



APPENDIX N

Noise and Vibration Data



N.1

Ambient and Noise Measurements

APPENDIX N.1-1

Long-Term (24-hour) Ambient Noise Measurements

Monitoring Location: Site 1

Primary Noise Source:

Secondary Noise Source(s):

Monitoring Period	0 / 24	Monitored Logarithmic		Evening/Night Adjustments	
		Leq	Equivalent	10 dB	5 dB
Midnight	0 / 24	52.2	165959	1659587	524807
am 1:00	100	51.6	144544	1445440	457088
2:00	200	48.2	66069	660693	208930
3:00	300	47.7	58884	588844	186209
4:00	400	51.2	131826	1318257	416869
5:00	500	54.1	257040	2570396	812831
6:00	600	59.1	812831	8128305	2570396
7:00	700	62.5	1778279	17782794	5623413
8:00	800	62.2	1659587	16595869	5248075
9:00	900	61.8	1513561	15135612	4786301
10:00	1000	60	1000000	10000000	3162278
11:00	1100	63.9	2454709	24547089	7762471
pm 12:00	1200	61.9	1548817	15488166	4897788
1:00	1300	67.5	5623413	56234133	17782794
2:00	1400	61.8	1513561	15135612	4786301
3:00	1500	62.8	1905461	19054607	6025596
4:00	1600	62.7	1862087	18620871	5888437
5:00	1700	61.7	1479108	14791084	4677351
6:00	1800	74.3	26915348	269153480	85113804
7:00	1900	60.6	1148154	11481536	3630781
8:00	2000	58.7	741310	7413102	2344229
9:00	2100	58.2	660693	6606934	2089296
10:00	2200	57	501187	5011872	1584893
pm 11:00	2300	55.7	371535	3715352	1174898

Leq Morning Peak Hour 7:00-10:00 a.m.

62 dBA

Leq Evening Peak Hour 4:00-8:00 p.m.

69 dBA

Leq Nighttime 10:00 pm-7:00 a.m. (not adjusted)

54.5 dBA

Leq Daytime 7:00 am-10:00 p.m.

65.4 dBA

Leq 24-Hour

64 dBA

Ldn: 10 dB adjustment between 10:00 p.m. & 7:00 a.m.

65 dBA

CNEL: 5 dB adjustment between 7:00p.m. & 10:00 p.m., & 10 dB adjustment between 10:00 p.m. & 7:00 a.m.

65.4 dBA

Difference between CNEL and Ldn

CNEL - Ldn 0.30074363

Monitoring Location: Site 2

Primary Noise Source:

Monitoring Period			Monitored Leq	Logarithmic Equivalent	Evening/Night Adjustments	
					10 dB	5 dB
Midnight	0 / 24		57.5	562341	5623413	1778279
am	1:00	100	56.3	426580	4265795	1348963
	2:00	200	52.3	169824	1698244	537032
	3:00	300	53.4	218776	2187762	691831
	4:00	400	59.8	954993	9549926	3019952
	5:00	500	62.8	1905461	19054607	6025596
	6:00	600	62.7	1862087	18620871	5888437
	7:00	700	68.8	7585776	75857758	23988329
	8:00	800	66.9	4897788	48977882	15488166
	9:00	900	63.5	2238721	22387211	7079458
	10:00	1000	63.3	2137962	21379621	6760830
	11:00	1100	64.7	2951209	29512092	9332543
	12:00	1200	63.2	2089296	20892961	6606934
pm	1:00	1300	64.1	2570396	25703958	8128305
	2:00	1400	65.1	3235937	32359366	10232930
	3:00	1500	63.9	2454709	24547089	7762471
	4:00	1600	64.6	2884032	28840315	9120108
	5:00	1700	65	3162278	31622777	10000000
	6:00	1800	64.3	2691535	26915348	8511380
	7:00	1900	63.2	2089296	20892961	6606934
	8:00	2000	63.1	2041738	20417379	6456542
	9:00	2100	63.9	2454709	24547089	7762471
	10:00	2200	63.2	2089296	20892961	6606934
	11:00	2300	60.2	1047129	10471285	3311311

Secondary Noise Source(s):

Leq Morning Peak Hour 7:00-10:00 a.m.

67 dBA

Leq Evening Peak Hour 4:00-8:00 p.m.

64 dBA

Leq Nighttime 10:00 pm-7:00 a.m. (not adjusted)

60.1 dBA

Leq Daytime 7:00 am-10:00 p.m.

64.8 dBA

Leq 24-Hour

64 dBA

Ldn: 10 dB adjustment between 10:00 p.m. & 7:00 a.m.

68 dBA

CNEL: 5 dB adjustment between 7:00p.m. & 10:00 p.m., & 10 dB adjustment between 10:00 p.m. & 7:00 a.m.

68.0 dBA

Difference between CNEL and Ldn

CNEL - Ldn = 0.426944

Monitoring Location: Site 3
Primary Noise Source:

Monitoring Period	0 / 24	Monitored Leq	Logarithmic Equivalent	Evening/Night Adjustments	
				10 dB	5 dB
am	Midnight	63.7	2344229	23442288	7413102
	1:00	62.1	1621810	16218101	5128614
	2:00	58.6	724436	7244360	2290868
	3:00	65.4	3467369	34673685	10964782
	4:00	64.8	3019952	30199517	9549926
	5:00	67.2	5248075	52480746	16595869
	6:00	70	10000000	100000000	31622777
	7:00	70.9	12302688	123026877	38904514
	8:00	70.8	12022644	120226443	38018940
	9:00	70.9	12302688	123026877	38904514
	10:00	70.2	10471285	104712855	33113112
	11:00	70	10000000	100000000	31622777
pm	12:00	71.5	14125375	141253754	44668359
	1:00	71.3	13489629	134896288	42657952
	2:00	71.7	14791084	147910839	46773514
	3:00	70.8	12022644	120226443	38018940
	4:00	71.6	14454398	144543977	45708819
	5:00	72	15848932	158489319	50118723
	6:00	72.7	18620871	186208714	58884366
	7:00	71.8	15135612	151356125	47863009
	8:00	70.1	10232930	102329299	32359366
	9:00	69.3	8511380	85113804	26915348
	10:00	69.5	8912509	89125094	28183829
pm	11:00	67	5011872	50118723	15848932

Secondary Noise Source(s):

Leq Morning Peak Hour 7:00-10:00 a.m.
 dBA

Leq Evening Peak Hour 4:00-8:00 p.m.
 dBA

Leq Nighttime 10:00 pm-7:00 a.m. (not adjusted)
 dBA

Leq Daytime 7:00 am-10:00 p.m.
 dBA

Leq 24-Hour
 dBA

Ldn: 10 dB adjustment between 10:00 p.m. & 7:00 a.m.
 dBA

CNEL: 5 dB adjustment between 7:00p.m. & 10:00 p.m., & 10 dB adjustment between 10:00 p.m. & 7:00 a.m.
 dBA

Difference between CNEL and Ldn

Monitoring Location: Site 4

Primary Noise Source:

Secondary Noise Source(s):

Monitoring Period	0 / 24	Evening/Night Adjustments			
		Monitored Leq	Logarithmic Equivalent	10 dB	5 dB
Midnight	0 / 24	69.8	9549926	95499259	30199517
am 1:00	100	68.3	6760830	67608298	21379621
2:00	200	66.3	4265795	42657952	13489629
3:00	300	67.8	6025596	60255959	19054607
4:00	400	71.4	13803843	138038426	43651583
5:00	500	73.6	22908677	229086765	72443596
6:00	600	75.4	34673685	346736850	109647820
7:00	700	77.4	54954087	549540874	173780083
8:00	800	77.7	58884366	588843655	186208714
9:00	900	76.3	42657952	426579519	134896288
10:00	1000	77	50118723	501187234	158489319
11:00	1100	75.9	38904514	389045145	123026877
12:00	1200	76.3	42657952	426579519	134896288
pm 1:00	1300	77.5	56234133	562341325	177827941
2:00	1400	76.9	48977882	489778819	154881662
3:00	1500	76.6	45708819	457088190	144543977
4:00	1600	77	50118723	501187234	158489319
5:00	1700	76.9	48977882	489778819	154881662
6:00	1800	75.9	38904514	389045145	123026877
7:00	1900	74.2	26302680	263026799	83176377
8:00	2000	75.3	33884416	338844156	107151931
9:00	2100	76.6	45708819	457088190	144543977
10:00	2200	75	31622777	316227766	100000000
pm 11:00	2300	74.7	29512092	295120923	93325430

Leq Morning Peak Hour 7:00-10:00 a.m.

77 dBA

Leq Evening Peak Hour 4:00-8:00 p.m.

76 dBA

Leq Nighttime 10:00 pm-7:00 a.m. (not adjusted)

72.5 dBA

Leq Daytime 7:00 am-10:00 p.m.

76.6 dBA

Leq 24-Hour

75.5 dBA

Ldn: 10 dB adjustment between 10:00 p.m. & 7:00 a.m.

80 dBA

CNEL: 5 dB adjustment between 7:00p.m. & 10:00 p.m., & 10 dB adjustment between 10:00 p.m. & 7:00 a.m.

80.2 dBA

Difference between CNEL and Ldn

CNEL - Ldn 0.41662312

Monitoring Location: Site 5

Primary Noise Source:

Monitoring Period	Monitored Leq	Logarithmic Equivalent	Evening/Night Adjustments	
			10 dB	5 dB
Midnight 0 / 24	73	19952623	199526231	63095734
am 1:00 100	66.8	4786301	47863009	15135612
2:00 200	65.9	3890451	38904514	12302688
3:00 300	66.8	4786301	47863009	15135612
4:00 400	70.2	10471285	104712855	33113112
5:00 500	72	15848932	158489319	50118723
6:00 600	71.4	13803843	138038426	43651583
7:00 700	72.2	16595869	165958691	52480746
8:00 800	72.4	17378008	173780083	54954087
9:00 900	72.1	16218101	162181010	51286138
10:00 1000	72.2	16595869	165958691	52480746
11:00 1100	72.4	17378008	173780083	54954087
12:00 1200	72.3	16982437	169824365	53703180
pm 1:00 1300	74.2	26302680	263026799	83176377
2:00 1400	73.1	20417379	204173794	64565423
3:00 1500	72.8	19054607	190546072	60255959
4:00 1600	73.3	21379621	213796209	67608298
5:00 1700	74.7	29512092	295120923	93325430
6:00 1800	76.8	47863009	478630092	151356125
7:00 1900	72.4	17378008	173780083	54954087
8:00 2000	72.5	17782794	177827941	56234133
9:00 2100	71.5	14125375	141253754	44668359
10:00 2200	71	12589254	125892541	39810717
pm 11:00 2300	71.3	13489629	134896288	42657952

Secondary Noise Source(s):

Leq Morning Peak Hour 7:00-10:00 a.m.

72 dBA

Leq Evening Peak Hour 4:00-8:00 p.m.

75 dBA

Leq Nighttime 10:00 pm-7:00 a.m. (not adjusted)

70.4 dBA

Leq Daytime 7:00 am-10:00 p.m.

73.2 dBA

Leq 24-Hour

72.4 dBA

Ldn: 10 dB adjustment between 10:00 p.m. & 7:00 a.m.

77 dBA

CNEL: 5 dB adjustment between 7:00p.m. & 10:00 p.m., & 10 dB adjustment between 10:00 p.m. & 7:00 a.m.

77.7 dBA

Difference between CNEL and Ldn

CNEL - Ldn = 0.339382

Site	Date	Time Period	1-hour Leq	Average	
A	26-Nov	AM	64.2	64.1	
		PM	64.1		
	28-Nov	AM	63.5		
		PM	64.6		
B	11-Dec	AM	72.1		73.5
		PM	71.2		
	13-Dec	AM	76.1		
		PM	72.9		
C	11-Dec	AM	77.3	76.7	
		PM	76.1		
	13-Dec	AM	77.1		
		PM	76.2		
D	27-Nov	AM	75.1		76.2
		PM	78.5		
	4-Dec	AM	74.4		
		PM	75.4		
E	27-Nov	AM	72.8	72.6	
		PM	71.7		
	4-Dec	AM	73.1		
		PM	72.7		
F	21-Jan	AM	62.7		68.8
		PM	63.8		
	23-Jan	AM	71.5		
		PM	70.9		
G	11-Dec	AM	64.3	67.3	
		PM	67.0		
	13-Dec	AM	68.0		
		PM	68.8		
H	17-Dec	AM	68.1		67.6
		PM	69.1		
	19-Dec	AM	65.4		
		PM	66.8		
I	11-Dec	AM	69.5	68.0	
		PM	66.6		
	13-Dec	AM	67.6		
		PM	67.8		
J	17-Dec	AM	73.3		73.6
		PM	73.2		
	19-Dec	AM	73.8		
		PM	73.9		
K	26-Nov	AM	67.1	67.5	
		PM	68.0		
	28-Nov	AM	69.1		
		PM	64.6		
L	17-Dec	AM	73.9		74.0
		PM	74.2		
	19-Dec	AM	74.5		
		PM	73.4		
M	17-Dec	AM	72.8	74.9	
		PM	75.9		
	19-Dec	AM	73.2		
		PM	76.6		

Monitoring Location: Site A
Monitoring Date: 8/4/2020

Monitoring Period

Time	LAeq	LASmax	LASmin
20:35:20	56.6	69.5	46.6
20:36:20	55.1	59.8	49.3
20:37:20	61.1	66.0	52.4
20:38:20	57.5	68.5	48.9
20:39:20	59.1	72.7	46.5
20:40:20	58.8	72.1	49.9
20:41:20	58.2	73.9	47.5
20:42:20	55.4	61.7	49.5
20:43:20	59.2	66.2	49.6
20:44:20	57.6	63.5	50.3
20:45:20	52.8	55.7	49.1
20:46:20	58.0	65.6	49.6
20:47:20	54.3	60.9	48.4
20:48:20	51.7	56.3	48.0
20:49:20	61.7	71.2	49.3
20:50:20	53.1	57.3	52.3



15-minute LAeq

57.8

Monitoring Location: Site B
Monitoring Date: 8/4/2020

Monitoring Period

Time	LAeq	LASmax	LASmin
20:20:17	67.6	76.9	50.5
20:21:17	73.3	79.1	58.5
20:22:17	68.4	75.3	53.0
20:23:17	68.6	75.2	58.8
20:24:17	70.5	79.7	50.6
20:25:17	73.1	79.3	51.2
20:26:17	63.4	71.4	48.8
20:27:17	70.6	78.6	51.9
20:28:17	69.4	76.6	51.1
20:29:17	67.9	74.4	58.6
20:30:17	68.2	77.2	49.9
20:31:17	72.4	80.6	50.6
20:32:17	69.2	78.5	50.6
20:33:17	72.6	79.8	49.7
20:34:17	73.6	82.8	50.0
20:35:17	65.1	66.9	57.2



15-minute LAeq

70.5

Monitoring Location: Site C
Monitoring Date: 8/5/2020

Monitoring Period

Time	LAeq	LASmax	LASmin
20:44:28	70.8	76.7	55.6
20:45:28	67.5	76.1	52.5
20:46:28	70.5	76.9	58.7
20:47:28	70.6	80.1	50.0
20:48:28	71.4	76.7	49.8
20:49:28	65.8	72.9	51.0
20:50:28	68.8	76.9	53.4
20:51:28	69.8	76.1	54.0
20:52:28	68.8	76.4	57.1
20:53:28	69.4	74.4	59.9
20:54:28	73.4	85.1	52.9
20:55:28	74.8	87.7	52.8
20:56:28	70.3	79.0	52.8
20:57:28	65.2	73.3	54.0
20:58:28	72.8	81.0	54.2
20:59:28	68.9	70.2	67.2



15-minute LAeq

70.6

Monitoring Location: Site D
Monitoring Date: 8/5/2020

Monitoring Period

Time	LAeq	LASmax	LASmin
21:29:59	67.8	77.1	51.2
21:30:59	64.6	72.4	55.3
21:31:59	68.0	76.6	58.7
21:32:59	70.2	80.1	53.9
21:33:59	73.1	79.3	53.1
21:34:59	64.6	73.3	53.7
21:35:59	58.6	69.6	50.2
21:36:59	69.5	77.2	50.8
21:37:59	60.9	70.3	51.0
21:38:59	64.8	77.3	51.5
21:39:59	64.7	76.0	50.4
21:40:59	65.6	75.5	51.7
21:41:59	62.4	70.3	50.8
21:42:59	61.0	69.4	55.2
21:43:59	68.4	76.1	55.4
21:44:59	80.7	83.5	73.2

15-minute LAeq

70.9
67.0

Monitoring Location: Site E
Monitoring Date: 8/5/2020

Monitoring Period

Time	LAeq	LASmax	LASmin
21:48:43	63.7	70.8	53.4
21:49:43	70.4	77.9	62.1
21:50:43	63.2	70.7	53.4
21:51:43	66.3	76.5	55.3
21:52:43	70.3	82.7	51.9
21:53:43	68.3	75.7	59.5
21:54:43	58.3	64.8	48.7
21:55:43	63.7	70.1	51.2
21:56:43	68.2	77.8	48.5
21:57:43	59.6	69.3	50.3
21:58:43	64.6	73.8	47.1
21:59:43	68.9	75.7	49.0
22:00:43	63.4	71.0	52.9
22:01:43	65.4	74.2	51.2
22:02:43	64.0	73.3	54.4
22:03:43	54.6	55.5	54.2



15-minute LAeq

66.2

Monitoring Location: Site F
Monitoring Date: 8/5/2020

Monitoring Period

Time	LAeq	LASmax	LASmin
21:07:08	59.8	69.6	43.2
21:08:08	63.2	73.2	46.6
21:09:08	57.8	69.2	45.0
21:10:08	54.2	64.8	42.7
21:11:08	62.0	75.2	42.6
21:12:08	59.6	70.7	43.9
21:13:08	57.5	65.7	47.1
21:14:08	55.7	64.8	45.1
21:15:08	60.3	69.5	49.2
21:16:08	57.1	66.9	46.3
21:17:08	54.7	58.9	46.5
21:18:08	62.1	73.0	44.8
21:19:08	61.8	69.6	48.4
21:20:08	63.0	75.6	44.5
21:21:08	58.1	70.9	43.2
21:22:08	57.7	59.0	50.0



15-minute LAeq

59.9

Monitoring Location: Site G
Monitoring Date: 8/5/2020

Monitoring Period

Time	LAeq	LASmax	LASmin
20:27:12	60.7	67.7	43.9
20:28:12	59.4	69.2	48.0
20:29:12	61.1	67.4	49.6
20:30:12	63.3	70.8	49.4
20:31:12	61.9	71.7	48.8
20:32:12	55.0	61.2	42.8
20:33:12	62.9	72.1	46.1
20:34:12	48.9	58.5	41.8
20:35:12	60.2	67.6	44.1
20:36:12	66.5	80.2	48.2
20:37:12	60.8	68.2	47.9
20:38:12	65.6	72.5	50.5
20:39:12	55.3	66.2	41.8
20:40:12	92.0	105.4	46.9
20:41:12	62.0	69.2	49.9
20:42:12	60.4	67.7	54.0



15-minute LAeq

80.0
61.5

Monitoring Location: Site H
Monitoring Date: 8/4/2020

Monitoring Period

Time	LAeq	LASmax	LASmin
20:40:17	46.7	52.2	43.4
20:41:17	51.4	58.8	43.4
20:42:17	53.2	60.5	47.3
20:43:17	56.2	63.1	44.5
20:44:17	56.1	65.7	44.9
20:45:17	51.1	57.0	45.8
20:46:17	56.1	61.3	49.0
20:47:17	66.0	74.1	46.7
20:48:17	47.5	52.6	44.0
20:49:17	53.5	63.4	45.2
20:50:17	55.2	61.7	44.7
20:51:17	52.2	59.3	44.0
20:52:17	53.2	61.2	44.1
20:53:17	46.6	56.2	42.9
20:54:17	52.0	58.8	43.0
20:55:17	56.0	56.9	55.0



15-minute LAeq

56.6

Monitoring Location: Site I
Monitoring Date: 8/4/2020

Monitoring Period

Time	LAeq	LASmax	LASmin
21:14:41	54.3	63.7	48.9
21:15:41	60.6	72.2	50.7
21:16:41	54.1	61.5	50.1
21:17:41	65.1	73.7	50.6
21:18:41	54.4	59.7	49.3
21:19:41	56.4	66.2	50.2
21:20:41	62.7	72.9	52.9
21:21:41	59.2	72.8	51.4
21:22:41	55.8	63.6	52.0
21:23:41	55.8	64.1	50.1
21:24:41	53.4	60.1	49.5
21:25:41	56.6	69.2	49.6
21:26:41	55.2	59.8	51.3
21:27:41	57.8	65.0	49.6
21:28:41	54.9	63.5	49.6
21:29:41	55.0	57.4	51.6



15-minute LAeq

58.5

Monitoring Location: Site J
Monitoring Date: 8/4/2020

Monitoring Period

Time	LAeq	LASmax	LASmin
20:53:54	67.9	76.9	49.4
20:54:54	68.3	74.0	49.9
20:55:54	66.6	72.8	52.3
20:56:54	65.2	72.1	50.9
20:57:54	71.9	76.1	56.9
20:58:54	71.0	79.1	56.9
20:59:54	69.5	74.3	56.6
21:00:54	71.3	83.4	54.5
21:01:54	69.5	76.7	54.0
21:02:54	66.6	72.3	58.4
21:03:54	68.9	75.7	56.1
21:04:54	72.7	78.2	54.4
21:05:54	66.7	76.1	51.0
21:06:54	67.3	73.7	53.2
21:07:54	68.6	75.9	52.1
21:08:54	61.7	67.7	51.4



15-minute LAeq

69.1

Monitoring Location: Site K
Monitoring Date: 8/4/2020

Monitoring Period

Time	LAeq	LASmax	LASmin
20:15:47	62.4	68.0	53.4
20:16:47	59.9	69.9	52.5
20:17:47	65.4	74.5	55.2
20:18:47	63.1	73.8	52.6
20:19:47	60.9	69.7	52.3
20:20:47	62.2	68.8	52.7
20:21:47	61.3	70.8	51.0
20:22:47	62.9	70.0	51.1
20:23:47	67.2	76.7	53.1
20:24:47	62.7	71.1	56.6
20:25:47	60.3	66.0	51.8
20:26:47	57.8	68.9	48.3
20:27:47	60.5	69.0	51.0
20:28:47	64.5	76.2	53.7
20:29:47	58.1	68.2	49.9
20:30:47	68.8	69.2	68.0



15-minute LAeq

63.4

Monitoring Location: Site L
Monitoring Date: 8/4/2020

Monitoring Period

Time	LAeq	LASmax	LASmin
21:05:20	69.6	75.9	58.5
21:06:20	73.4	78.3	62.9
21:07:20	72.5	81.8	55.9
21:08:20	70.8	80.1	56.7
21:09:20	71.0	82.0	48.7
21:10:20	76.0	84.2	55.8
21:11:20	69.4	76.6	59.0
21:12:20	76.1	85.3	51.8
21:13:20	70.8	78.6	52.5
21:14:20	68.7	78.3	55.5
21:15:20	70.8	76.9	49.7
21:16:20	78.5	92.7	59.8
21:17:20	65.7	76.1	43.3
21:18:20	73.2	82.4	49.7
21:19:20	72.3	81.0	58.1
21:20:20	59.1	61.5	58.7



