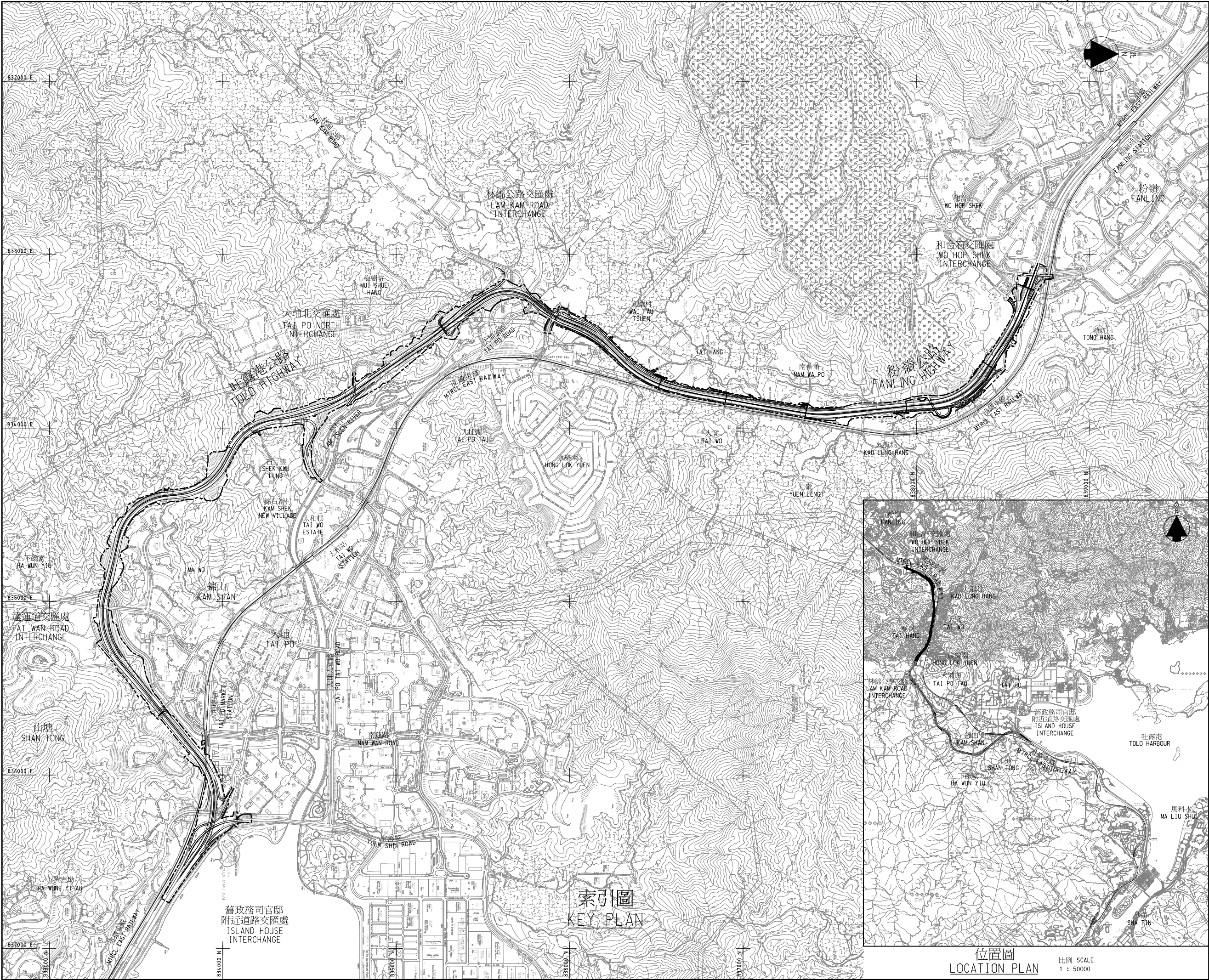


Appendix A

Location Plan, Layout of Noise Barriers and Changes Since the Approved EIA Report

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索引圖
KEY PLAN



位置圖
LOCATION PLAN

比例 SCALE
1 : 50000

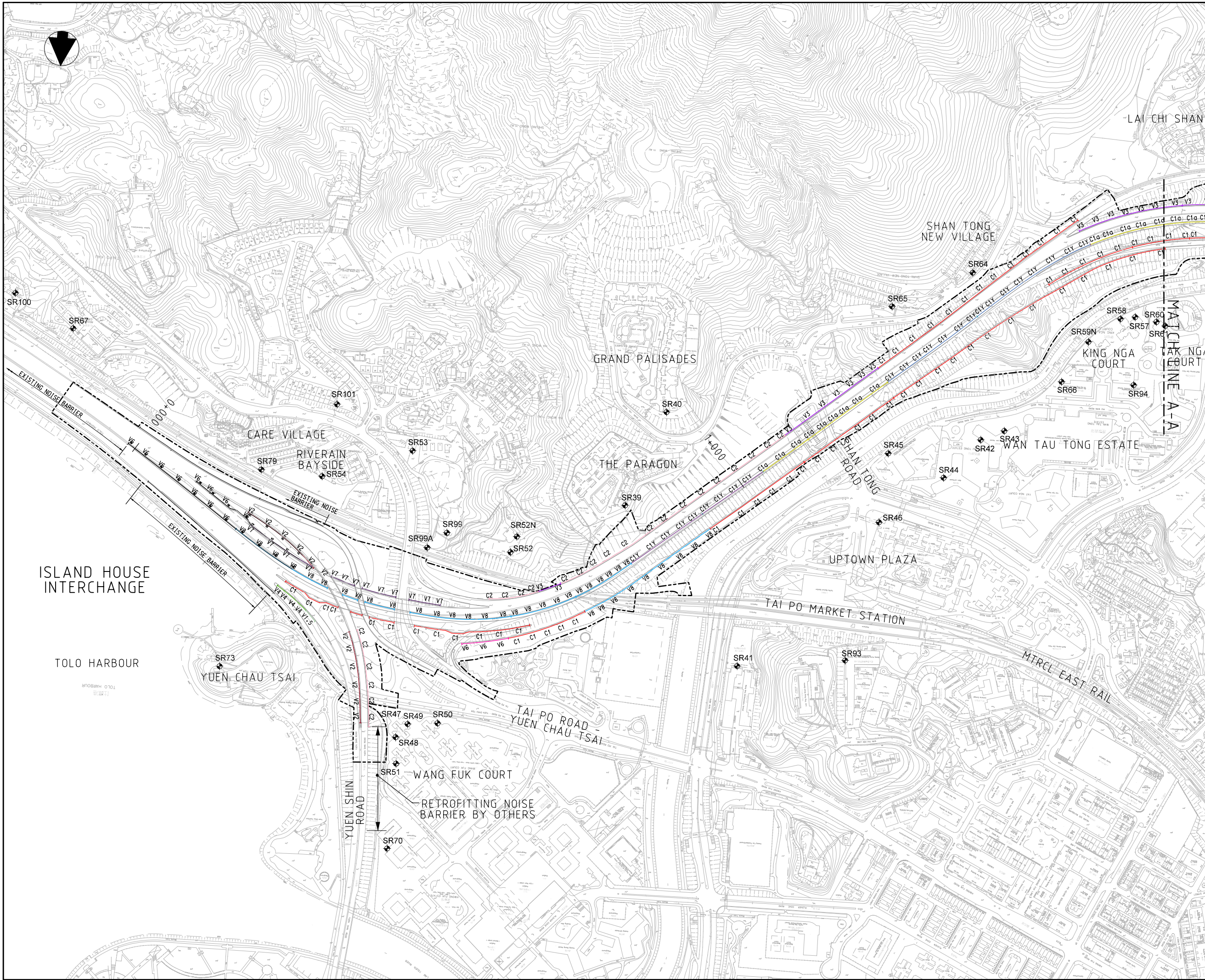
註釋 NOTES :

- 除在其他方面表明外，所有量度均以米為單位
ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
- 所有水平均為約數，以米為單位，並基於香港主水平基準上
ALL LEVELS ARE APPROXIMATE VALUES AND IN METRES ABOVE HONG KONG PRINCIPAL DATUM.
- 如有需要，施工區界限內的現有行車道、行人路、單車徑及過道的部分路段或會分段臨時封閉
SECTIONS OF EXISTING CARRIAGEWAYS, FOOTPATHS, CYCLE TRACKS AND ACCESS TRACKS WITHIN LIMIT OF WORKS AREA MAY BE TEMPORARILY CLOSED IN PHASES AS AND WHEN REQUIRED.

圖例 LEGEND :

—— 施工區界限
LIMIT OF WORKS AREA

REV. 修訂	DATE 日期	DESCRIPTION 內容摘要	CHECKED 覆核	APPRO. 批准人
REVISION				
DESIGNED 設計		V. CHIU	CHECKED 覆核	T. CHAN
DRAWN 繪圖		B. FOOK	CHECKED 覆核	V. CHIU
APPROVED FOR ISSUE 批准人		T. CHAN	© Copyright Reserved 版權所有	
DATE 日期		HAN 2008	All dimensions are in mm unless shown otherwise. No measurement should be taken from drawing directly.	
SCALE 比例		AS SHOWN		
CAD REF. 檔案名稱		APPENDIX-A-1		
PROJECT TITLE 工程項目				
Agreement No. CE 58/2000 Design and Construction Assignment for Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling				
CLIENT 工程委託				
路政署 HIGHWAYS DEPARTMENT 主要工程管理局 MAJOR WORKS PROJECT MANAGEMENT OFFICE				
				
CONSULTANT 工程顧問				
   BLACK & VEATCH				
DRAWING TITLE 圖名				
LOCATION PLAN				
STATUS 階段				
DRAWING NO. 圖號				
APPENDIX-A-1				
REV. 修訂				
-				



LEGEND :

- LIMIT OF WORKS AREA
- SR1 NOISE SENSITIVE RECEIVER
- V1 PROPOSED VERTICAL NOISE BARRIER 1m HIGH
- V1.5 PROPOSED VERTICAL NOISE BARRIER 1.5m HIGH
- V2 PROPOSED VERTICAL NOISE BARRIER 2m HIGH
- V3 PROPOSED VERTICAL NOISE BARRIER 3m HIGH
- V4 PROPOSED VERTICAL NOISE BARRIER 4m HIGH
- V5 PROPOSED VERTICAL NOISE BARRIER 5m HIGH
- V6 PROPOSED VERTICAL NOISE BARRIER 6m HIGH
- V7 PROPOSED VERTICAL NOISE BARRIER 7m HIGH
- V8 PROPOSED VERTICAL NOISE BARRIER 8m HIGH
- C1a PROPOSED C1 NOISE BARRIER FACING FANLING BOUND
- C1b PROPOSED C1 NOISE BARRIER FACING KOWLOON BOUND
- C1Y PROPOSED C1 NOISE BARRIER (Y SHAPED)
- C2a PROPOSED C2 NOISE BARRIER FACING FANLING BOUND
- C1 PROPOSED C1 ROAD SIDE BARRIER CARRIAGEWAY
- C2 PROPOSED C2 ROAD SIDE BARRIER CARRIAGEWAY

NOISE BARRIER TYPES:

- C1, C1a, C1b TYPE NOISE BARRIER
- C2 NOISE BARRIER
- C1Y NOISE BARRIER

REV.	DATE	DESCRIPTION	CHECKED	APPROVED
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2	2007	DRAWN	V. CHIU	
3	2007	APPROVED FOR ISSUE		
4	2007	DATE		
5	2007	SCALE		
6	2007	CAD REF.		

REVISION

NO.	DESCRIPTION	DATE
1	DESIGNED	2007
2	DRAWN	2007
3	APPROVED FOR ISSUE	2007
4	DATE	2007
5	SCALE	2007
6	CAD REF.	2007

PROJECT TITLE
工程項目

Agreement No. CE 58/2000
Design and Construction Assignment for
Widening of Tolo Highway / Fanling Highway
between Island House Interchange and Fanling

CLIENT
路政署
HIGHWAYS DEPARTMENT
主要工程管理處
MAJOR WORKS PROJECT MANAGEMENT OFFICE

CONSULTANT
工程顧問

Hyder Consulting
ARUP
BLACK & VEATCH

DRAWING TITLE
圖名

LAYOUT OF NOISE BARRIERS

SHEET 1 OF 5

STATUS
階段

ENVIRONMENT REPORT

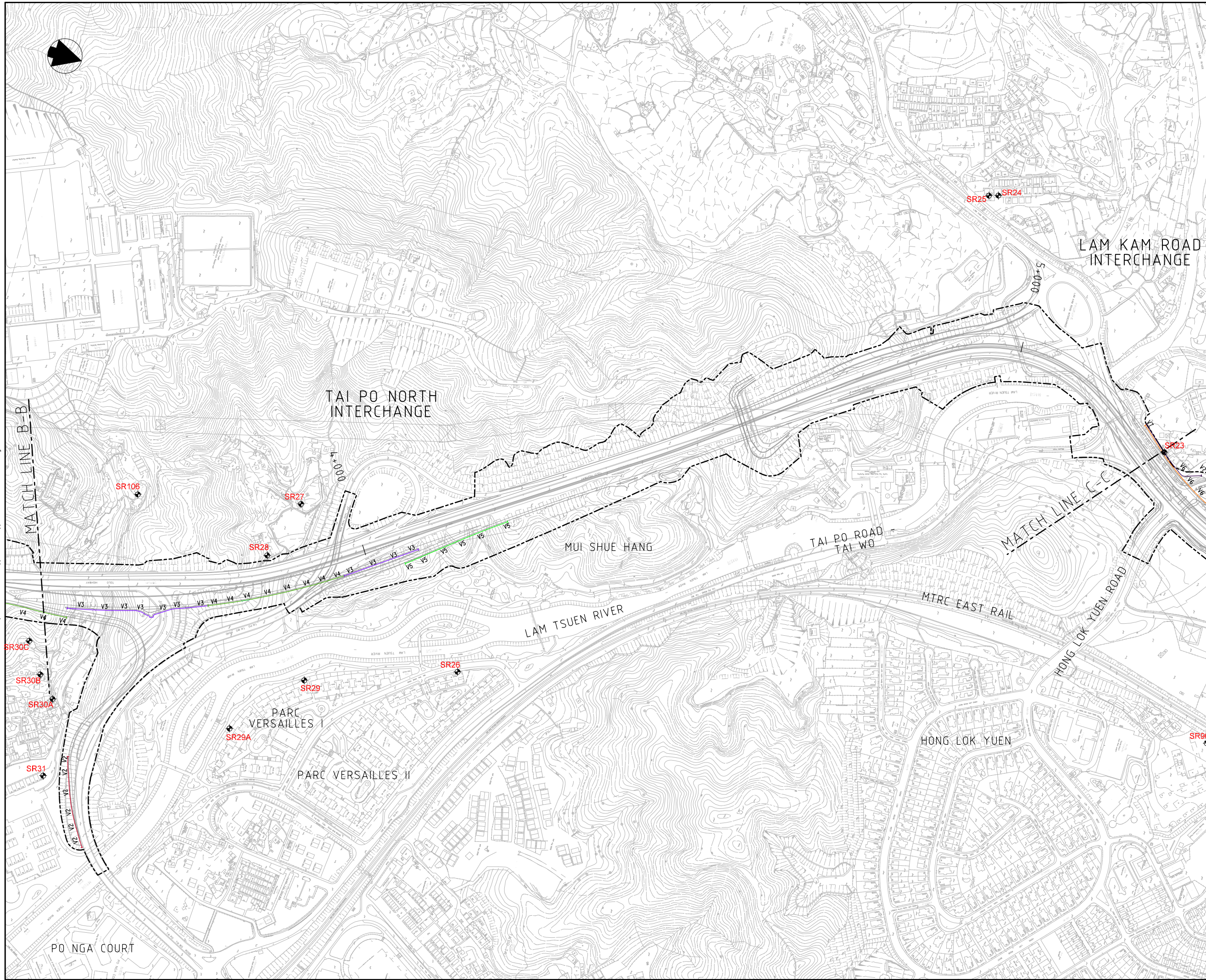
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圖號

APPENDIX A

REV.
修訂

B

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LEGEND :

- LIMIT OF WORKS AREA
- SR1 NOISE SENSITIVE RECEIVER
- V2 PROPOSED VERTICAL NOISE BARRIER 2m HIGH
- V3 PROPOSED VERTICAL NOISE BARRIER 3m HIGH
- V4 PROPOSED VERTICAL NOISE BARRIER 4m HIGH
- V5 PROPOSED VERTICAL NOISE BARRIER 5m HIGH
- V6 PROPOSED VERTICAL NOISE BARRIER 6m HIGH
- V7 PROPOSED VERTICAL NOISE BARRIER 7m HIGH
- V8 PROPOSED VERTICAL NOISE BARRIER 8m HIGH
- C1a PROPOSED C1 NOISE BARRIER FACING FANLING BOUND
- C1b PROPOSED C1 NOISE BARRIER FACING KOWLOON BOUND
- C1Y PROPOSED C1 NOISE BARRIER (Y SHAPED)
- C2a PROPOSED C2 NOISE BARRIER FACING FANLING BOUND
- C1 PROPOSED C1 ROAD SIDE BARRIER (CARRIAGEWAY)
- C2 PROPOSED C2 ROAD SIDE BARRIER (CARRIAGEWAY)

