

KCRC GSA-021

LIGHT RAIL TRANSIT ALTERATIONS EIA

Final EIA Report [Appendices]

Tin Shui Wai Phase 4 Rail Extension



Document Verification

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Final EIA Report [Appendices]
Tin Shui Wai Phase 4 Rail Extension

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Prepared by

Signed

15 September, 1999

Franki Chiu

Signed

15 September, 1999

Approved by

Sam Tsoi

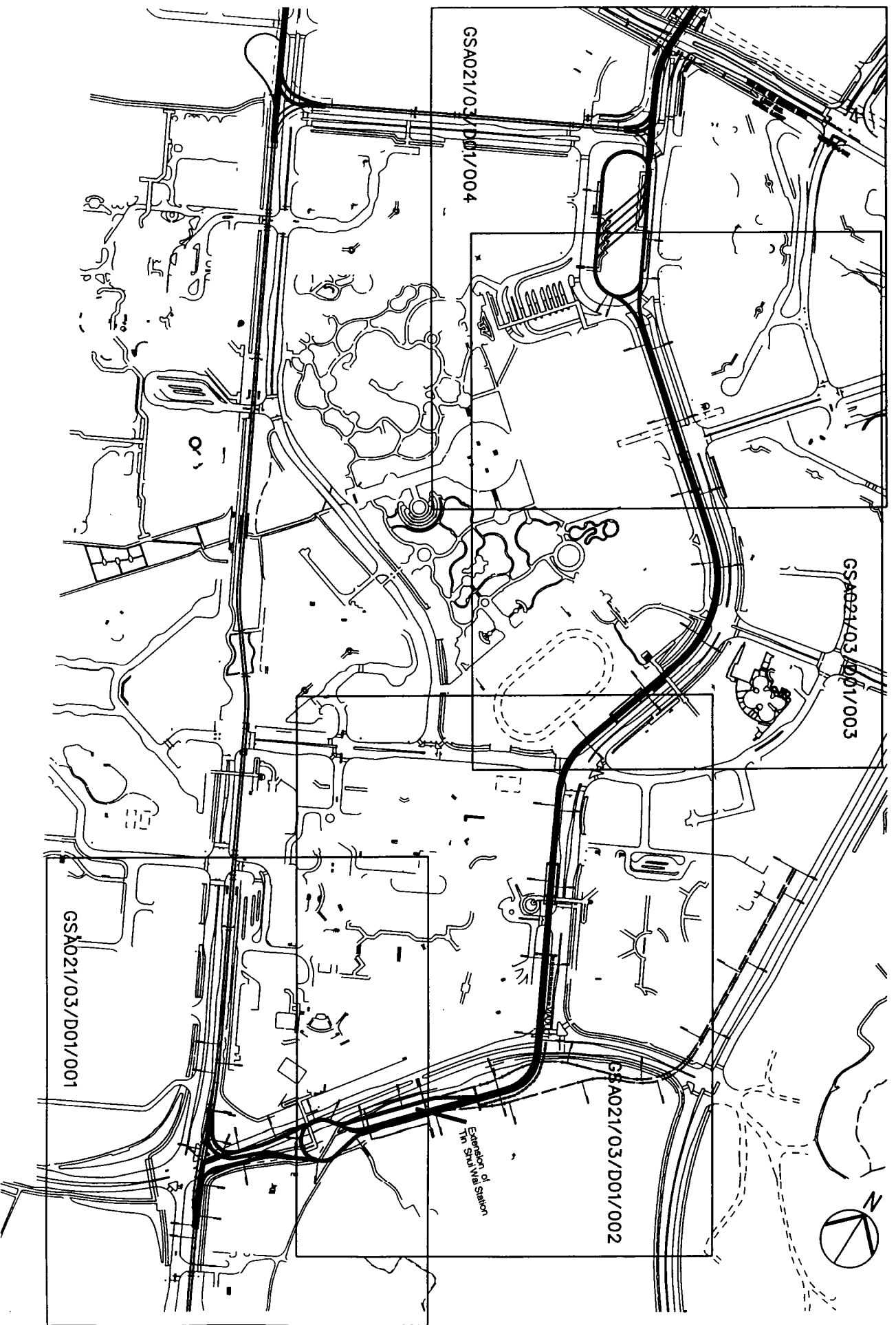
Signed

15 September, 1999

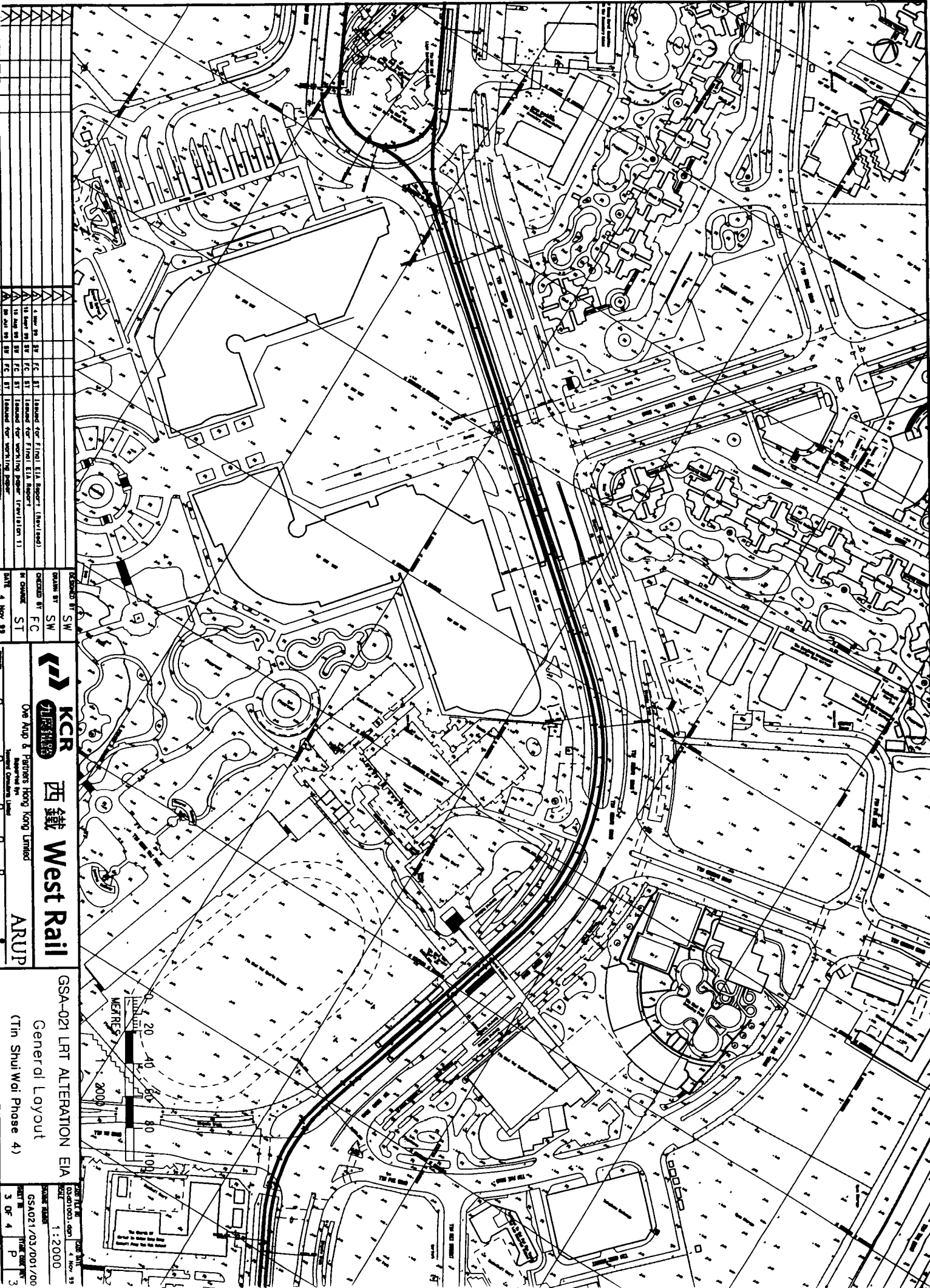
Revision record

Revision	Date	Description / Filename	Prepared	Checked	Approved
1	10.11.99	Comments incorporated	TC	SA	SA

APPENDIX 1 – Layout of Proposed LRT Works



Tin Shui Wai Phase 4



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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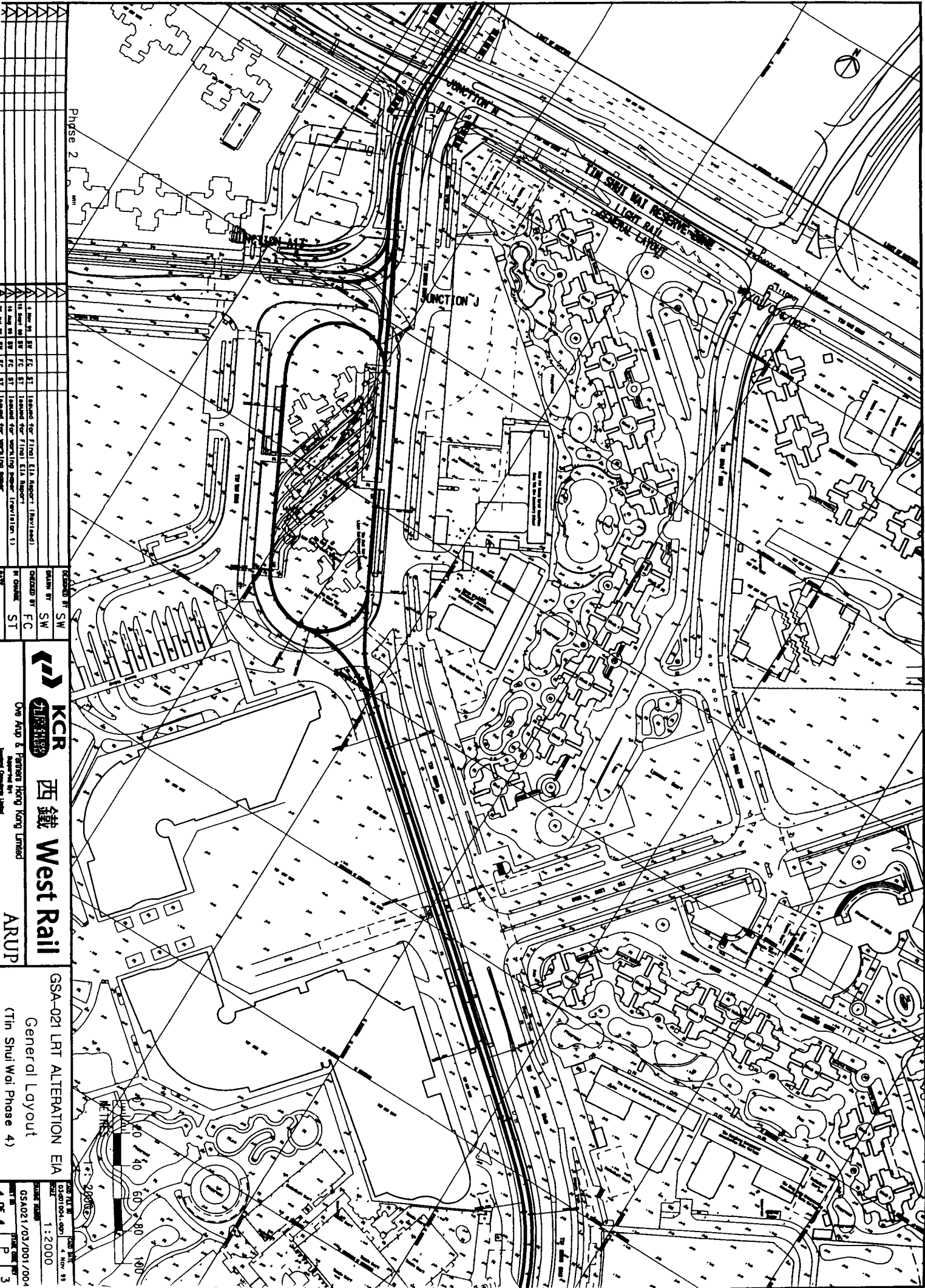
西鐵 West Rail

ARUP

C&A AND T. PETERS HONG KONG LIMITED
 Incorporated in Hong Kong

GSA-021 LRT ALTERATION EIA
 General Layout
 (Tin Shui Wai Phase 4)

SCALE: 1:2000
 DATE: 1 Nov 99
 SHEET: 3 OF 4
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KCR

西鐵 West Rail

One And a Half Hong Kong Limited

ARUP

GSA-021 LRT ALTERATION EIA

General Layout

(Tin Shui Wai Phase 4)

Scale: 1:2,000

Drawn by: SW

Checked by: FC

Designed by: FC

Approved by: ST

Issued for: L1001 EIA Report (Revised)

Issued for: L1001 EIA Report

Issued for: Working Paper (Revision 1)

Issued for: Working Paper

1:2,000

Scale: 1:2,000

Drawn by: SW

Checked by: FC

Designed by: FC

Approved by: ST

Issued for: L1001 EIA Report (Revised)

Issued for: L1001 EIA Report

Issued for: Working Paper (Revision 1)

Issued for: Working Paper

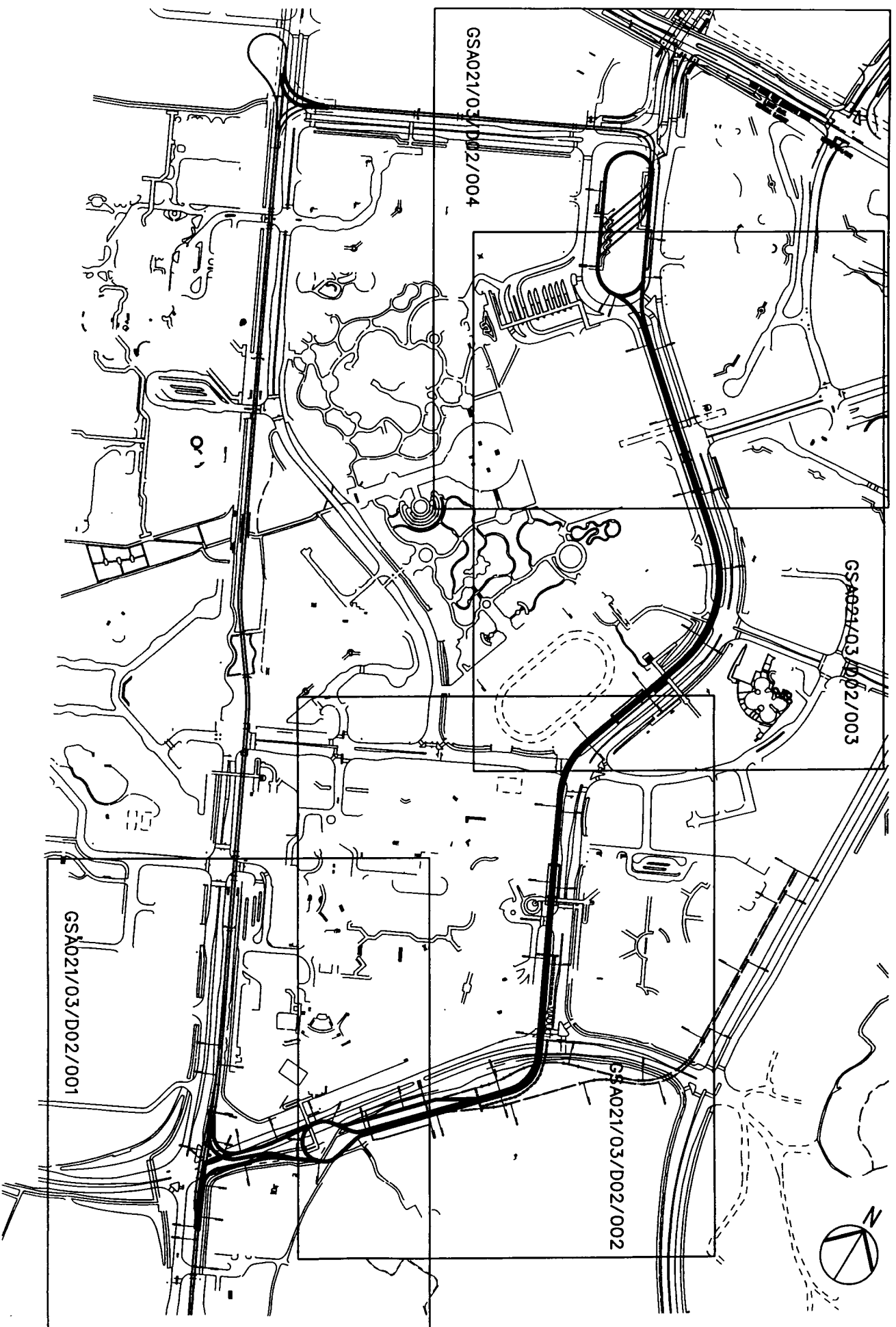
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APPENDIX 2 – Locations and Description of Neighbouring NSRs

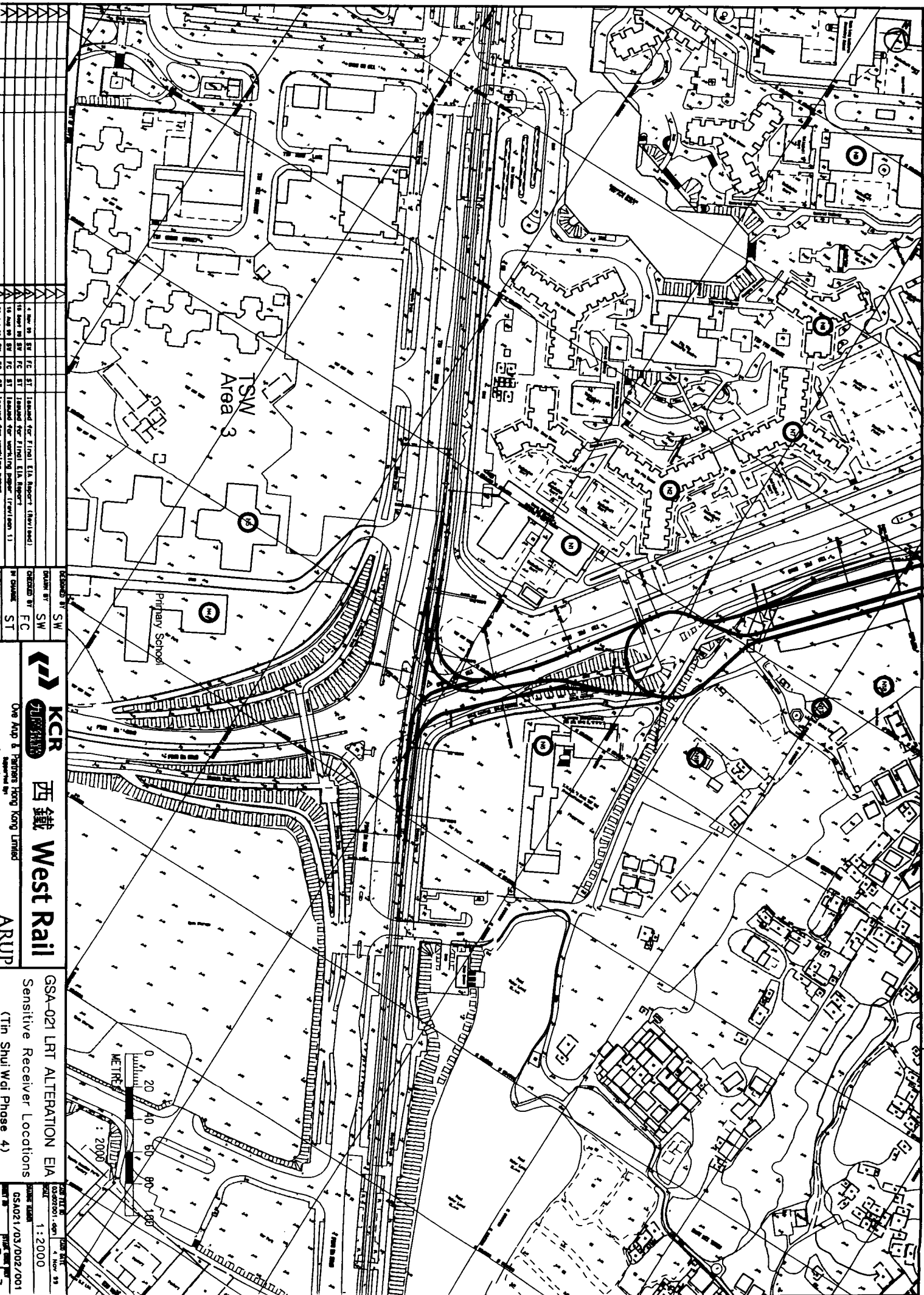
Light Rail Transit Alterations EIA - Representative Sensitive Receivers

Area (Area Code) ⁽¹⁾	NSR No.	Figure No.	Building Description	Landuse ⁽¹⁾	Area Sensitive Rating ⁽²⁾	Building Height ⁽³⁾	Remarks
TSWPH4	N1	GS/A021/03/D02/001	Queen Elizabeth School (Old Student's Association Primary School)	E	B	L	Air-conditioning provided at all rooms, except hall
TSWPH4	N2	GS/A021/03/D02/001	Yiu Foo House	R	B	H	-
TSWPH4	N3	GS/A021/03/D02/001	The Spastics Association of HK (G/F of Yiu Foo House)	C	B	-	Air-conditioning provided
TSWPH4	N4	GS/A021/03/D02/001	Not used	-	-	-	-
TSWPH4	N5	GS/A021/03/D02/001	TSW Area 3 Proposed Primary School	E	B	L	-
TSWPH4	N6	GS/A021/03/D02/001	TSW Area 3 Proposed HOS Development	R	B	H	-
TSWPH4	N7	GS/A021/03/D02/001	T.W.C.H.K Kwok Yiu Wai College	E	B	L	Northern facade of the Hall being upgraded, air conditioning will be provided
TSWPH4	N8	GS/A021/03/D02/001	Yiu Tai House	C	B	-	-
TSWPH4	N9	GS/A021/03/D02/001	RCHE (G/F to 2/F of Yiu Tai House)	R	B	H	Air-conditioning provided
TSWPH4	N10	GS/A021/03/D02/002	Yiu Hong House	E	B	L	-
TSWPH4	N11	GS/A021/03/D02/002	Chiu Yung Primary School (Hong Kong)	R	B	H	-
TSWPH4	N12	GS/A021/03/D02/002	Yau Hong House	R	B	H	-
TSWPH4	N13	GS/A021/03/D02/002	Yau Yung House	R	B	H	-
TSWPH4	N14	GS/A021/03/D02/002	Yiu Wah House	R	B	H	-
TSWPH4	N15	GS/A021/03/D02/002	Yiu Fung House	R	B	H	-
TSWPH4	N16	GS/A021/03/D02/002	The Church of Christ in China Hong Kong Council Fung Yiu Wai School	E	B	L	-
TSWPH4	N17	GS/A021/03/D02/002	3-storeys residential block	R	B	L	-
TSWPH4	N18	GS/A021/03/D02/002	3-storeys residential block	R	B	L	-
TSWPH4	N19	GS/A021/03/D02/002	3-storeys residential block	R	B	L	-
TSWPH4	N20	GS/A021/03/D02/002	Tea Sun House (HOS)	R	B	M	-
TSWPH4	N21	GS/A021/03/D02/002	Tea Sun House (Renal block)	R	B	M	-
TSWPH4	N22	GS/A021/03/D02/002	Tea Yan House (Renal block)	R	B	M	-
TSWPH4	N23	GS/A021/03/D02/002	Tea Yan House (HOS)	R	B	H	-
TSWPH4	N24	GS/A021/03/D02/002	Tea Fung House	R	B	H	-
TSWPH4	N25	GS/A021/03/D02/002	Not used	-	-	-	-
TSWPH4	N26	GS/A021/03/D02/002	Buddhist To Chi Fai She Yung Yiu Lam Memorial School	E	B	L	-
TSWPH4	N27	GS/A021/03/D02/003	The Shui Wai Catholic Primary School	E	B	L	-
TSWPH4	N28	GS/A021/03/D02/003	The Hongkong Management Association Kuo College	E	B	L	Air-conditioning provided
TSWPH4	N29	GS/A021/03/D02/003	Kenswood Court (Bk 14)	R	B	H	-
TSWPH4	N30	GS/A021/03/D02/003	Kenswood Court (Bk 13)	R	B	H	-
TSWPH4	N31	GS/A021/03/D02/003	Lynwood Court (Bk 1)	R	B	H	-
TSWPH4	N32	GS/A021/03/D02/003	Lynwood Court (Bk 2)	R	B	H	-
TSWPH4	N33	GS/A021/03/D02/003	Queen Elizabeth Old Student's Association Secondary School	E	B	L	-
TSWPH4	N34	GS/A021/03/D02/004	Not used	-	-	-	-
TSWPH4	N35	GS/A021/03/D02/004	Shap Pat Heung Rural Committee Kung Yiu She Secondary School	E	B	L	Air-conditioning provided at Hall
TSWPH4	N36	GS/A021/03/D02/004	Lynwood Court (Bk 8)	R	B	H	-
TSWPH4	N37	GS/A021/03/D02/004	Lynwood Court (Bk 9)	R	B	H	-
TSWPH4	N38	GS/A021/03/D02/004	Lynwood Court (Bk 10)	R	B	H	-
TSWPH4	N39	GS/A021/03/D02/004	Lynwood Court (Bk 10)	R	B	H	-
TSWPH4	N40	GS/A021/03/D02/004	Lynwood Court (Bk 10)	R	B	H	-
TSWPH4	N41	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N42	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N43	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N44	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N45	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N46	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N47	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N48	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N49	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N50	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N51	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N52	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N53	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N54	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N55	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N56	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N57	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N58	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N59	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N60	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N61	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N62	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N63	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N64	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N65	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N66	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N67	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N68	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N69	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N70	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N71	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N72	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N73	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N74	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N75	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N76	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N77	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N78	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N79	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N80	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N81	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N82	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N83	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N84	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N85	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N86	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N87	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N88	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N89	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N90	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N91	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N92	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N93	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N94	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N95	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N96	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N97	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N98	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N99	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-
TSWPH4	N100	GS/A021/03/D02/004	Future Top-side Property Development at TSW LRT Terminus	R	B	H	-

