

Appendix 4.13 Calculations of Operation Noise Levels (Mitigated Scenario)

				Predicted Noise Level in 2040 PM PEAK, L _{10(1hour)} , dB(A)		
				Mitigated Scenario (With Proposed Low Noise Road Surfacing and Noise Barriers)		
NAP ID	Floor	NAP Level, mPD	Road Traffic Noise Criteria, dB(A)	Predicted Overall Noise Level, dB(A)	Predicted Maximum Noise Level, dB(A)	Noise Exceedance
N01	1/F	8.2	65	74.2	74.2	Y
N02	1/F	7.2	70	64.2	64.2	N
N03	1/F	9.0	70	65.8	67.6	N
N03	2/F	11.8	70	67.6		
N04	1/F	9.9	70	62.1	68.9	N
N04	2/F	12.7	70	65.9		
N04	3/F	15.5	70	68.9		
N05	1/F	8.9	70	72.4	74.0	Y
N05	2/F	11.7	70	74.0		
N06	1/F	10.8	70	78.5	78.5	Y
N07	1/F	11.7	70	75.7	76.8	Y
N07	2/F	14.5	70	76.7		
N07	3/F	17.3	70	76.8		
N08	1/F	11.9	70	67.7	71.9	Y
N08	2/F	14.7	70	71.9		
N09a	1/F	10.9	70	69.2	71.6	Y
N09a	2/F	13.7	70	71.6		
N09b	1/F	10.9	70	70.5		
N09b	2/F	13.7	70	71.5	72.3	Y
N09b	3/F	16.5	70	72.3		
N10	1/F	12.7	70	68.3	68.7	N
N10	2/F	15.5	70	68.7		
N11	1/F	14.6	70	74.7	77.9	Y
N11	2/F	17.4	70	77.9		
N12	1/F	14.1	70	70.6	71.2	Y
N12	2/F	16.9	70	71.2		
N13	1/F	13.5	70	70.9	71.6	Y
N13	2/F	16.3	70	71.6		
N14	1/F	16.0	70	75.2	75.8	Y
N14	2/F	18.8	70	75.8		
N15	1/F	15.8	70	77.5	78.7	Y
N15	2/F	18.6	70	78.7		
N16	1/F	16.8	70	72.8	73.6	Y
N16	2/F	19.6	70	73.6		
N17	1/F	17.2	70	75.5	78.5	Y
N17	2/F	20.0	70	78.5		
N18	1/F	18.0	70	72.9	74.3	Y
N18	2/F	20.8	70	73.9		
N18	3/F	23.6	70	74.3		
N19	1/F	18.2	70	70.6	70.6	Y
N20	1/F	19.7	70	70.7	72.4	Y
N20	2/F	22.5	70	71.8		
N20	3/F	25.3	70	72.4		
N21	1/F	20.2	70	73.9	75.1	Y
N21	2/F	23.0	70	75.1		
N22	1/F	19.6	70	73.7	76.3	Y
N22	2/F	22.4	70	75.7		
N22	3/F	25.2	70	76.3		
N23	1/F	22.2	70	70.9	70.9	Y
N24	1/F	22.2	70	74.6	75.7	Y
N24	2/F	25.0	70	75.5		
N24	3/F	27.8	70	75.7		
N25	1/F	22.9	70	75.0	75.8	Y
N25	2/F	25.7	70	75.8		
N25	3/F	28.5	70	75.7		
N26	1/F	23.0	70	73.4	74.4	Y
N26	2/F	25.8	70	74.1		
N26	3/F	28.6	70	74.4		
N27	1/F	23.9	70	68.6	69.6	N
N27	2/F	26.7	70	69.2		
N27	3/F	29.5	70	69.6		
N28	1/F	24.3	70	74.3	75.4	Y
N28	2/F	27.1	70	75.2		
N28	3/F	29.9	70	75.4		
N29	1/F	25.3	70	70.3	71.4	Y
N29	2/F	28.1	70	71.0		
N29	3/F	30.9	70	71.4		
N30	1/F	25.0	70	69.8	70.7	Y
N30	2/F	27.8	70	70.7		