C1,C1a,C1b TYPE NOISE BARRIER

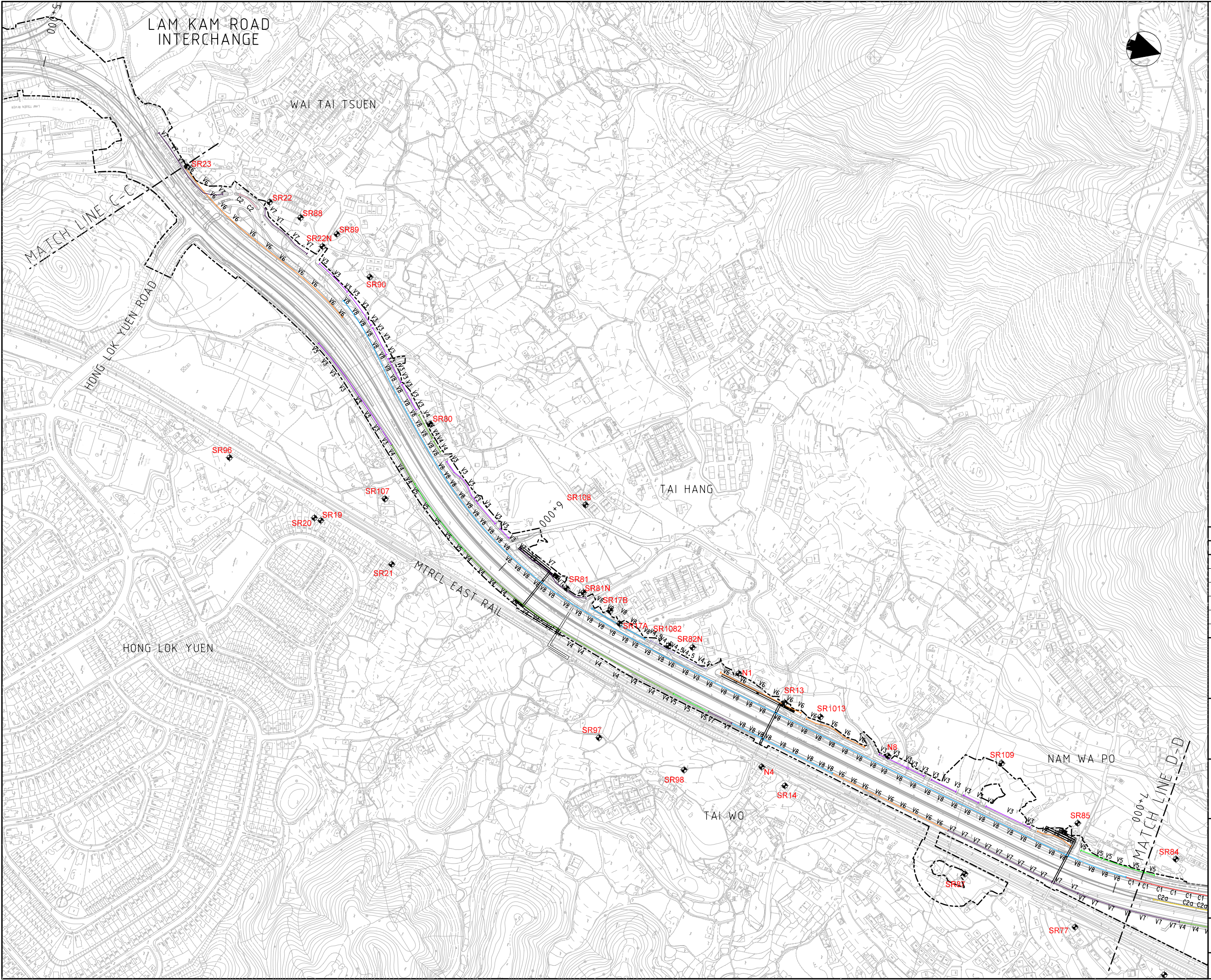
C2 NOISE BARRIER

C1Y NOISE BARRIER

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2	2008/02/06	DRAWN	B. FOOK	V. CHIU
3	2008/02/06	APPROVED FOR ISSUE	T. CHAN	
4	2008/02/06	DATE	DEC 2007	
5	2008/02/06	SCALE	A3 = 1 : 5000	
6	2008/02/06	CAD REF.	APPENDIX.DGN	
7	2008/02/06	PROJECT TITLE	Agreement No. CE 58/2000 Design and Construction Assignment for Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling	
8	2008/02/06	CLIENT	路政署 HIGHWAYS DEPARTMENT 主要工程管理處 MAJOR WORKS PROJECT MANAGEMENT OFFICE	
9	2008/02/06	CONSULTANT	Hyder ARUP BLACK & VEATCH	
10	2008/02/06	DRAWING TITLE	LAYOUT OF NOISE BARRIERS	
11	2008/02/06	STATUS	ENVIRONMENT REPORT	
12	2008/02/06	DRAWING NO.	APPENDIX A	
13	2008/02/06	REV.		

SHEET 3 OF 5

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LEGEND :

- LIMIT OF WORKS AREA
- SR1 NOISE SENSITIVE RECEIVER
- V2 PROPOSED VERTICAL NOISE BARRIER 2m HIGH
- V3 PROPOSED VERTICAL NOISE BARRIER 3m HIGH
- V4 PROPOSED VERTICAL NOISE BARRIER 4m HIGH
- V5 PROPOSED VERTICAL NOISE BARRIER 5m HIGH
- V6 PROPOSED VERTICAL NOISE BARRIER 6m HIGH
- V7 PROPOSED VERTICAL NOISE BARRIER 7m HIGH
- V8 PROPOSED VERTICAL NOISE BARRIER 8m HIGH
- C1a PROPOSED C1 NOISE BARRIER FACING FANLING BOUND
- C1b PROPOSED C1 NOISE BARRIER FACING KOWLOON BOUND
- C1Y PROPOSED C1 NOISE BARRIER (Y SHAPED)
- C2a PROPOSED C2 NOISE BARRIER FACING FANLING BOUND
- C1 PROPOSED C1 ROAD SIDE BARRIER (CARRIAGEWAY)
- C2 PROPOSED C2 ROAD SIDE BARRIER (CARRIAGEWAY)

C1,C1a,C1b TYPE NOISE BARRIER

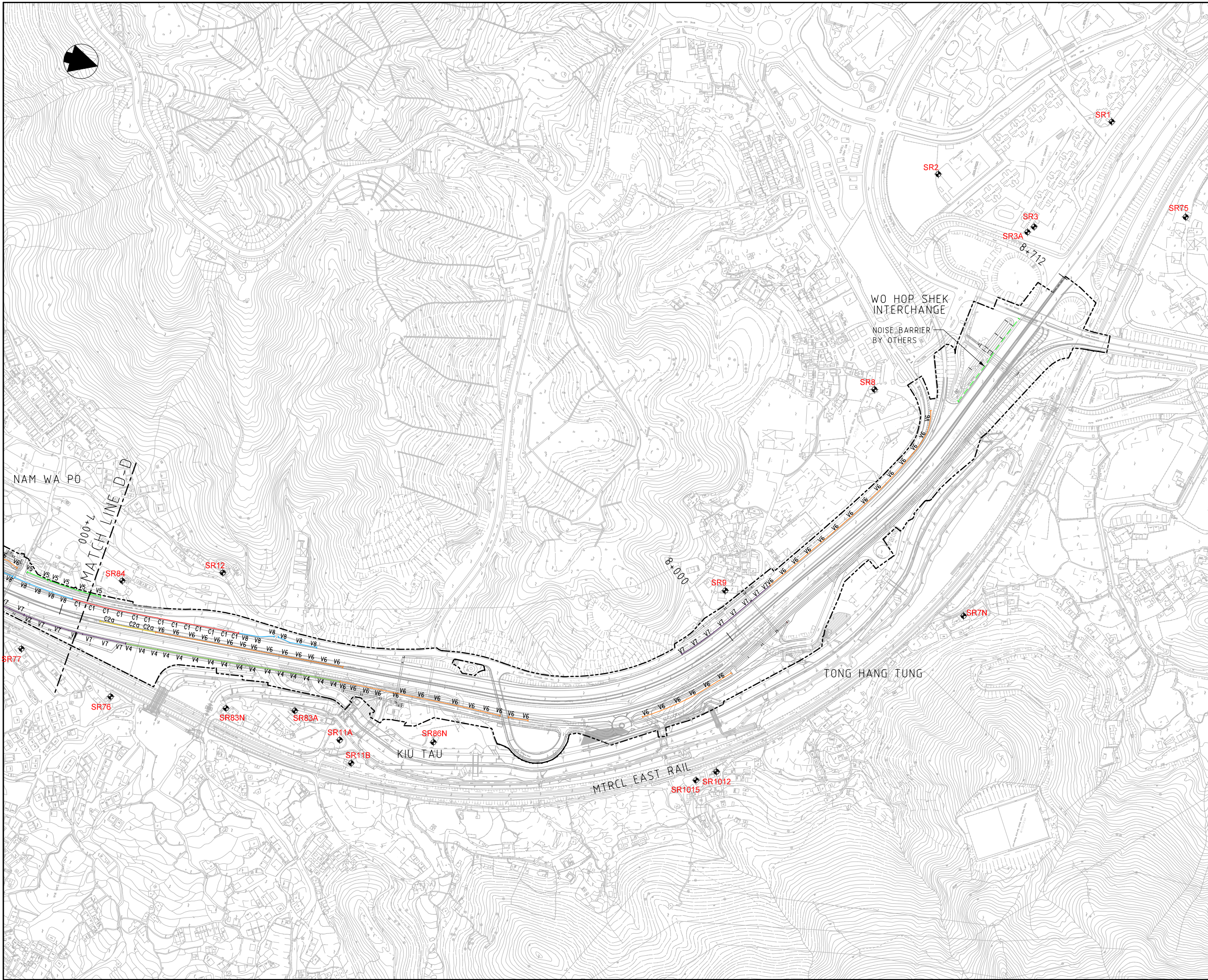
C2 NOISE BARRIER

C1Y NOISE BARRIER

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2	2008-02-05	DRAWN	B. FOOK	V. CHIU
3	2008-02-05	APPROVED FOR ISSUE	T. CHAN	
4	2008-02-05	DATE	DEC 2007	
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7	2008-02-05	PROJECT TITLE	Agreement No. CE 58/2000 Design and Construction Assignment for Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling	
8	2008-02-05	CLIENT	路政署 HIGHWAYS DEPARTMENT 主要工程管理部 MAJOR WORKS PROJECT MANAGEMENT OFFICE	
9	2008-02-05	CONSULTANT	Hyder ARUP BLACK & VEATCH	
10	2008-02-05	DRAWING TITLE	LAYOUT OF NOISE BARRIERS	
11	2008-02-05	STATUS	ENVIRONMENT REPORT	
12	2008-02-05	DRAWING NO.	APPENDIX A	

SHEET 4 OF 5

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LEGEND :

- LIMIT OF WORKS AREA
- SR1 NOISE SENSITIVE RECEIVER
- V2 PROPOSED VERTICAL NOISE BARRIER 2m HIGH
- V3 PROPOSED VERTICAL NOISE BARRIER 3m HIGH
- V4 PROPOSED VERTICAL NOISE BARRIER 4m HIGH
- V5 PROPOSED VERTICAL NOISE BARRIER 5m HIGH
- V6 PROPOSED VERTICAL NOISE BARRIER 6m HIGH
- V7 PROPOSED VERTICAL NOISE BARRIER 7m HIGH
- V8 PROPOSED VERTICAL NOISE BARRIER 8m HIGH
- C1a PROPOSED C1 NOISE BARRIER FACING FANLING BOUND
- C1b PROPOSED C1 NOISE BARRIER FACING KOWLOON BOUND
- C1Y PROPOSED C1 NOISE BARRIER (Y SHAPED)
- C2a PROPOSED C2 NOISE BARRIER FACING FANLING BOUND
- C1 PROPOSED C1 ROAD SIDE BARRIER CARRIAGEWAY
- C2 PROPOSED C2 ROAD SIDE BARRIER CARRIAGEWAY

C1,C1a,C1b TYPE NOISE BARRIER

C2 NOISE BARRIER

C1Y NOISE BARRIER

REV.	DATE	DESCRIPTION	CHECKED	APPROVED
1	2008/07/24	APPENDIX A.DGN		

REVISION

DESIGNED	CHECKED
設計 V. CHIU	審核 T. CHAN
DRAWN	CHECKED
繪圖 B. FOOK	覆核 V. CHIU
APPROVED FOR ISSUE	Copyright Reserved
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日期 DEC 2007	No measurement should be taken from drawing directly.
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工程項目	

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

CLIENT
工程委託
路政署
HIGHWAYS DEPARTMENT
主要工程管理處
MAJOR WORKS PROJECT MANAGEMENT OFFICE

CONSULTANT
工程顧問
Hyder
Consulting
ARUP
BLACK & VEATCH

DRAWING TITLE
圖名
LAYOUT OF NOISE BARRIERS

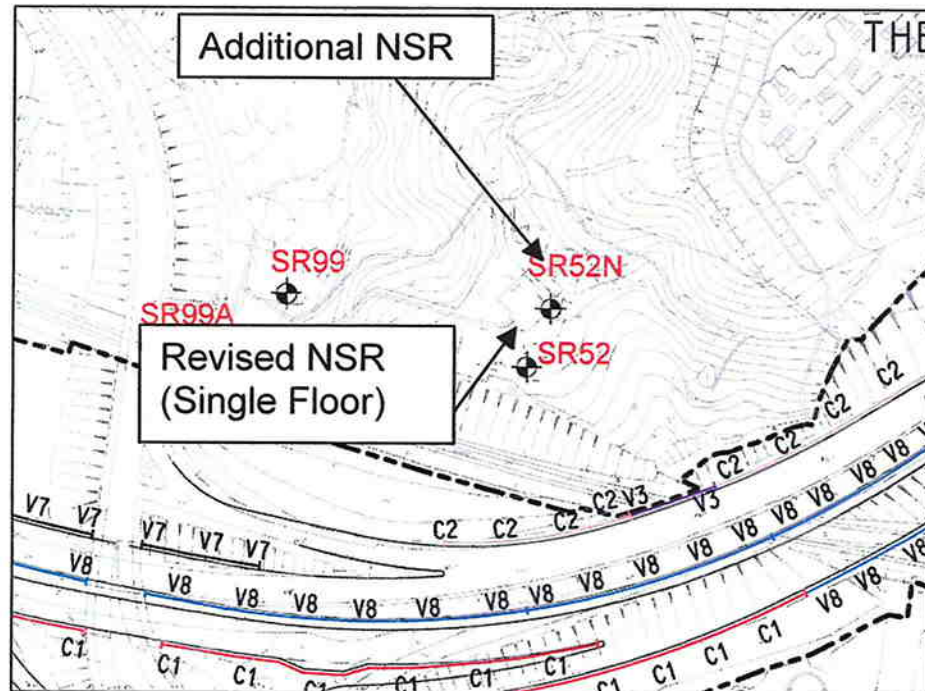
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APPENDIX A

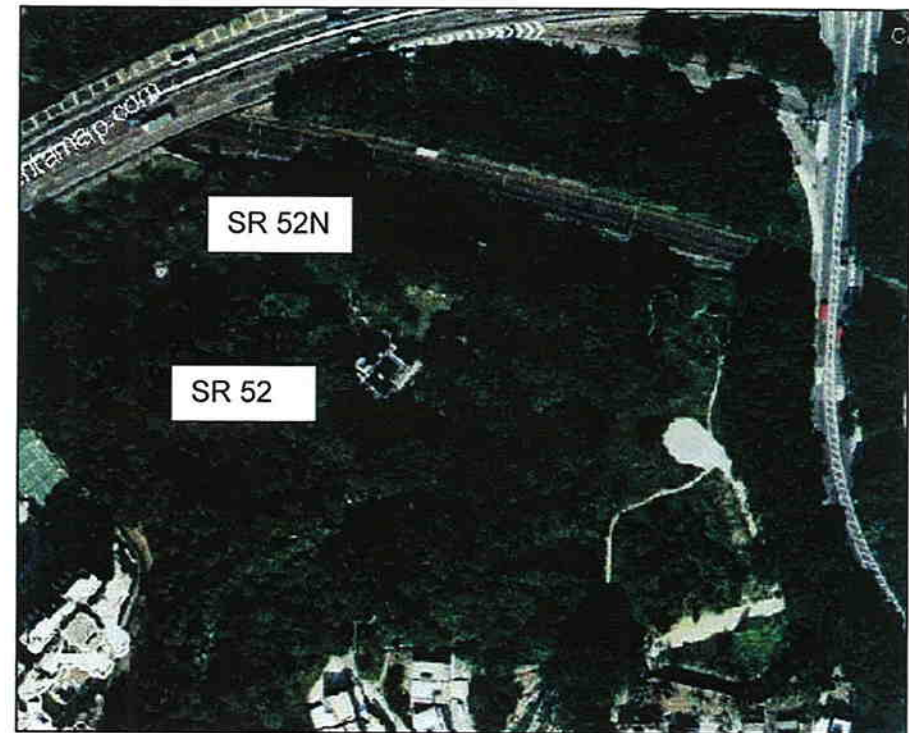
REV.
修訂
A

SHEET 5 OF 5

Appendix A-3a

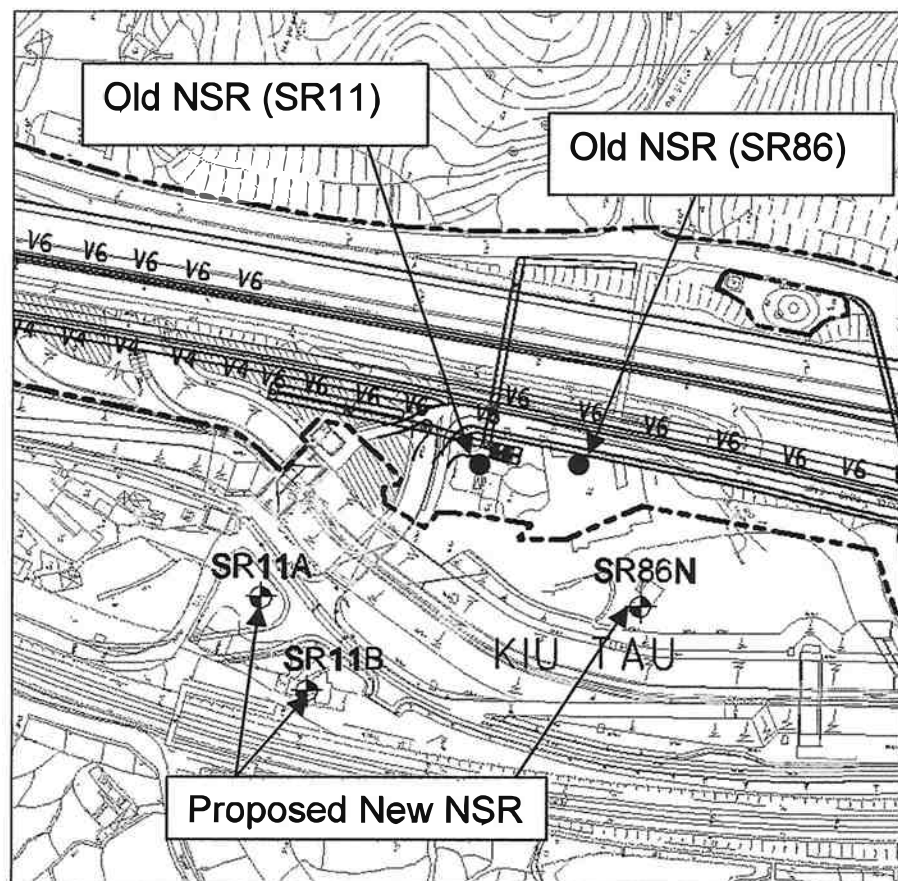


Proposed Change of Sensitive Receivers near Island House (SR 52 and 52N)