- Remarks:
- (1) TSWPH4
PTR
LRT
The Shui Wai Reserve Zone
Residential use
Educational use
Commercial use
Cen.
Cen./Religious/Care Home for the Elderly
Industrial use
Government
Acceptable Noise Level (ANL) for an ASR of B are 55dB(A) during day time (0700 to 2300 hours) and 55dB(A) during nighttime (2300 to 0700 hours)
Acceptable Noise Level (ANL) for an ASR of C are 70dB(A) during day time (0700 to 2300 hours) and 60dB(A) during nighttime (2300 to 0700 hours)
The ASRs are applied for operational noise assessment only
- (2) L
No. of floors is less than 10
M
No. of floors is between 10 and 20
H
No. of floors is greater than 20



Tin Shui Wai Phase 4



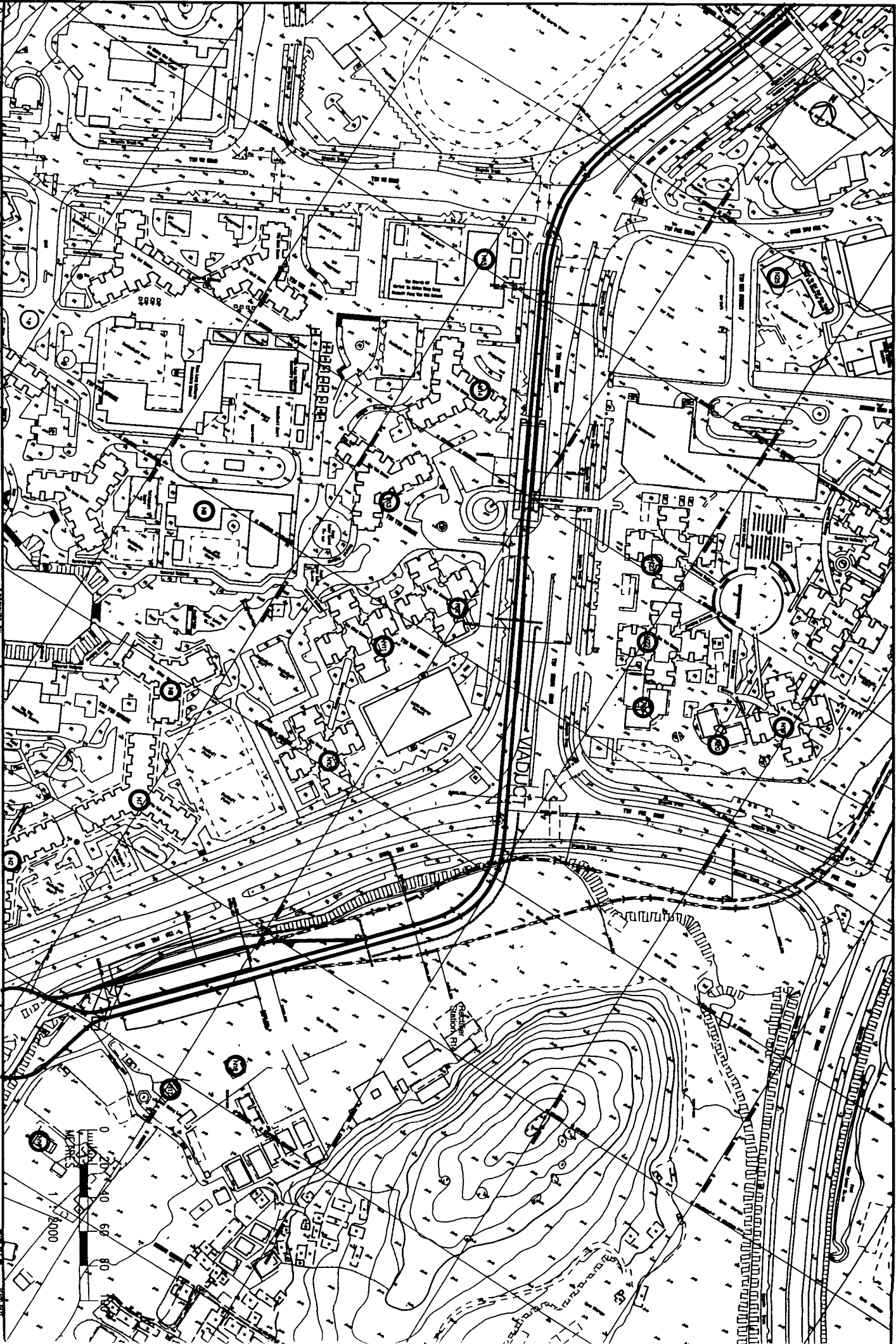
NO.	REVISION	DATE	BY	CHKD.	APPD.
1	ISSUED FOR EIA REPORT (REVISED)	15 Nov 99	SW	FC	ST
2	ISSUED FOR EIA REPORT	16 Nov 99	SW	FC	ST
3	ISSUED FOR EIA REPORT	16 Nov 99	SW	FC	ST
4	ISSUED FOR EIA REPORT	16 Nov 99	SW	FC	ST
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11	ISSUED FOR EIA REPORT	16 Nov 99	SW	FC	ST

DESIGNED BY SW
 DRAWN BY SW
 CHECKED BY FC
 IN CHARGE ST

KCR
西鐵 West Rail
 One Airport Parkway
 Kowloon, Hong Kong
 Kowloon, Hong Kong Limited

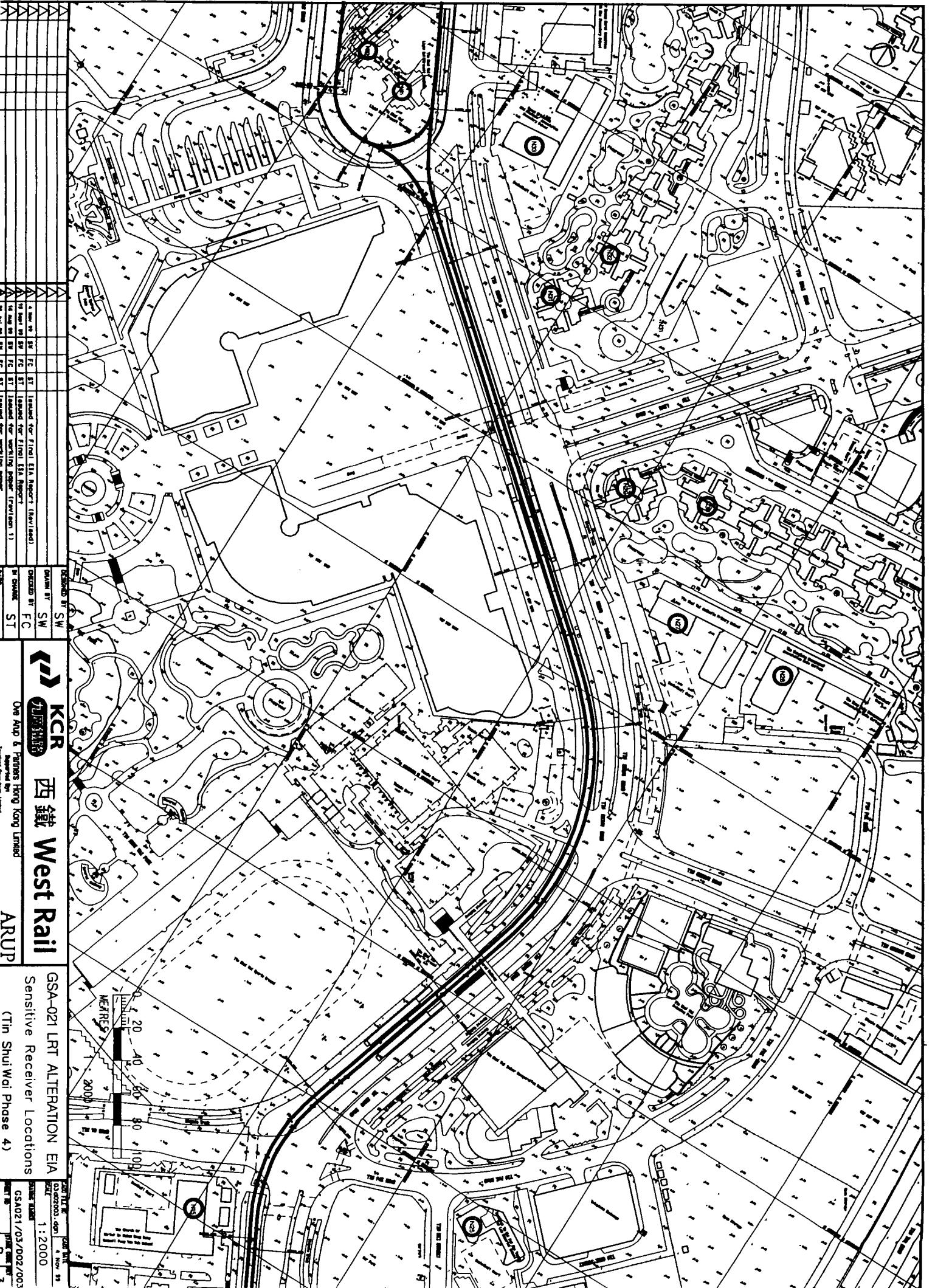
ARUP
 GSA-021 LRT ALTERATION EIA
 Sensitive Receiver Locations
 (Tin Shui Wai Phase 4)

DATE: 15 Nov 99
 SCALE: 1:2000
 PROJECT NO: GSA021/03/002/001



REVISION	DATE	BY	CHKD	APPD
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61	15/01/00	ST	FC	ST
62	15/01/00	ST	FC	ST
63	15/01/00	ST	FC	ST
64	15/01/00	ST	FC	ST
65	15/01/00	ST	FC	ST
66	15/01/00	ST	FC	ST
67	15/01/00	ST	FC	ST
68	15/01/00	ST	FC	ST
69	15/01/00	ST	FC	ST
70	15/01/00	ST	FC	ST
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76	15/01/00	ST	FC	ST
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78	15/01/00	ST	FC	ST
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97	15/01/00	ST	FC	ST
98	15/01/00	ST	FC	ST
99	15/01/00	ST	FC	ST
100	15/01/00	ST	FC	ST

KCR 西鐵 West Rail
ARUP
 GSA-021 LRT ALTERATION EIA
 Sensitive Receiver Locations
 (Tin Shui Wai Phase 4)
 SCALE 1:2000
 DATE 15/01/00
 DRAWN BY ST
 CHECKED BY FC
 IN CHARGE ST



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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DESIGNED BY	SW
CHECKED BY	FC
BY DRAWN	ST


KCR 西鐵 West Rail
 One And A Halfway Hong Kong Limited
 ARUP

GSA-021 LRT ALTERATION EIA
 Sensitive Receiver Locations
 (Tin Shui Wai Phase 4)
 SCALE 1:2000
 DATE 03/02/2003

APPENDIX 3 – Not Used

APPENDIX 4 – Predicted Train Frequency and Speed (Provided by KCR)



KCR
九廣鐵路

九廣鐵路公司
Kowloon-Canton Railway Corporation
西鐵部 West Rail Division

Comm Ref: WRI/CRN1999-0056460

8 September 1999

Ove Arup & Partners Hong Kong Ltd
56/F, Hopewell Centre
183 Queen's Road East
Wanchai
Hong Kong

By post

Attn: Mr Sam Tsui

Subject: KCRC West Rail
GSA-021 LRT Alterations, EIA
LRV Operating Speed and Frequency

Arup Acoustics		File No.	2211
Master Ref: 210 STQ		Project Ref:	
Reply Ref:	Box	Date	
Action Required:	do copy		
Received 09 SEP 1999			
Initials	ST	EC	
Action	ST		
Indo.			
Copy			

Dear Mr Tsui,

I would like to confirm the following Light Rail (LR) information should be used in the above EIA:

- Annex A LRV frequency in Pui To Road area before Nov 2003
- Annex B LRV frequency in Pui To Road area for year up to 2011
- Annex C LRV frequency at Tsing Lun Road before Nov 2003
- Annex D LRV frequency at Tsing Lun Road for year up to 2011
- Annex E LRV frequency in Tin Shui Wai area before Nov 2003
- Annex F LRV frequency in Tin Shui Wai area for year up to 2011
- Annex G LRV operating speed in Tin Shui Wai Reserve Zone
- Annex H LRV operating speed in Tin Shui Wai Phase 4
- Annex I LRV operating speed at Tsing Lun Road before Nov 2003
- Annex J LRV operating speed at Tsing Lun Road after Nov 2003
- Annex K LRV operating speed at Pui To Road



KCR
九廣鐵路

九廣鐵路公司
Kowloon-Canton Railway Corporation
西鐵部 West Rail Division

Comm Ref: WRI/CRN1999-0056460
Date: 8 September 1999
To: OAP - Sam Tsui

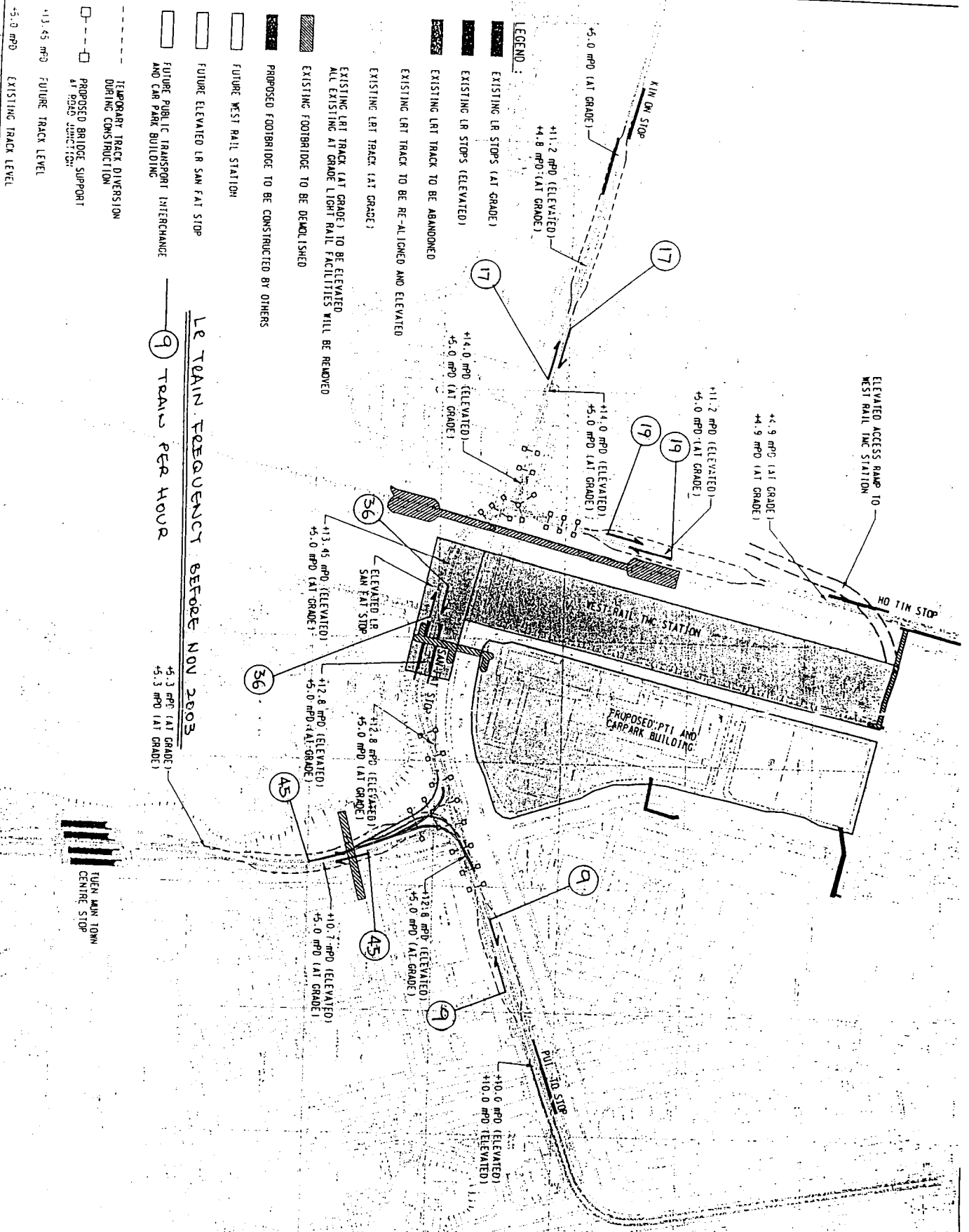
The LRV frequency and LRV operating speed were agreed with you on 22 June 1999 and 30 July 1999 respectively.

Yours sincerely,

Vic McNally
Environmental Manager

VM/BLC/ah
R.W.

Response Required: No
Due Date: N/A
Attachments: Yes
Contract Code: EN101



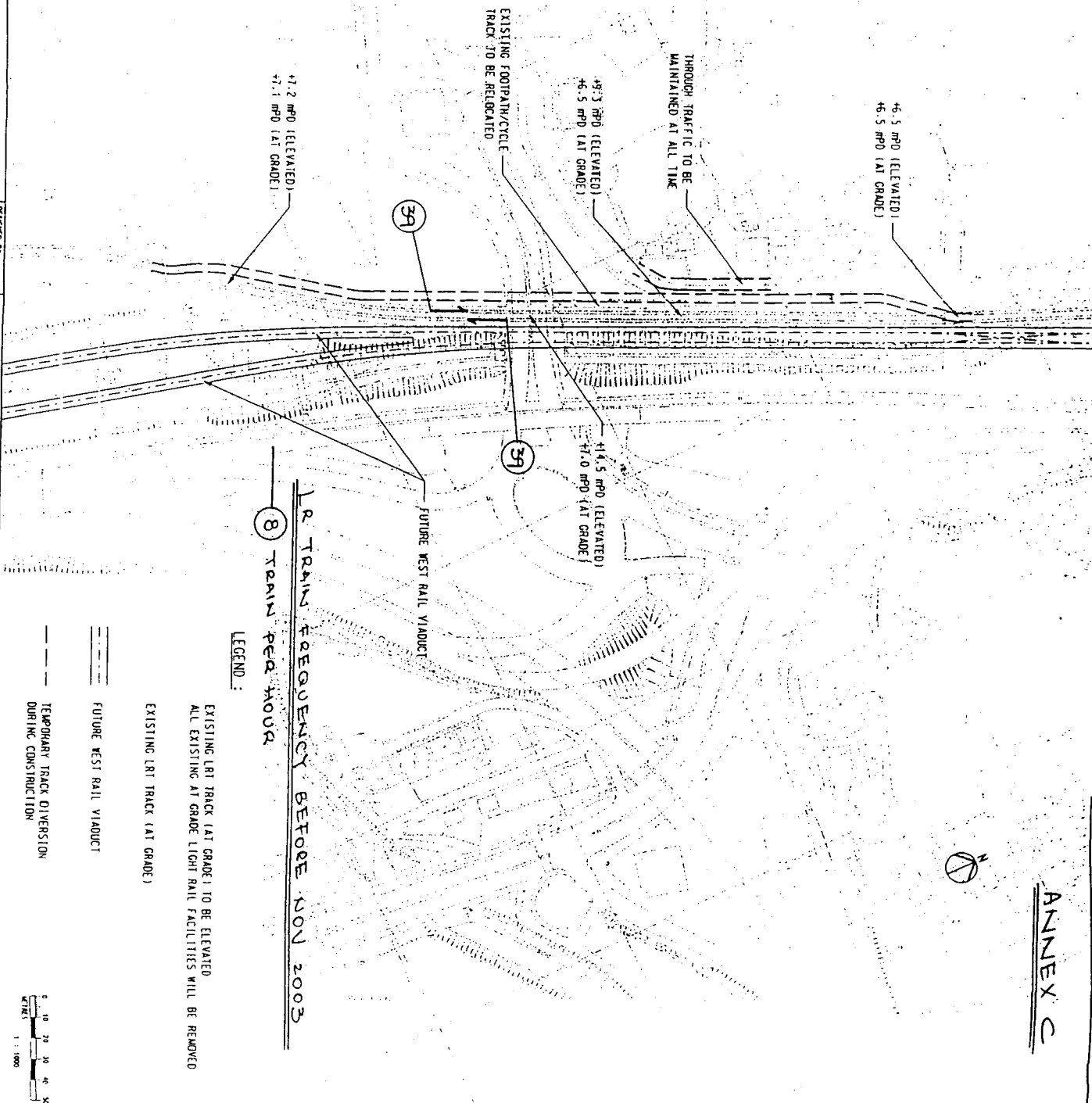
LEGEND:

- EXISTING LR STOPS (AT GRADE)
- EXISTING LR STOPS (ELEVATED)
- EXISTING LRT TRACK TO BE ABANDONED
- EXISTING LRT TRACK TO BE RE-ALIGNED AND ELEVATED
- EXISTING LRT TRACK (AT GRADE)
- EXISTING LRT TRACK (AT GRADE) TO BE ELEVATED
- ALL EXISTING AT GRADE LIGHT RAIL FACILITIES WILL BE REMOVED
- EXISTING FOOTBRIDGE TO BE DEMOLISHED
- PROPOSED FOOTBRIDGE TO BE CONSTRUCTED BY OTHERS
- FUTURE WEST RAIL STATION
- FUTURE ELEVATED LR SAN FAT STOP
- FUTURE PUBLIC TRANSPORT INTERCHANGE AND CAR PARK BUILDING
- TEMPORARY TRACK DIVERSION DURING CONSTRUCTION
- PROPOSED BRIDGE SUPPORT AT ROAD JUNCTION
- FUTURE TRACK LEVEL
- EXISTING TRACK LEVEL

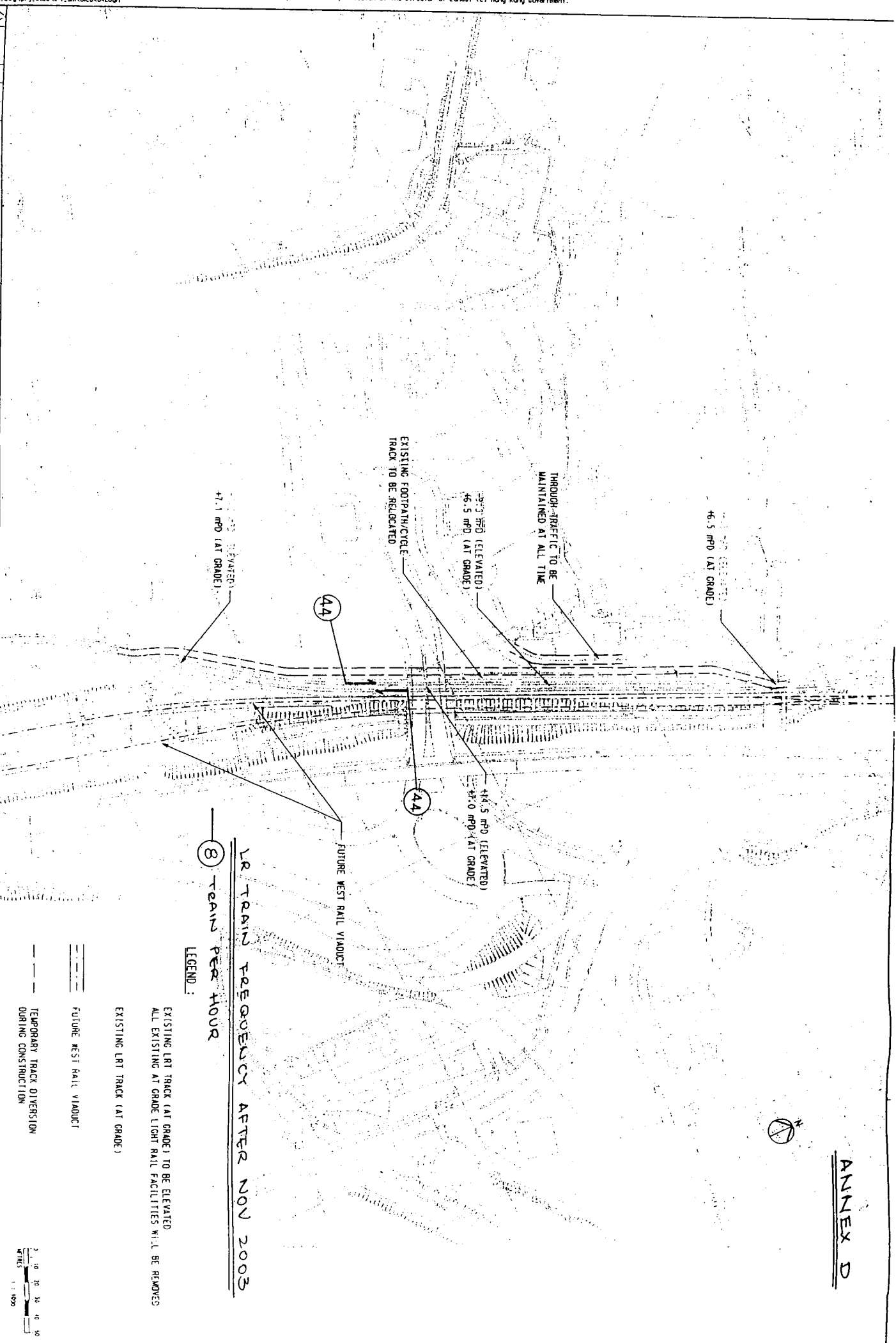
LE TRAIN FREQUENCY BEFORE NOV 2003
⑨ TRAIN PER HOUR

REV	DATE	BY	CHKD	APP	DESCRIPTION
1	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
2	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
3	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
4	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
5	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
6	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
7	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
8	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
9	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
10	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
11	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
12	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
13	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
14	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
15	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
16	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
17	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
18	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
19	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
20	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
21	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
22	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
23	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
24	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
25	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
26	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
27	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
28	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
29	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
30	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
31	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
32	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
33	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
34	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
35	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
36	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
37	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
38	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
39	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
40	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
41	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
42	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
43	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
44	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
45	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
46	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
47	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
48	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
49	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
50	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
51	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
52	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
53	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
54	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
55	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
56	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
57	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
58	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
59	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
60	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
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62	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
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64	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
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67	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
68	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
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70	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
71	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
72	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
73	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
74	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
75	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
76	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
77	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
78	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
79	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
80	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
81	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
82	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
83	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
84	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
85	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
86	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
87	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
88	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
89	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
90	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
91	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
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93	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
94	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER
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100	01/11/99	W. CHUNG	W. CHUNG		ISSUED FOR TENDER

