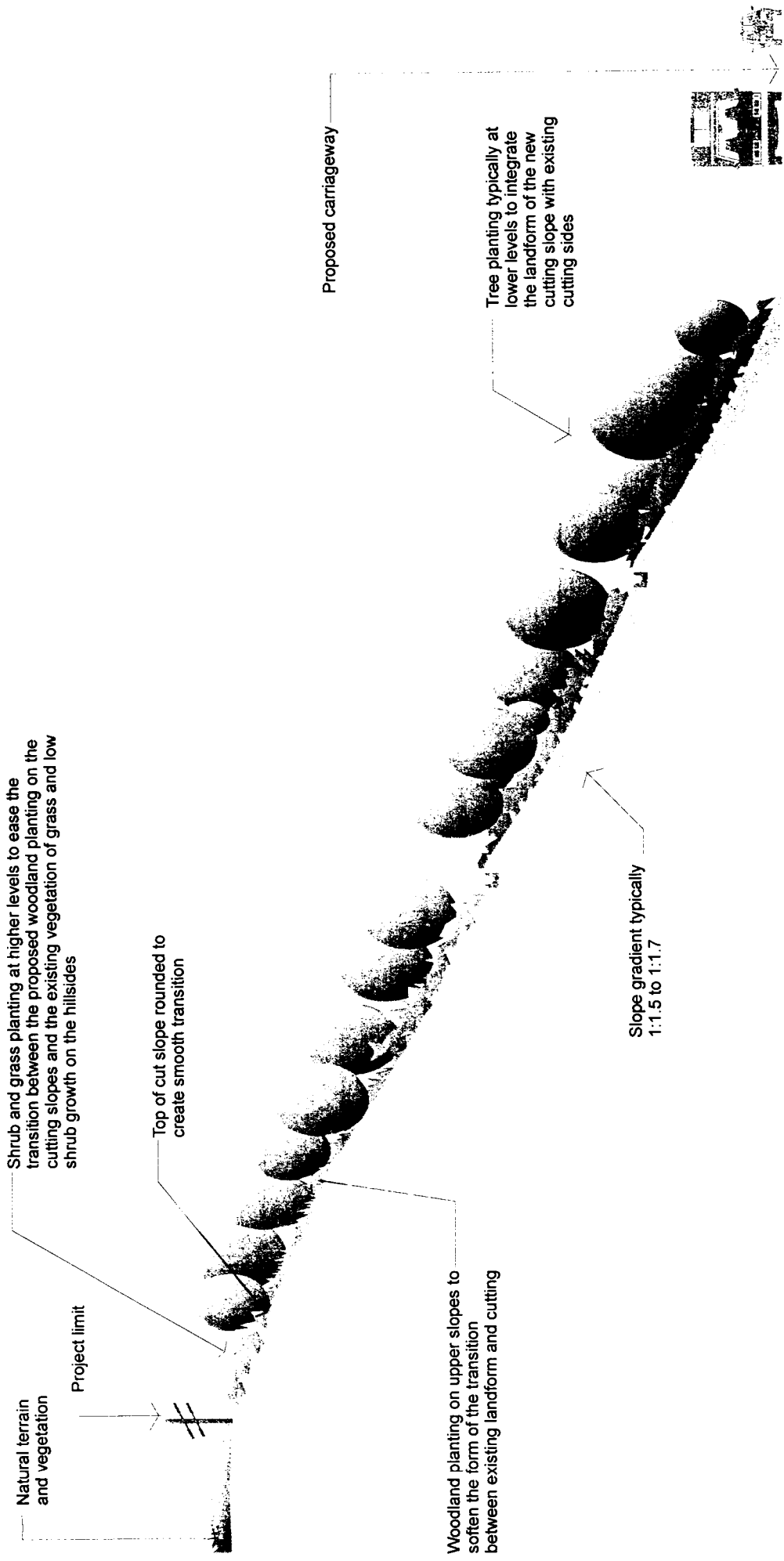
Note:
The impact shown is that predicted during the design year, (10-15 years after opening) when the proposed soft landscape mitigation measures have matured to fulfill their design intention.



Project: Investigation Assignment for Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling		Title: Visual Impact Assessment		Figure No.: Fig 9.4b		Rev.:	
Rev.:		Date: Nov 99		Drawn:		Scale:	
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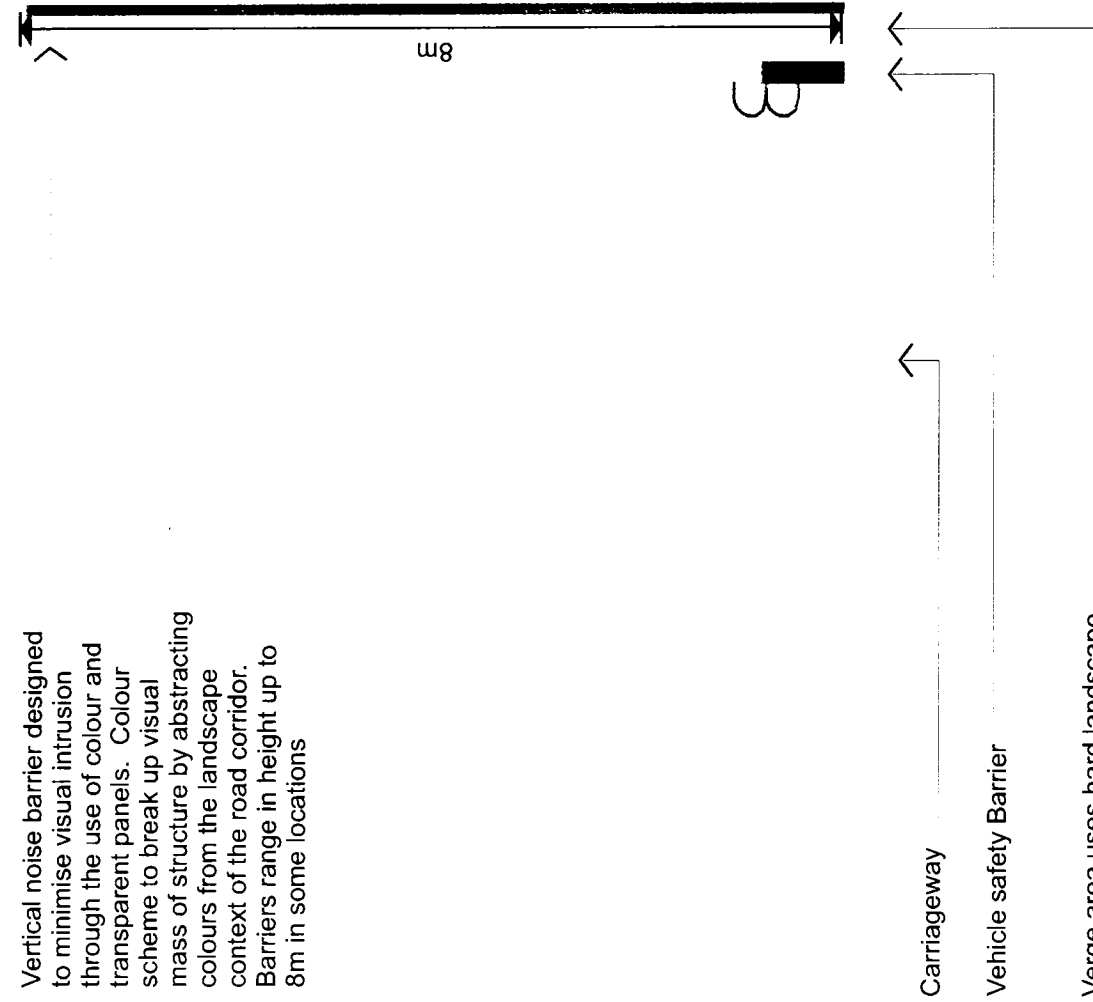
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Investigation Assignment for Widening
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between
Island House Interchange and Fanling

Title
Typical Details
Planting Structure in Cuttings

Sketch No.		Rev.	
Fig 9.6a			
Date	Drawn	Checked	Approved
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Vertical noise barrier designed to minimise visual intrusion through the use of colour and transparent panels. Colour scheme to break up visual mass of structure by abstracting colours from the landscape context of the road corridor. Barriers range in height up to 8m in some locations



Shrub planting to soften the form of the proposed embankment slopes and provide screening at ground level

Tree planting using taller growing species to visually break up the horizontal emphasis of the proposed noise barrier

Project Limit

Slope gradient typically 1:1.5 to 1:1.7

No planting against base of barrier to allow regular inspection and maintenance

8m

B

Carriageway

Vehicle safety Barrier

Verge area uses hard landscape treatment to reduce maintenance commitment

Project:
Investigation Assignment for Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling

Title
Typical Details
Planting Structure on Embankment

Sketch No.