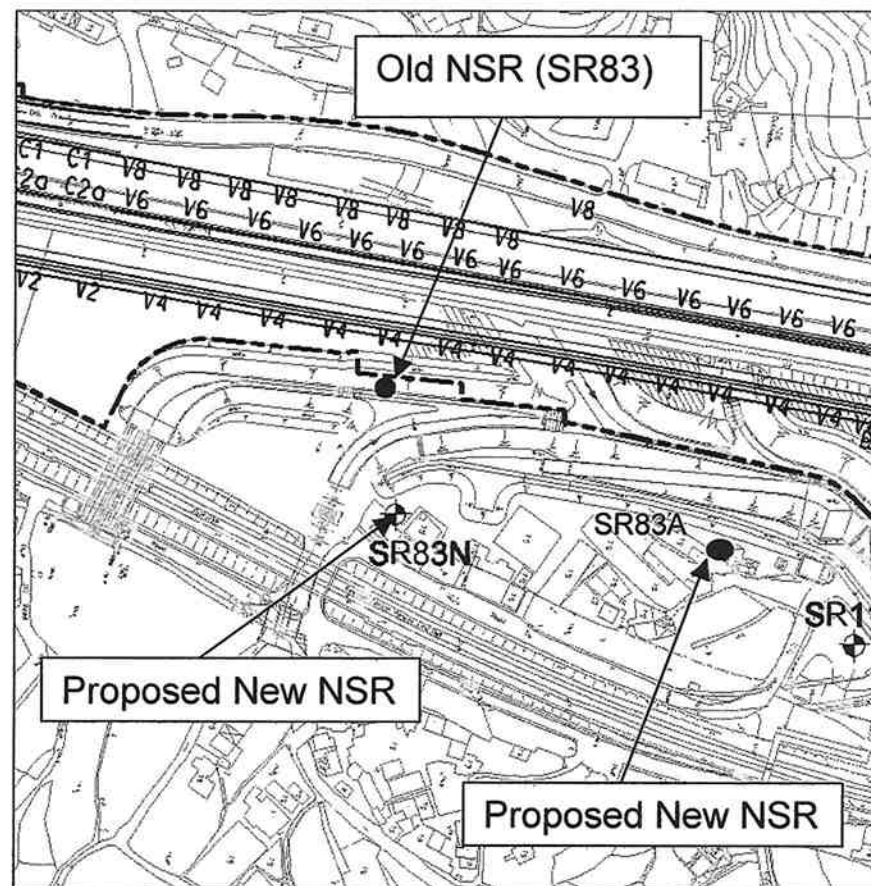


SR 52 and SR 52N near Tai Po Road – Aerial View

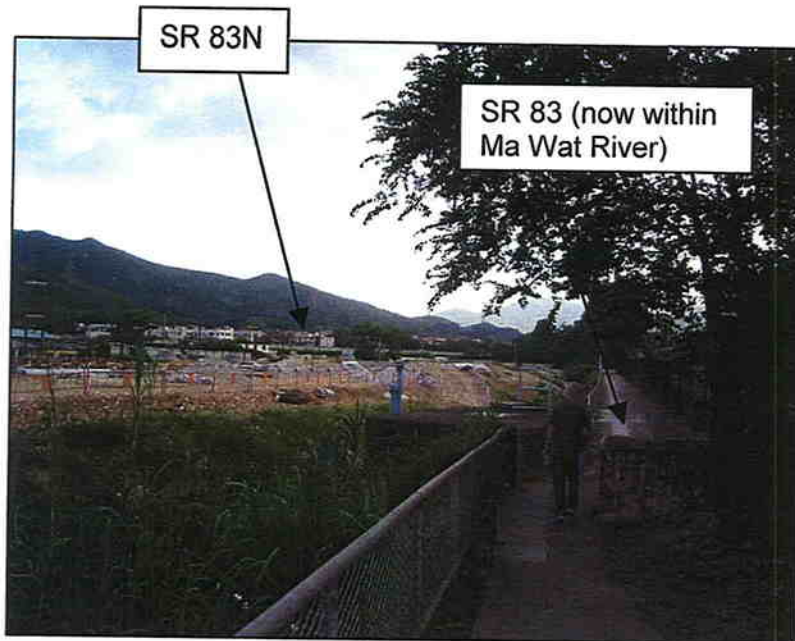
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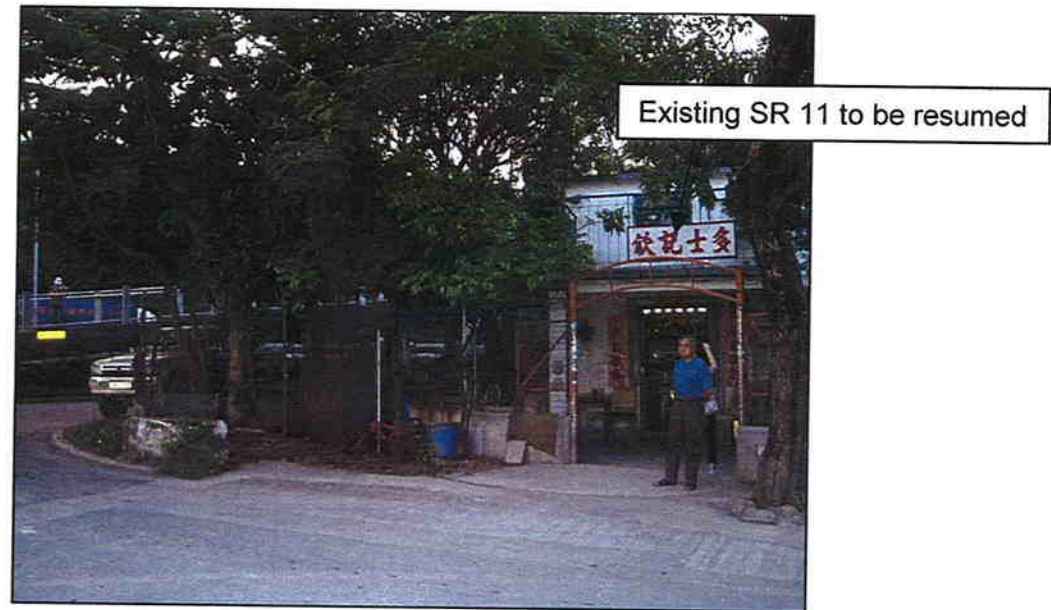
Proposed Change of Sensitive Receivers near Kiu Tau (SR 11A and 11B)



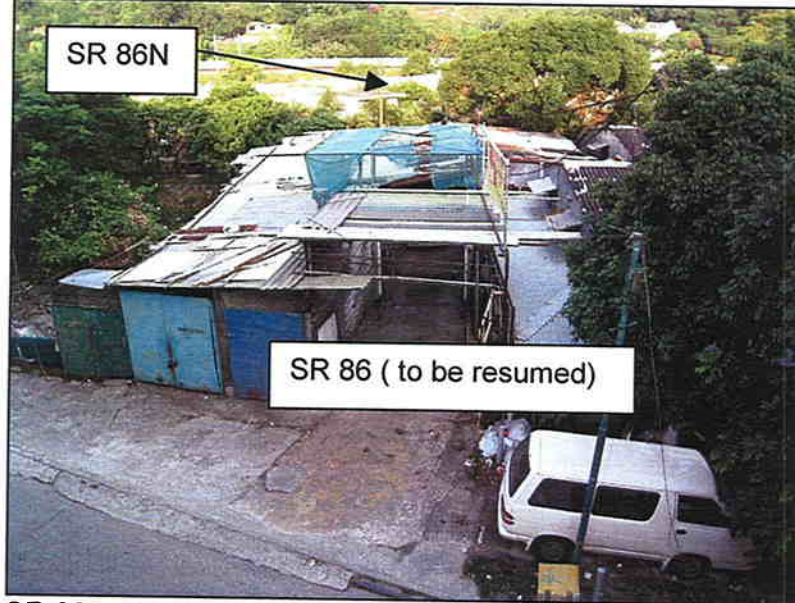
Proposed Change of Sensitive Receivers near Kiu Tau (SR 83N)



SR 83 near Ma Wat River

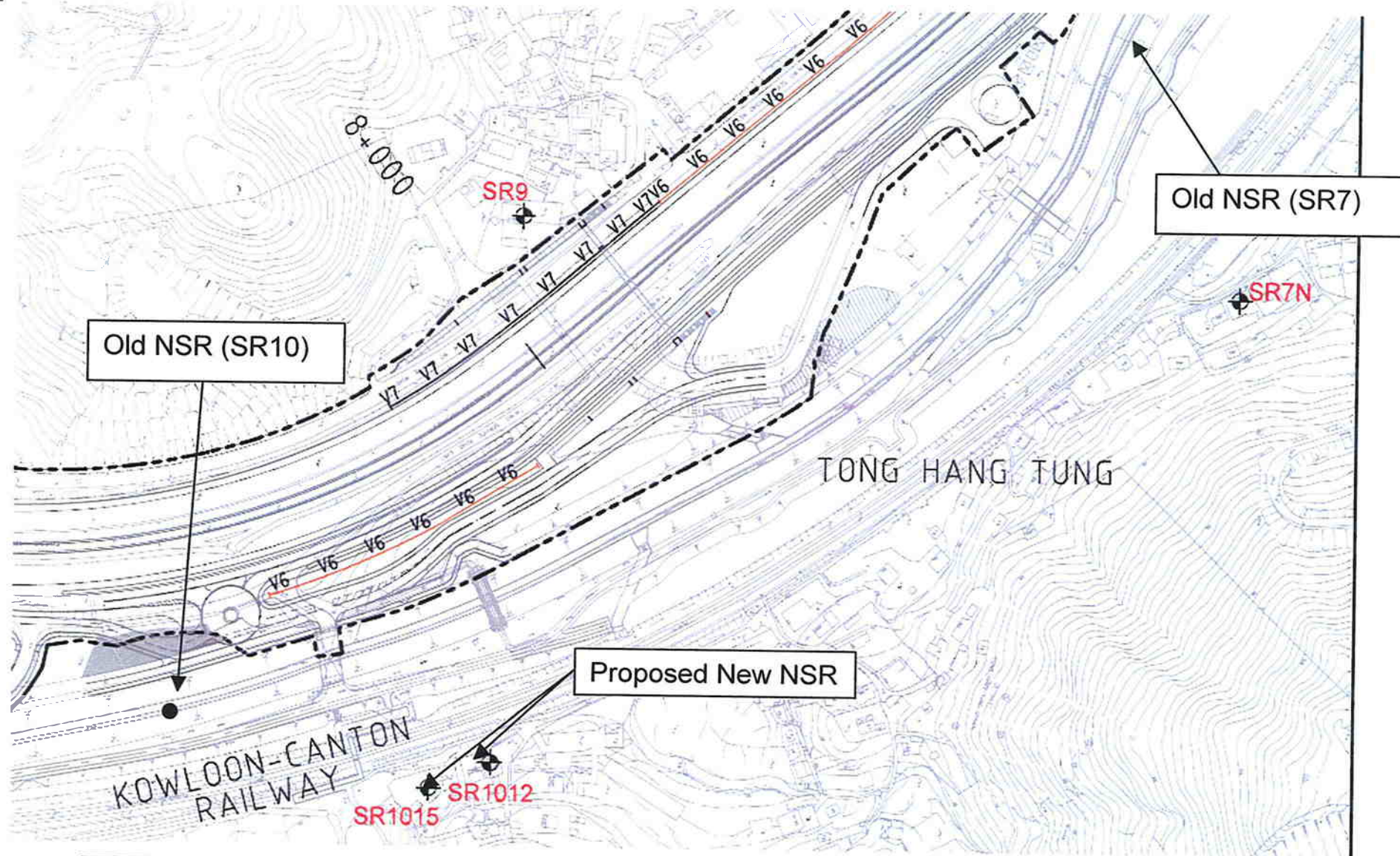


SR 11 near Kiu Tau

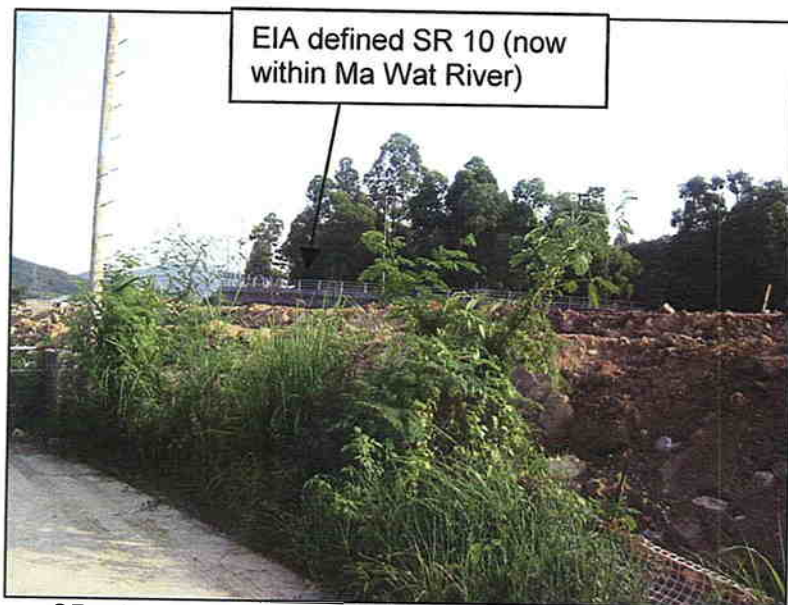


SR 86 – Kiu Tau

Appendix A3-c



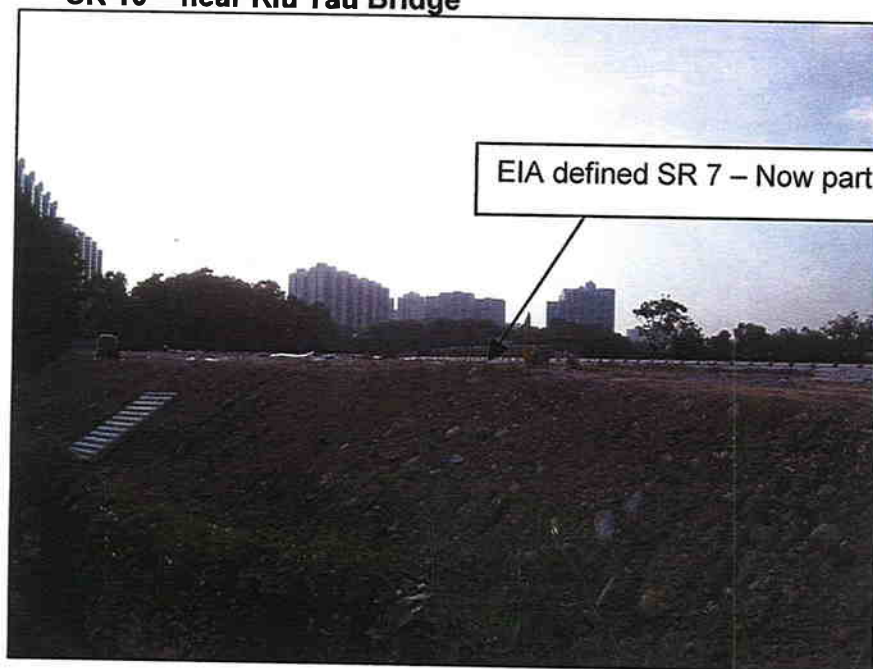
Proposed Change of Sensitive Receivers near Tong Hang to SR 7N, SR1012 and SR 1015



SR 10 – near Kiu Tau Bridge

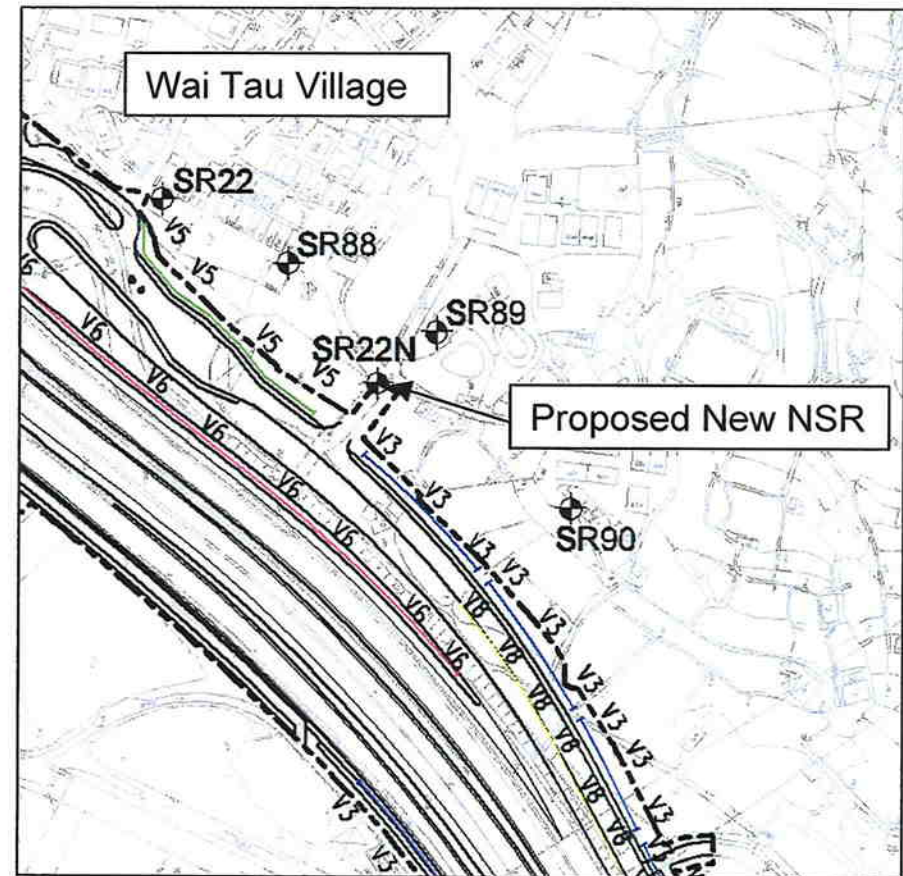
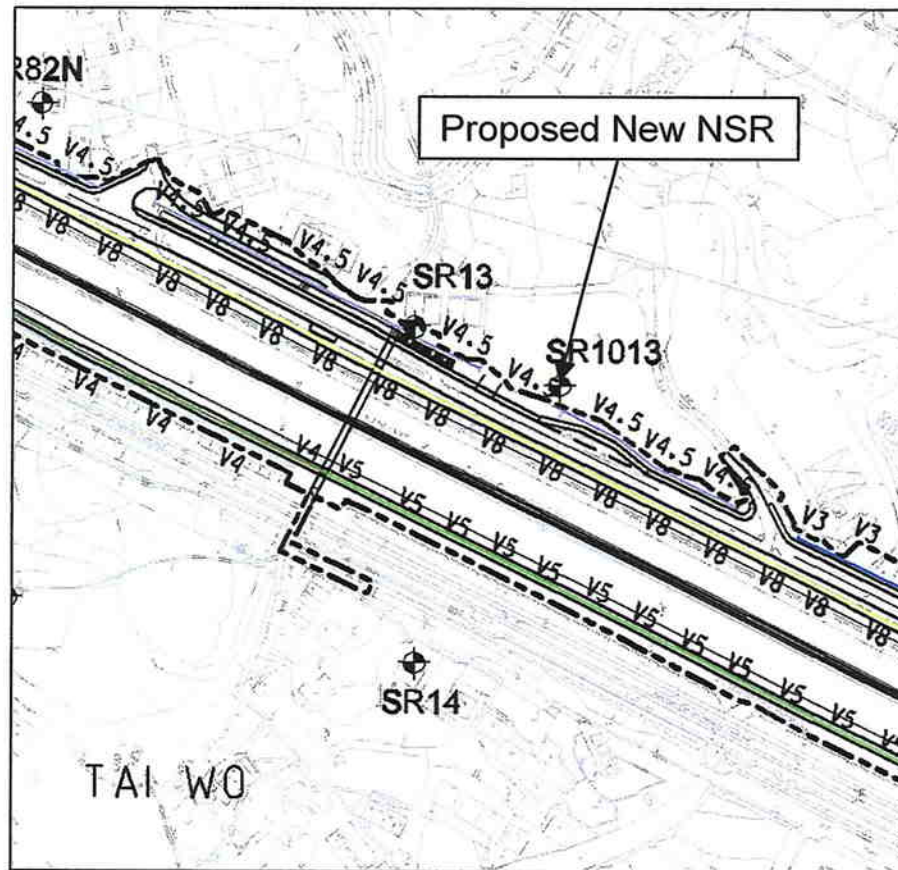