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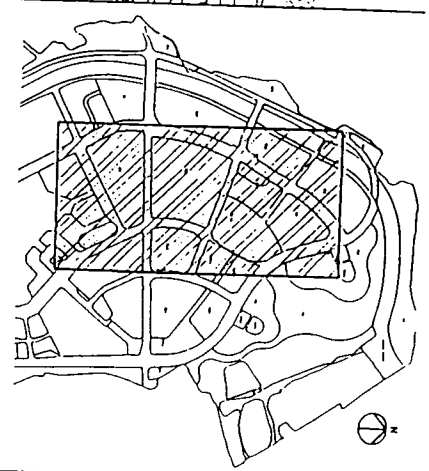


 KCR 九廣鐵路		西鐵 West Rail	
TSING LING ROAD GRADE SEPARATION (JUNCTION L1)			
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DATE 			



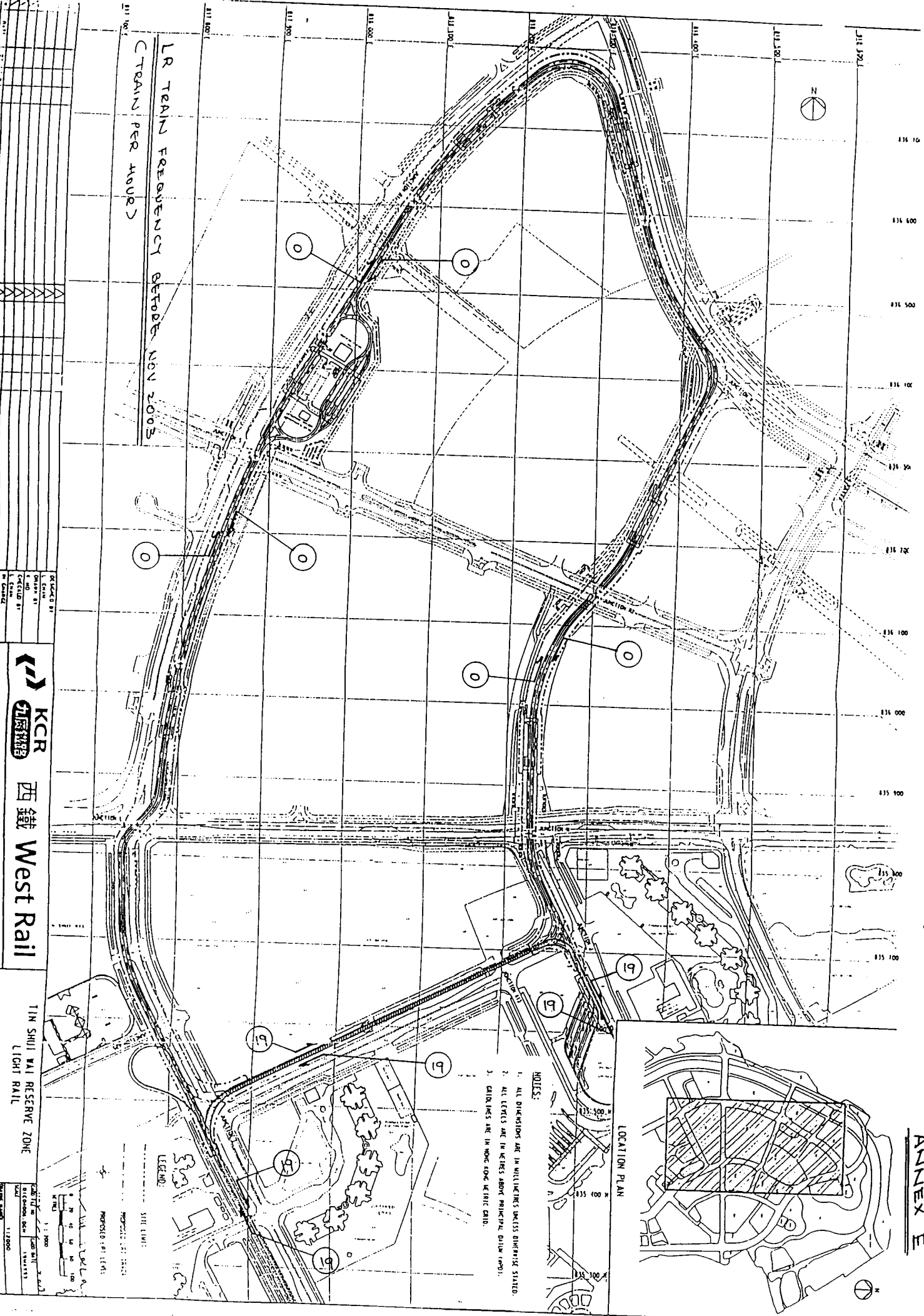
ANNEX E

LOCATION PLAN



- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 2. ALL LEVELS ARE IN METRES ABOVE PRINCIPAL DATUM (PD).
 3. GRADING IS IN ROAD FORD METRIC DATA.

LR TRAIN FREQUENCY DETAIL NOV 2003
CTRAIN PER HOUR



PROJECT NO.	111 000
DATE	11/11/03
DESIGNED BY	111 000
CHECKED BY	111 000
APPROVED BY	111 000
SCALE	1:1000
PROJECT NO.	111 000
DATE	11/11/03
DESIGNED BY	111 000
CHECKED BY	111 000
APPROVED BY	111 000
SCALE	1:1000

KCR 西鐵 West Rail

TIN SHUI WAI RESERVE ZONE LIGHT RAIL

836 100
836 400
836 500
836 600
836 700
836 800
836 900
835 900
835 800
835 700



LR TRAIN FREQUENCY AFTER NOV 2003
(TRAIN PER HOUR)

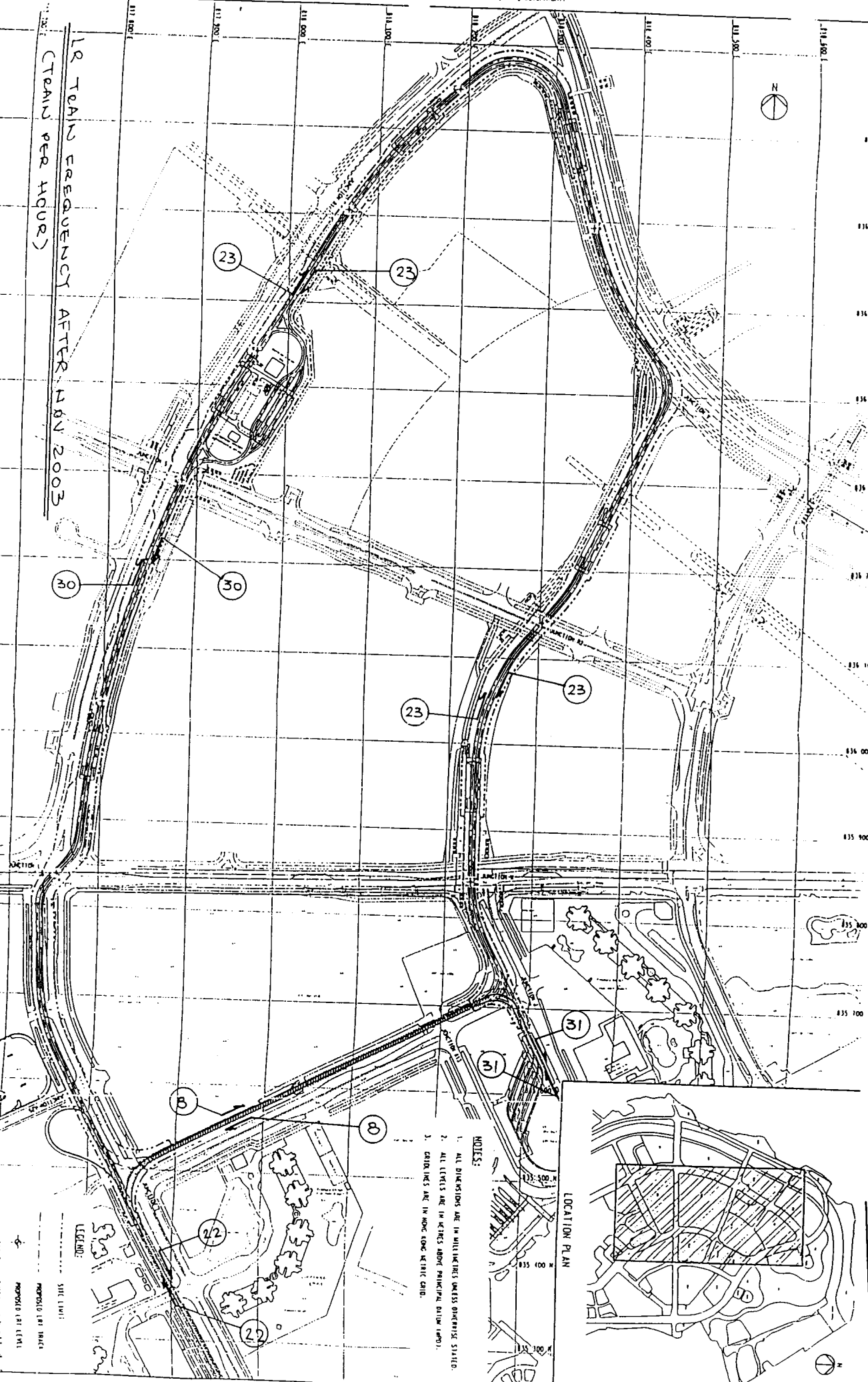
NO.	REMARKS	DATE	BY	CHECKED BY	DATE
1	DESIGNED BY				
2	DRAWN BY				
3	CHECKED BY				
4	IN CHARGE				
5	DATE				

KCR 九廣鐵路
西鐵 West Rail

TIN SHUI RAIL RESERVE ZONE
LIGHT RAIL

SCHEMATIC PLAN

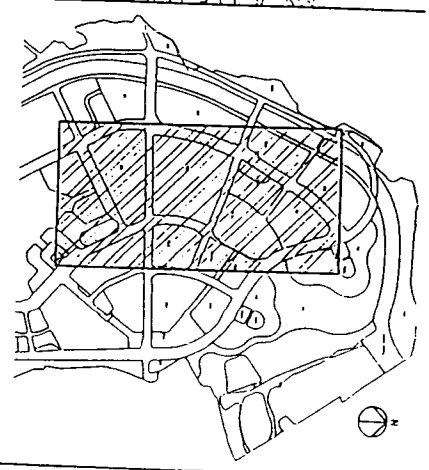
NO/01/CO4/008



NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
2. ALL LEVELS ARE IN METRES ABOVE PRINCIPAL DATUM (PD).
3. CROSSINGS ARE IN MORE DETAILED PLANS.

LOCATION PLAN

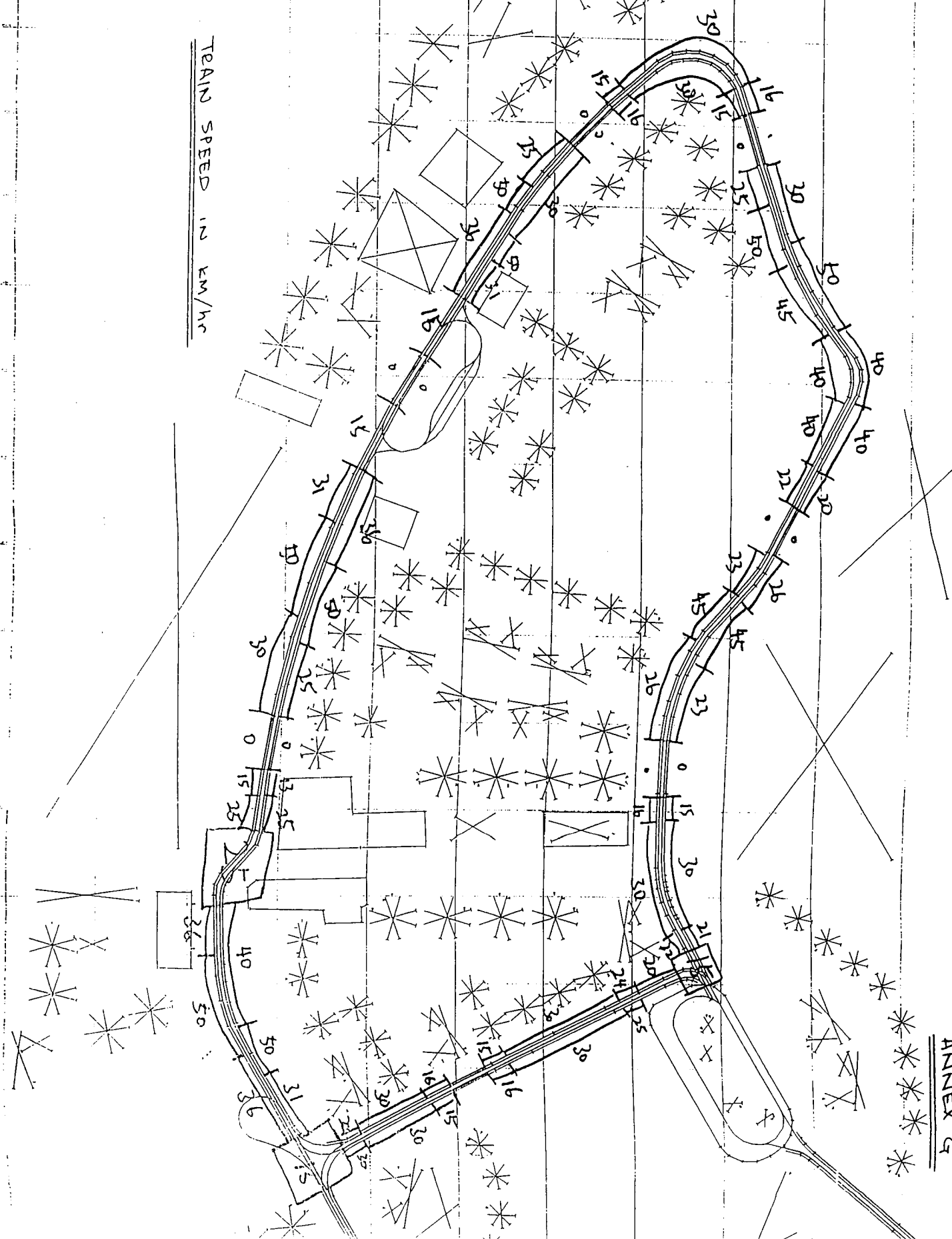


ANNEX F

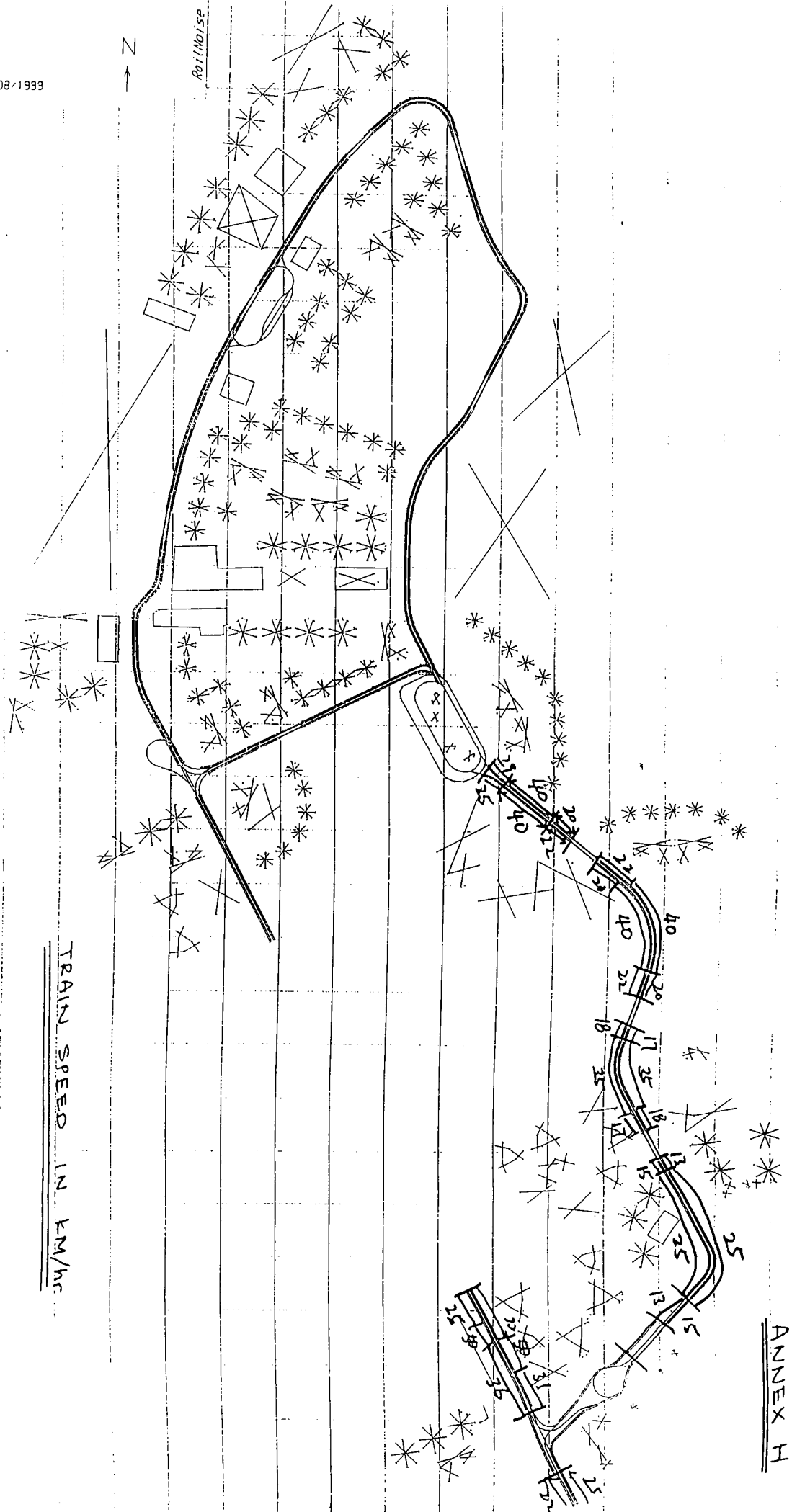


Rail/Noise

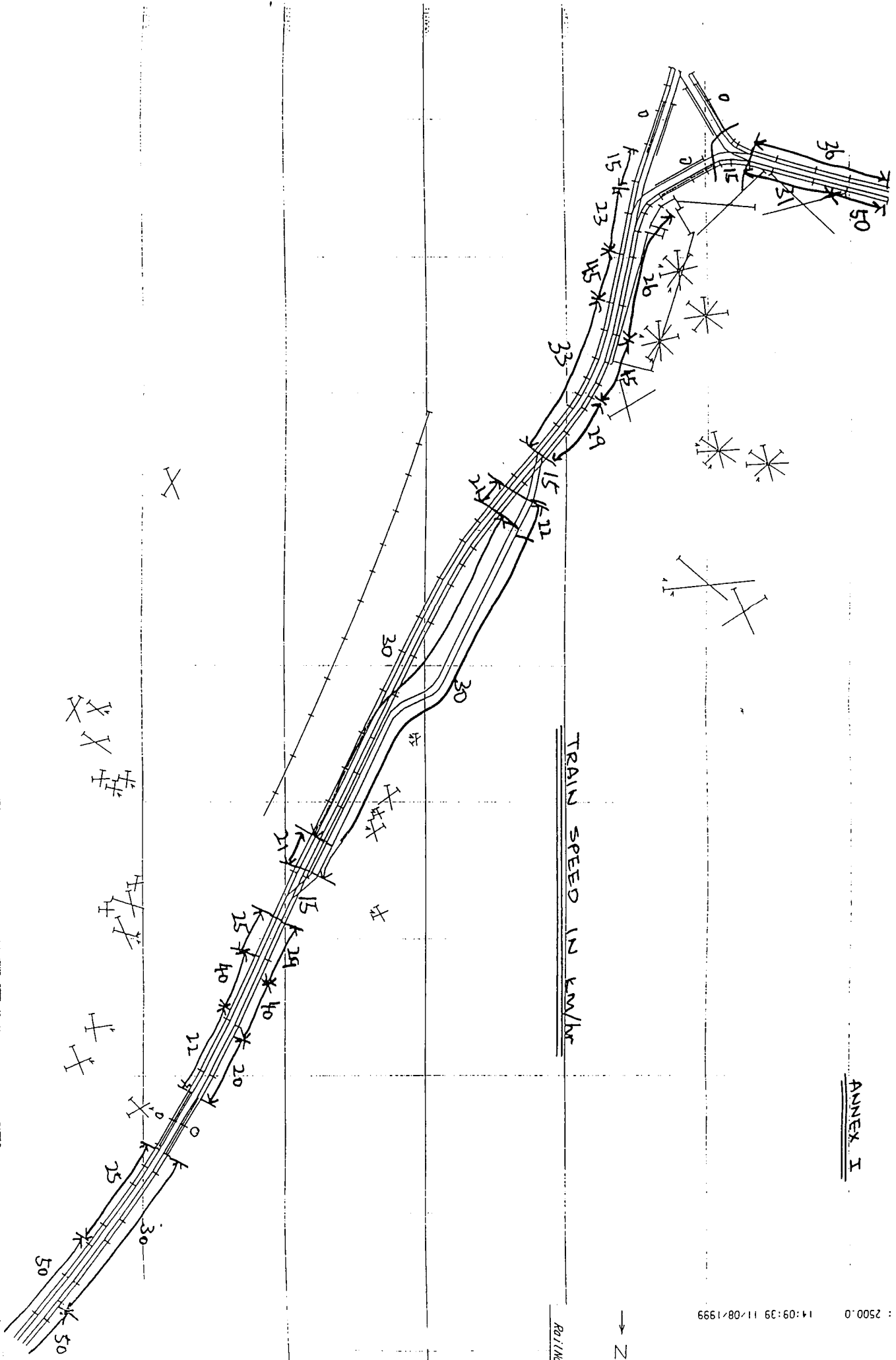
TRAIN SPEED in km/hr



ANNEX G



ANNEX I



Rail/Noise

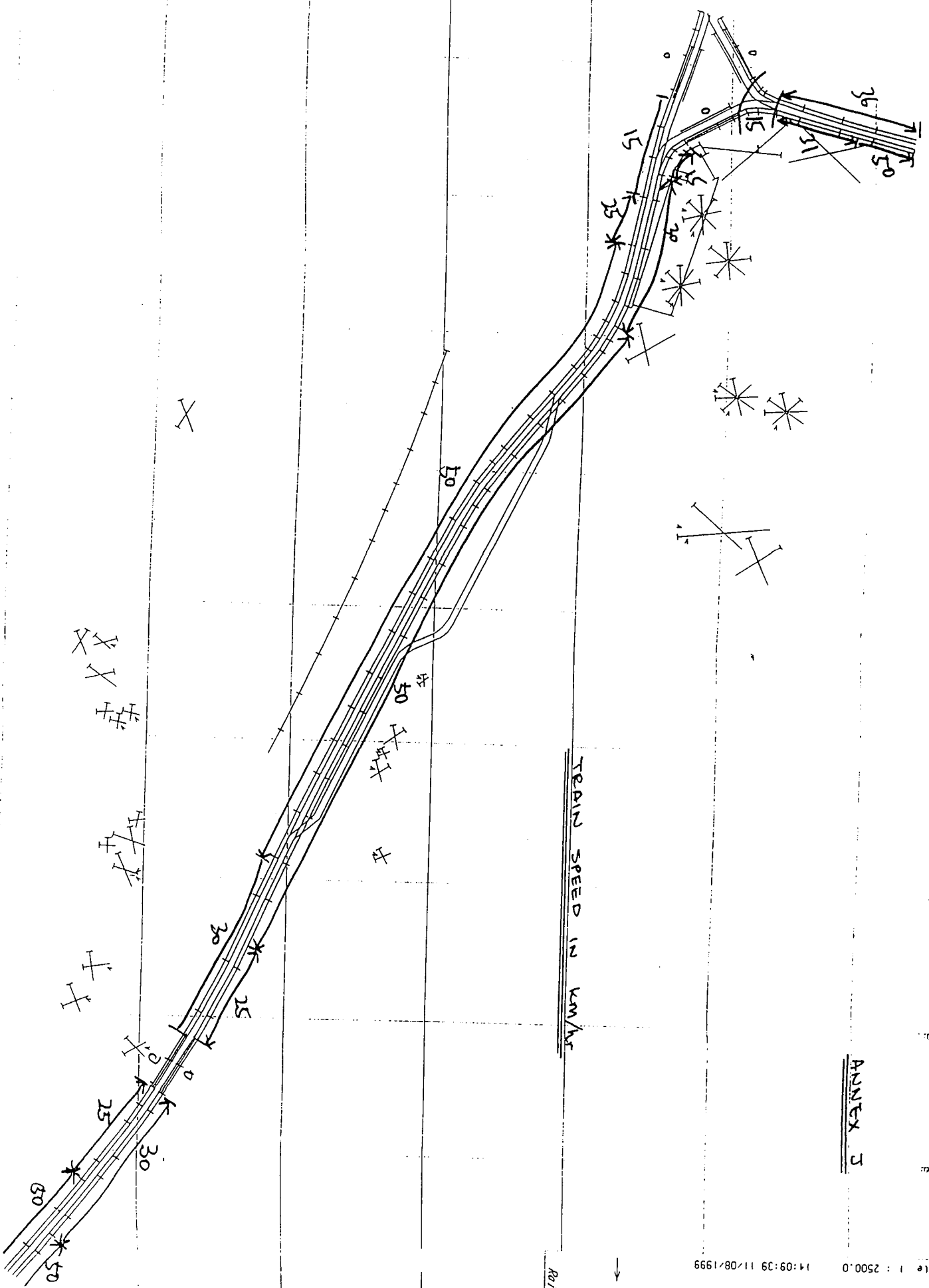
ANNEX 5

After 2003

Railnoise



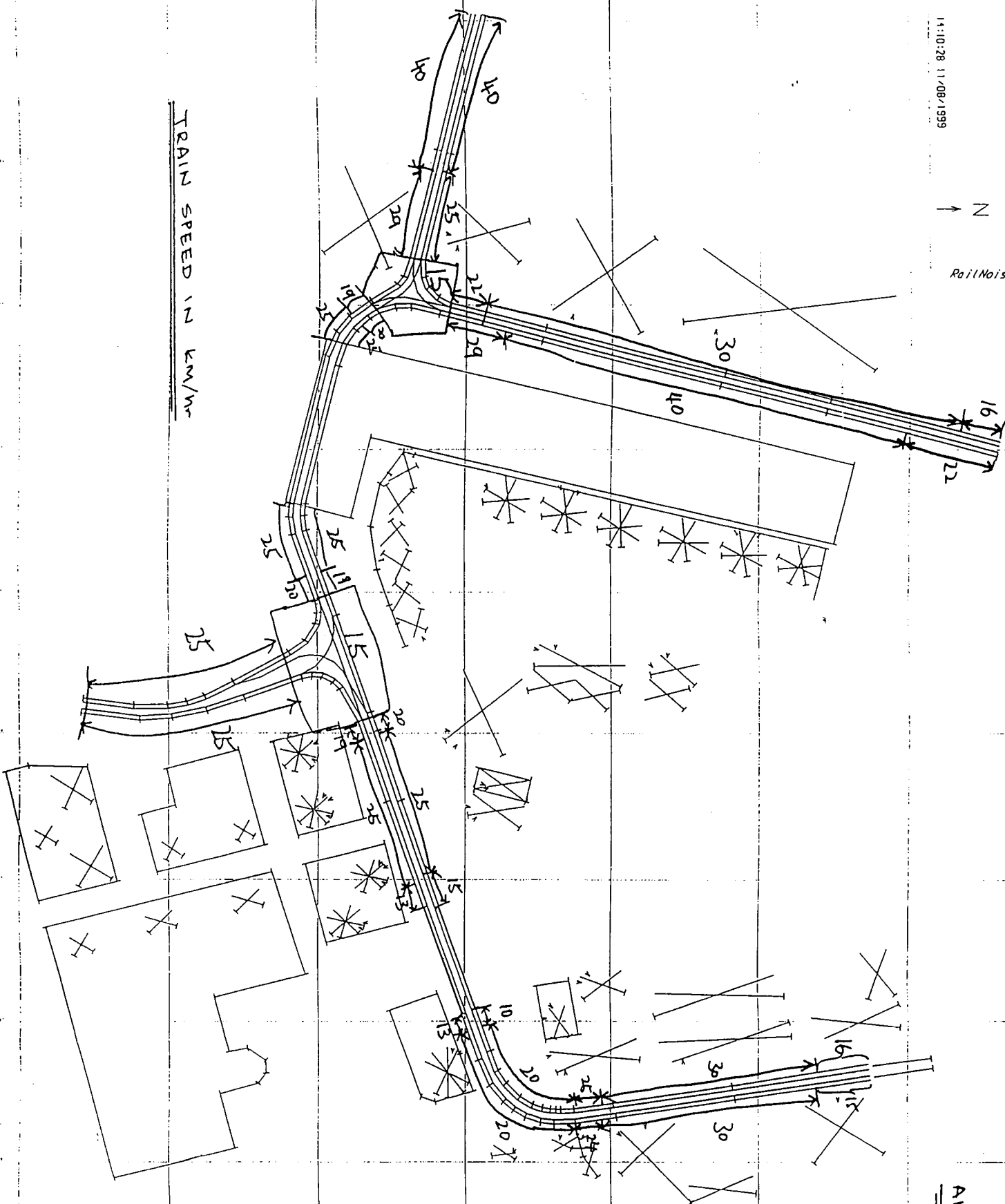
TRAIN SPEED IN km/h



N

Rail Noise

TRAIN SPEED IN km/hr



APPENDIX 5 – Updated Noise Calculations from West Rail (with 12-car trains)

