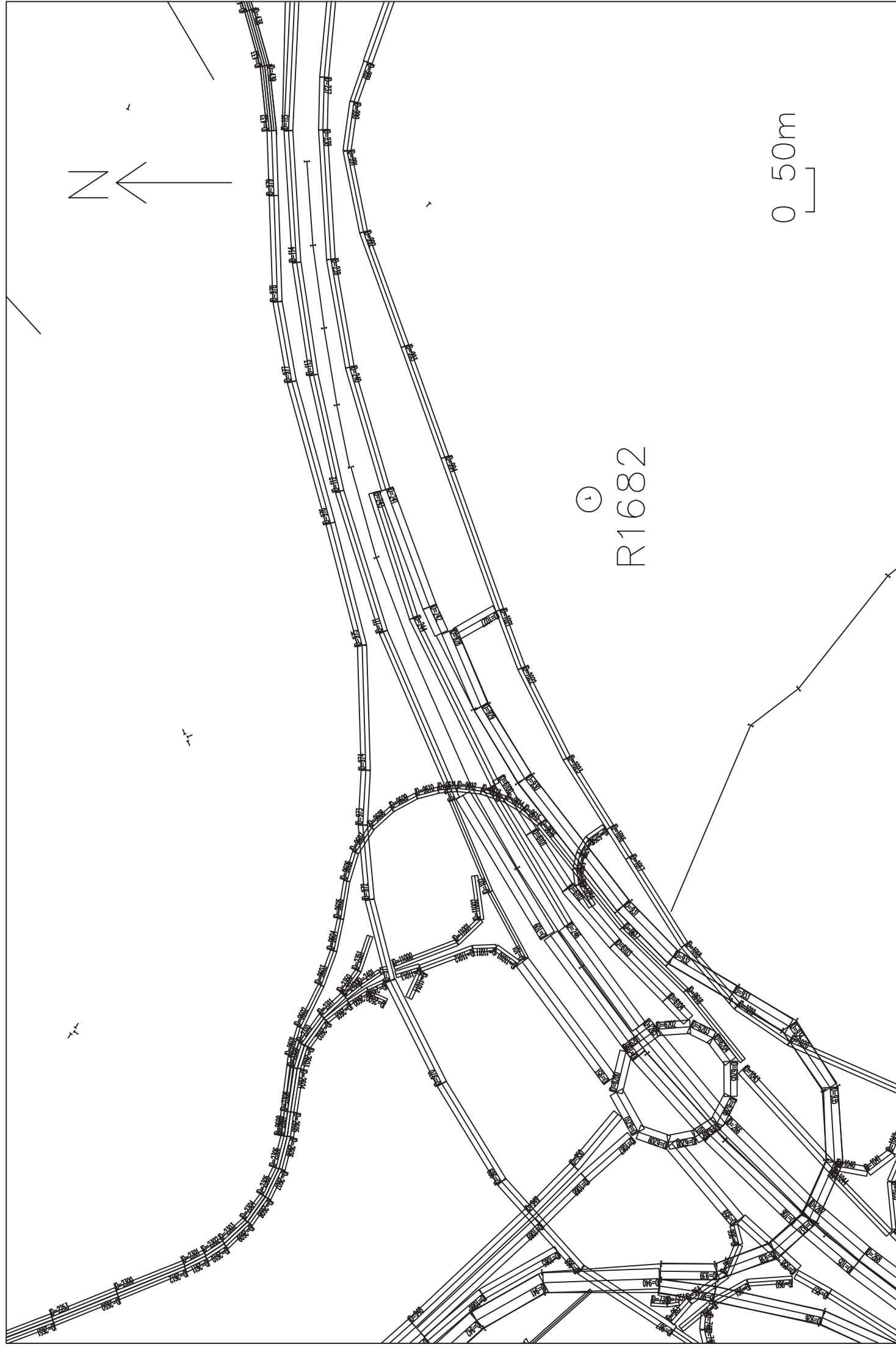
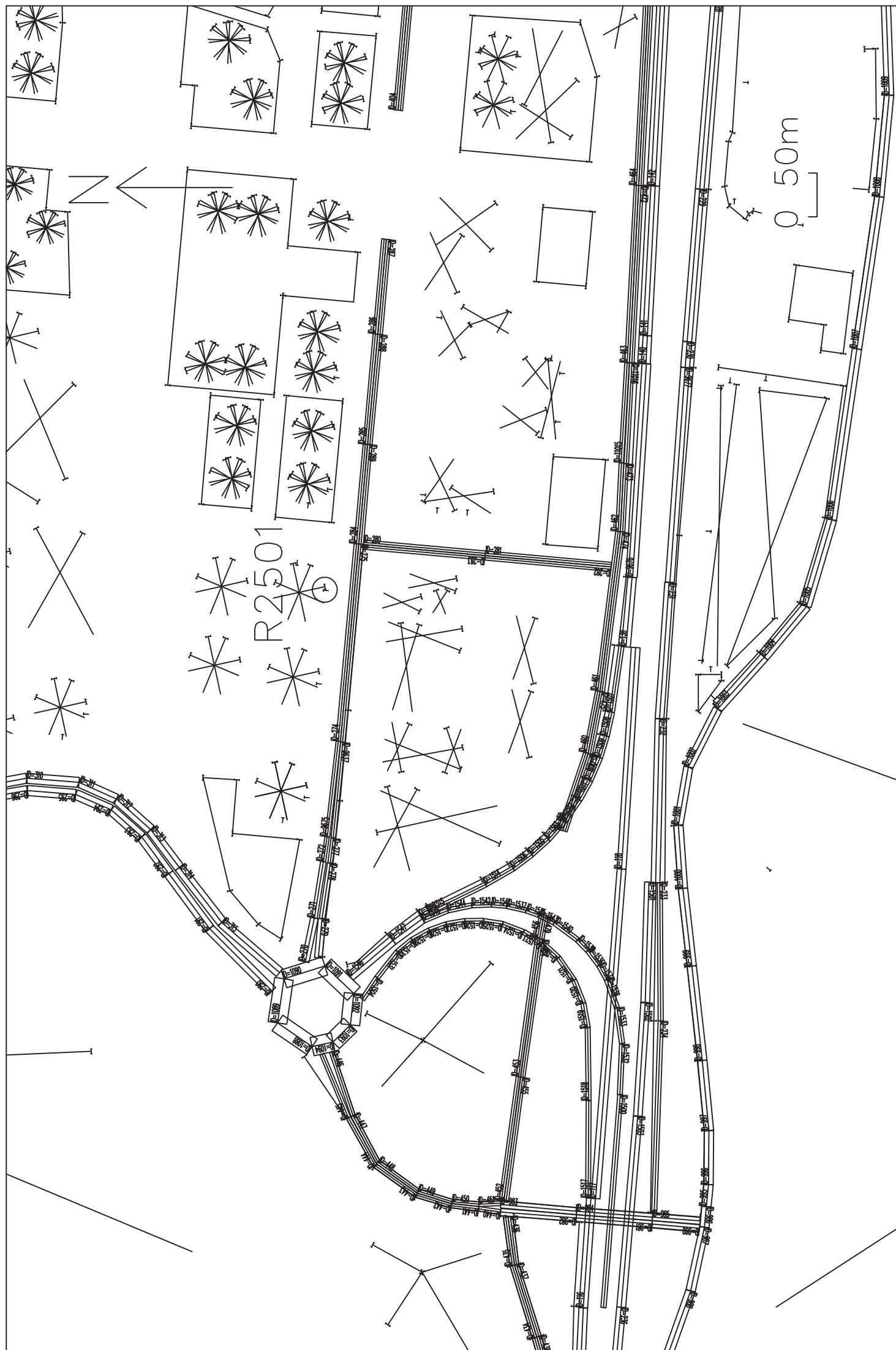


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Project Number		25278 Agreement No. CE61/2007 North East New Development Areas Planning and Engineering Study												
Title		Sample Calculations for Road Traffic Noise Assessment												
Calculation of Road Traffic Noise														
UK Department of Transport 2000														
NSR ID:		R1544		Total, dB(A)		79.1								
Elevation (m PD):		11												
Floor Level:		1 /F												
		Corrections, dB(A)												
Segment Number	Segment Name	Flow Rate (Veh/hr)	HV%	Speed (Km/hr)	Distance (m)	Angle of View (degree)	Basic Noise Level, dB(A)	Surface	Gradient	Angle View	Distance Attenuation	Barrier	Reflection	Segment Total, dB(A)
142	Fanling Highway (EB)	4410	32.2	100	94.9	1.1	85.3	-3.5	0	-22.1	-8.6	-2.4	2.5	51.2
143	Fanling Highway (EB)	4410	32.2	100	96.1	1.7	85.3	-3.5	0	-20.2	-8.7	-2.4	2.5	53
144	Fanling Highway (EB)	4410	32.2	100	93.2	4.9	85.3	-3.5	0	-15.6	-8.6	-0.5	2.5	59.6
145	Fanling Highway (EB)	4410	32.2	100	85	4.8	85.3	-3.5	0	-15.8	-8.2	-1.5	2.5	58.8
146	Slip Road (EB) to Roundabout (South of KTN)	271	14.4	50	96.6	10.9	67.5	-1	0.2	-12.2	-8.7	-14.8	3.3	34.3
147	Slip Road (EB) to Roundabout (South of KTN)	271	14.4	50	76.6	67.4	67.3	-1	1.4	-4.3	-7.8	-15.2	42.9	42.9
148	Slip Road (EB) to Roundabout (South of KTN)	271	14.4	50	76.5	21.6	67.5	-1	0.5	-9.2	-7.7	-14.4	2.5	37.7
149	Fanling Highway (EB)	4143	33.4	100	68.4	17.8	85.2	-3.5	0	-10.1	-7.3	-2.5	2.5	64.3
150	Fanling Highway (EB)	4143	33.4	100	64.2	99.2	85.1	-3.5	0.3	-2.6	-7	-2.3	2.5	72.5
151	Fanling Highway (EB)	4143	33.4	100	64.3	35.8	85.2	-3.5	0.1	-7	-7	-3	2.5	67.3
152	Fanling Highway (EB)	4143	33.4	100	63.6	9.1	85.2	-3.5	0	-13	-7	-8.8	2.5	55.4
155	Slip Road (EB) from Roundabout (South of KTN)	1057	18.9	50	76.6	8.3	74.2	-1	0	-13.4	-7.8	-19.9	2.5	34.6
156	Slip Road (EB) from Roundabout (South of KTN)	1057	18.9	50	63.4	1.9	74.2	-1	0	-19.7	-7	-20.6	2.9	28.8
210	Fanling Highway (WB)	5640	27.3	100	135.2	1.1	85.9	-3.5	0.4	-22.1	-10.1	-10.6	3.1	43.1
212	Fanling Highway (WB)	5640	27.3	100	75.4	1.2	86	-3.5	0	-21.6	-7.7	-2	3.3	54.5
215	Slip Road (WB) to Roundabout (South of KTN)	1492	31.8	50	30.6	1.9	77.1	-1	1.2	-19.8	-4.4	-13.4	2.5	42.2
216	Slip Road (WB) to Roundabout (South of KTN)	1492	31.8	50	41.3	5.7	77.1	-1	1.2	-15	-5.4	-17.4	2.5	42
217	Slip Road (WB) to Roundabout (South of KTN)	1492	31.8	50	36.7	4.2	77.2	-1	0.7	-16.3	-4.9	-17.1	2.5	41.1
218	Fanling Highway (WB)	3971	34.7	100	47	3.5	85	-3.5	0.5	-17.1	-5.7	-9.4	2.5	52.3
219	Fanling Highway (WB)	3971	34.7	100	33.1	85.1	-3.5	0	-7.4	-5.3	-2.6	2.5	67.8	
220	Fanling Highway (WB)	3971	34.7	100	39.2	127.4	85.1	-3.5	0	-1.5	-5	-1.8	2.5	75.8
221	Slip Road (WB) from Roundabout (South of KTN)	314	37.3	50	31.7	61.2	71.1	-1	0	-4.7	-4.3	-11.4	2.5	52.2
222	Slip Road (WB) from Roundabout (South of KTN)	314	37.3	50	32.1	57	71.1	-1	0	-5	-4.3	-11.3	2.5	52
223	Slip Road (WB) from Roundabout (South of KTN)	314	37.3	50	35.9	4.3	71.1	-1	0	-16.2	-4.9	-12.3	2.5	39.2
224	Fanling Highway (WB)	4274	34.7	100	33.8	3.8	85.3	-3.5	0.3	-16.8	-4.4	-0.2	2.5	63.2
225	Fanling Highway (WB)	4274	34.7	100	40	2.7	85.4	-3.5	0	-18.3	-5.1	-1.7	2.5	59.3
226	Fanling Highway (WB)	4274	34.7	100	31.1	1.8	85.4	-3.5	0	-20	-4.1	-7	2.5	53.3
274	Internal Road (EB) South of A1-2	247	25.1	50	270.7	1.3	68.8	-1	0	-21.4	-13.1	-30.5	2.6	5.4
275	Internal Road (WB) South of A1-2	356	25.1	50	265.7	1.3	71.7	-1	0	-21.5	-13	-30.4	2.5	8.4
392	Internal Road (NB) from Roundabout (South of KTN)	1733	32.3	50	43	5.5	78.1	-1	0	-15.2	-5.5	-18.7	2.5	40.2
393	Internal Road (NB) from Roundabout (South of KTN)	1733	32.3	50	93.7	7.4	78.1	-1	0	-13.8	-8.6	-17.8	2.5	39.4
394	Internal Road (NB) from Roundabout (South of KTN)	1733	32.3	50	143.8	7.9	78.1	-1	0	-13.6	-10.4	-17.2	2.5	38.4
395	Internal Road (NB) from Roundabout (South of KTN)	1733	32.3	50	171.1	22.8	78.1	-1	0	-9	-11.1	-21.6	2.5	37.9
396	Internal Road (NB) from Roundabout (South of KTN)	1733	32.3	50	170.7	5.9	78.1	-1	0	-14.8	-11.1	-30.2	2.5	23.5
399	Internal Road (NB) to Roundabout (South of KTN)	1442	39.6	50	181.5	6.1	77.8	-1	0.5	-14.7	-11.4	-29.8	2.5	23.9
400	Internal Road (NB) to Roundabout (South of KTN)	1442	39.6	50	181.9	22.9	77.9	-1	0.3	-8.9	-11.4	-20.9	2.5	38.5
401	Internal Road (NB) to Roundabout (South of KTN)	1442	39.6	50	156.2	8.6	77.8	-1	0	-13.2	-10.7	-17.1	2.5	39.3
402	Internal Road (NB) to Roundabout (South of KTN)	1442	39.6	50	103.7	8.6	77.8	-1	0.9	-13.2	-9	-17.5	2.5	40.5
403	Internal Road (NB) to Roundabout (South of KTN)	1442	39.6	50	101.8	10.8	77.7	-1	1.1	-12.2	-8.9	-15.9	2.5	43.3
404	Internal Road (EB) South of A1-6	246	22	50	272.4	2.5	68.4	-1	0	-18.5	-13.1	-30.3	3.3	8.8
405	Internal Road (EB) South of A1-6	290	28.6	50	273.6	2.6	69.9	-1	0	-18.4	-13.1	-29.1	3.7	12
406	Internal Road (EB) South of A1-6	290	28.6	50	271.7	3.5	69.9	-1	0	-17.1	-13.1	-30.2	3.4	12.5
407	Internal Road (WB) South of A1-6	290	26.6	50	268.9	2.6	69.5	-1	0	-17.2	-13	-30.3	2.5	11
408	Internal Road (WB) South of A1-6	290	26.6	50	268	2.6	69.5	-1	0.5	-18.4	-13	-29.6	2.5	10.5
409	Internal Road (WB) South of A1-6	228	14	50	269.6	2.5	66.5	-1	1.2	-18.6	-13.1	-30.3	2.5	7.2
424	Internal Road (NB) South of A1-9	219	14.2	50	95.3	1.4	66.6	-1	0	-21.2	-8.6	-10.4	2.5	27.9
425	Internal Road (SB) South of B3-5	219	18.2	50	90.7	1.3	67.9	-1	0	-21.5	-8.4	-10.2	2.5	29.3
1137	Internal Road (NB) South of B3-5	22	18.2	50	63.5	2.5	57.3	-1	0	-18.5	-7	-12.2	2.6	21.2
1136	Internal Road (NB) South of B3-5	22	18.2	50	91.1	1.5	57.3	-1	0	-20.9	-8.5	-11.1	2.5	18.3
426	Internal Road (NB) South of B3-5	22	18.2	50	92.1	1.5	57.3	-1	0	-20.7	-8.5	-10.7	3.6	20
427	Internal Road (SB) South of B3-5	15	13.3	50	87.9	1.5	54.8	-1	0.2	-20.9	-8.3	-10.7	2.5	16.6
1138	Internal Road (SB) South of B3-5	15	13.3	50	87.7	1.4	54.8	-1	0.3	-21.1	-8.3	-11	2.5	16.2
1139	Internal Road (SB) South of B3-5	15	13.3	50	67.3	2.6	54.9	-1	0	-18.4	-7.2	-11.8	2.5	19
464	Castle Peak Road (EB)	397	15.6	50	112.9	1.5	69.4	-1	0.2	-20.9	-9.4	-2.2	2.5	38.6
466	Castle Peak Road (EB)	460	25.2	50	111.5	1.3	71.5	-1	0	-21.3	-9.3	-1.6	2.5	40.8
469	Castle Peak Road (WB)	429	22.4	50	108.8	1.3	70.8	-1	0.4	-21.3	-9.2	-1.7	2.5	40.4
471	Castle Peak Road (WB)	315	14.6	50	108.8	1.4	68.3	-1	0	-21.1	-9.2	-2	2.5	37.5
481	Castle Peak Road (EB)	460	25.2	50	110.5	2.4	71.5	-1	0	-18.8	-9.3	-3.2	2.5	41.7
482	Castle Peak Road (EB)	460	25.2	50	108.2	3.5	71.4	-1	0.1	-17.2	-9.2	-2.7	2.5	43.9
483	Castle Peak Road (EB)	460	25.2	50	105.3	3.7	71.4	-1	0.1	-16.9	-9.1	-2.2	2.5	44.8
484	Castle Peak Road (EB)	460	25.2	50	111.6	6.8	71.4	-1	0.1	-14.2	-9.3	-2.3	3.4	48.1
485	Castle Peak Road (EB)	460	25.2	50	95.8	8.8	71.5	-1	0	-13.1	-8.7	-2.1	2.5	49.1
486	Castle Peak Road (WB)	429	22.4	50	92.3	8.7	70.8	-1	0	-13.2	-8.5	-2	2.5	48.6
487	Castle Peak Road (WB)	429	22.4	50	107.9	6.6	70.8	-1	0	-14.3	-9.2	-2.2	3.3	47.4
488	Castle Peak Road (WB)	429	22.4	50	101.5	3.6	70.8	-1	0	-17	-8.9	-2.1	2.5	44.3
489	Castle Peak Road (WB)	429	22.4	50	104.8	3.4	70.8	-1	0	-17.3	-9	-2.6	2.5	43.4
490	Castle Peak Road (WB)	429	22.4	50	106.2	2.3	70.8	-1	0	-18.9	-9.1	-2.9	2.5	41.4
492	Kwu Tung Road (NB) Elevated Rd	278	43.9	50	132.1	5	70.9	-1	0.9	-15.6	-10	-2.3	2.5	45.4
493	Kwu Tung Road (NB) Elevated Rd	278	43.9	50	85.1	1.7	70.9	-1	0	-20.2	-8.2	-1.5	2.5	43.9
495	Kwu Tung Road (NB) Elevated Rd	278	43.9	50	109.3	3	70.9	-1	0.7	-17.8	-9.2	-2	2.5	44.2
496	Kwu Tung Road (NB) Elevated Rd	278	43.9	50	207.8	4.6	71	-1	0.7	-15.9	-11.9	-3.6	2.5	41.8
497	Kwu Tung Road (NB) Elevated Rd	278	43.9	50	260	6	71	-1	0.6	-14.8	-12.9	-3.8	2.5	41.6
498	Kwu Tung Road (NB) Elevated Rd	278	43.9	50	290	6.6	71	-1	0.7	-14.4	-13.4	-3.7	2.5	41.7
499	Kwu Tung Road (NB) Elevated Rd	278	43.9	50	294.3	18.6	71.9	-1	0.6	-9.9	-13.4	-3.4	2.5	41.5
500	Kwu Tung Road (NB) Elevated Rd	278	43.9	50	293.9	3.9	71.1	-1	0	-16.6	-13.4	-3.4	2.5	39.2
505	Kwu Tung Road (SB) Elevated Rd	165	35.8	50	297.9	4.1	68	-1	1.2	-16.4	-13.5	-3.9	2.5	36.9
506	Kwu Tung Road (SB) Elevated Rd	165	35.8	50	298									