SR 11A and 11B – near Kiu Tau Bridge



SR 7 – Tong Hang

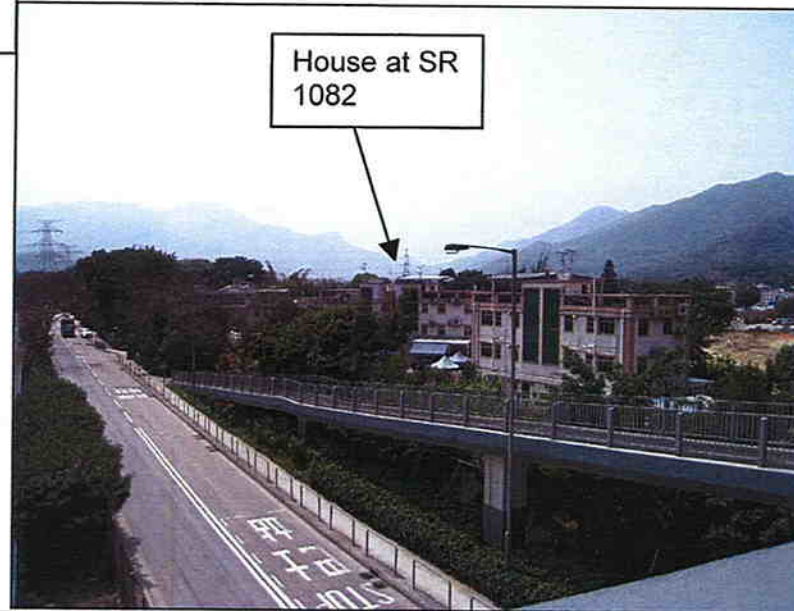
Appendix A-3d



Proposed additional Sensitive Receivers near Tai Wo and Wai Tau Village



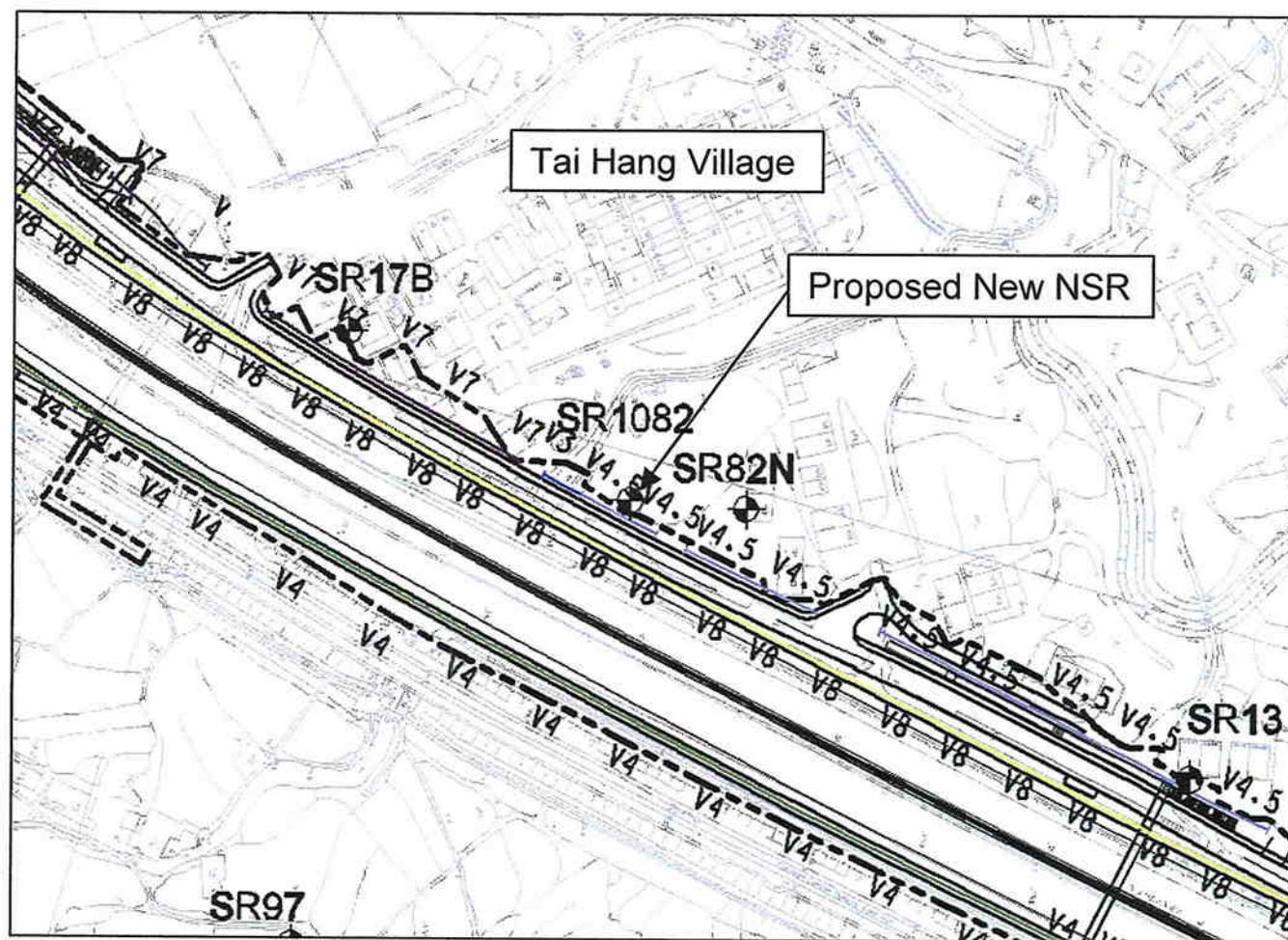
SR22N – near Kiu Tau Bridge



SR 1082 near Tai Hang

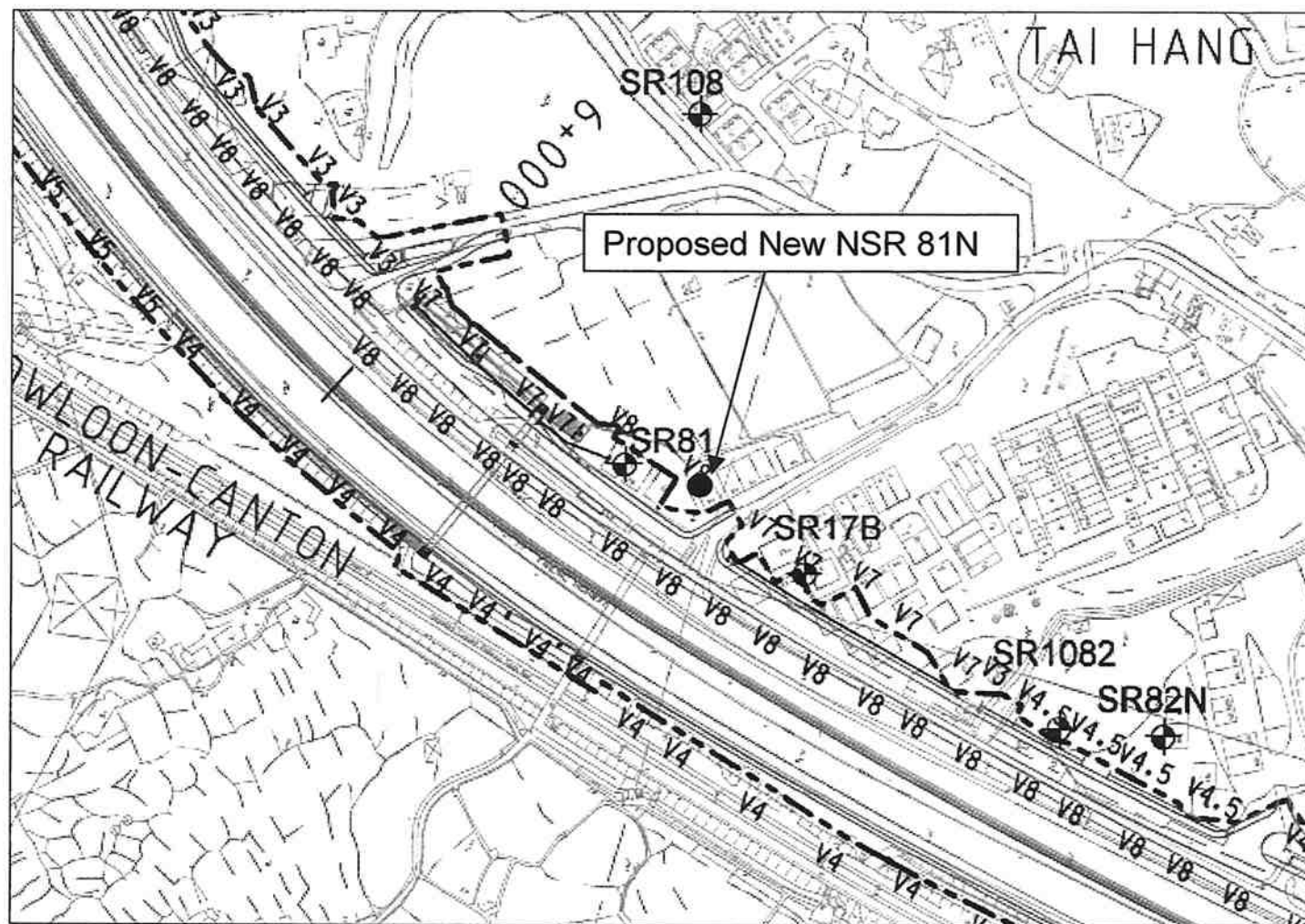


SR 1013 near Nam Wa Po

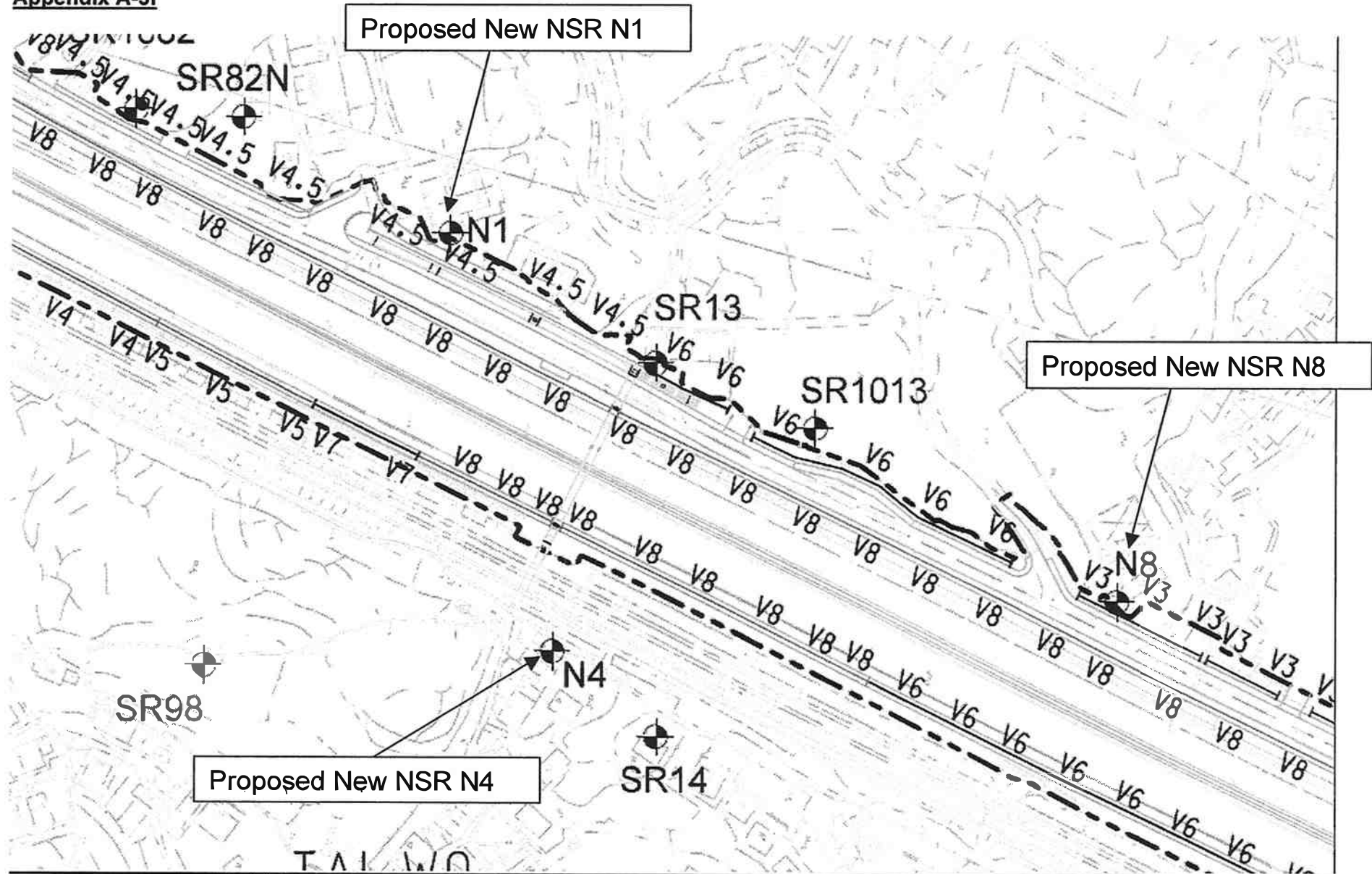


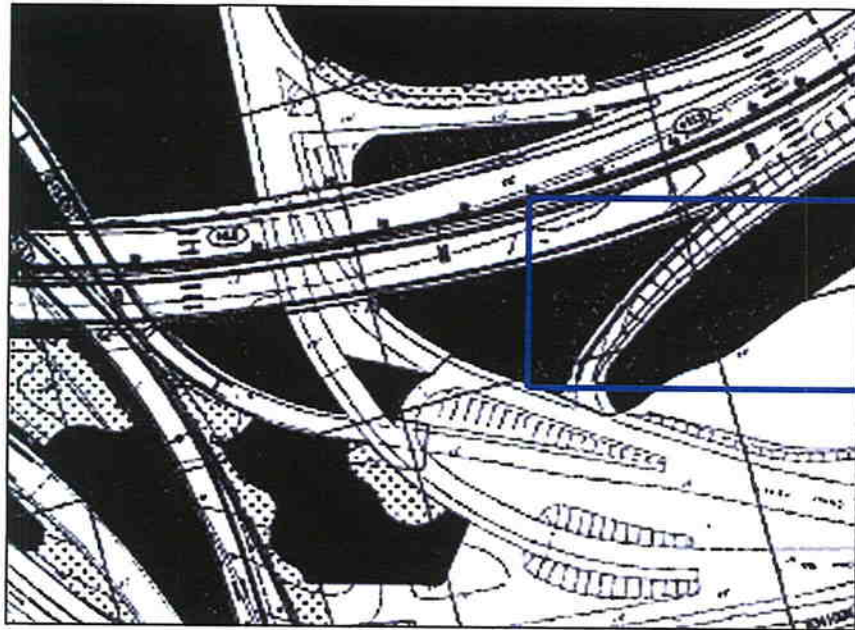
Proposed additional Sensitive Receivers near Tai Hang Village

Appendix A-3e

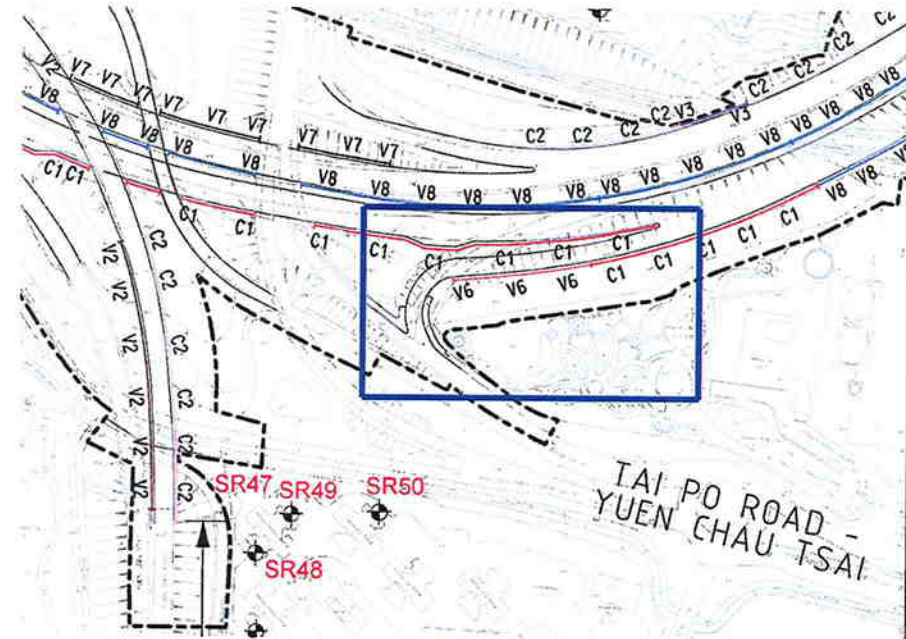


Appendix A-3f





EIA Alignment



Proposed Scheme

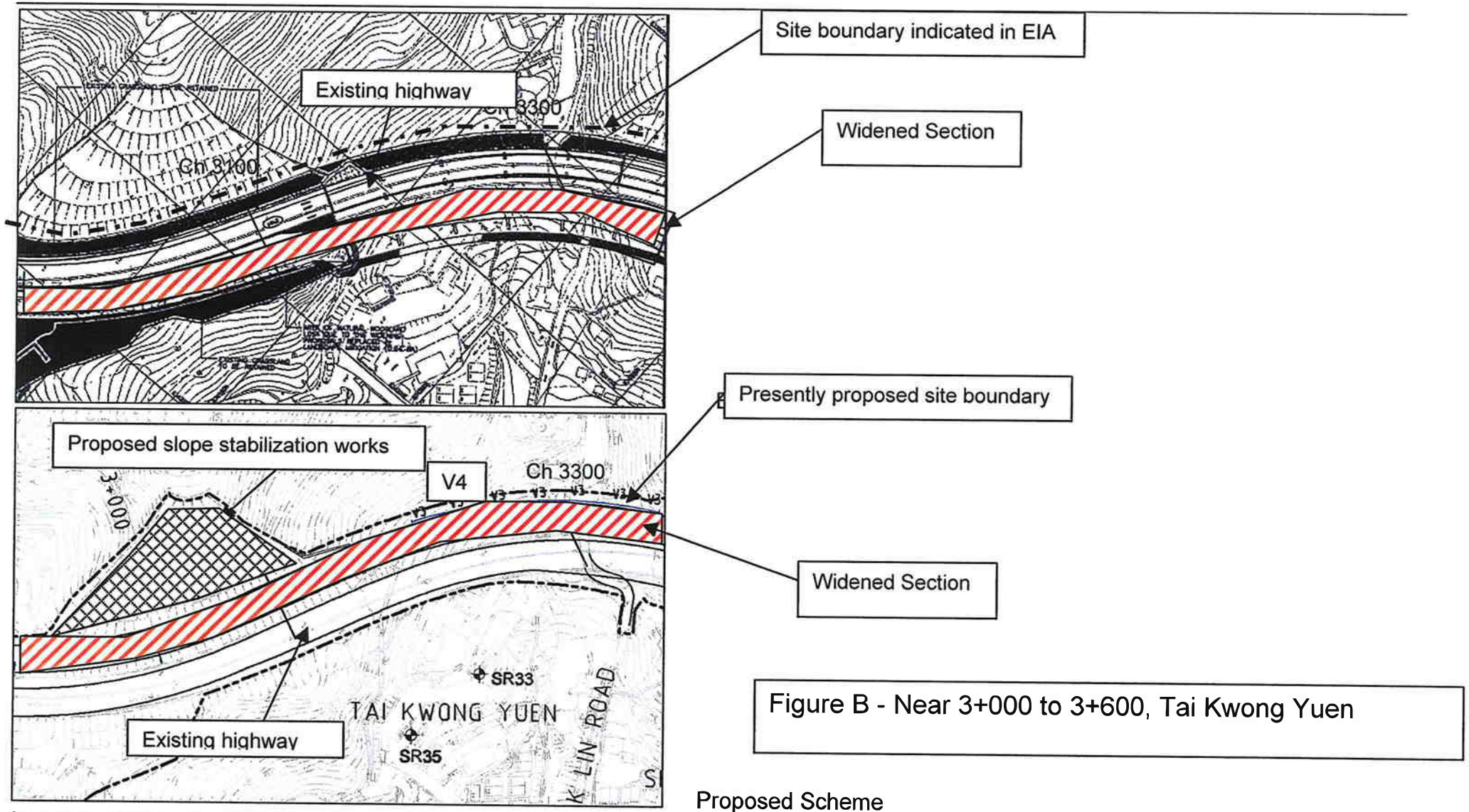
Near Chainage 0+500, Slip road from SB to Tai Po Road Yuen Chau Tsai