Annex D																
West Rail - Modelling Locations, Representative NSRs and Results (LAeq, 30min - Night-time) for Design Year (12 car Train)																
Modelling Location No.	Reference No. in Annex A (Fig. no./NSR)	Easting (m)	Northing (m)	Datum Level (m)	Max. Building Height (m)	ASR	Criterion (Leq, 30min dB(A))	Description	Horizontal Distance to Nearest Track (m)	Structure Borne, Leq	Multi-Plenum System (MPS) Outboard Plenum Gap, Leq	Inboard Plenum Gap, Leq	Total, Leq	MPS + Additional Barriers Outboard Plenum Gap, Leq	Inboard Plenum Gap, Leq	Total, Leq
1	18/72	815191.2	828407.3	6	60	B	55	Police Station - Not NSR	85.2	31.8	38.4	48.0	48.5	38.4	48.0	48.5
1.1	18/72	815191.2	828407.3	6	60	B	55	Police Station - Not NSR	85.2	31.9	38.5	48.1	48.6	38.5	48.1	48.6
1.2	18/72	815191.2	828407.3	6	60	B	55	Police Station - Not NSR	85.2	32.0	34.0	48.1	48.4	34.0	48.1	48.4
1a		815095	828676	12.4	88	B	55	Tai Hing Garden	294.6	33.0	36.8	43.1	44.3	36.8	43.1	44.3
1b		815130	828919	12.4	88	B	55	Tai Hing Garden	276.6	33.7	37.2	43.5	44.8	37.2	43.5	44.8
1c		815165	828768	5	50	B	55		195.8	34.6	39.8	43.6	45.5	39.8	43.6	45.5
1d		815177	828989	12.4	88	B	55	Tai Hing Garden	259.4	34.5	37.2	44.2	45.4	37.2	44.2	45.4
1e		815195	828948	12.4	88	B	55	Tai Hing Garden	227.2	34.9	38.3	44.4	45.7	38.3	44.4	45.7
2		815451.1	828412.1	5	20	B	55	Primary School	144.1	37.3	31.6	36.9	40.7	30.5	35.7	40.1
3		815438.2	828470.8	5	22	B	55	Wing Wai Building	117.8	38.9	33.4	38.9	42.5	32.3	37.3	41.7
4		815446.7	828497.7	5	22	B	55	Wing Wai Building	119.7	39.1	33.6	39.3	42.8	32.3	37.6	41.9
5	18/69	815443.2	828543	5	22	B	55	Koon Hing Building	105.7	40.2	34.7	40.5	43.9	33.3	38.5	42.9
6	18/68	815452	828572	5	22	B	55	Man Cheung Building	107.5	40.3	34.8	41.0	44.2	33.3	38.5	43.0
7	18/66	815459.8	828646.2	5	25	B	55	Tai Hing Building	108.1	40.5	35.0	41.7	44.6	33.3	39.1	43.3
8		815387.8	828646.2	5	25	B	55	Lui Ming Choi Secondary Tech. School	27.7	46.8	45.3	51.5	53.5	40.5	48.5	51.1
9	18/63	815414.1	828694.6	5	11	B	55	Lui Ming Choi Secondary Tech. School	41.9	45.3	38.3	38.7	46.8	36.1	37.3	46.4
10	18/64	815274	828716.4	5	90	B	55	Tung Ming Building	77.2	37.4	44.5	51.3	52.3	44.5	51.3	52.3
10.1	18/64	815274	828716.4	5	90	B	55	Tung Ming Building	77.2	37.9	45.0	48.5	50.4	45.0	48.5	50.4
10.2	18/64	815274	828716.4	5	90	B	55	Tung Ming Building	77.2	38.5	45.4	47.8	50.1	45.4	47.8	50.1
10.3	18/64	815274	828716.4	5	90	B	55	Tung Ming Building	77.2	38.8	45.7	47.0	49.8	45.7	47.0	49.8
11	18/60	815395.1	828735.5	5	19	B	55	Ho King Building	13.8	50.2	47.1	55.1	56.8	42.7	47.6	52.6
12	18/59	815404.7	828757.6	5	19	B	55	Mai Kel Building	17.8	49.6	46.0	54.9	56.4	42.7	48.2	52.5
13	18/57	815459.8	828805	5	134	C	60	Eldo Court	57.2	39.8	46.4	47.8	50.5	45.6	47.8	50.3
13.1	18/57	815459.8	828805	5	134	C	60	Eldo Court	57.2	40.5	47.2	48.5	51.3	46.3	48.5	51.0
13.2	18/57	815459.8	828805	5	134	C	60	Eldo Court	57.2	41.3	48.0	49.2	52.0	46.3	49.2	51.4
13.3	18/57	815459.8	828805	5	134	C	60	Eldo Court	57.2	42.1	49.0	49.9	52.9	47.0	49.9	52.2
13.4	18/57	815459.8	828805	5	134	C	60	Eldo Court	57.2	43.0	45.4	50.1	52.0	43.9	50.1	51.7
13.5	18/57	815459.8	828805	5	134	C	60	Eldo Court	57.2	43.7	42.0	50.4	51.7	40.8	50.4	51.6
14	18/57	815555.3	828848.5	9	134	C	60	Eldo Court	133.9	38.3	44.2	46.2	48.7	42.6	46.2	48.2
14.1	18/57	815555.3	828848.5	9	134	C	60	Eldo Court	133.9	38.6	43.4	46.4	48.6	42.4	46.4	48.3
14.2	18/57	815555.3	828848.5	9	134	C	60	Eldo Court	133.9	39.0	41.3	46.4	48.1	40.5	46.4	48.0
14.3	18/57	815555.3	828848.5	9	134	C	60	Eldo Court	133.9	39.3	39.4	46.5	47.9	38.6	46.5	47.8
14.4	18/57	815555.3	828848.5	9	134	C	60	Eldo Court	133.9	39.6	36.9	46.6	47.8	36.0	46.6	47.7
14.5	18/57	815555.3	828848.5	9	134	C	60	Eldo Court	133.9	39.7	35.2	46.3	47.4	34.4	46.1	47.2
15	18/58	815472.3	828859.3	9	134	C	60	Hong Lai Garden	52.2	39.7	45.6	47.5	50.1	45.2	47.5	49.9
15.1	18/58	815472.3	828859.3	9	134	C	60	Hong Lai Garden	52.2	40.4	46.2	48.0	50.6	45.5	48.0	50.4
15.2	18/58	815472.3	828859.3	9	134	C	60	Hong Lai Garden	52.2	41.1	46.8	48.6	51.2	46.1	48.6	51.0
15.3	18/58	815472.3	828859.3	9	134	C	60	Hong Lai Garden	52.2	41.9	47.5	49.1	51.8	46.1	49.1	51.4
15.4	18/58	815472.3	828859.3	9	134	C	60	Hong Lai Garden	52.2	42.7	47.5	49.0	51.9	46.6	49.0	51.6
15.5	18/58	815472.3	828859.3	9	134	C	60	Hong Lai Garden	52.2	43.5	42.4	49.0	50.8	41.6	49.0	50.7
16	18/49	815228.2	828883.5	12.4	88	B	55	Tai Hing Garden	172.2	35.8	40.3	45.2	46.8	40.3	45.2	46.8
16.1	18/49	815228.2	828883.5	12.4	88	B	55	Tai Hing Garden	172.2	36.0	40.4	45.1	46.7	40.4	45.1	46.7
16.2	18/49	815228.2	828883.5	12.4	88	B	55	Tai Hing Garden	172.2	36.2	40.4	44.6	46.4	40.4	44.6	46.4
16.3	18/49	815228.2	828883.5	12.4	88	B	55	Tai Hing Garden	172.2	36.3	40.0	43.1	45.4	40.0	43.1	45.4

Annex D																
West Rail - Modelling Locations, Representative NSRs and Results (LAeq, 30min - Night-time) for Design Year (12 car Train)																
Modelling Location No.	Reference No. in Annex A (Fig. no./NSR)	Easting (m)	Northing (m)	Datum Level (m)	Max. Building Height (m)	ASR	Criterion (Leq,30min dB(A))	Description	Horizontal Distance to Nearest Track (m)	Structure-Borne, Leq	Multi-Plenum System (MPS) Outboard Plenum Gap, Leq	Inboard Plenum Gap, Leq	Total, Leq	MPS + Additional Barriers Outboard Plenum Gap, Leq	Inboard Plenum Gap, Leq	Total, Leq
17	18/49	815268.3	828925.4	12.4	88	B	55	Tai Hing Garden	150.8	36.6	40.6	45.9	47.4	40.6	45.9	47.4
17.1	18/49	815268.3	828925.4	12.4	88	B	55	Tai Hing Garden	150.8	36.9	40.6	45.7	47.3	40.6	45.7	47.3
17.2	18/49	815268.3	828925.4	12.4	88	B	55	Tai Hing Garden	150.8	37.1	40.5	45.6	47.2	40.5	45.6	47.2
17.3	18/49	815268.3	828925.4	12.4	88	B	55	Tai Hing Garden	150.8	37.2	40.5	43.5	45.9	40.5	43.5	45.9
18	18/50	815340.4	828936.9	8.5	20	C	60	Gov. Office - Not NSR	88.4	39.9	41.0	44.9	47.3	41.0	44.9	47.3
19	18/52	815579.1	828951.7	9	14	C	60	Tuen Mun Clinic	122.5	40.4	34.0	41.5	44.4	33.5	41.4	44.3
20	18/53	815545.8	828957.4	9	14	C	60	Tuen Mun Clinic	89.3	41.9	35.4	42.6	45.7	34.9	42.5	45.6
21	18/49	815281.1	828959.2	12.4	88	B	55	Tai Hing Garden	151.8	36.8	40.2	46.0	47.4	40.2	46.0	47.4
21.1	18/49	815281.1	828959.2	12.4	88	B	55	Tai Hing Garden	151.8	37.1	40.0	45.9	47.3	40.0	45.9	47.3
21.2	18/49	815281.1	828959.2	12.4	88	B	55	Tai Hing Garden	151.8	37.3	39.9	45.8	47.3	39.9	45.8	47.3
21.3	18/49	815281.1	828959.2	12.4	88	B	55	Tai Hing Garden	151.8	37.4	39.7	43.4	45.6	39.7	43.4	45.6
22	18/49	815262.9	828995.4	12.4	88	B	55	Tai Hing Garden	182.3	36.3	39.0	45.6	46.9	39.0	45.6	46.9
22.1	18/49	815262.9	828995.4	12.4	88	B	55	Tai Hing Garden	182.3	36.5	38.8	45.5	46.8	38.8	45.5	46.8
22.2	18/49	815262.9	828995.4	12.4	88	B	55	Tai Hing Garden	182.3	36.6	38.5	45.1	46.4	38.5	45.1	46.4
22.3	18/49	815262.9	828995.4	12.4	88	B	55	Tai Hing Garden	182.3	36.7	38.2	42.5	44.6	38.2	42.5	44.6
23	18/49	815698	829149.3	5.3	9	C	60	Petrol-station	161.5	39.0	32.8	40.2	43.1	32.5	40.2	43.1
24	18/45	815463.2	829160.8	14	100	C	60	Residential Development by Sun Hung Kai	59.3	40.4	47.3	51.3	53.0	47.3	51.3	53.0
24.1	18/45	815463.2	829160.8	14	100	C	60	Residential Development by Sun Hung Kai	59.3	41.2	48.2	52.1	53.8	48.2	52.1	53.8
24.2	18/45	815463.2	829160.8	14	100	C	60	Residential Development by Sun Hung Kai	59.3	42.0	49.1	53.0	54.7	49.1	53.0	54.7
24.3	18/45	815463.2	829160.8	14	100	C	60	Residential Development by Sun Hung Kai	59.3	42.9	50.0	53.8	55.6	50.0	53.8	55.6
24.4	18/45	815463.2	829160.8	14	100	C	60	Residential Development by Sun Hung Kai	59.3	43.6	43.0	54.3	54.9	43.0	54.3	54.9
25	18/33	815524.7	829282.6	6.7	110	C	60	Affluence Garden	37.7	40.8	48.4	52.2	53.9	48.4	52.2	53.9
25.1	18/33	815524.7	829282.6	6.7	110	C	60	Affluence Garden	37.7	41.7	49.4	53.1	54.9	49.4	53.1	54.9
25.2	18/33	815524.7	829282.6	6.7	110	C	60	Affluence Garden	37.7	42.8	50.5	54.2	56.0	50.5	54.2	56.0
25.3	18/33	815524.7	829282.6	6.7	110	C	60	Affluence Garden	37.7	43.9	51.8	55.3	57.1	51.8	55.3	57.1
25.4	18/33	815524.7	829282.6	6.7	110	C	60	Affluence Garden	37.7	45.2	52.3	56.5	58.1	52.3	56.5	58.1
26	18/34	815677.2	829336.9	5.3	25	B	55	Prevocational school	91.9	41.3	39.0	51.7	52.3	38.9	51.7	52.3
27	18/33	815544.2	829360.8	10.5	110	C	60	Affluence Garden	38.8	40.3	47.9	51.9	53.6	47.9	51.9	53.6
27.1	18/33	815544.2	829360.8	10.5	110	C	60	Affluence Garden	38.8	41.1	48.8	52.7	54.4	48.8	52.7	54.4
27.2	18/33	815544.2	829360.8	10.5	110	C	60	Affluence Garden	38.8	42.0	49.8	53.6	55.3	49.8	53.6	55.3
27.3	18/33	815544.2	829360.8	10.5	110	C	60	Affluence Garden	38.8	43.1	51.0	54.7	56.4	51.0	54.7	56.4
27.4	18/33	815544.2	829360.8	10.5	110	C	60	Affluence Garden	38.8	44.3	52.0	55.8	57.5	52.0	55.8	57.5
28	18/33	815557.8	829403	6.7	110	C	60	Affluence Garden	36.4	40.2	47.9	51.9	53.6	47.9	51.9	53.6
28.1	18/33	815557.8	829403	6.7	110	C	60	Affluence Garden	36.4	41.1	48.8	52.8	54.5	48.8	52.8	54.5
28.2	18/33	815557.8	829403	6.7	110	C	60	Affluence Garden	36.4	42.0	49.8	53.7	55.4	49.8	53.7	55.4
28.3	18/33	815557.8	829403	6.7	110	C	60	Affluence Garden	36.4	43.1	51.0	54.8	56.5	51.0	54.8	56.5
28.4	18/33	815557.8	829403	6.7	110	C	60	Affluence Garden	36.4	44.3	52.1	55.9	57.6	52.1	55.9	57.6
29	18/32	815567.9	829469	6.8	75	C	60	Staff Quarter (TM Hospital)	43.4	41.2	49.0	53.0	54.7	49.0	53.0	54.7
29.1	18/32	815567.9	829469	6.8	75	C	60	Staff Quarter (TM Hospital)	43.4	42.2	50.0	54.0	55.7	50.0	54.0	55.7
29.2	18/32	815567.9	829469	6.8	75	C	60	Staff Quarter (TM Hospital)	43.4	43.2	50.9	55.0	56.6	50.9	55.0	56.6
30	18/32	815589.7	829507.1	6.8	75	C	60	Staff Quarter (TM Hospital)	32.1	41.3	49.1	53.2	54.8	49.1	53.2	54.8
30.1	18/32	815589.7	829507.1	6.8	75	C	60	Staff Quarter (TM Hospital)	32.1	42.4	50.3	54.3	56.0	50.3	54.3	56.0
30.2	18/32	815589.7	829507.1	6.8	75	C	60	Staff Quarter (TM Hospital)	32.1	43.7	51.6	55.6	57.3	51.6	55.6	57.3
31	18/32	815604.4	829540.3	6.8	75	C	60	Staff Quarter (TM Hospital)	26.3	41.3	49.2	53.2	54.9	49.2	53.2	54.9

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West Rail - Modelling Locations, Representative NSRs and Results (LAeq, 30min - Night-time) for Design Year (12 car Train)																	
Modelling Location No.	Reference No. in Annex A (Fig. no./NSR)	Easting (m)	Northing (m)	Datum Level (m)	Max. Building Height (m)	ASR	Criterion (Leq,30min dB(A))	Description	Horizontal Distance to Nearest Track (m)	Structure-Borne, Leq	Multi-Plenum System (MPS)			MPS + Additional Barriers		Total, Leq	
											Outboard Plenum Gap, Leq	Inboard Plenum Gap, Leq	Total, Leq	Outboard Plenum Gap, Leq	Inboard Plenum Gap, Leq		
31.1	18/32	815604.4	829540.3	6.8	75	C	60	Staff Quarter (TM Hospital)	26.3	42.5	50.4	54.4	56.1	50.4	54.4	56.1	
31.2	18/32	815604.4	829540.3	6.8	75	C	60	Staff Quarter (TM Hospital)	26.3	43.9	51.8	55.8	57.5	51.8	55.8	57.5	
32	17/27	815631.6	829663.5	6.8	30	C	60	Tuen Mun Hospital	31.4	43.8	51.7	55.5	57.2	51.7	55.5	57.2	
33	17/27	815657.2	829753	8.2	30	C	60	Tuen Mun Hospital	29.6	44.1	52.1	55.6	57.4	52.1	55.6	57.4	
34	17/26	815904.7	829827	13.1	40	C	60	Brilliant Garden	167.0	37.3	35.6	48.3	48.8	35.5	48.3	48.8	
34.1	17/26	815904.7	829827	13.1	40	C	60	Brilliant Garden	167.0	37.5	34.2	47.3	47.9	34.1	47.3	47.9	
35	17/27	815672.1	829841.3	8.2	30	C	60	Tuen Mun Hospital	41.3	43.6	51.5	54.2	56.3	51.5	54.2	56.3	
36	17/26	815918.3	829853.9	9.1	40	C	60	Brilliant Garden	166.2	37.2	35.1	48.0	48.5	35.0	48.0	48.5	
36.1	17/26	815918.3	829853.9	9.1	40	C	60	Brilliant Garden	166.2	37.3	33.6	46.6	47.3	33.6	46.6	47.3	
37	17/25	815732.5	830048.9	12.5	25	C	60	Tuen Mun Gov. Primary School	70.1	41.0	43.0	48.6	50.2	43.0	48.6	50.2	
38	17/22	815945.9	830050.7	5.5	9	C	60	Village House	104.6	37.5	33.7	41.1	43.2	33.6	41.1	43.2	
39	17/18	815737.3	830111.2	8	79.6	C	60	Siu Hong Court	91.0	38.3	46.0	47.5	50.1	46.0	47.5	50.1	
39.1	17/18	815737.3	830111.2	8	79.6	C	60	Siu Hong Court	91.0	38.8	44.0	47.4	49.4	44.0	47.4	49.4	
39.2	17/18	815737.3	830111.2	8	79.6	C	60	Siu Hong Court	91.0	39.3	41.5	47.2	48.8	41.5	47.2	48.8	
40	17/18	816008.2	830117.5	9.6	4	C	60	Village House	145.2	36.4	32.3	39.3	41.6	32.1	39.2	41.6	
41	17/18	815763.7	830155	8	79.6	C	60	Siu Hong Court	79.7	37.9	45.6	48.1	50.3	45.6	48.1	50.3	
41.1	17/18	815763.7	830155	8	79.6	C	60	Siu Hong Court	79.7	38.5	44.8	47.3	49.6	44.8	47.3	49.6	
41.2	17/18	815763.7	830155	8	79.6	C	60	Siu Hong Court	79.7	38.9	41.7	47.1	48.7	41.7	47.1	48.7	
42	17/18	816022.2	830191.9	8	79.6	C	60	Residential uses in Fu Tai	139.1	36.5	38.8	45.1	46.5	38.7	45.1	46.5	
43	17/18	815774.6	830196.5	12	90	C	60	Siu Hong Court	80.3	36.9	44.6	48.0	49.9	44.6	48.0	49.9	
43.1	17/18	815774.6	830196.5	12	90	C	60	Siu Hong Court	80.3	37.4	45.0	47.4	49.6	45.0	47.4	49.6	
43.2	17/18	815774.6	830196.5	12	90	C	60	Siu Hong Court	80.3	37.8	42.2	47.1	48.7	42.1	47.1	48.7	
43.3	17/18	815774.6	830196.5	12	90	C	60	Siu Hong Court	80.3	38.2	40.3	46.8	48.1	40.3	46.8	48.1	
44	17/18	815784.9	830231.6	8	79.6	C	60	Siu Hong Court	79.6	36.7	44.3	47.8	49.6	44.3	47.8	49.6	
44.1	17/18	815784.9	830231.6	8	79.6	C	60	Siu Hong Court	79.6	37.1	43.4	47.3	49.1	43.3	47.3	49.0	
44.2	17/18	815784.9	830231.6	8	79.6	C	60	Siu Hong Court	79.6	37.5	40.3	47.1	48.3	40.3	47.1	48.3	
45	17/16	816029	830329.1	10.8	6	C	60	Village House	109.7	38.9	34.7	39.6	43.0	34.5	39.5	42.9	
46	17/15	816012.5	830357.7	7.6	10	C	60	WSD Quarter	86.2	40.1	36.1	42.3	45.0	35.9	42.3	44.9	
47	17/14	816071.2	830391.4	15	10	C	60	Village House	133.9	39.1	34.8	41.5	44.0	34.5	41.4	43.9	
48	17/13	815833.1	830406.3	8	79.6	C	60	Siu Hong Court	79.0	35.2	41.8	48.8	49.8	41.8	48.8	49.8	
48.1	17/13	815833.1	830406.3	8	79.6	C	60	Siu Hong Court	79.0	35.4	41.8	48.8	49.8	41.8	48.8	49.8	
48.2	17/13	815833.1	830406.3	8	79.6	C	60	Siu Hong Court	79.0	35.6	38.9	48.7	49.3	38.8	48.6	49.2	
49	17/13	816034.1	830427.5	15	10	C	60	Village House	88.8	41.0	37.6	42.5	45.6	37.5	42.4	45.5	
50	17/13	815842	830451.7	8	79.6	C	60	Siu Hong Court	82.3	35.2	42.0	50.3	51.0	41.9	50.3	51.0	
50.1	17/13	815842	830451.7	8	79.6	C	60	Siu Hong Court	82.3	35.5	40.4	48.7	49.5	40.4	48.7	49.5	
50.2	17/13	815842	830451.7	8	79.6	C	60	Siu Hong Court	82.3	35.7	38.2	48.5	49.1	38.2	48.4	49.0	
51	17/13	815867	830502	8	10	C	60	Village House	71.5	36.9	35.1	46.5	47.2	35.0	46.5	47.2	
52	17/13	815807.1	830538	8	79.6	C	60	Siu Hong Court	139.0	34.7	37.4	47.2	47.8	37.3	47.1	47.8	
52.1	17/13	815807.1	830538	8	79.6	C	60	Siu Hong Court	139.0	34.9	35.9	46.9	47.5	35.8	46.8	47.4	
52.2	17/13	815807.1	830538	8	79.6	C	60	Siu Hong Court	139.0	35.0	34.3	46.4	46.9	34.2	46.4	46.9	
53	17/12	816150.1	830573.2	6	6	C	60	Village House	161.3	40.3	33.8	37.7	42.8	33.5	37.4	42.7	
54	17/12	815828.2	830632.6	12.7	25	C	60	Y.T.T.M College	150.5	35.4	32.7	45.1	45.8	32.5	45.0	45.7	
55	17/7	815842.1	830763.7	5.4	8	C	60	Village House (San Hing Tsuen)	192.7	35.3	30.5	39.8	41.5	30.1	39.7	41.4	
56	17/7	816031.7	830794.2	7	3	C	60	Village House (San Hing Tsuen)	34.6	43.2	34.3	44.7	47.3	34.1	44.6	47.2	