Fig 9.6b

Date
Nov 99

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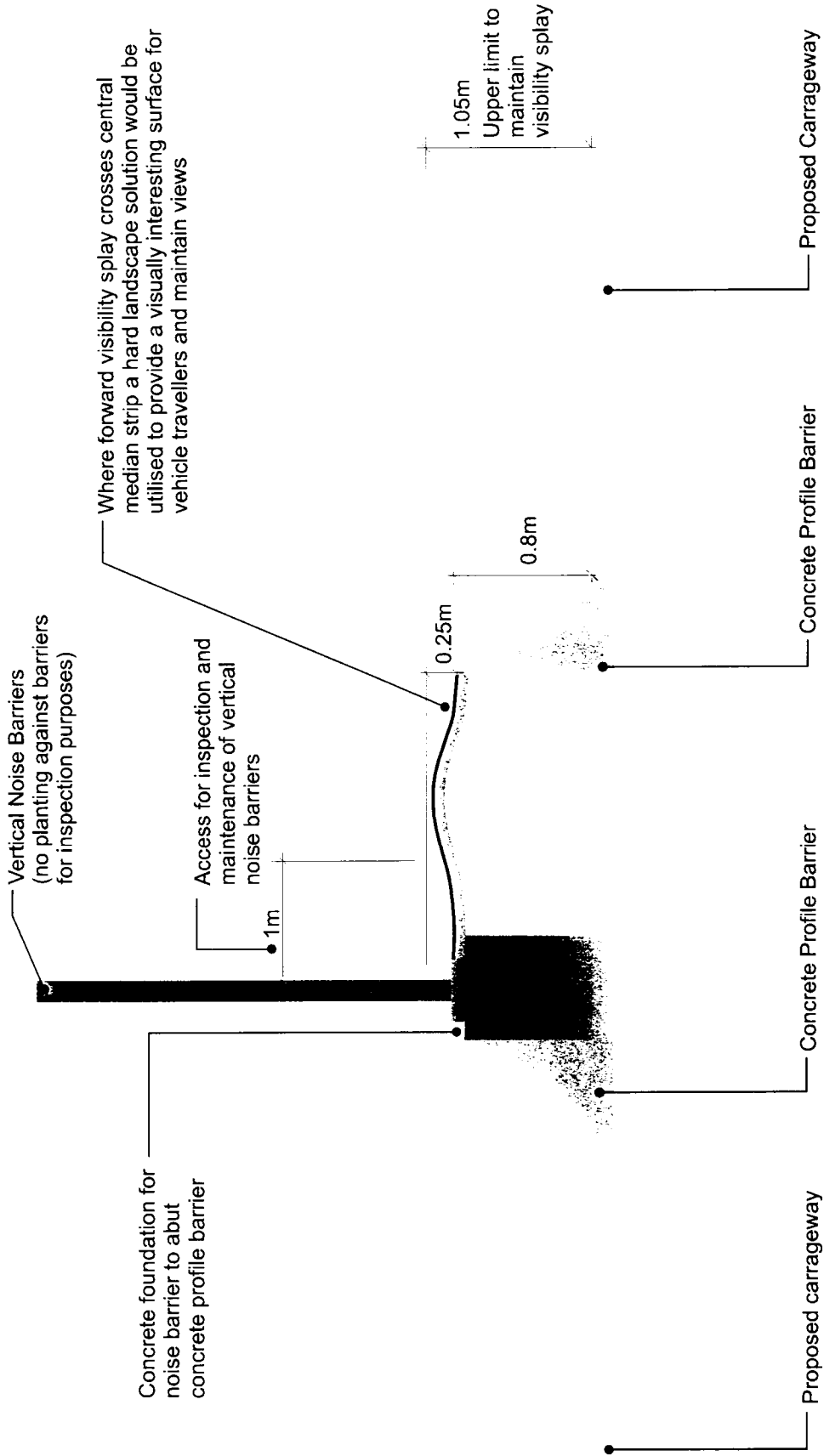
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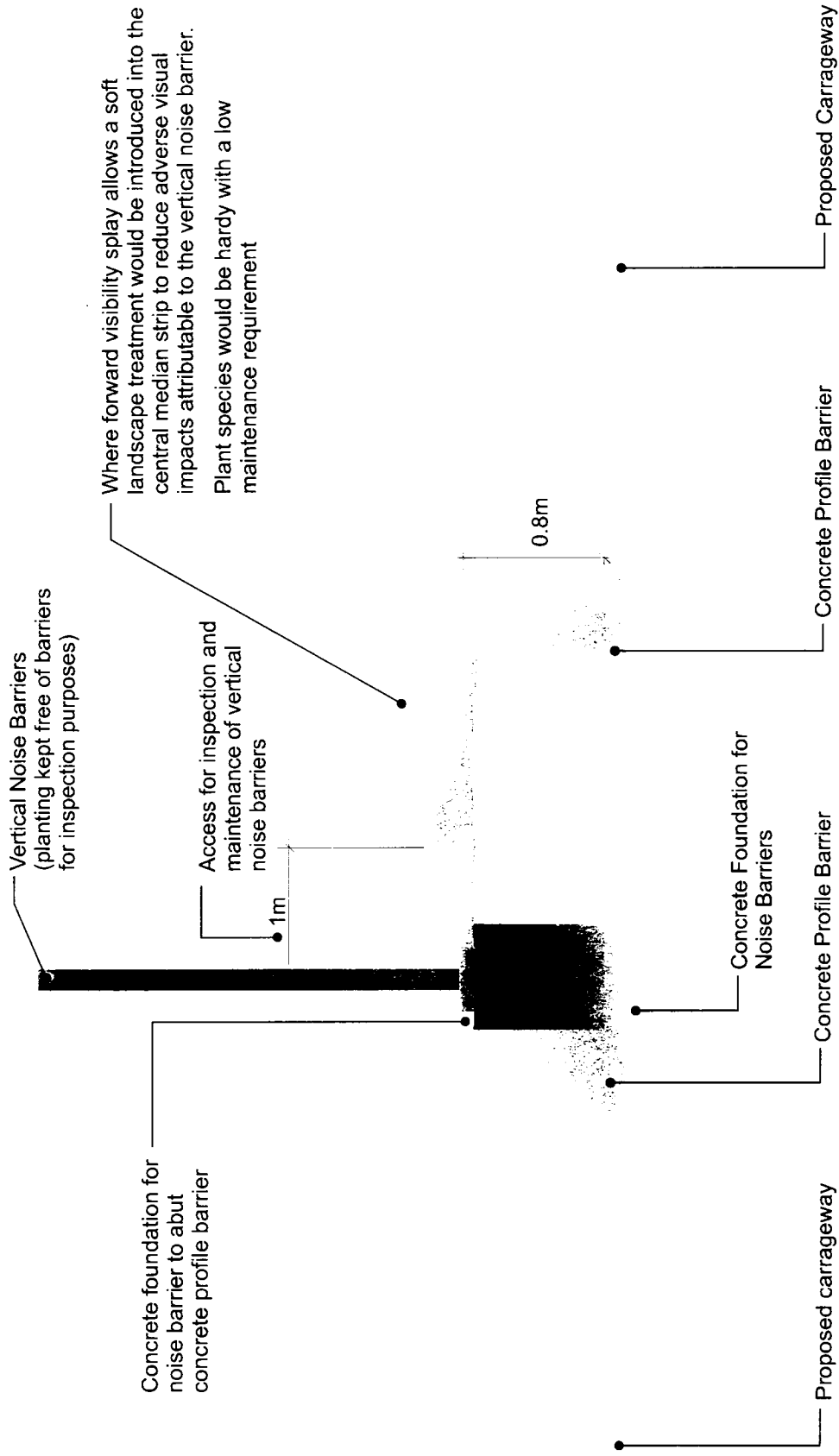


Project:
Investigation Assignment for Widening
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Tolo Highway / Fanling Highway
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Island House Interchange and Fanling

Title
Typical Details
Concrete Median Strip (without planting)

Sketch No . Fig 9.6c		Rev.	
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Project:
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Tolo Highway / Fanling Highway
between
Island House Interchange and Fanling

Title
Typical Details
Concrete Median Strip (with planting)

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Fig 9.6d			
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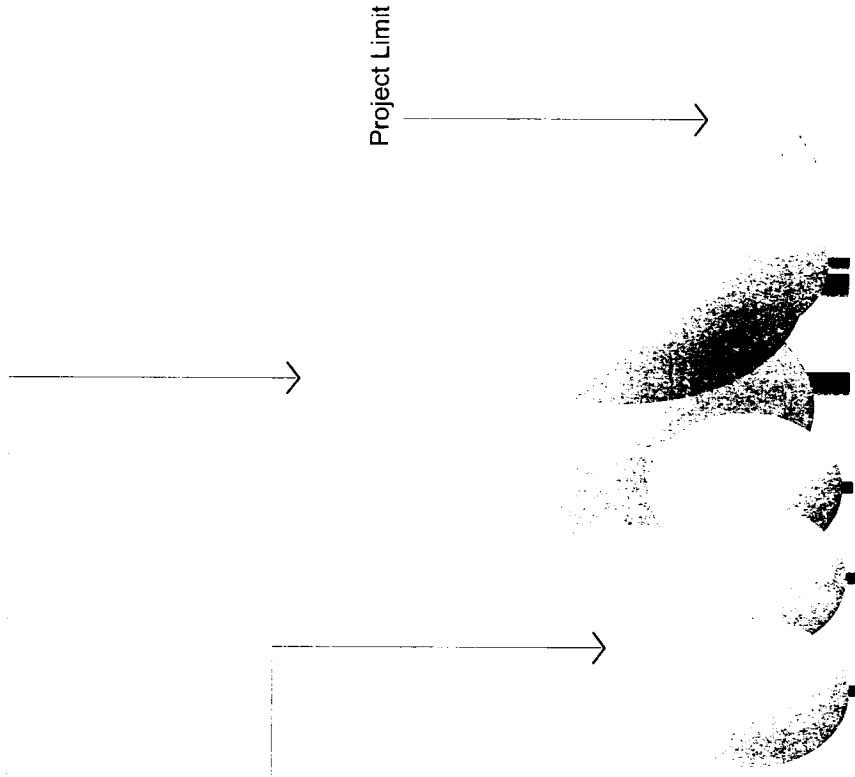
Tree planting to screen views of the highway and reduce visual intrusion caused by vehicular activity

Shrub planting to provide screening at ground level

Proposed Verge Area
(3m wide)

Carriageway

Project Limit



Project:

Investigation Assignment for Widening of Tolo Highway / Fanning Highway between Island House Interchange and Fanning

Title
Typical Details
Planting Structure of Grade

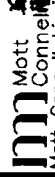
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Fig 9.6e

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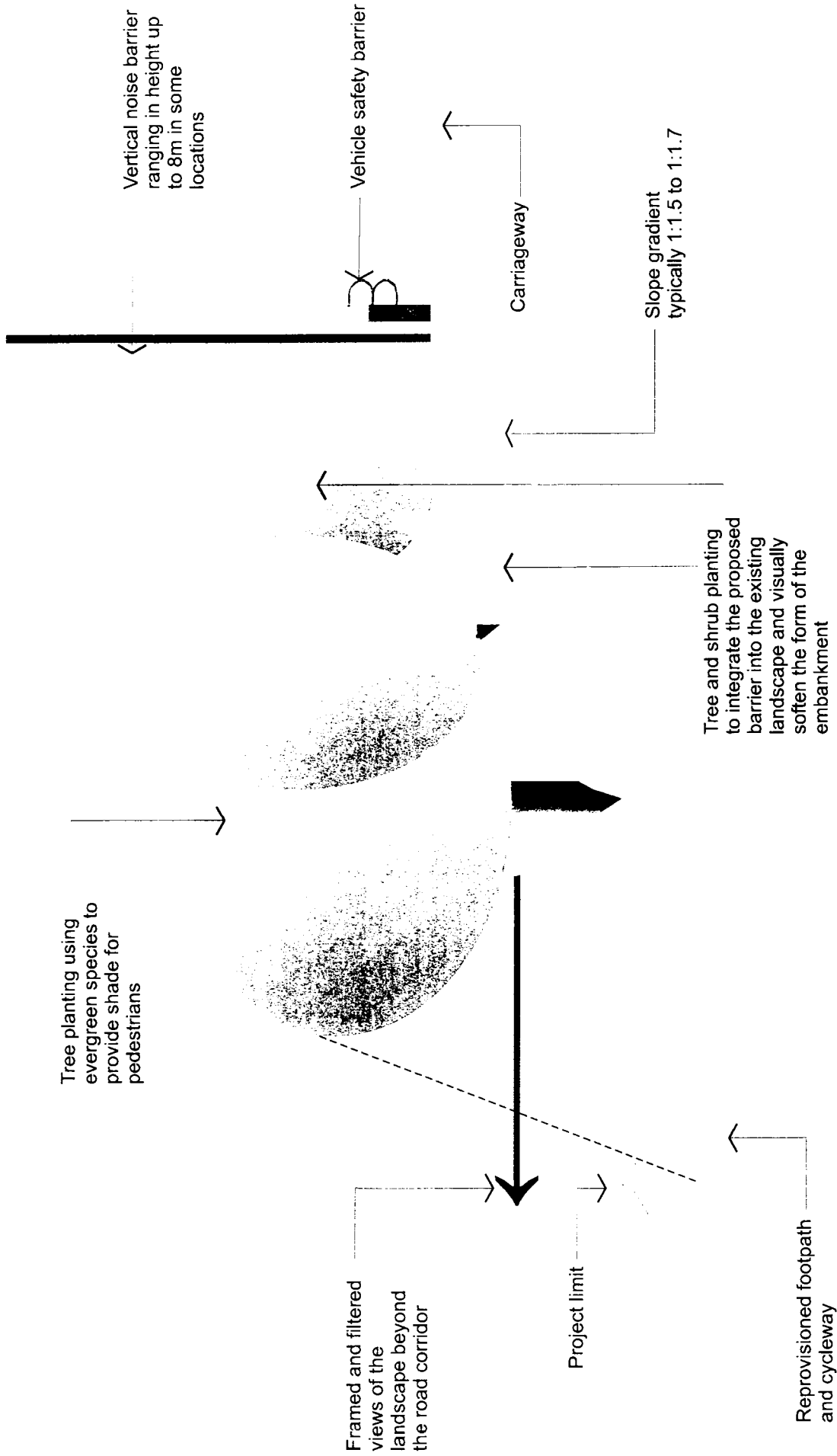
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Title
Typical Details
Planting Structure on Embankment with
Reprovisioned Footpath/Cycleway