15-minute LAeq

72.8

Monitoring Location: Site M

Monitoring Date: 8/4/2020

Monitoring Period

Time	LAeq	LASmax	LASmin
21:28:34	68.0	79.9	45.2
21:29:34	71.3	78.9	53.1
21:30:34	70.2	80.2	53.3
21:31:34	65.7	73.2	55.7
21:32:34	72.0	79.4	49.7
21:33:34	61.8	74.4	41.1
21:34:34	63.8	76.6	44.2
21:35:34	69.0	79.1	47.6
21:36:34	68.9	79.1	54.7
21:37:34	68.8	76.9	46.1
21:38:34	66.5	74.4	45.7
21:39:34	45.8	51.8	42.6
21:40:34	67.4	78.5	41.4
21:41:34	69.6	81.5	47.4
21:42:34	65.1	75.9	48.0
21:43:34	51.2	51.6	49.5



15-minute LAeq

67.9



N.2

Roadway Noise Levels



ROADWAY SEGMENT ADT - TYPICAL WEEKDAY NON-EVENT CONDITIONS ADJUSTED BASELINE WITHOUT ITC PROJECT

STREET	Facility Type	Segment		Adjusted Baseline - ADT				
		From	To	NB/EB	SB/WB	Total		
NORTH/SOUTH STREETS								
La Brea Av	Major Arterial	Hyde Park Bl	Florence Av	9,883	11,102	20,985		
		Florence Av	Manchester Bl	11,991	12,689	24,680		
		Manchester Bl	Spruce Av/Market St	9,482	9,880	19,362		
		Spruce Av/Market St	Arbor Vitae St	11,645	13,338	24,983		
		Arbor Vitae St	Hardy St	13,988	14,817	28,805		
Hawthorne Bl	Major Arterial	Hardy St	Century Bl	14,385	15,591	29,976		
		Century Bl	104th St	20,965	22,090	43,055		
		104th St	Lennox Bl	23,180	25,027	48,207		
		Florence Av	Regent St	10,924	11,165	22,089		
		Regent St	Manchester Bl	11,194	10,963	22,157		
Prairie Av	Major Arterial	Manchester Bl	Pincay Dr/Kelso St	14,038	15,213	29,251		
		Pincay Dr/Kelso St	Arbor Vitae St	19,733	19,220	38,953		
		Arbor Vitae St	Hardy St	16,480	16,066	32,546		
		Hardy St	97th St	17,433	17,520	34,953		
		97th St	Century Bl	17,433	17,520	34,953		
		Century Bl	102nd St	15,568	15,884	31,452		
		102nd St	104th St	15,734	16,220	31,954		
		104th St	Lennox Bl	16,139	16,424	32,563		
		80th St	Manchester Bl	11,503	12,165	23,668		
		Manchester Bl	Pincay Dr/90th St	12,324	13,967	26,291		
Crenshaw Bl	Major Arterial	Pincay Dr/90th St	Arbor Vitae St	14,899	17,120	32,019		
		Arbor Vitae St	Hardy St	14,521	16,351	30,872		
		Hardy St	Century Bl	14,978	16,704	31,682		
		Century Bl	104th St	13,087	14,441	27,528		
		104th St	Regent St	1,526	1,693	3,219		
Market St	Minor Arterial	Regent St	Manchester Bl	3,540	4,250	7,790		
		Manchester Bl	Arbor Vitae St	1,753	2,128	3,881		
Myrtle Av	Collector	Century Bl	104th St	2,812	2,745	5,557		
Doty Av	Collector	Century Bl	104th St	5,068	5,375	10,443		
Yukon Av	Collector	Century Bl	104th St	1,859	1,869	3,728		
Locust St	Collector	Florence Av	Manchester Bl					
EAST/WEST STREETS								
Centinela Av	Major Arterial	Hyde Park Bl	Florence Av	12,891	12,875	25,766		
Florence Av	Major Arterial	Fir Av	La Brea Av	8,467	8,368	16,835		
		La Brea Av	Market St	10,817	10,225	21,042		
		Market St	Centinela Av	12,398	12,098	24,496		
		Centinela Av	Prairie Av	20,387	20,353	40,740		
		Prairie Av	West Bl	20,052	20,041	40,093		
Manchester Bl	Major Arterial	Grevillea Av	La Brea Av	10,586	10,849	21,435		
		La Brea Av	Market St	10,741	10,992	21,733		
		Market St	Locust St	9,360	9,461	18,821		
		Locust St	Hillcrest Bl	9,966	10,224	20,190		
		Hillcrest Bl	Spruce Av	12,395	12,110	24,505		
		Spruce Av	Prairie Av	14,335	14,400	28,735		
		Prairie Av	Kareem Ct	15,213	16,761	31,974		
		Kareem Ct	Crenshaw Dr	17,986	18,762	36,748		
		Crenshaw Dr	Crenshaw Bl	13,549	14,346	27,895		
		Crenshaw Bl	Van Ness Av	14,947	16,264	31,211		
		Grevillea Av	La Brea Av	6,542	7,209	13,751		
		La Brea Av	Myrtle Av	4,723	4,528	9,251		
		Myrtle Av	Prairie Av	4,181	4,245	8,426		
		Prairie Av	La Brea Av/Hawthorne Bl	25,463	25,146	50,609		
		Arbor Vitae St	Major Arterial	La Brea Av/Hawthorne Bl	Myrtle Av	20,802	20,477	41,279
Myrtle Av	Freeman Av			19,330	18,567	37,897		
Freeman Av	Prairie Av			16,823	16,366	33,189		
Prairie Av	Doty Av			20,647	20,426	41,073		
Doty Av	HP Casino Dr			21,464	20,906	42,370		
HP Casino Dr	Yukon Av			21,464	20,906	42,370		
Yukon Av	Club Dr			20,470	20,683	41,153		
Club Dr	Crenshaw Bl			21,605	21,559	43,164		
Crenshaw Bl	Van Ness Av			18,536	18,097	36,633		
Grevillea Av	La Brea Av			2,676	2,523	5,199		
La Brea Av	Market St			8,193	7,982	16,175		
Market St	Prairie Ave			3,913	4,286	8,199		
Hillcrest Bl	Collector			Grevillea Av	La Brea Av	4,289	4,412	8,701
La Brea Av	Market St			3,830	3,457	7,287		
Market St	Nutwood St / Locust St			4,530	4,530	9,060		
Nutwood St / Locust St	Manchester Bl	2,597	2,421	5,018				
Manchester Bl	Florence Av	3,873	4,073	7,946				
Spruce Av	Collector	La Brea Av	Manchester Av	1,301	1,658	2,959		
Kelso St / Pincay Dr	Collector	Spruce Av	Prairie Av	2,637	2,955	5,592		
		Prairie Av	Kareem Ct	10,340	8,798	19,138		
Hardy St	Collector	Kareem Ct	Crenshaw Bl	7,567	6,797	14,364		
		La Brea Av	Prairie Ave	2,264	2,472	4,736		
104th St	Collector	Grevillea Av	Hawthorne Bl	3,576	3,283	6,859		
		Hawthorne Bl	Prairie Ave	1,920	2,182	4,102		
		Prairie Av	Doty Av	1,858	1,723	3,581		

NB		SB	
Daytime	Nighttime	Daytime	Nighttime
595.6154667	105	669	118.4213333
722.6576	128	765	135.3493333
571.4485333	101	595	105.3866667
701.8053333	124	804	142.272
843.0101333	149	893	158.048
866.936	153	940	166.304
1263.496667	224	1,331	235.6266667
1396.981333	247	1,508	266.9546667
658.3530667	117	673	119.0933333
674.6250667	119	661	116.9386667
846.0234667	150	917	162.272
1189.242133	210	1,158	205.0133333
993.1946667	176	968	171.3706667
1050.6288	186	1,056	186.88
1050.6288	186	1,056	186.88
938.2314667	166	957	169.4293333
948.2357333	168	978	173.0133333
972.6437333	172	990	175.4893333
693.2474667	123	733	129.76
742.7264	131	842	148.9813333
897.9130667	159	1,032	182.6133333
875.1322667	155	985	174.4106667
902.6741333	160	1,007	178.176
788.7098667	140	870	154.0373333
91.96693333	16	102	18.0586667
213.344	38	256	45.33333333
105.6474667	19	128	22.6986667
169.4698667	30	165	29.28
305.4314667	54	324	57.33333333
112.0357333	20	113	19.936

Total	Daytime		Nighttime		Total	Nighttime		Daytime	
	MT	HT	MT	HT		MT	HT	MT	HT
1,264.70	1,226.76	22.76	15.18	223.84	217.12	4.03	2.69	1,487.38	1,442.76
1,166.88	1,131.88	21.00	14.00	206.53	200.33	3.72	2.48	1,373.98	1,338.90
1,505.64	1,460.47	27.10	18.07	266.49	258.49	4.80	3.20	1,806.55	1,752.36
2,594.78	2,516.94	46.71	31.14	459.25	445.48	8.27	5.51	2,905.28	2,818.12
1,331.23	1,291.29	23.96	15.97	235.62	228.55	4.24	2.83	1,335.33	1,295.27
1,762.86	1,709.97	31.73	21.15	312.01	302.65	5.62	3.74	2,106.50	2,043.31
1,895.51	1,838.64	34.12	22.75	335.49	325.42	6.04	4.03	1,925.76	1,867.99
1,962.46	1,903.59	35.32	23.55	347.34	336.92	6.25	4.17	1,426.39	1,383.60
1,584.47	1,536.94	28.52	19.01	280.44	272.02	5.05	3.37	1,929.68	1,871.79
1,860.55	1,804.74	33.49	22.33	329.30	319.42	5.93	3.95	1,909.37	1,852.09
1,659.02	1,609.25	29.86	19.91	293.63	284.82	5.29	3.52	1,460.48	1,415.39
469.48	455.39	8.45	5.63	83.09	80.60	1.50	1.00	233.89	226.88
334.90	324.85	6.03	4.02	59.27	57.50	1.07	0.71	629.36	610.48
224.67	217.93	4.04	2.70	39.77	38.57	0.72	0.48		
1,552.83	1,506.25	27.95	18.63	274.84	266.59	4.95	3.30	1,014.59	984.15
1,268.13	1,230.09	22.83	15.22	224.45	217.71	4.04	2.69	1,476.29	1,432.00
2,455.26	2,381.61	44.19	29.46	434.56	421.52	7.82	5.21	2,416.27	2,343.78
1,291.82	1,253.06	23.25	15.50	228.64	221.78	4.12	2.74	1,309.78	1,270.48
1,134.28	1,100.25	20.42	13.61	200.76	194.73	3.61	2.41	1,216.78	1,180.28
1,476.83	1,432.53	26.58	17.72	261.39	253.55	4.70	3.14	1,731.76	1,679.81
1,926.97	1,869.16	34.69	23.12	341.06	330.82	6.14	4.09	2,214.68	2,148.24
1,681.14	1,630.70	30.26	20.17	297.55	288.62	5.36	3.57	1,880.98	1,824.55
828.73	803.87	14.92	9.94	146.68	142.28	2.64	1.76	557.53	540.80
507.81	492.57	9.14	6.09	89.88	87.18	1.62	1.08	3,050.04	2,958.53
2,487.75	2,413.12	44.78	29.85	440.31	427.10	7.93	5.28	2,283.93	2,215.41
2,000.19	1,940.18	36.00	24.00	354.02	343.40	6.37	4.25	2,475.33	2,401.07
2,553.50	2,476.89	45.96	30.64	451.95	438.39	8.14	5.42	2,553.50	2,476.89
2,480.15	2,405.75	44.64	29.76	438.97	425.80	7.90	5.27	2,601.35	2,523.31
2,207.75	2,141.52	39.74	26.49	390.75	379.03	7.03	4.69	313.33	303.93
974.81	945.57	17.55	11.70	172.53	167.36	3.11	2.07	494.13	479.30
524.38	508.65	9.44	6.29	92.81	90.03	1.67	1.11	439.16	425.99
546.02	529.64	9.83	6.55	96.64	93.74	1.74	1.16	302.42	293.35
478.88	464.51	8.62	5.75	84.76	82.21	1.53	1.02	178.33	172.98
337.01	326.90	6.07	4.04	59.65	57.86	1.07	0.72	1,153.38	1,118.78
865.67	839.70	15.58	10.39	153.22	148.62	2.76	1.84	285.42	276.86
413.37	400.97	7.44	4.96	73.16	70.97	1.32	0.88	247.21	239.80
215.81	209.34	3.88	2.59	38.20	37.05	0.69	0.46		

N.2-2

***Adjusted Baseline Typical Weekday Non-Event
Without Project Roadway Noise Levels***

**ROADWAY SEGMENT ADT - TYPICAL WEEKDAY NON-EVENT CONDITIONS
ADJUSTED BASELINE WITH ITC PROJECT**

STREET	Facility Type	Segment		Adjusted Baseline - ADT w/Project		
		From	To	NB/EB	SB/WB	Total
NORTH/SOUTH STREETS						
La Brea Av	Major Arterial	Hyde Park Bl	Florence Av	9,712	10,931	20,643
		Florence Av	Manchester Bl	11,810	12,510	24,320
		Manchester Bl	Spruce Av/Market St	9,410	9,814	19,224
		Spruce Av/Market St	Arbor Vitae St	11,283	13,012	24,295
		Arbor Vitae St	Hardy St	13,642	14,587	28,229
Hawthorne Bl	Major Arterial	Hardy St	Century Bl	14,134	15,372	29,506
		Century Bl	104th St	20,764	21,918	42,682
Prairie Av	Major Arterial	104th St	Lennox Bl	23,014	24,890	47,904
		Florence Av	Regent St	10,768	10,987	21,755
		Regent St	Manchester Bl	11,023	10,774	21,797
		Manchester Bl	Pincay Dr/Kelso St	13,592	14,697	28,289
		Pincay Dr/Kelso St	Arbor Vitae St	19,169	18,598	37,767
		Arbor Vitae St	Hardy St	15,845	15,181	31,026
		Hardy St	97th St	16,781	16,711	33,492
		97th St	Century Bl	16,781	16,711	33,492
Crenshaw Bl	Major Arterial	Century Bl	102nd St	15,170	15,449	30,619
		102nd St	104th St	15,347	15,792	31,139
		104th St	Lennox Bl	15,804	16,053	31,857
		80th St	Manchester Bl	11,375	12,048	23,423
		Manchester Bl	Pincay Dr/90th St	12,222	13,886	26,108
		Pincay Dr/90th St	Arbor Vitae St	14,752	17,004	31,756
		Arbor Vitae St	Hardy St	14,364	16,228	30,592
		Hardy St	Century Bl	14,810	16,575	31,385
Market St	Minor Arterial	Century Bl	104th St	12,947	14,301	27,248
		Florence Av	Regent St	1,510	1,688	3,198
Myrtle Av	Collector	Regent St	Manchester Bl	3,503	4,224	7,727
		Arbor Vitae St	Hardy St	1,538	2,017	3,555
Doty Av	Collector	Century Bl	104th St	2,758	2,695	5,453
Yukon Av	Collector	Century Bl	104th St	4,956	5,257	10,213
Locust St	Collector	Florence Av	Manchester Bl	1,840	1,851	3,691
EAST/WEST STREETS						
Centinela Av	Major Arterial	Hyde Park Bl	Florence Av	12,725	12,714	25,439
Florence Av	Major Arterial	Fir Av	La Brea Av	8,448	8,349	16,797
		La Brea Av	Market St	10,812	10,223	21,035
		Market St	Centinela Av	12,284	11,997	24,281
		Centinela Av	Prairie Av	20,241	20,225	40,466
		Prairie Ave	West Bl	19,936	19,921	39,857
Manchester Bl	Major Arterial	Grevillea Av	La Brea Av	10,349	10,606	20,955
		La Brea Av	Market St	10,403	10,670	21,073
		Market St	Locust St	9,028	9,152	18,180
		Locust St	Hillcrest Bl	9,644	9,923	19,567
		Hillcrest Bl	Spruce Av	11,913	11,960	23,873
		Spruce Av	Prairie Av	13,945	14,038	27,983
		Prairie Av	Kareem Ct	14,934	16,454	31,388
		Kareem Ct	Crenshaw Dr	17,672	18,434	36,106
		Crenshaw Dr	Crenshaw Bl	13,278	14,060	27,338
Arbor Vitae St	Major Arterial	Crenshaw Bl	Van Ness Av	14,711	16,024	30,735
		Grevillea Av	La Brea Av	6,280	6,948	13,228
		La Brea Av	Myrtle Av	4,513	4,400	8,913
Century Bl	Major Arterial	Myrtle Av	Prairie Av	3,887	4,139	8,026
		Grevillea Av	La Brea Av/Hawthorne Bl	25,229	24,903	50,132
		La Brea Av/Hawthorne Bl	Myrtle Av	20,601	20,266	40,867
		Myrtle Av	Freeman Av	19,251	18,402	37,653
		Freeman Av	Prairie Av	16,743	16,199	32,942
		Prairie Av	Doty Av	20,214	20,025	40,239
		Doty Av	HP Casino Dr	21,018	20,504	41,522
		HP Casino Dr	Yukon Av	21,018	20,504	41,522
		Yukon Av	Club Dr	20,023	20,260	40,283
Regent St	Collector	Club Dr	Crenshaw Bl	21,124	21,110	42,234
		Crenshaw Bl	Van Ness Av	18,243	17,797	36,040
		Grevillea Av	La Brea Av	2,636	2,485	5,121
Hillcrest Bl	Collector	La Brea Av	Market St	8,099	7,886	15,985
		Market St	Prairie Ave	3,861	4,232	8,093
		Grevillea Av	La Brea Av	4,220	4,342	8,562
		La Brea Av	Market St	3,760	3,387	7,147
		Market St	Nutwood St / Locust St	4,324	4,323	8,647
Spruce Av	Collector	Nutwood St / Locust St	Manchester Bl	2,288	2,419	4,707
		Manchester Bl	Florence Av	3,719	3,917	7,636
		La Brea Av	Manchester Av	1,057	1,411	2,468
Kelso St / Pincay Dr	Collector	Spruce Av	Prairie Av	2,521	2,835	5,356
		Prairie Av	Kareem Ct	10,140	8,606	18,746
		Kareem Ct	Crenshaw Bl	7,402	6,626	14,028
Hardy St	Collector	La Brea Av	Prairie Ave	1,854	1,952	3,806
104th St	Collector	Grevillea Av	Hawthorne Bl	3,540	3,246	6,786
		Hawthorne Bl	Prairie Ave	1,919	2,181	4,100
		Prairie Av	Doty Av	1,817	1,684	3,501

