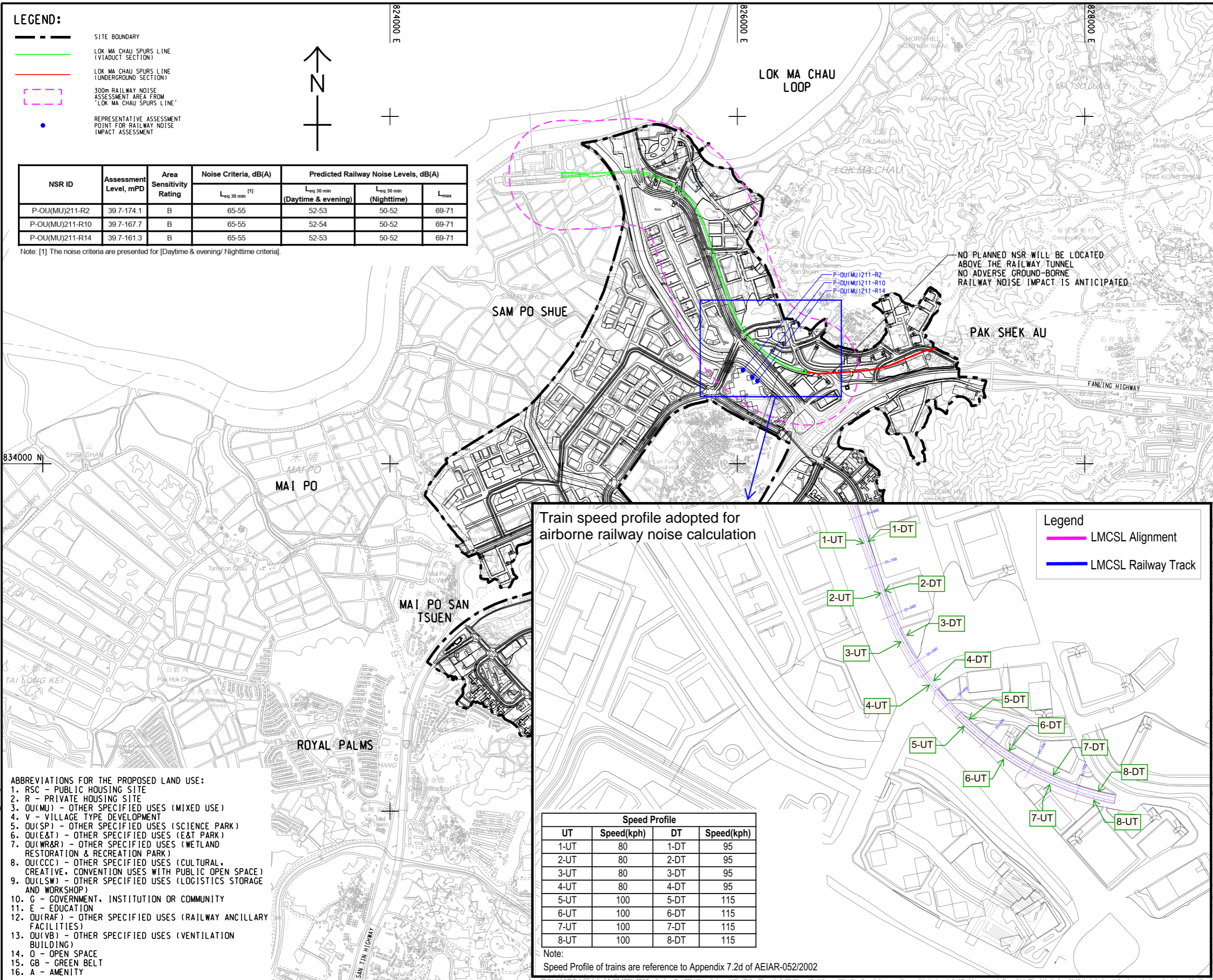


ISO A1 594mm x 841mm
 Approved:
 Checked:
 Designer:
 Project Management Initials:

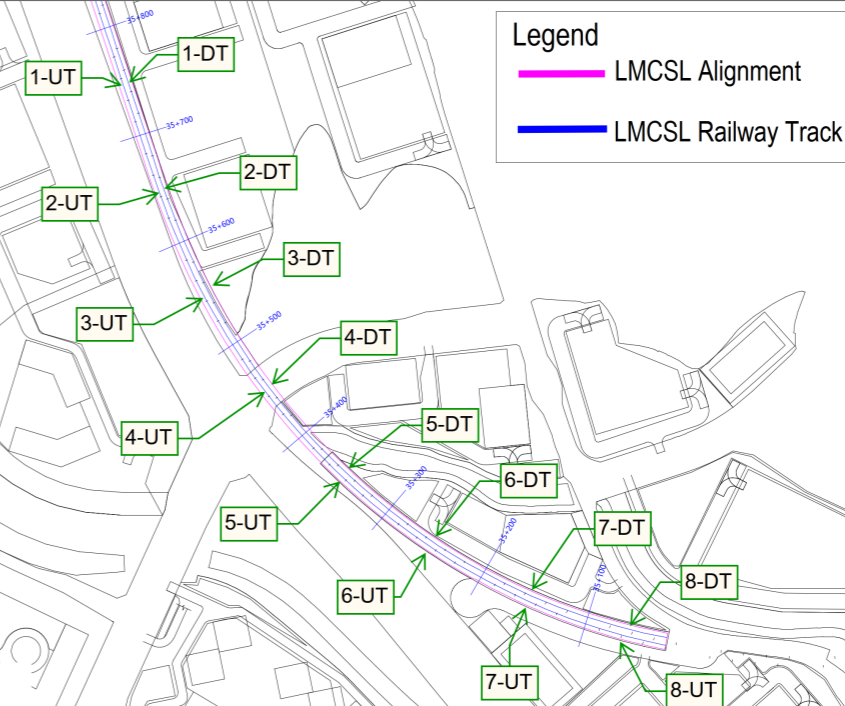
- LEGEND:**
- SITE BOUNDARY
 - LOK MA CHAU SPURS LINE (VIADUCT SECTION)
 - LOK MA CHAU SPURS LINE (UNDERGROUND SECTION)
 - 300m RAILWAY NOISE ASSESSMENT AREA FROM 'LOK MA CHAU SPURS LINE'
 - REPRESENTATIVE ASSESSMENT POINT FOR RAILWAY NOISE IMPACT ASSESSMENT

NSR ID	Assessment Level, mPD	Area Sensitivity Rating	Noise Criteria, dB(A)			
			Predicted Railway Noise Levels, dB(A)		Noise Criteria, dB(A)	
			L _{eq} 30 min [1]	L _{eq} 30 min (Daytime & evening)	L _{eq} 30 min (Nighttime)	L _{max}
P-OU(MU)211-R2	39.7-174.1	B	65-55	52-53	50-52	69-71
P-OU(MU)211-R10	39.7-167.7	B	65-55	52-54	50-52	69-71
P-OU(MU)211-R14	39.7-161.3	B	65-55	52-53	50-52	69-71

Note: [1] The noise criteria are presented for [Daytime & evening/ Nighttime criteria].



Train speed profile adopted for airborne railway noise calculation



- Legend**
- LMCSL Alignment
 - LMCSL Railway Track

Speed Profile			
UT	Speed(kph)	DT	Speed(kph)
1-UT	80	1-DT	95
2-UT	80	2-DT	95
3-UT	80	3-DT	95
4-UT	80	4-DT	95
5-UT	100	5-DT	115
6-UT	100	6-DT	115
7-UT	100	7-DT	115
8-UT	100	8-DT	115

Note:
Speed Profile of trains are reference to Appendix 7.2d of AEIAR-052/2002

- ABBREVIATIONS FOR THE PROPOSED LAND USE:**
1. RSC - PUBLIC HOUSING SITE
 2. R - PRIVATE HOUSING SITE
 3. OU(MU) - OTHER SPECIFIED USES (MIXED USE)
 4. V - VILLAGE TYPE DEVELOPMENT
 5. OU(SP) - OTHER SPECIFIED USES (SCIENCE PARK)
 6. OU(E&T) - OTHER SPECIFIED USES (E&T PARK)
 7. OU(WR&R) - OTHER SPECIFIED USES (WETLAND RESTORATION & RECREATION PARK)
 8. OU(CCC) - OTHER SPECIFIED USES (CULTURAL, CREATIVE, CONVENTION USES WITH PUBLIC OPEN SPACE)
 9. OU(LSW) - OTHER SPECIFIED USES (LOGISTICS STORAGE AND WORKSHOP)
 10. G - GOVERNMENT, INSTITUTION OR COMMUNITY
 11. E - EDUCATION
 12. OU(RAF) - OTHER SPECIFIED USES (RAILWAY ANCILLARY FACILITIES)
 13. OU(VB) - OTHER SPECIFIED USES (VENTILATION BUILDING)
 14. O - OPEN SPACE
 15. GB - GREEN BELT
 16. A - AMENITY

AECOM

PROJECT
 FIRST PHASE DEVELOPMENT OF THE NEW TERRITORIES NORTH – SAN TIN / LOK MA CHAU DEVELOPMENT NODE – INVESTIGATION

CLIENT
 土木工程拓展署
 Civil Engineering and Development Department
 規劃署
 Planning Department

CONSULTANT
 AECOM Asia Company Ltd.
 www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

IR	DATE	DESCRIPTION	CHK.