Sketch No .		Rev.	
Fig 9.6f			
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CAD File :		Scale	

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Proposed vertical noise barrier fixed to top of retaining wall

Concrete retaining wall shaped to produce concrete profile barrier

Tolo Highway Carriageway

Concrete retaining wall textured pattern using a vertical emphasis to reduce the apparent visual mass of the structure

Slip road carriageway

Vertical safety barrier

Climbing plants established at the base of the retaining wall to visually soften the form of the structure

Planting bed created at the base of the retaining wall

Project

Investigation Assignment for Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling

Title

Typical Details
Section through Retaining Wall
showing Use of Climbing Plants

Sketch No.

Figure 9.6g

Rev.

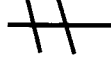
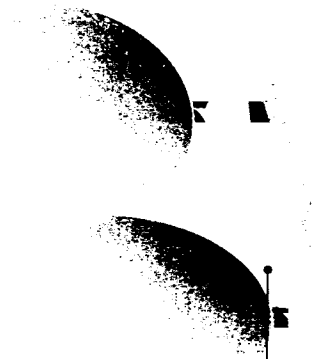
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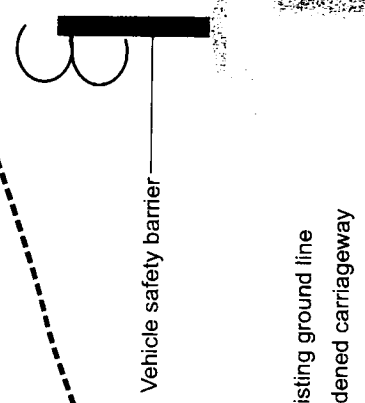
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Project Limit

Tree and shrub planting using native species to visually integrated the form of the original cutting slope into the existing landscape framework

Climbing plants trailing over surface of retaining wall to visually soften the form of structure and reduce its apparent visual mass



Concrete retaining wall, textured pattern on front elevation using a vertical emphasis to reduce the apparent visual mass of the structure. Wall graded in height at ends to avoid visually intrusive abrupt wall ends

Project

Investigation Assignment for Widening of Tolo Highway / Fanning Highway between Island House Interchange and Fanning

Title

Typical Details
Typical Section showing Retaining Wall in cutting

Sketch No.

Figure 9.6h

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Climbing plants allowed to trail over the edge of gabion structure

Combination of plantings with upright and trailing habits to soften the engineered form of gabions. Plants must be tolerant of draught conditions.

Allow topsoil to become mixed with top layer of stones in the gabion basket as shown.

Where the filling material allows, the facing stones should be coursed to create a stone wall effect.

Shrub planting to visually screen bottom layers of gabions

Vehicle safety barrier

Carriageway

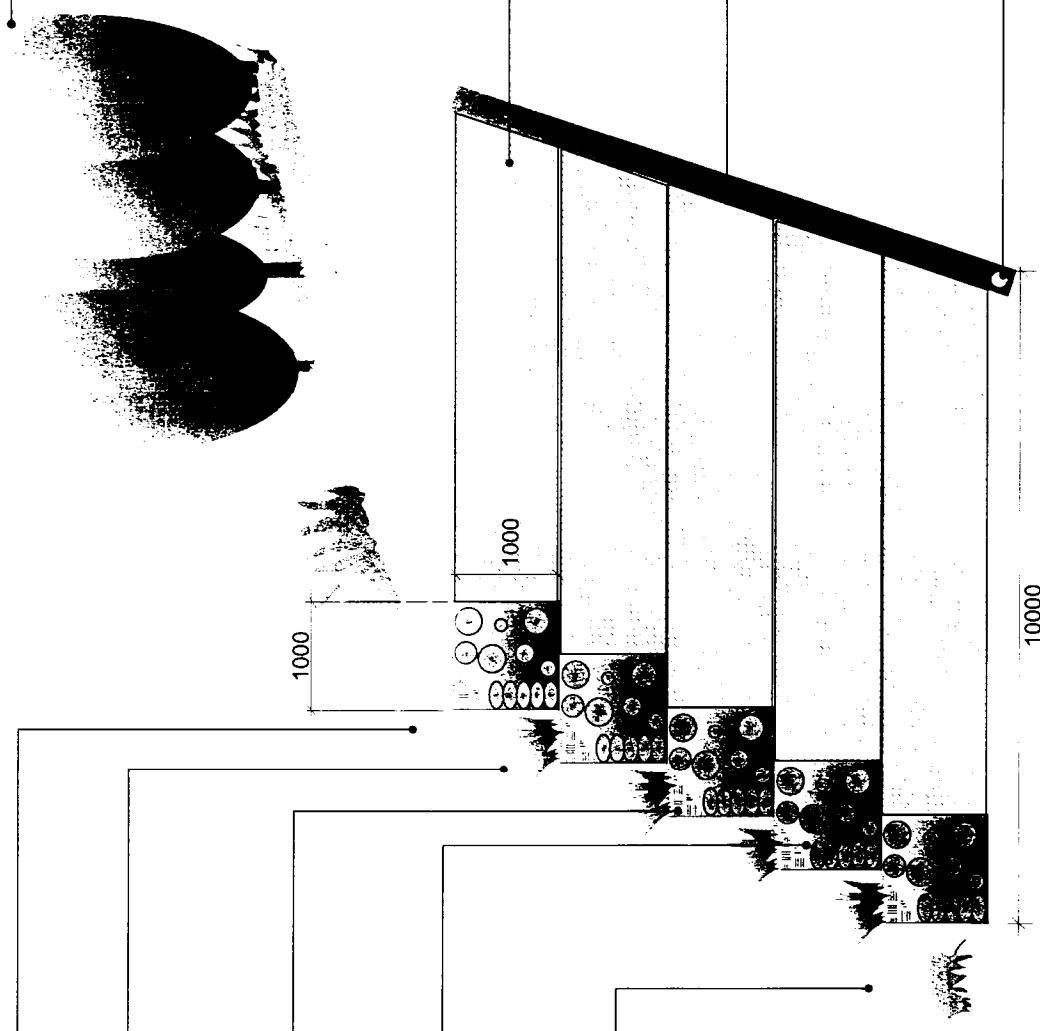
New tree and shrub planting integrate the form cutting into the existing landscape

Project Limit

Terramesh element

500mm drainage layer

Pipe



Project

Investigation Assignment for Widening of Tolo Highway / Fanning Highway between Island House Interchange and Fanning

Title

Typical Details
Typical Section of Terramesh Gabion Embankment

Sketch No.

Figure 9.6i

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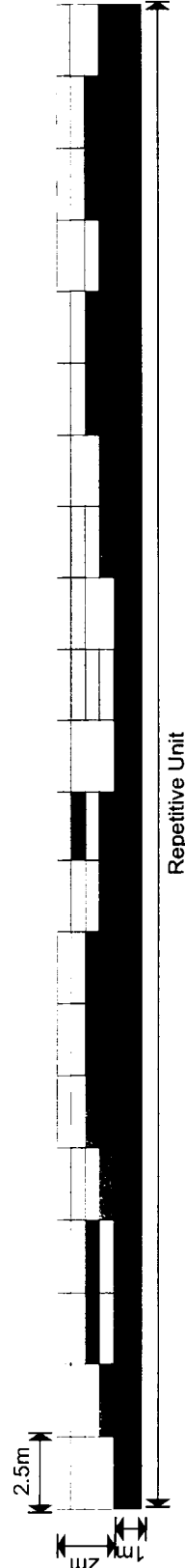
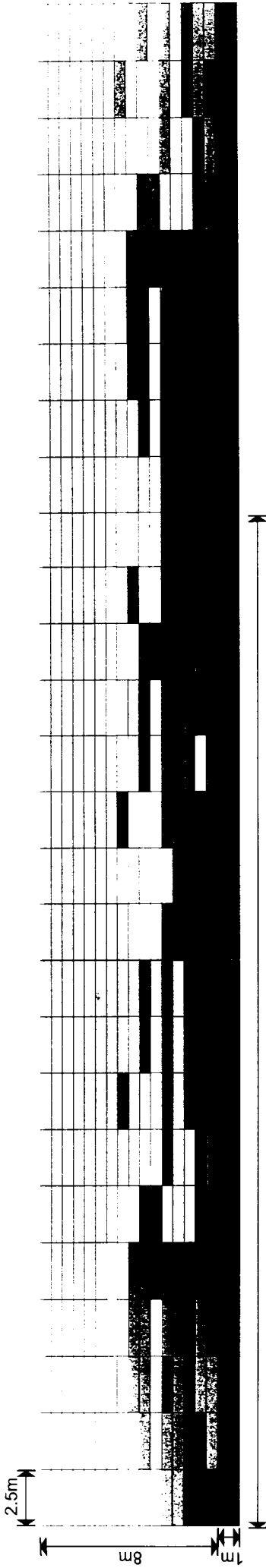
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PERSPEX COLOUR

Type	Colour	Colour Sample
A	Clear	
B	Light green	
C	Middle green	
D	Dark green	
E	Light brown	
F	Dark brown	

Road Profile Barrier

Project	Investigation Assignment for Widening of Tolo Highway / Fanning Highway between Island House Interchange and Fanning		Sketch No. Figure 9.6J		Rev.
	Title Typical Details Elevation of the proposed noise barrier showing colour concept		Date Nov 99	Drawn	Checked / Approved
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The use of gabion walls can help minimise disturbance to existing slopes during construction, allows regenerative vegetation growth both on top and the face of the wall and has a more visually pleasing appearance than e.g. shotcrete or concrete, particularly in a rural setting



This gabion wall has been used to minimise the extent of slope filling required to construct the road. The impact to the existing slope is much reduced.