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NAP ID	Floor	NAP Level, mPD	Road Traffic Noise Criteria, dB(A)	Predicted Overall Noise Level, dB(A)	Predicted Maximum Noise Level, dB(A)	Noise Exceedance
N31	1/F	25.6	70	69.3		
N31	2/F	28.4	70	70.0	70.4	N
N31	3/F	31.2	70	70.4		
N32	1/F	29.4	70	74.7		
N32	2/F	32.2	70	75.5	75.5	Y
N33	1/F	38.8	70	71.0		
N33	2/F	41.6	70	72.5	73.4	Y
N33	3/F	44.4	70	73.4		
N34	1/F	43.0	70	71.7		
N34	2/F	45.8	70	72.4	72.4	Y
N35	1/F	42.6	70	71.4		
N35	2/F	45.4	70	72.6	72.6	Y
N36	1/F	47.7	70	70.9		
N36	2/F	50.5	70	71.7	72.2	Y
N36	3/F	53.3	70	72.2		
N37	1/F	47.7	70	71.9		
N37	2/F	50.5	70	72.9	73.5	Y
N37	3/F	53.3	70	73.5		
N38	1/F	46.7	70	71.0	71.0	Y
N39	1/F	45.0	70	79.6		
N39	2/F	47.8	70	79.8	79.8	Y
N40	1/F	45.8	70	75.6		
N40	2/F	48.6	70	76.5	76.6	Y
N40	3/F	51.4	70	76.6		
N41	1/F	47.8	70	76.1		
N41	2/F	50.6	70	77.0	77.0	Y
N42	1/F	46.5	70	75.0		
N42	2/F	49.3	70	76.0	76.0	Y
N43	1/F	49.5	70	75.9		
N43	2/F	52.3	70	75.8	75.9	Y
N43	3/F	55.1	70	75.6		
N44	1/F	51.0	70	65.3		
N44	2/F	53.8	70	65.7	66.8	N
N44	3/F	56.6	70	66.8		
N45	1/F	52.4	70	64.7		
N45	2/F	55.2	70	65.2	66.0	N
N45	3/F	58.0	70	66.0		
N46	1/F	56.4	70	73.7		
N46	2/F	59.2	70	73.7	73.7	Y
N46	3/F	62.0	70	73.6		
N47	1/F	59.9	70	66.9		
N47	4/F	68.3	70	68.4	69.1	N
N47	7/F	76.7	70	69.1		
N48	1/F	71.4	70	66.2		
N48	2/F	74.2	70	66.5	66.5	N
N49	1/F	53.1	70	65.7	65.7	N
N50	1/F	63.2	70	67.7	67.7	N
N51	1/F	71.5	70	69.7	69.7	N
N52	1/F	84.1	70	66.8		
N52	2/F	86.9	70	68.7	68.7	N
N53	1/F	102.5	70	67.9	67.9	N
N54	1/F	135.7	70	68.5		
N54	2/F	138.5	70	70.3	70.3	N
N55	1/F	151.6	70	70.3	70.3	N
N56	1/F	171.2	N/A	N/A	N/A	N/A
N57	1/F	158.7	70	73.5	73.5	Y

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NAP ID	Floor	NAP Level, mPD	Road Traffic Noise Criteria, dB(A)	Predicted Overall Noise Level, dB(A)	Predicted Maximum Noise Level, dB(A)	Noise Exceedance
P01	1/F	9.0	70	79.6		
P01	2/F	11.8	70	80.0	80.0	Y
P01	3/F	14.6	70	79.9		
P02	1/F	8.0	70	67.6		
P02	2/F	10.8	70	70.3	74.9	Y
P02	3/F	13.6	70	74.9		
P03	1/F	9.1	70	78.5		
P03	2/F	12.1	70	78.5	78.5	Y
P04	1/F	8.8	70	79.7		
P04	2/F	11.6	70	79.6	79.7	Y
P04	3/F	14.4	70	79.4		
P05	1/F	9.4	70	79.7		
P05	2/F	12.2	70	80.0	80.0	Y
P05	3/F	15.0	70	79.4		
P06	1/F	11.1	70	79.6		
P06	2/F	14.1	70	79.9	79.9	Y
P07	1/F	10.3	70	74.1		
P07	2/F	13.3	70	75.7	76.4	Y
P07	3/F	16.3	70	76.4		
P08	1/F	24.0	70	79.1		
P08	2/F	26.8	70	79.8	79.8	Y
P08	3/F	29.6	70	79.4		
P09	1/F	26.7	70	79.5		
P09	2/F	29.5	70	79.8	79.8	Y
P09	3/F	32.3	70	79.2		
P10	1/F	30.6	70	79.2		
P10	2/F	33.4	70	79.8	79.8	Y
P10	3/F	36.2	70	79.5		
P11	1/F	32.9	70	81.9		
P11	2/F	35.9	70	81.6	81.9	Y
P12	1/F	53.9	70	77.5		
P12	2/F	56.9	70	77.2	77.5	Y
P13	1/F	47.4	70	79.5		
P13	2/F	50.2	70	79.9	79.9	Y
P13	3/F	53.0	70	79.2		
P14	1/F	51.9	70	64.5		
P14	2/F	54.7	70	68.2	77.0	Y
P14	3/F	57.5	70	77.0		