**TABLE 8
ROADWAY SEGMENT ADT - WEEKDAY NFL GAME EVENT CONDITIONS
FUTURE (2026) WITH ITC PROJECT**

STREET	Facility Type	Segment		Future (2026) ADT w/Project			NFL Event ADT w/Project			Future (2026) + NFL Event ADT w/Project		
		From	To	NB/EB	SB/WB	Total	NB/EB	SB/WB	Total	NB/EB	SB/WB	Total
NORTH/SOUTH STREETS												
La Brea Av	Major Arterial	Hyde Park Bl	Florence Av	12,958	12,707	25,665	70	69	139	13,028	12,776	25,804
		Florence Av	Manchester Bl	15,152	14,372	29,524	279	165	444	15,431	14,537	29,968
		Manchester Bl	Spruce Av/Market St	12,977	11,930	24,907	116	114	230	13,093	12,044	25,137
		Spruce Av/Market St	Arbor Vitae St	16,225	16,830	33,055	297	295	592	16,522	17,125	33,647
		Arbor Vitae St	Hardy St	15,943	15,961	31,904	434	387	821	16,377	16,348	32,725
		Hardy St	Century Bl	17,575	18,022	35,597	515	468	983	18,090	18,490	36,580
Hawthorne Bl	Major Arterial	Century Bl	104th St	26,413	26,551	52,964	375	271	646	26,788	26,822	53,610
		104th St	Lennox Bl	28,504	29,804	58,308	375	271	646	28,879	30,075	58,954
Prairie Av	Major Arterial	Florence Av	Regent St	11,119	13,159	24,278	230	759	989	11,349	13,918	25,267
		Regent St	Manchester Bl	11,093	12,467	23,560	230	759	989	11,323	13,226	24,549
		Manchester Bl	Pincay Dr/Kelso St	15,771	18,117	33,888	2,070	1,651	3,721	17,841	19,768	37,609
		Pincay Dr/Kelso St	Arbor Vitae St	18,890	19,892	38,782	1,400	852	2,252	20,290	20,744	41,034
		Arbor Vitae St	Hardy St	16,810	17,413	34,223	1,294	913	2,207	18,104	18,326	36,430
		Hardy St	97th St	19,517	20,827	40,344	2,534	2,031	4,565	22,051	22,858	44,909
		97th St	Century Bl	19,517	20,827	40,344	2,534	2,032	4,566	22,051	22,859	44,910
		Century Bl	102nd St	16,344	18,308	34,652	4,171	1,864	6,035	20,515	20,172	40,687
Crenshaw Bl	Major Arterial	102nd St	104th St	16,105	18,350	34,455	4,883	2,521	7,404	20,988	20,871	41,859
		104th St	Lennox Bl	16,284	18,353	34,637	4,883	2,521	7,404	21,167	20,874	42,041
		80th St	Manchester Bl	13,111	14,043	27,154	463	1,335	1,798	13,574	15,378	28,952
		Manchester Bl	Pincay Dr/90th St	13,935	16,063	29,998	1,021	3,836	4,857	14,956	19,899	34,855
		Pincay Dr/90th St	Arbor Vitae St	17,227	20,013	37,240	3,536	3,282	6,818	20,763	23,295	44,058
		Arbor Vitae St	Hardy St	16,651	18,848	35,499	3,535	3,282	6,817	20,186	22,130	42,316
Market St	Minor Arterial	Hardy St	Century Bl	17,355	19,434	36,789	3,535	3,282	6,817	20,890	22,716	43,606
		Century Bl	104th St	15,518	17,487	33,005	3,229	4,048	7,277	18,747	21,535	40,282
Myrtle Av	Collector	Florence Av	Regent St	2,232	2,263	4,495	0	0	0	2,232	2,263	4,495
		Regent St	Manchester Bl	4,149	5,087	9,236	0	0	0	4,149	5,087	9,236
Doty Av	Collector	Arbor Vitae St	Hardy St	1,965	2,296	4,261	0	0	0	1,965	2,296	4,261
Yukon Av	Collector	Century Bl	104th St	4,718	4,996	9,714	92	92	184	4,810	5,088	9,898
Locust St	Collector	Century Bl	104th St	5,954	5,505	11,459	66	66	132	6,020	5,571	11,591
		Florence Av	Manchester Bl	2,479	2,505	4,984	278	278	556	2,757	2,783	5,540
EAST/WEST STREETS												
Centinela Av	Major Arterial	Hyde Park Bl	Florence Av	14,200	13,990	28,190	70	27	97	14,270	14,017	28,287
Florence Av	Major Arterial	Fir Av	La Brea Av	9,762	9,467	19,229	1,800	370	2,170	11,562	9,837	21,399
		La Brea Av	Market St	13,122	10,553	23,675	1,827	397	2,224	14,949	10,950	25,899
		Market St	Centinela Av	15,741	13,448	29,189	1,852	422	2,274	17,593	13,870	31,463
		Centinela Av	Prairie Av	23,525	21,622	45,147	1,879	492	2,371	25,404	22,114	47,518
		Prairie Ave	West Bl	22,992	22,891	45,883	1,134	275	1,409	24,126	23,166	47,292
Manchester Bl	Major Arterial	Grevillea Av	La Brea Av	12,011	12,184	24,195	1,690	3,231	4,921	13,701	15,415	29,116
		La Brea Av	Market St	12,011	12,113	24,124	1,628	3,281	4,909	13,639	15,394	29,033
		Market St	Locust St	9,316	9,347	18,663	1,628	3,281	4,909	10,944	12,628	23,572
		Locust St	Hillcrest Bl	11,352	11,628	22,980	1,507	3,160	4,667	12,859	14,788	27,647
		Hillcrest Bl	Spruce Av	14,596	14,888	29,484	1,507	3,160	4,667	16,103	18,048	34,151
		Spruce Av	Prairie Av	16,609	16,924	33,533	1,507	3,160	4,667	18,116	20,084	38,200
		Prairie Av	Kareem Ct	17,388	18,437	35,825	1,260	2,266	3,526	18,648	20,703	39,351
		Kareem Ct	Crenshaw Dr	22,545	22,460	45,005	3,098	608	3,706	25,643	23,068	48,711
		Crenshaw Dr	Crenshaw Bl	16,084	16,542	32,626	3,108	618	3,726	19,192	17,160	36,352
Arbor Vitae St	Major Arterial	Crenshaw Bl	Van Ness Av	17,069	18,183	35,252	2,248	1,702	3,950	19,317	19,885	39,202
		Grevillea Av	La Brea Av	7,569	8,102	15,671	15	15	30	7,584	8,117	15,701
		La Brea Av	Myrtle Av	6,667	6,619	13,286	331	286	617	6,998	6,905	13,903
Century Bl	Major Arterial	Myrtle Av	Prairie Av	5,458	5,944	11,402	331	286	617	5,789	6,230	12,019
		Grevillea Av	La Brea Av/Hawthorne Bl	30,242	30,334	60,576	3,178	3,639	6,817	33,420	33,973	67,393
		La Brea Av/Hawthorne Bl	Myrtle Av	24,484	24,269	48,753	3,076	3,480	6,556	27,560	27,749	55,309
		Myrtle Av	Freeman Av	23,518	22,598	46,116	3,076	3,480	6,556	26,594	26,078	52,672
		Freeman Av	Prairie Av	20,850	20,584	41,434	3,076	3,480	6,556	23,926	24,064	47,990
		Prairie Av	Doty Av	25,193	25,587	50,780	3,453	2,061	5,514	28,646	27,648	56,294
		Doty Av	HP Casino Dr	25,030	25,403	50,433	3,360	1,969	5,329	28,390	27,372	55,762
		HP Casino Dr	Yukon Av	24,879	25,792	50,671	3,360	1,969	5,329	28,239	27,761	56,000
		Yukon Av	Club Dr	23,413	23,748	47,161	3,348	1,956	5,304	26,761	25,704	52,465
		Club Dr	Crenshaw Bl	24,570	24,237	48,807	3,349	1,957	5,306	27,919	26,194	54,113
Regent St	Collector	Crenshaw Bl	Van Ness Av	21,154	20,687	41,841	1,848	1,528	3,376	23,002	22,215	45,217
		Grevillea Av	La Brea Av	3,791	3,604	7,395	0	0	0	3,791	3,604	7,395
		La Brea Av	Market St	9,382	9,246	18,628	0	0	0	9,382	9,246	18,628
Hillcrest Bl	Collector	Market St	Prairie Ave	4,210	4,868	9,078	0	0	0	4,210	4,868	9,078
		Grevillea Av	La Brea Av	5,429	5,768	11,197	0	0	0	5,429	5,768	11,197
		La Brea Av	Market St	4,600	4,309	8,909	0	0	0	4,600	4,309	8,909
		Market St	Nutwood St / Locust St	4,962	5,374	10,336	181	181	362	5,143	5,555	10,698
		Nutwood St / Locust St	Manchester Bl	2,898	3,363	6,261	0	0	0	2,898	3,363	6,261
Spruce Av	Collector	Manchester Bl	Florence Av	4,782	5,129	9,911	0	0	0	4,782	5,129	9,911
		La Brea Av	Manchester Av	3,592	3,933	7,525	0	0	0	3,592	3,933	7,525
Kelso St / Pincay Dr	Collector	Spruce Av	Prairie Av	3,407	3,534	6,941	0	0	0	3,407	3,534	6,941
		Prairie Av	Kareem Ct	11,865	10,632	22,497	928	799	1,727	12,793	11,431	24,224
		Kareem Ct	Crenshaw Bl	9,599	8,732	18,331	2,649	5,716	8,365	12,248	14,448	26,696
Hardy St	Collector	La Brea Av	Prairie Ave	3,168	3,191	6,359	0	0	0	3,168	3,191	6,359
104th St	Collector	La Brea Av	Hawthorne Bl	4,469	3,785	8,254	0	0	0	4,469	3,785	8,254
		Hawthorne Bl	Prairie Ave	2,487	2,653	5,140	0	0	0	2,487	2,653	5,140
		Prairie Av	Doty Av	3,500	3,210	6,710	0	0	0	3,500	3,210	6,710

TABLE 5 update
ROADWAY SEGMENT ADT - WEEKDAY NFL GAME EVENT CONDITIONS
FUTURE (2045) WITHOUT ITC PROJECT

STREET	Facility Type	Segment		Future (2045) ADT w/o Project			NFL Event ADT w/o Project			Future (2045) + NFL Event ADT w/o Project			NB	SB	Total	Daytime	MT	HT	Total	Nighttime	MT	HT		
		From	To	NB/EB	SB/WB	Total	NB/EB	SB/WB	Total	NB/EB	SB/WB	Total												
NORTH/SOUTH STREETS																								
La Brea Av	Major Arterial	Hyde Park Bl	Florence Av	15,053	14,654	29,707	77	77	154	15,130	14,731	29,861	911.835	161.387	887.7883	157.1307	1,799.62	1,745.63	32.39	21.60	318.52	308.96	5.73	3.82
		Florence Av	Manchester Bl	17,317	16,112	33,429	311	184	495	17,628	16,296	33,924	1062.38	188.032	982.1056	173.824	2,044.49	1,983.15	36.80	24.53	361.86	351.00	6.51	4.34
		Manchester Bl	Spruce Av/Market St	15,066	13,746	28,812	128	128	256	15,194	13,874	29,068	915.692	162.069	836.1397	147.9893	1,751.83	1,699.28	31.53	21.02	310.06	300.76	5.58	3.72
		Spruce Av/Market St	Arbor Vitae St	19,159	19,952	39,111	328	328	656	19,487	20,280	39,767	1174.42	207.861	1222.208	216.32	2,396.62	2,324.73	43.14	28.76	424.18	411.46	7.64	5.09
		Arbor Vitae St	Hardy St	19,222	19,211	38,433	485	434	919	19,707	19,645	39,352	1187.68	210.208	1183.939	209.5467	2,371.61	2,300.47	42.69	28.46	419.75	407.16	7.56	5.04
Hawthorne Bl	Major Arterial	Century Bl	104th St	31,632	32,659	64,291	505	303	808	32,137	32,962	65,099	1936.79	342.795	1986.51	351.5947	3,923.30	3,805.60	70.62	47.08	694.39	673.56	12.50	8.33
		104th St	Lennox Bl	34,144	36,592	70,736	505	303	808	34,649	36,895	71,544	2088.18	369.589	2223.539	393.5467	4,311.72	4,182.37	77.61	51.74	763.14	740.24	13.74	9.16
Prairie Av	Major Arterial	Florence Av	Regent St	12,754	15,183	27,937	343	923	1,266	13,097	16,106	29,203	789.313	139.701	970.6549	171.7973	1,759.97	1,707.17	31.68	21.12	311.50	302.15	5.61	3.74
		Regent St	Manchester Bl	12,087	13,738	25,825	343	923	1,266	12,430	14,661	27,091	749.115	132.587	883.5696	156.384	1,632.68	1,583.70	29.39	19.59	288.97	280.30	5.20	3.47
		Manchester Bl	Pincay Dr/Kelso St	18,848	22,021	40,869	2,415	1,804	4,219	21,263	23,825	45,088	1281.45	226.805	1435.853	254.1333	2,717.30	2,635.78	48.91	32.61	480.94	466.51	8.66	5.77
		Pincay Dr/Kelso St	Arbor Vitae St	21,556	23,612	45,168	1,565	903	2,468	23,121	24,515	47,636	1393.43	246.624	1477.437	261.4933	2,870.86	2,784.74	51.68	34.45	508.12	492.87	9.15	6.10
		Arbor Vitae St	Hardy St	20,530	21,506	42,036	1,445	1,053	2,498	21,975	22,559	44,534	1324.36	234.4	1359.556	240.6293	2,683.92	2,603.40	48.31	32.21	475.03	460.78	8.55	5.70
		Hardy St	97th St	22,677	24,418	47,095	2,795	2,184	4,979	25,472	26,602	52,074	1535.11	271.701	1603.214	283.7547	3,138.33	3,044.18	56.49	37.66	555.46	538.79	10.00	6.67
		97th St	Century Bl	22,677	24,418	47,095	2,795	2,184	4,979	25,472	26,602	52,074	1535.11	271.701	1603.214	283.7547	3,138.33	3,044.18	56.49	37.66	555.46	538.79	10.00	6.67
		Century Bl	102nd St	19,551	21,775	41,326	4,557	2,077	6,634	24,108	23,852	47,960	1452.91	257.152	1437.481	254.4213	2,890.39	2,803.68	52.03	34.68	511.57	496.23	9.21	6.14
		102nd St	104th St	19,315	22,010	41,325	5,360	2,816	8,176	24,675	24,826	49,501	1487.08	263.2	1496.18	264.8107	2,983.26	2,893.76	53.70	35.80	528.01	512.17	9.50	6.34
		104th St	Lennox Bl	19,154	21,632	40,786	5,360	2,817	8,177	24,514	24,449	48,963	1477.38	261.483	1473.46	260.7893	2,950.84	2,862.31	53.12	35.41	522.27	506.60	9.40	6.27
Crenshaw Bl	Major Arterial	80th St	Manchester Bl	15,237	16,421	31,658	521	1,392	1,913	15,758	17,813	33,571	949.682	168.085	1073.53	190.0053	2,023.21	1,962.52	36.42	24.28	358.09	347.35	6.45	4.30
		Manchester Bl	Pincay Dr/90th St	16,146	18,597	34,743	1,152	4,042	5,194	17,298	22,639	39,937	1042.49	184.512	1364.377	241.4827	2,406.87	2,334.66	43.32	28.88	425.99	413.21	7.67	5.11
		Pincay Dr/90th St	Arbor Vitae St	20,501	23,920	44,421	3,783	3,613	7,396	24,284	27,533	51,817	1463.52	259.029	1659.322	293.6853	3,122.84	3,029.15	56.21	37.47	552.71	536.13	9.95	6.63
		Arbor Vitae St	Hardy St	19,597	22,175	41,772	3,783	3,613	7,396	23,380	25,788	49,168	1409.03	249.387	1554.157	275.072	2,963.19	2,874.30	53.34	35.56	524.46	508.72	9.44	6.29
		Hardy St	Century Bl	20,381	22,676	43,057	3,783	3,613	7,396	24,164	26,289	50,453	1456.28	257.749	1584.35	280.416	3,040.63	2,949.42	54.73	36.49	538.17	522.02	9.69	6.46
		Century Bl	104th St	18,280	20,578	38,858	3,536	4,476	8,012	21,816	25,054	46,870	1314.78	232.704	1509.921	267.2427	2,824.70	2,739.96	50.84	33.90	499.95	484.95	9.00	6.00
Market St	Minor Arterial	Florence Av	Regent St	2,874	2,776	5,650	0	0	0	2,874	2,776	5,650	173.206	30.656	167.3003	29.61067	340.51	330.29	6.13	4.09	60.27	58.46	1.08	0.72
		Regent St	Manchester Bl	4,781	5,909	10,690	0	0	0	4,781	5,909	10,690	288.135	50.9973	356.1157	63.02933	644.25	624.92	11.60	7.73	114.03	110.61	2.05	1.37
Myrtle Av	Collector	Arbor Vitae St	Hardy St	2,881	3,218	6,099	0	0	0	2,881	3,218	6,099	173.628	30.7307	193.9381	34.32533	367.57	356.54	6.62	4.41	65.06	63.10	1.17	0.78
Doty Av	Collector	Century Bl	104th St	5,196	5,585	10,781	104	104	208	5,300	5,689	10,989	319.413	56.5333	342.8571	60.68267	662.27	642.40	11.92	7.95	117.22	113.70	2.11	1.41
Yukon Av	Collector	Century Bl	104th St	6,572	6,101	12,673	75	75	150	6,647	6,176	12,823	400.593	70.9013	372.2069	65.87733	772.80	749.62	13.91	9.27	136.78	132.68	2.46	1.64
Locust St	Collector	Florence Av	Manchester Bl	2,918	3,054	5,972	310	310	620	3,228	3,364	6,592	194.541	34.432	202.7371	35.88267	397.28	385.36	7.15	4.77	70.31	68.21	1.27	0.84
EAST/WEST STREETS																								
Centinel Av	Major Arterial	Hyde Park Bl	Florence Av	16,403	15,912	32,315	79	30	109	16,482	15,942	32,424	993.315	175.808	960.7712	170.048	1,954.09	1,895.46	35.17	23.45	345.86	335.48	6.23	4.15
Florence Av	Major Arterial	Fir Av	La Brea Av	12,095	11,894	23,989	1,917	416	2,333	14,012	12,310	26,322	844.457	149.461	741.8827	131.3067	1,586.34	1,538.75	28.55	19.04	280.77	272.34	5.05	3.37
		La Brea Av	Market St	15,953	12,913	28,866	1,948	447	2,395	17,901	13,360	31,261	1078.83	190.944	805.1627	142.5067	1,884.00	1,827.48	33.91	22.61	333.45	323.45	6.00	4.00
		Market St	Centinel Av	19,027	16,342	35,369	2,060	559	2,619	21,087	16,901	37,988	1270.84	224.928	1018.567	180.2773	2,289.41	2,220.73	41.21	27.47	405.21	393.05	7.29	4.86
		Centinel Av	Prairie Av	27,403	25,029	52,432	2,090	638	2,728	29,493	25,667	55,160	1777.44	314.592	1546.865	273.7813	3,324.31	3,224.58	59.84	39.89	588.37	570.72	10.59	7.06
		Prairie Ave	West Bl	26,967	26,795	53,762	1,167	295	1,462	28,134	27,090	55,224	1695.54	300.096	1632.624	288.96	3,328.17	3,228.32	59.91	39.94	589.06	571.38	10.60	7.07
Manchester Bl	Major Arterial	Grevillea Av	La Brea Av	13,742	13,859	27,601	1,877	3,453	5,330	15,619	17,312	32,931	941.305	166.603	1043.337	184.6613	1,984.64	1,925.10	35.72	23.82	351.26	340.73	6.32	4.22
		La Brea Av	Market St	13,660	13,794	27,454	1,807	3,510	5,317	15,467	17,304	32,771	932.145	164.981	1042.854	184.576	1,975.00	1,915.75	35.55	23.70	349.56	339.07	6.29	4.19
		Market St	Locust St	10,721	10,626	21,347	1,807	3,510	5,317	12,528	14,136	26,664	755.021	133.632	851.9296	150.784	1,606.95	1,558.74	28.93	19.28	284.42	275.88	5.12	3.41
		Locust St	Hillcrest Bl	13,200	13,306	26,506	1,671	3,374	5,045	14,871	16,680	31,551	896.226	158.624	1005.248	177.92	1,901.47	1,844.43	34.23	22.82	336.54	326.45	6.06	4.04
		Hillcrest Bl	Spruce Av	17,489	17,361	34,850	1,671	3,374	5,045	19,160	20,735	39,895	1154.71	204.373	1249.629	221.1733	2,404.34	2,332.21	43.28	28.85	425.55	412.78	7.66	5.11
		Spruce Av	Prairie Av	19,464	19,861	39,325	1,671	3,374	5,045	21,135	23,235	44,370	1273.74	225.44	1400.296	247.84	2,674.03	2,593.81	48.13	32.09	473.28	459.08	8.52	5.68
		Prairie Av	Kareem Ct	20,227	21,841	42,068	1,421	2,269	3,690	21,648	24,110	45,758	1304.65	230.912	1435.029	257.1733	2,757.68	2,674.95	49.64	33.09	488.09	473.44	8.79	5.86
		Kareem Ct	Crenshaw Dr	27,215	26,912	54,127	3,282	681	3,963	30,497	27,593	58,090	1837.95											

Adjusted Baseline Typical Weekday Non-Event Without Proposed Project

Adjusted baseline roadway noise levels during the daytime ranged from a low of 55.8 dBA along Market Street from Florence Avenue to Regent Street to a high of 72.5 dBA along Century Boulevard between Grevillea Avenue and La Brea Avenue/Hawthorne Boulevard. Additionally, nighttime roadway noise levels ranged from a low of 48.2 along Market Street from Florence Avenue to Regent Street to a high of 64.3 dBA along Century Boulevard from Club Drive to Crenshaw Boulevard.

Table 1
Adjusted Baseline Typical Weekday Non-Event Roadway Noise Levels Without Proposed Project

Street	Segment		Noise Level (dBA)	
	From	To	Daytime	Nighttime
<i>North/South</i>				
La Brea Avenue	Hyde Park Boulevard (Beech Avenue)	Florence Avenue	67.1	59.6
	Florence Avenue	Manchester Boulevard	67.8	60.3
	Manchester Boulevard	Spruce Avenue/ Market Street	66.7	59.2
	Spruce Avenue/Market Street	Arbor Vitae Street	67.8	60.3
	Arbor Vitae Street	Hardy Street	68.5	60.9
Hawthorne Boulevard	Hardy Street	Century Boulevard	68.6	61.1
	Century Boulevard	104 th Street	70.2	62.7
Prairie Avenue	104 th Street	Lennox Boulevard	70.7	63.2
	Florence Avenue	Regent Street	68.9	61.4
	Regent Street	Manchester Boulevard	69.0	61.5
	Manchester Boulevard	Kelso St/Pincay Drive	70.1	62.6
	Kelso St/Pincay Drive	Arbor Vitae Street	71.4	63.9
	Arbor Vitae Street	Hardy Street	70.6	63.1
	Hardy Street	97 th Street	70.9	63.4
	97 th Street	Century Boulevard	70.9	63.4
	Century Boulevard	102 nd Street	70.4	63.0
Crenshaw Boulevard	102 nd Street	104 th Street	70.5	62.9
	104 th Street	Lennox Boulevard	70.6	63.1
	80 th Street	Manchester Boulevard	69.2	61.7
	Manchester Boulevard	Pincay Drive/90 th Street	69.6	62.1
	Pincay Drive/90 th Street	Arbor Vitae Street	70.5	63.0
Market Street	Hardy Street	Century Boulevard	70.5	62.9
	Century Boulevard	104 th Street	69.8	62.3
	Florence Avenue	Regent Street	55.8	48.2
	Regent Street	Manchester Boulevard	59.6	52.0

Street	Segment		Noise Level (dBA)	
	From	To	Daytime	Nighttime
Myrtle Avenue	Arbor Vitae Street	Hardy Street	59.8	52.3
Doty Avenue	Century Boulevard	104 th Street	58.1	50.6
Yukon Avenue	Century Boulevard	104 th Street	62.4	54.9
Locust Street	Florence Avenue	Manchester Boulevard	56.4	48.8
East/West				
Centinela Avenue	Hyde Park Boulevard	Florence Avenue	68.0	60.5
Florence Avenue	Fir Avenue	La Brea Avenue	67.7	60.2
	La Brea Avenue	Market Street	68.7	61.2
	Market Street	Centinela Avenue	69.3	61.8
	Centinela Avenue	Prairie Avenue	71.5	64.0
	Prairie Avenue	West Boulevard	71.5	64.0
Manchester Boulevard	Grevillea Avenue	La Brea Avenue	67.2	59.6
	La Brea Avenue	Market Street	67.2	59.7
	Market Street	Locust Street	66.6	59.1
	Locust Street	Hillcrest Boulevard	66.9	59.4
	Hillcrest Boulevard	Spruce Avenue	67.7	60.2
	Spruce Avenue	Prairie Avenue	68.4	60.9
	Prairie Avenue	Kareem Court	70.5	63.0
	Kareem Court	Crenshaw Drive	71.1	63.6
	Crenshaw Drive	Crenshaw Boulevard	69.9	62.4
Crenshaw Boulevard	Van Ness Avenue	70.4	62.9	
Arbor Vitae Street	Grevillea Avenue	La Brea Avenue	65.2	57.7
	La Brea Avenue	Myrtle Avenue	63.5	56.0
	Myrtle Avenue	Prairie Avenue	63.1	55.6
Century Boulevard	Grevillea Avenue	La Brea Avenue/Hawthorne Boulevard	72.5	65.0
	La Brea Avenue/Hawthorne Boulevard	Myrtle Avenue	71.6	64.1
	Myrtle Avenue	Freeman Avenue	71.2	63.7
	Freeman Avenue	Prairie Avenue	70.7	63.1
	Prairie Avenue	Doty Avenue	71.6	64.1
	Doty Avenue	HP Casino Way	71.7	64.2
	HP Casino Way	Yukon Avenue	71.7	64.2
	Yukon Avenue	Club Drive	71.6	64.1
	Club Drive	Crenshaw Boulevard	71.8	64.3
Crenshaw Boulevard	Van Ness Avenue	71.1	63.6	
Regent Street	Grevillea Avenue	La Brea Avenue	61.1	53.6
	La Brea Avenue	Market Street	66.0	58.5
	Market Street	Prairie Avenue	63.0	55.5

Street	Segment		Noise Level (dBA)	
	From	To	Daytime	Nighttime
Hillcrest Boulevard	Grevillea Avenue	La Brea Avenue	63.3	55.8
	La Brea Avenue	Market Street	62.5	55.0
	Market Street	Nutwood Street /Locust Street	63.6	56.0
	Nutwood Street /Locust Street	Manchester Boulevard	60.9	53.3
	Manchester Boulevard	Florence Avenue	63.0	55.5
Spruce Avenue	La Brea Avenue	Manchester Avenue	58.6	51.1
Kelso Street/Pincay Drive	Spruce Avenue	Prairie Avenue	63.0	55.4
	Prairie Avenue	Kareem Court	69.8	62.2
	Kareem Court	Crenshaw Boulevard	68.5	61.0
Hardy Street	La Brea Avenue	Prairie Avenue	57.4	49.9
104 th Street	Grevillea Avenue	Hawthorne Boulevard	63.8	56.3
	Hawthorne Boulevard	Prairie Avenue	61.6	54.1
	Prairie Avenue	Doty Avenue	61.0	53.5

Source: Refer to **Appendix 4.10-2.2** for adjusted baseline roadway noise levels

Adjusted Baseline Typical Weekday Non-Event With Proposed Project

As shown, roadway noise levels increase along analyzed roadways during both the daytime (7:00 AM to 10:00 PM) and nighttime (10:00 PM to 7:00 AM) periods would be negligible and would not exceed the 3 dBA Leq increase significance thresholds during both daytime and nighttime periods. Impacts of the proposed Project related to traffic generated noise for the Adjusted Baseline Weekday Non-Event for the proposed Project would be less than significant.