Near Chainage 550m – a Change in Southbound Offslip towards Tai Po Road Roundabout is proposed. The new alignment exhibits a larger curvature, the slip road bend is shifted towards the mainline by a few meters. Tie-in towards Tai Po Road remains unchanged.

Reason for change: The realigned slip road promote road users to slow down and hence improving safety for end-user

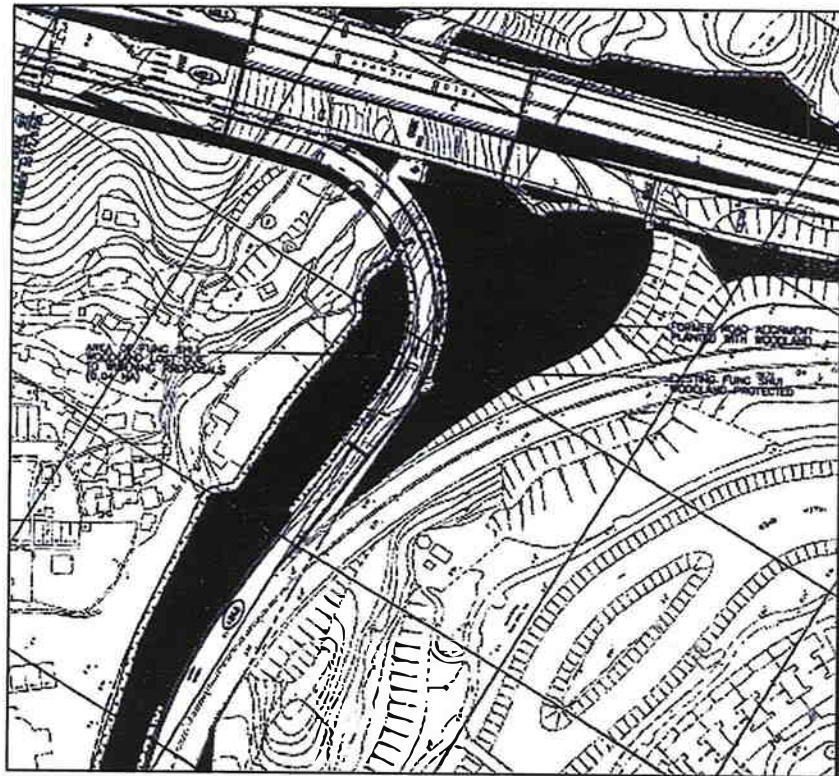
Figure A - Near Chainage 0+500, Slip road from SB to Tai Po Road Yuen Chau Tsai

Appendix A-4 Road alignment comparison from EIA to ERR

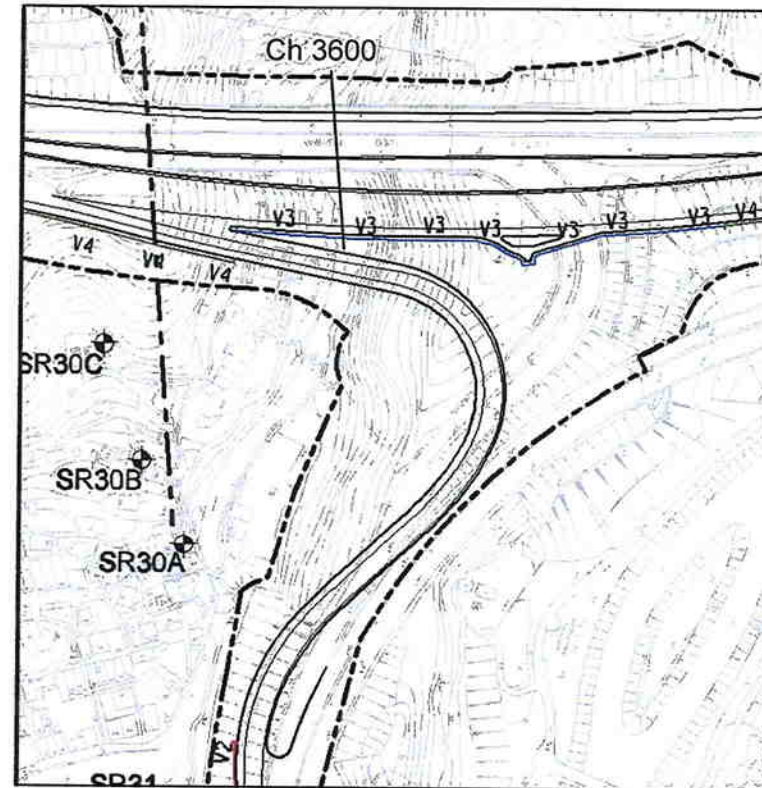


Near 3+000 to 3+600, Tai Kwong Yuen - The new alignment no longer encroaches into Tai Kwong Yuen, but is shifted towards the hillside. The new viaduct will become the northbound carriageway. Due additional proposed slopeworks, the land requirement has been amended.

Reason for change: avoid resumption of a reputable monastery at Tai Kwong Yuen



EIA Alignment



Proposed Scheme

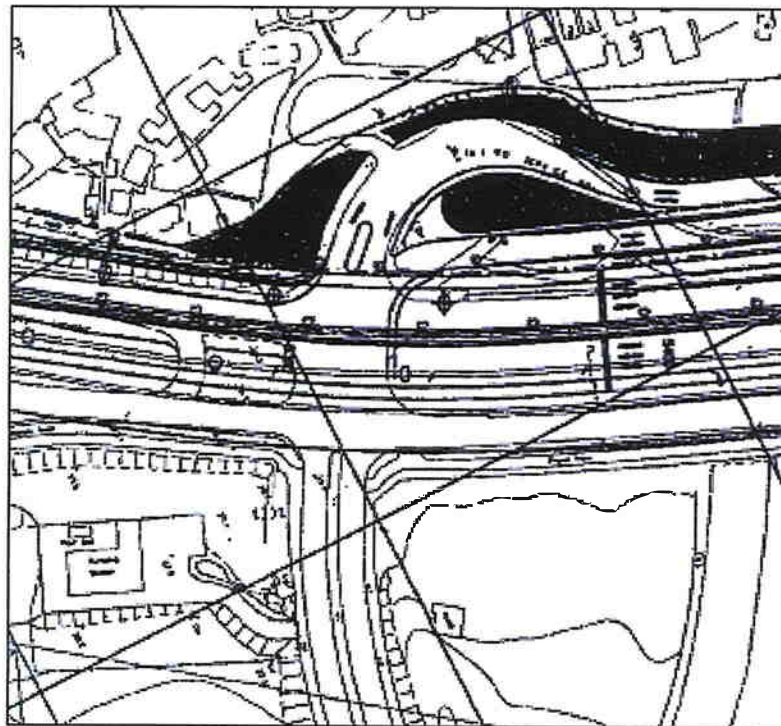
Near 3+650, Slip road from Tai Po Tai Wo Road to SB

Near chainage 3650, Tai Po Tai Wo Road southbound onslip towards mainline. The new alignment exhibits a larger curvature.

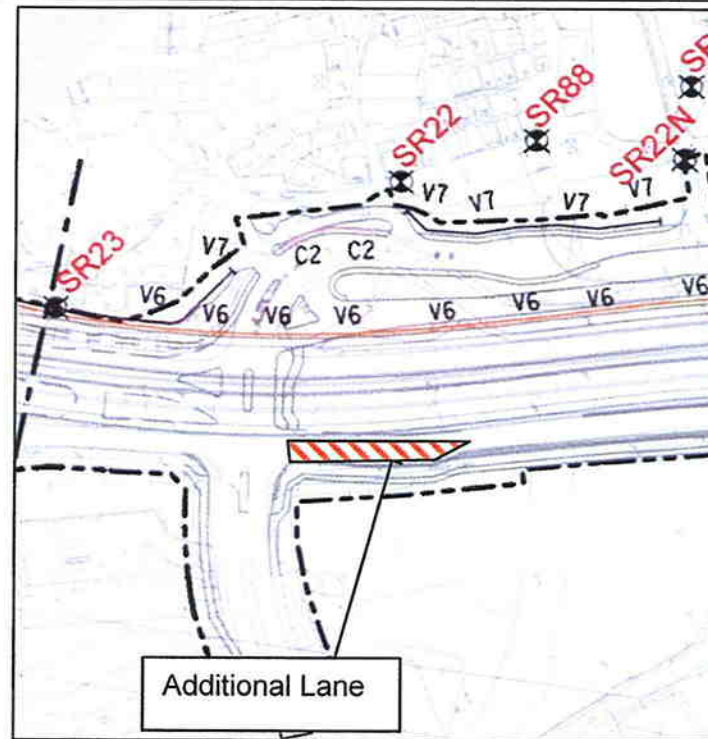
Reason for change: the revised road alignment will meet the current highway standards and improving ride quality and safety for road end users.

Figure C - Near 3+650, Slip road from Tai Po Tai Wo Road to SB

Appendix A-4 Road alignment comparison from EIA to ERR



EIA Alignment



Proposed Scheme

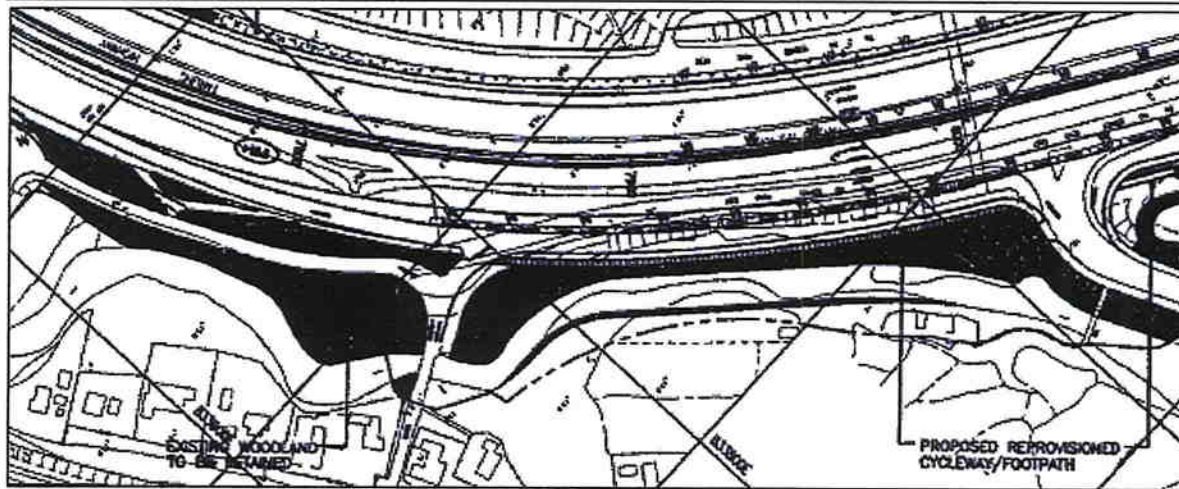
Near Ch 5300 Hong Long Yuen Junction

Near Chainage 5300, Wai Tau Tsuen and Hong Lok Yuen Road Junction. For the new alignment, the junction has additional lanes and more traffic islands provided.

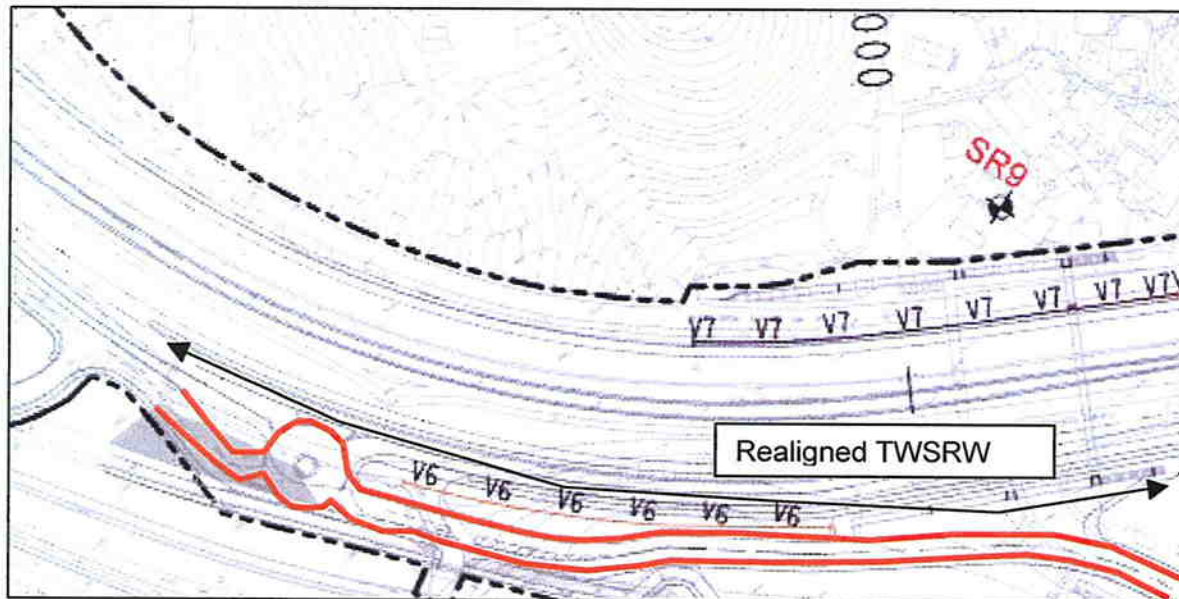
Reason for change: Additional lanes in the junction increase traffic flow capacity hence reducing traffic congestion of the road network.

Figure D - Near Ch 5300 Hong Long Yuen Junction

Appendix A-4 Road alignment comparison from EIA to ERR



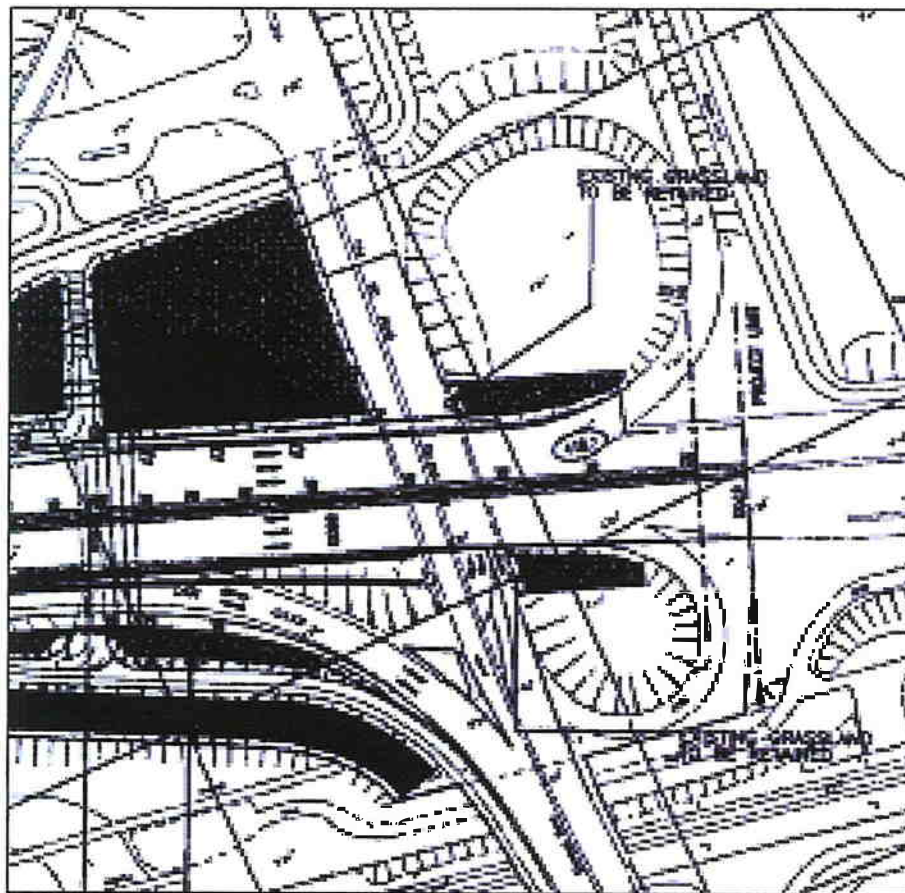
EIA Alignment



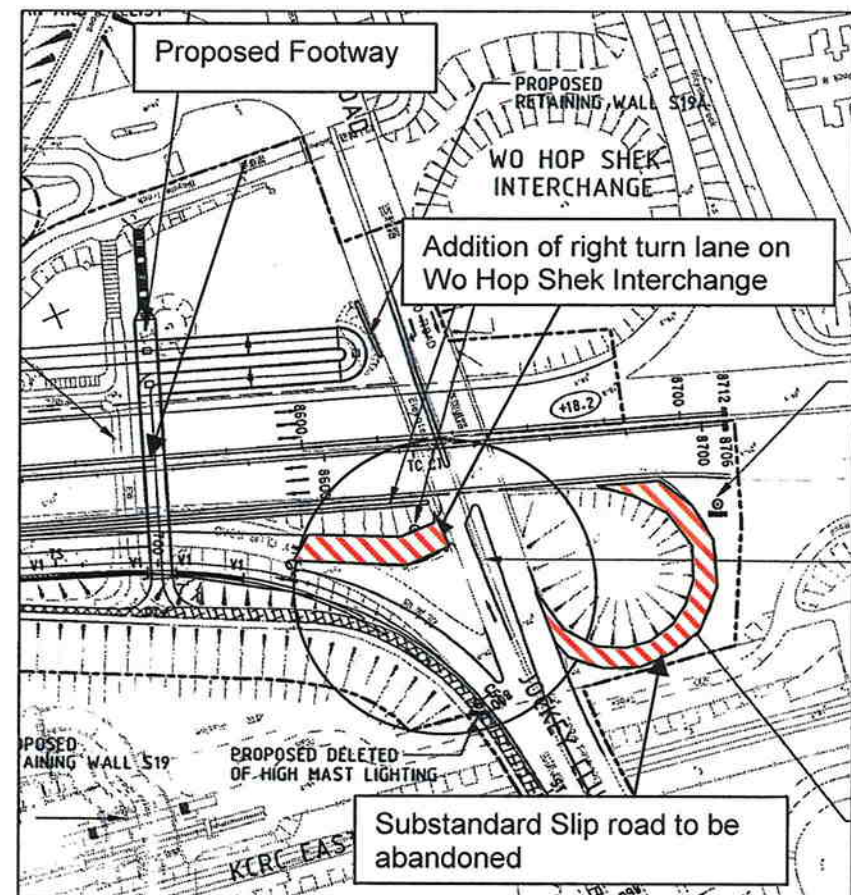
Proposed Scheme

Near Ch 7750-8050, modification of road alignment, including an additional roundabout is proposed at Tai Wo Service Road East is proposed. The land requirement has been modified to suit the road realignment.