Annex D

West Rail - Modelling Locations, Representative NSRs and Results (LAeq, 30min - Night-time) for Design Year (12 car Train)

Modelling Location No.	Reference No. in Annex A (Fig. no./NSR)	Easting (m)	Northing (m)	Datum Level (m)	Max. Building Height (m)	ASR	Criterion (Leq, 30min dB(A))	Description	Horizontal Distance to Nearest Track (m)	Structure-Borne, Leq	Multi-Plenum System (MPS) Outboard Plenum Gap, Leq	Inboard Plenum Gap, Leq	Total, Leq	MPS + Additional Outboard Plenum Gap, Leq	Inboard Plenum Gap, Leq	Barriers Total, Leq
57		815966.2	830818.8	7	3	C	60	Village House (San Hing Tsuen)	104.3	38.4	32.8	41.0	43.3	32.5	40.9	43.2
58		815946.8	830853.9	7	3	C	60	Village House (San Hing Tsuen)	136.9	37.4	32.3	40.6	42.7	31.9	40.4	42.6
59		815980	830866.8	7	3	C	60	Village House (San Hing Tsuen)	112.5	38.4	33.2	41.5	43.6	32.8	41.3	43.5
60		815888.1	830874.8	7	3	C	60	Village House (San Hing Tsuen)	198.9	35.8	30.5	39.7	41.5	30.0	39.5	41.4
61		815897.1	830891.6	7	3	C	60	Village House (San Hing Tsuen)	198.0	36.0	30.6	39.8	41.7	30.1	39.6	41.5
62	17/5	816240.1	830891.8	4.5	9	C	60	Village House (San Hing Tsuen)	107.7	43.1	36.6	40.1	45.5	36.2	39.9	45.4
63	17/1	816228.4	830968.7	7	3	C	60	Chik Yuen Garden	63.6	45.9	38.9	41.0	47.7	38.7	40.9	47.7
64		815991.3	831021.3	9	3	C	60	Village House (San Hing Tsuen)	168.7	37.4	32.7	41.4	43.3	32.2	41.2	43.1
65		816283.9	831069	6.5	11	C	60	Building next to Tuen Mun San Tsuen	66.8	45.9	40.4	43.7	48.7	40.2	43.5	48.6
66		816315.6	831073.4	7	9	C	60	Tuen Mun San Tsuen	92.8	44.4	38.7	42.3	47.2	38.4	42.0	47.8
67		816194.3	831083.6	6.7	3	C	60	Premises to the west of Tuen Mun San Tsuen	15.0	48.3	39.8	45.8	50.6	39.6	45.8	50.6
69		816013	831095.4	7	6	C	60	Premises to the North of San Hing Tsuen	181.5	37.4	32.7	41.5	43.3	32.3	41.3	43.2
70		816303.9	831124.2	8.1	6	C	60	Premises to the north of Tuen Mun San Tsuen	58.7	46.5	40.6	43.1	48.8	40.4	42.9	48.8
71		816148.2	831132.9	6.7	3	C	60	Premises to the west of Tuen Mun San Tsuen	78.8	41.5	35.5	44.4	46.6	35.2	44.3	46.5
72		816045	831160.7	7.2	3	C	60	Premises to the south of Tuen Tsz Wai	183.0	37.7	32.8	41.3	43.3	32.3	41.1	43.1
73	16/22	816346.7	831182	10.6	9	C	60	Nei Ming	69.7	45.7	40.9	44.9	49.1	40.6	44.6	48.9
73a		816233.4	831189.9	7	9	C	60	Premises to the south of Tsing Chuen Wai	30.0	46.0	40.3	48.2	50.7	40.1	48.1	50.6
74		816117.5	831195.4	7	9	C	60	Premises to the south of Tuen Tsz Wai	135.1	39.3	34.6	43.7	45.4	34.2	43.5	45.3
75	16/23	816202.2	831210.2	7	3	C	60	Lee Ka Yuen	67.0	42.6	36.9	45.0	47.4	36.6	44.9	47.3
76	16/20	816444.5	831251.3	10.6	25	C	60	Lau Kam Lung Secondary School	123.9	43.1	39.8	47.1	49.1	39.1	46.2	48.5
76a		816325.7	831256	8.5	9	C	60	Premises to the south of Tsing Chuen Wai	16.6	52.1	46.0	47.1	54.0	46.0	47.1	54.0
76b		816351.6	831293.8	8.5	9	C	60	Premises to the south of Tsing Chuen Wai	21.9	50.9	45.7	47.7	53.4	45.5	47.6	53.3
76c		816380	831331	8.5	9	C	60	Premises to the south of Tsing Chuen Wai	20.4	51.2	46.2	49.0	54.0	46.1	48.8	54.0
78		816398	831387	8.5	3	C	60	Premises next to Sing Sing Metal	19.5	51.4	43.8	44.6	52.8	43.6	44.4	52.8
79		816365.5	831444.2	8	6	C	60	Kan Tak Storage	31.5	47.4	41.7	48.5	51.5	41.5	48.5	51.5
80	16/17	816508	831459.3	8.5	12	C	60	Lei Yuen	84.9	45.0	40.7	46.7	49.5	39.7	45.9	49.0
81	16/16	816507.9	831496.4	8.5	10	C	60	Jiling Tak School	68.8	46.0	41.6	47.4	50.4	40.6	46.6	49.9
81a		816348.2	831510.4	9.1	9	C	60	Tsing Chuen Wai	76.9	43.6	39.2	48.2	49.9	38.8	48.0	49.7
82	16/18	816317.2	831529.5	9.5	9	B	55	Tsing Chuen Wai	113.1	41.9	37.5	46.5	48.2	36.8	46.2	47.9
82a		816377.5	831592.4	8.2	9	C	60	Tsing Chuen Wai	85.8	43.4	39.0	47.7	49.5	38.4	47.5	49.3
83	16/18	816289.9	831621.8	8	9	B	55	Tsing Chuen Wai	177.7	40.0	35.3	44.2	46.0	34.3	43.7	45.6
83a		816429.6	831641.1	8	9	B	55	Tsing Chuen Wai	58.2	45.4	41.1	49.6	51.4	40.6	49.4	51.2
84		816529.8	831661.1	8	9	B	55	Premises to the west of Ken Yuen	21.4	50.9	47.9	53.9	56.3	44.5	49.9	54.0
84a		816504.1	831588.9	8.5	9	B	55	Premises to the west of Ken Yuen	27.0	50.0	46.4	52.0	54.8	45.0	50.9	54.1
85		816567.7	831691.9	8	9	B	55	Premises to the west of Ken Yuen	43.6	47.9	44.2	50.4	53.0	41.0	46.9	50.9
86		816386.4	831728	8.8	3	B	55	Premises to the north of Tsing Chuen Wai	132.8	41.7	36.9	45.0	47.1	35.9	44.4	46.6
86a		816480.8	831730.3	8.5	9	B	55	Premises to the north of Tsing Chuen Wai	47.3	46.3	42.7	51.4	53.0	42.2	51.2	52.8
87		816672.1	831767.9	8.5	9	B	55	Premises to the west of Yee Kee Yuen	108.5	43.8	39.4	46.3	48.8	36.4	42.8	46.8
87a		816609.8	831769.1	8.5	9	B	55	Premises to the south-west of Yick Yuen Tsuen	51.1	47.1	43.6	50.5	52.7	40.0	46.5	50.3
88		816481.5	831774.6	10	3	B	55	Premises to the north of Tsing Chuen Wai	64.6	45.0	40.6	48.2	50.4	39.6	47.7	50.0
89		816530.6	831807.5	10	3	B	55	Premises to the north of Tsing Chuen Wai	32.9	48.1	43.7	50.8	53.2	42.9	50.3	52.8
90	16/11	816697.1	831837.9	8	12	B	55	Church	103.2	44.0	40.1	47.5	49.6	36.7	43.5	47.2
90a		816644	831881.1	8	3	B	55	Premises to the south-west of Yick Yuen Tsuen	37.2	48.6	43.7	48.8	52.3	40.2	45.5	50.7
90b		816569.8	831883.3	8	3	B	55	Premises to the south-west of Yick Yuen Tsuen	27.6	49.1	44.0	50.3	53.3	42.5	49.2	52.6

Annex D

West Rail - Modelling Locations, Representative NSRs and Results (LAeq, 30min - Night-time) for Design Year (12 car Train)

Modelling Location No.	Reference No. in Annex A (Fig. no./NSR)	Easting (m)	Northing (m)	Datum Level (m)	Max. Building Height (m)	ASR	Criterion (Leq,30min dB(A))	Description	Horizontal Distance to Nearest Track (m)	Structure-Borne, Leq	Multi-Plenum System (MPS)			MPS + Additional Barriers		
											Outboard Plenum Gap, Leq	Inboard Plenum Gap, Leq	Total, Leq	Outboard Plenum Gap, Leq	Inboard Plenum Gap, Leq	Total, Leq
91		816485.8	831944.4	12.1	3	B	55	Premises to the south-west of Yick Yuen Tsuen	129.1	42.2	38.2	46.2	48.1	36.4	44.5	46.9
92		816678.2	831957.4	8.8	9	B	55	Premises to the south of Yick Yuen Tsuen	37.7	48.4	45.9	53.4	55.1	41.9	49.0	52.2
92a		816724	832064	8.8	9	B	55	Yick Yuen Tsuen	36.6	48.5	46.1	53.9	55.5	41.7	48.7	52.0
93		816599.4	831967.7	10	6	B	55	Premises to the south of Yick Yuen Tsuen	34.6	48.1	45.1	53.3	54.9	41.9	49.8	52.4
93a		816575.6	832043.5	12	9	B	55	Premises to the south-west of Yick Yuen Tsuen	86.9	44.2	41.1	49.8	51.3	38.4	46.5	48.9
96		816640.4	832072.8	9	3	B	55	Premises to the south-west of Yick Yuen Tsuen	39.4	47.8	43.4	50.1	52.7	40.0	46.8	50.7
96b		816653.9	832091.4	8.6	9	B	55	Premises to the south-west of Yick Yuen Tsuen	34.6	48.3	45.9	54.5	55.9	41.7	50.1	52.7
97		816733.1	832101.4	8.8	6	B	55	Yick Yuen Tsuen	29.8	49.5	46.2	52.9	55.1	41.5	47.4	52.0
99		816739.1	832142.9	8.8	9	B	55	Yick Yuen Tsuen	18.6	51.3	50.8	62.4	63.0	44.3	51.6	54.9
100a		816665.1	832184	8.6	6	B	55	Premises to the west of Yick Yuen Tsuen	61.6	46.0	42.3	49.6	51.7	39.1	45.8	49.3
102		816817.3	832192.4	8.8	6	B	55	Yick Yuen Tsuen	70.2	45.8	41.6	48.7	51.0	38.3	45.2	48.9
102a		816693.1	832227.6	8.6	9	B	55	Premises to the west of Yick Yuen Tsuen	53.7	46.7	43.6	51.7	53.4	40.1	47.2	50.4
104a		816902.6	832397.7	8.7	6	B	55	Premises to the north of Wing Fat Fishery	65.4	46.1	42.1	49.2	51.5	39.4	46.3	49.6
105		816645.6	832408.4	9	3	B	55	Premises to the north-west of Siu Kwong Yuen	170.1	41.6	37.7	44.5	46.9	35.2	42.2	45.4
105a		816911.7	832443.4	8.5	3	B	55	Premises to the north of Yick Yuen Tsuen	55.3	46.8	42.2	48.6	51.4	39.0	45.2	49.5
106a		816908.3	832465	8.7	6	B	55	Premises to the north of Wing Fat Fishery	43.5	47.9	44.1	51.2	53.4	40.4	47.0	50.9
106b		816923.4	832490.4	8.7	6	B	55	Premises to the north of Wing Fat Fishery	47.1	47.5	43.7	50.8	53.0	39.9	46.3	50.4
106c		816948.4	832509.8	8.7	6	B	55	Premises to the north of Wing Fat Fishery	62.1	46.3	42.3	49.4	51.7	38.5	45.0	49.1
109a		816978.6	832558.8	9	6	B	55	Premises to the south-west of Tin Sam	70.0	45.8	41.7	49.0	51.2	37.9	44.4	48.6
110a		816788.5	832571.1	9	3	B	55	Village House	104.9	43.9	39.9	46.5	49.0	37.1	43.4	47.1
111a		816994	832605.6	9	9	B	55	Premises to the south-west of Tin Sam	65.2	46.1	42.6	50.6	52.4	38.3	44.8	48.9
114a		817001.4	832635.8	8.4	10	B	55	Premises to the south-west of Tin Sam	59.8	46.4	43.1	51.3	53.0	38.6	45.2	49.2
115a		816799.6	832679.3	8.4	3	B	55	Premises to the south-west of Tin Sam	138.4	42.7	38.3	45.0	47.6	36.1	42.4	46.0
118a		816847.5	832699.7	8.4	3	B	55	Premises to the south-west of Tin Sam	102.8	44.1	39.6	46.3	48.9	37.3	43.7	47.4
118b		817021.4	832727.4	7.9	9	B	55	Premises to the south-west of Tin Sam	41.2	48.1	44.9	52.9	54.6	39.7	46.3	50.7
118c		816858.8	832734.2	8.4	3	B	55	Premises to the south-west of Tin Sam	106.4	43.9	39.5	46.1	48.7	37.4	43.8	47.3
120		817100	832763	7.8	6	B	55	Premises to the south-west of Tin Sam	98.7	44.2	39.6	47.0	49.3	36.4	43.1	47.1
122		817039.6	832770.4	7.8	6	B	55	Premises to the south-west of Tin Sam	40.5	48.2	44.1	51.1	53.4	39.6	45.8	50.5
122a		816881.1	832773.7	8.6	3	B	55	Premises to the west of Tin Sam	101.9	44.1	39.8	46.4	49.0	37.9	44.6	47.8
123a		816929.4	832817.1	8.6	3	B	55	Premises to the west of Tin Sam	75.2	45.5	41.1	47.6	50.2	39.4	46.3	49.4
125		816933.7	832866.7	9	3	B	55	Premises to the west of Tin Sam	91.3	44.7	40.4	46.9	49.5	38.8	45.6	48.7
126		817181.6	832867.3	8.1	6	B	55	Tin Sam Tsuen	131.3	43.0	37.9	45.7	48.0	35.4	43.1	46.4
127		816941.9	832903.3	9	3	B	55	Premises to the west of Tin Sam	98.6	44.4	40.0	46.6	49.2	38.5	45.2	48.3
128	15/7	817183.4	832908	7.1	10	B	55	Tin Sam Tsuen	116.6	43.5	38.9	46.9	49.0	36.7	44.5	47.4
128a		817198.2	832925.2	7	10	B	55	Tin Sam Tsuen	123.2	43.3	38.6	46.6	48.7	36.5	44.5	47.3
129a		817002.8	832947.3	8.8	9	B	55	Premises to the west of Tin Sam	60.5	46.6	44.3	51.2	53.1	42.5	49.7	52.0
129b		816969.7	832955.1	7.1	3	B	55	Premises to the west of Tin Sam	94.0	44.7	39.9	46.1	49.0	38.3	44.6	48.1
130		817026.7	832960.6	8	9	B	55	Premises to the west of Tin Sam	44.0	48.2	45.7	52.4	54.4	43.4	50.2	52.8
132		817037.6	833083.1	8.2	3	B	55	Premises to the north-west of Tin Sam	51.2	47.6	42.6	48.3	51.6	40.4	46.0	50.3
133a		817171.3	833036.8	6.7	6	B	55	Premises to the north of Tin Sam	53.5	47.0	41.9	48.7	51.5	40.7	47.8	50.9
134		817206.1	833040.7	8	3	B	55	Premises to the north of Tin Sam	83.8	45.1	39.7	46.7	49.5	38.4	45.7	48.8
134a		817072.6	833045.1	6.8	9	B	55	Premises to the north of Tin Sam	36.1	48.9	45.4	51.7	54.2	42.4	48.4	52.2
135	15/5	817097.7	833067.4	6.7	6	B	55	Premises to the north of Tin Sam	22.1	51.0	45.9	50.5	54.4	42.6	47.5	53.0
135a		817185.9	833096.1	7.5	3	B	55	Premises to the west of San Lee Uk Tsuen	42.5	48.2	42.3	48.3	51.8	41.5	47.8	51.5

Annex D

West Rail - Modelling Locations, Representative NSRs and Results (LAeq, 30min - Night-time) for Design Year (12 car Train)

Modelling Location No.	Reference No. in Annex A (Fig. no/NSR)	Easting (m)	Northing (m)	Datum Level (m)	Max. Building Height (m)	ASR	Criterion (LAeq, 30min dBA)	Description	Horizontal Distance to Nearest Track (m)	Structure Borne, Leq	Multi-Plenum System (MPS) Outboard Plenum Gap, Leq	Multi-Plenum System (MPS) Inboard Plenum Gap, Leq	Multi-Plenum System (MPS) Total, Leq	MPS + Additional Barriers Outboard Plenum Gap, Leq	MPS + Additional Barriers Inboard Plenum Gap, Leq	MPS + Additional Barriers Total, Leq
136		817214.3	833099.9	7.5	3	B	55	Premises to the west of San Lee Uk Tsuen	66.6	46.2	40.6	47.2	50.2	39.7	46.5	49.8
136a		817268.2	833109.9	6.7	6	B	55	Premises to the north of Tin Sam	110.3	44.0	38.6	46.1	48.6	37.6	45.4	48.2
136b		817127.8	833114.8	6	9	B	55	Premises to the south of San Sang Tsuen	14.1	52.9	48.8	53.4	56.9	44.8	49.4	54.9
138a		817147.7	833159.2	6.5	9	B	55	Premises to the north-west of San Sang Tsuen	15.4	53.2	48.9	53.7	57.1	45.2	49.3	55.0
139		817154	833176.4	6.5	6	B	55	Premises to the south of San Sang Tsuen	17.7	52.6	46.2	49.6	55.0	43.7	47.0	54.1
139a		817162.6	833189.8	6.5	9	B	55	Premises to the north-west of San Sang Tsuen	16.3	52.8	48.5	53.0	56.7	45.5	49.5	55.0
139b		817166.6	833212.1	6.5	9	B	55	Premises to the north-west of San Sang Tsuen	23.5	51.4	46.9	51.9	55.3	44.6	49.3	54.0
140		817149.1	833224.7	6.5	9	B	55	Premises to the south of San Sang Tsuen	45.0	48.4	44.1	49.9	52.8	42.3	47.7	51.6
141	15/4	817179.7	833293.6	5.8	9	B	55	Galore Garden	53.8	47.7	43.1	48.6	51.8	42.1	47.7	51.3
141a		817324.9	833319.8	5.5	9	B	55	Premises to the east of San Sang Tsuen	46.4	47.7	42.0	49.1	51.9	41.7	48.9	51.8
142		817324.5	833351.8	5.5	9	B	55	Premises to the east of San Sang Tsuen	26.5	50.2	44.0	50.0	53.6	43.9	49.9	53.6
143		817173	833376.5	6	9	B	55	San Sang Tsuen	105.3	44.5	39.9	45.9	48.9	39.0	45.2	48.4
144	15/2	817382.4	833422.1	5.5	9	B	55	Premises to the north-east of San Sang Tsuen	25.3	50.2	43.7	49.5	53.4	43.6	49.4	53.3
145a		817343.6	833448.4	5.4	9	B	55	Premises to the north-east of San Sang Tsuen	15.8	53.3	45.8	47.2	54.8	45.8	47.2	54.8
146	15/2	817417.1	833472.4	5.4	9	B	55	Premises to the north-east of San Sang Tsuen	15.7	52.2	44.6	49.0	54.4	44.5	48.9	54.3
147		817191.8	833491.2	6.2	9	B	55	Premises to the west of Shek Po Tsuen	159.3	42.6	38.0	44.0	47.0	37.2	43.4	46.6
148		817448.1	833500.5	5.5	9	B	55	Premises to the west of Shek Po Tsuen	17.1	51.5	44.0	48.6	53.8	43.9	48.5	53.7
149		817476.8	833502.3	5.5	9	B	55	Premises to the west of Shek Po Tsuen	35.3	48.4	41.9	48.2	51.8	41.8	48.1	51.7
150a		817388.5	833501.6	5	9	B	55	Premises to the west of Shek Po Tsuen	19.5	52.7	45.0	46.2	54.1	45.0	46.2	54.1
151		817493	833525	5.4	9	B	55	Premises to the west of Shek Po Tsuen	29.0	49.1	42.4	48.0	52.1	42.2	47.9	52.0
152		817507.4	833533.5	5.4	9	B	55	Premises to the west of Shek Po Tsuen	31.9	46.7	42.0	47.9	51.8	41.9	47.8	51.8
152a	15/1	817721.3	833553.4	5	9	B	55	Shek Po Tsuen	141.2	41.3	34.8	40.0	45.6	34.5	42.8	45.5
153		817643.4	833556.4	5.5	9	B	55	Shek Po Tsuen	96.3	43.4	37.0	45.0	47.7	36.7	44.9	47.6
154	15/1	817671.4	833567.1	5	9	B	55	Shek Po Tsuen	103.0	42.9	36.4	44.4	47.1	36.1	44.2	47.0
153a		817620	833572	5	9	B	55	Shek Po Tsuen	70.2	44.8	38.5	45.8	48.8	38.4	45.7	48.7
154a		817538.6	833575.3	5.4	9	B	55	Premises to the west of Shek Po Tsuen	70.2	44.8	38.5	45.8	48.8	38.4	45.7	48.7
155		817673.8	833609.9	5	9	B	55	Shek Po Tsuen	68.2	44.6	38.2	45.2	48.4	38.0	45.0	48.2
155a		817542.9	833634.2	5	9	B	55	Shek Po Tsuen	18.0	52.2	43.5	43.4	53.2	43.5	43.4	53.2
157	14/12	817629.7	833757.2	4.5	9	C	60	Village house	72.0	45.0	38.7	42.5	47.5	37.8	42.5	47.5
160		817875.3	833888.5	5.5	9	C	60	Premises to the east of Sha Chau Lei Tsuen	78.2	43.1	37.8	41.6	46.1	37.8	41.6	46.1
161		817680.6	833914.5	5.5	9	C	60	Sha Chau Lei Tsuen	185.8	40.1	35.3	39.8	43.6	35.3	39.8	43.6
161a		817940.7	833941.6	4.6	9	C	60	Premises to the east of Sha Chau Lei Tsuen	97.9	42.1	38.4	42.4	46.1	38.4	42.4	46.1
161b		817894.4	833946.7	4.6	9	C	60	Premises to the east of Sha Chau Lei Tsuen	122.5	41.2	36.9	40.8	44.8	36.9	40.8	44.8
162	14/10	817711.4	833972.8	5.8	9	C	60	Home for aged	224.9	39.1	34.7	39.1	42.8	34.7	39.1	42.8
162a		818244.2	834029.9	3.1	9	C	60	Premises to the south-west of Tin Yiu Estate	22.3	49.3	43.3	40.5	50.7	43.3	40.5	50.7
164	14/C2	818330.2	834189.1	11.2	25	C	60	Proposed school	81.3	42.6	47.8	49.0	52.0	47.8	49.0	52.0
165	14/C1	818295.9	834268.9	10.9	110	C	60	I/O development	148.7	38.3	43.9	47.4	49.4	43.9	47.4	49.4
165.1	14/C1	818295.9	834268.9	10.9	110	C	60	I/O development	148.7	38.3	43.9	47.4	49.4	43.9	47.4	49.4
165.2	14/C1	818295.9	834268.9	10.9	110	C	60	I/O development	148.7	38.3	43.9	47.4	49.4	43.9	47.4	49.4
165.3	14/C1	818295.9	834268.9	10.9	110	C	60	I/O development	148.7	38.3	43.9	47.4	49.4	43.9	47.4	49.4
165.4	14/C1	818295.9	834268.9	10.9	110	C	60	I/O development	148.7	38.3	43.9	47.4	49.4	43.9	47.4	49.4
166	14/6	818559.6	834281.5	7.2	25	B	55	School	17.2	45.0	46.3	51.9	53.6	46.3	51.9	53.6
167	14/7	818516.6	834381	8.8	25	B	55	School	60.9	38.6	41.6	50.4	51.2	41.6	50.4	51.2
168	14/7	818532.9	834391.2	8.8	25	B	55	School	55.7	38.5	41.7	50.7	51.4	41.7	50.7	51.4