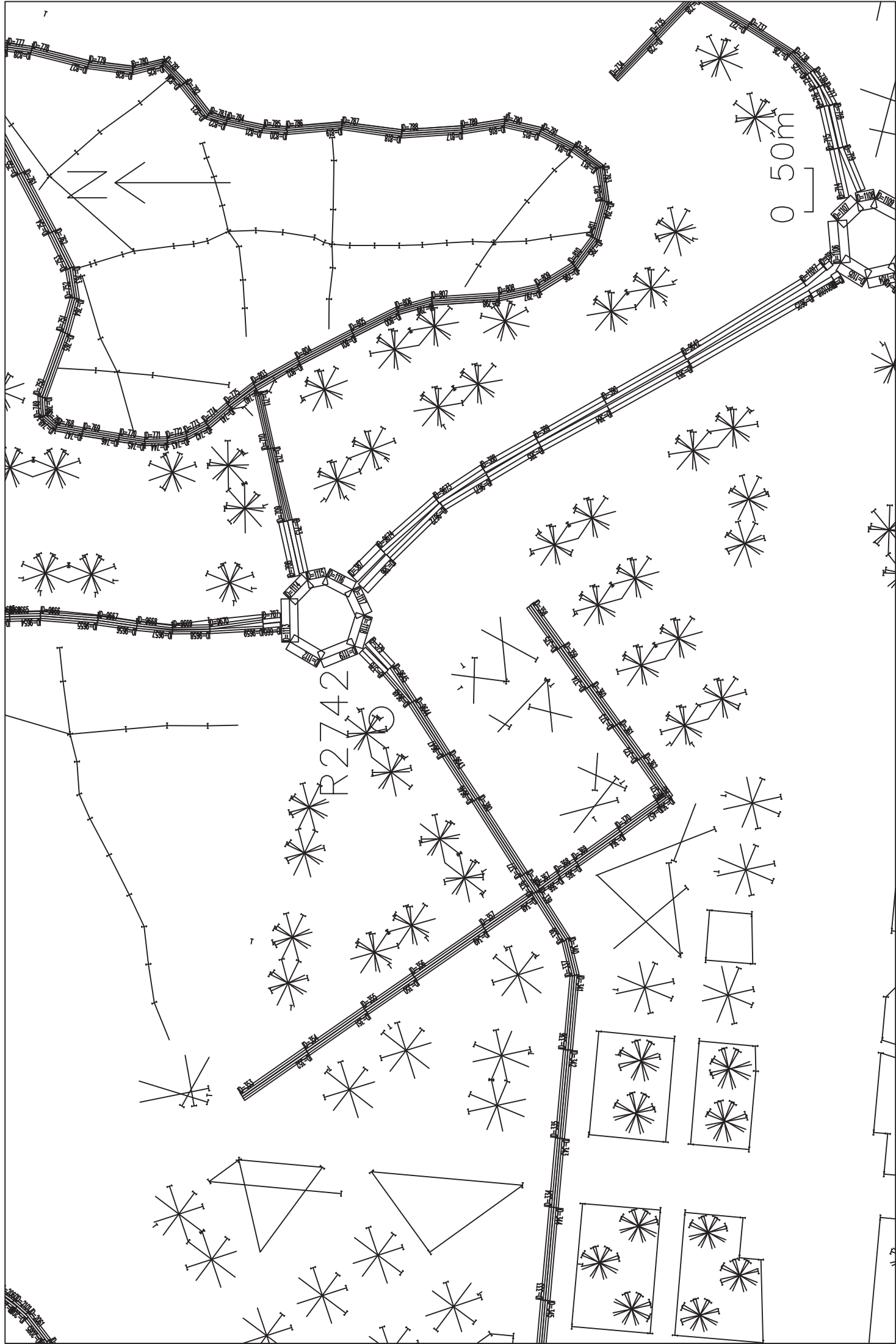


Project Number	25278 Agreement No. CE61/2007 North East New Development Areas Planning and Engineering Study													
Title	Sample Calculations for Road Traffic Noise Assessment													
Calculation of Road Traffic Noise														
UK Department of Transport 2000														
NSR ID:	R1682			Total, dB(A)		76.1								
Elevation (m PD):	14.5													
Floor Level:	1 /F													
Segment Number	Segment Name	Flow Rate (Veh/hr)	HV%	Speed (Km/hr)	Distance (m)	Angle of View (degree)	Basic Noise Level, dB(A)	Corrections, dB(A)					Segment Total, dB(A)	
								Surface	Gradient	Angle View	Distance Attenuation	Barrier	Reflection	
101	Slip Road to Fanling Highway	888	36.7	50	216.6	6.3	75.6	-1	0	-14.6	-12.1	-0.5	2.5	49.9
102	Slip Road to Fanling Highway	888	36.7	50	192.8	10.3	75.6	-1	0	-12.4	-11.6	-1.2	2.5	51.9
106	Fanling Highway (EB)	3775	29.5	100	293.1	1	84.5	-3.5	0	-22.5	-13.4	-1.7	2.5	45.9
107	Fanling Highway (EB)	3775	29.5	100	261.9	5.7	84.4	-3.5	0	-15	-12.9	-1.2	2.5	54.3
108	Fanling Highway (EB)	3775	29.5	100	225.5	10.1	84.5	-3.5	0	-12.5	-12.3	-1.3	2.5	57.4
109	Fanling Highway (EB)	3775	29.5	100	202.9	17.6	84.5	-3.5	0	-10.1	-11.8	-1.7	2.5	59.9
110	Fanling Highway (EB)	4670	31	100	190.1	33.1	85.5	-3.5	0.1	-7.4	-11.6	-1.8	2.5	63.8
111	Fanling Highway (EB)	4670	31	100	185.4	34.6	85.4	-3.5	0.4	-7.2	-11.5	-2.3	2.5	63.8
112	Fanling Highway (EB)	4670	31	100	190.1	22.5	85.4	-3.5	0.2	-9	-11.6	-1.6	2.5	62.4
113	Fanling Highway (EB)	4670	31	100	199.6	14.7	85.4	-3.5	0.3	-10.9	-11.8	-1.8	2.5	60.2
114	Fanling Highway (EB)	4670	31	100	218.7	11.8	85.4	-3.5	0.2	-11.8	-12.2	-1.8	2.5	58.8
115	Fanling Highway (EB)	4670	31	100	250.9	9.6	85.4	-3.5	0.2	-12.7	-12.8	0	2.5	59.1
116	Fanling Highway (EB)	4670	31	100	260.4	5	85.4	-3.5	0.3	-15.5	-12.9	0	2.5	56.3
117	Fanling Highway (EB)	3928	32.8	100	260.9	9.2	84.8	-3.5	0.1	-12.9	-12.9	-3.9	2.5	54.2
118	Fanling Highway (EB)	3928	32.8	100	249.4	3	84.8	-3.5	0	-17.8	-12.7	-9.9	2.5	43.4
232	Fanling Highway (WB)	4274	34.7	100	192.5	1.3	85.4	-3.5	0	-21.4	-11.6	11.1	2.5	40.3
233	Slip Road (WB) to Kwu Tung Rd	466	23.8	50	167.2	2.1	71.2	-1	0.8	-19.4	-11	12.1	2.5	31
234	Slip Road (WB) to Kwu Tung Rd	466	23.8	50	192.7	4.9	71.2	-1	1.1	-15.7	-11.7	-9.9	2.5	36.5
236	Fanling Highway (WB)	4246	35.9	100	239.1	5.9	85.5	-3.5	0	-14.9	-12.5	0	2.5	57.1
237	Fanling Highway (WB)	4246	35.9	100	216.5	3.7	85.5	-3.5	0	-16.9	-12.1	0	2.5	55.5
238	Fanling Highway (WB)	4246	35.9	100	191.1	11.4	85.5	-3.5	0	-12	-11.6	0	2.5	60.9
239	Fanling Highway (WB)	4246	35.9	100	166.6	14	85.5	-3.5	0	-11.1	-11	0	2.5	62.4
240	Fanling Highway (WB)	4246	35.9	100	150.4	26.4	85.5	-3.5	0	-8.3	-10.6	0	2.5	65.6
241	Slip Road (WB) to San Sham Rd	61	100	50	143.9	36.9	67.7	-1	0	-6.9	-10.4	0	2.5	51.9
242	Slip Road (WB) to San Sham Rd	61	100	50	146	8.2	67.6	-1	0.8	-13.4	-10.4	0	2.5	46.1
243	Fanling Highway (WB)	3423	37.6	100	159.4	36	84.6	-3.5	0	-7	-10.8	0	2.5	65.8
244	Fanling Highway (WB)	3423	37.6	100	164.7	37.7	84.6	-3.5	0	-6.8	-11	0	2.5	65.8
245	Fanling Highway (WB)	3423	37.6	100	184.5	16.4	84.6	-3.5	0	-10.4	-11.4	0	2.5	61.8
246	Fanling Highway (WB)	3423	37.6	100	210.7	8.5	84.6	-3.5	0	-13.3	-12	0	2.5	58.3
265	Fanling Highway (WB)	3423	37.6	100	229.5	6	84.6	-3.5	0	-14.8	-12.4	-0.1	2.5	56.3
432	Castle Peak Road (EB)	333	16.8	50	221.8	3.9	68.6	-1	1.1	-16.6	-12.2	-4.3	2.5	38.1
433	Castle Peak Road (EB)	333	16.8	50	155.9	2	68.6	-1	1.3	-19.5	-10.8	-1.5	2.5	39.6
434	Castle Peak Road (EB)	333	16.8	50	144.5	2	68.7	-1	1	-19.6	-10.4	-1.3	2.5	39.9
435	Castle Peak Road (EB)	333	16.8	50	226.5	1.7	68.7	-1	0.9	-20.3	-12.3	-1.9	2.5	36.6
436	Castle Peak Road (WB)	592	17.4	50	226.4	1.7	71.5	-1	0	-20.3	-12.3	-2	2.5	38.4
437	Castle Peak Road (WB)	592	17.4	50	139.1	1.9	71.5	-1	0	-19.8	-10.3	-1.6	2.7	41.5
438	Castle Peak Road (WB)	592	17.4	50	152.3	2	71.5	-1	0	-19.6	-10.7	-1.6	2.5	41.1
439	Castle Peak Road (WB)	592	17.4	50	216.8	3.9	71.5	-1	0	-16.6	-12.1	-4.7	2.5	39.6
443	Internal Road (NB) to Roundabout (West of KTN)	369	22.5	50	197.7	1.1	70.2	-1	0.3	-22.1	-11.7	20	2.5	18.2
445	Internal Road (NB) to Roundabout (West of KTN)	369	22.5	50	171.4	1	70.2	-1	0.3	-22.5	-11.1	17	2.5	21.4
446	Internal Road (SB) from Roundabout (West of KTN)	148	38.5	50	215.5	1.2	68	-1	0	-21.6	-12.1	14.7	2.5	21.1
448	Internal Road (SB) from Roundabout (West of KTN)	148	38.5	50	194.9	1.1	68	-1	0	-22.3	-11.7	19	2.5	16.5
928	Slip Road (NB) to San Sham Road	67	100	50	137.9	19.1	67.9	-1	1.2	-9.7	-10.2	0	2.5	50.7
929	Slip Road (NB) to San Sham Road	67	100	50	153.7	14.5	67.9	-1	1.6	-10.9	-10.7	0	2.5	49.4
930	Slip Road (NB) to San Sham Road	67	100	50	171.2	17.6	68	-1	0.8	-10.1	-11.1	-1.5	2.5	47.6
931	Slip Road (NB) to San Sham Road	67	100	50	201.9	5.6	68	-1	0.4	-15.1	-11.8	-2	2.5	41
932	Slip Road (NB) to San Sham Road	67	100	50	276.4	1.4	68.1	-1	0	-21.2	-13.2	-2.5	2.5	32.7
951	Slip Road (EB) from San Tin Interchange	1269	28.8	50	258.1	10.2	76.3	-1	0	-12.5	-12.9	10.9	2.5	41.5
959	Connecting Road (EB) to San Tin Interchange	1081	32.7	50	277.1	4.3	75.8	-1	0.8	-16.2	-13.2	-0.1	2.5	48.6
1027	Connecting Road (NB) to San Sham Slip Road	6	100	50	36.9	5	57.6	-1	0	-15.6	-4.8	0	2.5	38.7
971	Castle Peak Rd - Chau Tau (2-way) 181+182	880	15.2	50	246	6.3	72.8	-1	0.2	-14.6	-12.7	-1.6	2.5	45.6
972	Castle Peak Rd - Chau Tau (2-way) 181+182	880	15.2	50	200.6	8	72.8	-1	0.2	-14.8	-11.8	-1.6	2.5	46.3
973	Castle Peak Rd - Chau Tau (2-way) 181+182	880	15.2	50	162.6	4.7	72.8	-1	0.1	-15.8	-10.9	-1.5	2.5	46.2
974	Castle Peak Rd - Chau Tau (2-way) 181+182	880	15.2	50	181.3	17.7	72.8	-1	0.1	-10.1	-11.4	-2.4	2.5	50.5
975	Castle Peak Rd - Chau Tau (2-way) 181+182	880	15.2	50	201.7	27.6	72.8	-1	0.1	-8.2	-11.8	-5.1	2.5	49.3
976	Castle Peak Rd - Chau Tau (2-way) 181+182	880	15.2	50	201.2	27	72.8	-1	0.1	-8.2	-11.8	-7.4	2.5	47
977	Castle Peak Rd - Chau Tau (2-way) 181+182	880	15.2	50	214.1	10.9	72.8	-1	0	-12.2	-12.1	-8.1	2.5	41.9
978	Castle Peak Rd - Chau Tau (2-way) 181+182	880	15.2	50	240.2	11.6	72.6	-1	0.8	-11.9	-12.6	-7.7	2.5	42.7
979	Castle Peak Rd - Chau Tau (2-way) 181+182	880	15.2	50	240.2	5.3	72.7	-1	0.7	-15.3	-12.6	-5.3	2.5	41.7
987	Kwu Tong Road (2-way) 185+186	883	60.1	50	233.6	3.1	77.2	-1	0.6	-17.6	-12.4	0	4	50.8
988	Kwu Tong Road (2-way) 185+186	883	60.1	50	280.2	7.6	77.3	-1	0.4	-13.7	-13.2	0	2.5	52.3
989	Kwu Tong Road (2-way) 185+186	883	60.1	50	279.7	3.8	77.1	-1	2.2	-16.8	-13.2	0	2.5	50.8
990	Kwu Tong Road (2-way) 185+186	883	60.1	50	227.4	4.2	77.1	-1	1.9	-16.4	-12.3	0	2.5	51.8
991	Kwu Tong Road (2-way) 185+186	883	60.1	50	130.8	5.4	77.1	-1	1.1	-15.2	-10	0	2.5	54.5
992	Kwu Tong Road (2-way) 185+186	883	60.1	50	93.2	10.1	77.2	-1	0.6	-12.5	-8.6	0	2.5	58.2
993	Kwu Tong Road (2-way) 185+186	883	60.1	50	93.8	23.7	77.3	-1	0.1	-8.8	-8.6	0	2.5	61.5
994	Kwu Tong Road (2-way) 185+186	883	60.1	50	93.8	67.8	77.3	-1	0.2	-4.2	-8.6	0	2.5	66.2
996	Kwu Tong Road (2-way) 187+188	731	53.8	50	134.8	1.1	75.9	-1	0.7	-22	-10.1	0	2.5	46
1016	Kwu Tong Road (2-way) 189+190	522	61.9	50	122.9	2.7	74.9	-1	1.5	-18.3	-9.7	0	2.5	49.9
1017	Kwu Tong Road (2-way) 189+190	522	61.9	50	122.8	5.3	75.1	-1	0.4	-15.3	-9.7	-0.3	2.5	51.7
1021	Kwu Tong Road (2-way) 191+192	520	59.2	50	94.7	17	74.9	-1	0.3	-10.3	-8.6	0	2.5	57.8
1022	Kwu Tong Road (2-way) 191+192	520	59.2	50	105.6	16.7	75	-1	0.2	-10.3	-9.1	0	2.5	57.3
1023	Kwu Tong Road (2-way) 191+192	520	59.2	50	122.2	8.5	74.9	-1	0.4	-13.2	-9.7	0	2.5	53.9
1500	Slip Road (WB) to FLH (from KTN)	450	21.3	50	249.1	8.5	70.9	-1	0	-13.3	-12.7	-0.6	2.5	45.8
1501	Fanling Highway (WB)	3816	36.1	100	202.4	2.1	85	-3.5	0	-19.3	-11.8	13.7	2.5	