Figure E - Near Ch 7750-8050



EIA scheme



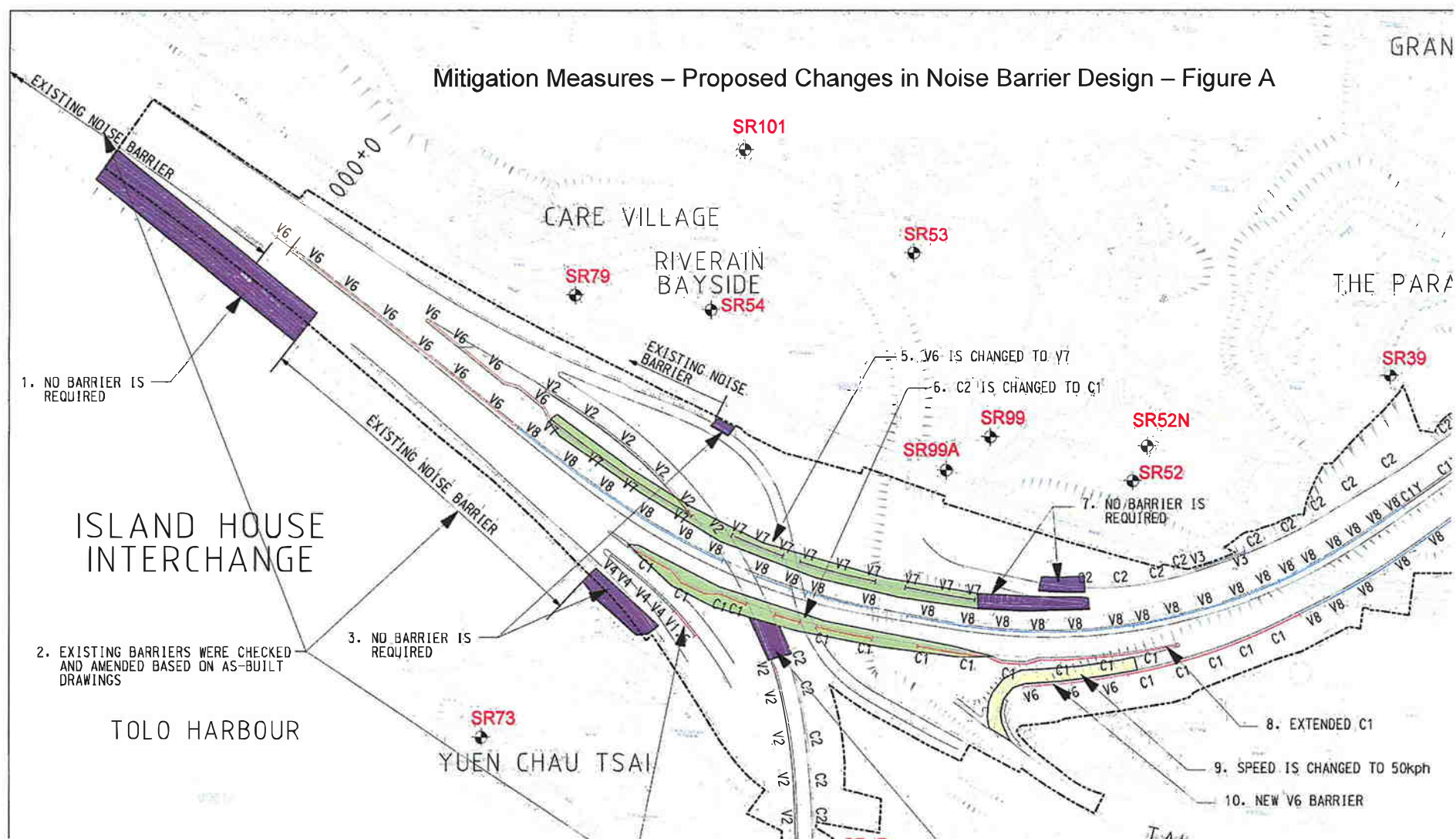
Proposed Scheme

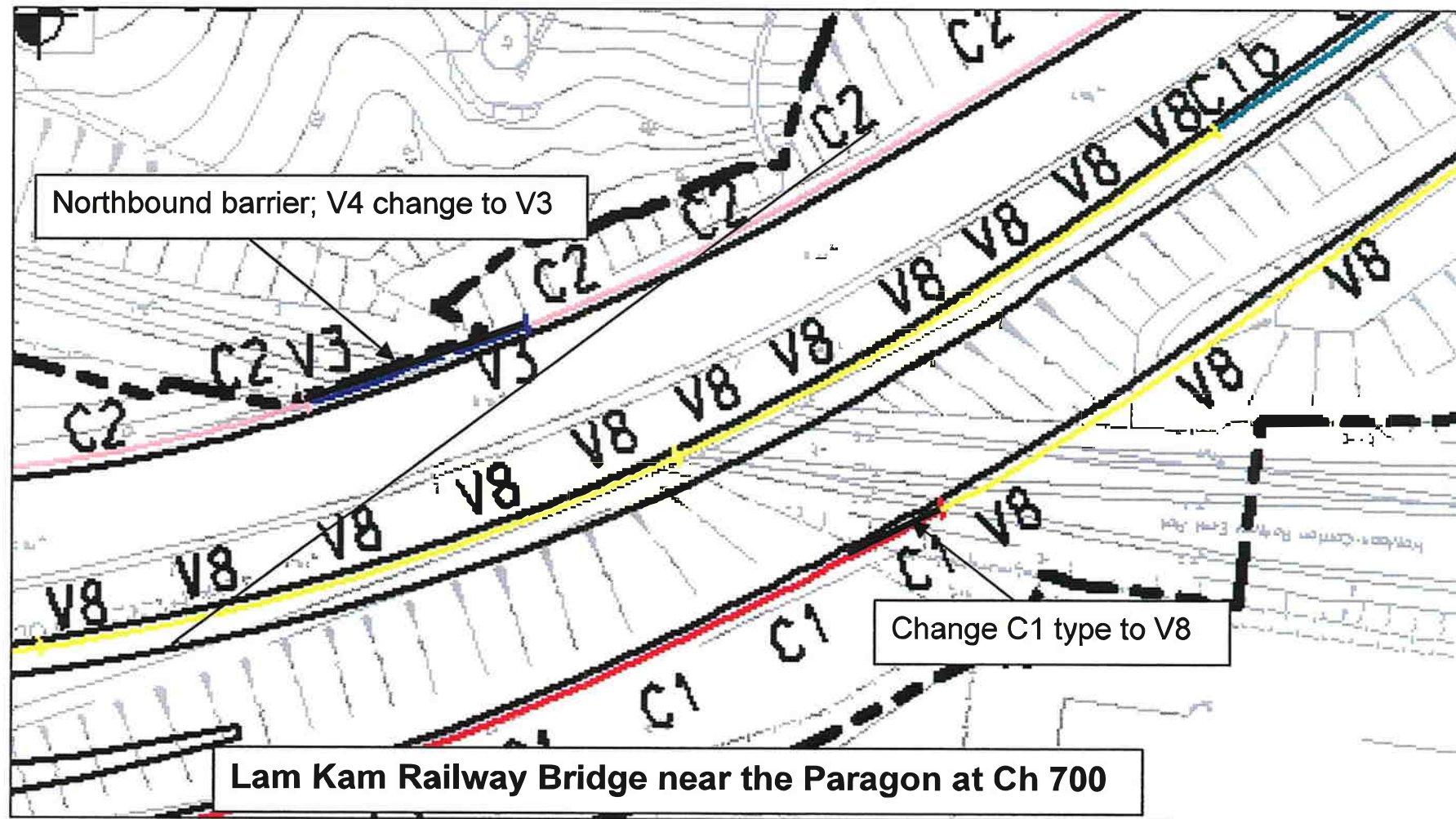
Near Chainage 8650 - Modification on Layout of Wo Hop Shek Interchange (addition of traffic lane and signaling system).

Reason for change: the revised road alignment will meet the current highway standards and hence improving ride quality and safety for road end users.

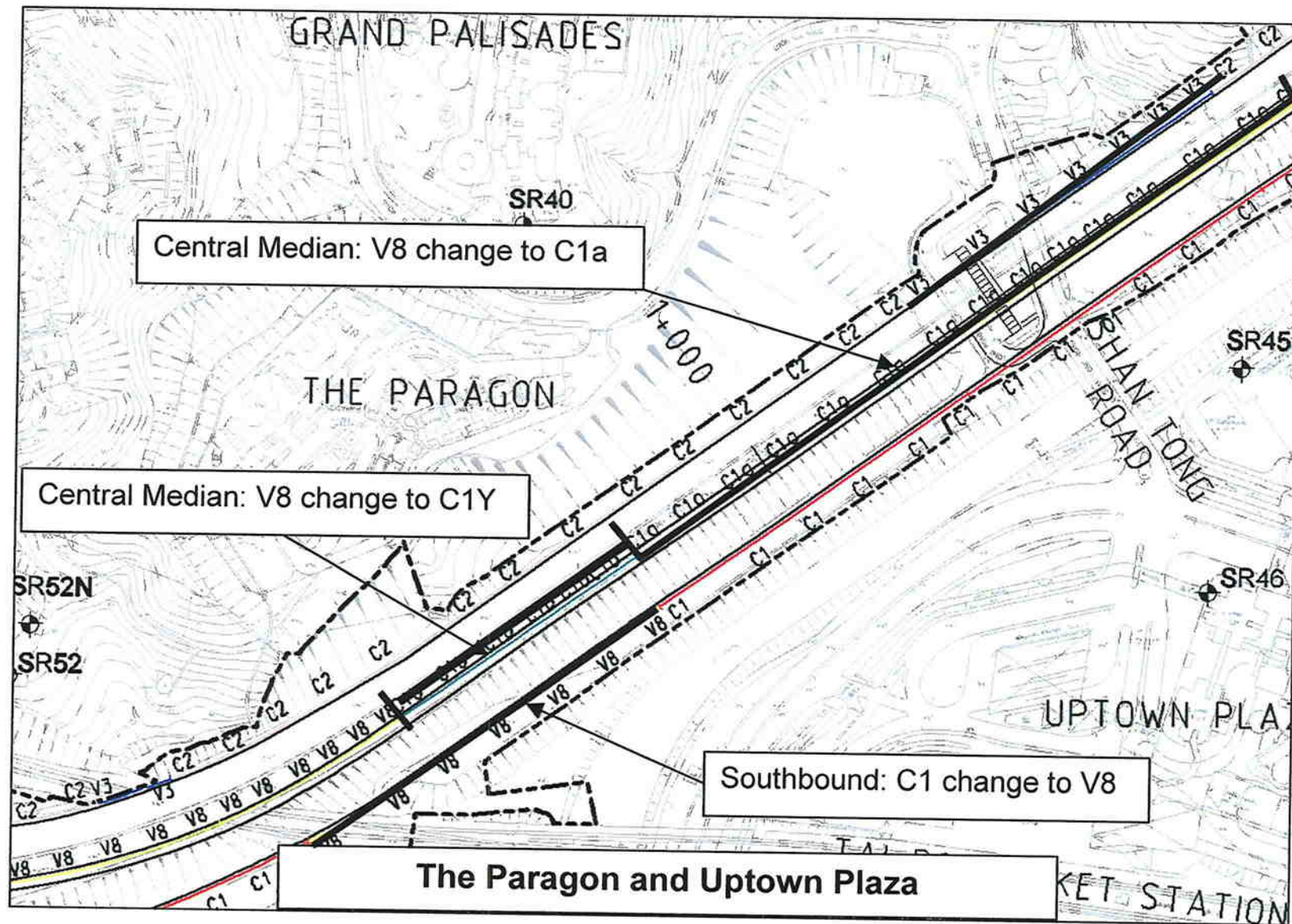
Figure F - Near Chainage 8650 - Modification on Layout of Wo Hop Shek Interchange