West Rail - Modelling Locations, Representative NSRs and Results (LAeq, 30min - Night-time) for Design Year (12 car Train)																
Modelling Location	No. in Annex A	(m)	(m)	Datum Level	Max. Building Height	ASR	Criterion (LAeq, 30min dBA)	Description	Horizontal Distance to Nearest Track (m)	Structure Borne, Leq	Multi-Plenum System (MPS) Outboard Plenum Gap, Leq	Multi-Plenum System (MPS) Inboard Plenum Gap, Leq	Multi-Plenum System (MPS) Total, Leq	MPS + Additional Barriers Outboard Plenum Gap, Leq	MPS + Additional Barriers Inboard Plenum Gap, Leq	MPS + Additional Barriers Total, Leq
189d		819480.8	834529.7	14	3	B	55	Premises to the south of Ila Mei San Tsuen	29.5	47.1	40.6	47.2	50.2	39.7	46.5	49.8
190	13/71	819508	834624.4	19.7	6	B	55	Shing Tak School	63.2	43.8	38.7	45.8	48.8	38.4	45.7	48.7
191		819510.9	834679	19.7	6	B	55	Shing Tak School	63.3	43.9	38.8	45.9	48.9	38.5	45.8	48.8
193		819526.5	834574.6	15	3	B	55	Premises to the west of Wing Ning Tsuen	17.2	49.3	43.3	40.5	50.7	43.3	40.5	50.7
193a		819536.2	834575.6	15	3	B	55	Premises to the west of Wing Ning Tsuen	29.8	47.2	40.6	47.2	50.2	39.7	46.5	49.8
194		819590.8	834855.3	12	3	B	55	Wing Ning Tsuen	29.6	46.8	41.6	48.6	51.8	42.1	47.7	51.3
196		819611	834571.4	15.5	3	B	55	Wing Ning Tsuen	53.8	43.8	38.7	45.8	48.8	38.4	45.7	48.7
197		819637.7	834533.9	13	3	B	55	Wing Ning Tsuen	29.1	47.3	40.6	47.2	50.2	39.7	46.5	49.8
198		819653.2	834417.8	8.9	3	B	55	Wing Ning Tsuen	68.8	40.7	35.3	39.8	43.6	35.3	39.8	43.6
199		819676.7	834529.7	15.5	3	B	55	Wing Ning Tsuen	39.7	46.0	40.6	47.2	50.2	39.7	46.5	49.8
200		819689	834533.8	8	6	B	55	Wing Ning Tsuen	40.7	45.3	38.5	45.8	48.8	38.4	45.7	48.7
201		819692.4	834537.3	10	3	B	55	Wing Ning Tsuen	17.6	48.7	41.6	48.6	51.8	42.1	47.7	51.3
202	13/70	819693.1	834510	15	3	B	55	Wing Ning Tsuen	27.6	47.6	40.6	47.2	50.2	39.7	46.5	49.8
203		819713	834459.8	10	3	B	55	Wing Ning Tsuen	16.8	48.9	41.6	48.6	51.8	42.1	47.7	51.3
204		819715.5	834509.8	15	3	B	55	Wing Ning Tsuen	35.7	46.4	40.6	47.2	50.2	39.7	46.5	49.8
205		819731.9	834499.9	14.5	3	B	55	Wing Ning Tsuen	32.7	45.0	38.7	45.8	48.8	38.4	45.7	48.7
206		819751.3	834487.2	14	3	B	55	Wing Ning Tsuen	28.2	47.5	40.6	47.2	50.2	39.7	46.5	49.8
209		819767.7	834422.4	9	3	B	55	Wing Ning Tsuen	18.4	48.4	41.6	48.6	51.8	42.1	47.7	51.3
210		819796.7	834421.7	9	3	B	55	Wing Ning Tsuen	11.7	50.1	43.3	40.5	50.7	43.3	40.5	50.7
212		819818.8	834469.7	10.6	3	B	55	Wing Ning Tsuen	37.1	46.3	40.6	47.2	50.2	39.7	46.5	49.8
213		819819.1	834416.1	9	3	B	55	Wing Ning Tsuen	50.1	40.1	35.3	39.8	43.6	35.3	39.8	43.6
214		819836.6	834388.6	8	3	B	55	Wing Ning Tsuen	27.4	46.5	40.6	47.2	50.2	39.7	46.5	49.8
216		819866	834387.5	8.2	3	B	55	Wing Ning Tsuen	17.5	48.2	41.6	48.6	51.8	42.1	47.7	51.3
216a		819885.5	834439.4	8.2	3	B	55	Wing Ning Tsuen	33.9	46.6	40.6	47.2	50.2	39.7	46.5	49.8
217		819916.9	834424.1	10	3	B	55	Wing Ning Tsuen	31.6	47.0	40.6	47.2	50.2	39.7	46.5	49.8
218		819926.5	834413.1	11	3	B	55	Wing Ning Tsuen	24.9	48.0	41.6	48.6	51.8	42.1	47.7	51.3
219		819951.3	834403.6	15	3	B	55	Wing Ning Tsuen	23.6	46.1	40.6	47.2	50.2	39.7	46.5	49.8
220		820005.1	834364.9	8.1	9	B	55	Premises to the west of Shui Tin Tsuen	31.5	44.7	38.7	45.8	48.8	38.4	45.7	48.7
221	13/68	820035.8	834304.2	9.1	9	B	55	Premises to the south of Fung Chi Tsuen	42.9	43.5	37.8	41.6	46.6	37.8	41.6	46.6
223		820080.9	834274.7	6.6	9	B	55	Premises to the south of Fung Chi Tsuen	78.2	43.1	37.8	41.6	46.6	37.8	41.6	46.6
224		820091.9	834355.2	8	9	B	55	Premises to the west of Shui Tin Tsuen								
225		820113.3	834288.7	8	9	B	55	Fung Chi Tsuen	19.0	47.5	40.8	47.0	50.7	40.8	47.0	50.7
225a		820126.5	834368.3	8	9	B	55	Fung Chi Tsuen	55.7	45.4	39.5	44.1	48.1	39.5	44.1	48.1
227		820144.4	834355.9	9	9	B	55	Fung Chi Tsuen	37.3	48.3	42.0	44.2	50.4	42.0	44.2	50.4
229		820162.7	834265	8	9	B	55	Premises to the south of Shui Tin Tsuen	27.1	45.1	39.3	46.5	49.3	39.3	46.5	49.3
229a		820171	834280	8	9	B	55	Shui Tin Tsuen	11.3	52.6	44.6	43.5	53.7	43.4	43.1	53.5
229b		820175	834308	8	9	B	55	Shui Tin Tsuen	10.3	49.1	40.5	45.1	51.0	40.5	45.1	51.0
229c		820176.1	834193.7	8	9	B	55	Premises to the west of Shui Tin Tsuen	22.9	49.6	42.8	43.8	51.3	41.6	43.3	51.0
230		820221.5	834251.1	5.4	3	B	55	Monastery	25.7	44.5	36.0	41.0	46.5	36.0	41.0	46.5
231		820241.7	834307.2	7	6	B	55	Shui Tin Tsuen	25.0	49.7	41.2	40.5	49.4	39.9	43.5	50.5
232	13/65	820298.9	834259.1	8.3	5	B	55	Pok Oi Hospital Tang Pui King Memorial College	85.2	40.2	40.1	50.6	51.3	40.1	50.6	51.3
233		820300.6	834205.8	8.3	5	B	55	Fook Shun Building	54.9	40.2	40.1	50.6	51.3	40.1	50.6	51.3
233a		820312	834303	5	5	B	55	Next to Yuet Ping House	31.1	47.6	45.7	47.5	51.8	41.2	46.1	50.5

West Rail - Modelling Locations, Representative NSRs and Results (LAeq, 30min - Night-time) for Design Year (12 car Train)														Annex D		
Modelling Location No.	Reference No. in Annex A (Fig. no./NSR)	Eastings (m)	Northings (m)	Datum Level (m)	Max. Building Height (m)	ASR	Criterion (Leq, 30min dB(A))	Description	Horizontal Distance to Nearest Track (m)	Structure-Borne, Leq	Multi-Plenum System (MPS) Outboard Plenum Gap, Leq	MPS + Additional Barriers Inboard Plenum Gap, Leq	Total, Leq	No. in Annex A (Fig. no./NSR)	Modelling Location No.	
1896		820315.5	834353.6	5	25	55	55	Pok Oi Hospital Tang Pui King Memorial College	18.7	43.3	39.6	44.1	47.5	37.8	43.4	46.9
1897		820346.5	834307.1	1.1	60	55	55	Yuet Ping House	38.4	44.3	52.2	50.9	55.0	47.2	50.9	51.1
1898		820346.5	834307.1	5	60	55	55	Yuet Ping House	38.4	45.5	48.0	48.2	52.2	42.8	48.2	50.8
1899		820346.5	834307.1	1.1	60	55	55	Yuet Ping House	38.4	46.3	42.2	43.3	49.1	46.3	42.9	48.5
1900		820378.4	834386.4	1.5	88	55	55	Hay Ping House	119.6	40.0	42.6	49.6	48.7	40.2	46.6	48.2
1901		820378.4	834386.4	1.5	88	55	55	Hay Ping House	119.6	40.4	41.0	46.5	48.3	39.1	46.5	48.0
1902		820378.4	834386.4	1.5	88	55	55	Hay Ping House	119.6	40.6	39.3	46.1	47.8	37.8	45.5	47.2
1903		820378.4	834386.4	1.5	88	55	55	Hay Ping House	119.6	40.8	37.7	43.2	46.9	36.6	42.9	45.9
1904		820400.7	834228.3	4.3	23	60	60	Fook Cheong House	20.6	41.9	42.8	49.3	48.0	42.8	49.3	50.6
1905		820426.8	834227.9	8.3	25	60	60	Lung Fat House	19.1	40.9	45.4	50.1	47.5	45.4	47.5	51.7
1906		820444.5	834228.1	4.6	68	60	60	Hong Wah House	18.0	39.1	45.6	54.3	49.5	46.7	49.5	54.3
1907		820444.5	834228.1	4.6	68	60	60	Hong Wah House	18.0	39.1	46.7	55.4	50.6	46.7	50.6	55.4
1908		820444.5	834228.1	4.6	68	60	60	Hong Wah House	18.0	40.5	45.2	50.0	45.2	50.0	45.2	51.6
1909		820492.5	834223.6	8.7	55	60	60	Fu Loy Garden	21.2	38.1	45.6	54.1	49.5	44.1	49.5	54.1
1910		820492.5	834223.6	8.7	60	60	60	Fu Loy Garden	21.2	39.0	46.6	51.9	46.6	45.2	51.9	53.2
1911		820505	83412.3	4.7	60	60	60	Hor Ping House	47.0	41.8	49.0	47.6	49.4	47.6	49.4	51.5
1912		820505	83412.3	4.7	60	60	60	Hor Ping House	47.0	42.7	43.9	47.1	47.1	43.3	46.9	49.5
1913		820505	83412.3	4.7	60	60	60	Hor Ping House	47.0	43.2	39.2	42.6	48.4	42.5	46.6	49.6
1914		820532.2	834221.9	4.7	54.6	60	60	Fu Loy Garden	22.7	38.6	46.2	53.6	45.4	46.2	45.4	54.6
1915		820532.2	834221.9	4.7	54.6	60	60	Fu Loy Garden	22.7	39.7	47.4	53.2	47.4	45.4	53.2	56.6
1916		820588.1	834191.7	7.7	12	60	60	Chun Kwong Primary School	52.7	35.4	41.6	42.2	44.2	37.6	41.6	44.2
1917		820589.1	834339.2	4.7	60	60	60	Hor Ping House	74.1	39.2	41.8	47.9	49.3	41.3	47.8	49.1
1918		820589.1	834339.2	4.7	60	60	60	Hor Ping House	74.1	39.6	39.6	47.4	48.6	39.2	47.3	48.5
1919		820589.1	834339.2	4.7	60	60	60	Hor Ping House	74.1	39.8	36.2	42.7	45.1	35.6	42.6	45.0
1920		820616.5	834381.5	4.5	25	60	60	Leung Sing Tak School	116.5	37.8	36.2	43.6	46.7	35.8	45.6	46.6
1921		820786.1	834221.9	4.3	3	60	60	Tai Kiu	22.7	45.9	35.9	34.0	46.6	35.9	34.0	46.6
1922		820818.2	834177.7	4.3	3	60	60	Tai Kiu	65.9	41.7	33.7	35.4	43.1	33.7	35.4	43.1
1923		820867.7	834150.5	4	6	60	60	Tai Kiu	92.9	40.4	33.2	36.3	42.4	33.2	36.3	42.4
1924		820895.8	834182.9	4	45	60	60	Yuen Long Estate	60.5	41.9	42.9	45.8	48.6	42.9	45.8	48.6
1925		820965.9	834215.1	4.3	45	60	60	Yuen Long Estate	28.0	44.5	52.3	49.3	54.5	52.3	49.3	54.5
1926		820965.9	834215.1	4.3	45	60	60	Yuen Long Estate	28.0	45.9	44.5	45.9	50.3	44.5	45.9	50.3
1927		821027.2	834215.1	4.3	45	60	60	Yuen Long Estate Block 5	24.2	45.8	53.8	53.7	57.1	53.7	57.1	57.1
1928		821027.2	834215.1	4.3	45	60	60	Yuen Long Estate Block 5	24.2	47.7	46.7	47.8	52.2	46.7	47.8	52.2
1929		821140.9	834189.5	4.3	60	60	60	Wing Wai Centre	19.1	44.0	52.0	55.4	57.2	52.0	55.4	57.2
1930		821140.9	834189.5	4.3	60	60	60	Wing Wai Centre	19.1	46.1	54.1	57.0	59.0	54.1	57.0	59.0
1931		821140.9	834189.5	4.3	60	60	60	Wing Wai Centre	19.1	48.4	45.6	49.8	53.0	45.6	49.8	53.0
1932		821161	834132.8	8	60	60	60	Tai Hing Building	61.7	41.3	48.0	51.6	53.4	48.0	51.6	53.4
1933		821161	834132.8	8	60	60	60	Tai Hing Building	61.7	42.0	43.3	45.4	52.4	43.3	45.4	52.4
1934		821161	834132.8	8	60	60	60	Tai Hing Building	61.7	42.4	40.2	47.2	49.0	40.2	47.2	49.0
1935		821167.8	834245.3	4	3	60	60	Village House	35.0	45.0	36.3	38.6	46.4	36.3	38.6	46.4
1936		821200.8	834216	4	12	60	60	Kwan Lok San Tsuen	23.7	46.7	39.8	48.8	48.8	39.8	48.8	48.8
1937		821223.3	8341118.5	4.2	12	60	60	Rainbow Mansion	45.1	42.8	36.6	43.2	46.5	36.6	43.2	46.5
1938		821236.9	834107.7	7	17	60	60	Victory Building	48.4	42.3	37.9	46.5	47.9	37.9	46.5	47.9

Annex D																
West Rail - Modelling Locations, Representative NSRs and Results (LAeq, 30min - Night-time) for Design Year (12 car Train)																
Modelling Location No.	Reference No. in Annex A (Fig. no./NSR)	Eastings (m)	Northings (m)	Datum Level (m)	Max. Building Height (m)	ASR	Criterion (Leq, 30min dB(A))	Description	Horizontal Distance to Nearest Track (m)	Structure-Borne, Leq	Multi-Plenum System (MPS)			MPS + Additional Barriers		
											Outboard Plenum Gap, Leq	Inboard Plenum Gap, Leq	Total, Leq	Outboard Plenum Gap, Leq	Inboard Plenum Gap, Leq	Total, Leq
234	13/63	820315	834353.6	5	25	B	55	Pok Oi Hospital Tang Pui King Memorial College	81.7	43.3	39.6	44.1	47.5	37.8	43.4	46.9
235		820346.5	834307.1	5	60	B	55	Yuet Ping House	38.4	44.3	52.2	50.9	55.0	47.2	50.9	53.1
235.1		820346.5	834307.1	5	60	B	55	Yuet Ping House	38.4	45.5	48.0	48.2	52.2	42.8	48.2	50.8
235.2		820346.5	834307.1	5	60	B	55	Yuet Ping House	38.4	46.3	42.2	43.3	49.1	39.3	42.9	48.5
236		820378.4	834386.4	5.1	88	B	55	Hay Ping House	119.6	40.0	42.6	46.6	48.7	40.2	46.6	48.2
236.1		820378.4	834386.4	5.1	88	B	55	Hay Ping House	119.6	40.4	41.0	46.5	48.3	39.1	46.5	48.0
236.2		820378.4	834386.4	5.1	88	B	55	Hay Ping House	119.6	40.6	39.3	46.1	47.8	37.8	45.5	47.2
236.3		820378.4	834386.4	5.1	88	B	55	Hay Ping House	119.6	40.8	37.7	43.2	45.9	36.6	42.9	45.6
237		820400.7	834228.3	4.3	23	C	60	Fook Cheong House	20.6	41.9	42.8	49.3	50.8	42.8	49.3	50.8
238	13/60	820426.8	834227.9	8.3	25	C	60	Lung Fat House	19.1	40.9	45.4	50.1	51.7	45.4	50.1	51.7
239		820444.5	834228.1	4.6	68	C	60	Hong Wah House	18.0	38.1	45.6	54.3	54.9	45.6	54.3	54.9
239.1		820444.5	834228.1	4.6	68	C	60	Hong Wah House	18.0	39.1	46.7	55.4	56.0	46.7	55.4	56.0
239.2		820444.5	834228.1	4.6	68	C	60	Hong Wah House	18.0	40.5	45.2	50.0	51.6	45.2	50.0	51.6
240	13/58	820492.5	834223.6	8.7	55	C	60	Fu Loy Garden	21.2	38.1	45.6	54.1	54.8	45.6	54.1	54.8
240.1	13/58	820492.5	834223.6	8.7	55	C	60	Fu Loy Garden	21.2	39.0	46.6	51.9	53.2	46.6	51.9	53.2
241		820505	83412.3	4.7	60	C	60	Hor Ping House	47.0	41.8	49.0	47.6	51.8	48.4	47.6	51.5
241.1		820505	83412.3	4.7	60	C	60	Hor Ping House	47.0	42.7	43.9	47.1	49.8	43.3	46.9	49.5
241.2		820505	83412.3	4.7	60	C	60	Hor Ping House	47.0	43.2	39.2	42.6	48.6	38.4	42.5	46.6
242		820532.2	834221.9	4.7	54.6	C	60	Fu Loy Garden	22.7	38.6	46.2	53.6	54.4	46.2	53.6	54.4
242.1		820532.2	834221.9	4.7	54.6	C	60	Fu Loy Garden	22.7	39.7	47.4	52.2	53.6	47.4	52.2	53.6
243	13/50	820581.6	834191.7	8.6	12	C	60	Chun Kwong Primary School	52.7	39.2	35.4	41.6	44.2	35.4	41.6	44.2
244		820589.1	834339.2	4.7	60	C	60	Hor Ping House	74.1	39.2	41.8	47.9	49.3	41.3	47.8	49.1
244.1		820589.1	834339.2	4.7	60	C	60	Hor Ping House	74.1	39.6	39.6	47.4	48.6	39.2	47.3	48.5
244.2		820589.1	834339.2	4.7	60	C	60	Hor Ping House	74.1	39.8	36.2	42.7	45.1	35.6	42.6	45.0
245		820616.5	834381.5	4.5	25	C	60	Leung Sing Tak School	116.5	37.8	36.2	43.6	46.7	35.8	45.6	46.6
248a	12/48	820786.1	834221	4.3	3	C	60	Tai Kiu	22.7	45.9	35.9	34.0	46.6	35.9	34.0	46.6
250		820818.2	834177.7	4.3	3	C	60	Tai Kiu	65.9	41.7	33.7	35.4	43.1	33.7	35.4	43.1
251		820867.7	834150.5	4	6	C	60	Tai Kiu	92.9	40.4	33.2	36.3	42.4	33.2	36.3	42.4
251a		820895.8	834182.9	4	45	C	60	Yuen Long Estate	60.5	41.9	42.9	45.8	48.6	42.9	45.8	48.6
253	12/40	820965.9	834215	4.3	45	C	60	Yuen Long Estate	28.0	44.5	52.3	49.3	54.5	52.3	49.3	54.5
253.1	12/40	820965.9	834215	4.3	45	C	60	Yuen Long Estate	28.0	45.9	44.5	45.9	50.3	44.5	45.9	50.3
255		821027.2	834215	4.3	45	C	60	Yuen Long Estate Block 5	24.2	45.8	53.8	53.7	57.1	53.7	57.1	
255.1		821027.2	834215	4.3	45	C	60	Yuen Long Estate Block 5	24.2	47.7	46.7	47.8	52.2	46.7	47.8	52.2
258		821140.9	834189.5	4.3	60	C	60	Wing Wai Centre	19.1	44.0	52.0	55.4	57.2	52.0	55.4	57.2
258.1		821140.9	834189.5	4.3	60	C	60	Wing Wai Centre	19.1	46.1	54.1	57.0	59.0	54.1	57.0	59.0
258.2		821140.9	834189.5	4.3	60	C	60	Wing Wai Centre	19.1	48.4	45.6	49.8	53.0	45.6	49.8	53.0
259	12/31	821161	834132.8	8	60	C	60	Tai Hing Building	61.7	41.3	48.0	51.6	53.4	48.0	51.6	53.4
259.1	12/31	821161	834132.8	8	60	C	60	Tai Hing Building	61.7	42.0	43.3	51.4	52.4	43.3	51.4	52.4
259.2	12/31	821161	834132.8	8	60	C	60	Tai Hing Building	61.7	42.4	40.2	47.2	49.0	40.2	47.2	49.0
259a		821167.8	834245.3	4	3	C	60	Village House	35.0	45.0	36.3	38.9	46.4	36.3	38.9	46.4
260		821200.8	834216	4	12	C	60	Kwan Lok San Tsuen	23.7	46.7	39.8	42.8	48.8	39.8	42.8	48.8
261	12/29	821223.3	834118.5	4.2	12	C	60	Rainbow Mansion	45.1	42.8	36.6	43.2	46.5	36.6	43.2	46.5
262		821236.6	834107.7	4	17	C	60	Victory Building	48.4	42.1	32.9	45.9	47.0	32.9	45.9	47.0

Annex D

West Rail - Modelling Locations, Representative NSRs and Results (LAeq, 30min - Night-time) for Design Year (12 car Train)

Modelling Location No.	Reference No. in Annex A (Fig. no./NSR)	Eastings (m)	Northings (m)	Datum Level (m)	Max. Building Height (m)	ASR	Criterion (Leq, 30min dB(A))	Description	Horizontal Distance to Nearest Track (m)	Structure-Borne, Leq	Multi-Plenum System (MPS) Outboard Plenum Gap, Leq	Inboard Plenum Gap, Leq	Total, Leq	MPS + Additional Barriers Outboard Plenum Gap, Leq	Inboard Plenum Gap, Leq	Total, Leq
264		821258.4	834089.5	4	18	C	60	Kin On Building	54.1	41.5	38.5	46.0	47.9	38.5	46.0	47.9
265		821320.5	834039.1	4	11.2	C	60	Wing Fat Building	70.9	39.7	34.6	40.9	43.9	34.6	40.9	43.9
266		821332.5	834162.6	3	3	C	60	Sai Pin Wai	37.1	46.1	37.0	37.6	47.1	37.0	37.6	47.1
266a		821333.8	834221.2	3	3	C	60	Sai Pin Wai	91.8	41.7	34.2	37.7	43.7	34.2	37.7	43.7
267		821357.1	834008.4	4	11.2	C	60	Lee Kwan Building	86.2	38.4	34.0	40.0	42.9	34.0	40.0	42.9
268	12/16	821357.4	834132.7	4.1	3	C	60	Nam Pin Wai	17.1	49.0	38.6	37.8	49.7	38.6	37.8	49.7
269		821367	833983.6	4	69	C	60	Wai Fai Building	107.0	37.0	39.4	47.0	48.1	39.4	47.0	48.1
269.1		821367	833983.6	4	69	C	60	Wai Fai Building	107.0	37.2	37.8	46.6	47.6	37.8	46.6	47.6
269.2		821367	833983.6	4	69	C	60	Wai Fai Building	107.0	37.4	35.7	43.9	45.3	35.7	43.9	45.3
271		821451.6	833860.7	4	63.2	C	60	Far East Consortium Yuen Long Building	211.8	34.7	33.7	43.5	44.4	33.6	43.5	44.4
271.1		821451.6	833860.7	4	63.2	C	60	Far East Consortium Yuen Long Building	211.8	34.7	32.7	42.6	43.6	32.6	42.6	43.6
271.2		821451.6	833860.7	4	63.2	C	60	Far East Consortium Yuen Long Building	211.8	34.7	31.3	38.6	40.6	31.3	38.5	40.6
272	12/16	821464.1	834128.4	4.1	12	C	60	Nam Pin Wai	16.9	48.7	41.2	40.2	49.9	41.2	40.2	49.9
272a	12/15	821484	834109	4.1	12	C	60	Nam Pin Wai	65.0	42.0	34.5	36.9	43.7	34.5	36.9	43.7
274		821519.1	834156	3	3	C	60	Nam Pin Wai	191.4	35.0	34.5	43.9	44.8	34.5	43.9	44.8
275		821522.2	833877.7	4	63.2	C	60	Premises next to Wai Fai Building	191.4	35.1	33.2	43.6	44.5	33.2	43.6	44.5
275.1		821522.2	833877.7	4	63.2	C	60	Premises next to Wai Fai Building	191.4	35.1	31.7	39.2	41.2	31.6	39.2	41.1
275.2		821522.2	833877.7	4	63.2	C	60	Premises next to Wai Fai Building	111.7	39.3	32.7	36.7	41.8	32.7	36.7	41.8
276		821543.2	834202.6	3	3	C	60	Premises to the south of Yuen Long Kau Iui	122.2	37.8	33.0	38.1	41.6	32.9	38.1	41.6
277		821620	834213	3	9	C	60	Premises to the west of Tung Tau Tsuen	19.1	37.0	44.1	49.0	50.4	44.1	49.0	50.4
278	12/13	821640.4	834049.8	19	120	C	60	Sun Yuen Long Centre	19.1	37.4	44.6	49.6	51.0	44.6	49.6	51.0
278.1	12/13	821640.4	834049.8	19	120	C	60	Sun Yuen Long Centre	19.1	38.0	45.2	50.2	51.6	45.2	50.2	51.6
278.2	12/13	821640.4	834049.8	19	120	C	60	Sun Yuen Long Centre	19.1	38.7	46.1	51.0	52.4	46.1	51.0	52.4
278.3	12/13	821640.4	834049.8	19	120	C	60	Sun Yuen Long Centre	19.1	39.7	47.2	52.0	53.4	47.2	52.0	53.4
278.4	12/13	821640.4	834049.8	19	120	C	60	Sun Yuen Long Centre	19.1	41.2	49.0	52.6	54.4	49.0	52.6	54.4
278.5	12/13	821640.4	834049.8	19	120	C	60	Sun Yuen Long Centre	130.9	36.8	32.5	38.2	41.2	32.4	38.2	41.2
279		821679.6	834221.6	3	9	C	60	Tung Tau Tsuen	122.5	36.0	32.2	38.6	41.1	32.2	38.6	41.1
280		821775.4	834213	3.1	9	C	60	Tsui Uk Tsuen	81.4	36.5	32.9	39.3	41.7	32.8	39.3	41.7
281	12/9	821854.7	834171.8	3.2	9	C	60	Ying Lung Wai	65.5	37.9	33.9	40.3	42.9	33.9	40.3	42.9
282	12/8	821933.3	834155.8	3	9	C	60	Tai Wai Tsuen	39.4	44.3	36.1	36.0	45.4	36.0	36.0	45.4
283		821973.4	834029.2	4	3	C	60	Premises to the south of Tai Wai Tsuen	41.6	40.1	35.3	40.9	44.1	35.3	40.9	44.1
284	12/8	821973.7	834131.9	3	9	C	60	Premises to the south of Tai Wai Tsuen	65.7	40.0	34.6	40.6	43.9	34.6	40.6	43.9
287a		822088	834155.8	2.2	9	C	60	Tai Wai Tsuen	86.5	39.2	33.6	40.2	43.2	33.5	40.2	43.2
289		822116	834176.6	2.2	9	C	60	Tai Wai Tsuen	90.5	39.2	33.6	40.5	43.4	33.6	40.5	43.4
290		822148.2	834180.7	3.9	9	C	60	Tai Wai Tsuen	44.2	45.9	35.8	36.5	46.7	35.7	36.5	46.7
291	12/5	822206	834038.6	4	3	C	60	Sz Tsz Uk	79.2	40.1	33.9	40.0	43.6	33.9	40.0	43.6
292		822212.1	834171.4	4	9	C	60	West of Small Traders New Village	35.1	43.4	35.6	41.7	46.1	35.6	41.7	46.1
293	12/6	822252.2	834129.3	4.7	6	C	60	Small Traders New Village	35.3	43.9	35.2	42.8	46.7	35.2	42.8	46.7
293a		822280.9	834131.2	4.7	6	C	60	Small Traders New Village	46.8	42.9	34.3	42.9	46.2	34.3	42.9	46.2
296	12/6	822303.9	834144.1	4.7	6	C	60	Small Traders New Village Public School	32.4	50.0	36.4	37.2	50.4	36.4	37.1	50.4
298		822330.5	834061.8	5	6	C	60	Premises next to the Public School of Small Traders New Village	30.3	45.0	34.9	44.3	47.9	34.9	44.3	47.9
298a		822347.5	834130.2	5	6	C	60	Small Traders New Village Public School	12.3	53.9	44.1	48.3	55.3	44.1	48.3	55.3
299	12/3	822351.7	834083.2	5	24	C	60	Pok Oi Hospital	56.4	42.4	33.3	40.0	44.7	33.3	40.0	44.7
300	12/2	822352.6	834156.6	4.8	4	B	55	Small Traders New Village Public School								