Project Number		25278 Agreement No. CE61/2007 North East New Development Areas Planning and Engineering Study													
Title		Sample Calculations for Road Traffic Noise Assessment													
Calculation of Road Traffic Noise															
UK Department of Transport 2000															
NSR ID:		R2501		Total, dB(A)		72.1									
Elevation (m PD):		23.5													
Floor Level:		1 /F													
		Corrections, dB(A)													
Segment Number	Segment Name	Flow Rate (Veh/hr)	HV%	Speed (Km/hr)	Distance (m)	Angle of View (degree)	Basic Noise Level, dB(A)	Surface	Gradient	Angle View	Distance Attenuation	Barrier	Reflection	Segment Total, dB(A)	
110	Fanling Highway (EB)	4670	31	100	177.2	1	85.5	-3.5	0.1	-22.4	-11.3	-30	2.5	20.9	
114	Fanling Highway (EB)	4670	31	100	154	1.6	85.4	-3.5	0.2	-20.5	-10.7	-30.1	2.5	23.3	
115	Fanling Highway (EB)	4670	31	100	229.5	3.6	85.4	-3.5	0.2	-17	-12.4	-29.6	2.5	25.6	
116	Fanling Highway (EB)	4670	31	100	242.7	3.8	85.4	-3.5	0.3	-16.7	-12.6	-29.3	2.5	26.1	
117	Fanling Highway (EB)	3928	32.8	100	250.4	22.8	84.8	-3.5	0.1	-9	-12.7	-29.1	2.5	33.1	
118	Fanling Highway (EB)	3928	32.8	100	247.2	32.8	84.8	-3.5	0	-7.4	-12.7	-30	2.5	33.7	
138	Fanling Highway (EB)	4410	32.2	100	240.1	13.1	85.3	-3.5	0	-11.4	-12.6	-29.4	2.5	30.9	
140	Fanling Highway (EB)	4410	32.2	100	243	3	85.3	-3.5	0	-17.7	-12.6	-26.1	2.5	27.9	
141	Fanling Highway (EB)	4410	32.2	100	243.2	12.5	85.3	-3.5	0	-11.6	-12.6	-26.2	2.5	33.9	
142	Fanling Highway (EB)	4410	32.2	100	243	9.6	85.3	-3.5	0	-12.7	-12.6	-30.1	2.5	28.9	
143	Fanling Highway (EB)	4410	32.2	100	243.7	5.9	85.3	-3.5	0	-14.8	-12.6	-28.9	2.5	28	
144	Fanling Highway (EB)	4410	32.2	100	240.9	5.3	85.3	-3.5	0	-15.3	-12.6	-30.5	2.5	25.9	
145	Fanling Highway (EB)	4410	32.2	100	222.7	1.6	85.3	-3.5	0	-20.6	-12.2	-30.5	2.5	21	
146	Slip Road (EB) to Roundabout (South of KTN)	271	14.4	50	253.9	1.4	67.5	-1	0.2	-21.1	-12.8	-29.4	2.5	5.9	
149	Fanling Highway (EB)	4143	33.4	100	182.6	1.5	85.2	-3.5	0	-20.9	-11.4	-30.7	2.5	21.2	
152	Fanling Highway (WB)	4143	33.4	100	142.3	1	85.2	-3.5	0	-22.6	-10.3	-30	2.5	21.3	
220	Fanling Highway (WB)	3971	34.7	100	250.1	2.1	85.1	-3.5	0	-19.3	-12.8	-29.6	2.5	22.4	
222	Slip Road (WB) from Roundabout (South of KTN)	314	37.3	50	264.9	1.2	71.1	-1	0	-21.9	-13.1	-30.2	4	8.9	
224	Fanling Highway (WB)	4274	34.7	100	274	1.2	85.3	-3.5	0.3	-21.6	-13.1	-30.3	2.5	19.6	
225	Fanling Highway (WB)	4274	34.7	100	288.7	2.1	85.4	-3.5	0	-19.3	-13.4	-30.3	2.5	21.4	
226	Fanling Highway (WB)	4274	34.7	100	269	5.7	85.4	-3.5	0	-15	-13.1	-30.3	2.9	26.4	
227	Fanling Highway (WB)	4274	34.7	100	270	6.2	85.3	-3.5	0.2	-14.6	-13.1	-27.9	3.7	30.1	
228	Fanling Highway (WB)	4274	34.7	100	268.3	9.8	85.3	-3.5	0.2	-12.7	-13	-27.2	2.7	31.8	
229	Fanling Highway (WB)	4274	34.7	100	268.9	12.5	85.4	-3.5	0.1	-11.6	-13.1	-24.5	2.7	35.5	
230	Fanling Highway (WB)	4274	34.7	100	269	2.7	85.3	-3.5	0.1	-18.2	-13.1	-23.6	2.5	29.5	
231	Fanling Highway (WB)	4274	34.7	100	270.5	22.4	85.4	-3.5	0.1	-9.1	-13.1	-29	2.5	33.3	
232	Fanling Highway (WB)	4274	34.7	100	266.4	20.6	85.4	-3.5	0	-9.4	-13	-29.5	3	33	
233	Slip Road (WB) to Kwu Tung Rd	466	23.8	50	264.2	10.9	71.2	-1	0.8	-12.2	-13	-28.9	3.2	20.1	
234	Slip Road (WB) to Kwu Tung Rd	466	23.8	50	277.7	10	71.2	-1	1.1	-12.5	-13.2	-28.7	2.5	19.4	
236	Fanling Highway (WB)	4246	35.9	100	285.5	3	85.5	-3.5	0	-17.8	-13.3	-28.7	2.5	24.7	
237	Fanling Highway (WB)	4246	35.9	100	241.2	1.2	85.5	-3.5	0	-21.8	-12.6	-30	2.5	20.1	
238	Fanling Highway (WB)	4246	35.9	100	182.1	1.8	85.5	-3.5	0	-19.9	-11.4	-30.1	2.5	23.1	
244	Fanling Highway (WB)	3423	37.6	100	204.9	1.2	84.6	-3.5	0	-21.6	-11.9	-30.1	2.5	20	
270	Internal Road (EB) South of A1-2	247	25.1	50	41.4	1.2	68.8	-1	0	-21.9	-5.2	0	2.5	43.2	
271	Internal Road (EB) South of A1-2	247	25.1	50	30	1.5	68.8	-1	0	-20.9	-4	0	2.5	45.4	
274	Internal Road (EB) South of A1-2	247	25.1	50	19.2	142.1	68.8	-1	0	-1	-2.4	0	2.5	66.9	
275	Internal Road (WB) South of A1-2	356	37.9	50	22.8	136.4	71.7	-1	0.1	-1.2	-3	0	2.5	69.1	
278	Internal Road (WB) South of A1-2	356	37.9	50	33.1	1.6	71.7	-1	0	-20.6	-4.4	0	2.5	48.2	
280	Internal Road (SB) West of B2-5	19	15.8	50	39.4	38.8	56.3	-1	0	-6.7	-5	-0.1	2.5	46	
281	Internal Road (SB) West of B2-5	19	15.8	50	39.1	7.9	56.3	-1	0	-13.6	-5	-5.9	3.3	34.1	
282	Internal Road (NB) West of B2-5	90	18.9	50	35.8	7.4	63.3	-1	1	-13.9	-4.7	-11.2	3.1	36.6	
283	Internal Road (NB) West of B2-5	90	18.9	50	35.6	37.7	63.3	-1	1.1	-6.8	-4.6	-0.2	2.5	54.3	
284	Internal Road (EB) South of A1-4	203	28.6	50	19.2	18.1	68.4	-1	0	-10	-2.4	0	2.5	57.5	
285	Internal Road (EB) South of A1-4	203	28.6	50	19.2	4.2	68.4	-1	0	-16.3	-2.4	0	2.5	51.2	
286	Internal Road (EB) South of A1-4	203	28.6	50	18.9	1.5	68.4	-1	0	-20.7	-2.3	0	2.5	46.9	
287	Internal Road (WB) South of A1-4	258	42.2	50	23	1.8	70.6	-1	0.3	-20	-3	0	2.5	49.4	
288	Internal Road (WB) South of A1-4	258	42.2	50	22.4	4.8	70.6	-1	0.2	-15.7	-2.9	0	2.5	53.7	
289	Internal Road (WB) South of A1-4	258	42.2	50	23.1	20.6	70.6	-1	0.3	-9.4	-3	0	2.5	60	
411	Internal Road (EB) South of A1-9	290	28.6	50	268.6	1	69.9	-1	0	-22.4	-13.1	-1.6	2.5	34.3	
414	Internal Road (WB) South of A1-9	290	26.6	50	269.3	1.1	69.6	-1	0	-22.2	-13.1	-0.5	2.5	35.3	
444	Internal Road (NB) to Roundabout (West of KTN)	369	22.5	50	188.9	2.5	70.2	-1	0.3	-18.6	-11.5	-3.3	2.5	38.6	
445	Internal Road (NB) to Roundabout (West of KTN)	369	22.5	50	143.4	2.9	70.2	-1	0.3	-17.9	-10.4	-2.4	2.5	41.3	
446	Internal Road (SB) from Roundabout (West of KTN)	148	38.5	50	111.1	2.2	68	-1	0	-19.1	-9.3	-1.2	2.5	38.9	
447	Internal Road (SB) from Roundabout (West of KTN)	148	38.5	50	177.8	2.2	68	-1	0	-19	-11.3	-2.6	2.5	36.6	
452	Castle Peak Road (EB)	397	15.6	50	204.5	5.6	69.5	-1	0	-15.1	-11.9	-29.3	2.5	14.7	
453	Castle Peak Road (EB)	397	15.6	50	204.7	9.7	69.5	-1	0	-12.7	-11.9	-30.5	2.5	15.9	
454	Castle Peak Road (WB)	315	14.6	50	209.3	9.8	68.3	-1	0	-12.6	-12	-30.3	2.5	14.9	
455	Castle Peak Road (WB)	315	14.6	50	206	5.6	68.1	-1	1	-15.1	-11.9	-29.4	2.5	14.2	
456	Castle Peak Road (EB)	397	15.6	50	216.1	2.5	69.5	-1	0	-18.6	-12.1	-30.8	2.5	9.5	
459	Castle Peak Road (EB)	397	15.6	50	237	13.7	69.3	-1	0.9	-11.2	-12.5	-30.4	2.5	17.6	
460	Castle Peak Road (EB)	397	15.6	50	227.5	11.7	69.4	-1	0.6	-11.9	-12.3	-30.8	2.5	16.5	
461	Castle Peak Road (EB)	397	15.6	50	224.6	31.7	69.4	-1	0.2	-7.5	-12.3	-29.7	2.5	21.6	
462	Castle Peak Road (EB)	397	15.6	50	229.7	11.9	69.5	-1	0	-11.8	-12.4	-24.6	2.5	22.2	
463	Castle Peak Road (EB)	397	15.6	50	229.7	15.4	69.5	-1	0	-10.7	-12.4	-27.3	2.5	20.6	
464	Castle Peak Road (EB)	397	15.6	50	230.1	10.2	69.4	-1	0.2	-12.5	-12.4	-29.5	2.5	16.7	
465	Castle Peak Road (EB)	460	25.2	50	229.5	3.1	71.5	-1	0	-17.6	-12.4	-30.3	2.5	12.7	
466	Castle Peak Road (EB)	460	25.2	50	229.2	2.7	71.5	-1	0	-18.3	-12.4	-30.5	2.5	11.8	
469	Castle Peak Road (WB)	429	22.4	50	233.7	2.7	70.7	-1	0.4	-18.2	-12.4	-30.5	2.5	11.5	
470	Castle Peak Road (WB)	429	22.4	50	233.6	3.2	70.7	-1	0.4	-17.5	-12.4	-30.3	2.5	12.4	
471	Castle Peak Road (WB)	315	14.6	50	233.7	10.2	68.3	-1	0	-12.4	-12.5	-29.6	2.5	15.3	
472	Castle Peak Road (WB)	315	14.6	50	233.5	15.4	68.3	-1	0.1	-10.7	-12.4	-27	2.5	19.8	
473	Castle Peak Road (WB)	315	14.6	50	233.2	11.7	68.2	-1	0.3	-11.9	-12.4	-23.6	2.5	22.1	
474	Castle Peak Road (WB)	315	14.6	50	228.1	31.3	68.3	-1	0	-7.6	-12.4	-29.7	2.5	20.1	
475	Castle Peak Road (WB)	315	14.6	50	230.9	11.6	68.3	-1	0	-11.9	-12.4	-30.8	2.5	14.7	
476	Castle Peak Road (WB)	315	14.6	50	240.5	13.4	68.3	-1	0	-11.3	-12.6	-30.4	2.5	15.5	
479	Castle Peak Road (WB)	315	14.6	50	219.4	2.3	68.3	-1	0	-18.9	-1				