Gabion walls may used for very steep slopes, but still provide opportunity for the establishment of dense vegetation. The use of small stone within the baskets stabilises the slopes whilst allowing soil placement, planting and adequate drainage. Visually, the walls are unobtrusive and in-keeping with the rural setting.



The use of gabion wall in this location has avoided extensive cutting to the existing hillside and has, therefore, minimised the impact to the natural terrain and existing woodland

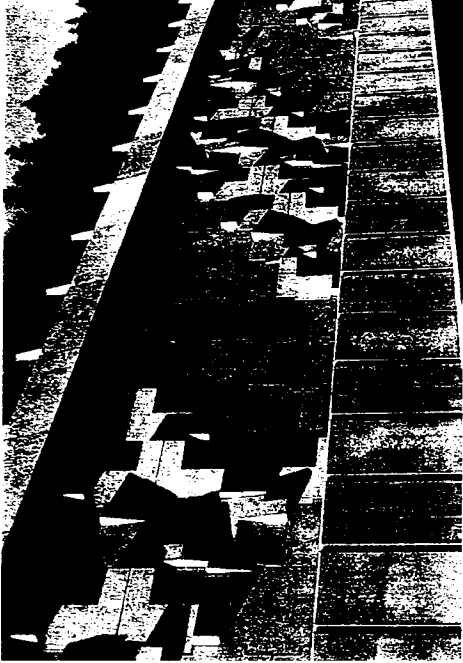
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Title
Typical Details
Examples of Retaining Walls and
Structures

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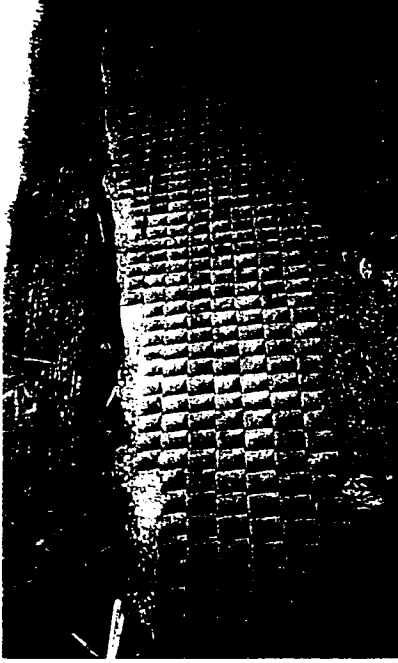
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Re-inforced earth wall with road on top ensuring a consistency to all sections of road



Series of re-inforced earth retaining walls adjacent to road with terracing and curved sculptural finish. Terrace areas may be planted with trees and shrubs.



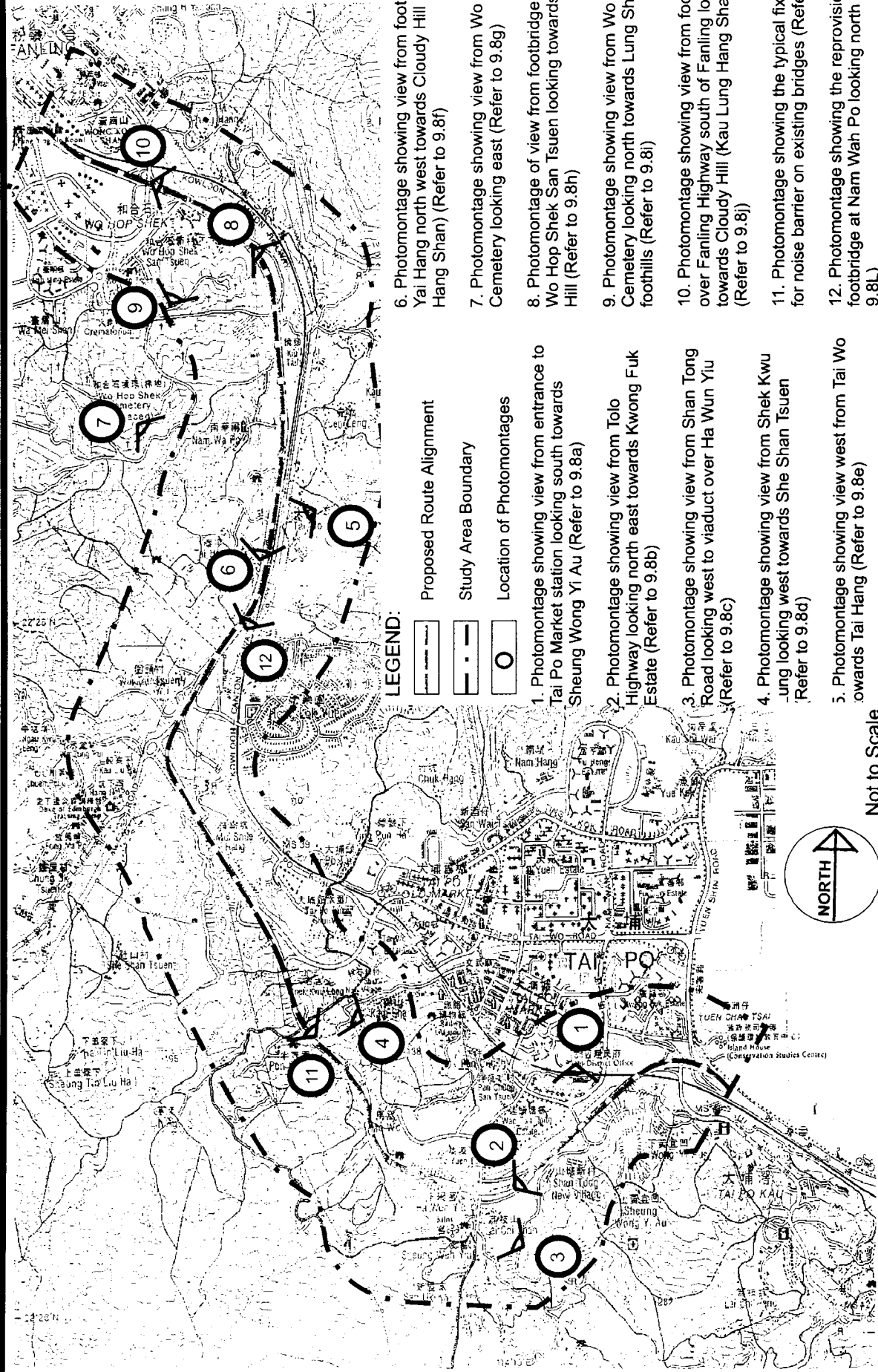
The use of semi-hard facings where steep slopes are required in rural areas would minimise visual impact.

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


Title
Typical Details
Examples of Retaining Walls and
Structures

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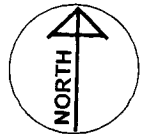


LEGEND:

-  Proposed Route Alignment
-  Study Area Boundary
-  Location of Photomontages

1. Photomontage showing view from entrance to Tai Po Market station looking south towards Sheung Wong Yi Au (Refer to 9.8a)
2. Photomontage showing view from Tolo Highway looking north east towards Kwong Fuk Estate (Refer to 9.8b)
3. Photomontage showing view from Shan Tong Road looking west to viaduct over Ha Wun Yiu (Refer to 9.8c)
4. Photomontage showing view from Shek Kwu -ung looking west towards She Shan Tsuen (Refer to 9.8d)
5. Photomontage showing view west from Tai Wo towards Tai Hang (Refer to 9.8e)

6. Photomontage showing view from footbridge at Yai Hang north west towards Cloudy Hill (Kau Lung Hang Shan) (Refer to 9.8f)
7. Photomontage showing view from Wo Hop Shek Cemetery looking east (Refer to 9.8g)
8. Photomontage of view from footbridge east of Wo Hop Shek San Tsuen looking towards Cloudy Hill (Refer to 9.8h)
9. Photomontage showing view from Wo Hop Shek Cemetery looking north towards Lung Shan foothills (Refer to 9.8i)
10. Photomontage showing view from footbridge over Fanling Highway south of Fanling looking towards Cloudy Hill (Kau Lung Hang Shan) (Refer to 9.8j)
11. Photomontage showing the typical fixing detail for noise barrier on existing bridges (Refer to 9.8k)
12. Photomontage showing the reprovisioned footbridge at Nam Wah Po looking north (Refer to 9.8L)



Not to Scale

Project:
Investigation Assignment for Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling

Title
Photomontage Location Plan

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A. View from entrance to Tai Po Market Station looking south towards Sheung Wong Yi Au (Prior to Highway Widening)



B. View from entrance to Tai Po Market Station looking south towards Sheung Wong Yi Au (During the design year, 10 years after opening)

Project:

Investigation Assignment for Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling

Title

Photomontage showing view from Entrance to Tai Po Market Station looking south towards Sheung Wong Yi Au