Appendix A-5

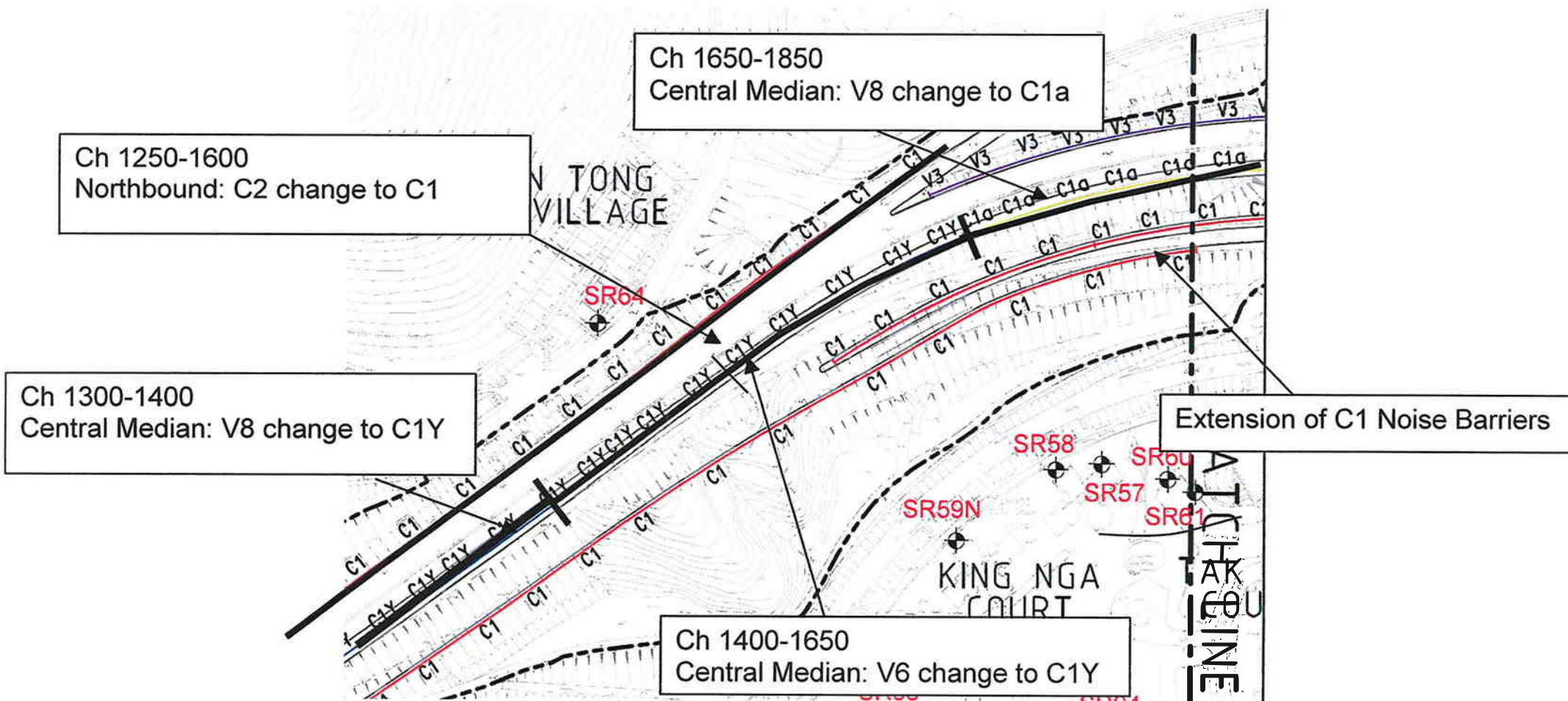




Mitigation Measures – Proposed Change in Noise Barrier Design – Figure B

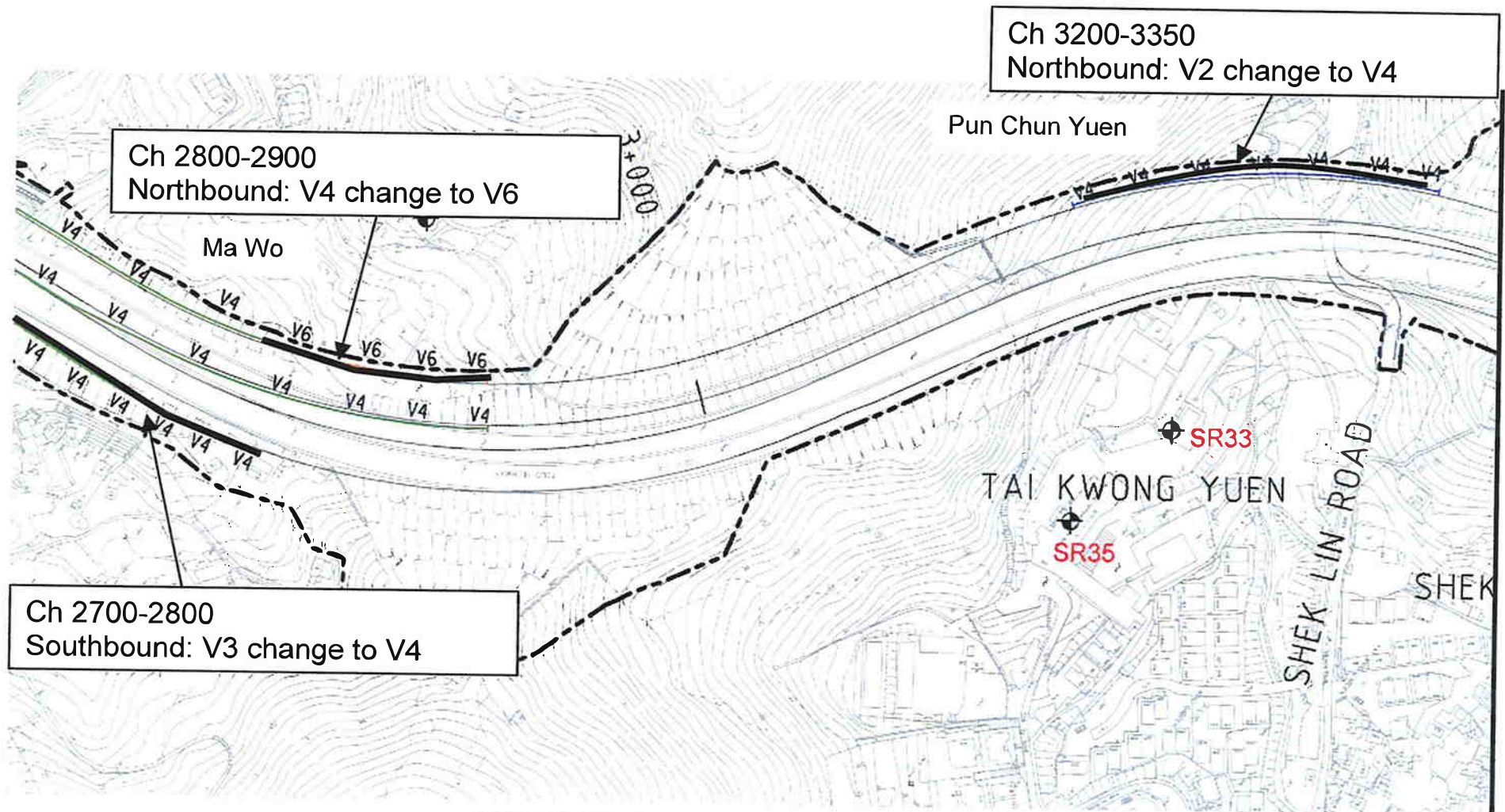


Mitigation Measures – Proposed Change in Noise Barrier Design – Figure C



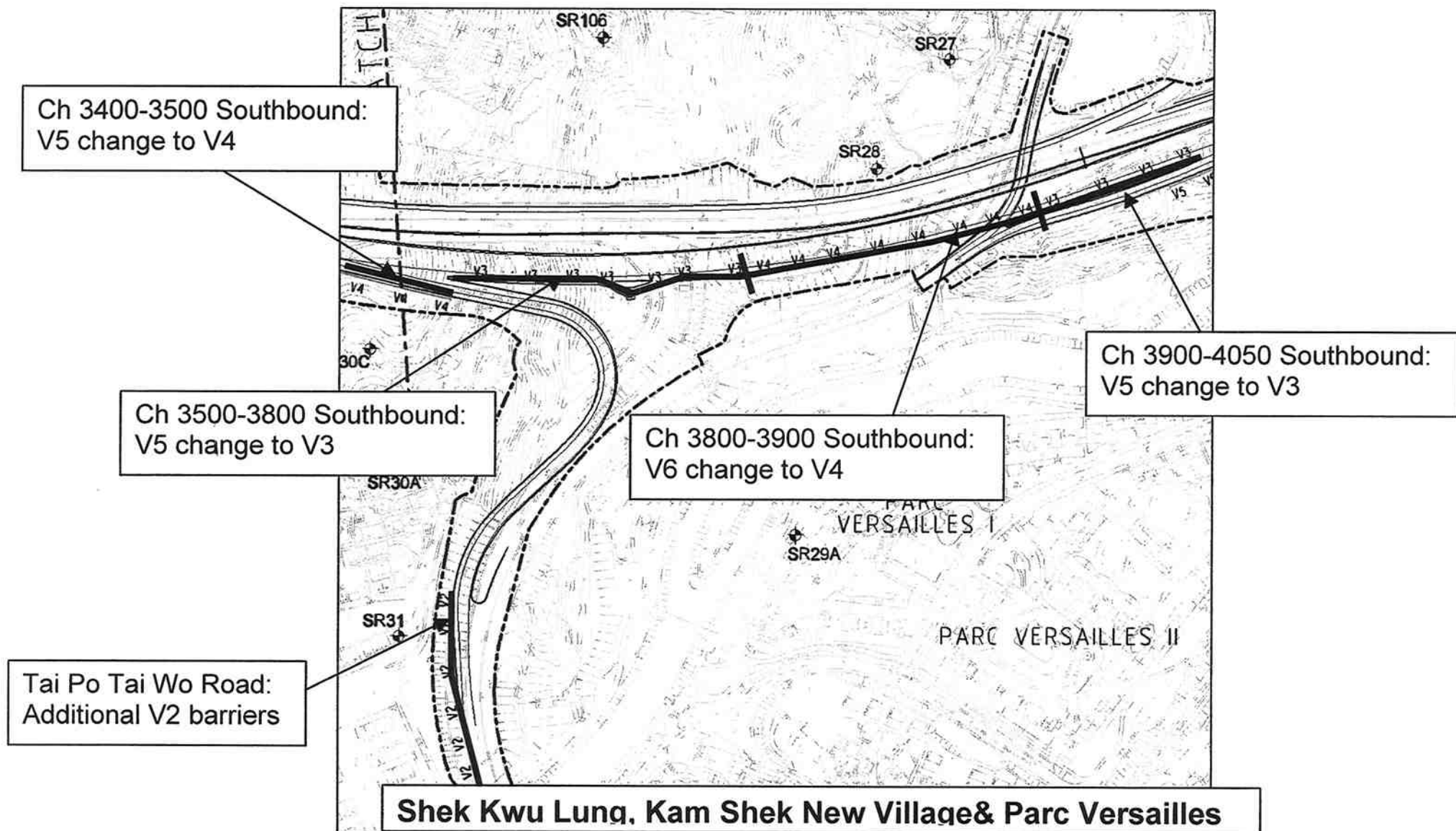
Shan Tong New Village, King Nga Court, Wan Tau Tong Estate and Tak Nga

Mitigation Measures – Proposed Change in Noise Barrier Design – Figure D

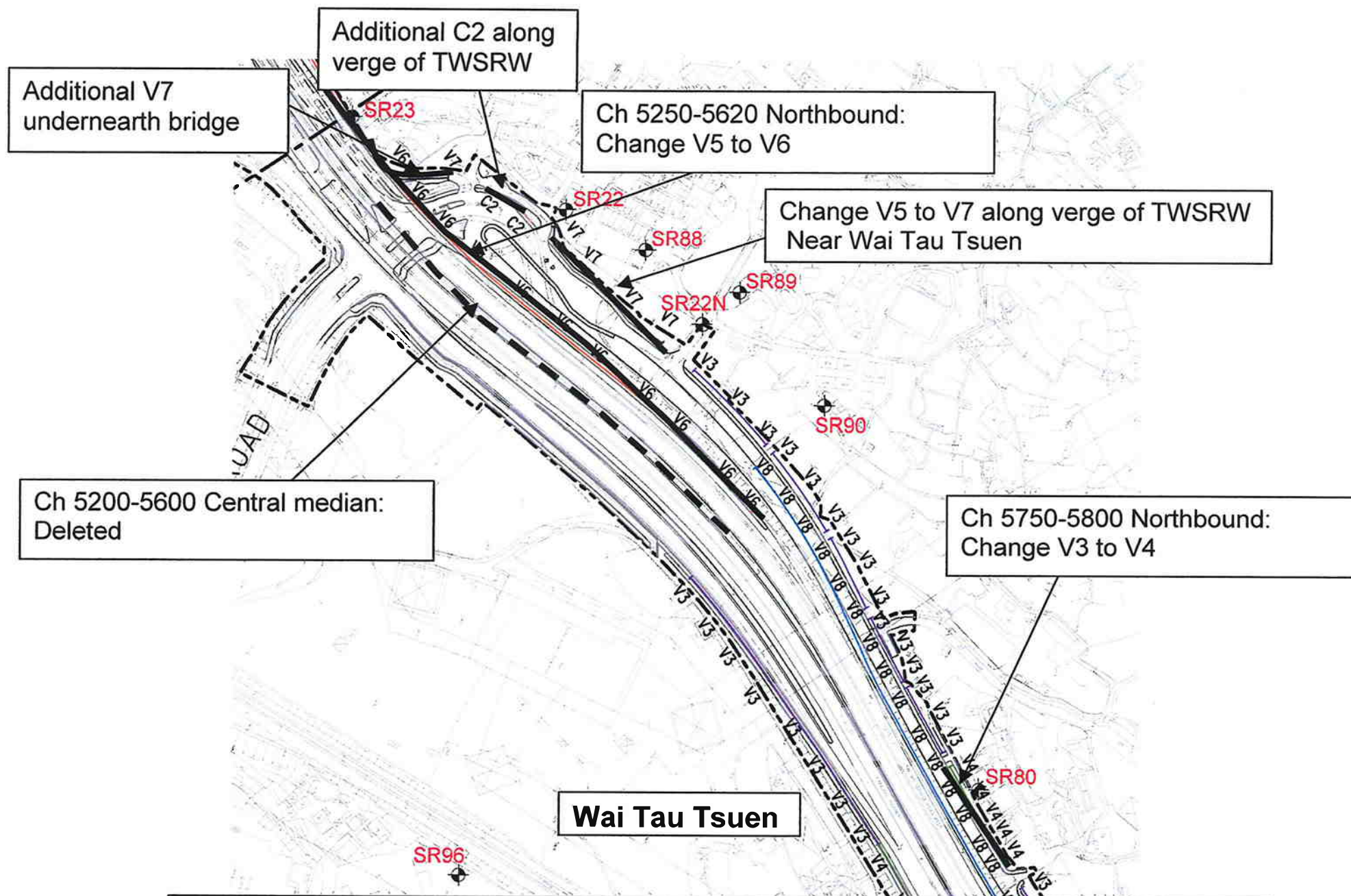


Near Ma Wo and Pun Chun Yuen

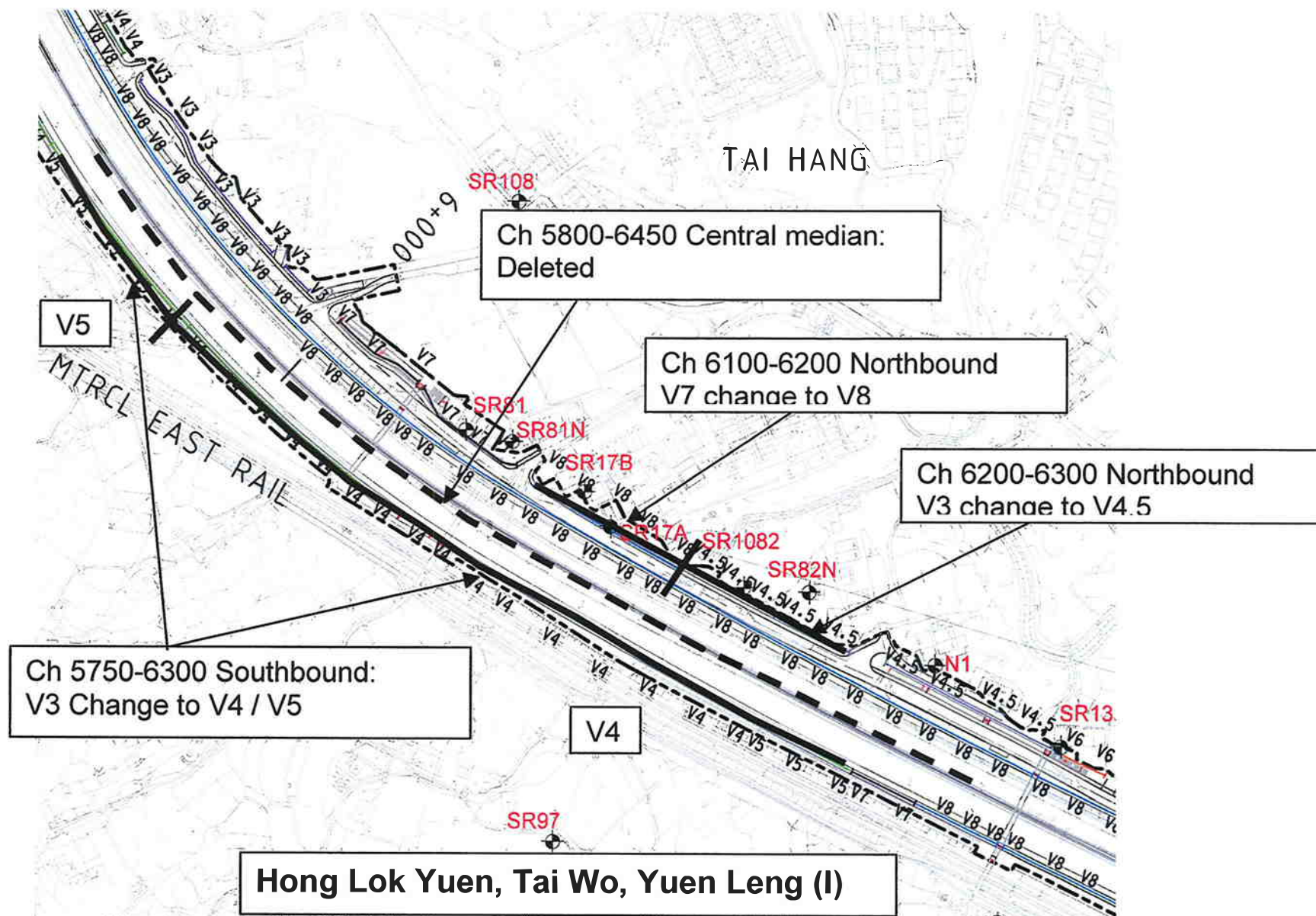
Mitigation Measures – Proposed Change in Noise Barrier Design – Figure E



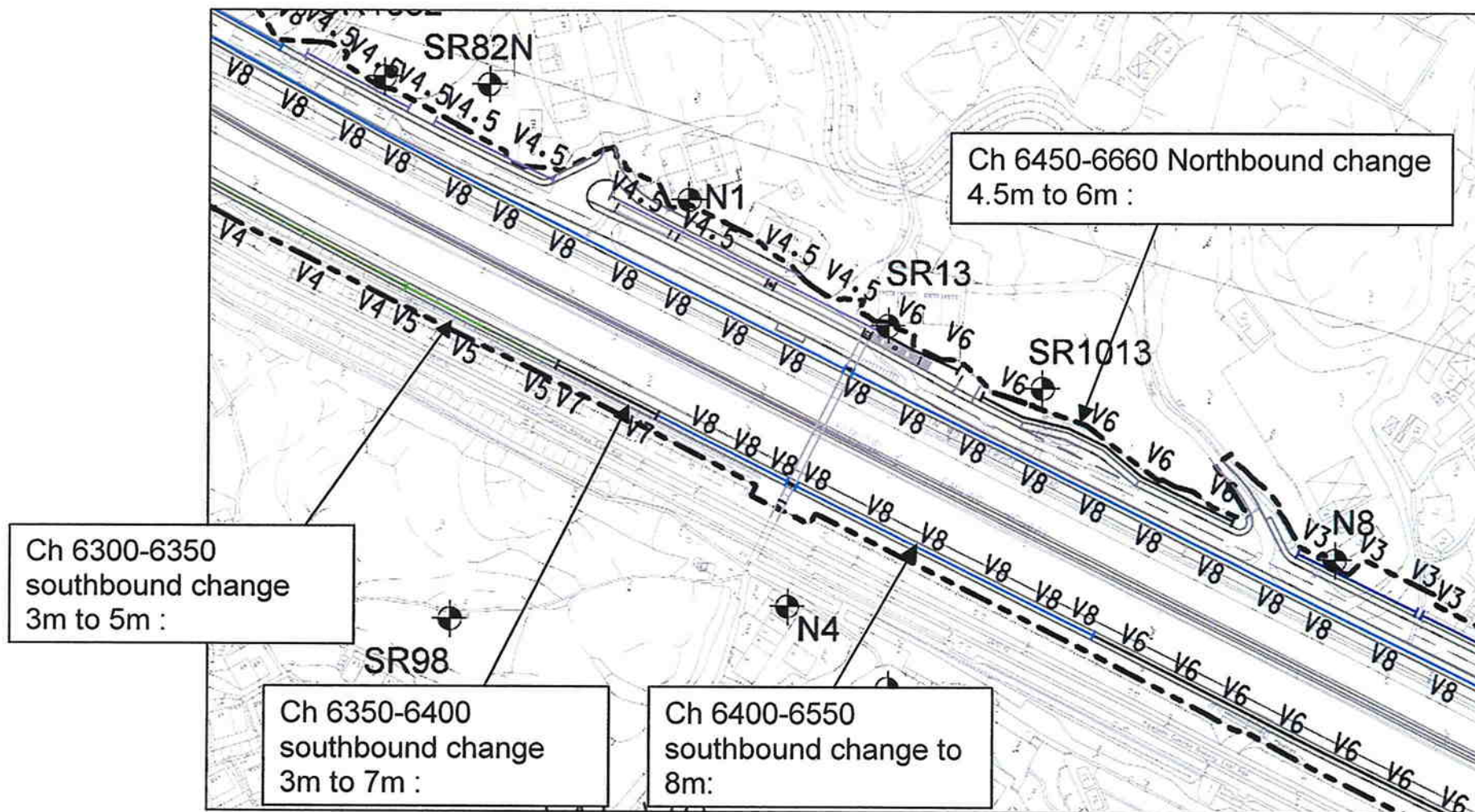
Mitigation Measures – Proposed Change in Noise Barrier Design – Figure F