Annex D

West Rail - Modelling Locations, Representative NSRs and Results (LAeq, 30min - Night-time) for Design Year (12 car Train)

Modelling Location No.	Reference No. in Annex A (Fig. no./NSR)	Easting (m)	Northing (m)	Datum Level (m)	Max. Building Height (m)	ASR	Criterion (Leq,30min dB(A))	Description	Horizontal Distance to Nearest Track (m)	Structure-Borne, Leq	Multi-Plenum System (MPS)		Total, Leq	MPS + Additional Barriers		Total, Leq
											Outboard Plenum Gap, Leq	Inboard Plenum Gap, Leq		Outboard Plenum Gap, Leq	Inboard Plenum Gap, Leq	
301		822358.8	834157.5	4.8	4	B	55	Premises to the east of Pok Oi Hospital	56.9	42.4	33.3	40.0	44.7	33.3	40.0	44.7
302		822367.4	834113.9	5.7	6	B	55	Premises to the east of Pok Oi Hospital	12.9	48.3	37.5	47.5	51.1	37.5	47.5	51.1
303		822424.9	834085.8	5	6	B	55	Premises to the east of Pok Oi Hospital	14.1	56.2	38.2	39.3	56.4	38.2	39.3	56.4
304		822471.2	834091.1	4	6	B	55	Premises to the east of Pok Oi Hospital	11.6	55.8	40.4	42.0	56.1	40.4	42.0	56.1
305		822472.3	834119.2	3	6	B	55	Premises to the east of Pok Oi Hospital	11.9	54.6	36.9	43.0	55.0	36.9	43.0	55.0
305a		816181	831085	6.7	5	C	60	Site/Premises to the west of Lam Tei	27.4	45.9	39.1	46.4	49.6	38.9	46.4	49.6
306		822490.5	834091.1	4	6	B	55	Premises to the east of Pok Oi Hospital	12.8	55.7	40.4	42.1	56.0	40.4	42.1	56.0
307		822543.6	834071.4	5	6	B	55	Premises to the east of Pok Oi Hospital	35.6	48.1	39.8	41.2	49.4	39.8	41.2	49.4
308		822574.9	834073.3	6.3	9	B	55	Premises to the east of Pok Oi Hospital	35.5	48.2	41.0	43.1	50.0	40.9	43.0	49.9
309a		822590.5	834081.8	3.5	5	B	55	Premises to the east of Pok Oi Hospital	28.0	48.9	39.8	40.9	50.0	39.7	40.8	50.0
309b		822601.7	834135.5	3.5	9	B	55	Premises to the east of Pok Oi Hospital	20.4	47.9	38.9	44.0	49.8	38.9	44.0	49.8
311a		822602.8	834095.7	4	9	B	55	Premises to the east of Pok Oi Hospital	14.9	51.5	41.7	42.7	52.4	41.7	42.7	52.4
311b		822626.1	834096.5	4	9	B	55	Premises to the west of Tung Shing Lei	15.5	51.4	41.8	42.8	52.4	41.7	42.8	52.4
312a		822681.8	834070.5	5	9	B	55	Tung Shing Lei	44.9	47.4	40.2	43.0	49.3	40.1	42.8	49.3
313	11/27	822726.7	834139.9	4.6	9	B	55	Tung Shing Lei	16.2	49.7	40.2	44.6	51.2	40.2	44.6	51.2
314	11/27	822736.7	834136.8	4.6	9	B	55	Tung Shing Lei	12.2	50.7	40.3	44.1	51.9	40.3	44.1	51.9
314a		822749.2	834143.9	4.6	9	B	55	Tung Shing Lei	18.0	49.2	40.0	44.5	50.8	40.0	44.5	50.8
314b		822776.3	834160	4.6	9	B	55	Tung Shing Lei	31.0	46.9	39.0	44.6	49.3	39.0	44.6	49.3
314c		822762	834152	4.6	9	B	55	Tung Shing Lei	24.7	47.9	39.5	44.6	50.0	39.5	44.6	50.0
315		822744.4	834108.5	6	9	B	55	Tung Shing Lei	12.2	52.9	43.2	43.2	53.7	43.1	43.1	53.7
316		822780.4	834101.1	7	9	B	55	Tung Shing Lei	23.5	50.0	42.5	44.4	51.6	42.2	44.3	51.6
317		822784.5	834144.1	4.6	9	B	55	Tung Shing Lei	14.3	49.8	40.0	44.2	51.2	40.0	44.2	51.2
317a		822802.8	834146.3	4.6	9	B	55	Tung Shing Lei	14.2	49.8	39.9	44.1	51.2	39.9	44.1	51.2
317b		822819.4	834146.1	6.5	9	B	55	Tung Shing Lei	11.9	50.7	40.8	44.6	52.0	40.8	44.6	52.0
318		822822	834076.3	12	9	B	55	Tung Shing Lei	53.1	46.5	40.9	45.7	49.7	40.5	45.3	49.5
319		822832.8	834153.9	7	9	B	55	Tung Shing Lei	17.8	49.2	40.7	45.4	51.1	40.7	45.4	51.1
319a		822850	834146.1	7.5	9	B	55	Tung Shing Lei	7.9	52.3	41.2	44.7	53.3	41.2	44.7	53.3
320a		822863	834150.3	7.5	9	B	55	Tung Shing Lei	10.4	51.3	41.1	44.8	52.5	41.1	44.8	52.5
321a		822876.2	834125.5	10	9	B	55	Tung Shing Lei	11.3	53.2	44.8	45.2	54.3	44.0	44.8	54.2
324a		822899.2	834122.8	14	9	B	55	Tung Shing Lei	16.9	51.6	46.2	49.2	54.3	44.9	47.5	53.6
324b		822900.9	834161.3	8.9	6	B	55	Tung Shing Lei	16.6	49.5	40.0	44.3	51.0	40.0	44.3	51.0
325a		822910.7	834168.5	8.9	6	B	55	Tung Shing Lei	22.7	48.4	39.8	44.5	50.3	39.8	44.5	50.3
325b		822915.7	834122.2	16	9	B	55	Tung Shing Lei	19.4	51.1	46.8	51.4	55.0	44.9	48.9	53.8
326a		822928.6	834165	13.5	9	B	55	Tung Shing Lei	17.3	49.9	44.1	50.0	53.5	44.1	50.0	53.5
328		822941.1	834066.9	23	9	C	60	Tung Shing Lei	77.0	45.3	41.1	48.4	50.6	40.3	47.1	49.8
329		823040.1	834229.9	10	9	C	60	Premises to the east of Tung Shing Lei	77.5	43.8	37.7	44.7	47.7	37.7	44.7	47.7
330	11/26	823122.9	834050.3	7.1	9	C	60	Premises to the east of Au Tau	91.5	44.1	37.4	42.1	46.8	37.1	42.0	46.7
332	11/26	823186.5	834068.4	7.1	9	C	60	Premises to the east of Au Tau	64.0	45.2	38.2	42.5	47.6	38.1	42.4	47.6
334	11/26	823246.7	834106.3	4.2	9	C	60	Premises to the east of Au Tau	16.2	49.8	39.6	41.8	50.8	39.5	41.8	50.8
335		823257	834077	4.2	9	C	60	Premises to the east of Au Tau	43.2	46.5	38.5	41.7	48.2	38.3	41.6	48.2
336	11/24	823299.1	834204.3	4	6	B	55	Premises to the south of Cheung Chun San Tsuen	143.0	42.0	34.9	38.7	44.2	34.9	38.7	44.2
337a		823892.6	833630	5	9	B	55	Premises to the north of Ko Po Tsuen	137.7	40.0	35.3	40.0	43.7	35.3	40.0	43.7
337b		823950.1	833593.7	5	9	B	55	Premises to the north of Ko Po Tsuen	109.4	40.4	35.9	40.6	44.2	35.8	40.6	44.2
337c		823957	833574	5	9	B	55	Premises to the north of Ko Po Tsuen	114.4	40.1	35.8	40.5	44.0	35.8	40.5	44.0

Annex D

West Rail - Modelling Locations, Representative NSRs and Results (LAeq, 30min - Night-time) for Design Year (12 car Train)

Modelling Location No.	Reference No. in Annex A (Fig. no./NSR)	Easting (m)	Northing (m)	Datum Level (m)	Max. Building Height (m)	ASR	Criterion (Leq, 30min dB(A))	Description	Horizontal Distance to Nearest Track (m)	Structure-Borne, Leq	Multi-Plenum System (MPS) Outboard Plenum Gap, Leq	Inboard Plenum Gap, Leq	Total, Leq	MPS + Additional Outboard Plenum Gap, Leq	Inboard Plenum Gap, Leq	Barriers Total, Leq
338	11/24	823636.2	834264.9	4	3	B	55	Premises to the south of Cheung Chun San Tsuen	211.6	40.0	33.4	37.7	42.6	33.4	37.7	42.6
339	11/24	823647	834237.1	4.2	6	B	55	Premises to the south of Cheung Chun San Tsuen	188.3	40.7	34.0	38.4	43.3	34.0	38.4	43.3
340a		823999.6	833877.9	5.5	4	B	55	Village House	77.6	43.3	37.6	39.7	46.9	37.6	39.7	46.9
340b		824001.3	833900.8	5.5	4	B	55	Village House	94.4	44.4	37.0	39.2	46.1	37.0	39.2	46.1
340c		824085.3	833510	4.1	3	B	55	Premises to the north of Ko Po Tsuen	42.0	43.5	37.4	42.4	46.6	37.4	42.4	46.6
341	10/16	824140.9	833131.4	12	3	C	60	Premises to the south-east of Ko Po Tsuen	See No. 342							
342	10/16	824230	833046.2	5	12	C	60	Premises to the south-east of Ko Po Tsuen	170.8	35.1	38.0	40.6	43.2	38.0	40.6	43.2
342a		824271.6	833614.9	5.8	4	B	55	Village House	149.8	41.2	35.3	38.1	43.6	35.3	38.1	43.6
342b		824297.7	833594.1	5.8	4	B	55	Village House	160.0	40.8	35.1	38.3	43.4	35.1	38.3	43.4
342c		824314	833568.5	4.9	4	B	55	Village House	159.3	40.7	35.1	38.4	43.4	35.1	38.4	43.4
342d		824321.5	833369.4	5.7	4	B	55	Village House	55.6	44.8	38.4	40.2	46.8	38.4	40.2	46.8
343a		824333	833576	5	4	B	55	Village House	179.4	40.1	34.8	38.7	43.2	34.8	38.7	43.2
344	10/20	824338.5	833423.5	5	4	B	55	Kam Tin Mung Yeung Public School	99.6	42.3	36.2	38.0	44.4	36.2	38.0	44.4
344a		824343.8	833369.6	5.7	4	B	55	Village House	74.2	43.4	37.1	38.6	45.3	37.1	38.6	45.3
344b		824382.4	833347.8	5.4	4	B	55	Village House	93.9	41.9	36.1	38.6	44.3	36.1	38.6	44.3
344c		824430.9	833297.7	6.3	4	B	55	Village House	104.1	40.8	35.8	39.8	44.0	35.8	39.8	44.0
344d		824458	833117	3.8	9	B	55	Low rise development to the north of Kam Tin Station	20.5	47.3	39.2	41.7	48.9	39.2	41.7	48.9
344e		824464.4	833275.4	6.3	4	B	55	Village House	118.0	40.0	35.8	40.6	44.0	35.8	40.6	44.0
345	10/14	824469	833114	3.8	9	B	55	Low rise development to the north of Kam Tin Station	27.9	45.9	38.6	40.5	47.6	38.6	40.5	47.6
346	10/14	824456	833102	3.8	9	B	55	Low rise development to the north of Kam Tin Station	10.5	51.5	42.3	44.5	52.7	42.3	44.5	52.7
347	10/14	824616.5	833151.5	4	9	U	55	Low rise development to the north of Kam Tin Station	171.6	45.8	36.7	43.0	47.9	36.7	43.0	47.9
347a		824468	833099	3.8	9	D	55	Low rise development to the north of Kam Tin Station	18.7	49.6	40.8	41.6	50.7	40.8	41.6	50.7
348	10/14	824485.1	833109.1	3.8	9	B	55	Low rise development to the north of Kam Tin Station	38.6	49.3	37.6	40.0	50.0	37.6	40.0	50.0
348a		824465	833088	3.8	9	D	55	Low rise development to the north of Kam Tin Station	10.2	52.3	41.7	44.3	53.3	41.7	44.3	53.3
349	10/14	824496	833106.7	3.8	9	B	55	Low rise development to the north of Kam Tin Station	46.3	49.0	37.5	39.6	49.7	37.5	39.6	49.7
349a	10/14	824477	833085	3.8	9	B	55	Low rise development to the north of Kam Tin Station	18.5	50.7	40.4	41.4	51.5	40.4	41.4	51.5
349b	10/14	824488	833083	3.8	9	B	55	Low rise development to the north of Kam Tin Station	26.6	45.9	38.7	40.8	47.7	38.7	40.8	47.7
350	10/14	824519.4	833101.1	3.8	9	B	55	Low rise development to the north of Kam Tin Station	62.8	51.6	37.5	41.7	52.2	37.5	41.7	52.2
351	10/14	824483.8	833094.6	3.8	9	B	55	Low rise development to the north of Kam Tin Station	29.5	52.2	38.6	40.5	52.6	38.6	40.5	52.6
351a		824495.9	833091.7	3.8	9	B	55	Low rise development to the north of Kam Tin Station	38.0	51.9	38.4	39.9	52.4	38.4	39.9	52.4
351b		824479	833076	3.8	9	B	55	Low rise development to the north of Kam Tin Station	15.2	54.6	40.5	41.8	55.0	40.5	41.8	55.0
351c		824557.5	833245.3	7.4	4	B	55	Village House	175.6	37.8	36.0	41.9	44.1	36.0	41.9	44.1
352	10/14	824565.6	833042	4	9	B	55	Low rise development to the north of Kam Tin Station	68.9	40.5	38.3	43.3	46.0	38.3	43.3	46.0

APPENDIX 6 – Normal, Abnormal & Emergency Operations for LRT

From OSM-L

MEMO

Ref. in LQS/114/006

To PM-L

Tel. No. 2468 7686

Date 30 June, 1999

Your Ref. in dated

LRT Projects - Environmental Impact Assessment

Attached please find the noise assessment reports for rectifier stations.

2. Currently we do not have the definitions of normal, abnormal, transient and emergency operations in an explicit manner. However, to enhance our EMS, the following definitions will be proposed to LR management:-

a. Normal operation

The day-to-day operations without any interruption causing service delay.

b. Abnormal operation

The planned or expected event / happening which is not day-to-day or infrequent nature (e.g. engineering or operational adjustment catering for extended LRV services) or incidents resulting in service disruption less than 20 minutes.

c. Emergency operation

An unexpected occurrence which has environmental impact (e.g. spillage of chemical) or major incident as defined in the Procedure Manual for Contingencies.

Should you require further information, please contact me.

AS/ac

PROJECT MANAGER	
DATE	30 JUN 1999
SPM	ACI (M06) (C22) (H3)
PS	
PRELIM	
PRIC	
ILL	
SDG	
LOW	
PA / LA	
FILE	

(Anthony Sun)
Quality and Safety Manager

APPENDIX 7 – Predicted Cumulative Train Noise Impacts

Project : LRT Alterations EIA
 Title : Predicted Cumulative Impacts for Tin Shui Wai Phase 4 - Up to 2011
 Date : 11-Nov-99

NSR No.	Description	Floor Level	Predicted Noise Levels, dB(A)				Compliance
			LRT	WR (12-cars train)	Overall	Criterion, dB(A)	
N2	Yiu Foo House	1	51	52	55	55	Yes
		5	51	52	55	55	Yes
		10	51	52	55	55	Yes
		15	51	52	55	55	Yes
		20	50	52	55	55	Yes
		25	50	52	54	55	Yes
		30	50	52	54	55	Yes
		35	50	52	54	55	Yes
		40	50	52	54	55	Yes
		1	50	52	54	55	Yes
N4	Yiu Man House	5	50	52	54	55	Yes
		10	50	52	54	55	Yes
		15	50	52	54	55	Yes
		20	50	52	54	55	Yes
		25	50	52	54	55	Yes
		30	50	52	54	55	Yes
		35	50	52	54	55	Yes
		40	50	52	54	55	Yes
		1	49	53	54	55	Yes
		5	48	53	54	55	Yes
N7	Yiu Tai House	10	48	53	54	55	Yes
		15	48	52	54	55	Yes
		20	48	52	53	55	Yes
		25	48	51	53	55	Yes
		30	48	50	52	55	Yes
		35	47	49	52	55	Yes
		40	47	49	51	55	Yes
		1	48	53	54	55	Yes
		5	48	53	54	55	Yes
		10	48	53	54	55	Yes
N8	Yiu Hing House	15	48	52	54	55	Yes
		20	48	52	53	55	Yes
		25	48	51	53	55	Yes
		30	47	50	52	55	Yes
		35	47	49	51	55	Yes
		40	47	49	51	55	Yes
		1	50	53	55	55	Yes
		5	50	54	55	55	Yes
		10	50	54	55	55	Yes
		15	52	53	55	55	Yes
N10	Yau Hong House	20	52	51	54	55	Yes
		25	51	50	54	55	Yes
		30	51	50	53	55	Yes
		35	51	49	53	55	Yes
		40	51	49	53	55	Yes
		1	51	53	55	55	Yes
		5	50	54	55	55	Yes
		10	49	54	55	55	Yes
		15	48	53	54	55	Yes
		20	47	51	53	55	Yes
N12	Yau Tai House	25	46	50	52	55	Yes
		30	46	50	51	55	Yes
		35	45	49	50	55	Yes
		40	44	49	50	55	Yes
		1	51	53	55	55	Yes
		5	50	54	55	55	Yes
		10	49	54	55	55	Yes
		15	48	53	54	55	Yes
		20	47	51	53	55	Yes
		25	46	50	52	55	Yes

Project : LRT Alterations EIA
Title : Predicted Cumulative Impacts for Tin Shui Wai Phase 4 - Up to 2011
Date : 11-Nov-99

NSR No.	Description	Floor Level	Predicted Noise Levels, dB(A)			Criterion, dB(A)	Compliance
			LRT	WR (12-car train)	Overall		
N15	The Church of Christ in China Hong Kong Council Feng Yun Wai School	1	56	0	56	65	Yes
		4	56	0	56	65	Yes
		7	55	0	55	65	Yes
		55	55	0	55	65	Yes
N18	3-storeys residential block	1	50	46	52	55	Yes
		2	50	46	52	55	Yes
		3	50	46	52	55	Yes
		52	52	53	54	55	Yes
N19	Tse Sum House (HOS)	1	47	54	54	55	Yes
		5	47	54	54	55	Yes
		10	47	54	55	55	Yes
		15	47	53	54	55	Yes
		20	47	51	53	55	Yes
		25	47	50	52	55	Yes
		30	46	50	51	55	Yes
		35	46	49	51	55	Yes
		40	46	49	50	55	Yes
		1	49	53	55	55	Yes
		5	49	54	55	55	Yes
		10	49	54	55	55	Yes
		15	48	53	54	55	Yes
		20	48	51	53	55	Yes
		25	47	50	52	55	Yes
		30	47	50	52	55	Yes
		35	47	49	51	55	Yes
		40	46	49	51	55	Yes
N22	Tse Yan House (HOS)	1	49	53	55	55	Yes
		5	49	54	55	55	Yes
		10	49	54	55	55	Yes
		15	48	53	54	55	Yes
		20	48	51	53	55	Yes
		25	47	50	52	55	Yes
		30	47	50	52	55	Yes
		35	47	49	51	55	Yes
		40	46	49	51	55	Yes
		1	51	0	51	65	Yes
N27	Tin Shui Wai Catholic Primary School (Hall)	4	51	0	51	65	Yes
		7	51	0	51	65	Yes
		1	46	0	46	55	Yes
		5	46	0	46	55	Yes
N29	Kenswood Court (Blk 14)	10	46	0	46	55	Yes
		15	45	0	45	55	Yes
		20	45	0	45	55	Yes
		25	44	0	44	55	Yes
		30	44	0	44	55	Yes
		35	43	0	43	55	Yes
		40	43	0	43	55	Yes
		1	54	0	54	55	Yes
N31	Lynwood Court (Blk 1)	5	54	0	54	55	Yes
		10	53	0	53	55	Yes
		15	53	0	53	55	Yes
		20	52	0	52	55	Yes
		25	51	0	51	55	Yes
		30	51	0	51	55	Yes
		35	50	0	50	55	Yes
		40	50	0	50	55	Yes
N33	Queen Elizabeth Old Student's Association Secondary School	1	52	0	52	65	Yes
		4	52	0	52	65	Yes
		7	52	0	52	65	Yes
		1	48	0	48	55	Yes
N38	Lynwood Court (Blk 10)	5	48	0	48	55	Yes

Project : LRT Alterations EIA
Title : Predicted Cumulative Impacts for Tin Shui Wai Phase 4 - Up to 2011
Date : 11-Nov-99

NSR No.	Description	Floor Level	Predicted Noise Levels, dB(A)			
			LRT	WR (12-cars train)	Overall	Criterion, dB(A)
		10	48	0	48	55
		13	48	0	48	55
		20	47	0	47	55
		25	47	0	47	55
		30	47	0	47	55
		35	46	0	46	55
		40	46	0	46	55

Note : (1) Daytime noise criterion for school is 65dB(A) with ASR "B"

APPENDIX 8 – Not Used

APPENDIX 9 – Fixed Plant Noise Assessment

Project : LRT Alteration EIA
Title : Assessment of Fixed Plant Noise Impacts
Date : 09-Sep-99

Prediction of Transformer Noise Impacts - LRT Phase 4 Extensions

Measured Data				Correction							SPL
SPL dB(A)	Dist m	No of TX	NSR	Dist m	No of TX	Dist dB(A)	No of TX dB(A)	Tonality dB(A)	Screening dB(A)	Facade dB(A)	SPL dB(A)
66	2	2	N10	140	4	-37	3	3	0	3	38
66	2	2	N18	120	4	-36	3	3	0	3	39

Noise source - Rectifier Station R14
N10 - Yau Hong House (see dwg GSA021/03/D02/002)
N18 - Village house (see dwg GSA021/03/D01/002)

APPENDIX 10 – Separation Distance of NSRs to Construction Sites

LRT Alterations EIA Tin Shui Wai Phase 4 Rail Extension - Construction Noise Assessment
Details of Separation Distances

Site Area	NSR	Description	Notional (1) source distance to NSR (m)	Daytime Construction Noise Criteria, dB(A)	Major Construction Works	NSR Building Height (2)
Tin Shui Wai Phase 4 Extension	N1	Queen Elizabeth School Old Student's Association Primary School	50	70 [3]	LRT at grade	L
	N2	Yiu Foo House	50	75	LRT at grade	H
	N4	Yiu Man House	65	75	LRT at grade	H
	N6	T.W.G.H.'s Kwok Yat Wai College	25	70 [3]	LRT at grade	L
	N7	Yiu Yat House	55	75	LRT at grade	H
	N10	Yau Hong House	70	75	LRT elevation	H
	N12	Yau Tai House	25	75	LRT elevation	H
	N14	Yiu Fung House	15	75	LRT at grade	H
	N15	The Church of Christ in China Hong Kong Council Fong Yun Wah School	20	70 [3]	LRT at grade	L
	N16	3-storey residential block	45	75	LRT at grade	L
	N17	3-storey residential block	50	75	LRT at grade	L
	N18	3-storey residential block	45	75	LRT at grade	L
	N21	Tse Yan House (Rental Block)	65	75	LRT elevation	M
	N22	Tse Yan House (HOS)	55	75	LRT elevation	H
	N23	Tez Ping House	60	75	LRT at grade	H
	N25	Buddhist To Chi Fat She Yeung Yat Lam Memorial School	110	70 [3]	LRT at grade	L
	N27	Tin Shui Wai Catholic Primary School	60	70 [3]	LRT at grade	L
	N29	Kenswood Court (Block 14)	45	75	LRT at grade	H
	N31	Lymwood Court (Block 1)	45	75	LRT at grade	H
	N33	Queen Elizabeth School Old Student's Association Secondary School	40	70 [3]	LRT at grade	L

Remarks:

* Basic daytime construction noise criterion is 75 dB(A), unless otherwise specified.