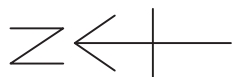
Project Number	25278 Agreement No. CE61/2007 North East New Development Areas Planning and Engineering Study														
Title	Sample Calculations for Road Traffic Noise Assessment														
Calculation of Road Traffic Noise															
UK Department of Transport 2000															
NSR ID:	R2501			Total, dB(A)		72.1									
Elevation (m PD):	23.5														
Floor Level:	1 /F														
								Corrections, dB(A)							
Segment Number	Segment Name		Flow Rate (Veh/hr)	HV%	Speed (Km/hr)	Distance (m)	Angle of View (degree)	Basic Noise Level, dB(A)	Surface	Gradient	Angle View	Distance Attenuation	Barrier	Reflection	Segment Total, dB(A)
1530	Slip Road (NB) to KTN (from FLH)		751	14.2	50	259.4	2.7	71.9	-1	0.8	-18.3	-12.9	-28.6	2.5	14.4
1531	Slip Road (NB) to KTN (from FLH)		751	14.2	50	222.3	3.7	71.9	-1	0.5	-16.9	-12.2	-8.3	2.5	36.5
1532	Slip Road (SB) to FLH (from KTN)		450	21.3	50	251.4	2.9	70.9	-1	0	-17.9	-12.8	-29	2.5	12.7
1533	Slip Road (SB) to FLH (from KTN)		450	21.3	50	181.1	1.7	70.9	-1	0	-20.2	-11.4	-30.8	2.5	10
1535	Slip Road (SB) to FLH (from KTN)		450	21.3	50	184.8	1.2	70.7	-1	0.6	-21.7	-11.4	-30.8	2.5	8.9
1537	Slip Road (SB) to FLH (from KTN)		450	21.3	50	212.5	2.2	70.8	-1	0.4	-19.1	-12	-30.3	2.5	11.3
1540	Slip Road (SB) to FLH (from KTN)		450	21.3	50	102.6	1.3	70.8	-1	0.3	-21.6	-9	-30.7	2.5	11.3
1541	Slip Road (SB) to FLH (from KTN)		450	21.3	50	236.6	2	70.8	-1	0.5	-19.5	-12.5	-29.3	2.5	11.5
1542	Slip Road (SB) to FLH (from KTN)		450	21.3	50	254.8	2.9	70.8	-1	0.4	-17.9	-12.8	-28.7	2.5	13.3
1543	Slip Road (SB) to FLH (from KTN)		450	21.3	50	155.3	1.3	70.8	-1	0.4	-21.6	-10.7	-31.2	2.5	9.2
1544	Slip Road (SB) to FLH (from KTN)		450	21.3	50	269.2	4	70.8	-1	0.3	-16.5	-13.1	-28.5	2.5	14.5
1545	Slip Road (SB) to FLH (from KTN)		450	21.3	50	272.2	4.4	70.9	-1	0	-16.1	-13.1	-28.2	2.5	15
1546	Slip Road (WB) to FLH (from KTN)		944	25.2	50	245.1	7.2	74.6	-1	0	-14	-12.7	-6.3	2.5	43.1
1547	Slip Road (WB) to FLH (from KTN)		944	25.2	50	254.1	5.5	74.6	-1	0	-15.1	-12.8	-28.8	2.5	19.4
9637	Internal Road (WB) South of A1-2		356	37.9	50	23.9	4.7	71.7	-1	0.2	-15.9	-3.2	0	2.5	54.3
9675	Internal Road (EB) South of A1-2		247	25.1	50	21.9	4.4	68.8	-1	0	-16.1	-2.8	0	2.5	51.4
9676	Fanling Highway (EB)		4410	32.2	100	241.3	32.8	85.3	-3.5	0	-7.4	-12.6	-23.5	2.5	40.8
9677	Fanling Highway (WB)		4274	34.7	100	271	30.5	85.4	-3.5	0.1	-7.7	-13.1	-20.8	2.5	42.9



Project Number 25278 Agreement No. CE61/2007 North East New Development Areas Planning and Engineering Study																
Title Sample Calculations for Road Traffic Noise Assessment																
Calculation of Road Traffic Noise																
UK Department of Transport 2000																
NSR ID: R2742		Total, dB(A)		73.2												
Elevation (m PD): 19.5																
Floor Level: 1 / F																
				Corrections, dB(A)												
Segment Number	Segment Name	Flow Rate (Veh/hr)	HV%	Speed (Km/hr)	Distance (m)	Angle of View (degree)	Basic Noise Level, dB(A)	Surface	Gradient	Angle View	Distance Attenuation	Barrier	Reflection	Segment Total, dB(A)		
336	Internal Road (EB) South of A3-3	333	17.1	50	170.1	4.3	68.9	-1	0	-16.2	-11.1	-2.7	2.5	40.4		
337	Internal Road (EB) South of A3-3	333	17.1	50	99.2	2.8	68.9	-1	0	-18.1	-8.8	0	2.5	43.5		
338	Internal Road (EB) South of A3-3	224	21	50	26.3	1.7	67.8	-1	0	-20.3	-3.7	0	4	46.8		
339	Internal Road (WB) South of A3-3	333	19.5	50	29.7	1.9	69.2	-1	0.3	-19.8	-4.1	0	4	48.6		
340	Internal Road (WB) South of A3-3	333	19.5	50	102.1	3	69.2	-1	0.5	-17.8	-9	0	2.5	44.4		
341	Internal Road (WB) South of A3-3	333	19.5	50	173	5.1	69.2	-1	0.2	-15.5	-11.2	-2.3	3.3	42.7		
348	Internal Road (NB) West of A3-6	375	14.7	50	185.7	8.2	68.8	-1	1	-13.4	-11.5	-1.2	2.5	45.2		
357	Internal Road (SB) West of A3-6	231	24.2	50	182	8.3	68.3	-1	0	-13.4	-11.4	-1.2	2.5	43.8		
358	Internal Road (NB) West of A2-13	199	21.6	50	150.7	15.4	67.4	-1	0	-10.7	-10.6	-29.9	2.5	17.7		
359	Internal Road (NB) West of A2-13	199	21.6	50	150.6	12.8	67.4	-1	0	-11.5	-10.6	-28.5	2.5	18.3		
360	Internal Road (NB) West of A2-13	199	21.6	50	150.5	10.2	67.4	-1	0	-12.5	-10.6	-29.4	2.5	16.4		
361	Internal Road (NB) West of A2-13	199	21.6	50	150.7	7.1	67.4	-1	0	-14	-10.6	-6	2.5	38.3		
362	Internal Road (NB) West of A2-13	199	21.6	50	152.2	6.8	67.4	-1	0	-14.2	-10.6	-9.4	2.5	34.7		
363	Internal Road (NB) West of A2-13	199	21.6	50	187.4	2.2	67.3	-1	0.3	-19.1	-11.5	-29.3	4	10.7		
457	Internal Road (NB) West of A2-13	199	21.6	50	187.3	8.1	67.3	-1	0.3	-13.5	-11.5	-29.8	2.5	14.3		
364	Internal Road (NB) West of A2-13	199	21.6	50	185.3	11	67.3	-1	0.3	-12.1	-11.5	-2.7	2.5	42.8		
365	Internal Road (NB) West of A2-13	199	21.6	50	184.6	5	67.3	-1	0.5	-15.6	-11.4	0	2.5	42.3		
366	Internal Road (NB) West of A2-13	199	21.6	50	186	5.7	67.3	-1	0.3	-15	-11.5	0	2.5	42.6		
367	Internal Road (SB) West of A2-13	203	13.8	50	181.7	5.9	66.3	-1	0	-14.9	-11.4	0	2.5	41.5		
368	Internal Road (SB) West of A2-13	203	13.8	50	181.4	5	66.3	-1	0	-15.6	-11.4	0	2.5	40.8		
369	Internal Road (SB) West of A2-13	203	13.8	50	182	11.2	66.3	-1	0	-12.1	-11.4	-2.9	2.5	41.4		
370	Internal Road (SB) West of A2-13	203	13.8	50	181.9	8.2	66.3	-1	0	-13.4	-11.4	-30.2	2.5	12.8		
458	Internal Road (SB) West of A2-13	203	13.8	50	184.4	1.5	66.3	-1	0	-20.8	-11.4	-29.8	2.5	5.8		
371	Internal Road (SB) West of A2-13	203	13.8	50	148.3	6.3	66.2	-1	0.2	-14.6	-10.5	-19.6	2.5	23.2		
372	Internal Road (SB) West of A2-13	203	13.8	50	145.9	7.1	66.2	-1	0.2	-14	-10.4	-4.5	2.5	39		
373	Internal Road (SB) West of A2-13	203	13.8	50	146.8	10.3	66.2	-1	0.2	-12.4	-10.5	-29.8	2.5	15.2		
374	Internal Road (SB) West of A2-13	203	13.8	50	146.8	13.1	66.2	-1	0.2	-11.4	-10.5	-28.7	2.5	17.3		
375	Internal Road (SB) West of A2-13	203	13.8	50	146.9	15.7	66.2	-1	0.1	-10.6	-10.5	-30.4	2.5	16.3		
377	Internal Road (EB) South of A3-6	526	20.2	50	25.1	6.5	71.4	-1	0.1	-14.4	-3.4	0	2.5	55.2		
378	Internal Road (EB) South of A3-6	526	20.2	50	23.9	20.2	71.3	-1	0.3	-9.5	-3.2	0	2.5	60.4		
379	Internal Road (WB) South of A3-6	674	14.5	50	30.9	20.5	71.6	-1	0	-9.4	-4.2	0	2.5	59.5		
380	Internal Road (WB) South of A3-6	674	14.5	50	28.5	7.3	71.6	-1	0	-13.9	-3.9	0	2.5	55.3		
383	Internal Road (NB) West of D1-7	1133	29.9	50	124.5	4.7	75.8	-1	0.4	-15.9	-9.8	-0.9	2.5	51.1		
384	Internal Road (NB) West of D1-7	1133	29.9	50	126.7	6	75.8	-1	0.6	-14.8	-9.8	0	2.5	53.3		
385	Internal Road (NB) West of D1-7	1133	29.9	50	119.1	6.4	75.9	-1	0	-14.5	-9.6	0	2.5	53.3		
386	Internal Road (NB) West of D1-7	1133	29.9	50	77	11.4	75.8	-1	0.5	-12	-7.8	0	2.5	58		
387	Internal Road (SB) West of D1-7	952	36.7	50	91.1	11.2	75.9	-1	0	-12.1	-8.5	0	2.5	56.8		
388	Internal Road (SB) West of D1-7	952	36.7	50	131	6.8	75.9	-1	0	-14.2	-10	0	2.5	53.2		
389	Internal Road (SB) West of D1-7	952	36.7	50	130.5	6	75.9	-1	0	-14.8	-10	0	2.5	52.6		
390	Internal Road (SB) West of D1-7	952	36.7	50	131.1	4.8	75.9	-1	0	-15.8	-10	0	2.5	51.6		
424	Internal Road (NB) South of A1-9	219	14.2	50	182.4	2.6	66.6	-1	0	-18.4	-11.4	-31.3	2.5	7		
425	Internal Road (SB) South of A1-9	219	22.4	50	179.4	2.6	67.9	-1	0	-18.4	-11.3	-31.4	2.5	8.3		
1136	Internal Road (NB) South of B3-5	22	18.2	50	187.1	1.1	57.3	-1	0	-22	-11.5	-31.1	2.5	-5.8		
426	Internal Road (NB) South of B3-5	22	18.2	50	185.6	1.8	57.3	-1	0	-20	-11.5	-30.5	2.5	-3.2		
427	Internal Road (SB) South of B3-5	15	13.3	50	182.8	1.8	54.8	-1	0.2	-20.1	-11.4	-30.5	2.5	-5.5		
1138	Internal Road (SB) South of B3-5	15	13.3	50	183.1	1.1	54.8	-1	0.3	-22.1	-11.4	-31.1	2.5	-8		
428	Internal Road (NB) West of B2-12	125	36.8	50	167.6	1.6	67.1	-1	0	-20.4	-11	-30.7	2.6	6.6		
429	Internal Road (NB) West of B2-12	125	36.8	50	169.4	1.9	67.1	-1	0	-19.7	-11.1	-30.5	2.5	7.3		
430	Internal Road (SB) West of B2-12	142	44.4	50	164	1.9	68.2	-1	0.1	-19.8	-10.9	-30.5	2.5	8.6		
431	Internal Road (SB) West of B2-12	142	44.4	50	166	1.6	68.2	-1	0.1	-20.5	-11	-30.8	2.5	7.5		
708	Internal Road (EB) connecting Ho Sheung Heung Road	36	47.2	50	39.2	4.7	62.4	-1	0.9	-15.9	-5.1	0	3.4	44.7		
709	Internal Road (EB) connecting Ho Sheung Heung Road	36	47.2	50	41.3	3.5	62.4	-1	0.7	-17.1	-5.3	0	3.4	43.1		
710	Internal Road (EB) connecting Ho Sheung Heung Road	36	47.2	50	38.3	1.6	62.4	-1	0.9	-20.5	-5.1	0	3.1	39.8		
711	Internal Road (WB) connecting Ho Sheung Heung Road	240	27.9	50	36	1.5	69	-1	0	-20.7	-4.8	0	3.7	46.2		
712	Internal Road (WB) connecting Ho Sheung Heung Road	240	27.9	50	31	2.7	69	-1	0	-18.2	-4.2	0	3	48.6		
713	Internal Road (WB) connecting Ho Sheung Heung Road	240	27.9	50	31.7	3.8	69	-1	0	-16.8	-4.4	0	2.5	49.3		
728	Internal Road (EB) West of D1-4	475	15.2	50	215.9	1.5	70.2	-1	0	-20.9	-12.1	-8	2.5	30.7		
729	Internal Road (EB) West of D1-4	475	15.2	50	218.8	1.9	70.2	-1	0	-19.9	-12.2	-13.9	2.5	25.7		
734	Internal Road (WB) West of D1-4	342	23.4	50	217.8	1.8	69.9	-1	0.3	-19.9	-12.2	-15.2	2.5	24.4		
735	Internal Road (WB) West of D1-4	342	23.4	50	221.7	1.6	69.9	-1	0	-20.6	-12.2	-9.6	2.5	29		
740	Ho Sheung Heung Road (NB)	22	13.6	50	271.2	5	56.5	-1	0.2	-15.5	-13.1	-1	2.9	29		
741	Ho Sheung Heung Road (NB)	22	13.6	50	267.3	4.8	56.4	-1	0.5	-15.8	-13	-7	2.5	22.6		
742	Ho Sheung Heung Road (NB)	22	13.6	50	270.9	1.7	56.4	-1	0.5	-20.2	-13.1	-30.4	2.5	-5.3		
773	Ho Sheung Heung Road (SB)	19	57.9	50	274.3	1.6	60.5	-1	0	-20.5	-13.1	-30.3	2.5	-1.9		
774	Ho Sheung Heung Road (SB)	19	57.9	50	270.3	4.6	60.5	-1	0	-15.9	-13.1	-8.1	2.5	24.9		
775	Ho Sheung Heung Road (SB)	19	57.9	50	273.8	5.2	60.5	-1	0	-15.4	-13.1	-1.2	2.9	32.7		
781	Ho Sheung Heung Pai Fung Road (NB)	14	100	50	242.8	1.2	61.3	-1	0	-21.9	-12.6	-27.2	2.5	1.1		
782	Ho Sheung Heung Pai Fung Road (NB)	14	100	50	190.4	1.3	61.3	-1	0	-21.4	-11.6	-29.4	2.5	0.4		
793	Ho Sheung Heung Pai Fung Road (NB)	14	100	50	240.6	1.8	61.2	-1	0.4	-19.9	-12.6	-9.4	2.5	21.2		
796	Ho Sheung Heung Pai Fung Road (NB)	14	100	50	223.3	3.1	61.1	-1	1.2	-17.7	-12.3	-2.6	2.5	31.2		
800	Ho Sheung Heung Pai Fung Road (NB)	14	100	50	283.8	6.5	61.3	-1	0.2	-14.4	-13.3	-30.3	2.5	5		
801	Ho Sheung Heung Pai Fung Road (NB)	14	100	50	282.2	8.8	61.3	-1	0.2	-13.1	-13.3	-30.4	2.5	6.2		
802	Ho Sheung Heung Pai Fung Road (NB)	14	100	50	278	7.8	61.2	-1	0.3	-13.6	-13.2	-3.8	2.5	32.4		
803	Ho Sheung Heung Pai Fung Road (SB)	111	25.2	50	283	7.8	65.4	-1	0	-13.6	-13.3	-3.9	2.5	36.1		
804	Ho Sheung Heung Pai Fung Road (SB)	111	25.2	50	285.5	8.8	65.4	-1	0	-13.1	-13.3	-30.5	2.6	10.1		
805	Ho Sheung Heung Pai Fung Road (SB)	111	25.2	50	287.8	6.5	65.4	-1	0	-14.4	-13.3	-30.3	2.5	8.9		
809	Ho Sheung Heung Pai Fung Road (SB)	111	25.2	50	227.7	3	65.4	-1	0							