Sketch number

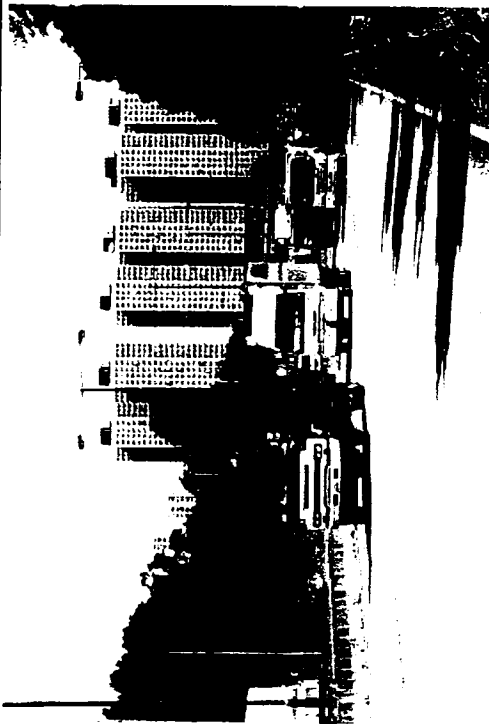
Fig 9.8a

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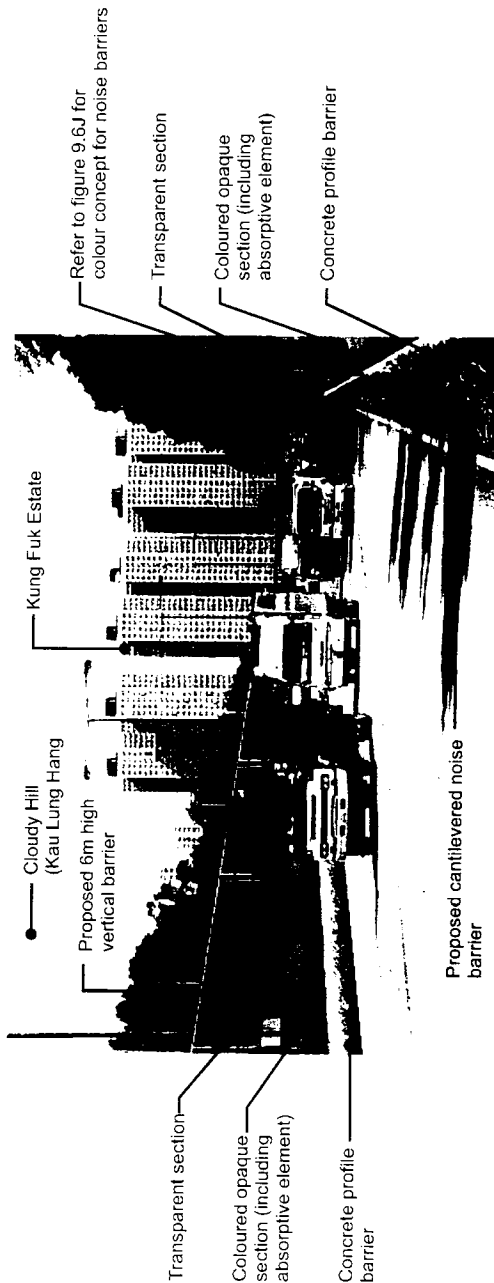
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A. View from Tolo Highway looking northeast towards Kwong Fuk Estate (Prior to Highway Widening)



B. View from Tolo Highway looking northeast towards Kwong Fuk Estate (During the design year, 10 years after opening)

Project:

Investigation Assignment for Widening of Tolo Highway / Fanning Highway between Island House Interchange and Fanning

Title

Photomontage showing view from Tolo Highway looking North east towards Kwong Fuk Estate

Sketch number

Fig 9.8b

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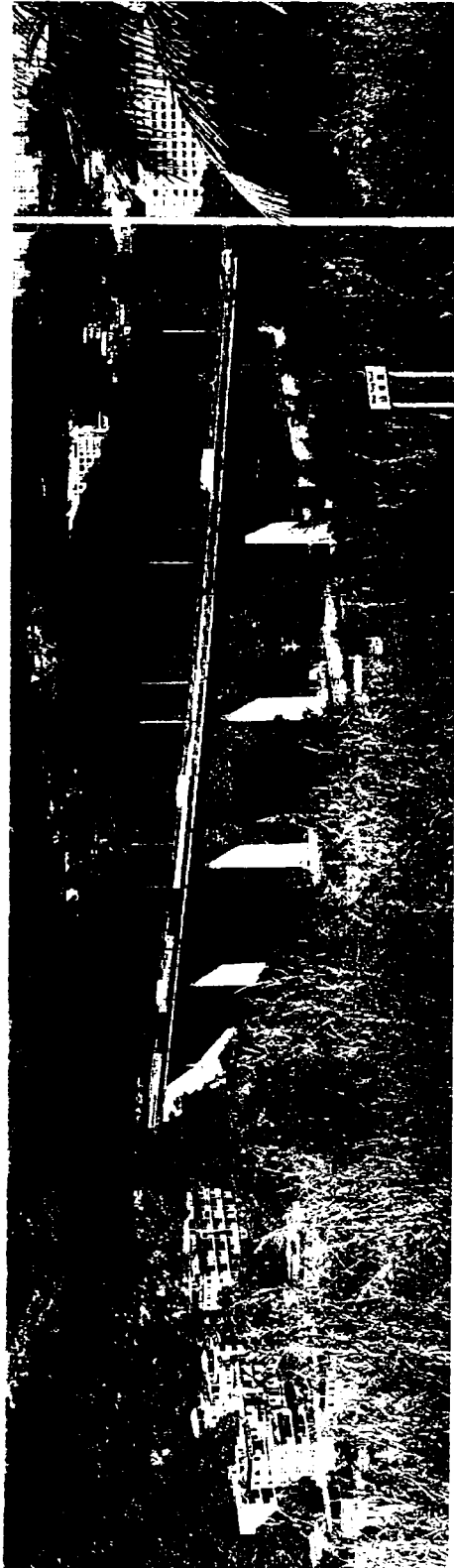
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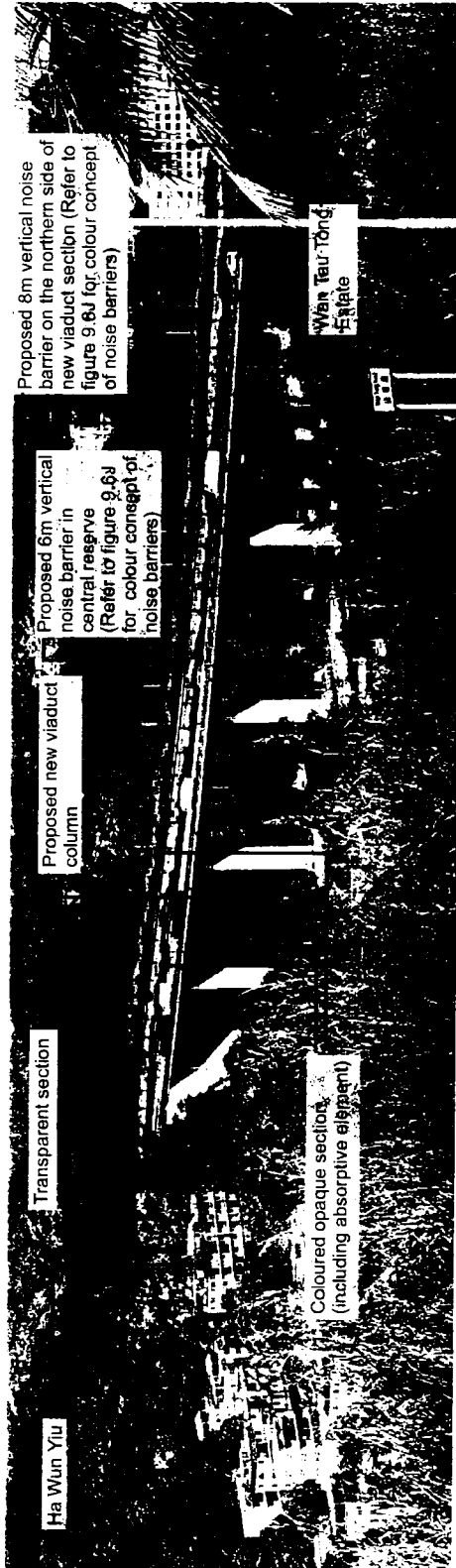
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A. View from Shan Tong Road looking west to Viaduct over Ha Wun Yiu (Prior to Highway Widening)



B. View from Shan Tong Road looking west to Viaduct over Ha Wun Yiu (During the design year, 10 years after opening)

Project:

Investigation Assignment for Widening of
Tolo Highway / Fanling Highway between
Island House Interchange and Fanling

Title

Photomontage showing view from Shan Tong
Road looking west to viaduct over Ha Wun Yiu

Sketch number

Fig9.8c

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Nov 99

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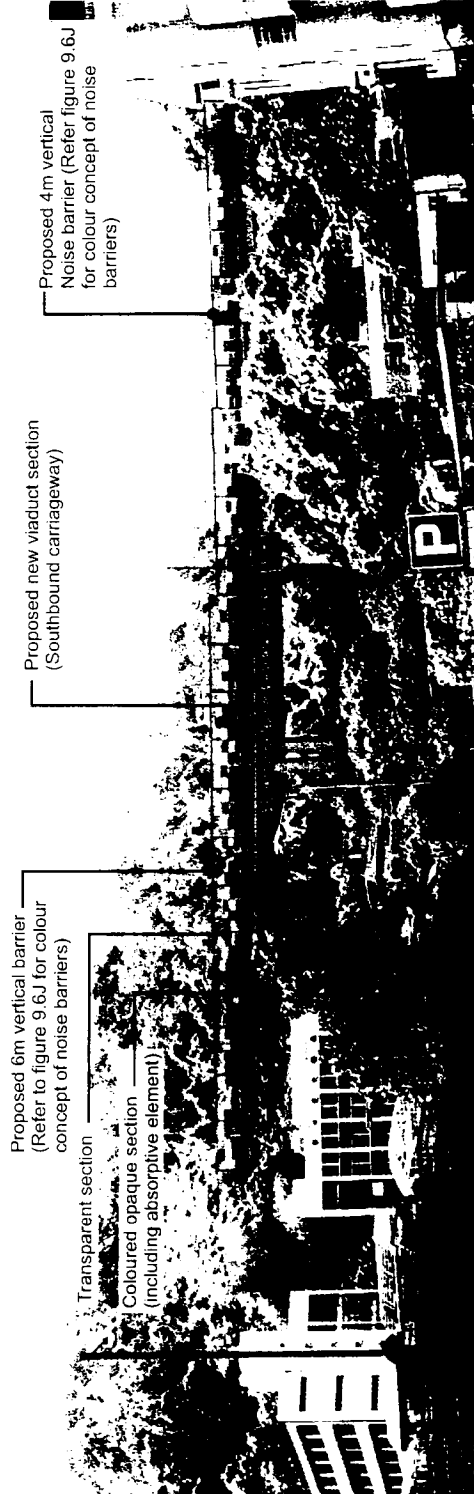
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A. View from Shek Kwu Lung looking west towards She Shan Tsuen (Prior to Highway Widening)



B. View from Shek Kwu Lung looking west towards She Shan Tsuen (During the design year, 10 years after opening)

Project:

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Title

Photomontage showing view from Shek Kwu
Lung looking west towards She Shan Tsuen

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Sketch number
Fig 9.8d

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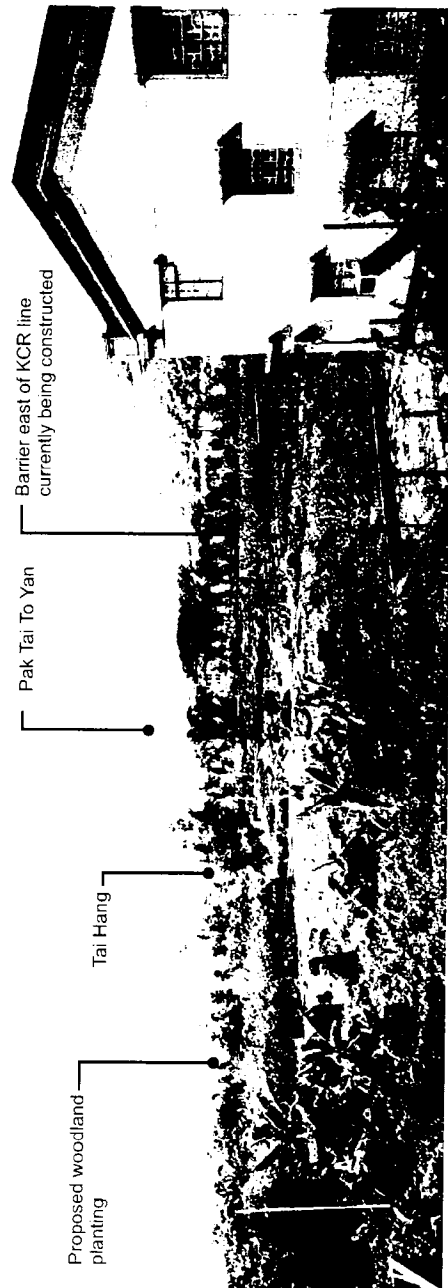
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A. View looking west from Tai Wo towards Tai Hang (Prior to Highway Widening)



B. View looking west from Tai Wo towards Tai Hang (During the design year, 10 years after opening)

Project:

Investigation Assignment for Widening of
Tolo Highway / Fanling Highway between
Island House Interchange and Fanling

Title

Photomontage showing view looking west from
Tai Wo towards Tai Hang

Sketch number
Fig9.8e

Rev.