Table 2
Adjusted Baseline Typical Weekday Non-Event With Proposed Project

Street	Segment		Time Period	Noise Level (dBA)			Significant Impact?
	From	To		Without Project	With Project	Increase/Decrease	
North/South							
La Brea Avenue	Hyde Park Boulevard (Beech Avenue)	Florence Avenue	Daytime	67.1	67.0	-0.1	No
			Nighttime	59.6	59.5	-0.1	No
	Florence Avenue	Manchester Boulevard	Daytime	67.8	67.7	-0.1	No
			Nighttime	60.3	60.2	-0.1	No
	Manchester Boulevard	Spruce Avenue/Market Street	Daytime	66.7	66.7	0.0	No
			Nighttime	59.2	59.2	0.0	No

Street	Segment		Time Period	Noise Level (dBA)			Significant Impact?
	From	To		Without Project	With Project	Increase/Decrease	
	Spruce Avenue/Market Street	Arbor Vitae Street	Daytime	67.8	67.7	-0.1	No
			Nighttime	60.3	60.2	-0.1	No
	Arbor Vitae Street	Hardy Street	Daytime	68.5	68.4	-0.1	No
			Nighttime	60.9	60.8	-0.1	No
	Hardy Street	Century Boulevard	Daytime	68.6	68.5	-0.1	No
			Nighttime	61.1	61.0	-0.1	No
Hawthorne Boulevard	Century Boulevard	104 th Street	Daytime	70.2	70.2	0.0	No
			Nighttime	62.7	62.6	-0.1	No
	104 th Street	Lennox Boulevard	Daytime	70.7	70.7	0.0	No
			Nighttime	63.2	63.1	-0.1	No
Prairie Avenue	Florence Avenue	Regent Street	Daytime	68.9	68.8	-0.1	No
			Nighttime	61.4	61.3	-0.1	No
	Regent Street	Manchester Boulevard	Daytime	69.0	68.8	-0.2	No
			Nighttime	61.5	61.3	-0.2	No
	Manchester Boulevard	Kelso St/Pincay Drive	Daytime	70.1	70.0	-0.1	No
			Nighttime	62.6	62.4	-0.2	No
	Kelso St/Pincay Drive	Arbor Vitae Street	Daytime	71.4	71.2	-0.2	No
			Nighttime	63.9	63.7	-0.2	No
	Arbor Vitae Street	Hardy Street	Daytime	70.6	70.4	-0.2	No
			Nighttime	63.1	62.8	-0.3	No
	Hardy Street	97 th Street	Daytime	70.9	70.7	-0.2	No
			Nighttime	63.4	63.2	-0.2	No
	97 th Street	Century Boulevard	Daytime	70.9	70.7	-0.2	No
			Nighttime	63.4	63.2	-0.2	No
Century Boulevard	102 nd Street	Daytime	70.4	70.3	-0.1	No	
		Nighttime	62.9	62.8	-0.1	No	
102 nd Street	104 th Street	Daytime	70.5	70.4	-0.1	No	
		Nighttime	63.0	62.9	-0.1	No	
104 th Street	Lennox Boulevard	Daytime	70.6	70.5	-0.1	No	
		Nighttime	63.1	63.0	-0.1	No	
Crenshaw Boulevard	80 th Street	Manchester Boulevard	Daytime	69.2	69.1	-0.1	No
			Nighttime	61.7	61.6	-0.1	No
	Manchester Boulevard	Pincay Drive/90 th Street	Daytime	69.6	69.6	0.0	No
			Nighttime	62.1	62.1	0.0	No
	Pincay Drive/90 th Street	Arbor Vitae Street	Daytime	70.5	70.5	0.0	No
			Nighttime	63.0	62.9	-0.1	No
Hardy Street		Daytime	70.5	70.4	-0.1	No	

Street	Segment		Time Period	Noise Level (dBA)			Significant Impact?
	From	To		Without Project	With Project	Increase/Decrease	
		Century Boulevard	Nighttime	62.9	62.9	0.0	No
	Century Boulevard	104 th Street	Daytime	69.8	69.8	0.0	No
Market Street	Florence Avenue	Regent Street	Daytime	55.8	55.7	-0.1	No
			Nighttime	48.2	48.1	-0.1	No
	Regent Street	Manchester Boulevard	Daytime	59.6	59.5	-0.1	No
			Nighttime	52.1	52.0	-0.1	No
Myrtle Avenue	Arbor Vitae Street	Hardy Street	Daytime	59.8	59.4	-0.4	No
			Nighttime	52.3	51.9	-0.3	No
Doty Avenue	Century Boulevard	104 th Street	Daytime	58.1	58.0	-0.1	No
			Nighttime	50.6	50.5	-0.1	No
Yukon Avenue	Century Boulevard	104 th Street	Daytime	62.4	62.3	-0.1	No
			Nighttime	54.9	54.8	-0.1	No
Locust Street	Florence Avenue	Manchester Boulevard	Daytime	56.4	56.3	-0.1	No
			Nighttime	48.8	48.8	0.0	No
East/West							
Centinela Avenue	Hyde Park Boulevard	Florence Avenue	Daytime	68.0	67.9	-0.1	No
			Nighttime	60.5	60.4	-0.1	No
Florence Avenue	Fir Avenue	La Brea Avenue	Daytime	67.7	67.7	0.0	No
			Nighttime	60.2	60.2	0.0	No
	La Brea Avenue	Market Street	Daytime	68.7	68.7	0.0	No
			Nighttime	61.2	61.2	0.0	No
	Market Street	Centinela Avenue	Daytime	69.3	69.3	0.0	No
			Nighttime	61.8	61.8	0.0	No
Prairie Avenue	Centinela Avenue	Prairie Avenue	Daytime	71.5	71.5	0.0	No
			Nighttime	64.0	64.0	0.0	No
Prairie Avenue	West Boulevard		Daytime	71.5	71.4	-0.1	No
			Nighttime	64.0	63.9	-0.1	No
Manchester Boulevard	Grevillea Avenue	La Brea Avenue	Daytime	67.2	67.1	-0.1	No
			Nighttime	59.6	59.5	-0.1	No
	La Brea Avenue	Market Street	Daytime	67.2	67.1	-0.1	No
			Nighttime	59.7	59.6	-0.1	No
	Market Street	Locust Street	Daytime	66.6	66.4	-0.2	No
			Nighttime	59.1	58.9	-0.2	No
	Locust Street	Hillcrest Boulevard	Daytime	66.9	66.8	-0.1	No
			Nighttime	59.4	59.2	-0.2	No
	Hillcrest Boulevard	Spruce Avenue	Daytime	67.7	67.6	-0.1	No
			Nighttime	60.2	60.1	-0.1	No

Street	Segment		Time Period	Noise Level (dBA)			Significant Impact?	
	From	To		Without Project	With Project	Increase/Decrease		
	Spruce Avenue	Prairie Avenue	Daytime	68.4	68.3	-0.1	No	
			Nighttime	60.9	60.8	-0.1	No	
	Prairie Avenue	Kareem Court	Daytime	70.5	70.4	-0.1	No	
			Nighttime	63.0	62.9	-0.1	No	
	Kareem Court	Crenshaw Drive	Daytime	71.1	71.0	-0.1	No	
			Nighttime	63.6	63.5	-0.1	No	
	Crenshaw Drive	Crenshaw Boulevard	Daytime	69.9	69.8	-0.1	No	
			Nighttime	62.4	62.3	-0.1	No	
	Crenshaw Boulevard	Van Ness Avenue	Daytime	70.4	70.3	-0.1	No	
			Nighttime	62.9	62.8	-0.1	No	
	Arbor Vitae Street	Grevillea Avenue	La Brea Avenue	Daytime	65.2	65.1	-0.2	No
				Nighttime	57.7	57.5	-0.2	No
		La Brea Avenue	Myrtle Avenue	Daytime	63.5	63.3	-0.2	No
				Nighttime	56.0	55.8	-0.2	No
Myrtle Avenue		Prairie Avenue	Daytime	63.1	62.9	-0.2	No	
			Nighttime	55.6	55.4	-0.2	No	
Century Boulevard	Grevillea Avenue	La Brea Avenue/Hawthorne Boulevard	Daytime	72.5	72.4	-0.1	No	
			Nighttime	65.0	64.9	-0.1	No	
	La Brea Avenue/Hawthorne Boulevard	Myrtle Avenue	Daytime	71.6	71.6	0.0	No	
			Nighttime	64.1	64.0	0.0	No	
	Myrtle Avenue	Freeman Avenue	Daytime	71.2	71.2	0.0	No	
			Nighttime	63.7	63.7	0.0	No	
	Freeman Avenue	Prairie Avenue	Daytime	70.7	70.6	-0.1	No	
			Nighttime	63.1	63.1	0.0	No	
	Prairie Avenue	Doty Avenue	Daytime	71.6	71.5	-0.1	No	
			Nighttime	64.1	64.0	-0.1	No	
	Doty Avenue	HP Casino Way	Daytime	71.7	71.6	-0.1	No	
			Nighttime	64.2	64.1	-0.1	No	
	HP Casino Way	Yukon Avenue	Daytime	71.7	71.6	-0.1	No	
			Nighttime	64.2	64.1	-0.1	No	
Yukon Avenue	Club Drive	Daytime	71.6	71.5	-0.1	No		
		Nighttime	64.1	64.0	-0.1	No		
Club Drive	Crenshaw Boulevard	Daytime	71.8	71.7	-0.1	No		
		Nighttime	64.3	64.2	-0.1	No		
Crenshaw Boulevard	Van Ness Avenue	Daytime	71.1	71.0	-0.1	No		
		Nighttime	63.6	63.5	-0.1	No		
Regent Street			Daytime	61.1	61.0	-0.1	No	

Street	Segment		Time Period	Noise Level (dBA)			Significant Impact?
	From	To		Without Project	With Project	Increase/Decrease	
	Grevillea Avenue	La Brea Avenue	Nighttime	53.6	53.4	-0.2	No
	La Brea Avenue	Market Street	Daytime	66.0	65.9	-0.1	No
			Nighttime	58.5	58.4	-0.1	No
	Market Street	Prairie Avenue	Daytime	63.0	62.9	-0.1	No
			Nighttime	55.5	55.4	-0.1	No
	Hillcrest Boulevard	Grevillea Avenue	La Brea Avenue	Daytime	63.3	63.2	-0.1
Nighttime				55.8	55.7	-0.1	No
La Brea Avenue		Market Street	Daytime	62.5	62.4	-0.1	No
			Nighttime	55.0	54.9	-0.1	No
Market Street		Nutwood Street /Locust Street	Daytime	63.6	63.2	-0.4	No
			Nighttime	56.0	55.7	-0.3	No
Nutwood Street /Locust Street		Manchester Boulevard	Daytime	60.9	60.6	-0.3	No
			Nighttime	53.3	53.1	-0.2	No
Manchester Boulevard		Florence Avenue	Daytime	63.0	62.7	-0.3	No
			Nighttime	55.5	55.2	-0.3	No
Spruce Avenue	La Brea Avenue	Manchester Avenue	Daytime	58.6	58.6	0.0	No
			Nighttime	51.1	51.1	0.0	No
Kelso Street/Pincay Drive	Spruce Avenue	Prairie Avenue	Daytime	63.0	62.7	-0.3	No
			Nighttime	55.4	55.2	-0.2	No
	Prairie Avenue	Kareem Court	Daytime	69.8	69.7	-0.1	No
			Nighttime	62.2	62.1	-0.1	No
	Kareem Court	Crenshaw Boulevard	Daytime	68.5	68.4	-0.1	No
			Nighttime	61.0	60.9	-0.1	No
Hardy Street	La Brea Avenue	Prairie Avenue	Daytime	57.4	57.3	-0.1	No
			Nighttime	49.9	49.7	-0.2	No
104 th Street	Grevillea Avenue	Hawthorne Boulevard	Daytime	63.8	63.8	0.0	No
			Nighttime	56.3	56.2	-0.1	No
	Hawthorne Boulevard	Prairie Avenue	Daytime	61.6	61.6	0.0	No
			Nighttime	54.0	54.0	0.0	No
	Prairie Avenue	Doty Avenue	Daytime	61.0	61.0	0.0	No
			Nighttime	53.5	53.4	-0.1	No

Source: Refer to **Appendix 4.10-4.2** for adjusted baseline plus Project roadway noise levels.

Future Proposed Project Opening Year (2026) With and Without NFL Game Event

As shown, roadway noise level increases along analyzed roadways during both the daytime (7:00 AM to 10:00 PM) and nighttime (10:00 PM to 7:00 AM) periods would be negligible and would not exceed the 3 dBA Leq increase significance thresholds during both daytime and nighttime periods. Impacts of the proposed Project related to traffic generated noise for the Future Opening Year (2026) with Weekday NFL Game for the proposed Project would be less than significant.

**Table 4.10-21
Future Opening Year (2026) Noise With and Without Project and Weekday NFL Event**

Street	Segment		Time Period	Noise Level (dBA)		Increase	Significant Impact?	
	From	To		Without Project	With Project			
North/South								
La Brea Avenue	Hyde Park Boulevard (Beech Avenue)	Florence Avenue	Daytime	68.0	68.0	0.0	No	
			Nighttime	60.5	60.4	-0.1	No	
	Florence Avenue	Manchester Boulevard	Daytime	68.7	68.6	-0.1	No	
			Nighttime	61.2	61.1	-0.1	No	
	Manchester Boulevard	Spruce Avenue/Market Street	Daytime	67.9	67.9	0.0	No	
			Nighttime	60.4	60.3	-0.1	No	
	Spruce Avenue/Market Street	Arbor Vitae Street	Daytime	69.2	69.1	-0.1	No	
			Nighttime	61.7	61.6	-0.1	No	
	Arbor Vitae Street	Hardy Street	Daytime	69.1	69.0	-0.1	No	
			Nighttime	61.6	61.5	-0.1	No	
	Hardy Street	Century Boulevard	Daytime	69.6	69.5	0.0	No	
			Nighttime	62.0	62.0	0.0	No	
	Hawthorne Boulevard	Century Boulevard	104 th Street	Daytime	71.2	71.2	0.0	No
				Nighttime	63.7	63.6	-0.1	No
104 th Street		Lennox Boulevard	Daytime	71.6	71.6	0.0	No	
			Nighttime	64.1	64.0	-0.1	No	
Prairie Avenue	Florence Avenue	Regent Street	Daytime	69.6	69.5	-0.1	No	
			Nighttime	62.1	62.0	-0.1	No	
	Regent Street	Manchester Boulevard	Daytime	69.5	69.3	-0.2	No	
			Nighttime	62.0	61.8	-0.2	No	
	Manchester Boulevard	Kelso St/Pincay Drive	Daytime	71.4	71.2	-0.2	No	
			Nighttime	63.9	63.7	-0.2	No	
			Daytime	71.7	71.6	-0.1	No	

Street	Segment		Time Period	Noise Level (dBA)			Significant Impact?	
	From	To		Without Project	With Project	Increase/Decrease		
	Kelso St/Pincay Drive	Arbor Vitae Street	Nighttime	64.2	64.1	-0.1	No	
	Arbor Vitae Street	Hardy Street	Daytime	71.3	71.1	-0.2	No	
			Nighttime	63.8	63.5	-0.3	No	
	Hardy Street	97 th Street	Daytime	72.2	72.0	-0.2	No	
			Nighttime	64.6	64.4	-0.2	No	
	97 th Street	Century Boulevard	Daytime	72.2	72.0	-0.2	No	
			Nighttime	64.6	64.4	-0.2	No	
	Century Boulevard	102 nd Street	Daytime	71.8	71.5	-0.3	No	
			Nighttime	64.3	64.0	-0.3	No	
	102 nd Street	104 th Street	Daytime	71.8	71.7	-0.1	No	
			Nighttime	64.3	64.1	-0.2	No	
	104 th Street	Lennox Boulevard	Daytime	71.9	71.7	-0.2	No	
			Nighttime	64.3	64.2	-0.1	No	
	Crenshaw Boulevard	80 th Street	Manchester Boulevard	Daytime	70.1	70.1	0.0	No
Nighttime				62.6	62.5	0.0	No	
Manchester Boulevard		Pincay Drive/90 th Street	Daytime	70.9	70.9	0.0	No	
			Nighttime	63.4	63.3	0.0	No	
Pincay Drive/90 th Street		Arbor Vitae Street	Daytime	72.0	71.9	-0.1	No	
			Nighttime	64.5	64.4	-0.1	No	
Hardy Street		Century Boulevard	Daytime	71.9	71.8	0.0	No	
			Nighttime	64.4	64.3	-0.1	No	
Century Boulevard		104 th Street	Daytime	71.6	71.5	-0.1	No	
			Nighttime	64.1	64.0	-0.1	No	
Market Street		Florence Avenue	Regent Street	Daytime	57.2	57.1	0.0	No
				Nighttime	49.7	49.6	0.0	No
		Regent Street	Manchester Boulevard	Daytime	60.3	60.2	-0.1	No
				Nighttime	52.8	52.7	-0.1	No
Myrtle Avenue	Arbor Vitae Street	Hardy Street	Daytime	60.5	60.4	-0.1	No	
			Nighttime	53.0	52.9	-0.1	No	
Doty Avenue	Century Boulevard	104 th Street	Daytime	60.7	60.6	-0.1	No	
			Nighttime	53.2	53.1	-0.1	No	
Yukon Avenue	Century Boulevard	104 th Street	Daytime	63.0	62.9	-0.1	No	
			Nighttime	55.4	55.3	-0.1	No	
Locust Street	Florence Avenue	Manchester Boulevard	Daytime	58.1	58.1	0.0	No	
			Nighttime	50.6	50.5	-0.1	No	
East/West								
Centinela Avenue	Hyde Park Boulevard	Florence Avenue	Daytime	68.4	68.4	0.0	No	
			Nighttime	60.9	60.8	0.0	No	

Street	Segment		Time Period	Noise Level (dBA)			Significant Impact?	
	From	To		Without Project	With Project	Increase/Decrease		
Florence Avenue	Fir Avenue	La Brea Avenue	Daytime	68.8	68.8	0.0	No	
			Nighttime	61.3	61.2	-0.1	No	
	La Brea Avenue	Market Street	Daytime	69.6	69.6	0.0	No	
			Nighttime	62.1	62.1	0.0	No	
	Market Street	Centinela Avenue	Daytime	70.5	70.4	-0.1	No	
			Nighttime	63.0	62.9	-0.1	No	
	Centinela Avenue	Prairie Avenue	Daytime	72.3	72.2	-0.1	No	
			Nighttime	64.8	64.7	-0.1	No	
	Prairie Avenue	West Boulevard	Daytime	72.2	72.2	0.0	No	
			Nighttime	64.7	64.7	0.0	No	
	Manchester Boulevard	Grevillea Avenue	La Brea Avenue	Daytime	68.6	68.5	-0.1	No
				Nighttime	61.1	61.0	-0.1	No
La Brea Avenue		Market Street	Daytime	68.6	68.5	-0.1	No	
			Nighttime	61.1	61.0	-0.1	No	
Market Street		Locust Street	Daytime	67.8	67.6	-0.2	No	
			Nighttime	60.2	60.1	-0.1	No	
Locust Street		Hillcrest Boulevard	Daytime	68.4	68.3	-0.1	No	
			Nighttime	60.9	60.7	-0.1	No	
Hillcrest Boulevard		Spruce Avenue	Daytime	69.3	69.2	-0.1	No	
			Nighttime	61.8	61.7	-0.1	No	
Spruce Avenue		Prairie Avenue	Daytime	69.8	69.7	-0.1	No	
			Nighttime	62.3	62.1	-0.1	No	
Prairie Avenue		Kareem Court	Daytime	71.5	71.4	-0.1	No	
			Nighttime	64.0	63.9	-0.1	No	
Kareem Court		Crenshaw Drive	Daytime	72.4	72.4	0.0	No	
			Nighttime	64.9	64.8	-0.1	No	
Crenshaw Drive		Crenshaw Boulevard	Daytime	71.2	71.0	-0.2	No	
			Nighttime	63.6	63.5	-0.1	No	
Crenshaw Boulevard	Van Ness Avenue	Daytime	71.5	71.4	-0.1	No		
		Nighttime	64.0	63.9	-0.1	No		
Arbor Vitae Street	Grevillea Avenue	La Brea Avenue	Daytime	66.0	65.8	-0.2	No	
			Nighttime	58.5	58.3	-0.2	No	
	La Brea Avenue	Myrtle Avenue	Daytime	65.5	65.3	-0.2	No	
			Nighttime	57.9	57.8	-0.1	No	
	Myrtle Avenue	Prairie Avenue	Daytime	64.9	64.6	-0.3	No	
			Nighttime	57.3	57.1	-0.2	No	
Century Boulevard	Grevillea Avenue	La Brea Avenue/Hawthorne Boulevard	Daytime	73.8	73.7	-0.1	No	
			Nighttime	66.3	66.2	-0.1	No	
			Daytime	73.0	72.9	-0.1	No	

Street	Segment		Time Period	Noise Level (dBA)			Significant Impact?
	From	To		Without Project	With Project	Increase/Decrease	
	La Brea Avenue/Hawthorne Boulevard	Myrtle Avenue	Nighttime	65.4	65.4	0.0	No
	Myrtle Avenue	Freeman Avenue	Daytime	72.8	72.7	-0.1	No
			Nighttime	65.2	65.1	-0.1	No
	Freeman Avenue	Prairie Avenue	Daytime	72.4	72.3	-0.1	No
			Nighttime	64.8	64.7	-0.1	No
	Prairie Avenue	Doty Avenue	Daytime	73.1	72.9	-0.2	No
			Nighttime	65.5	65.4	-0.1	No
	Doty Avenue	HP Casino Way	Daytime	73.0	72.9	-0.1	No
			Nighttime	65.5	65.4	-0.1	No
	HP Casino Way	Yukon Avenue	Daytime	73.0	72.9	-0.1	No
			Nighttime	65.5	65.4	-0.1	No
	Yukon Avenue	Club Drive	Daytime	72.8	72.6	-0.2	No
			Nighttime	65.3	65.1	-0.2	No
	Club Drive	Crenshaw Boulevard	Daytime	72.9	72.8	-0.1	No
			Nighttime	65.4	65.3	-0.1	No
	Crenshaw Boulevard	Van Ness Avenue	Daytime	72.1	72.0	-0.1	No
			Nighttime	64.6	64.5	-0.1	No
	Regent Street	Grevillea Avenue	La Brea Avenue	Daytime	62.6	62.5	-0.1
Nighttime			55.1	55.0	-0.1	No	
La Brea Avenue		Market Street	Daytime	66.6	66.5	-0.1	No
			Nighttime	59.1	59.0	-0.1	No
Market Street	Prairie Avenue	Daytime	63.5	63.4	-0.1	No	
		Nighttime	56.0	55.9	-0.1	No	
Hillcrest Boulevard	Grevillea Avenue	La Brea Avenue	Daytime	64.4	64.4	0.0	No
			Nighttime	56.9	56.8	-0.1	No
	La Brea Avenue	Market Street	Daytime	63.4	63.4	0.0	No
			Nighttime	55.9	55.8	-0.1	No
	Market Street	Nutwood Street /Locust Street	Daytime	64.3	64.2	-0.1	No
			Nighttime	56.8	56.6	-0.2	No
	Nutwood Street /Locust Street	Manchester Boulevard	Daytime	62.0	61.8	-0.2	No
			Nighttime	54.5	54.3	-0.2	No
	Manchester Boulevard	Florence Avenue	Daytime	64.0	63.8	-0.2	No
			Nighttime	56.4	56.3	-0.1	No
Spruce Avenue	La Brea Avenue	Manchester Avenue	Daytime	63.0	62.6	-0.4	No
			Nighttime	55.5	55.1	-0.4	No
	Spruce Avenue	Prairie Avenue	Daytime	64.0	64.0	0.0	No
			Nighttime	56.5	56.5	0.0	No

Street	Segment		Time Period	Noise Level (dBA)			Significant Impact?
	From	To		Without Project	With Project	Increase/Decrease	
Kelso Street/Pincay Drive	Prairie Avenue	Kareem Court	Daytime	70.9	70.8	-0.1	No
			Nighttime	63.4	63.3	-0.1	No
	Kareem Court	Crenshaw Boulevard	Daytime	71.4	71.2	-0.2	No
			Nighttime	63.8	63.7	-0.1	No
Hardy Street	La Brea Avenue	Prairie Avenue	Daytime	59.3	58.7	-0.6	No
			Nighttime	51.8	51.1	-0.7	No
104 th Street	Grevillea Avenue	Hawthorne Boulevard	Daytime	64.6	64.6	0.0	No
			Nighttime	57.1	57.1	0.0	No
	Hawthorne Boulevard	Prairie Avenue	Daytime	62.6	62.6	0.0	No
			Nighttime	55.0	55.0	0.0	No
	Prairie Avenue	Doty Avenue	Daytime	63.8	63.7	-0.1	No
			Nighttime	56.3	56.2	-0.1	No

Source: Refer to **Appendix 4.10-4.3** for Future (Year 2026) With and Without Project roadway noise levels.