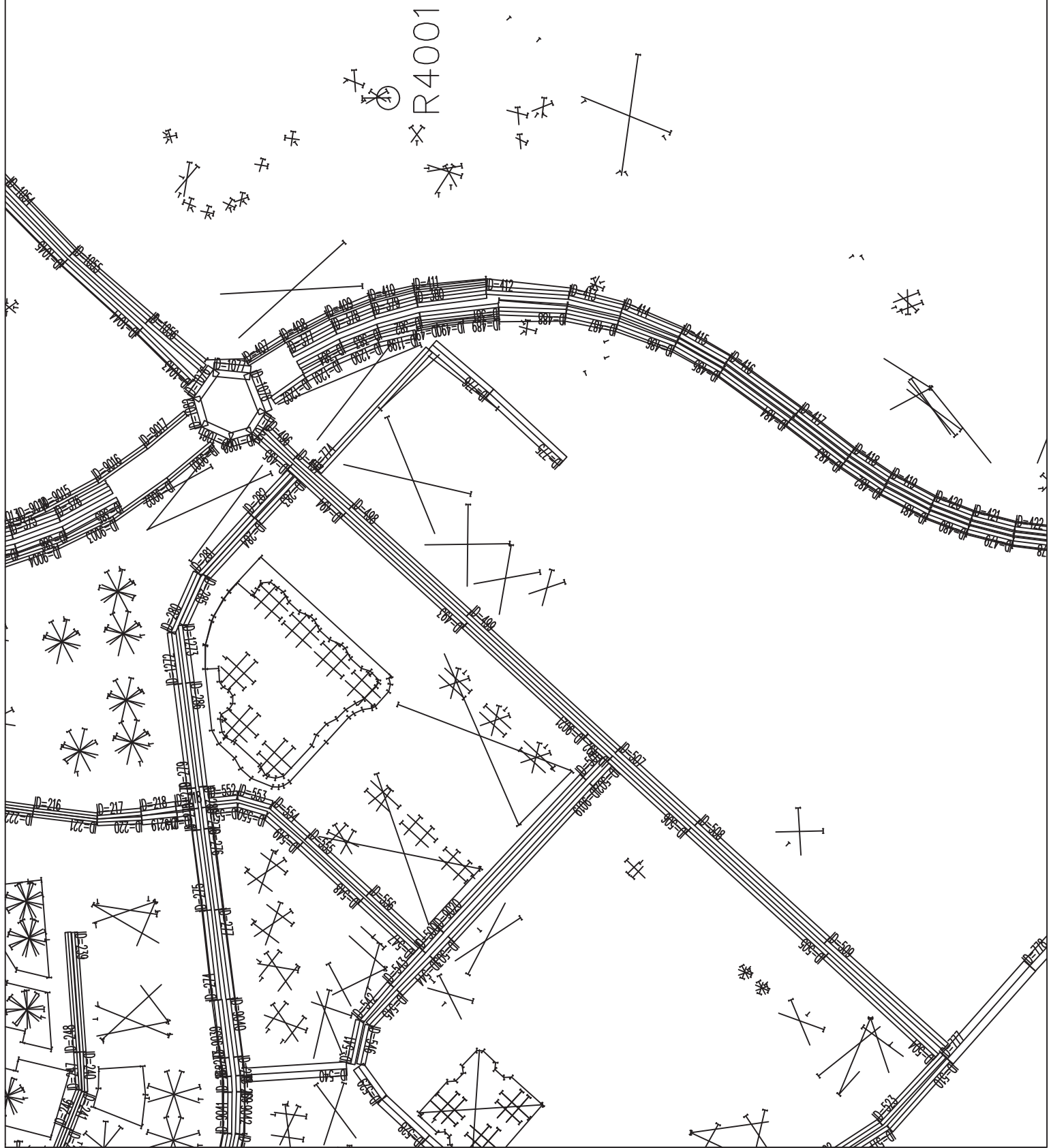


Project Number		25278 Agreement No. CE61/2007 North East New Development Areas Planning and Engineering Study												
Title		Sample Calculations for Road Traffic Noise Assessment												
Calculation of Road Traffic Noise														
UK Department of Transport 2000														
NSR ID:		R2604		Total, dB(A)		72.9								
Elevation (m PD):		11.5												
Floor Level:		1 /F												
		Corrections, dB(A)												
Segment Number	Segment Name	Flow Rate (Veh/hr)	HV%	Speed (Km/hr)	Distance (m)	Angle of View (degree)	Basic Noise Level, dB(A)	Surface	Gradient	Angle View	Distance Attenuation	Barrier	Reflection	Segment Total, dB(A)
143	Fanling Highway (EB)	4410	32.2	100	272.1	5.2	85.3	-3.5	0	-15.4	-13.1	-27.4	2.5	28.4
144	Fanling Highway (EB)	4410	32.2	100	273.3	39.2	85.3	-3.5	0	-6.6	-13.1	-28.2	2.5	36.4
145	Fanling Highway (EB)	4410	32.2	100	273.8	23.8	85.3	-3.5	0	-8.8	-13.1	-12.7	2.5	49.7
146	Slip Road (EB) to Roundabout (South of KTN)	271	14.4	50	276.9	18.4	67.5	-1	0.2	-9.9	-13.2	-12.5	2.5	33.6
147	Slip Road (EB) to Roundabout (South of KTN)	271	14.4	50	251.9	15.8	67.3	-1	1.4	-10.6	-12.8	-14.1	2.6	32.8
148	Slip Road (EB) to Roundabout (South of KTN)	271	14.4	50	271.8	2	67.5	-1	0.5	-19.6	-13.1	-29.5	2.5	7.3
149	Fanling Highway (EB)	4143	33.4	100	273.4	24.2	85.2	-3.5	0	-8.7	-13.1	-6.9	2.5	55.5
150	Fanling Highway (EB)	4143	33.4	100	263.1	12.4	85.1	-3.5	0.3	-11.6	-13	-30.1	2.5	29.7
151	Fanling Highway (EB)	4143	33.4	100	262.3	7.5	85.2	-3.5	0.1	-13.8	-12.9	-30.9	2.5	26.7
152	Fanling Highway (EB)	4143	33.4	100	264.2	7.5	85.2	-3.5	0	-13.8	-13	-30.5	2.5	26.9
155	Slip Road (EB) from Roundabout (South of KTN)	1057	18.9	50	252.8	5	74.2	-1	0	-15.6	-12.8	-30.5	2.5	16.8
156	Slip Road (EB) from Roundabout (South of KTN)	1057	18.9	50	277.7	2.5	74.2	-1	0	-18.7	-13.2	-30.2	2.5	13.6
216	Slip Road (WB) to Roundabout (South of KTN)	1492	31.8	50	275.5	3.5	77.1	-1	1.2	-17.1	-13.2	-30.6	2.5	18.9
217	Slip Road (WB) to Roundabout (South of KTN)	1492	31.8	50	291.9	1.8	77.2	-1	0.7	-20.1	-13.4	-30	2.5	15.9
218	Fanling Highway (WB)	3971	34.7	100	274.4	3.2	85	-3.5	0.5	-17.5	-13.1	-30.7	2.5	23.2
219	Fanling Highway (WB)	3971	34.7	100	289.1	8.8	85.1	-3.5	0	-13.1	-13.4	-30.6	2.5	27
395	Internal Road (NB) from Roundabout (South of KTN)	1733	32.3	50	227.7	13.5	78.1	-1	0	-11.3	-12.3	-30	2.5	26
396	Internal Road (NB) from Roundabout (South of KTN)	1733	32.3	50	228.1	10.9	78.1	-1	0	-12.2	-12.3	-29.4	2.5	25.7
397	Internal Road (NB) from Roundabout (South of KTN)	1733	32.3	50	226	3.8	78.1	-1	0	-16.8	-12.3	0	2.5	50.5
398	Internal Road (NB) to Roundabout (South of KTN)	1442	39.6	50	240	3.8	77.9	-1	0.4	-16.8	-12.6	0	2.5	50.4
399	Internal Road (NB) to Roundabout (South of KTN)	1442	39.6	50	238.5	10.8	77.8	-1	0.5	-12.2	-12.5	-29	2.5	26.1
400	Internal Road (NB) to Roundabout (South of KTN)	1442	39.6	50	238.2	13.6	77.9	-1	0.3	-11.2	-12.5	-29.8	2.5	26.2
412	Internal Road (EB) South of A1-9	290	28.6	50	25	33.2	69.9	-1	0	-7.3	-3.3	0	2.5	60.8
413	Internal Road (WB) South of A1-9	290	26.6	50	28.5	35.6	69.6	-1	0	-7	-3.8	0	2.5	60.3
414	Internal Road (WB) South of A1-9	290	26.6	50	41.9	2.7	69.6	-1	0	-18.3	-5.3	0	2.5	47.5
416	Internal Road (EB) South of A1-9	473	23.7	50	20.8	85.8	71.4	-1	0	-3.2	-2.6	0	2.5	67.1
417	Internal Road (EB) South of A1-9	473	23.7	50	22.5	40	71.4	-1	0	-6.5	-2.9	0	2.5	63.5
418	Internal Road (EB) South of A1-9	473	23.7	50	33	11	71.4	-1	0	-12.1	-4.3	0	2.5	56.5
421	Internal Road (WB) South of A1-9	468	18.8	50	34.3	11.1	70.7	-1	0	-12.1	-4.5	0	2.5	55.6
422	Internal Road (WB) South of A1-9	468	18.8	50	26.1	40.8	70.7	-1	0	-6.4	-3.5	0	2.5	62.3
423	Internal Road (WB) South of A1-9	468	18.8	50	24.4	77.6	70.7	-1	0	-3.7	-3.2	0	2.6	65.4
424	Internal Road (NB) South of A1-9	219	14.2	50	29.4	27	66.6	-1	0	-8.2	-3.9	0	2.5	56
425	Internal Road (SB) South of A1-9	219	22.4	50	25.6	30.1	67.9	-1	0	-7.8	-3.4	0	2.5	58.2
1137	Internal Road (NB) South of B3-5	22	18.2	50	81.8	13	57.3	-1	0	-11.4	-8	0	2.5	39.4
1136	Internal Road (NB) South of B3-5	22	18.2	50	29.6	6.4	57.3	-1	0	-14.5	-3.9	0	2.5	40.4
426	Internal Road (NB) South of B3-5	22	18.2	50	29.4	31.7	57.3	-1	0	-7.5	-3.9	0	2.5	47.4
427	Internal Road (SB) South of B3-5	15	13.3	50	25.9	30	54.8	-1	0.2	-7.8	-3.4	0	2.5	45.3
1138	Internal Road (SB) South of B3-5	15	13.3	50	25.9	5.7	54.8	-1	0.3	-15	-3.4	0	2.5	38.2
1139	Internal Road (SB) South of B3-5	15	13.3	50	78.4	12.5	54.9	-1	0	-11.6	-7.8	0	2.5	37
466	Castle Peak Road (EB)	460	25.2	50	259.4	7.6	71.5	-1	0	-13.7	-12.9	-27.7	2.5	18.7
467	Castle Peak Road (EB)	460	25.2	50	258.6	5.2	71.5	-1	0	-15.4	-12.9	-29.3	2.5	15.4
468	Castle Peak Road (WB)	429	22.4	50	263	5.2	70.7	-1	0.4	-15.4	-13	-29.2	2.5	15
469	Castle Peak Road (WB)	429	22.4	50	262.6	8	70.7	-1	0.4	-13.5	-12.9	-27.6	2.5	18.6
480	Castle Peak Road (EB)	460	25.2	50	259.1	5.9	71.4	-1	0.2	-14.8	-12.9	-30.3	2.5	15.1
481	Castle Peak Road (EB)	460	25.2	50	259.6	17.4	71.5	-1	0	-10.1	-12.9	-28.3	2.5	21.7
482	Castle Peak Road (EB)	460	25.2	50	259.9	20.1	71.4	-1	0.1	-9.5	-12.9	-26.2	2.5	24.4
483	Castle Peak Road (EB)	460	25.2	50	259.6	13.8	71.4	-1	0.1	-11.1	-12.9	-5.4	2.5	43.6
484	Castle Peak Road (EB)	460	25.2	50	261.8	13	71.4	-1	0.1	-11.4	-12.9	-4.7	2.5	44
485	Castle Peak Road (EB)	460	25.2	50	248.4	8.5	71.5	-1	0	-13.3	-12.7	-9.2	2.5	37.8
486	Castle Peak Road (WB)	429	22.4	50	252.2	8.4	70.8	-1	0	-13.3	-12.8	-8.9	2.5	37.3
487	Castle Peak Road (WB)	429	22.4	50	265.5	12.9	70.8	-1	0	-11.5	-13	-4.4	2.5	43.4
488	Castle Peak Road (WB)	429	22.4	50	263.3	13.7	70.8	-1	0	-11.2	-13	-5.5	2.5	42.6
489	Castle Peak Road (WB)	429	22.4	50	263.6	19.8	70.8	-1	0	-9.6	-13	-26.1	2.5	23.6
490	Castle Peak Road (WB)	429	22.4	50	263.4	17.3	70.8	-1	0	-10.2	-13	-28	2.5	21.1
491	Castle Peak Road (WB)	429	22.4	50	262.4	5.9	70.8	-1	0	-14.8	-12.9	-30.2	2.5	14.4
492	Kwu Tung Road (NB) Elevated Rd	278	43.9	50	209.5	2.4	70.9	-1	0.9	-18.8	-12	-29	2.5	13.5
495	Kwu Tung Road (NB) Elevated Rd	278	43.9	50	140.4	2.9	71	-1	0.7	-18	-10.3	-30.2	2.5	14.7
496	Kwu Tung Road (NB) Elevated Rd	278	43.9	50	233.8	5.3	71	-1	0.7	-15.3	-12.4	-1.2	2.5	44.3
497	Kwu Tung Road (NB) Elevated Rd	278	43.9	50	258	7.2	71	-1	0.6	-14	-12.9	0	2.5	46.2
498	Kwu Tung Road (NB) Elevated Rd	278	43.9	50	232.6	6.3	71	-1	0.7	-14.5	-12.4	0	2.5	46.3
499	Kwu Tung Road (NB) Elevated Rd	278	43.9	50	193.7	11.3	71	-1	0.6	-12	-11.6	-5.7	2.5	43.8
500	Kwu Tung Road (NB) Elevated Rd	278	43.9	50	195.1	4.2	71.1	-1	0	-16.3	-11.7	-22.7	2.5	21.9
501	Kwu Tung Road (NB) Elevated Rd	278	43.9	50	192.9	2.4	71.1	-1	0	-18.8	-11.7	-23.6	2.5	18.5
502	Kwu Tung Road (NB) Elevated Rd	278	43.9	50	286.1	2.8	71.1	-1	0	-18.1	-13.3	-22.4	2.5	18.1
503	Kwu Tung Road (SB) Elevated Rd	165	35.8	50	286.7	2.7	68	-1	1.1	-18.2	-13.3	-22.3	2.5	16.8
504	Kwu Tung Road (SB) Elevated Rd	165	35.8	50	188.9	2.3	67.9	-1	1.7	-18.9	-11.6	-23.8	2.5	16.8
505	Kwu Tung Road (SB) Elevated Rd	165	35.8	50	190.6	4.1	68	-1	1.2	-16.4	-11.6	-22.9	2.5	19.8
506	Kwu Tung Road (SB) Elevated Rd	165	35.8	50	190.1	11.2	68.2	-1	0	-12.1	-11.6	-7	2.5	39
507	Kwu Tung Road (SB) Elevated Rd	165	35.8	50	228	6.7	68.2	-1	0	-14.3	-12.3	0	2.5	43.1
508	Kwu Tung Road (SB) Elevated Rd	165	35.8	50	254.3	7.5	68.2	-1	0	-13.8	-12.8	0	2.5	43.1
509	Kwu Tung Road (SB) Elevated Rd	165	35.8	50	230.9	5.8	68.2	-1	0	-14.9	-12.4	-1.6	2.5	40.8
510	Kwu Tung Road (SB) Elevated Rd	165	35.8	50	137.6	3.1	68.2	-1	0	-17.6	-10.2	-30.3	2.5	11.6
512	Kwu Tung Road (SB) Elevated Rd	165	35.8	50	131.8	1.1	68.2	-1	0	-22.1	-10	-30.5	2.5	7.1
513	Kwu Tung Road (SB) Elevated Rd	165	35.8	50	208.3	2.4	68.2	-1	0	-18.8	-12	-29.4	2.5	9.5
514	Castle Peak Road (EB)	515	28.5	50	239.4	7.2	72.3	-1	0.1	-14	-12.6	-30	2.5	17.3
515	Castle Peak Road (EB)	515	28.5	50	238.6	5.4	72.3	-1	0.1	-15.3	-12.5	-31.1	2.5	15
516	Castle Peak Road (EB)	515	28.5	50	236.4	5.2	72.3	-1</						