Date
Nov 99

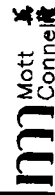
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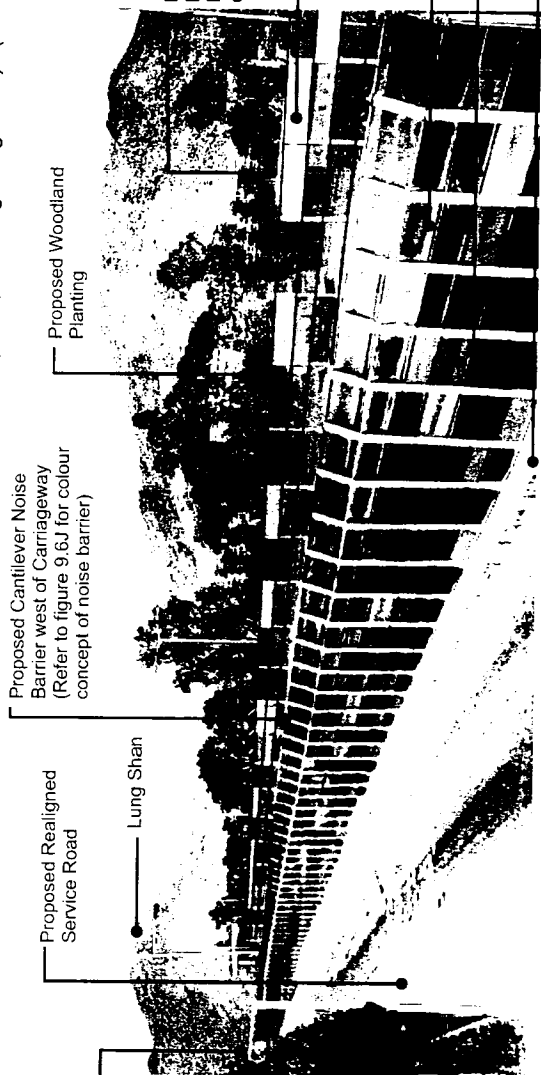


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A. View from Footbridge at Tai Hang Looking Northeast towards Cloudy Hill (Kau Lung Hang Shan) (Prior to Highway Widening)



Proposed Vertical Noise Barrier (Refer to figure 9.6J for colour concept of noise barriers)

Proposed Cantilever Noise Barrier west of Carriageway (Refer to figure 9.6J for colour concept of noise barrier)

Proposed Woodland Planting

Proposed Realigned Service Road

Lung Shan

Proposed 4m Vertical noise barrier (Refer to figure 9.6J for colour concept of noise barriers)

Proposed 4m Barrier in Central reserve. (Refer to figure 9.6J colour concept of noise barriers)

Transparent section
Coloured opaque section (including absorptive element)
Concrete profile barrier

B. View from Footbridge at Tai Hang Looking Northeast towards Cloudy Hill (Kau Lung Hang Shan) (During the design year, 10 years after opening)

Project:
Investigation Assignment for Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling

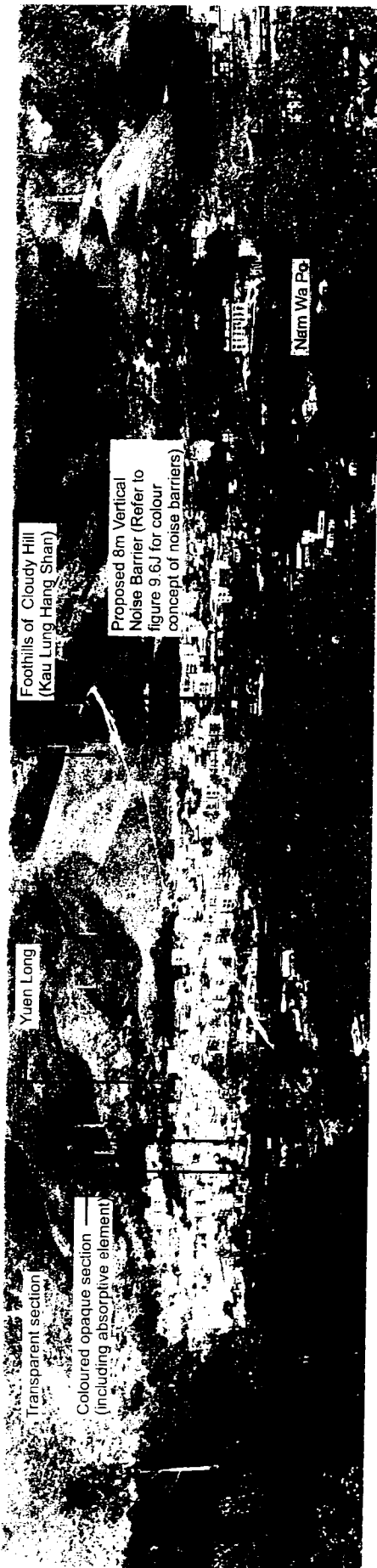
Title
Photomontage showing view from Footbridge at Tai Hang looking northeast towards Cloudy Hill (Kau Lung Hang Shan)

Sketch number		Rev.	
Fig.9.8f			
Date	Drawn	Checked	Approved
Nov 99			
CAD File :		Scale	

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A. View from Wo Hop Shek Cemetery looking East (Prior to Highway Widening)



B. View from Wo Hop Shek Cemetery looking East (During the design year, 10 years after opening)

Project:

Investigation Assignment for Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling

Title

Photomontage showing view from Wo Hop Shek Cemetery looking east

Sketch number
Fig9.8g

Rev.

Date
Nov 99

Drawn

Checked

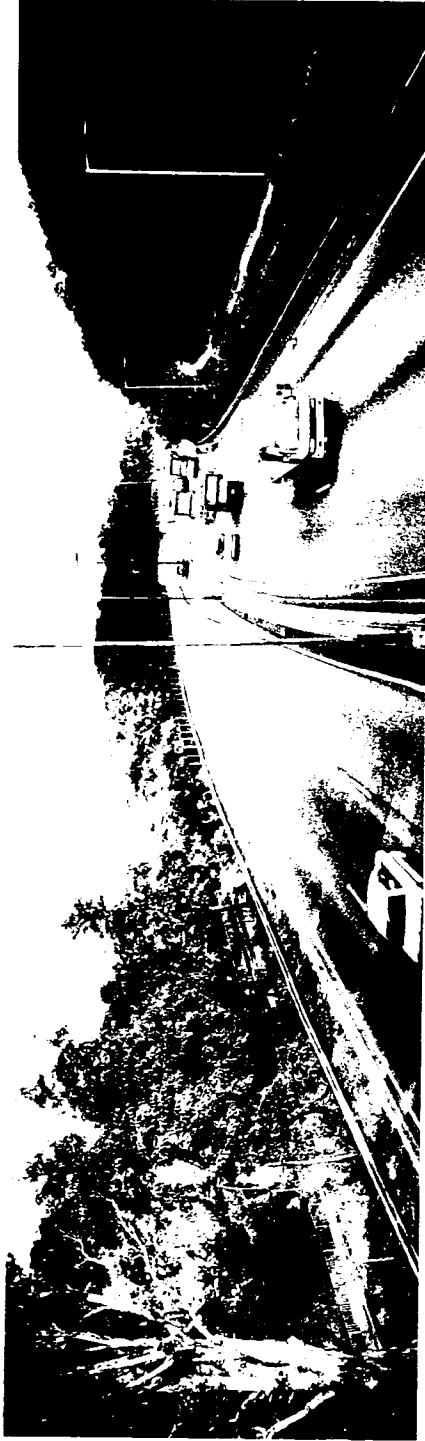
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Scale

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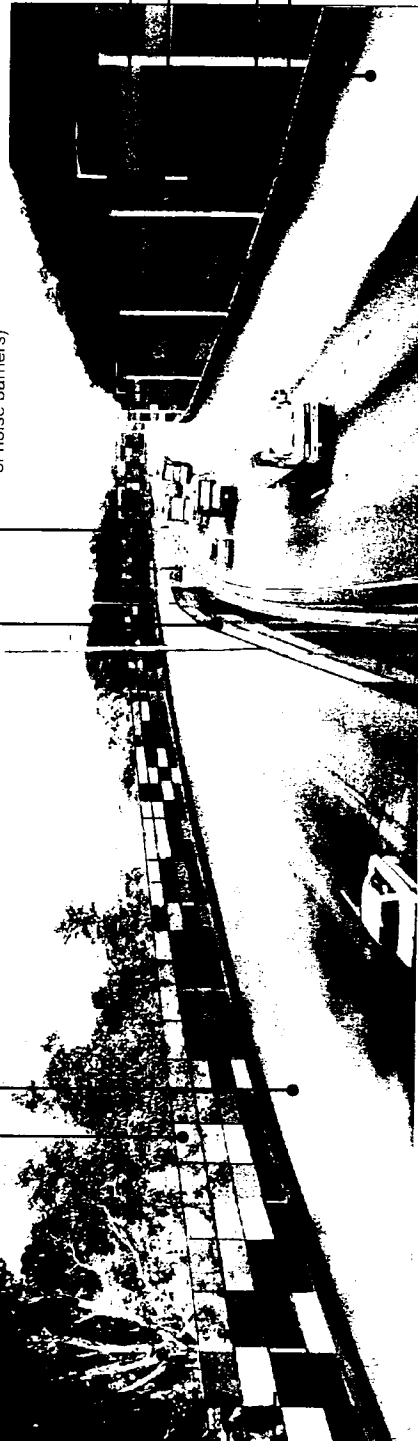
A. View from Footbridge east of Wo Hop Shek San Tsuen looking towards Cloudy Hill (Kau Lung Hang Shan) (Prior to Highway Widening)

Proposed 4m Vertical noise barrier (Refer to figure 9.6J for colour concept of noise barriers)

Proposed 5m Vertical Noise Barrier (Refer to figure 9.6J for colour concept of noise barriers)

Proposed 4m and 6m Vertical Barrier (Refer to figure 9.6J for colour concept of noise barriers)

Proposed New Carriageway



Transparent section

Coloured opaque section (including absorptive element)

Concrete profile barrier

Proposed 7m Vertical Barrier (Refer to figure 9.6J for colour concept of noise barriers)

Transparent section

Coloured opaque section (Including absorptive element)

Concrete profile barrier
Proposed New Carriageway

4 Lanes

4 Lanes

B. View from Footbridge east of Wo Hop Shek San Tsuen looking towards Cloudy Hill (Kau Lung Hang Shan) (During the design year, 10 years after opening)

Project:

Investigation Assignment for Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling

Title

Photomontage showing view from Footbridge east of Wo Hop Shek San Tsuen looking towards Cloudy Hill (Kau Lung Hang Shan)

Sketch number

Fig9.8h

Date

Nov 99

Drawn

Checked

Approved

Scale

Rev.