Future Long-Term Proposed Project (2045) With and Without Weekday NFL Game Event

As shown, roadway noise levels along analyzed roadways without weekday NFL Game Event during the daytime (7:00 AM to 10:00 PM) ranged from a low of 58.1 dBA along Market Street from Florence Avenue to Regent Street to a high of 74.6 dBA along Century Boulevard between Grevillea Avenue and La Brea Avenue/Hawthorne Boulevard. Additionally, nighttime roadway noise levels ranged from a low of 50.6 dBA along Market Street from Florence Avenue to Regent Street to a high of 66.1 dBA along Century Boulevard between Doty Avenue and HP Casino Way and between HP Casino Way to Yukon Avenue.

Roadway noise level increases with NFL Game Event along analyzed roadways during both the daytime (7:00 AM to 10:00 PM) and nighttime (10:00 PM to 7:00 AM) periods would be negligible and would not exceed the 3 dBA Leq increase significance thresholds during both daytime and nighttime periods. Impacts of the proposed Project related to traffic generated noise for the Future Long-Term Proposed Project (2045) With Weekday NFL Game Event would be less than significant.

**Table 4.10-22
Future Long-Term (2045) Noise With and Without Project and Weekday NFL Game Event**

Street	Segment		Time Period	Noise Level (dBA)			Significant Impact?	
	From	To		Without Project	With Project	Increase		
North/South								
La Brea Avenue	Hyde Park Boulevard (Beech Avenue)	Florence Avenue	Daytime	68.6	68.5	-0.1	No	
			Nighttime	61.1	61.0	-0.1	No	
	Florence Avenue	Manchester Boulevard	Daytime	69.2	69.1	-0.1	No	
			Nighttime	61.6	61.6	0.0	No	
	Manchester Boulevard	Spruce Avenue/Market Street	Daytime	68.5	68.4	-0.1	No	
			Nighttime	61.0	60.9	-0.1	No	
	Spruce Avenue/Market Street	Arbor Vitae Street	Daytime	69.8	69.8	0.0	No	
			Nighttime	62.3	62.3	0.0	No	
	Arbor Vitae Street	Hardy Street	Daytime	69.8	69.7	-0.1	No	
			Nighttime	62.3	62.2	-0.1	No	
	Hardy Street	Century Boulevard	Daytime	70.3	70.3	0.0	No	
			Nighttime	62.8	62.7	-0.1	No	
	Hawthorne Boulevard	Century Boulevard	104 th Street	Daytime	72.0	71.9	-0.1	No
				Nighttime	64.5	64.4	-0.1	No
104 th Street		Lennox Boulevard	Daytime	72.4	72.4	0.0	No	
			Nighttime	64.9	64.8	-0.1	No	
Prairie Avenue	Florence Avenue	Regent Street	Daytime	70.1	70.0	-0.1	No	
			Nighttime	62.6	62.5	-0.1	No	
	Regent Street	Manchester Boulevard	Daytime	69.8	69.6	-0.2	No	
			Nighttime	62.3	62.1	-0.2	No	
	Manchester Boulevard	Kelso St/Pincay Drive	Daytime	72.0	71.9	-0.1	No	
			Nighttime	64.5	64.3	-0.2	No	
	Kelso St/Pincay Drive	Arbor Vitae Street	Daytime	72.2	72.1	-0.1	No	
			Nighttime	64.7	64.5	-0.2	No	
	Arbor Vitae Street	Hardy Street	Daytime	71.9	71.7	-0.2	No	
			Nighttime	64.4	64.2	-0.2	No	
	Hardy Street	97 th Street	Daytime	72.6	72.4	-0.2	No	
			Nighttime	65.1	64.9	-0.2	No	
	97 th Street	Century Boulevard	Daytime	72.6	72.4	-0.2	No	
			Nighttime	65.1	64.9	-0.2	No	
	Century Boulevard	102 nd Street	Daytime	72.3	72.1	-0.2	No	
			Nighttime	64.7	64.6	-0.1	No	
102 nd Street	104 th Street	Daytime	72.4	72.2	-0.2	No		
		Nighttime	64.9	64.7	-0.2	No		
104 th Street		Daytime	72.3	72.2	-0.1	No		

Street	Segment		Time Period	Noise Level (dBA)			Significant Impact?	
	From	To		Without Project	With Project	Increase/Decrease		
Crenshaw Boulevard	80 th Street	Lennox Boulevard	Nighttime	64.8	64.6	-0.2	No	
		Manchester Boulevard	Daytime	70.7	70.6	-0.1	No	
	Manchester Boulevard	Pincay Drive/90 th Street	Nighttime	63.2	63.1	-0.1	No	
			Daytime	71.5	71.4	-0.1	No	
	Pincay Drive/90 th Street	Arbor Vitae Street	Nighttime	63.9	63.9	0.0	No	
			Daytime	72.6	72.5	-0.1	No	
	Hardy Street	Century Boulevard	Nighttime	65.0	65.0	0.0	No	
			Daytime	72.5	72.4	-0.1	No	
	Century Boulevard	104 th Street	Nighttime	64.6	64.5	-0.1	No	
			Daytime	72.2	72.0	-0.2	No	
	Market Street	Florence Avenue	Regent Street	Daytime	58.1	58.1	0.0	No
				Nighttime	50.6	50.6	0.0	No
Regent Street		Manchester Boulevard	Daytime	60.9	60.9	0.0	No	
			Nighttime	53.4	53.3	-0.1	No	
Myrtle Avenue	Arbor Vitae Street	Hardy Street	Daytime	61.7	61.6	-0.1	No	
			Nighttime	54.2	54.1	-0.1	No	
Doty Avenue	Century Boulevard	104 th Street	Daytime	61.0	60.9	-0.1	No	
			Nighttime	53.5	53.4	-0.1	No	
Yukon Avenue	Century Boulevard	102 nd Street	Daytime	63.2	63.2	0.0	No	
			Nighttime	55.8	55.7	-0.1	No	
Locust Street	Florence Avenue	Manchester Boulevard	Daytime	58.8	58.7	-0.1	No	
			Nighttime	51.3	51.2	-0.1	No	
East/West								
Centinela Avenue	Hyde Park Boulevard	Florence Avenue	Daytime	69.0	68.9	-0.1	No	
			Nighttime	61.4	61.4	0.0	No	
Florence Avenue	Fir Avenue	La Brea Avenue	Daytime	69.6	69.6	0.0	No	
			Nighttime	62.1	62.1	0.0	No	
	La Brea Avenue	Market Street	Daytime	70.3	70.4	0.1	No	
			Nighttime	62.9	62.8	-0.1	No	
	Market Street	Centinela Avenue	Daytime	71.2	71.2	0.0	No	
			Nighttime	63.7	63.6	-0.1	No	
	Centinela Avenue	Prairie Avenue	Daytime	72.9	72.8	-0.1	No	
			Nighttime	65.3	65.3	0.0	No	
Prairie Avenue	West Boulevard	Daytime	72.9	72.8	0.0	No		
		Nighttime	65.3	65.3	0.0	No		
Manchester	Grevillea Avenue	La Brea Avenue	Daytime	69.0	68.9	-0.1	No	
			Nighttime	61.5	61.3	-0.2	No	
	La Brea Avenue	Market Street	Daytime	69.0	68.8	-0.2	No	

Street	Segment		Time Period	Noise Level (dBA)			Significant Impact?
	From	To		Without Project	With Project	Increase/Decrease	
Boulevard	Market Street	Locust Street	Nighttime	61.5	61.3	-0.2	No
			Daytime	68.1	67.9	-0.2	No
	Locust Street	Hillcrest Boulevard	Daytime	68.8	68.7	-0.1	No
			Nighttime	61.3	61.1	-0.1	No
	Hillcrest Boulevard	Spruce Avenue	Daytime	69.9	69.7	-0.1	No
			Nighttime	62.3	62.2	-0.1	No
	Spruce Avenue	Prairie Avenue	Daytime	70.3	70.2	-0.1	No
			Nighttime	62.8	62.7	-0.1	No
	Prairie Avenue	Kareem Court	Daytime	72.0	72.0	0.0	No
			Nighttime	64.5	64.4	-0.1	No
	Kareem Court	Crenshaw Drive	Daytime	73.1	73.0	-0.1	No
			Nighttime	65.6	65.5	-0.1	No
	Crenshaw Drive	Crenshaw Boulevard	Daytime	71.8	71.7	-0.1	No
			Nighttime	64.3	64.1	-0.2	No
	Crenshaw Boulevard	Van Ness Avenue	Daytime	72.0	71.9	-0.1	No
			Nighttime	64.5	64.4	-0.1	No
Arbor Vitae Street	Grevillea Avenue	La Brea Avenue	Daytime	66.7	66.5	-0.1	No
			Nighttime	59.2	59.1	-0.1	No
	La Brea Avenue	Myrtle Avenue	Daytime	66.0	65.8	-0.2	No
			Nighttime	58.4	58.3	-0.1	No
Myrtle Avenue	Prairie Avenue	Daytime	65.4	65.2	-0.2	No	
		Nighttime	57.9	57.7	-0.2	No	
Century Boulevard	Grevillea Avenue	La Brea Avenue/Hawthorne Boulevard	Daytime	74.6	74.5	-0.1	No
			Nighttime	67.1	67.0	-0.1	No
	La Brea Avenue/Hawthorne Boulevard	Myrtle Avenue	Daytime	73.7	73.6	-0.1	No
			Nighttime	66.1	66.0	-0.1	No
Myrtle Avenue	Freeman Avenue	Daytime	73.5	73.4	-0.1	No	
		Nighttime	66.0	65.9	-0.1	No	
Freeman Avenue	Prairie Avenue	Daytime	73.1	73.0	-0.1	No	
		Nighttime	65.6	65.5	-0.1	No	
Prairie Avenue	Doty Avenue	Daytime	73.7	73.6	-0.1	No	
		Nighttime	66.2	66.1	-0.1	No	
Doty Avenue	HP Casino Way	Daytime	73.6	73.5	-0.1	No	
		Nighttime	66.1	66.0	-0.1	No	
HP Casino Way	Yukon Avenue	Daytime	73.6	73.5	-0.1	No	
		Nighttime	66.1	66.0	-0.1	No	
Yukon Avenue	Club Drive	Daytime	73.4	73.2	-0.2	No	
		Nighttime	65.8	65.7	-0.1	No	

Street	Segment		Time Period	Noise Level (dBA)			Significant Impact?
	From	To		Without Project	With Project	Increase/Decrease	
	Club Drive	Crenshaw Boulevard	Daytime	73.5	73.4	-0.1	No
			Nighttime	66.0	65.9	-0.1	No
	Crenshaw Boulevard	Van Ness Avenue	Daytime	72.8	72.7	-0.1	No
			Nighttime	65.2	65.2	0.0	No
Regent Street	Grevillea Avenue	La Brea Avenue	Daytime	63.6	63.5	-0.1	No
			Nighttime	56.1	56.0	-0.1	No
	La Brea Avenue	Market Street	Daytime	67.4	67.3	-0.1	No
			Nighttime	59.8	59.8	0.0	No
	Market Street	Prairie Avenue	Daytime	64.2	64.1	-0.1	No
			Nighttime	56.7	56.6	-0.1	No
Hillcrest Boulevard	Grevillea Avenue	La Brea Avenue	Daytime	65.3	65.3	0.0	No
			Nighttime	57.8	57.8	0.0	No
	La Brea Avenue	Market Street	Daytime	64.2	64.1	-0.1	No
			Nighttime	56.7	56.6	-0.1	No
	Market Street	Nutwood Street / Locust Street	Daytime	65.0	64.9	-0.1	No
			Nighttime	57.5	57.4	-0.1	No
	Nutwood Street / Locust Street	Manchester Boulevard	Daytime	62.7	62.5	-0.2	No
			Nighttime	55.2	55.0	-0.2	No
Manchester Boulevard	Florence Avenue	Daytime	64.6	64.4	-0.2	No	
		Nighttime	57.0	56.9	-0.1	No	
Spruce Avenue	La Brea Avenue	Manchester Avenue	Daytime	63.7	63.4	-0.3	No
			Nighttime	56.1	55.8	-0.3	No
Kelso Street / Pincay Drive	Spruce Avenue	Prairie Avenue	Daytime	64.9	64.7	-0.2	No
			Nighttime	57.4	57.2	-0.2	No
	Prairie Avenue	Kareem Court	Daytime	71.5	71.3	-0.2	No
			Nighttime	64.0	63.8	-0.2	No
Kareem Court	Crenshaw Boulevard	Daytime	72.0	71.8	-0.2	No	
		Nighttime	64.5	64.3	-0.2	No	
Hardy Street	La Brea Avenue	Prairie Avenue	Daytime	59.8	59.3	-0.5	No
			Nighttime	52.3	51.7	-0.6	No
104 th Street	Grevillea Avenue	Hawthorne Boulevard	Daytime	65.6	65.6	0.0	No
			Nighttime	58.1	58.1	0.0	No
	Hawthorne Boulevard	Prairie Avenue	Daytime	63.6	63.6	0.0	No
			Nighttime	56.0	56.0	0.0	No
	Prairie Avenue	Doty Avenue	Daytime	64.6	64.5	-0.1	No
			Nighttime	57.0	57.0	0.0	No

Source: Refer to **Appendix 4.10-4.4** for Future (Year 2045) With and Without Project roadway noise levels.



N.3

Vibration Monitoring Data Sheets



RMS Level, VdB
One-Third Octave Band Center Frequency (Hz)

Site	<u>4</u>	<u>5</u>	<u>6.3</u>	<u>8</u>	<u>10</u>	<u>12.5</u>	<u>16</u>	<u>20</u>	<u>25</u>	<u>31.5</u>	<u>40</u>	<u>50</u>	<u>63</u>	<u>80</u>	<u>100</u>	<u>125</u>	<u>160</u>	<u>200</u>	<u>250</u>	<u>315</u>	<u>400</u>	Max (8-80)
1	53	50	50	49	47	52	46	41	48	48	40	41	38	39	45	48	44	45	47	44	38	52
2	82	77	63	56	53	53	54	55	57	60	53	57	55	52	50	51	51	52	49	42	37	60
3	58	54	49	53	57	60	59	56	55	54	48	42	39	39	40	43	44	51	49	36	25	60
4	54	52	50	54	62	60	57	56	54	52	51	52	48	46	46	45	43	35	29	23	19	62
5	72	69	64	60	63	67	67	62	62	59	58	56	53	53	56	53	52	49	51	52	48	67



N.4

Construction Noise Worksheets



Sound Power Level - Phase 1

	Quantity	Spec Lmax (50 feet)	Lmax	Leq
Backhoe	3	80	77.6	78.4
Loader	3	80	79.1	79.9
Compressor	2	80	77.7	76.7
Excavator	2	85	80.7	79.7
Bobcat	2	85	85	85
Impact Hammer	3	90	90.3	88.1
Jackhammer	5	89	88.9	88.9
Pneumatic Tools	5	85	85.2	89.2
Concrete Saw	2	90	89.6	85.6
Portable Light Towers for night work	4	70	72.8	75.8
MKN Lifts	3	75	74.7	73.7

TOTAL

34

AVERAGE

85.4 84.8

Sound Power Level - Phase 2

	Quantity	Spec Lmax (50 feet)	Lmax	Leq
Crane	1	85	80.6	72.6
Backhoe	3	80	77.6	78.4
Loader	4	80	79.1	81.2
Auger Drill Rig	1	85	84.4	77.4
Compressor	2	80	77.7	76.7
Excavator	2	85	80.7	79.7
Bobcat	2	85	85	85
Impact Hammer	3	90	90.3	88.1
Jackhammer	2	89	88.9	84.9
Pneumatic Tools	5	85	85.2	89.2
Concrete Saw	1	90	89.6	82.6
Compactor (ground)	1	83	83.2	76.2
Portable Light Towers	5	70	72.8	76.8
MKN Lifts	8	75	74.7	76.7

TOTAL

40

AVERAGE

84.9

83.1

Sound Power Level - Phase 3

	Quantity	Spec Lmax (50 feet)	Lmax	Leq
Crane	3	85	80.6	77.4
Backhoe	3	80	77.6	78.4
Loader	5	80	79.1	82.1
Auger Drill Rig	3	85	84.4	82.1
Compressor	4	80	77.7	79.7
Excavator	2	85	80.7	79.7
Bobcat	2	85	85	85
Impact Hammer	3	90	90.3	88.1
Jackhammer	2	89	88.9	84.9
Pneumatic Tools	10	85	85.2	92.2
Generator	2	82	80.6	80.6
Drum Mixer	2	80	80	80
Concrete Saw	1	90	89.6	82.6
Compactor (ground)	2	83	83.2	79.3
Portable Light Towers	5	70	72.8	76.8
MKN Lifts	8	75	74.7	76.7

TOTAL

57

AVERAGE

84.6 84.1

Sound Power Level - Phase 4

	Quantity	Spec Lmax (50 feet)	Lmax	Leq
Crane	6	85	80.6	80.4
Backhoe	3	80	77.6	78.4
Loader	3	80	79.1	79.9
Auger Drill Rig	3		84.4	82.1
Compressor	5	80	77.7	80.7
Excavator	1		80.7	76.7
Bobcat	2	85	85	85
Impact Hammer	2	90	90.3	86.3
Jackhammer	2	89	88.9	84.9
Pneumatic Tools	15	85	85.2	93.9
Generator	3	82	80.6	82.4
Drum Mixer	2	80	80	80
Concrete Saw	1	90	89.6	82.6
Compactor (Ground)	1	83	83.2	76.2
Portable Light Towers	5	70	72.8	76.8
Man Lift	6	75	74.7	75.5

TOTAL

60

AVERAGE

84.6 84.7

Sound Power Level - Phase 5

	Quantity	Spec Lmax (50 feet)	Lmax	Leq
Crane	6	85	80.6	80.4
Backhoe	3	80	77.6	78.4
Loader	1	80	79.1	75.1
Compressor	4	80	77.7	79.7
Bobcat	2	85	85	85
Impact Hammer	2	90	90.3	86.3
Jackhammer	2	89	88.9	84.9
Pneumatic Tools	15	85	85.2	93.9
Generator	3	82	80.6	82.4
Drum Mixer	1	80	80	77
Concrete Saw	1	90	89.6	82.6
Compactor (ground)	1	83	83.2	76.2
Portable Light Towers	2	70	72.8	72.8
MKN Lifts	6	75	74.7	75.5

TOTAL

49

AVERAGE

84.8

84.9

Sound Power Level - Phase 6

	Quantity	Spec Lmax (50 feet)	Lmax	Leq
Crane	6	85	80.6	80.4
Backhoe	1	80	77.6	73.6
Loader	1	80	79.1	75.1
Compressor	3	80	77.7	78.5
Bobcat	2	85	79.1	84.2
Pneumatic Tools	10	85	85.2	92.2
Generator	2	82	80.6	80.6
Drum Mixer	1	80	80	77
Drill Rig Truck	1	84	79.1	72.2
Concrete Saw	1	90	89.6	82.6
Compactor (ground)	1	83	83.2	76.2
Portable Light Towers	2	70	72.8	72.8
MKN Lifts	2	75	74.7	70.7
	TOTAL		AVERAGE	
	33		82.3	83.0

Sound Power Level - Phase 7

	Quantity	Spec Lmax (50 feet)	Lmax	Leq
Crane	1	85	80.6	72.6
Backhoe	1	80	77.6	73.6
Compressor	1	80	77.7	73.7
Bobcat	2	85	85	85
Pneumatic Tools	8	85	85.2	91.2
Generator	2	82	80.6	80.6
Drill Rig Truck	2	84	79.1	75.2
Compactor (ground)	4	83	83.2	82.3
	TOTAL		AVERAGE	
	21		82.1	84.0

Sound Power Level - Phase 8

	Quantity	Spec Lmax (50 feet)	Lmax	Leq
Pneumatic Tools	6	85	85.2	90
	TOTAL		AVERAGE	
	6		85.2	90.0