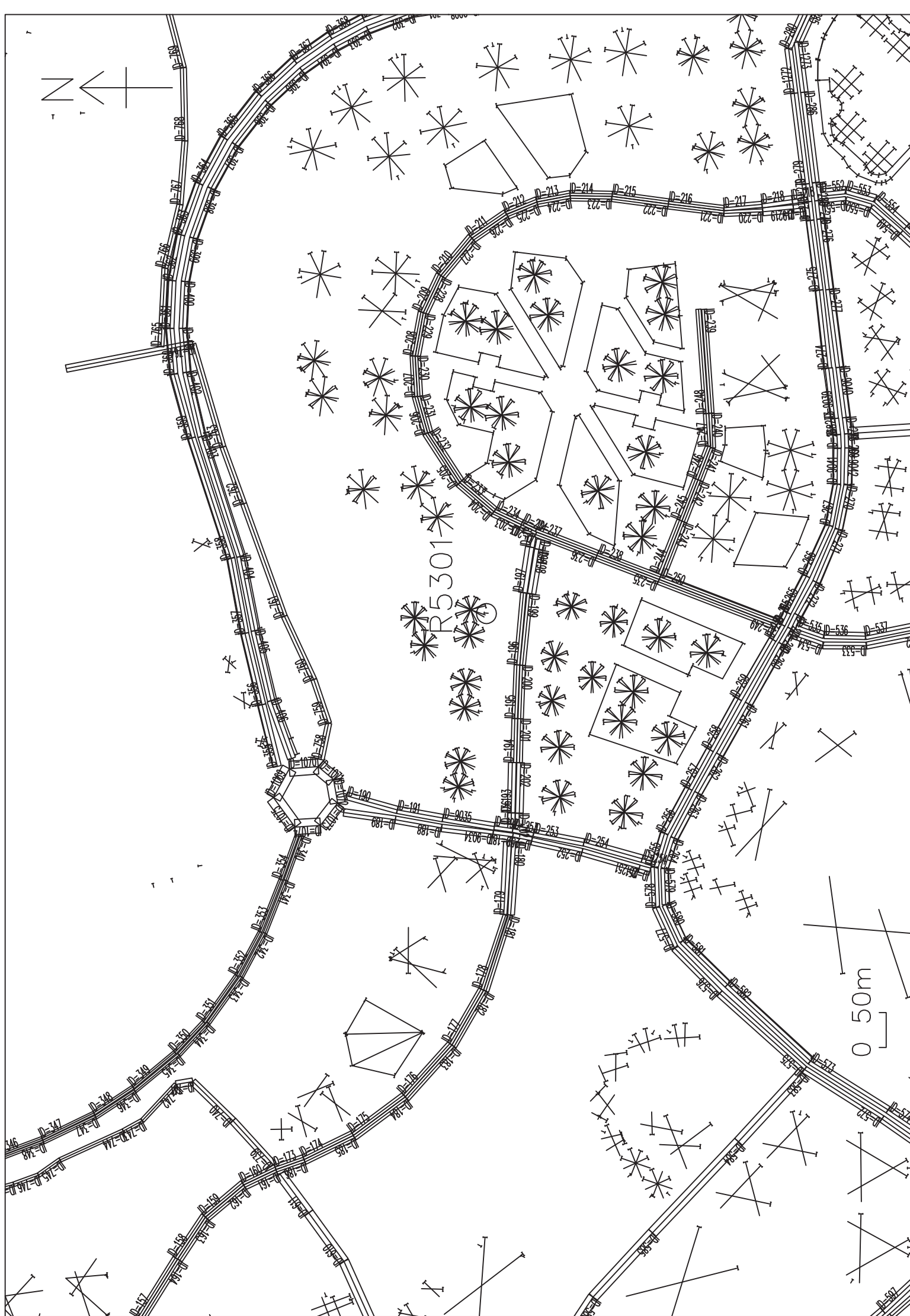


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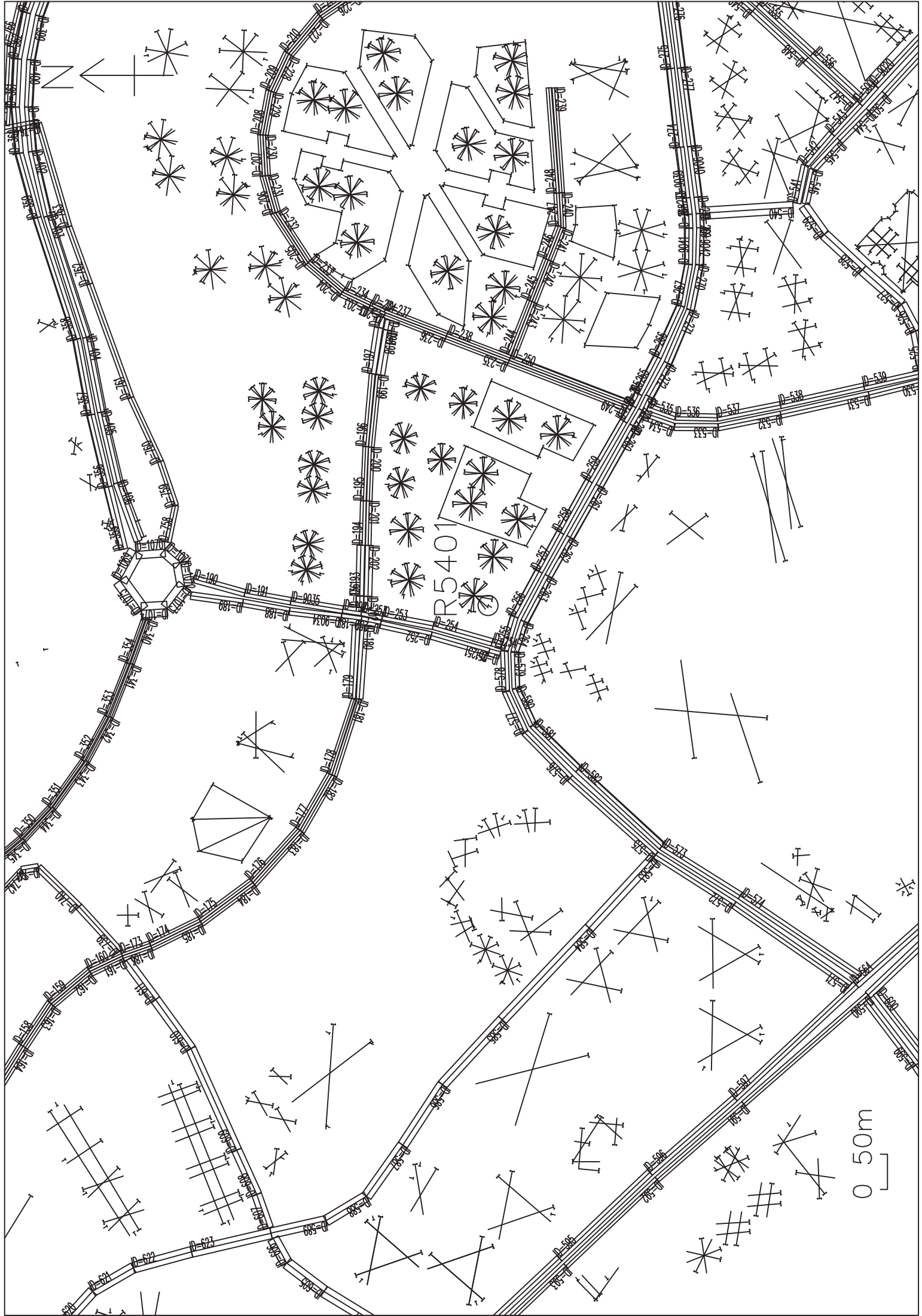
R4001



Project Number		25278 Agreement No. CE61/2007 North East New Development Areas Planning and Engineering Study													
Title		Sample Calculations for Road Traffic Noise Assessment													
Calculation of Road Traffic Noise															
UK Department of Transport 2000															
NSR ID:		R4001		Total, dB(A)		61.5									
Elevation (m PD):				11.5											
Floor Level:				1 / F											
						Corrections, dB(A)									
Segment Number	Segment Name	Flow Rate (Veh/hr)	HV%	Speed (Km/hr)	Distance (m)	Angle of View (degree)	Basic Noise Level, dB(A)	Surface	Gradient	Angle View	Distance Attenuation	Barrier	Reflection	Segment Total, dB(A)	
274	External Road (EB) South of E-10	144	41	50	233	1.8	68.1	-1	0	-19.9	-12.4	-30.9	2.5	6.4	
275	External Road (EB) South of E-10	144	41	50	246	2.1	68.1	-1	0	-19.3	-12.7	-31	2.5	6.6	
276	External Road (WB) South of E-10	249	30.9	50	233	2	69.5	-1	0.1	-19.4	-12.4	-31.1	2.5	8.2	
277	External Road (WB) South of E-10	249	30.9	50	235	1.9	69.5	-1	0.1	-19.8	-12.5	-31	2.5	7.8	
279	External Road (EB) South of D-15	285	34	50	243	3.8	70.3	-1	0	-16.7	-12.6	-30.7	2.5	11.8	
281	External Road (EB) South of D-15	285	34	50	150	3.6	70.3	-1	0	-17	-10.6	-30.5	2.5	13.7	
282	External Road (EB) South of D-15	285	34	50	155	3.6	70.3	-1	0	-17	-10.7	-30.3	2.5	13.8	
283	External Road (WB) South of D-15	193	20.7	50	164	3.7	67.2	-1	0	-16.9	-10.9	-30.2	2.5	10.7	
284	External Road (WB) South of D-15	193	20.7	50	161	3.7	67.2	-1	0	-16.9	-10.8	-30.5	2.5	10.5	
286	External Road (WB) South of D-15	193	20.7	50	232	3.7	67.2	-1	0	-16.9	-12.4	-30.5	2.5	8.9	
369	External Road (EB) North of D-2 (Before Underpass)	906	24.5	80	186	1	76.4	-3.5	0	-22.5	-11.5	-11.5	2.5	29.9	
370	External Road (EB) North of D-2 (Before Underpass)	906	24.5	80	273	1.3	76.4	-3.5	0	-21.3	-13.1	-11	2.5	30	
374	External Road (EB) North of D-2 (Before Underpass)	678	25.1	80	295	3	75.1	-3.5	0	-17.8	-13.5	-9.1	3.3	34.5	
375	External Road (EB) North of D-2 (Before Underpass)	678	25.1	80	238	2.6	75.1	-3.5	0	-18.4	-12.6	-22.9	4	21.7	
376	External Road (EB) North of D-2 (Before Underpass)	678	25.1	80	180	2.8	75.1	-3.5	0	-18.1	-11.4	-24.9	4	21.2	
377	External Road (EB) North of D-2 (After Underpass)	678	25.1	80	152	7.9	74.8	-3.5	1.1	-13.6	-10.6	-28.6	3.4	23	
378	External Road (EB) North of D-2 (After Underpass)	678	25.1	80	166	9.2	74.8	-3.5	1.3	-12.9	-11	-18.3	4	34.4	
379	External Road (EB) North of D-2 (After Underpass)	678	25.1	80	174	11.8	74.8	-3.5	1.2	-11.8	-11.2	-12.2	4	41.3	
380	External Road (EB) North of D-2 (After Underpass)	678	25.1	80	175	18.7	74.9	-3.5	0.8	-9.8	-11.2	-7.3	2.5	46.4	
381	External Road (WB) North of D-2 (Before Underpass)	724	21.1	80	187	19.7	75	-3.5	0	-9.6	-11.5	-6.4	2.5	46.5	
382	External Road (WB) North of D-2 (Before Underpass)	724	21.1	80	186	11	75	-3.5	0	-12.2	-11.5	-9.9	4	41.9	
383	External Road (WB) North of D-2 (Before Underpass)	724	21.1	80	178	8.5	75	-3.5	0	-13.3	-11.3	-14.1	4	36.8	
384	External Road (WB) North of D-2 (Before Underpass)	724	21.1	80	164	7.6	75	-3.5	0	-13.8	-10.9	-27.4	3.8	23.2	
385	External Road (WB) North of D-2 (After Underpass)	724	21.1	80	192	3	74.7	-3.5	1.1	-17.7	-11.6	-24.4	4	22.6	
386	External Road (WB) North of D-2 (After Underpass)	724	21.1	80	250	2.7	74.6	-3.5	1.3	-18.2	-12.7	-22.5	4	23	
391	External Road (WB) North of D-2 (After Underpass)	944	20.8	80	286	1.3	75.9	-3.5	0.5	-21.3	-13.3	-9.2	2.5	31.6	
392	External Road (WB) North of D-2 (After Underpass)	944	20.8	80	196	1	76	-3.5	0.3	-22.5	-11.7	-11.3	2.5	29.8	
407	Slip Road (SB) to Fanling Bypass	693	32.9	80	128	4.7	76	0.1	0	-15.8	-9.9	-26.8	2.5	26.1	
408	Slip Road (SB) to Fanling Bypass	693	32.9	80	142	8	76	0.1	0	-13.5	-10.3	-27.4	2.5	27.4	
409	Slip Road (SB) to Fanling Bypass	693	32.9	80	156	10.3	76	0.1	0	-12.4	-10.7	-8.3	2.5	47.2	
410	Slip Road (SB) to Fanling Bypass	693	32.9	80	164	12.8	76	0.1	0	-11.5	-10.9	-2.7	2.5	53.5	
411	Slip Road (SB) to Fanling Bypass	693	32.9	80	165	20.5	76	0.1	0	-9.4	-11	-2.9	2.5	55.4	
412	Fanling Bypass (SB)	1353	28	80	157	5.6	78.3	-3.5	0.5	-10.6	-10.7	-16.9	2.5	39.6	
413	Fanling Bypass (SB)	1353	28	80	124	5.6	78.2	-3.5	0.8	-15.1	-9.8	-18.5	2.5	34.5	
414	Fanling Bypass (SB)	1353	28	80	86	3.2	78.2	-3.5	0.7	-17.5	-8.2	-15.1	3.2	37.8	
415	Fanling Bypass (SB)	1353	28	80	48	1.2	78.2	-3.5	0.8	-21.9	-5.8	-4.6	3.6	46.8	
421	Fanling Bypass (SB)	1353	28	80	220	1.2	78.2	-3.5	0.6	-21.8	-12.2	-6	4	39.3	
429	Fanling Bypass (NB)	950	21.5	80	233	1.3	76.2	-3.5	0	-21.4	-12.4	-6.9	2.5	34.5	
431	Fanling Bypass (NB)	950	21.5	80	59	1.3	76.2	-3.5	0	-21.3	-6.7	-21.4	4	27.3	
435	Fanling Bypass (NB)	950	21.5	80	111	3.8	76.2	-3.5	0	-16.7	-9.3	-19.3	2.5	29.9	
437	Fanling Bypass (NB)	950	21.5	80	145	5.8	76.2	-3.5	0	-14.9	-10.4	-17.8	2.5	32.1	
488	Fanling Bypass (NB)	950	21.5	80	177	12.2	76.2	-3.5	0	-11.7	-11.3	-16.8	2.8	35.7	
489	Slip Road (NB) from Fanling Bypass	237	26.2	80	196	8.2	70.7	-3.5	0	-13.4	-11.7	-5.3	2.5	38.3	
490	Slip Road (NB) from Fanling Bypass	237	26.2	80	198	6.5	70.7	-3.5	0	-14.4	-11.7	-5.1	2.5	38.5	
491	Slip Road (NB) from Fanling Bypass	237	26.2	80	199	5.1	70.7	-3.5	0	-15.5	-11.8	-5.1	2.6	37.4	
492	Sha Tau Kok Road (NB)	1511	42.4	50	293	1.4	78.4	-1	0	-21.2	-13.4	-29.2	2.5	16.1	
493	Sha Tau Kok Road (NB)	1511	42.4	50	292	14.5	78.4	-1	0	-10.9	-13.4	-30.5	2.5	25.1	
494	Sha Tau Kok Road (NB)	1511	42.4	50	291	8.8	78.4	-1	0	-13.1	-13.4	-30.1	2.5	23.3	
495	Sha Tau Kok Road (NB)	1511	42.4	50	294	6.3	78.4	-1	0	-14.6	-13.4	-26.1	2.5	25.8	
496	Sha Tau Kok Road (SB)	1003	43.1	50	277	6	76.7	-1	0	-14.8	-13.2	-27.9	2.5	22.3	
497	Sha Tau Kok Road (SB)	1003	43.1	50	284	9.4	76.7	-1	0	-12.8	-13.3	-30.2	2.5	21.9	
498	Sha Tau Kok Road (SB)	1003	43.1	50	281	14.1	76.6	-1	0	-11	-13.2	-30.6	2.5	23.3	
499	Sha Tau Kok Road (SB)	1003	43.1	50	280	10.6	76.6	-1	0.1	-12.3	-13.2	-30.1	2.5	22.6	
504	Sha Tau Kok Road (NB)	879	38.2	50	287	2.7	75.6	-1	0	-18.2	-13.3	-18.9	2.9	27.1	
505	Sha Tau Kok Road (NB)	879	38.2	50	292	4.8	75.6	-1	0	-15.8	-13.4	-4.7	2.5	43.2	
506	Sha Tau Kok Road (NB)	879	38.2	50	290	3.7	75.6	-1	0	-16.8	-13.4	-6.2	2.5	40.7	
507	Sha Tau Kok Road (SB)	825	45.2	50	281	3.7	76	-1	0.1	-16.8	-13.2	-4.7	2.5	42.9	
508	Sha Tau Kok Road (SB)	825	45.2	50	281	4.4	76	-1	0	-16.1	-13.2	-5.5	2.5	42.7	
509	Sha Tau Kok Road (SB)	825	45.2	50	286	2.9	76	-1	0	-17.9	-13.3	-20.1	2.5	26.2	
774	External Road (SB) South of D-22	1425	27.4	50	169	19.9	65.6	-1	0	-9.6	-11.1	-14	3.3	33.2	
775	On Kui Street (2-way) 428+429	1425	27.4	50	123	6.8	70	-1	0	-14.2	-9.7	-3.6	2.6	44.1	
776	On Kui Street (2-way) 428+429	1425	27.4	50	133	8.9	70	-1	0	-13.1	-10	-3.7	4	46.2	
1043	Sha Tau Kok Road (NB)	1425	27.4	50	292	12.2	77.4	-1	0	-11.7	-13.4	-6.7	2.5	47.1	
1044	Sha Tau Kok Road (NB)	1425	27.4	50	291	14.9	77.4	-1	0	-10.8	-13.4	-4.5	2.5	50.2	
1055	Sha Tau Kok Road (SB)	1425	27.4	50	280	14.6	76.9	-1	0.2	-10.9	-13.2	-3.7	2.5	50.8	
1056	Sha Tau Kok Road (SB)	1425	27.4	50	279	12.8	77	-1	0	-11.5	-13.2	-5.8	2.5	48	
1077	Roundabout (East of FLN)	1425	27.4	50	243	6.1	78.4	-1	0	-14.7	-12.6	-23.5	2.5	29.1	
1078	Roundabout (East of FLN)	1425	27.4	50	194	5.4	78.4	-1	0	-15.3	-11.6	-23.5	2.5	29.5	
1080	Roundabout (East of FLN)	1425	27.4	50	241	2.6	78.4	-1	0	-18.3	-12.6	-22	2.5	27	
1082	Roundabout (East of FLN)	1425	27.4	50	230	3.5	78.4	-1	0	-17.2	-12.4	-22.8	2.5	27.5	
1199	Slip Road from Fanling Bypass (NB)	1425	27.4	50	201	9	70.6	0.1	0.1	-13	-11.8	-5.2	4	44.8	
1200	Slip Road from Fanling Bypass (NB)	1425	27.4	50	187	8.9	70.6	0.1	0.1	-13.1	-11.5	-7	4	43.2	
1201	Slip Road from Fanling Bypass (NB)	1425	27.4	50	172	5.4	70.6	0.1	0.2	-15.2	-11.1	-24.5	4	24.1	
1202	Slip Road from Fanling Bypass (NB)	1425	27.4	50	153	4.4	70.6	0.1	0.1	-16.2	-10.6	-24.9	3.6	22.7	
1272	External Road (EB) South of D-15	1425	27.4	50	243	2.4	70.3	-1	0	-18.8	-12.6	-30.3	2.5	10.1	
1273	External Road (WB) South of D-15	1425	27.4	50	234	2.6	67.2	-1	0	-18.4	-12.5	-30.3	2.5	7.5	
9001	Fanling Bypass Slip Road (WB)	1425	27.4	50	130	2.9	68.5	-1	0	-17.9	-9.9	-25.3	4	18.4	
9002	Fanling Bypass Slip Road (WB)	1425	27.4	50	157	3.2	68.5	-1	0	-17.5	-10.8	-24.2	3.1	18.1	
9003	Fanling Bypass Slip Road (WB)	1425	27.4	50	221	3.3	68.5	-1	0	-17.4	-12.2	-22.1	2.5	18.3	
9004	Fanling Bypass Slip Road (WB)	1425	27.4	50	274	3.4	68.5	-1	0	-17.3	-13.1	-21.1	2.5	18.5	
9012	Fanling Bypass Slip Road (EB)	1425	27.4	50	297	3.1	69.2	-1	0	-17.6	-13.5	-5.6	2.5	34	
9013	Fanling Bypass Slip Road (EB)	1425	27.4	50	275	1.8	69.2	-1	0	-20.1	-13.1	-5.5	2.5	32	
9014	Fanling Bypass Slip Road (EB)	1425	27.4	50											