Scale

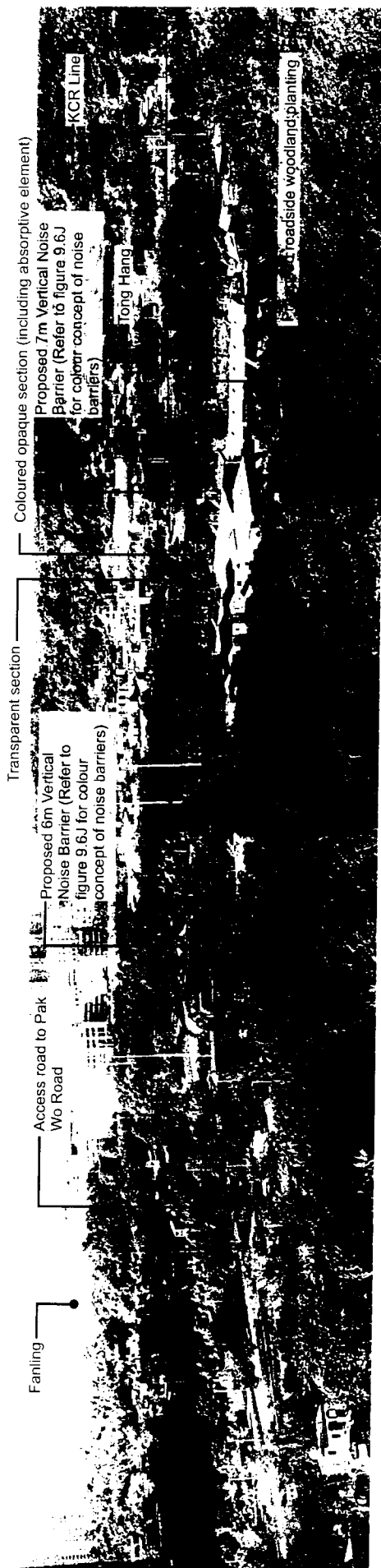
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A. View from Wo Hop Shek Cemetery looking North towards Lung Shan Foothills (Prior to Highway Widening)



B. View from Wo Hop Shek Cemetery looking North towards Lung Shan Foothills (During the design year, 10 years after opening)

Project:

Investigation Assignment for Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling

Title

Photomontage showing view from Wo Hop Shek Cemetery looking north towards Lung Shan Foothills

Sketch number

Fig 9.8i

Date
Nov 99

Drawn

Checked

Approved

Scale

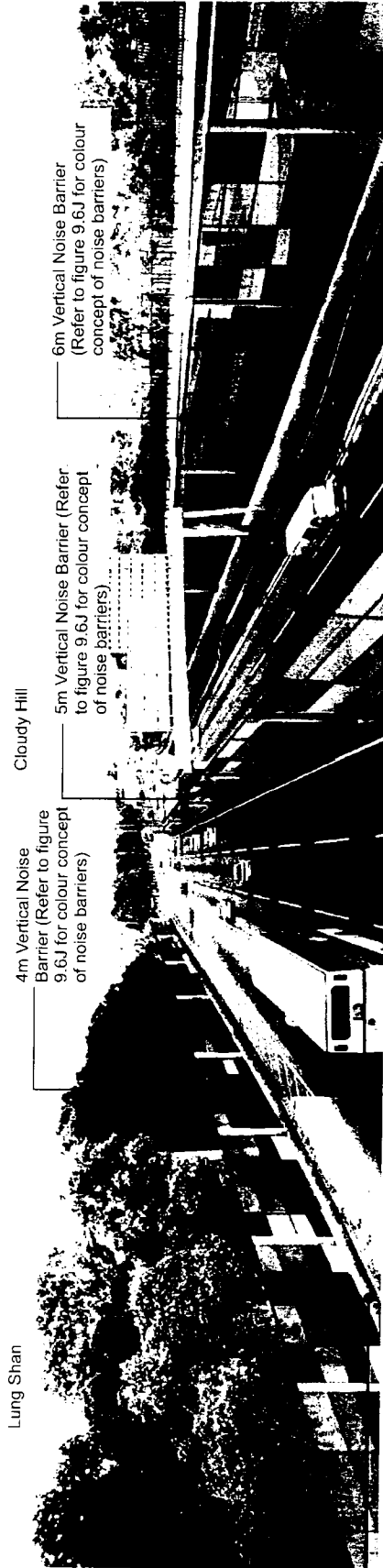
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A. View from Footbridge over Fanling Highway South of Fanling looking towards Cloudy Hill (Kau Lung Hang Shan) (Prior to Highway Widening)



Lung Shan

Cloudy Hill

4m Vertical Noise Barrier (Refer to figure 9.6J for colour concept of noise barriers)

5m Vertical Noise Barrier (Refer to figure 9.6J for colour concept of noise barriers)

6m Vertical Noise Barrier (Refer to figure 9.6J for colour concept of noise barriers)

Transparent section
Coloured opaque section (including absorptive element)
Concrete profile barrier

B. View from Footbridge over Fanling Highway South of Fanling looking towards Cloudy Hill (Kau Lung Hang Shan) (During the design year, 10 years after opening)

Project:

Investigation Assignment for Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling

Title
Photomontage showing view from Footbridge over Fanling Highway south of Fanling looking towards Cloudy Hill (Kau Lung Hang Shan)

Sketch number
Fig.9.8j

Date Nov 99	Drawn	Checked	Approved	Scale
CAD File :				

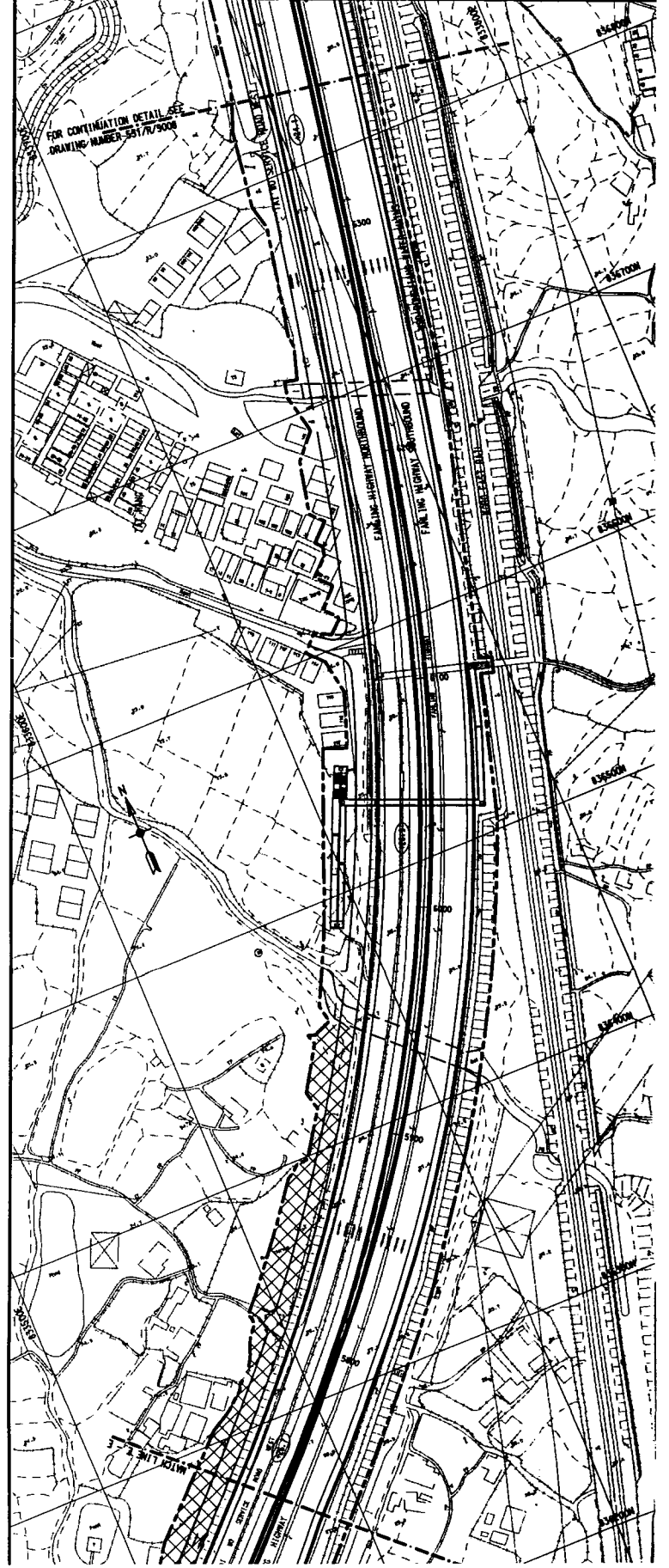
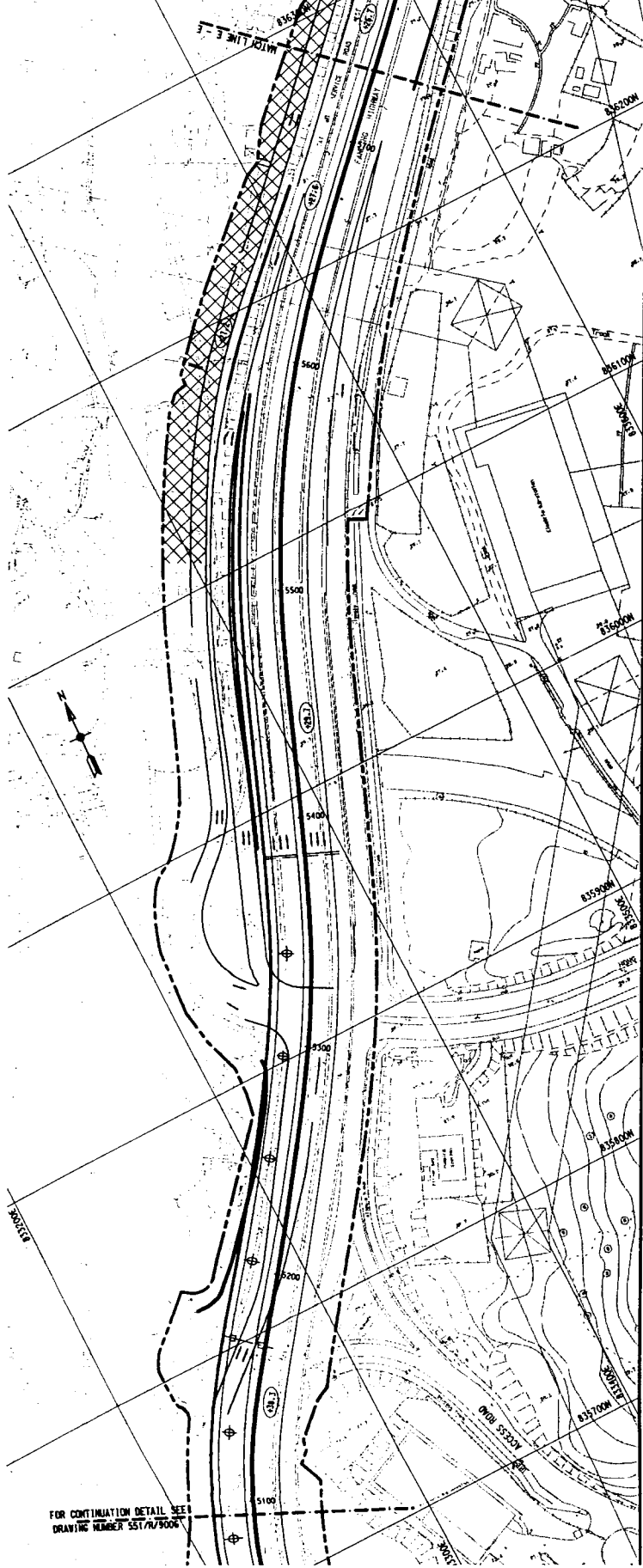
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NOTES:
 1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NUMBER FIG10-2.