Phase 1

Receiver	FI	CNEL/dB(A)	Ld/dB(A)	Le/dB(A)	
Kelso Elementary	G		66.4	62.6	59
Site 1	G		81.4	77.6	74
Site 2	G		72.9	69.1	65.5
Site 3	G		78.1	74.3	70.8
Site 4	G		64.8	61	57.4
Site 5	G		62.7	58.9	55.3
Site A	G		64.7	60.9	57.3
Site B	G		67.7	63.9	60.3
Site C	G		60.4	56.6	53
Site D	G		63.4	59.6	56.1
Site E	G		61.9	58.1	54.5
Site F	G		70	66.2	62.6
Site G	G		64.4	60.6	57
Site H	G		65.5	61.7	58.1
Site I	G		81.4	77.6	74
Site J	G		71.5	67.7	64.1
Site K	G		76.9	73.1	69.6
Site L	G		60.3	56.5	52.9
Site M	G		58.3	54.5	50.9

Ln/dB(A)	Ldaytime/dB(A)	Lnighttime/dB(A)	Hourly (da/dB(A)	
	59.6	62.5	59.2	62.6
	74.6	77.5	74.2	77.6
	66.1	69	65.6	69.1
	71.3	74.2	70.9	74.3
	58	60.9	57.6	61
	55.9	58.8	55.5	58.9
	57.9	60.8	57.5	60.9
	60.9	63.8	60.5	63.9
	53.6	56.5	53.1	56.6
	56.6	59.5	56.2	59.6
	55.1	58	54.7	58.1
	63.2	66.1	62.8	66.2
	57.6	60.5	57.1	60.6
	58.7	61.6	58.3	61.7
	74.6	77.5	74.2	77.6
	64.7	67.6	64.3	67.7
	70.1	73	69.7	73.1
	53.5	56.4	53.1	56.5
	51.5	54.4	51.1	54.5

Hourly (ni/dB(A))	0-1 o'clock dB(A)	1-2 o'clock dB(A)	2-3 o'clock dB(A)
59.6	59.6	59.6	59.6
74.6	74.6	74.6	74.6
66.1	66.1	66.1	66.1
71.3	71.3	71.3	71.3
58	58	58	58
55.9	55.9	55.9	55.9
57.9	57.9	57.9	57.9
60.9	60.9	60.9	60.9
53.6	53.6	53.6	53.6
56.6	56.6	56.6	56.6
55.1	55.1	55.1	55.1
63.2	63.2	63.2	63.2
57.6	57.6	57.6	57.6
58.7	58.7	58.7	58.7
74.6	74.6	74.6	74.6
64.7	64.7	64.7	64.7
70.1	70.1	70.1	70.1
53.5	53.5	53.5	53.5
51.5	51.5	51.5	51.5

3-4 o'clock dB(A)	4-5 o'clock dB(A)	5-6 o'clock dB(A)	6-7 o'clock dB(A)
59.6	59.6	59.6	59.6
74.6	74.6	74.6	74.6
66.1	66.1	66.1	66.1
71.3	71.3	71.3	71.3
58	58	58	58
55.9	55.9	55.9	55.9
57.9	57.9	57.9	57.9
60.9	60.9	60.9	60.9
53.6	53.6	53.6	53.6
56.6	56.6	56.6	56.6
55.1	55.1	55.1	55.1
63.2	63.2	63.2	63.2
57.6	57.6	57.6	57.6
58.7	58.7	58.7	58.7
74.6	74.6	74.6	74.6
64.7	64.7	64.7	64.7
70.1	70.1	70.1	70.1
53.5	53.5	53.5	53.5
51.5	51.5	51.5	51.5

7-8 o'clock dB(A)	8-9 o'clock dB(A)	9-10 o'clock dB(A)	10-11 o'clock dB(A)
62.6	62.6	62.6	62.6
77.6	77.6	77.6	77.6
69.1	69.1	69.1	69.1
74.3	74.3	74.3	74.3
61	61	61	61
58.9	58.9	58.9	58.9
60.9	60.9	60.9	60.9
63.9	63.9	63.9	63.9
56.6	56.6	56.6	56.6
59.6	59.6	59.6	59.6
58.1	58.1	58.1	58.1
66.2	66.2	66.2	66.2
60.6	60.6	60.6	60.6
61.7	61.7	61.7	61.7
77.6	77.6	77.6	77.6
67.7	67.7	67.7	67.7
73.1	73.1	73.1	73.1
56.5	56.5	56.5	56.5
54.5	54.5	54.5	54.5

11-12 o'clock dB(A)	12-13 o'clock dB(A)	13-14 o'clock dB(A)	14-15 o'clock dB(A)
62.6	62.6	62.6	62.6
77.6	77.6	77.6	77.6
69.1	69.1	69.1	69.1
74.3	74.3	74.3	74.3
61	61	61	61
58.9	58.9	58.9	58.9
60.9	60.9	60.9	60.9
63.9	63.9	63.9	63.9
56.6	56.6	56.6	56.6
59.6	59.6	59.6	59.6
58.1	58.1	58.1	58.1
66.2	66.2	66.2	66.2
60.6	60.6	60.6	60.6
61.7	61.7	61.7	61.7
77.6	77.6	77.6	77.6
67.7	67.7	67.7	67.7
73.1	73.1	73.1	73.1
56.5	56.5	56.5	56.5
54.5	54.5	54.5	54.5

15-16 o'clock dB(A)	16-17 o'clock dB(A)	17-18 o'clock dB(A)	18-19 o'clock dB(A)
62.6	62.6	62.6	62.6
77.6	77.6	77.6	77.6
69.1	69.1	69.1	69.1
74.3	74.3	74.3	74.3
61	61	61	61
58.9	58.9	58.9	58.9
60.9	60.9	60.9	60.9
63.9	63.9	63.9	63.9
56.6	56.6	56.6	56.6
59.6	59.6	59.6	59.6
58.1	58.1	58.1	58.1
66.2	66.2	66.2	66.2
60.6	60.6	60.6	60.6
61.7	61.7	61.7	61.7
77.6	77.6	77.6	77.6
67.7	67.7	67.7	67.7
73.1	73.1	73.1	73.1
56.5	56.5	56.5	56.5
54.5	54.5	54.5	54.5

19-20 o'clock dB(A)	20-21 o'clock dB(A)	21-22 o'clock dB(A)	22-23 o'clock dB(A)
61.4	58.4	58.4	56.6
76.4	73.4	73.4	71.6
67.8	64.9	64.9	63
73.1	70.1	70.1	68.3
59.8	56.8	56.8	55
57.6	54.7	54.7	52.9
59.6	56.7	56.7	54.8
62.6	59.7	59.7	57.9
55.3	52.4	52.4	50.5
58.4	55.4	55.4	53.6
56.8	53.9	53.9	52
64.9	62	62	60.2
59.3	56.4	56.4	54.5
60.5	57.5	57.5	55.7
76.3	73.4	73.4	71.6
66.4	63.5	63.5	61.7
71.9	68.9	68.9	67.1
55.3	52.3	52.3	50.5
53.2	50.3	50.3	48.5

23-24 o'clock dB(A)

59.6

74.6

66.1

71.3

58

55.9

57.9

60.9

53.6

56.6

55.1

63.2

57.6

58.7

74.6

64.7

70.1

53.5

51.5

Phase 2

Receiver	FI	CNEL/dB(A)	Ld/dB(A)	Le/dB(A)	
Kelso Elementary	G		73.2	69.4	65.8
Site 1	G		55.6	51.8	48.3
Site 2	G		71.5	67.7	64.1
Site 3	G		75.1	71.3	67.7
Site 4	G		76.5	72.7	69.1
Site 5	G		58.7	54.9	51.3
Site A	G		57	53.2	49.7
Site B	G		68.7	64.9	61.3
Site C	G		76.4	72.6	69
Site D	G		59.8	56	52.4
Site E	G		58.5	54.7	51.1
Site F	G		69	65.2	61.7
Site G	G		69.3	65.5	61.9
Site H	G		70.6	66.8	63.2
Site I	G		79.6	75.8	72.2
Site J	G		58.9	55.1	51.6
Site K	G		54.9	51.1	47.5
Site L	G		57.5	53.7	50.2
Site M	G		57	53.2	49.7

Ln/dB(A)	Ldaytime/dB(A)	Lnighttime/dB(A)	Hourly (da/dB(A))	
66.4	69.3	66	69.4	
48.8	51.8	48.4	51.8	
64.7	67.6	64.3	67.7	
68.3	71.2	67.9	71.3	
69.7	72.6	69.3	72.7	
51.8	54.8	51.4	54.9	
50.2	53.1	49.8	53.2	
61.8	64.8	61.4	64.9	
69.6	72.5	69.2	72.6	
53	55.9	52.6	56	
51.6	54.6	51.2	54.7	
62.2	65.1	61.8	65.2	
62.5	65.4	62.1	65.5	
63.8	66.7	63.4	66.8	
72.8	75.7	72.4	75.8	
52.1	55	51.7	55.1	
48.1	51	47.7	51.1	
50.7	53.7	50.3	53.7	
50.2	53.2	49.8	53.2	

Hourly (ni/dB(A))	0-1 o'clock dB(A)	1-2 o'clock dB(A)
66.4	66.4	66.4
48.8	48.8	48.8
64.7	64.7	64.7
68.3	68.3	68.3
69.7	69.7	69.7
51.8	51.8	51.8
50.2	50.2	50.2
61.8	61.8	61.8
69.6	69.6	69.6
53	53	53
51.6	51.6	51.6
62.2	62.2	62.2
62.5	62.5	62.5
63.8	63.8	63.8
72.8	72.8	72.8
52.1	52.1	52.1
48.1	48.1	48.1
50.7	50.7	50.7
50.2	50.2	50.2

2-3 o'clock dB(A)	3-4 o'clock dB(A)	4-5 o'clock dB(A)	5-6 o'clock dB(A)
66.4	66.4	66.4	66.4
48.8	48.8	48.8	48.8
64.7	64.7	64.7	64.7
68.3	68.3	68.3	68.3
69.7	69.7	69.7	69.7
51.8	51.8	51.8	51.8
50.2	50.2	50.2	50.2
61.8	61.8	61.8	61.8
69.6	69.6	69.6	69.6
53	53	53	53
51.6	51.6	51.6	51.6
62.2	62.2	62.2	62.2
62.5	62.5	62.5	62.5
63.8	63.8	63.8	63.8
72.8	72.8	72.8	72.8
52.1	52.1	52.1	52.1
48.1	48.1	48.1	48.1
50.7	50.7	50.7	50.7
50.2	50.2	50.2	50.2

6-7 o'clock dB(A)	7-8 o'clock dB(A)	8-9 o'clock dB(A)	9-10 o'clock dB(A)
66.4	69.4	69.4	69.4
48.8	51.8	51.8	51.8
64.7	67.7	67.7	67.7
68.3	71.3	71.3	71.3
69.7	72.7	72.7	72.7
51.8	54.9	54.9	54.9
50.2	53.2	53.2	53.2
61.8	64.9	64.9	64.9
69.6	72.6	72.6	72.6
53	56	56	56
51.6	54.7	54.7	54.7
62.2	65.2	65.2	65.2
62.5	65.5	65.5	65.5
63.8	66.8	66.8	66.8
72.8	75.8	75.8	75.8
52.1	55.1	55.1	55.1
48.1	51.1	51.1	51.1
50.7	53.7	53.7	53.7
50.2	53.2	53.2	53.2

10-11 o'clock dB(A)	11-12 o'clock dB(A)	12-13 o'clock dB(A)	13-14 o'clock dB(A)
69.4	69.4	69.4	69.4
51.8	51.8	51.8	51.8
67.7	67.7	67.7	67.7
71.3	71.3	71.3	71.3
72.7	72.7	72.7	72.7
54.9	54.9	54.9	54.9
53.2	53.2	53.2	53.2
64.9	64.9	64.9	64.9
72.6	72.6	72.6	72.6
56	56	56	56
54.7	54.7	54.7	54.7
65.2	65.2	65.2	65.2
65.5	65.5	65.5	65.5
66.8	66.8	66.8	66.8
75.8	75.8	75.8	75.8
55.1	55.1	55.1	55.1
51.1	51.1	51.1	51.1
53.7	53.7	53.7	53.7
53.2	53.2	53.2	53.2

14-15 o'clock dB(A)	15-16 o'clock dB(A)	16-17 o'clock dB(A)	17-18 o'clock dB(A)
69.4	69.4	69.4	69.4
51.8	51.8	51.8	51.8
67.7	67.7	67.7	67.7
71.3	71.3	71.3	71.3
72.7	72.7	72.7	72.7
54.9	54.9	54.9	54.9
53.2	53.2	53.2	53.2
64.9	64.9	64.9	64.9
72.6	72.6	72.6	72.6
56	56	56	56
54.7	54.7	54.7	54.7
65.2	65.2	65.2	65.2
65.5	65.5	65.5	65.5
66.8	66.8	66.8	66.8
75.8	75.8	75.8	75.8
55.1	55.1	55.1	55.1
51.1	51.1	51.1	51.1
53.7	53.7	53.7	53.7
53.2	53.2	53.2	53.2

18-19 o'clock dB(A)	19-20 o'clock dB(A)	20-21 o'clock dB(A)	21-22 o'clock dB(A)
69.4	68.1	65.2	65.2
51.8	50.6	47.6	47.6
67.7	66.4	63.5	63.5
71.3	70.1	67.1	67.1
72.7	71.5	68.5	68.5
54.9	53.6	50.7	50.7
53.2	52	49	49
64.9	63.6	60.7	60.7
72.6	71.3	68.4	68.4
56	54.8	51.8	51.8
54.7	53.4	50.4	50.4
65.2	64	61	61
65.5	64.2	61.3	61.3
66.8	65.5	62.6	62.6
75.8	74.6	71.6	71.6
55.1	53.9	50.9	50.9
51.1	49.9	46.9	46.9
53.7	52.5	49.5	49.5
53.2	52	49	49

22-23 o'clock dB(A)	23-24 o'clock dB(A)
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63.4	66.4
45.8	48.8
61.7	64.7
65.3	68.3
66.7	69.7
48.8	51.8
47.2	50.2
58.8	61.8
66.6	69.6
50	53
48.6	51.6
59.2	62.2
59.4	62.5
60.8	63.8
69.8	72.8
49.1	52.1
45.1	48.1
47.7	50.7
47.2	50.2

Phase 3

Receiver	FI	CNEL/dB(A)	Ld/dB(A)	Le/dB(A)	
Kelso Elementary	G		64.1	60.3	56.8
Site 1	G		73.7	69.9	66.3
Site 2	G		77.9	74.1	70.6
Site 3	G		72.9	69.1	65.5
Site 4	G		57.4	53.6	50
Site 5	G		56	52.2	48.6
Site A	G		76.2	72.4	68.8
Site B	G		77	73.2	69.7
Site C	G		56.9	53.1	49.5
Site D	G		56.5	52.7	49.2
Site E	G		53.9	50.1	46.5
Site F	G		60.9	57.1	53.5
Site G	G		60.7	56.9	53.3
Site H	G		65.6	61.8	58.2
Site I	G		80.9	77.1	73.5
Site J	G		74.3	70.5	67
Site K	G		75.1	71.3	67.7
Site L	G		59	55.2	51.6
Site M	G		56.3	52.5	49

Ln/dB(A)	Ldaytime/dB(A)	Lnighttime/dB(A)	Hourly (da/dB(A))	
	57.3	60.3	56.9	60.3
	66.9	69.8	66.5	69.9
	71.1	74	70.7	74.1
	66.1	69	65.7	69.1
	50.6	53.5	50.2	53.6
	49.2	52.1	48.8	52.2
	69.4	72.3	69	72.4
	70.2	73.1	69.8	73.2
	50.1	53	49.7	53.1
	49.7	52.6	49.3	52.7
	47.1	50	46.7	50.1
	54.1	57	53.7	57.1
	53.9	56.8	53.5	56.9
	58.8	61.7	58.4	61.8
	74.1	77	73.7	77.1
	67.5	70.5	67.1	70.5
	68.3	71.2	67.9	71.3
	52.2	55.1	51.8	55.2
	49.5	52.5	49.1	52.5

Hourly (ni/dB(A))	0-1 o'clock dB(A)	1-2 o'clock dB(A)
57.3	57.3	57.3
66.9	66.9	66.9
71.1	71.1	71.1
66.1	66.1	66.1
50.6	50.6	50.6
49.2	49.2	49.2
69.4	69.4	69.4
70.2	70.2	70.2
50.1	50.1	50.1
49.7	49.7	49.7
47.1	47.1	47.1
54.1	54.1	54.1
53.9	53.9	53.9
58.8	58.8	58.8
74.1	74.1	74.1
67.5	67.5	67.5
68.3	68.3	68.3
52.2	52.2	52.2
49.5	49.5	49.5

2-3 o'clock dB(A)	3-4 o'clock dB(A)	4-5 o'clock dB(A)	5-6 o'clock dB(A)	
	57.3	57.3	57.3	57.3
	66.9	66.9	66.9	66.9
	71.1	71.1	71.1	71.1
	66.1	66.1	66.1	66.1
	50.6	50.6	50.6	50.6
	49.2	49.2	49.2	49.2
	69.4	69.4	69.4	69.4
	70.2	70.2	70.2	70.2
	50.1	50.1	50.1	50.1
	49.7	49.7	49.7	49.7
	47.1	47.1	47.1	47.1
	54.1	54.1	54.1	54.1
	53.9	53.9	53.9	53.9
	58.8	58.8	58.8	58.8
	74.1	74.1	74.1	74.1
	67.5	67.5	67.5	67.5
	68.3	68.3	68.3	68.3
	52.2	52.2	52.2	52.2
	49.5	49.5	49.5	49.5

6-7 o'clock dB(A)	7-8 o'clock dB(A)	8-9 o'clock dB(A)	9-10 o'clock dB(A)	
	57.3	60.3	60.3	60.3
	66.9	69.9	69.9	69.9
	71.1	74.1	74.1	74.1
	66.1	69.1	69.1	69.1
	50.6	53.6	53.6	53.6
	49.2	52.2	52.2	52.2
	69.4	72.4	72.4	72.4
	70.2	73.2	73.2	73.2
	50.1	53.1	53.1	53.1
	49.7	52.7	52.7	52.7
	47.1	50.1	50.1	50.1
	54.1	57.1	57.1	57.1
	53.9	56.9	56.9	56.9
	58.8	61.8	61.8	61.8
	74.1	77.1	77.1	77.1
	67.5	70.5	70.5	70.5
	68.3	71.3	71.3	71.3
	52.2	55.2	55.2	55.2
	49.5	52.5	52.5	52.5

10-11 o'clock dB(A)	11-12 o'clock dB(A)	12-13 o'clock dB(A)	13-14 o'clock dB(A)
60.3	60.3	60.3	60.3
69.9	69.9	69.9	69.9
74.1	74.1	74.1	74.1
69.1	69.1	69.1	69.1
53.6	53.6	53.6	53.6
52.2	52.2	52.2	52.2
72.4	72.4	72.4	72.4
73.2	73.2	73.2	73.2
53.1	53.1	53.1	53.1
52.7	52.7	52.7	52.7
50.1	50.1	50.1	50.1
57.1	57.1	57.1	57.1
56.9	56.9	56.9	56.9
61.8	61.8	61.8	61.8
77.1	77.1	77.1	77.1
70.5	70.5	70.5	70.5
71.3	71.3	71.3	71.3
55.2	55.2	55.2	55.2
52.5	52.5	52.5	52.5

14-15 o'clock dB(A)	15-16 o'clock dB(A)	16-17 o'clock dB(A)	17-18 o'clock dB(A)
60.3	60.3	60.3	60.3
69.9	69.9	69.9	69.9
74.1	74.1	74.1	74.1
69.1	69.1	69.1	69.1
53.6	53.6	53.6	53.6
52.2	52.2	52.2	52.2
72.4	72.4	72.4	72.4
73.2	73.2	73.2	73.2
53.1	53.1	53.1	53.1
52.7	52.7	52.7	52.7
50.1	50.1	50.1	50.1
57.1	57.1	57.1	57.1
56.9	56.9	56.9	56.9
61.8	61.8	61.8	61.8
77.1	77.1	77.1	77.1
70.5	70.5	70.5	70.5
71.3	71.3	71.3	71.3
55.2	55.2	55.2	55.2
52.5	52.5	52.5	52.5

18-19 o'clock dB(A)	19-20 o'clock dB(A)	20-21 o'clock dB(A)	21-22 o'clock dB(A)	
60.3		59.1	56.1	56.1
69.9		68.6	65.7	65.7
74.1		72.9	69.9	69.9
69.1		67.8	64.9	64.9
53.6		52.4	49.4	49.4
52.2		50.9	48	48
72.4		71.1	68.2	68.2
73.2		72	69	69
53.1		51.8	48.9	48.9
52.7		51.5	48.5	48.5
50.1		48.9	45.9	45.9
57.1		55.9	52.9	52.9
56.9		55.6	52.7	52.7
61.8		60.5	57.6	57.6
77.1		75.8	72.9	72.9
70.5		69.3	66.3	66.3
71.3		70.1	67.1	67.1
55.2		53.9	51	51
52.5		51.3	48.3	48.3

22-23 o'clock dB(A)	23-24 o'clock dB(A)
54.3	57.3
63.9	66.9
68.1	71.1
63.1	66.1
47.6	50.6
46.2	49.2
66.4	69.4
67.2	70.2
47	50.1
46.7	49.7
44.1	47.1
51.1	54.1
50.9	53.9
55.8	58.8
71.1	74.1
64.5	67.5
65.3	68.3
49.2	52.2
46.5	49.5

Phase 4

Receiver	FI	CNEL/dB(A)	Ld/dB(A)	Le/dB(A)	
Kelso Elementary	G		75	71.2	67.7
Site 1	G		74.3	70.5	66.9
Site 2	G		78.7	74.9	71.4
Site 3	G		77.6	73.8	70.2
Site 4	G		78.1	74.3	70.8
Site 5	G		60.8	57	53.5
Site A	G		76.8	73	69.4
Site B	G		78.2	74.4	70.9
Site C	G		78	74.2	70.6
Site D	G		61.8	58	54.5
Site E	G		60.6	56.8	53.2
Site F	G		70.7	66.9	63.4
Site G	G		71.1	67.3	63.7
Site H	G		72.8	69	65.4
Site I	G		81.6	77.8	74.2
Site J	G		75	71.2	67.6
Site K	G		75.7	71.9	68.4
Site L	G		60.9	57.1	53.5
Site M	G		60	56.2	52.6

Ln/dB(A)	Ldaytime/dB(A)	Lnighttime/dB(A)	Hourly (da/dB(A))
68.2	71.2	67.8	71.2
67.5	70.4	67.1	70.5
71.9	74.8	71.5	74.9
70.8	73.7	70.4	73.8
71.3	74.2	70.9	74.3
54	56.9	53.6	57
70	72.9	69.6	73
71.4	74.4	71	74.4
71.2	74.1	70.8	74.2
55	57.9	54.6	58
53.7	56.7	53.3	56.8
63.9	66.9	63.5	66.9
64.3	67.2	63.9	67.3
66	68.9	65.5	69
74.8	77.7	74.4	77.8
68.2	71.1	67.7	71.2
68.9	71.8	68.5	71.9
54	57	53.6	57.1
53.2	56.1	52.8	56.2