Project Number		25278 Agreement No. CE61/2007 North East New Development Areas Planning and Engineering Study												
Title		Sample Calculations for Road Traffic Noise Assessment												
Calculation of Road Traffic Noise														
UK Department of Transport 2000														
NSR ID:		R5301		Total, dB(A)		72.5								
Elevation (m PD):		14.7												
Floor Level:		1 / F												
Corrections, dB(A)														
Segment Number	Segment Name	Flow Rate (Veh/hr)	HV%	Speed (Km/hr)	Distance (m)	Angle of View (degree)	Basic Noise Level, dB(A)	Surface	Gradient	Angle View	Distance Attenuation	Barrier	Reflection	Segment Total, dB(A)
177	Internal Road (EB) South of C-19	308	24	50	182	1.7	69.6	-1	0	-20.1	-11.4	-27.1	2.5	12.5
178	Internal Road (EB) South of C-19	308	24	50	111	4.4	69.6	-1	0	-16.1	-9.3	-4.6	2.5	41.1
179	Internal Road (EB) South of C-19	308	24	50	29	2	69.6	-1	0	-19.6	-3.8	0	2.5	47.7
180	Internal Road (WB) South of C-19	375	19.2	50	42	2.7	69.8	-1	0	-18.2	-5.3	0	2.5	47.8
181	Internal Road (WB) South of C-19	375	19.2	50	113	4.6	69.8	-1	0	-15.9	-9.3	-2.8	2.5	43.3
182	Internal Road (WB) South of C-19	375	19.2	50	187	2.5	69.8	-1	0	-18.6	-11.5	-26.8	2.5	14.4
193	Internal Road (EB) South of E-8	781	24.5	50	26	2.8	73.7	-1	0	-18.1	-3.4	0	2.5	53.7
194	Internal Road (EB) South of E-8	781	24.5	50	29	4.8	73.7	-1	0	-15.8	-3.8	0	2.5	55.6
195	Internal Road (EB) South of E-8	781	24.5	50	30	15.6	73.7	-1	0	-10.6	-4	0	2.5	60.6
196	Internal Road (EB) South of E-8	781	24.5	50	33	88	73.7	-1	0	-3.1	-4.3	0	2.5	67.8
197	Internal Road (WB) South of E-8	781	24.5	50	29	27.2	73.7	-1	0	-8.2	-3.8	0	2.5	63.2
198	Internal Road (WB) South of E-8	646	16.9	50	38	27.2	71.8	-1	0	-8.2	-4.9	0	2.5	60.2
199	Internal Road (WB) South of E-8	646	16.9	50	39	79.1	71.8	-1	0	-3.6	-5	0	2.5	64.7
200	Internal Road (WB) South of E-8	646	16.9	50	36	16.9	71.8	-1	0	-10.3	-4.7	0	2.6	58.4
201	Internal Road (WB) South of E-8	646	16.9	50	34	5.5	71.8	-1	0	-15.2	-4.5	0	2.5	53.6
202	Internal Road (WB) South of E-8	646	16.9	50	35	3.6	71.8	-1	0	-17	-4.5	0	2.5	51.8
203	Internal Road (EB) South of D-11	429	23.1	50	90	18.1	70.9	-1	0	-10	-8.4	0	3	54.5
204	Internal Road (EB) South of D-11	429	23.1	50	77	1.1	70.9	-1	0.1	-22.3	-7.8	0	4	43.9
233	Internal Road (WB) South of D-11	624	17.8	50	82	2.6	71.8	-1	0	-18.4	-8	0	4	48.4
234	Internal Road (WB) South of D-11	624	17.8	50	95	16.6	71.8	-1	0	-10.4	-8.6	0	2.9	54.7
235	Internal Road (NB) West of E-6	105	17.1	50	89	16.4	63.9	-1	0	-10.4	-8.4	-0.9	2.5	45.7
236	Internal Road (NB) West of E-6	105	17.1	50	89	31.1	63.9	-1	0	-7.6	-8.4	0	3	49.9
237	Internal Road (SB) West of E-6	450	24.2	50	94	30.8	71.2	-1	0	-7.7	-8.6	0	3	57.1
238	Internal Road (SB) West of E-6	450	24.2	50	94	16.6	71.2	-1	0.2	-10.4	-8.6	-0.4	2.6	53.6
239	Internal Road (WB) South of E-6	271	18.5	50	237	12.8	68.2	-1	0	-11.5	-12.5	-30.4	2.5	15.3
240	Internal Road (WB) South of E-6	271	18.5	50	232	5.5	68.2	-1	0	-15.1	-12.4	-19.5	3	23.2
241	Internal Road (WB) South of E-6	271	18.5	50	150	4.3	68.2	-1	0	-16.2	-10.6	-30.1	4	14.3
242	Internal Road (WB) South of E-6	271	18.5	50	149	7	68.2	-1	0	-14.1	-10.5	-30.2	2.5	14.9
243	Internal Road (WB) South of E-6	271	18.5	50	150	12.7	68.2	-1	0	-11.5	-10.5	-2.2	2.5	45.5
244	Internal Road (EB) South of E-6	141	20.6	50	144	12.8	65.8	-1	0	-11.5	-10.4	-2.2	2.5	43.2
245	Internal Road (EB) South of E-6	141	20.6	50	145	7	65.8	-1	0	-14.1	-10.4	-30.2	2.5	12.6
246	Internal Road (EB) South of E-6	141	20.6	50	145	4.3	65.8	-1	0	-16.2	-10.4	-30.2	4	12
247	Internal Road (EB) South of E-6	141	20.6	50	231	5.2	65.8	-1	0	-15.4	-12.4	-20.4	2.7	19.3
248	Internal Road (EB) South of E-6	141	20.6	50	232	12.8	65.8	-1	0	-11.5	-12.4	-30.4	2.5	13
249	Internal Road (NB) West of E-8	58	19	50	89	13.1	61.6	-1	0	-11.4	-8.4	-30.2	2.5	13.1
250	Internal Road (SB) West of E-8	649	22.7	50	94	13.5	72.6	-1	0.3	-11.3	-8.6	-30.1	2.5	24.4
251	Internal Road (NB) West of D-18	546	25.1	50	200	9.1	72.3	-1	0	-13	-11.8	-30.2	2.5	18.8
252	Internal Road (NB) West of D-18	546	25.1	50	210	10.5	72.3	-1	0	-12.3	-12	-3	2.5	46.5
253	Internal Road (SB) West of D-18	344	15.7	50	204	10.9	68.7	-1	1	-12.2	-11.9	-3.9	2.5	43.2
254	Internal Road (SB) West of D-18	344	15.7	50	191	9.3	68.8	-1	0.7	-12.9	-11.6	-30.3	2.5	16.2
255	External Road (EB) South of D-18	246	31.3	50	231	5.5	69.5	-1	0	-15.2	-12.4	-31	2.5	12.4
256	External Road (EB) South of D-18	246	31.3	50	259	10.1	69.5	-1	0	-12.5	-12.9	-30.8	2.5	14.8
257	External Road (EB) South of D-18	246	31.3	50	259	9.5	69.5	-1	0	-12.8	-12.9	-31.3	2.5	14
258	External Road (EB) South of D-18	246	31.3	50	259	12.6	69.5	-1	0	-11.5	-12.9	-8.9	2.5	37.7
259	External Road (EB) South of D-18	246	31.3	50	258	13.5	69.5	-1	0	-11.2	-12.9	-10.7	2.5	36.2
260	External Road (WB) South of D-18	416	19.7	50	271	13.1	70.3	-1	0.1	-11.4	-13.1	-10.8	2.5	36.6
261	External Road (WB) South of D-18	416	19.7	50	270	12.2	70.3	-1	0.2	-11.7	-13.1	-10.4	2.5	36.8
262	External Road (WB) South of D-18	416	19.7	50	270	9.1	70.3	-1	0.1	-13	-13.1	-31.2	2.5	14.6
263	External Road (WB) South of D-18	416	19.7	50	269	9.8	70.3	-1	0.2	-12.7	-13	-30.8	2.5	15.5
264	External Road (WB) South of D-18	416	19.7	50	245	5	70.3	-1	0.2	-15.6	-12.6	-30.8	3	13.5
265	External Road (EB) South of E-8	472	26.5	50	264	6.5	71.7	-1	0.1	-14.4	-13	-30.2	2.5	15.7
266	External Road (EB) South of E-8	472	26.5	50	273	7.7	71.7	-1	0.1	-17.7	-13.1	-30.1	2.5	16.4
271	External Road (WB) South of E-8	394	30.7	50	289	8	71.5	-1	0	-13.5	-13.4	-30.2	2.5	15.9
272	External Road (WB) South of E-8	394	30.7	50	271	5.7	71.5	-1	0	-15	-13.1	-30.2	2.5	14.7
281	External Road (EB) South of D-15	285	34	50	169	1.3	70.3	-1	0	-21.5	-11.1	-31	3.8	9.5
284	External Road (WB) South of D-15	193	20.7	50	168	1.2	67.2	-1	0	-21.7	-11	-30.9	2.5	5.1
512	Fan Leng Lau Road (NB)	627	67.3	50	220	1	76.3	-1	0	-22.4	-12.2	-31	2.5	12.2
520	Fan Leng Lau Road (SB)	826	58.5	50	160	1	76.9	-1	0.3	-22.4	-10.8	-30.9	2.5	14.6
530	Fan Leng Lau Road (NB)	81	18.5	50	125	1.4	63	-1	0	-18.2	-9.8	-30.7	3.6	3.9
531	Fan Leng Lau Road (NB)	81	18.5	50	112	2.5	63	-1	0	-18.5	-9.3	-30.3	2.7	6.6
532	Fan Leng Lau Road (NB)	465	43.2	50	104	2.3	63	-1	0	-19	-9	-30.4	2.5	6.1
534	Fan Leng Lau Road (NB)	465	43.2	50	77	1.5	63	-1	0.4	-20.9	-7.8	-30.5	2.5	5.7
535	Fan Leng Lau Road (SB)	465	43.2	50	88	1.4	72	-1	0	-21	-8.3	-30.6	2.5	13.6
537	Fan Leng Lau Road (SB)	465	43.2	50	93	2.1	71.9	-1	0.1	-19.3	-8.5	-30.5	2.5	15.2
538	Fan Leng Lau Road (SB)	465	43.2	50	103	2.2	71.9	-1	0.1	-19.1	-9	-30.3	2.5	15.1
539	Fan Leng Lau Road (SB)	1453	33	50	104	1.2	71.9	-1	0.1	-21.7	-9	-31.3	2.5	11.5
540	Luen Chit Street (2-way) 363+364	525	34.1	50	151	3.9	73	-1	0.2	-16.6	-10.6	-30.9	2.5	16.6
542	Wo Muk Road (EB)	1425	27.4	50	203	1.7	75.4	-1	0.1	-20.3	-11.9	-31	2.5	13.8
543	Wo Muk Road (EB)	1425	27.4	50	184	1.3	75.4	-1	0.2	-21.3	-11.4	-31.4	2.5	13
544	Wo Muk Road (WB)	1425	27.4	50	179	1.3	72	-1	0	-21.5	-11.3	-31.1	2.5	9.6
545	Wo Muk Road (WB)	1425	27.4	50	192	1.5	72	-1	0	-20.9	-11.6	-30.7	2.5	10.3
571	Ma Sik Road (NB)	1425	27.4	50	186	3	74.9	-1	0	-17.7	-11.5	-30.2	2.5	17
572	Ma Sik Road (NB)	1425	27.4	50	211	3.2	74.9	-1	0	-17.6	-12	-30.5	2.5	16.3
573	Ma Sik Road (SB)	1425	27.4	50	204	3.1	73.7	-1	0.2	-17.7	-11.9	-30.4	2.5	15.4
574	Ma Sik Road (SB)	1425	27.4	50	184	3.1	73.7	-1	0	-17.7	-11.4	-30.2	2.5	15.9
575	Ma Sik Road (NB)	1425	27.4	50	124	3.4	73.4	-1	0.2	-17.3	-9.8	-30.4	2.5	17.6
576	Ma Sik Road (NB)	1425	27.4	50	98	2.2	73.4	-1	0.2	-19.2	-8.8	-30.3	2.5	16.8
578	Ma Sik Road (NB)	1425	27.4	50	156	3.6	73.4	-1	0.5	-17	-10.7	-30.6	2.5	17.1
579	Ma Sik Road (SB)	1425	27.4	50	166	3.3	71.8	-1	0	-17.4	-11	-30.7	2.5	14.2
581	Ma Sik Road (SB)	1425	27.4	50	94	2.1	71.8	-1	0	-19.4	-8.6	-30.4	2.5	14.9
582	Ma Sik Road (SB)	1425	27.4	50	10									

