

## APPENDIX A

### CALCULATION OF CONSTRUCTION NOISE IMPACT

Table A1.1a Calculation of Sound Power Level for the Construction Works of Realigned Pipeline - DP portion

Equipment	No. of equipment	Utilisation rate	CNP	Referenced SWL, dB(A)	Corr. for no. of equipment	Corr. for use	SWL after corr.
Excavator	2	80%	BS C8-15	103	3	-1	105.0
Crane lorry	1	50%	BS C7-101	94	0	-3	91.0
Dump truck	1	20%	BS C9-39	103	0	-7	96.0
Power generator	1	100%	CNP 103	100	0	0	100.0
Pump	2	100%	CNP 283	85	3	0	88.0
Compactor	1	100%	CNP 050	105	0	0	105.0
Overall SWL							109.0

Table A1.1b Calculation of Sound Power Level for the Construction Works of Non DP portion Pipeline

Equipment	No. of equipment	Utilisation rate	CNP	Referenced SWL, dB(A)	Corr. for no. of equipment	Corr. for use	SWL after corr.
Excavator	2	80%	BS C8-15	103	3	-1	105.0
Crane lorry	1	50%	BS C7-101	94	0	-3	91.0
Dump truck	1	20%	BS C9-39	103	0	-7	96.0
Power generator	1	100%	CNP 102	100	0	0	100.0
Pump	2	100%	CNP 283	85	3	0	88.0
Compactor	1	100%	CNP 050	105	0	0	105.0
Overall SWL							109.0

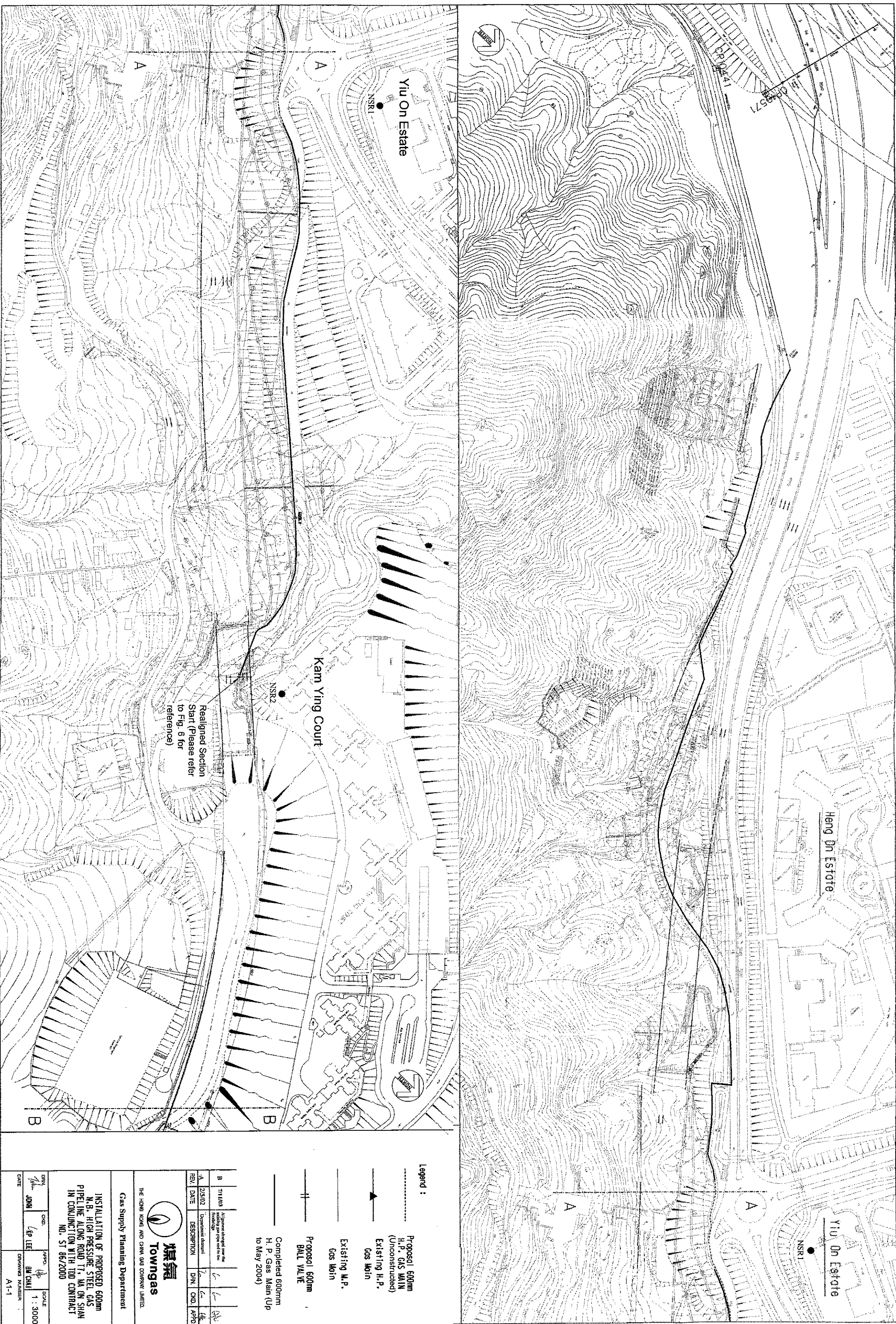
Table A1.2 Calculation of Predicted Construction Noise Level at the NSR due to DP portion of Realigned Pipeline construction works

Distance (m)	Dist. Corr., dB(A)	Facade Corr, dB(A)	Overall Leq, dB(A)	Standard, Leq, dB(A)	Sensitive Uses Residential
180	-53.1	3	59	75	

Table A1.3 Calculation of Predicted Construction Noise Level at the NSRs along Road T7 due to non-DP Portion ETP-T7 section only (for reference only)

Slant Distance (m)	Dist. Corr., dB(A)	Facade Corr, dB(A)	Overall Leq, dB(A)	Standard, Leq, dB(A)	Sensitive Uses School	NSR
89	-47.0	3	65	70		1
39	-39.8	3	72	75	Residential	2

Please refers to Figure A1-1 for the location of the NSRs



**Legend :**

- Proposed 600mm H.P. GAS MAIN (Unconstructed)
- Existing H.P. Gas Main
- Existing M.P. Gas Main
- Proposed 600mm BALL VALVE
- Completed 600mm H.P. Gas Main (Up to May 2004)

REV.	DATE	DESCRIPTION	DWN.	CHKD.	APP'D.
B	7/11/03	As issued subject to the knowledge of the Engineer			
A	2/5/02	Revised drawing			



THE HONG KONG AND CHINA GAS COMPANY LIMITED  
 Gas Supply Planning Department

INSTALLATION OF PROPOSED 600mm N.B. HIGH PRESSURE STEEL GAS PIPELINE ALONG ROAD T1, KA ON SHAN IN CONJUNCTION WITH TDD CONTRACT NO. ST 86/2000

DATE	7/11/03	SCALE	1 : 3000
DRAWN	JOH	CHECKED	JW
DATE		DRAWING NUMBER	A1-1