Hourly (ni/dB(A))	0-1 o'clock dB(A)	1-2 o'clock dB(A)
68.2	68.2	68.2
67.5	67.5	67.5
71.9	71.9	71.9
70.8	70.8	70.8
71.3	71.3	71.3
54	54	54
70	70	70
71.4	71.4	71.4
71.2	71.2	71.2
55	55	55
53.7	53.7	53.7
63.9	63.9	63.9
64.3	64.3	64.3
66	66	66
74.8	74.8	74.8
68.2	68.2	68.2
68.9	68.9	68.9
54	54	54
53.2	53.2	53.2

2-3 o'clock dB(A)	3-4 o'clock dB(A)	4-5 o'clock dB(A)	5-6 o'clock dB(A)
68.2	68.2	68.2	68.2
67.5	67.5	67.5	67.5
71.9	71.9	71.9	71.9
70.8	70.8	70.8	70.8
71.3	71.3	71.3	71.3
54	54	54	54
70	70	70	70
71.4	71.4	71.4	71.4
71.2	71.2	71.2	71.2
55	55	55	55
53.7	53.7	53.7	53.7
63.9	63.9	63.9	63.9
64.3	64.3	64.3	64.3
66	66	66	66
74.8	74.8	74.8	74.8
68.2	68.2	68.2	68.2
68.9	68.9	68.9	68.9
54	54	54	54
53.2	53.2	53.2	53.2

6-7 o'clock dB(A)	7-8 o'clock dB(A)	8-9 o'clock dB(A)	9-10 o'clock dB(A)
68.2	71.2	71.2	71.2
67.5	70.5	70.5	70.5
71.9	74.9	74.9	74.9
70.8	73.8	73.8	73.8
71.3	74.3	74.3	74.3
54	57	57	57
70	73	73	73
71.4	74.4	74.4	74.4
71.2	74.2	74.2	74.2
55	58	58	58
53.7	56.8	56.8	56.8
63.9	66.9	66.9	66.9
64.3	67.3	67.3	67.3
66	69	69	69
74.8	77.8	77.8	77.8
68.2	71.2	71.2	71.2
68.9	71.9	71.9	71.9
54	57.1	57.1	57.1
53.2	56.2	56.2	56.2

10-11 o'clock dB(A)	11-12 o'clock dB(A)	12-13 o'clock dB(A)	13-14 o'clock dB(A)
71.2	71.2	71.2	71.2
70.5	70.5	70.5	70.5
74.9	74.9	74.9	74.9
73.8	73.8	73.8	73.8
74.3	74.3	74.3	74.3
57	57	57	57
73	73	73	73
74.4	74.4	74.4	74.4
74.2	74.2	74.2	74.2
58	58	58	58
56.8	56.8	56.8	56.8
66.9	66.9	66.9	66.9
67.3	67.3	67.3	67.3
69	69	69	69
77.8	77.8	77.8	77.8
71.2	71.2	71.2	71.2
71.9	71.9	71.9	71.9
57.1	57.1	57.1	57.1
56.2	56.2	56.2	56.2

14-15 o'clock dB(A)	15-16 o'clock dB(A)	16-17 o'clock dB(A)	17-18 o'clock dB(A)
71.2	71.2	71.2	71.2
70.5	70.5	70.5	70.5
74.9	74.9	74.9	74.9
73.8	73.8	73.8	73.8
74.3	74.3	74.3	74.3
57	57	57	57
73	73	73	73
74.4	74.4	74.4	74.4
74.2	74.2	74.2	74.2
58	58	58	58
56.8	56.8	56.8	56.8
66.9	66.9	66.9	66.9
67.3	67.3	67.3	67.3
69	69	69	69
77.8	77.8	77.8	77.8
71.2	71.2	71.2	71.2
71.9	71.9	71.9	71.9
57.1	57.1	57.1	57.1
56.2	56.2	56.2	56.2

18-19 o'clock dB(A)	19-20 o'clock dB(A)	20-21 o'clock dB(A)	21-22 o'clock dB(A)
71.2	70	67	67
70.5	69.2	66.3	66.3
74.9	73.7	70.7	70.7
73.8	72.6	69.6	69.6
74.3	73.1	70.1	70.1
57	55.8	52.8	52.8
73	71.8	68.8	68.8
74.4	73.2	70.2	70.2
74.2	72.9	70	70
58	56.8	53.8	53.8
56.8	55.5	52.6	52.6
66.9	65.7	62.7	62.7
67.3	66	63.1	63.1
69	67.7	64.8	64.8
77.8	76.5	73.6	73.6
71.2	69.9	67	67
71.9	70.7	67.7	67.7
57.1	55.8	52.9	52.9
56.2	55	52	52

22-23 o'clock dB(A)	23-24 o'clock dB(A)
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65.2	68.2
64.5	67.5
68.9	71.9
67.8	70.8
68.3	71.3
51	54
67	70
68.4	71.4
68.2	71.2
52	55
50.7	53.7
60.9	63.9
61.3	64.3
62.9	66
71.8	74.8
65.1	68.2
65.9	68.9
51	54
50.2	53.2

Phase 5

Receiver	FI	CNEL/dB(A)	Ld/dB(A)	Le/dB(A)	
Kelso Elementary	G		75.2	71.4	67.8
Site 1	G		74.5	70.7	67.1
Site 2	G		78.2	74.4	70.9
Site 3	G		77.7	73.9	70.3
Site 4	G		78.3	74.5	71
Site 5	G		60.5	56.7	53.1
Site A	G		77	73.2	69.6
Site B	G		78.4	74.6	71
Site C	G		78.2	74.4	70.8
Site D	G		61.5	57.7	54.1
Site E	G		60.7	56.9	53.3
Site F	G		70.9	67.1	63.5
Site G	G		71.1	67.3	63.8
Site H	G		72.7	68.9	65.3
Site I	G		74.8	71	67.4
Site J	G		75.1	71.3	67.7
Site K	G		75.9	72.1	68.5
Site L	G		59.6	55.8	52.3
Site M	G		59.8	56	52.4

Ln/dB(A)	Ldaytime/dB(A)	Lnighttime/dB(A)	Hourly (da/dB(A)	
68.4	71.3	68	71.4	
67.6	70.6	67.2	70.7	
71.4	74.4	71	74.4	
70.9	73.8	70.4	73.9	
71.5	74.4	71.1	74.5	
53.7	56.6	53.3	56.7	
70.2	73.1	69.8	73.2	
71.6	74.5	71.2	74.6	
71.4	74.3	71	74.4	
54.7	57.6	54.3	57.7	
53.9	56.8	53.5	56.9	
64	67	63.6	67.1	
64.3	67.3	63.9	67.3	
65.9	68.8	65.5	68.9	
68	70.9	67.6	71	
68.3	71.2	67.8	71.3	
69.1	72	68.7	72.1	
52.8	55.8	52.4	55.8	
53	55.9	52.6	56	

Hourly (ni/dB(A))	0-1 o'clock dB(A)	1-2 o'clock dB(A)
68.4	68.4	68.4
67.6	67.6	67.6
71.4	71.4	71.4
70.9	70.9	70.9
71.5	71.5	71.5
53.7	53.7	53.7
70.2	70.2	70.2
71.6	71.6	71.6
71.4	71.4	71.4
54.7	54.7	54.7
53.9	53.9	53.9
64	64	64
64.3	64.3	64.3
65.9	65.9	65.9
68	68	68
68.3	68.3	68.3
69.1	69.1	69.1
52.8	52.8	52.8
53	53	53

2-3 o'clock dB(A)	3-4 o'clock dB(A)	4-5 o'clock dB(A)	5-6 o'clock dB(A)
68.4	68.4	68.4	68.4
67.6	67.6	67.6	67.6
71.4	71.4	71.4	71.4
70.9	70.9	70.9	70.9
71.5	71.5	71.5	71.5
53.7	53.7	53.7	53.7
70.2	70.2	70.2	70.2
71.6	71.6	71.6	71.6
71.4	71.4	71.4	71.4
54.7	54.7	54.7	54.7
53.9	53.9	53.9	53.9
64	64	64	64
64.3	64.3	64.3	64.3
65.9	65.9	65.9	65.9
68	68	68	68
68.3	68.3	68.3	68.3
69.1	69.1	69.1	69.1
52.8	52.8	52.8	52.8
53	53	53	53

6-7 o'clock dB(A)	7-8 o'clock dB(A)	8-9 o'clock dB(A)	9-10 o'clock dB(A)
68.4	71.4	71.4	71.4
67.6	70.7	70.7	70.7
71.4	74.4	74.4	74.4
70.9	73.9	73.9	73.9
71.5	74.5	74.5	74.5
53.7	56.7	56.7	56.7
70.2	73.2	73.2	73.2
71.6	74.6	74.6	74.6
71.4	74.4	74.4	74.4
54.7	57.7	57.7	57.7
53.9	56.9	56.9	56.9
64	67.1	67.1	67.1
64.3	67.3	67.3	67.3
65.9	68.9	68.9	68.9
68	71	71	71
68.3	71.3	71.3	71.3
69.1	72.1	72.1	72.1
52.8	55.8	55.8	55.8
53	56	56	56

10-11 o'clock dB(A)	11-12 o'clock dB(A)	12-13 o'clock dB(A)	13-14 o'clock dB(A)
71.4	71.4	71.4	71.4
70.7	70.7	70.7	70.7
74.4	74.4	74.4	74.4
73.9	73.9	73.9	73.9
74.5	74.5	74.5	74.5
56.7	56.7	56.7	56.7
73.2	73.2	73.2	73.2
74.6	74.6	74.6	74.6
74.4	74.4	74.4	74.4
57.7	57.7	57.7	57.7
56.9	56.9	56.9	56.9
67.1	67.1	67.1	67.1
67.3	67.3	67.3	67.3
68.9	68.9	68.9	68.9
71	71	71	71
71.3	71.3	71.3	71.3
72.1	72.1	72.1	72.1
55.8	55.8	55.8	55.8
56	56	56	56

14-15 o'clock dB(A)	15-16 o'clock dB(A)	16-17 o'clock dB(A)	17-18 o'clock dB(A)
71.4	71.4	71.4	71.4
70.7	70.7	70.7	70.7
74.4	74.4	74.4	74.4
73.9	73.9	73.9	73.9
74.5	74.5	74.5	74.5
56.7	56.7	56.7	56.7
73.2	73.2	73.2	73.2
74.6	74.6	74.6	74.6
74.4	74.4	74.4	74.4
57.7	57.7	57.7	57.7
56.9	56.9	56.9	56.9
67.1	67.1	67.1	67.1
67.3	67.3	67.3	67.3
68.9	68.9	68.9	68.9
71	71	71	71
71.3	71.3	71.3	71.3
72.1	72.1	72.1	72.1
55.8	55.8	55.8	55.8
56	56	56	56

18-19 o'clock dB(A)	19-20 o'clock dB(A)	20-21 o'clock dB(A)	21-22 o'clock dB(A)
71.4	70.1	67.2	67.2
70.7	69.4	66.5	66.5
74.4	73.2	70.2	70.2
73.9	72.6	69.7	69.7
74.5	73.3	70.3	70.3
56.7	55.4	52.5	52.5
73.2	71.9	69	69
74.6	73.3	70.4	70.4
74.4	73.1	70.2	70.2
57.7	56.4	53.5	53.5
56.9	55.6	52.7	52.7
67.1	65.8	62.9	62.9
67.3	66.1	63.1	63.1
68.9	67.6	64.7	64.7
71	69.7	66.8	66.8
71.3	70	67.1	67.1
72.1	70.9	67.9	67.9
55.8	54.6	51.6	51.6
56	54.7	51.8	51.8

22-23 o'clock dB(A)	23-24 o'clock dB(A)
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65.4	68.4
64.6	67.6
68.4	71.4
67.8	70.9
68.5	71.5
50.7	53.7
67.1	70.2
68.6	71.6
68.4	71.4
51.7	54.7
50.9	53.9
61	64
61.3	64.3
62.9	65.9
64.9	68
65.2	68.3
66.1	69.1
49.8	52.8
50	53

Phase 6

Receiver	FI	CNEL/dB(A)	Ld/dB(A)	Le/dB(A)	
Kelso Elementary	G		73.3	69.5	65.9
Site 1	G		70.5	66.7	63.1
Site 2	G		76.6	72.8	69.3
Site 3	G		75.8	72	68.4
Site 4	G		76.4	72.6	69.1
Site 5	G		58.6	54.8	51.3
Site A	G		63.2	59.4	55.8
Site B	G		76.5	72.7	69.1
Site C	G		76.3	72.5	68.9
Site D	G		59.7	55.9	52.3
Site E	G		58.7	54.9	51.4
Site F	G		69	65.2	61.6
Site G	G		69.3	65.5	61.9
Site H	G		70.8	67	63.5
Site I	G		78.8	75	71.4
Site J	G		69.2	65.4	61.8
Site K	G		66	62.2	58.6
Site L	G		57.9	54.1	50.5
Site M	G		57.8	54	50.4

Ln/dB(A)	Ldaytime/dB(A)	Lnighttime/dB(A)	Hourly (da/dB(A))
66.5	69.4	66.1	69.5
63.7	66.6	63.2	66.7
69.8	72.8	69.4	72.8
69	71.9	68.6	72
69.6	72.5	69.2	72.6
51.8	54.7	51.4	54.8
56.4	59.3	56	59.4
69.7	72.6	69.3	72.7
69.5	72.4	69.1	72.5
52.9	55.8	52.5	55.9
51.9	54.9	51.5	54.9
62.2	65.1	61.7	65.2
62.4	65.4	62	65.5
64	66.9	63.6	67
72	74.9	71.5	75
62.4	65.3	62	65.4
59.2	62.1	58.8	62.2
51.1	54	50.7	54.1
50.9	53.9	50.5	54

Hourly (ni/dB(A))	0-1 o'clock dB(A)	1-2 o'clock dB(A)
66.5	66.5	66.5
63.7	63.7	63.7
69.8	69.8	69.8
69	69	69
69.6	69.6	69.6
51.8	51.8	51.8
56.4	56.4	56.4
69.7	69.7	69.7
69.5	69.5	69.5
52.9	52.9	52.9
51.9	51.9	51.9
62.2	62.2	62.2
62.4	62.4	62.4
64	64	64
72	72	72
62.4	62.4	62.4
59.2	59.2	59.2
51.1	51.1	51.1
50.9	50.9	50.9

2-3 o'clock dB(A)	3-4 o'clock dB(A)	4-5 o'clock dB(A)	5-6 o'clock dB(A)
66.5	66.5	66.5	66.5
63.7	63.7	63.7	63.7
69.8	69.8	69.8	69.8
69	69	69	69
69.6	69.6	69.6	69.6
51.8	51.8	51.8	51.8
56.4	56.4	56.4	56.4
69.7	69.7	69.7	69.7
69.5	69.5	69.5	69.5
52.9	52.9	52.9	52.9
51.9	51.9	51.9	51.9
62.2	62.2	62.2	62.2
62.4	62.4	62.4	62.4
64	64	64	64
72	72	72	72
62.4	62.4	62.4	62.4
59.2	59.2	59.2	59.2
51.1	51.1	51.1	51.1
50.9	50.9	50.9	50.9

6-7 o'clock dB(A)	7-8 o'clock dB(A)	8-9 o'clock dB(A)	9-10 o'clock dB(A)
66.5	69.5	69.5	69.5
63.7	66.7	66.7	66.7
69.8	72.8	72.8	72.8
69	72	72	72
69.6	72.6	72.6	72.6
51.8	54.8	54.8	54.8
56.4	59.4	59.4	59.4
69.7	72.7	72.7	72.7
69.5	72.5	72.5	72.5
52.9	55.9	55.9	55.9
51.9	54.9	54.9	54.9
62.2	65.2	65.2	65.2
62.4	65.5	65.5	65.5
64	67	67	67
72	75	75	75
62.4	65.4	65.4	65.4
59.2	62.2	62.2	62.2
51.1	54.1	54.1	54.1
50.9	54	54	54

10-11 o'clock dB(A)	11-12 o'clock dB(A)	12-13 o'clock dB(A)	13-14 o'clock dB(A)
69.5	69.5	69.5	69.5
66.7	66.7	66.7	66.7
72.8	72.8	72.8	72.8
72	72	72	72
72.6	72.6	72.6	72.6
54.8	54.8	54.8	54.8
59.4	59.4	59.4	59.4
72.7	72.7	72.7	72.7
72.5	72.5	72.5	72.5
55.9	55.9	55.9	55.9
54.9	54.9	54.9	54.9
65.2	65.2	65.2	65.2
65.5	65.5	65.5	65.5
67	67	67	67
75	75	75	75
65.4	65.4	65.4	65.4
62.2	62.2	62.2	62.2
54.1	54.1	54.1	54.1
54	54	54	54

14-15 o'clock dB(A)	15-16 o'clock dB(A)	16-17 o'clock dB(A)	17-18 o'clock dB(A)
69.5	69.5	69.5	69.5
66.7	66.7	66.7	66.7
72.8	72.8	72.8	72.8
72	72	72	72
72.6	72.6	72.6	72.6
54.8	54.8	54.8	54.8
59.4	59.4	59.4	59.4
72.7	72.7	72.7	72.7
72.5	72.5	72.5	72.5
55.9	55.9	55.9	55.9
54.9	54.9	54.9	54.9
65.2	65.2	65.2	65.2
65.5	65.5	65.5	65.5
67	67	67	67
75	75	75	75
65.4	65.4	65.4	65.4
62.2	62.2	62.2	62.2
54.1	54.1	54.1	54.1
54	54	54	54

18-19 o'clock dB(A)	19-20 o'clock dB(A)	20-21 o'clock dB(A)	21-22 o'clock dB(A)
69.5	68.2	65.3	65.3
66.7	65.4	62.5	62.5
72.8	71.6	68.6	68.6
72	70.7	67.8	67.8
72.6	71.4	68.4	68.4
54.8	53.6	50.6	50.6
59.4	58.1	55.2	55.2
72.7	71.4	68.5	68.5
72.5	71.2	68.3	68.3
55.9	54.6	51.7	51.7
54.9	53.7	50.7	50.7
65.2	63.9	61	61
65.5	64.2	61.2	61.2
67	65.8	62.8	62.8
75	73.7	70.8	70.8
65.4	64.2	61.2	61.2
62.2	61	58	58
54.1	52.8	49.9	49.9
54	52.7	49.8	49.8

22-23 o'clock dB(A)	23-24 o'clock dB(A)
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63.5	66.5
60.6	63.7
66.8	69.8
66	69
66.6	69.6
48.8	51.8
53.4	56.4
66.7	69.7
66.5	69.5
49.9	52.9
48.9	51.9
59.1	62.2
59.4	62.4
61	64
68.9	72
59.4	62.4
56.2	59.2
48.1	51.1
47.9	50.9

Phase 7

Receiver	FI	CNEL/dB(A)	Ld/dB(A)	Le/dB(A)	
Kelso Elementary	G		64.8	61	57.4
Site 1	G		74.1	70.3	66.7
Site 2	G		70.3	66.5	62.9
Site 3	G		77.3	73.5	70
Site 4	G		58.8	55	51.4
Site 5	G		57.9	54.1	50.6
Site A	G		60.8	57	53.5
Site B	G		65.7	61.9	58.4
Site C	G		55.7	51.9	48.4
Site D	G		59	55.2	51.6
Site E	G		57.4	53.6	50.1
Site F	G		66	62.2	58.6
Site G	G		59.1	55.3	51.8
Site H	G		62.5	58.7	55.1
Site I	G		79.4	75.6	72
Site J	G		70.6	66.8	63.2
Site K	G		74	70.2	66.7
Site L	G		56.8	53	49.4
Site M	G		55.1	51.3	47.8

Ln/dB(A)	Ldaytime/dB(A)	Lnighttime/dB(A)	Hourly (da/dB(A)
58	60.9	57.6	61
67.3	70.2	66.9	70.3
63.4	66.4	63	66.5
70.5	73.5	70.1	73.5
52	54.9	51.6	55
51.1	54	50.7	54.1
54	56.9	53.6	57
58.9	61.9	58.5	61.9
48.9	51.9	48.5	51.9
52.2	55.1	51.8	55.2
50.6	53.5	50.2	53.6
59.2	62.1	58.8	62.2
52.3	55.2	51.9	55.3
55.6	58.6	55.2	58.7
72.6	75.5	72.2	75.6
63.8	66.7	63.4	66.8
67.2	70.1	66.8	70.2
49.9	52.9	49.5	53
48.3	51.2	47.9	51.3

Hourly (ni/dB(A))	0-1 o'clock dB(A)	1-2 o'clock dB(A)
58	58	58
67.3	67.3	67.3
63.4	63.4	63.4
70.5	70.5	70.5
52	52	52
51.1	51.1	51.1
54	54	54
58.9	58.9	58.9
48.9	48.9	48.9
52.2	52.2	52.2
50.6	50.6	50.6
59.2	59.2	59.2
52.3	52.3	52.3
55.6	55.6	55.6
72.6	72.6	72.6
63.8	63.8	63.8
67.2	67.2	67.2
49.9	49.9	49.9
48.3	48.3	48.3

2-3 o'clock dB(A)	3-4 o'clock dB(A)	4-5 o'clock dB(A)	5-6 o'clock dB(A)
58	58	58	58
67.3	67.3	67.3	67.3
63.4	63.4	63.4	63.4
70.5	70.5	70.5	70.5
52	52	52	52
51.1	51.1	51.1	51.1
54	54	54	54
58.9	58.9	58.9	58.9
48.9	48.9	48.9	48.9
52.2	52.2	52.2	52.2
50.6	50.6	50.6	50.6
59.2	59.2	59.2	59.2
52.3	52.3	52.3	52.3
55.6	55.6	55.6	55.6
72.6	72.6	72.6	72.6
63.8	63.8	63.8	63.8
67.2	67.2	67.2	67.2
49.9	49.9	49.9	49.9
48.3	48.3	48.3	48.3

6-7 o'clock dB(A)	7-8 o'clock dB(A)	8-9 o'clock dB(A)	9-10 o'clock dB(A)
58	61	61	61
67.3	70.3	70.3	70.3
63.4	66.5	66.5	66.5
70.5	73.5	73.5	73.5
52	55	55	55
51.1	54.1	54.1	54.1
54	57	57	57
58.9	61.9	61.9	61.9
48.9	51.9	51.9	51.9
52.2	55.2	55.2	55.2
50.6	53.6	53.6	53.6
59.2	62.2	62.2	62.2
52.3	55.3	55.3	55.3
55.6	58.7	58.7	58.7
72.6	75.6	75.6	75.6
63.8	66.8	66.8	66.8
67.2	70.2	70.2	70.2
49.9	53	53	53
48.3	51.3	51.3	51.3

10-11 o'clock dB(A)	11-12 o'clock dB(A)	12-13 o'clock dB(A)	13-14 o'clock dB(A)
61	61	61	61
70.3	70.3	70.3	70.3
66.5	66.5	66.5	66.5
73.5	73.5	73.5	73.5
55	55	55	55
54.1	54.1	54.1	54.1
57	57	57	57
61.9	61.9	61.9	61.9
51.9	51.9	51.9	51.9
55.2	55.2	55.2	55.2
53.6	53.6	53.6	53.6
62.2	62.2	62.2	62.2
55.3	55.3	55.3	55.3
58.7	58.7	58.7	58.7
75.6	75.6	75.6	75.6
66.8	66.8	66.8	66.8
70.2	70.2	70.2	70.2
53	53	53	53
51.3	51.3	51.3	51.3