LEGEND:
 AREA REQUIRING ARCHAEOLOGICAL MONITORING
 PROPOSED PROJECT LIMIT



Rev.	Date	Prp.	Description	Eng.	Chk.	App'd.

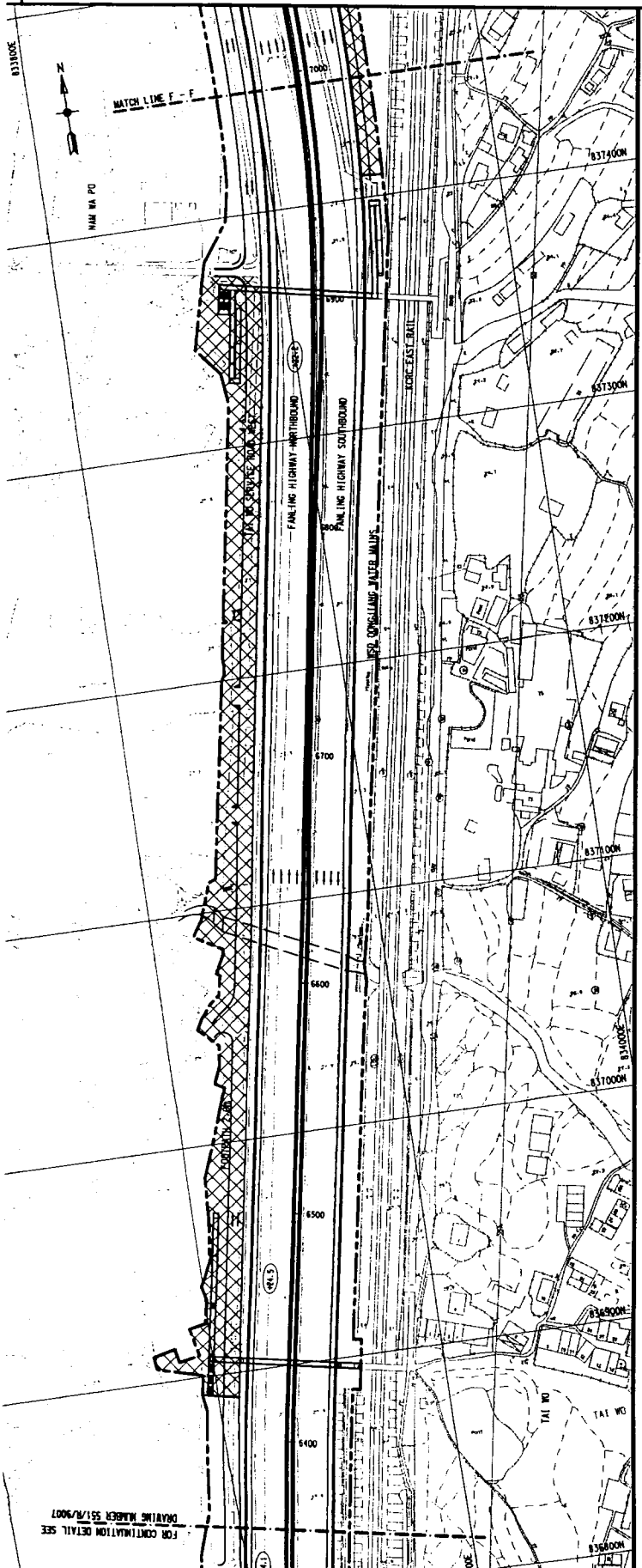
Client: The Government of the Hong Kong Special Administrative Region
Highways Department
Major Works Project Management Office
Consulting Engineering: Mott Connell Ltd.
 4077 Hopewell Centre
 118 Queen's Road East, Hong Kong
Tel No. 2828 6787
Fax No. 2827 1823

Project: Investigation Assignment for Widening of Tolo Highway/Fairing Highway between Island House Interchange and Fairing

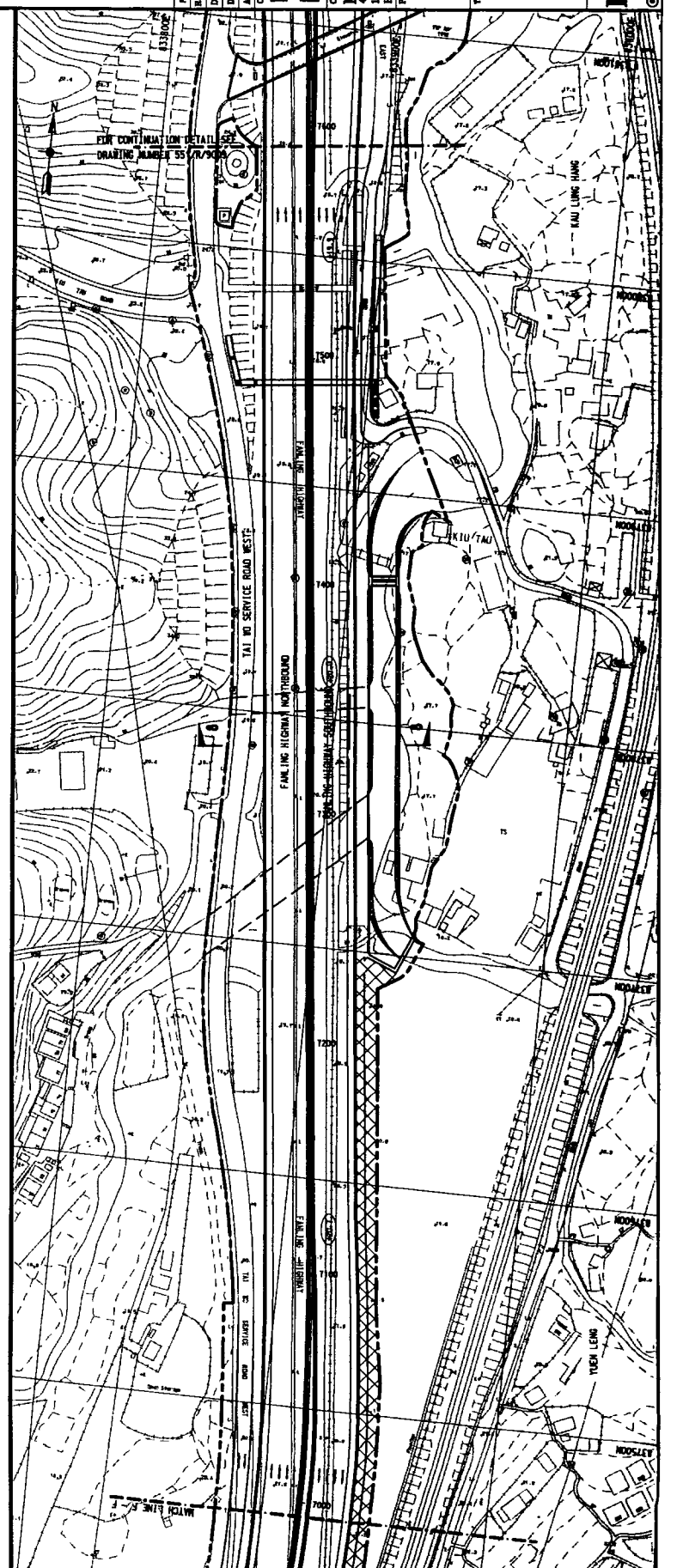
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Scale: 1 : 1,100
Contract No.:
Drawing No.: **FIG10-1**
Rev.: **P1**
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NOTES :
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NUMBER F1G10.2.
2. FOR GENERAL NOTES AND LEGEND REFER TO DRAWING NUMBER F1G10.1.



FOR CONTINUATION DETAIL SEE DRAWING NUMBER 55/17/9007



MATCH LINE E-E



PI	Date Issued	Description	By	Date	Checked

Client: The Government of the Hong Kong Special Administrative Region
Highways Department
Major Works Project Management Office

Contractor: Mott Connell Ltd.
115, Gloucester Road, Hong Kong
Tel No. 2828 6727
Fax No. 2827 1823

Project: Investigation Assignment for Widening of Tolo Highway/Fanning Highway between Island House Interchange and Fanning

TITLE: AREA REQUIRING ARCHAEOLOGICAL MONITORING

SHEET 2 OF 2

Scale: 1 : 1000

Contract No.:

Drawing No.: F1G10.2

PI