Mitigation Measures – Proposed Change in Noise Barrier Design – Figure G

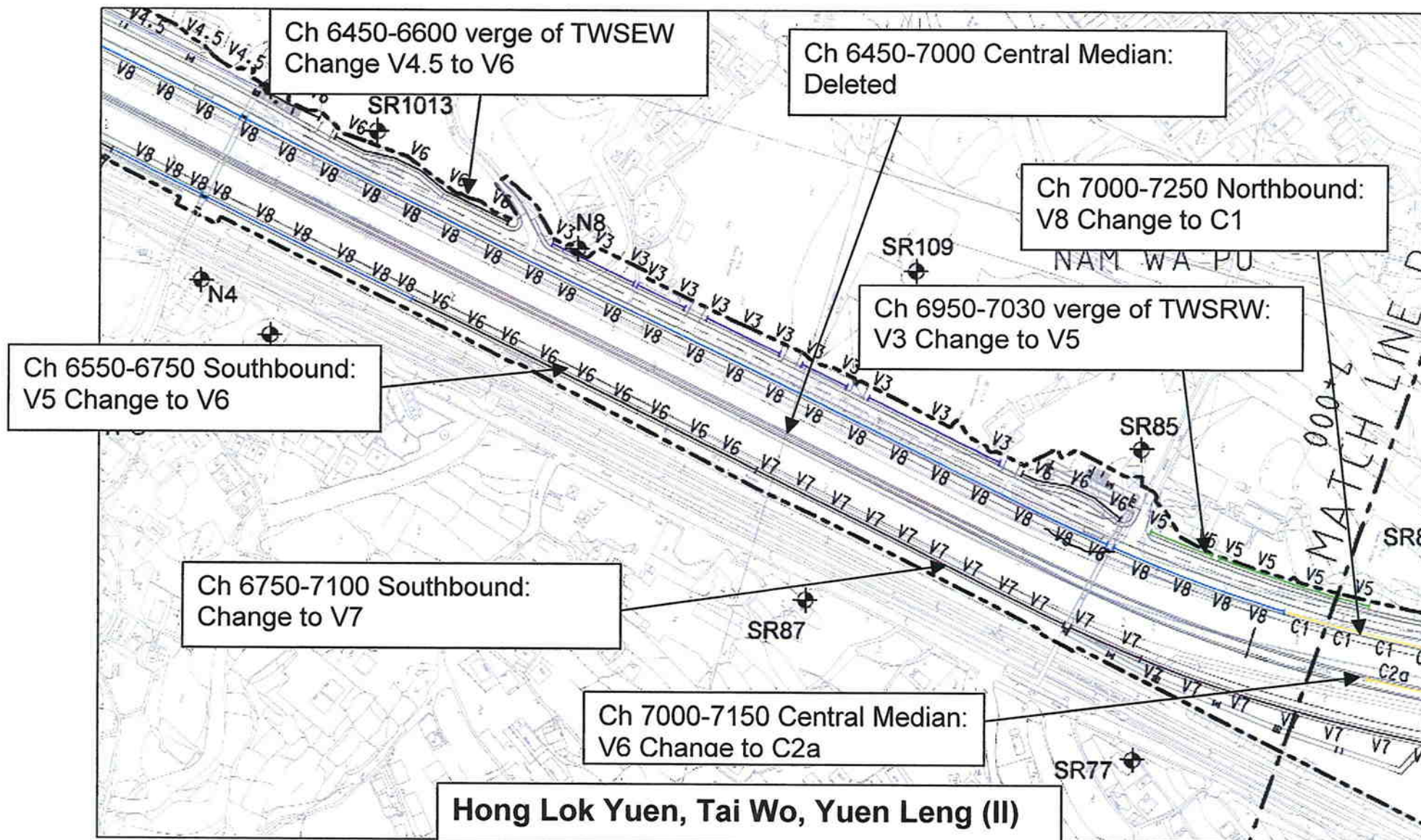


Mitigation Measures – Proposed Change in Noise Barrier Design – Figure H

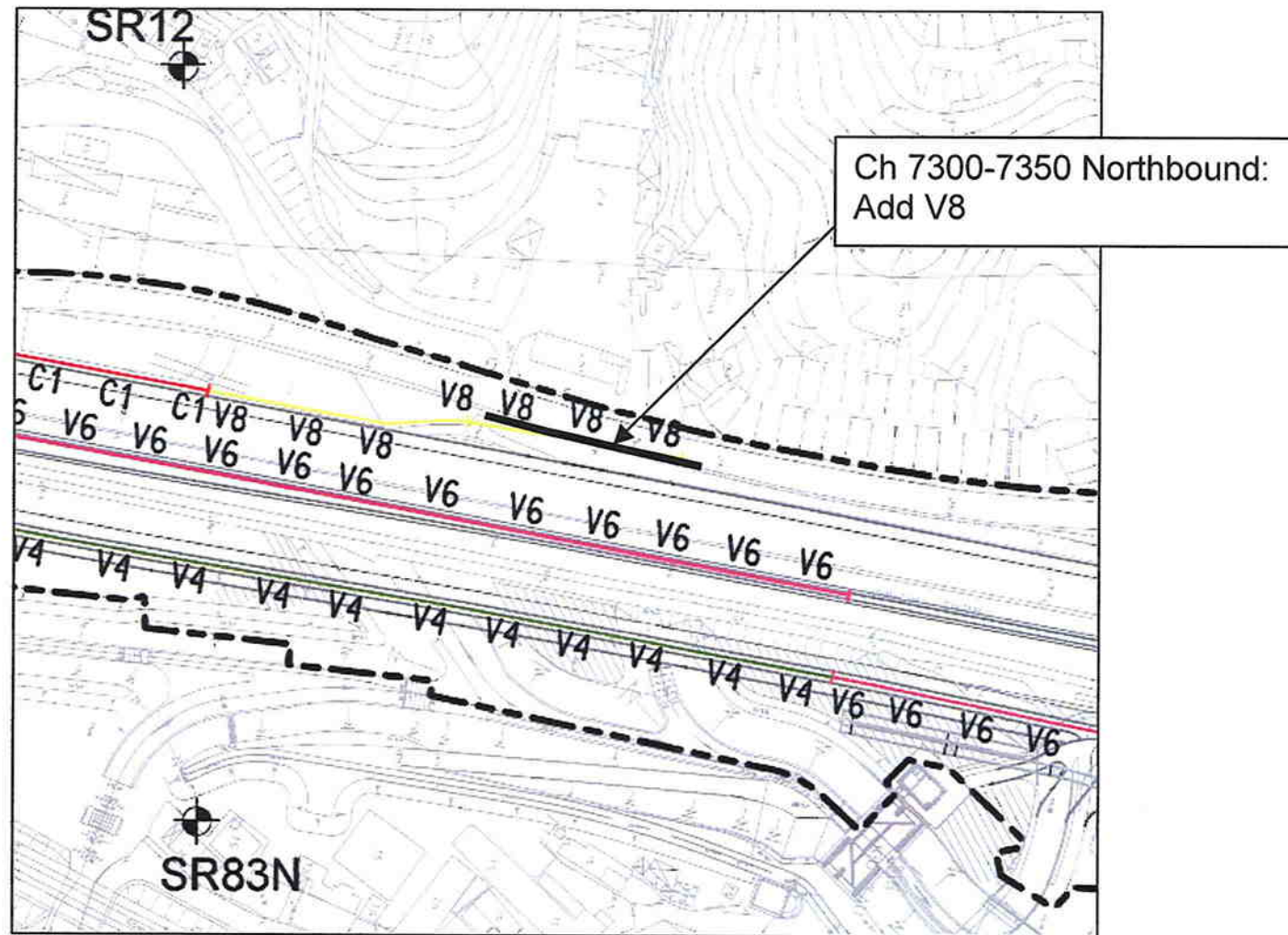


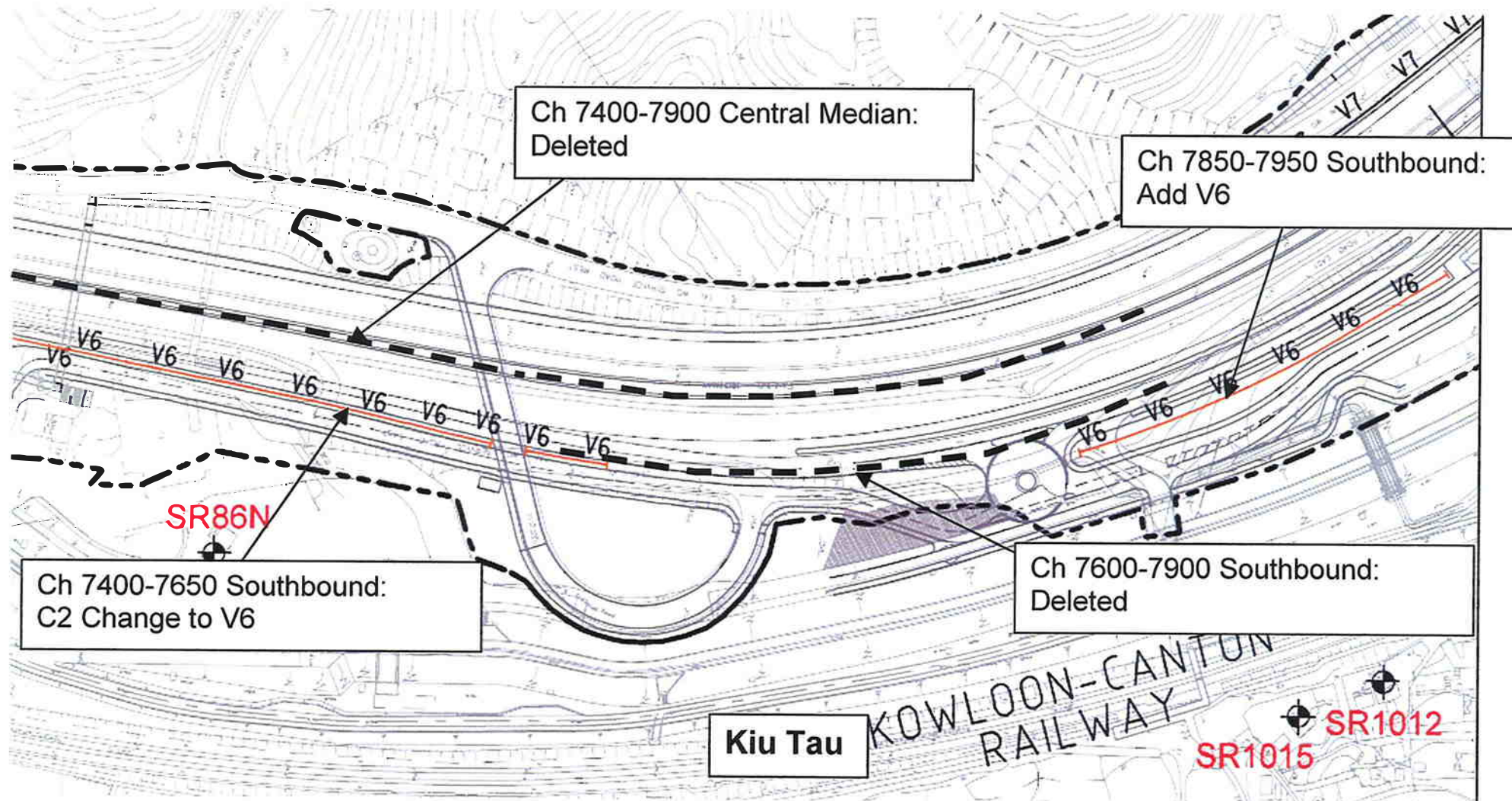
Hong Lok Yuen, Tai Wo, Yuen Leng (1a)

Mitigation Measures – Proposed Change in Noise Barrier Design – Figure H2

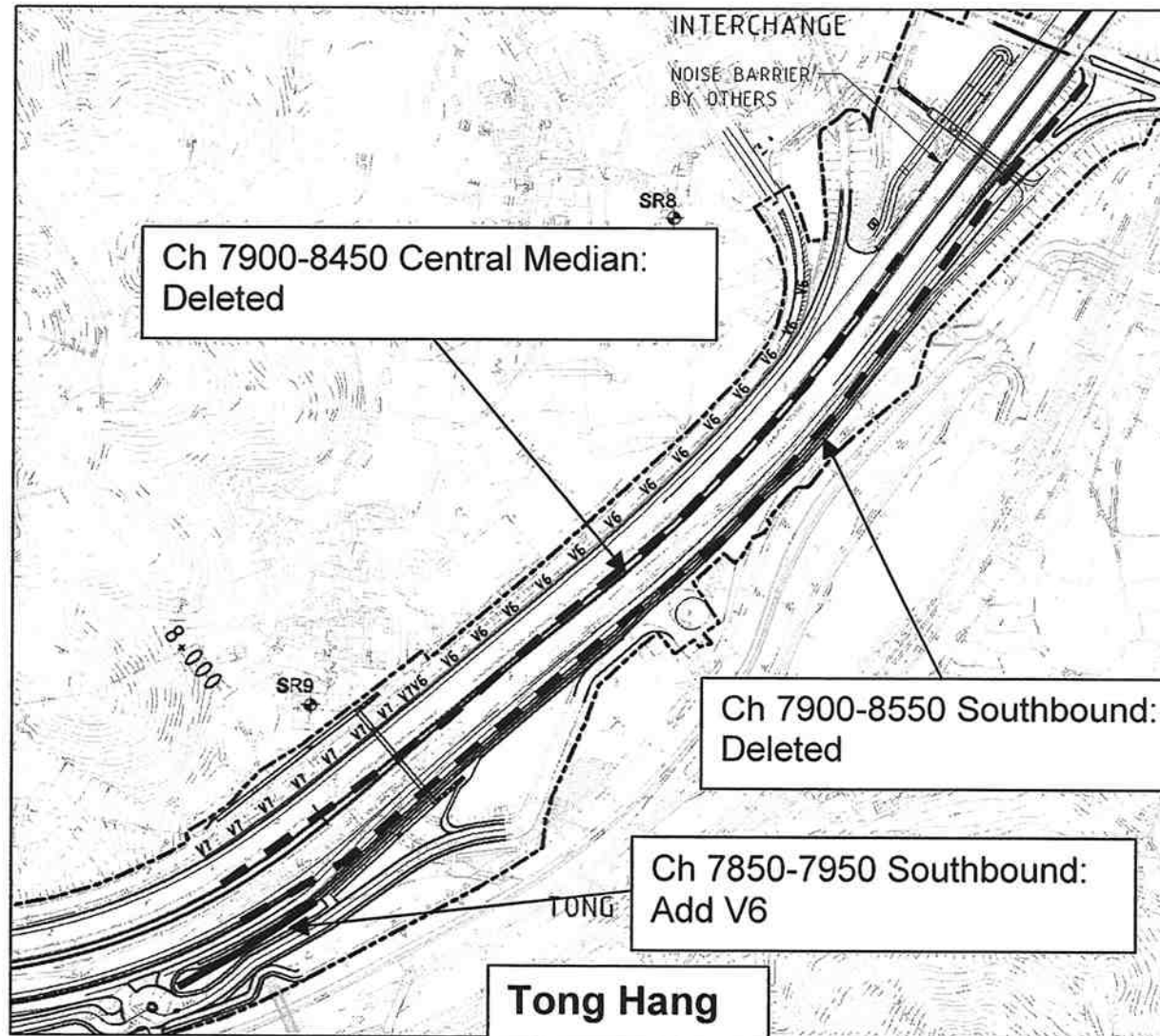


Mitigation Measures – Proposed Change in Noise Barrier Design – Figure 1b

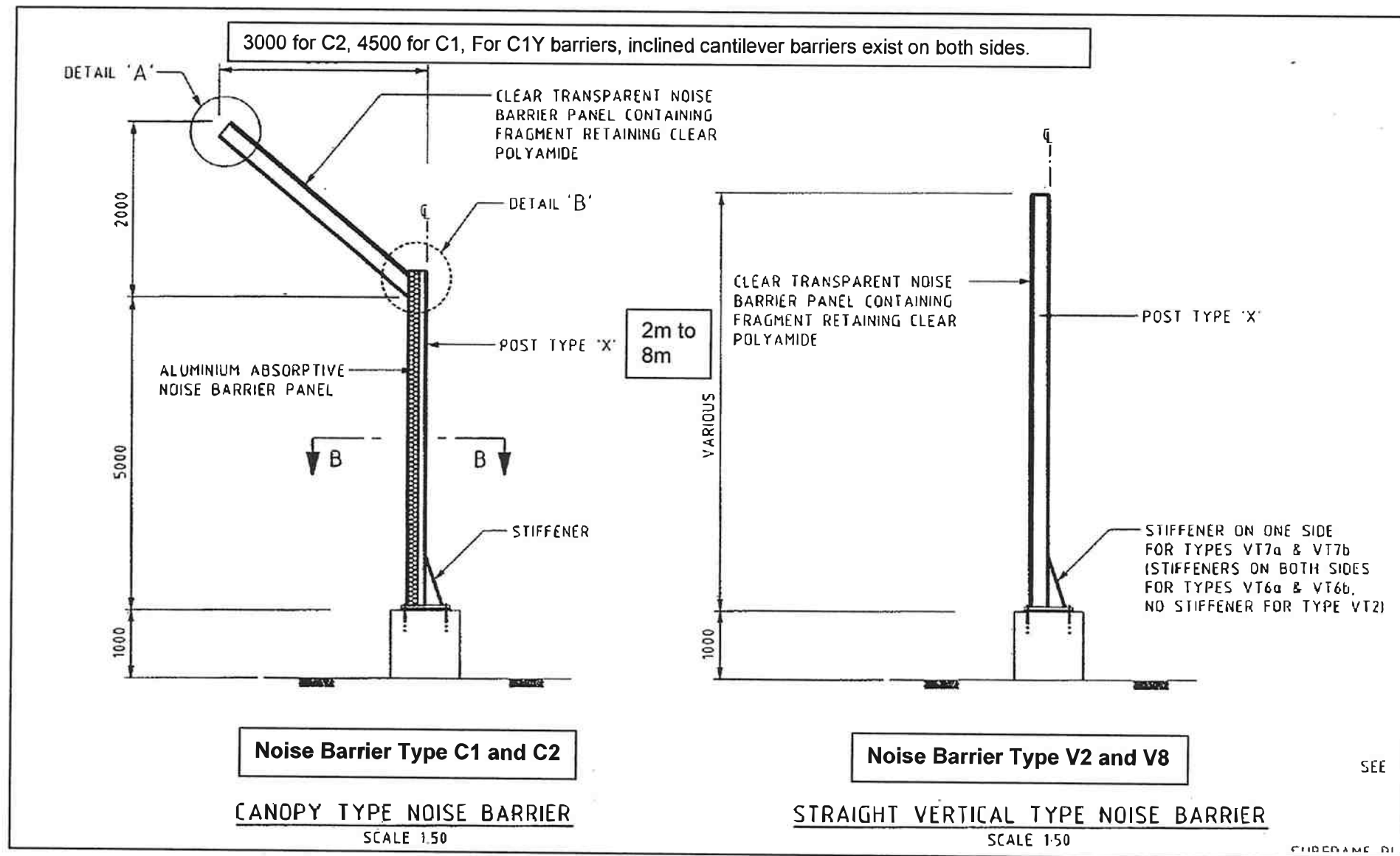




Mitigation Measures – Proposed Change in Noise Barrier Design – Figure J



Mitigation Measures – Proposed Change in Noise Barrier Design – Figure K



Appendix A-6 Layout of Noise Barriers