[1] Notional distance is determined in accordance with TM-CNV. For construction site of linear shape, dominant portion is defined having a length to width ratio of 5:1.

[2] NSR building height has been categorized as follows: (a) Type L for no. of floor <10; (b) Type M for floor between 10-20 and (c) Type H for no. of floor >20.

[3] Basic noise criterion of 70 dB(A) for school and 65 dB(A) during examination period.

[4] Cumulative noise impact of <2 dB(A) from West Rail construction works is applied to the basic noise criteria for these overlapping NSRs.

APPENDIX 11 – Construction Plant Inventory

LRT Altonations EIA Tin Shui Wai Phase 4 Rail Extension - Construction Noise Assessment
Sound Power Levels of Equipment
Construction Period: March 2001 to November 2003

Tin Shui Wai Phase 4 Extension							
Activity No	Activity	PME	TM Identification	Unit	SWL	Sum SWL	Duration (months)
A1	Site Clearance and Formation including laying and tamping of ballast	Excavator/loader	CNP081	2	112	115	12
		Roller, vibratory	CNP186	1	108	108	
		Dump Truck	CNP067	2	117	120	
		Lorry	CNP141	2	117	120	
		Total:			124		
A2	LR Stop Construction	Concrete Lorry Mixer	CNP044	2	109	112	18
		Poker Vibrator	CNP170	4	113	119	
		Lorry	CNP141	1	117	117	
		Bar Bender	CNP021	1	90	90	
		Total:			122		
A3	Piling	Piling, reverse circulation drill	CNP166	2	100	103	12
		Concrete Lorry Mixer	CNP044	2	109	112	
		Poker Vibrator	CNP170	4	113	119	
		Lorry	CNP141	1	117	117	
		Bar Bender	CNP021	1	90	90	
Total:			122				
A4	Pile Cap Construction	Excavator/loader	CNP081	1	112	112	6
		Concrete Lorry Mixer	CNP044	2	109	112	
		Poker Vibrator	CNP170	4	113	119	
		Lorry	CNP141	1	117	117	
		Bar Bender	CNP021	1	90	90	
Total:			122				
A5	Backfilling	Excavator/loader	CNP081	1	112	112	6
		Lorry	CNP141	1	117	117	
		Roller, vibratory	CNP186	1	108	108	
		Total:			119		
A6	Column Construction	Concrete Lorry Mixer	CNP044	2	109	112	6
		Poker Vibrator	CNP170	4	113	119	
		Mobile Crane	CNP048	1	112	112	
		Lorry	CNP141	1	117	117	
		Bar Bender	CNP021	1	90	90	
Total:			122				
A7	Superstructure Construction	Concrete Lorry Mixer	CNP044	2	109	112	12
		Poker Vibrator	CNP170	4	113	119	
		Mobile Crane	CNP048	1	112	112	
		Stressing rig *	-	2	110	113	
		Lorry	CNP141	1	117	117	
Bar Bender	CNP021	1	90	90			
Total:			123				
A8	Track Laying	Mobile Crane	CNP048	2	112	115	12
		Dump Truck	CNP067	1	117	117	
		Excavator	CNP081	1	112	112	
		Tamping Machine #	-	1	103	103	
Total:			120				
A9	Installation of Overhead Line Cable	Mobile Crane	CNP048	1	112	112	12
		Lorry	CNP141	1	117	117	
		Total:			118		

Remarks: * - SWL is assumed based on TM ref. CNP067 (March, pneumatic concrete).

Remarks: - SWL is assumed based on TM ref. CNP261 (Winch, pneumatic powered)
- SWL is taken from West Rail Final EIA Report

Tentative Major Completion Dates for Various Contracts that Interface with CC-220

Works	Tin Shui Wai Station		WR Viaduct at Lam Tei		Siu Hong Station		Tuen Mun Station		San Fat LR Stop	
Contract CC-	203 ^[1]	220 ^[2]	211 ¹	220 ²	212 ¹	220 ²	213 ¹	220 ²	213 ¹	220 ²
Bored Piling	09/06/00	03/01	27/09/00	12/01	17/02/00	12/01	11/12/00	01/04/01	27/04/00	01/04/01
Substructure Construction	05/07/00	09/01	15/12/00	06/02	13/03/00	06/02	18/01/01	01/10/01	20/06/00	01/10/01
Superstructure Construction	19/02/01	03/02	09/03/01	12/02	03/09/01	12/02	11/09/01	01/04/02	02/04/01	01/04/02

^[1] Construction completion date.

^[2] Construction start date.

APPENDIX 12 – Sound Power Level of Quiet Equipment

LRT Alterations EIA Tin Shui Wai Phase 4 Rail Extension - Construction Noise Assessment
 Sound Power Levels of Quiet Equipment
 Construction Period: March 2001 to November 2003

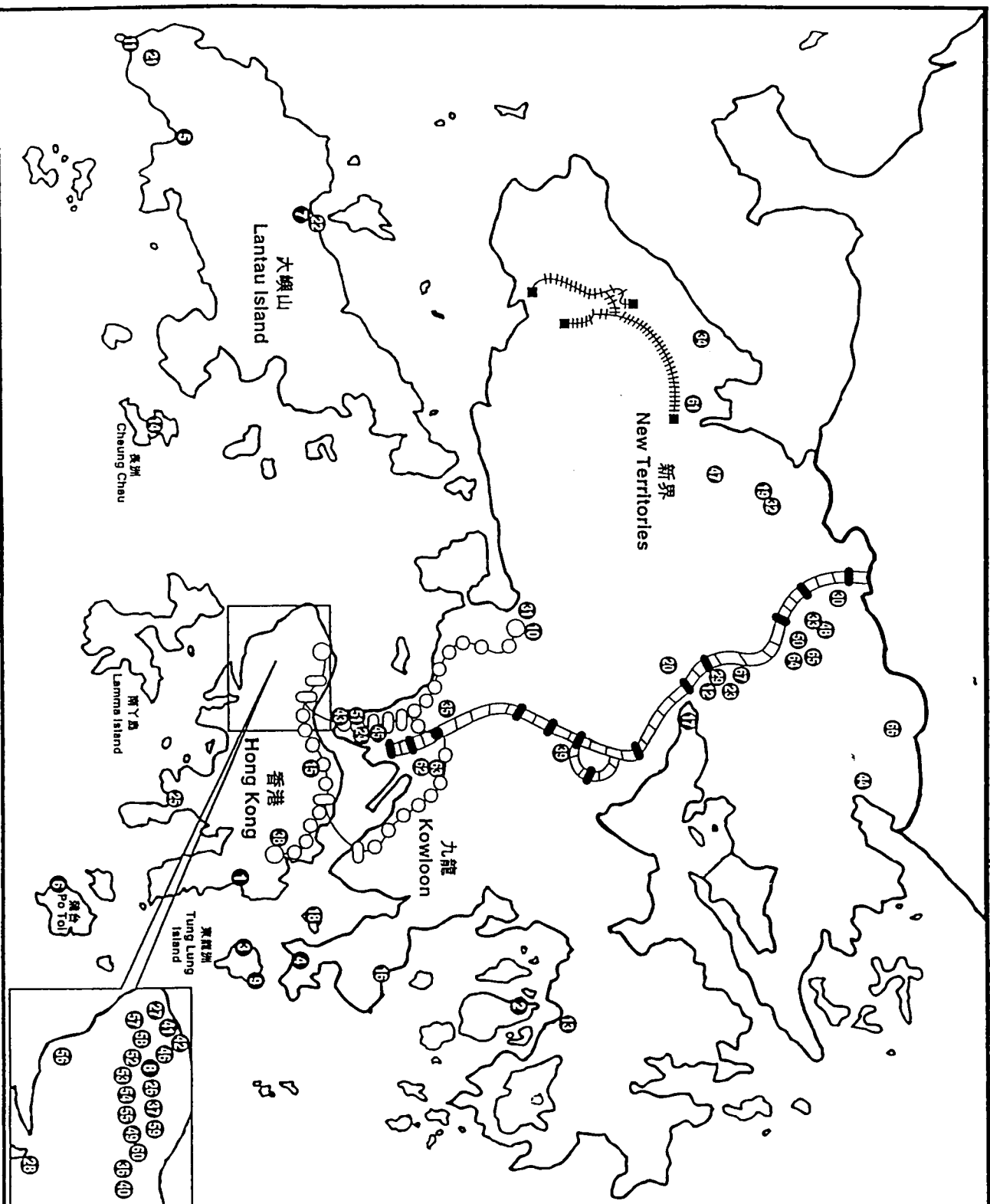
Tin Shui Wai Phase 4 Extension						
Activity No.	Activity	PME	TM Identification	Unit	SWL	Sum SWL
A1	Site Clearance and Formation including laying and tampering of ballast	Excavator/loader	CNP081	2	106	109
		Roller, vibrator	CNP186	1	102	102
		Dump Truck	CNP067	2	109	112
		Lorry	CNP141	2	105	108
		Total:				115
A2	LR Stop Construction	Concrete Lorry Mixer	CNP044	2	100	103
		Poker Vibrator	CNP170	4	102	108
		Lorry	CNP141	1	105	105
		Bar Bender	CNP021	1	90	90
		Total:				111
A3	Piling	Piling, reverse circulation drill	CNP166	2	100	103
		Concrete Lorry Mixer	CNP044	2	100	103
		Poker Vibrator	CNP170	4	102	108
		Lorry	CNP141	1	105	105
		Bar Bender	CNP021	1	90	90
A4	Pile Cap Construction	Excavator/loader	CNP081	1	106	106
		Concrete Lorry Mixer	CNP044	2	100	103
		Poker Vibrator	CNP170	4	102	108
		Lorry	CNP141	1	105	105
		Bar Bender	CNP021	1	90	90
A5	Backfilling	Excavator/loader	CNP081	1	106	106
		Lorry	CNP141	1	105	105
		Roller, vibrator	CNP186	1	102	102
		Total:				109
A6	Column Construction	Concrete Lorry Mixer	CNP044	2	100	103
		Poker Vibrator	CNP170	4	102	108
		Mobile Crane	CNP048	1	106	106
		Lorry	CNP141	1	105	105
		Bar Bender	CNP021	1	90	90
A7	Superstructure Construction	Concrete Lorry Mixer	CNP044	2	100	103
		Poker Vibrator	CNP170	4	102	108
		Mobile Crane	CNP048	1	106	106
		Strussing	-	2	110	113
		Lorry	CNP141	1	105	105
A8	Track Laying	Bar Bender	CNP021	1	90	90
		Total:				116
		Mobile Crane	CNP048	2	106	109
		Dump Truck	CNP067	1	109	109
		Excavator	CNP081	1	106	106
A9	Installation of Overhead Line Cable	Tampering Machine #	-	1	103	103
		Total:				113
		Mobile Crane	CNP048	1	106	106
		Lorry	CNP141	1	105	105
		Total:				109

Remarks: - SWL is assumed based on TM ref CNP261 (Winch, pneumatic powered)

- SWL is taken from West Rail Final EIA Report

APPENDIX 13 – List of Declared and Deemed Monuments

截至一九九九年一月一日 Declared Monuments as at 1 January 1999



- ①—⑥⑦ 法定古蹟
 Declared Monuments
- 九廣鐵路
 Kowloon-Canton Railway
 (KCR)
- 地下鐵路
 Mass Transit Railway
 (MTR)
- 輕便鐵路
 Light Transit Railway
 (LTR)

Declared Monuments as at 1 January 1999

1. Rock Carving at Big Wave Bay, Hung Kong Island
2. Rock Carving on Kau Sai Chau, Sai Kung
3. Rock Carving on Tung Lung Island, Sai Kung
4. Rock Inscription at Joss House Bay, Sai Kung
5. Rock Carving at Suck Pk, Lantau Island
6. Rock Carving on Po Tai Island
7. Tung Chung Fort, Lantau Island
8. Duddell Street Steps and Gas Lamps, Central
9. Tung Lung Fort, Tung Lung Island, Sai Kung
10. Sam Tung Uk Village, Tsuen Wan
11. Fan Lau Fort, Lantau Island
12. Old District Office North, Tai Po
13. Sheung Yiu Village, Sai Kung
14. Rock Carving on Cheung Chau
15. Tin Hau Temple, Causeway Bay
16. Rock Carving at Lung Ha Wan, Sai Kung
17. Island House, Yuen Chau Tsai, Tai Po
18. Site of Chinese Customs Station, Junk Island, Sai Kung
19. Man Lun Fung Ancestral Hall, San Tin, Yuen Lung
20. Remains of Ancient Kiln, Wun Yiu Village, Tai Po
21. Stone Circle, Fan Lau, Lantau Island
22. Tung Chung Battery, Lantau Island
23. Man Mo Temple, Tai Po
24. Hong Kong Observatory, Tsim Sha Tsui
25. Old Stanley Police Station
26. The Exterior of the Old Supreme Court, Central
27. The Exterior of the Main Building, the University of Hong Kong
28. Rock Carving at Wong Chuk Hang
29. Old Tai Po Market Railway Station
30. Liu Man Shek Tong Ancestral Hall, Sheung Shui
31. ~~Old House~~ ~~Hoi Pak Village, Tsuen Wan~~
32. Tai Fu Tai Mansion, San Tin, Yuen Lung
33. Kun Lung Gate Tower, Lung Yeuk Tau, Fanling
34. Yeung Hau Temple, Ha Tsuen, Yuen Lung
35. Lei Cheng Uk Han Tomb, Sham Shui Po
36. Flagstaff House, Cotton Tree Drive, Central
37. Former French Mission Building, Battery Path, Central
38. Law Uk Hakka House, Chai Wan
39. Old House, Wong Uk Village, Sha Tin
40. Old Wan Chai Post Office
41. Old Pathological Institute, Caine Lane, Sheung Wan
42. Western Market, Sheung Wan
43. Former Kowloon-Canton Railway Clock Tower, Tsim Sha Tsui
44. Kang Yung Study Hall, Sha Tau Kok
45. Former Kowloon British School, Tsim Sha Tsui
46. Main Building of St. Stephen's Girls' College, Lyttelton Road, Mid-Levels
47. Yi Tai Study Hall, Kam Tin, Yuen Lung
48. Enclosing Walls and Corner Watch Towers of Kun Lung Wai, Lung Yeuk Tau, Fanling
49. The Exterior of the Main Building, the Helena May, Garden Road, Central
50. Entrance Tower of Ma Wai Wai, Lung Yeuk Tau, Fanling
51. Former Marine Police Headquarters Compound, Tsim Sha Tsui
52. Former Gate Lodge, the Peak
53. Central Police Station Compound, Hollywood Road, Central
54. Former Central Magistracy, Arbutnot Road, Central
55. Victoria Prison Compound, Old Bailey Street, Central
56. The Exterior of University Hall, the University of Hong Kong
57. The Exterior of Hung Hing Ying Building, the University of Hong Kong
58. The Exterior of Tang Chi Ngong Building, the University of Hong Kong
59. Government House, Upper Albert Road, Central
60. St. John's Cathedral, Garden Road, Central
61. ~~Shing Temple, "~~ Wang Chau, Yuen Lung
62. Remains of the South Gate of Kowloon Walled City, Kowloon Walled City Park
63. Former Yamen Building of Kowloon Walled City, Kowloon Walled City Park
64. The Entrance Tower & the Enclosing Walls of Lo Wai, Lung Yeuk Tau, Fanling
65. Tang Chung Ling Ancestral Hall, Lung Yeuk Tau, Fanling
66. Cheung Shan Monastery, Ping Che, Fanling
67. King Law Ka Shuk Ancestral Hall, Tai Po Tau Tsuen, Tai Po

Deemed Monuments as at 1 January 1999

1. Kun Ting Study Hall, Ping Shan, Yuen Lung
2. Hau Kiu Shek Ancestral Hall, Ho Sheung Heung, Sheung Shui
3. Tsui Shing Lau Pagoda, Ping Shan, Yuen Lung
4. Ching Shui Tin, Ping Shan, Yuen Lung
5. Yu Kiu Ancestral Hall, Ping Shan, Yuen Lung
6. Entrance Hall of Shui Hing Study Hall, Ping Shan, Yuen Lung
7. Tang Kwong U Ancestral Hall, Kam Tin, Yuen Lung
8. Cheung Chun Yuen, Kam Tin, Yuen Lung

截至 1999 年 1 月 1 日的法定古蹟

1. 港島大浪灣石刻
2. 西貢得西洲石刻
3. 西貢東龍洲石刻
4. 西貢大廟灣石刻
5. 大嶼山石壁石刻
6. 蒲台島石刻
7. 大嶼山東涌炮台
8. 中環都爹利街石階及煤氣路燈
9. 西貢東龍洲炮台
10. 荃灣三棟屋村
11. 大嶼山分流炮台
12. 大埔舊北區理民府
13. 西貢上營村
14. 長洲石刻
15. 銅鑼灣天后廟
16. 西貢龍蝦灣石刻
17. 大埔元洲仔前政務司官邸
18. 西貢佛頭洲稅關遺址
19. 元朗新田縣署文公祠
20. 大埔碗窰村古窑遺址
21. 大嶼山分流石圍環
22. 大嶼山東涌小炮台
23. 大埔文武二帝廟
24. 尖沙咀香港天文台
25. 舊赤柱警署
26. 中環舊最高法院外部
27. 香港大學本部大樓外部
28. 黃竹坑石刻
29. 舊大埔墟火車站
30. 上水廖萬石堂
31. 荃灣海墘村民宅
32. 元朗新田大夫第
33. 粉嶺龍躍頭龍園門樓
34. 元朗厦村楊侯宮
35. 深水埗李鄭屋漢墓
36. 中環紅棉道舊三軍司令官邸
37. 中環炮台里前法國外方傳道會大樓
38. 柴灣羅屋
39. 沙田王屋村民宅
40. 舊灣仔郵政局
41. 上環聖老辣理學院
42. 舊上環街市
43. 尖沙咀前九龍鐵路鐘樓
44. 沙頭角統籌處
45. 尖沙咀前九龍英童學校
46. 半山區列提頓道聖士提反女子中學主樓
47. 元朗錦田二帝書院
48. 粉嶺龍躍頭龍園圍牆及更樓
49. 中環花園道梅夫人婦女會主樓外部
50. 粉嶺龍躍頭麻笏圍門樓
51. 尖沙咀前水警總部
52. 舊總督山頂別墅守衛室
53. 中環荷李活道中區警署
54. 中環亞畢諾道前中央裁判司署
55. 中環奧卑利街域多利監獄
56. 香港大學大學堂外部
57. 香港大學孔慶葵樓外部
58. 香港大學鄧志昂樓外部
59. 中環上亞厘畢道前總督府
60. 中環花園道聖約翰座堂
61. 元朗橫洲二聖宮
62. 九龍寨城公園九龍寨城南門遺址
63. 九龍寨城公園前九龍寨城衙門
64. 粉嶺龍躍頭老圍門樓及圍牆
65. 粉嶺龍躍頭松嶺郭公祠
66. 粉嶺坪輦長山古寺
67. 大埔大埔頭村敬羅家塾

截至 1999 年 1 月 1 日的認定古蹟

1. 元朗屏山觀廷書室
2. 上水河上鄉居石侯公祠
3. 元朗屏山聚星樓
4. 元朗屏山浩善軒
5. 元朗屏山愈喬公祠
6. 元朗屏山述卿書室前廳
7. 元朗錦田廣翰郭公祠
8. 元朗錦田長春園

APPENDIX 14 – Photos Taken During Field Evaluation

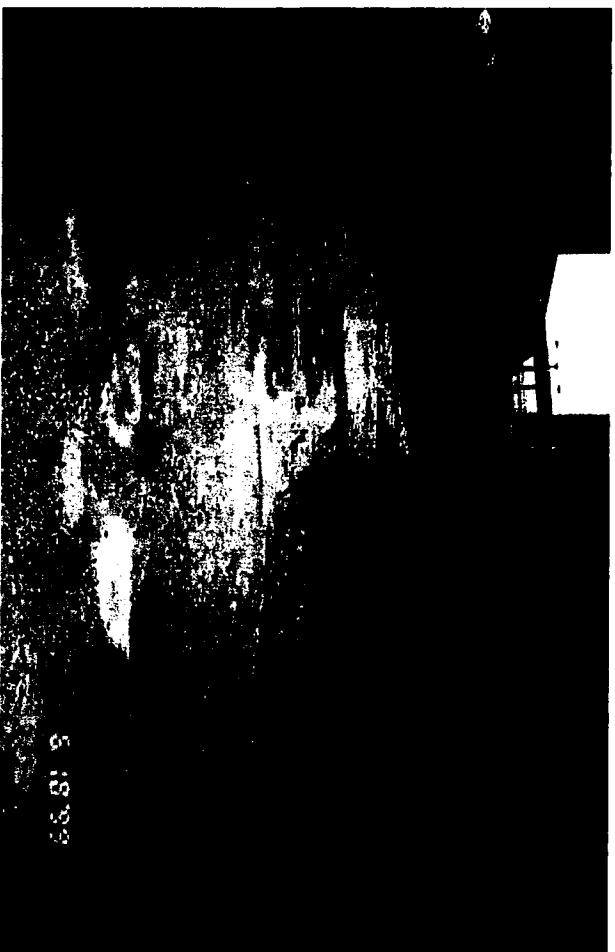


Photo 1 – Existing LRT Reserve in Tin Shui Wai Phase 4

APPENDIX 15 – Letter from TDD



九廣鐵路公司
Kowloon-Canton Railway Corporation

西鐵部 West Rail Division

Our Ref.: WRICRN1999-0087012
Your Ref: GSA021-000112

4 November, 1999
(By Fax 22683950 & by Hand)

Ove Arup & Partners Hong Kong Ltd
Level 5 Festival Walk
80 Tat Chee Avenue
Kowloon Tong, Hong Kong

Attn: Mr. Sam Tsui

Subject: **KCRC West Rail**
Light Rail Transits Alterations - EIA
Re: Additional Information for Submission to EPD

Dear Sam,

Enclosed please find the self-explanatory letter from TDD ref: NTN/RU2/12/65 dated 3 November 1999 for your incorporation into the final EIA Reports.

Yours sincerely,

Vic McNally
Environmental Manager

VM/AP/dl

Response Required: No
Attachment: Yes

c.c. Billy Tam

FAXED
DATE: Nov 4 1999

URGENT BY FAX & POST
(Fax No. 2601 5287)

IR1-0000171773

04 NOV 1999

RECEIVED
KCRC WIN DOC

新界北拓展處
NEW TERRITORIES NORTH
DEVELOPMENT OFFICE

拓展處
Territory Development
Department, Hong Kong

圖文傳真 Our Fax No. 2603 2918

來函編號 Your Reference

本處編號 Our Reference

電話 Telephone

日期 Date

(4) in NTN/RU 2/12/65 Pt. XII

2684 1763

3 November 1999

Kowloon-Canton Railway Corporation

West Rail Division

7/F, Citylink Plaza,

Sha Tin, N.T.

(Attn: Mr McNally)

Dear Sirs,

PWP Item No. B563CL
Tin Shui Wai further development
road junction improvement, site formation
and main engineering infrastructure

KCRC West Rail
Tin Shui Wai Reserve Zone
Light Rail Extension
Gazette under Railways Ordinance

I refer to the telephone conversation between Messrs McNally/S. W. Wong on 3.11.99.

As discussed, I confirm that planters constructed under TDD's further development project, including those along the future LRT reserve, will be handed over to Highways Department and Regional Services Department for maintenance of the landscape hardwork and softwork respectively.

Yours faithfully,

(S.W. WONG)
for Project Manager/NT North

c.c. NTN/RU 2/12/25

HWL/SWW/





URGENT

九廣鐵路公司
Kowloon-Canton Railway Corporation
西鐵部 West Rail Division

Comm Ref: WRI/CRN1999-0090968

11 November 1999

Ove Arup and Partners Hong Kong Limited
Level 5 Festival Walk
Tat Chee Avenue
Kowloon Tong
Kowloon, Hong Kong

By fax and post
Fax No. 2268 3950

Attn: Mr Sam Tsoi

**Subject: KCRC West Rail
Contract No GSA-021 LRT Alterations
Environmental Impact Assessment
Light Rail Extension in Tin Shui Wai Reserve Zone**

Dear Sam

I refer to TDD's letter ref (14) in NTN/RU 2/12/65 Pt XII of 3 November 1999 and confirm with TDD that the landscape hardware and software will be completed under ongoing TDD construction contracts before March 2001.

Yours sincerely,

Vic McNally
Environmental Manager

VM/AP/dl

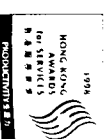
cc PM/NTN (Attention: Mr S W Wong)
CM-LR

Response Required: No
Due Date: N/A
Attachments: No
Subject Code: EN101

香港特別行政區運輸局七樓
7/F Transport Plaza Sha Tin, N.T., Hong Kong
Tel: (852) 2612 2624 Fax: (852) 2610 5287



100-000-1000
Environmental Protection
Department
Tel No: (852) 2610 5287



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