STATUS

SCALE **DIMENSION UNIT**
 A3 1 : 20000 METRES

PROJECT NO. **AGREEMENT NO.**
 60670882 CE 20/2021

SHEET TITLE
 RAILWAY NOISE IMPACT ASSESSMENT AREA AND REPRESENTATIVE ASSESSMENT POINTS
SHEET NUMBER
 60670882/A31/FIGURE 4.6

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability, whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. All measurements must be obtained from the stated dimensions.

First Phase Development of the New Territories North-San Tin/Lok Ma Chau Development Node-Investigation
 Predicted Railway Noise Levels at Representative Noise Sensitive Receivers

NSR/Floor	Assessment Height (mPD)	Predicted Noise Level, Le _{d30min} , dB(A) Daytime & Evening (07:00-23:00)			Predicted Noise Level, Le _{q30min} , dB(A) Nighttime(23:00-07:00)			Predicted Noise Level, L _{max} , dB(A)		
		P-OU(MU)211-R2	P-OU(MU)211-R10	P-OU(MU)211-R14	P-OU(MU)211-R2	P-OU(MU)211-R10	P-OU(MU)211-R14	P-OU(MU)211-R2	P-OU(MU)211-R10	P-OU(MU)211-R14
43	174.1	52	N/A ^[1]	N/A ^[1]	50	N/A ^[1]	N/A ^[1]	69	N/A ^[1]	N/A ^[1]
42	170.9	52			50			69		
41	167.7	52	52	N/A ^[1]	50	50	N/A ^[1]	69	69	N/A ^[1]
40	164.5	52	52		50	50		69	69	
39	161.3	52	52	52	50	50	50	70	69	69
38	158.1	52	52	52	50	50	50	70	69	69
37	154.9	52	52	52	50	50	50	70	70	69
36	151.7	52	52	52	50	50	50	70	70	69
35	148.5	52	52	52	50	50	50	70	70	69
34	145.3	52	52	52	50	50	50	70	70	70
33	142.1	52	52	52	50	51	50	70	70	70
32	138.9	52	52	52	50	51	50	70	70	70
31	135.7	52	52	52	51	51	51	70	70	70
30	132.5	52	52	52	51	51	51	70	70	70
29	129.3	52	53	52	51	51	51	70	70	70
28	126.1	52	53	52	51	51	51	70	70	70
27	122.9	52	53	53	51	51	51	70	70	70
26	119.7	53	53	53	51	51	51	70	70	70
25	116.5	53	53	53	51	51	51	70	70	70
24	113.3	53	53	53	51	51	51	70	70	70
23	110.1	53	53	53	51	51	51	70	70	70
22	106.9	53	53	53	51	51	51	71	70	70
21	103.7	53	53	53	51	51	51	71	70	70
20	100.5	53	53	53	51	51	51	71	71	70
19	97.3	53	53	53	51	51	51	71	71	70
18	94.1	53	53	53	51	51	51	71	71	70
17	90.9	53	53	53	51	51	51	71	71	70
16	87.7	53	53	53	51	51	51	71	71	70
15	84.5	53	53	53	51	51	51	71	71	71
14	81.3	53	53	53	51	51	51	71	71	71
13	78.1	53	53	53	51	51	51	71	71	71
12	74.9	53	53	53	51	51	51	71	71	71
11	71.7	53	53	53	51	51	51	71	71	71
10	68.5	53	53	53	51	52	51	71	71	71
9	65.3	53	53	53	51	52	51	71	71	71
8	62.1	53	53	53	51	52	51	71	71	71
7	58.9	53	53	53	51	52	51	71	71	71
6	55.7	53	53	53	51	52	51	71	71	71
5	52.5	53	53	53	52	52	52	71	71	71
4	49.3	53	53	53	52	52	52	71	71	71
3	46.1	53	54	53	52	52	52	71	71	71
2	42.9	53	54	53	52	52	52	71	71	71
1	39.7	53	54	53	52	52	52	71	71	71
Max		53	54	53	52	52	52	71	71	71
Noise Criteria, dB(A)		65			55					

Note:
 [1] N/A: No noise sensitive uses