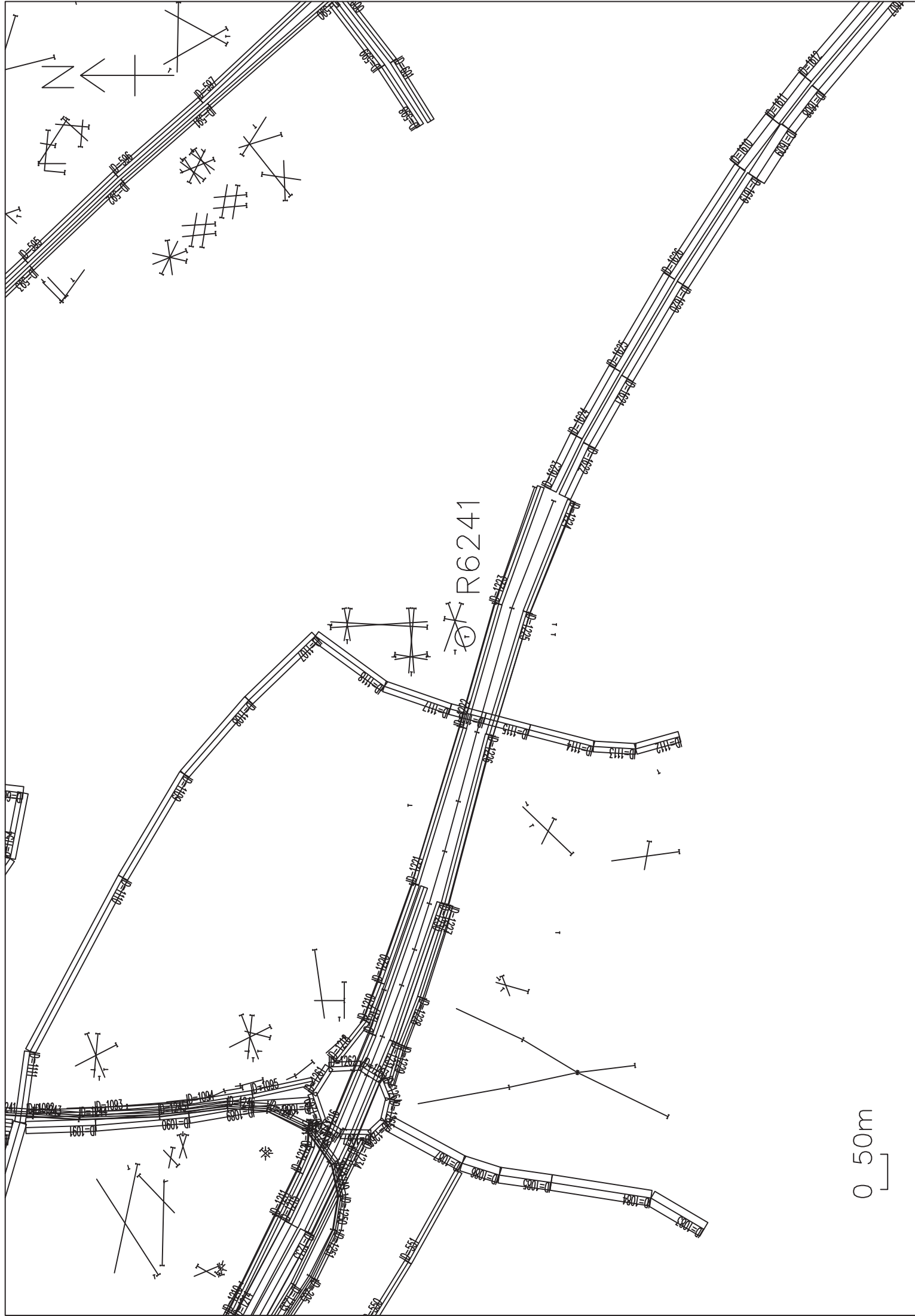


R5401

Project Number		25278 Agreement No. CE61/2007 North East New Development Areas Planning and Engineering Study														
Title		Sample Calculations for Road Traffic Noise Assessment														
Calculation of Road Traffic Noise		UK Department of Transport 2000														
NSR ID:		R5401			Total, dB(A)		71.7									
Elevation (m PD):		18.2														
Floor Level:		1 / F														
												Corrections, dB(A)				
Segment Number		Segment Name		Flow Rate (Veh/hr)	HV%	Speed (Km/hr)	Distance (m)	Angle of View (degree)	Basic Noise Level, dB(A)	Surface	Gradient	Angle View	Distance Attenuation	Barrier	Reflection	Segment Total, dB(A)
249		Internal Road (NB) West of E-8	58	19	50	230	8.2	61.6	-1	0	-13.4	-12.4	-3.4	2.5	33.9	
250		Internal Road (SB) West of E-8	649	22.7	50	235	8	72.6	-1	0.3	-13.5	-12.5	-3.5	2.5	44.9	
251		Internal Road (NB) West of D-18	546	25.1	50	40	25.1	72.3	-1	0	-8.5	-5.1	0	2.5	60.2	
251		Internal Road (NB) West of D-18	546	25.1	50	41	12.5	72.3	-1	0	-11.6	-5.2	0	2.5	57	
254		Internal Road (SB) West of D-18	344	15.7	50	30	29.9	68.8	-1	0.7	-7.8	-4	0	2.5	59.2	
254		Internal Road (SB) West of D-18	344	15.7	50	30	13.1	68.7	-1	0.9	-11.4	-4	0	2.5	55.7	
255		External Road (EB) South of D-18	246	31.3	50	23	49.5	69.5	-1	0	-5.6	-3	-0.5	2.5	61.9	
256		External Road (EB) South of D-18	246	31.3	50	23	57.9	69.5	-1	0	-4.9	-3	-0.5	2.5	62.6	
257		External Road (EB) South of D-18	246	31.3	50	22	10.9	69.5	-1	0	-12.2	-2.9	-0.5	2.5	55.4	
258		External Road (EB) South of D-18	246	31.3	50	22	5.3	69.5	-1	0	-15.3	-2.8	-0.5	2.5	52.4	
259		External Road (EB) South of D-18	246	31.3	50	19	2.5	69.5	-1	0	-18.6	-2.3	-0.4	2.5	49.7	
260		External Road (WB) South of D-18	416	19.7	50	33	3.9	70.3	-1	0.1	-16.6	-4.4	-0.2	2.5	50.7	
261		External Road (WB) South of D-18	416	19.7	50	32	13.3	70.3	-1	0.2	-14.1	-4.2	-0.2	2.5	53.5	
262		External Road (WB) South of D-18	416	19.7	50	32	7	70.3	-1	0.1	-11.3	-4.3	-0.3	2.5	56	
263		External Road (WB) South of D-18	416	19.7	50	34	51	70.3	-1	0.2	-5.5	-4.4	-0.3	2.5	61.8	
264		External Road (WB) South of D-18	416	19.7	50	33	38.1	70.3	-1	0.2	-6.7	-4.4	-0.3	2.5	60.6	
265		External Road (EB) South of E-8	472	26.5	50	30	1	71.7	-1	0.1	-22.4	-4	-0.3	4	48.1	
266		External Road (EB) South of E-8	472	26.5	50	46	1.5	71.7	-1	0.1	-20.8	-5.6	-1	2.5	45.9	
267		External Road (EB) South of E-8	472	26.5	50	128	2.3	71.7	-1	0.1	-19	-9.9	-3.5	2.5	40.9	
270		External Road (WB) South of E-8	394	30.7	50	134	2.5	71.5	-1	0	-18.5	-10.1	-1.8	2.5	42.6	
271		External Road (WB) South of E-8	394	30.7	50	64	2.1	71.5	-1	0	-19.3	-7	-0.4	2.5	46.3	
272		External Road (WB) South of E-8	394	30.7	50	34	1.1	71.5	-1	0	-22.3	-4.5	-0.2	4	47.5	
278		External Road (WB) South of E-10	249	30.9	50	251	1.2	69.4	-1	0.4	-21.8	-12.7	-31.3	2.5	5.5	
515		Fan Leng Lau Road (NB)	627	67.3	50	119	1.4	76.3	-1	0.1	-21	-9.6	-24.6	2.5	22.9	
516		Fan Leng Lau Road (NB)	627	67.3	50	130	1.7	76.2	-1	0.2	-20.2	-10	-24	2.5	23.7	
517		Fan Leng Lau Road (SB)	826	58.5	50	127	1.7	77	-1	0	-20.4	-9.9	-24.1	2.5	24.1	
518		Fan Leng Lau Road (SB)	826	58.5	50	128	1.4	77	-1	0	-21.1	-9.9	-23.7	2.5	23.8	
530		Fan Leng Lau Road (NB)	81	18.5	50	110	1.8	63	-1	0	-20	-9.2	-25.9	2.5	9.4	
531		Fan Leng Lau Road (NB)	81	18.5	50	120	4.2	63	-1	0	-16.3	-9.6	-3.7	2.5	34.9	
532		Fan Leng Lau Road (NB)	465	43.2	50	126	4.7	63	-1	0	-15.8	-9.8	-1.7	2.5	37.2	
533		Fan Leng Lau Road (NB)	465	43.2	50	176	6.1	63	-1	0	-14.7	-11.2	-4.8	2.5	33.8	
534		Fan Leng Lau Road (NB)	465	43.2	50	225	6.9	63	-1	0.4	-14.1	-12.3	-2.6	2.5	35.9	
535		Fan Leng Lau Road (SB)	465	43.2	50	236	5.9	72	-1	0	-14.8	-12.5	-2.5	2.5	43.7	
536		Fan Leng Lau Road (SB)	465	43.2	50	189	5.9	71.9	-1	0.2	-14.8	-11.5	-4	2.5	43.3	
537		Fan Leng Lau Road (SB)	465	43.2	50	137	5	71.9	-1	0.1	-15.6	-10.2	-1.3	2.5	46.4	
538		Fan Leng Lau Road (SB)	465	43.2	50	129	4.3	71.9	-1	0.1	-16.2	-9.9	-2.1	2.5	45.3	
539		Fan Leng Lau Road (SB)	1453	33	50	128	2.2	71.9	-1	0.1	-19.2	-9.9	-25	2.5	19.4	
541		Wo Muk Road (EB)	1453	33	50	212	1.8	75.4	-1	0.2	-20.1	-12	-30.1	2.5	14.9	
546		Wo Muk Road (WB)	1425	27.4	50	217	1.6	72	-1	0	-20.5	-12.1	-30.1	2.5	10.8	
571		Ma Sik Road (NB)	1425	27.4	50	101	4.2	74.9	-1	0	-16.3	-8.9	-11.2	2.5	40	
572		Ma Sik Road (NB)	1425	27.4	50	116	5.6	74.9	-1	0	-15.1	-9.5	-11.4	2.5	40.4	
573		Ma Sik Road (SB)	1425	27.4	50	107	5.3	73.7	-1	0.2	-15.3	-9.2	-11.6	2.5	39.3	
574		Ma Sik Road (SB)	1425	27.4	50	96	4.1	73.7	-1	0	-16.4	-8.7	-11.3	2.5	38.8	
575		Ma Sik Road (NB)	1425	27.4	50	70	8.7	73.4	-1	0.2	-13.2	-7.4	-1.7	2.5	52.8	
576		Ma Sik Road (NB)	1425	27.4	50	60	9.5	73.4	-1	0.2	-12.8	-6.7	-0.4	2.5	55.2	
577		Ma Sik Road (NB)	1425	27.4	50	18	4.9	73.4	-1	0.5	-15.7	-2	0	2.5	57.7	
578		Ma Sik Road (NB)	1425	27.4	50	9	7.4	73.4	-1	0.5	-13.8	0.1	0	2.5	61.7	
579		Ma Sik Road (SB)	1425	27.4	50	19	10.7	71.8	-1	0	-12.3	-2.3	0	2.5	58.7	
580		Ma Sik Road (SB)	1425	27.4	50	8	2.5	71.8	-1	0	-18.6	0.5	0	2.5	55.2	
581		Ma Sik Road (SB)	1425	27.4	50	51	8.5	71.8	-1	0	-13.2	-6.1	-1.2	2.5	52.8	
582		Ma Sik Road (SB)	1425	27.4	50	56	7.1	71.8	-1	0	-14	-6.4	-3.5	2.5	49.4	
583		Tin Ping Road (2-way) 375+376	1425	27.4	50	284	15.9	74.3	-1	0.2	-10.5	-13.3	-1.6	2.5	50.6	
584		Tin Ping Road (2-way) 375+376	1425	27.4	50	286	15.4	74.3	-1	0.1	-10.7	-13.3	-9.8	2.5	42.1	
585		Tin Ping Road (2-way) 375+376	1425	27.4	50	282	7.4	74.3	-1	0	-13.9	-13.3	-30.5	2.5	18.1	
586		Tin Ping Road (2-way) 375+376	1425	27.4	50	217	3.5	74.3	-1	0	-17.1	-12.1	-30.3	2.5	16.3	
587		Tin Ping Road (2-way) 375+376	1425	27.4	50	233	2.6	74.2	-1	0.4	-18.4	-12.4	-1.9	2.5	43.4	
601		Ma Sik Road (SB)	1425	27.4	50	127	1.2	75.2	-1	0.9	-21.7	-9.9	-10.2	2.5	35.8	
9019		Po Shek Wu Road (NB)	1425	27.4	50	54	1.1	74.5	-1	0	-22	-6.3	-30.2	2.5	17.5	
9020		Po Shek Wu Road (SB)	1425	27.4	50	70	1.4	76.5	-1	0	-21	-7.3	-30.1	3.2	20.3	
9041		External Road (EB) South of E-8	1425	27.4	50	190	2.4	71.7	-1	0	-18.8	-11.6	-16.4	2.5	26.4	
9042		External Road (WB) South of E-8	1425	27.4	50	195	2.5	71.5	-1	0	-18.7	-11.7	-7.7	2.5	34.9	



Project Number		25278 Agreement No. CE61/2007 North East New Development Areas Planning and Engineering Study												
Title		Sample Calculations for Road Traffic Noise Assessment												
Calculation of Road Traffic Noise														
UK Department of Transport 2000														
NSR ID:		R5861		Total, dB(A)		72.1								
Elevation (m PD):		10.5												
Floor Level:		1 / F												



Project Number 25278 Agreement No. CE61/2007 North East New Development Areas Planning and Engineering Study														
Title Sample Calculations for Road Traffic Noise Assessment														
Calculation of Road Traffic Noise														
UK Department of Transport 2000														
NSR ID:		R6241			Total, dB(A)		70.9							
Elevation (m PD):		10.8												
Floor Level:		1 / F												
								Corrections, dB(A)						
Segment Number	Segment Name	Flow Rate (Veh/hr)	HV%	Speed (Km/hr)	Distance (m)	Angle of View (degree)	Basic Noise Level, dB(A)	Surface	Gradient	Angle View	Distance Attenuation	Barrier	Reflection	Segment Total, dB(A)
568	Jockey Club Road (SB)	1425	27.4	50	294	1.4	76	-1	0.5	-21.1	-13.4	0	2.5	43.5
1112	Pak Wo Road (2-way) 109+110	1425	27.4	50	147	8.4	76.2	-1	0.2	-13.3	-10.5	0	2.5	54.1
1113	Pak Wo Road (2-way) 109+110	1425	27.4	50	96	7.3	76.2	-1	0.1	-13.9	-8.7	0	2.5	55.2
1114	Pak Wo Road (2-way) 109+110	1425	27.4	50	69	15.3	75.9	-1	2	-10.7	-7.3	0	2.5	61.4
1115	Pak Wo Road (2-way) 109+110	1425	27.4	50	68	21.4	76	-1	0.9	-9.2	-7.3	0	2.5	61.9
1116	Pak Wo Road (2-way) 109+110	1425	27.4	50	68	12.8	76	-1	1.1	-11.5	-7.3	0	2.5	59.8
1222	Fanling Highway (EB)	1425	27.4	50	18	136.6	85.8	-3.5	0.3	-1.2	-2	-19.3	4	64.1
1223	Fanling Highway (EB)	1425	27.4	50	15	17.5	85.9	-3.5	0.2	-10.1	-1.3	-19.6	3.5	55.1
1224	Fanling Highway (WB)	1425	27.4	50	42	30	85.4	-3.5	0	-7.8	-5.3	-17.3	3.9	55.4
1225	Fanling Highway (WB)	1425	27.4	50	46	99.6	85.4	-3.5	0	-2.6	-5.7	-17.1	4	60.5
1226	Fanling Highway (WB)	1425	27.4	50	42	13.1	85.3	-3.5	0.3	-11.4	-5.3	-16.9	4	52.5
1605	Fanling Highway (WB)	1425	27.4	50	131	2	84.3	-3.5	0	-19.5	-10	0	2.5	53.8
1606	Fanling Highway (WB)	1425	27.4	50	126	1.9	84.3	-3.5	0	-19.8	-9.8	0	2.5	53.7
1607	Fanling Highway (WB)	1425	27.4	50	77	1.3	84.3	-3.5	0	-21.5	-7.7	0	2.5	54.1
1612	Fanling Highway (EB)	1425	27.4	50	98	1.5	85.2	-3.5	0	-20.7	-8.8	0	2.5	54.7
1613	Fanling Highway (EB)	1425	27.4	50	142	2.1	85.1	-3.5	0.3	-19.2	-10.3	0	2.5	54.9
1614	Fanling Highway (EB)	1425	27.4	50	152	2.3	85.1	-3.5	0.4	-19	-10.6	0	2.5	54.9
1622	Fanling Highway (WB)	1425	27.4	50	22	2.4	84.3	-3.5	0	-18.8	-2.7	0	2.5	61.8