14-15 o'clock dB(A)	15-16 o'clock dB(A)	16-17 o'clock dB(A)	17-18 o'clock dB(A)
61	61	61	61
70.3	70.3	70.3	70.3
66.5	66.5	66.5	66.5
73.5	73.5	73.5	73.5
55	55	55	55
54.1	54.1	54.1	54.1
57	57	57	57
61.9	61.9	61.9	61.9
51.9	51.9	51.9	51.9
55.2	55.2	55.2	55.2
53.6	53.6	53.6	53.6
62.2	62.2	62.2	62.2
55.3	55.3	55.3	55.3
58.7	58.7	58.7	58.7
75.6	75.6	75.6	75.6
66.8	66.8	66.8	66.8
70.2	70.2	70.2	70.2
53	53	53	53
51.3	51.3	51.3	51.3

18-19 o'clock dB(A)	19-20 o'clock dB(A)	20-21 o'clock dB(A)	21-22 o'clock dB(A)
61	59.7	56.8	56.8
70.3	69	66.1	66.1
66.5	65.2	62.2	62.2
73.5	72.3	69.3	69.3
55	53.8	50.8	50.8
54.1	52.9	49.9	49.9
57	55.8	52.8	52.8
61.9	60.7	57.7	57.7
51.9	50.7	47.7	47.7
55.2	53.9	51	51
53.6	52.4	49.4	49.4
62.2	60.9	58	58
55.3	54.1	51.1	51.1
58.7	57.4	54.4	54.4
75.6	74.3	71.4	71.4
66.8	65.5	62.6	62.6
70.2	69	66	66
53	51.7	48.7	48.7
51.3	50.1	47.1	47.1

22-23 o'clock dB(A)	23-24 o'clock dB(A)
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55	58
64.3	67.3
60.4	63.4
67.5	70.5
49	52
48.1	51.1
51	54
55.9	58.9
45.9	48.9
49.2	52.2
47.6	50.6
56.2	59.2
49.3	52.3
52.6	55.6
69.6	72.6
60.8	63.8
64.2	67.2
46.9	49.9
45.3	48.3

Phase 8

Receiver	FI	CNEL/dB(A)	Ld/dB(A)	Le/dB(A)	
Kelso Elementary	G		80.3	76.5	72.9
Site 1	G		79.6	75.8	72.2
Site 2	G		83.3	79.5	76
Site 3	G		82.8	79	75.4
Site 4	G		83.4	79.6	76.1
Site 5	G		65.6	61.8	58.2
Site A	G		82.1	78.3	74.7
Site B	G		83.5	79.7	76.1
Site C	G		83.3	79.5	75.9
Site D	G		66.6	62.8	59.2
Site E	G		65.8	62	58.4
Site F	G		76	72.2	68.6
Site G	G		76.2	72.4	68.9
Site H	G		77.8	74	70.4
Site I	G		79.9	76.1	72.5
Site J	G		80.2	76.4	72.8
Site K	G		81	77.2	73.6
Site L	G		64.7	60.9	57.4
Site M	G		64.9	61.1	57.5

Ln/dB(A)	Ldaytime/dB(A)	Lnighttime/dB(A)	Hourly (da/dB(A)	
	73.5	76.4	73.1	76.5
	72.7	75.7	72.3	75.8
	76.5	79.5	76.1	79.5
	76	78.9	75.5	79
	76.6	79.5	76.2	79.6
	58.8	61.7	58.4	61.8
	75.3	78.2	74.9	78.3
	76.7	79.6	76.3	79.7
	76.5	79.4	76.1	79.5
	59.8	62.7	59.4	62.8
	59	61.9	58.6	62
	69.1	72.1	68.7	72.2
	69.4	72.4	69	72.4
	71	73.9	70.6	74
	73.1	76	72.7	76.1
	73.4	76.3	72.9	76.4
	74.2	77.1	73.8	77.2
	57.9	60.9	57.5	60.9
	58.1	61	57.7	61.1

Hourly (ni/dB(A))	0-1 o'clock dB(A)	1-2 o'clock dB(A)
73.5	73.5	73.5
72.7	72.7	72.7
76.5	76.5	76.5
76	76	76
76.6	76.6	76.6
58.8	58.8	58.8
75.3	75.3	75.3
76.7	76.7	76.7
76.5	76.5	76.5
59.8	59.8	59.8
59	59	59
69.1	69.1	69.1
69.4	69.4	69.4
71	71	71
73.1	73.1	73.1
73.4	73.4	73.4
74.2	74.2	74.2
57.9	57.9	57.9
58.1	58.1	58.1

2-3 o'clock dB(A)	3-4 o'clock dB(A)	4-5 o'clock dB(A)	5-6 o'clock dB(A)
73.5	73.5	73.5	73.5
72.7	72.7	72.7	72.7
76.5	76.5	76.5	76.5
76	76	76	76
76.6	76.6	76.6	76.6
58.8	58.8	58.8	58.8
75.3	75.3	75.3	75.3
76.7	76.7	76.7	76.7
76.5	76.5	76.5	76.5
59.8	59.8	59.8	59.8
59	59	59	59
69.1	69.1	69.1	69.1
69.4	69.4	69.4	69.4
71	71	71	71
73.1	73.1	73.1	73.1
73.4	73.4	73.4	73.4
74.2	74.2	74.2	74.2
57.9	57.9	57.9	57.9
58.1	58.1	58.1	58.1

6-7 o'clock dB(A)	7-8 o'clock dB(A)	8-9 o'clock dB(A)	9-10 o'clock dB(A)
73.5	76.5	76.5	76.5
72.7	75.8	75.8	75.8
76.5	79.5	79.5	79.5
76	79	79	79
76.6	79.6	79.6	79.6
58.8	61.8	61.8	61.8
75.3	78.3	78.3	78.3
76.7	79.7	79.7	79.7
76.5	79.5	79.5	79.5
59.8	62.8	62.8	62.8
59	62	62	62
69.1	72.2	72.2	72.2
69.4	72.4	72.4	72.4
71	74	74	74
73.1	76.1	76.1	76.1
73.4	76.4	76.4	76.4
74.2	77.2	77.2	77.2
57.9	60.9	60.9	60.9
58.1	61.1	61.1	61.1

10-11 o'clock dB(A)	11-12 o'clock dB(A)	12-13 o'clock dB(A)	13-14 o'clock dB(A)
76.5	76.5	76.5	76.5
75.8	75.8	75.8	75.8
79.5	79.5	79.5	79.5
79	79	79	79
79.6	79.6	79.6	79.6
61.8	61.8	61.8	61.8
78.3	78.3	78.3	78.3
79.7	79.7	79.7	79.7
79.5	79.5	79.5	79.5
62.8	62.8	62.8	62.8
62	62	62	62
72.2	72.2	72.2	72.2
72.4	72.4	72.4	72.4
74	74	74	74
76.1	76.1	76.1	76.1
76.4	76.4	76.4	76.4
77.2	77.2	77.2	77.2
60.9	60.9	60.9	60.9
61.1	61.1	61.1	61.1

14-15 o'clock dB(A)	15-16 o'clock dB(A)	16-17 o'clock dB(A)	17-18 o'clock dB(A)
76.5	76.5	76.5	76.5
75.8	75.8	75.8	75.8
79.5	79.5	79.5	79.5
79	79	79	79
79.6	79.6	79.6	79.6
61.8	61.8	61.8	61.8
78.3	78.3	78.3	78.3
79.7	79.7	79.7	79.7
79.5	79.5	79.5	79.5
62.8	62.8	62.8	62.8
62	62	62	62
72.2	72.2	72.2	72.2
72.4	72.4	72.4	72.4
74	74	74	74
76.1	76.1	76.1	76.1
76.4	76.4	76.4	76.4
77.2	77.2	77.2	77.2
60.9	60.9	60.9	60.9
61.1	61.1	61.1	61.1

18-19 o'clock dB(A)	19-20 o'clock dB(A)	20-21 o'clock dB(A)	21-22 o'clock dB(A)
76.5	75.2	72.3	72.3
75.8	74.5	71.6	71.6
79.5	78.3	75.3	75.3
79	77.7	74.8	74.8
79.6	78.4	75.4	75.4
61.8	60.5	57.6	57.6
78.3	77	74.1	74.1
79.7	78.4	75.5	75.5
79.5	78.2	75.3	75.3
62.8	61.5	58.6	58.6
62	60.7	57.8	57.8
72.2	70.9	68	68
72.4	71.2	68.2	68.2
74	72.7	69.8	69.8
76.1	74.8	71.9	71.9
76.4	75.1	72.2	72.2
77.2	76	73	73
60.9	59.7	56.7	56.7
61.1	59.8	56.9	56.9

22-23 o'clock dB(A)	23-24 o'clock dB(A)
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70.5	73.5
69.7	72.7
73.5	76.5
72.9	76
73.6	76.6
55.8	58.8
72.2	75.3
73.7	76.7
73.5	76.5
56.8	59.8
56	59
66.1	69.1
66.4	69.4
68	71
70	73.1
70.3	73.4
71.2	74.2
54.9	57.9
55.1	58.1



N.5

Construction Vibration Worksheets



Equipment		Pieces of Equipment	PPV at 25 feet (in/sec)	Distance from Equipment	PPV at adjusted distance	RMS velocity amplitude in in/sec at adjusted distance ^a	RMS Vibration level in VdB at adjusted distance
Caisson drilling		1	0.089	45	0.037	0.009	79
Jackhammer		1	0.035	45	0.014	0.004	71
Large bulldozer		1	0.089	45	0.037	0.009	79
Loaded trucks		1	0.076	45	0.031	0.008	78
Pile Drive (impact)		1	0.644	45	0.267	0.067	96
Vibratory Roller		1	0.210	45	0.087	0.022	87
Small bulldozer		1	0.003	45	0.001	0.000	50

* Suggested Vibration Thresholds per the Federal Transit Administration, United States Department of Transportation, Transit Noise and Vibration Impact Assessment

Equipment		Pieces of Equipment	PPV at 25 feet (in/sec)	Distance from Equipment	PPV at adjusted distance	RMS velocity amplitude in in/sec at adjusted distance ^a	RMS Vibration level in VdB at adjusted distance
Caisson drilling		1	0.089	70	0.019	0.005	74
Jackhammer		4	0.035	70	0.030	0.007	77
Large bulldozer		1	0.089	70	0.019	0.005	74
Loaded trucks		1	0.076	70	0.016	0.004	72
Pile Drive (impact)		1	0.644	70	0.137	0.034	91
Vibratory Roller		1	0.210	70	0.045	0.011	81
Small bulldozer		1	0.003	70	0.001	0.000	44

* Suggested Vibration Thresholds per the Federal Transit Administration, United States Department of Transportation, Transit Noise and Vibration Impact Assessment

Equipment		Pieces of Equipment	PPV at 25 feet (in/sec)	Distance from Equipment	PPV at adjusted distance	RMS velocity amplitude in in/sec at adjusted distance ^a	RMS Vibration level in VdB at adjusted distance
Caisson drilling		1	0.089	135	0.007	0.002	65
Jackhammer		4	0.035	135	0.011	0.003	69
Large bulldozer		1	0.089	135	0.007	0.002	65
Loaded trucks		1	0.076	135	0.006	0.002	64
Pile Drive (impact)		1	0.644	135	0.051	0.013	82
Vibratory Roller		1	0.210	135	0.017	0.004	72
Small bulldozer		1	0.003	135	0.000	0.000	36

* Suggested Vibration Thresholds per the Federal Transit Administration, United States Department of Transportation, Transit Noise and Vibration Impact Assessment

Equipment		Pieces of Equipment	PPV at 25 feet (in/sec)	Distance from Equipment	PPV at adjusted distance	RMS velocity amplitude in in/sec at adjusted distance ^a	RMS Vibration level in VdB at adjusted distance
Caisson drilling		1	0.089	30	0.068	0.017	85
Jackhammer		4	0.035	30	0.107	0.027	89
Large bulldozer		1	0.089	30	0.068	0.017	85
Loaded trucks		1	0.076	30	0.058	0.014	83
Pile Drive (impact)		1	0.644	30	0.490	0.122	102
Vibratory Roller		1	0.210	30	0.160	0.040	92
Small bulldozer		1	0.003	30	0.002	0.001	55

*** Suggested Vibration Thresholds per the Federal Transit Administration, United States Department of Transportation, Transit Noise and Vibration Impact Assessment**

Equipment		Pieces of Equipment	PPV at 25 feet (in/sec)	Distance from Equipment	PPV at adjusted distance	RMS velocity amplitude in in/sec at adjusted distance ^a	RMS Vibration level in VdB at adjusted distance
Caisson drilling		1	0.089	75	0.017	0.004	73
Jackhammer		4	0.035	75	0.027	0.007	77
Large bulldozer		1	0.089	75	0.017	0.004	73
Loaded trucks		1	0.076	75	0.015	0.004	71
Pile Drive (impact)		1	0.644	75	0.124	0.031	90
Vibratory Roller		1	0.210	75	0.040	0.010	80
Small bulldozer		1	0.003	75	0.001	0.000	43

* Suggested Vibration Thresholds per the Federal Transit Administration, United States Department of Transportation, Transit Noise and Vibration Impact Assessment

Equipment		Pieces of Equipment	PPV at 25 feet (in/sec)	Distance from Equipment	PPV at adjusted distance	RMS velocity amplitude in in/sec at adjusted distance ^a	RMS Vibration level in VdB at adjusted distance
Caisson drilling		1	0.089	40	0.044	0.011	81
Jackhammer		4	0.035	40	0.069	0.017	85
Large bulldozer		1	0.089	40	0.044	0.011	81
Loaded trucks		1	0.076	40	0.038	0.009	79
Pile Drive (impact)		1	0.644	40	0.318	0.080	98
Vibratory Roller		1	0.210	40	0.104	0.026	88
Small bulldozer		1	0.003	40	0.001	0.000	51

*** Suggested Vibration Thresholds per the Federal Transit Administration, United States Department of Transportation, Transit Noise and Vibration Impact Assessment**

Equipment		Pieces of Equipment	PPV at 25 feet (in/sec)	Distance from Equipment	PPV at adjusted distance	RMS velocity amplitude in in/sec at adjusted distance ^a	RMS Vibration level in VdB at adjusted distance
Caisson drilling		1	0.089	355	0.002	0.000	52
Jackhammer		4	0.035	355	0.003	0.001	56
Large bulldozer		1	0.089	355	0.002	0.000	52
Loaded trucks		1	0.076	355	0.001	0.000	51
Pile Drive (impact)		1	0.644	355	0.012	0.003	70
Vibratory Roller		1	0.210	355	0.004	0.001	60
Small bulldozer		1	0.003	355	0.000	0.000	23

*** Suggested Vibration Thresholds per the Federal Transit Administration, United States Department of Transportation, Transit Noise and Vibration Impact Assessment**

Equipment		Pieces of Equipment	PPV at 25 feet (in/sec)	Distance from Equipment	PPV at adjusted distance	RMS velocity amplitude in in/sec at adjusted distance ^a	RMS Vibration level in VdB at adjusted distance
Caisson drilling		1	0.089	380	0.002	0.000	51
Jackhammer		4	0.035	380	0.002	0.001	55
Large bulldozer		1	0.089	380	0.002	0.000	51
Loaded trucks		1	0.076	380	0.001	0.000	50
Pile Drive (impact)		1	0.644	380	0.011	0.003	69
Vibratory Roller		1	0.210	380	0.004	0.001	59
Small bulldozer		1	0.003	380	0.000	0.000	22

*** Suggested Vibration Thresholds per the Federal Transit Administration, United States Department of Transportation, Transit Noise and Vibration Impact Assessment**

Equipment		Pieces of Equipment	PPV at 25 feet (in/sec)	Distance from Equipment	PPV at adjusted distance	RMS velocity amplitude in in/sec at adjusted distance ^a	RMS Vibration level in VdB at adjusted distance
Caisson drilling		1	0.089	135	0.007	0.002	65
Jackhammer		4	0.035	135	0.011	0.003	69
Large bulldozer		1	0.089	135	0.007	0.002	65
Loaded trucks		1	0.076	135	0.006	0.002	64
Pile Drive (impact)		1	0.644	135	0.051	0.013	82
Vibratory Roller		1	0.210	135	0.017	0.004	72
Small bulldozer		1	0.003	135	0.000	0.000	36

*** Suggested Vibration Thresholds per the Federal Transit Administration, United States Department of Transportation, Transit Noise and Vibration Impact Assessment**

Equipment		Pieces of Equipment	PPV at 25 feet (in/sec)	Distance from Equipment	PPV at adjusted distance	RMS velocity amplitude in in/sec at adjusted distance ^a	RMS Vibration level in VdB at adjusted distance
Caisson drilling		1	0.089	200	0.004	0.001	60
Jackhammer		4	0.035	200	0.006	0.002	64
Large bulldozer		1	0.089	200	0.004	0.001	60
Loaded trucks		1	0.076	200	0.003	0.001	58
Pile Drive (impact)		1	0.644	200	0.028	0.007	77
Vibratory Roller		1	0.210	200	0.009	0.002	67
Small bulldozer		1	0.003	200	0.000	0.000	30

*** Suggested Vibration Thresholds per the Federal Transit Administration, United States Department of Transportation, Transit Noise and Vibration Impact Assessment**

Equipment		Pieces of Equipment	PPV at 25 feet (in/sec)	Distance from Equipment	PPV at adjusted distance	RMS velocity amplitude in in/sec at adjusted distance ^a	RMS Vibration level in VdB at adjusted distance
Caisson drilling		1	0.089	470	0.001	0.000	49
Jackhammer		4	0.035	470	0.002	0.000	53
Large bulldozer		1	0.089	470	0.001	0.000	49
Loaded trucks		1	0.076	470	0.001	0.000	47
Pile Drive (impact)		1	0.644	470	0.008	0.002	66
Vibratory Roller		1	0.210	470	0.003	0.001	56
Small bulldozer		1	0.003	470	0.000	0.000	19

*** Suggested Vibration Thresholds per the Federal Transit Administration, United States Department of Transportation, Transit Noise and Vibration Impact Assessment**

Equipment		Pieces of Equipment	PPV at 25 feet (in/sec)	Distance from Equipment	PPV at adjusted distance	RMS velocity amplitude in in/sec at adjusted distance ^a	RMS Vibration level in VdB at adjusted distance
Caisson drilling		1	0.089	50	0.031	0.008	78
Jackhammer		4	0.035	50	0.049	0.012	82
Large bulldozer		1	0.089	50	0.031	0.008	78
Loaded trucks		1	0.076	50	0.027	0.007	77
Pile Drive (impact)		1	0.644	50	0.228	0.057	95
Vibratory Roller		1	0.210	50	0.074	0.019	85
Small bulldozer		1	0.003	50	0.001	0.000	48

*** Suggested Vibration Thresholds per the Federal Transit Administration, United States Department of Transportation, Transit Noise and Vibration Impact Assessment**

Equipment		Pieces of Equipment	PPV at 25 feet (in/sec)	Distance from Equipment	PPV at adjusted distance	RMS velocity amplitude in in/sec at adjusted distance ^a	RMS Vibration level in VdB at adjusted distance
Caisson drilling		1	0.089	60	0.024	0.006	76
Jackhammer		4	0.035	60	0.038	0.009	79
Large bulldozer		1	0.089	60	0.024	0.006	76
Loaded trucks		1	0.076	60	0.020	0.005	74
Pile Drive (impact)		1	0.644	60	0.173	0.043	93
Vibratory Roller		1	0.210	60	0.056	0.014	83
Small bulldozer		1	0.003	60	0.001	0.000	46

*** Suggested Vibration Thresholds per the Federal Transit Administration, United States Department of Transportation, Transit Noise and Vibration Impact Assessment**

Equipment		Pieces of Equipment	PPV at 25 feet (in/sec)	Distance from Equipment	PPV at adjusted distance	RMS velocity amplitude in in/sec at adjusted distance ^a	RMS Vibration level in VdB at adjusted distance
Caisson drilling		1	0.089	1225	0.000	0.000	36
Jackhammer		4	0.035	1225	0.000	0.000	40
Large bulldozer		1	0.089	1225	0.000	0.000	36
Loaded trucks		1	0.076	1225	0.000	0.000	35
Pile Drive (impact)		1	0.644	1225	0.002	0.000	53
Vibratory Roller		1	0.210	1225	0.001	0.000	44
Small bulldozer		1	0.003	1225	0.000	0.000	7

*** Suggested Vibration Thresholds per the Federal Transit Administration, United States Department of Transportation, Transit Noise and Vibration Impact Assessment**

Equipment		Pieces of Equipment	PPV at 25 feet (in/sec)	Distance from Equipment	PPV at adjusted distance	RMS velocity amplitude in in/sec at adjusted distance ^a	RMS Vibration level in VdB at adjusted distance
Caisson drilling		1	0.089	2600	0.000	0.000	26
Jackhammer		4	0.035	2600	0.000	0.000	30
Large bulldozer		1	0.089	2600	0.000	0.000	26
Loaded trucks		1	0.076	2600	0.000	0.000	25
Pile Drive (impact)		1	0.644	2600	0.001	0.000	44
Vibratory Roller		1	0.210	2600	0.000	0.000	34
Small bulldozer		1	0.003	2600	0.000	0.000	-3

*** Suggested Vibration Thresholds per the Federal Transit Administration, United States Department of Transportation, Transit Noise and Vibration Impact Assessment**



N.6

Operational Noise Worksheets



MSF Stationary Source

Receiver	FI	CNEL/dB(A)	Ld/dB(A)	Le/dB(A)	
Kelso Elementary	G		38.4	37.2	36
Site 1	G		37.1	35.9	34.7
Site 2	G		57.6	56.4	55.1
Site 3	G		46.8	45.6	44.4
Site 4	G		31.8	30.6	29.4
Site 5	G		33.6	32.5	31.2
Site A	G		38	36.8	35.6
Site B	G		45.2	44.1	42.8
Site C	G		33.7	32.5	31.2
Site D	G		34.6	33.4	32.2
Site E	G		27	25.9	24.6
Site F	G		35.3	34.1	32.8
Site G	G		38.4	37.3	36
Site H	G		44.4	43.2	42
Site I	G		64.9	63.7	62.5
Site J	G		38.9	37.7	36.5
Site K	G		35.5	34.3	33.1
Site L	G		39.8	38.7	37.4
Site M	G		36.8	35.6	34.3

Ln/dB(A)	Ldaytime/dB(A)	Lnighttime/dB(A)	Hourly (da/dB(A)
28.2	37.2	31.6	37.2
26.9	35.9	30.3	35.9
47.3	56.4	50.7	56.4
36.6	45.6	40	45.6
21.6	30.6	25	30.6
23.4	32.5	26.8	32.5
27.8	36.8	31.2	36.8
35	44.1	38.4	44.1
23.4	32.5	26.8	32.5
24.4	33.4	27.8	33.4
16.8	25.9	20.2	25.9
25	34.1	28.4	34.1
28.2	37.3	31.6	37.3
34.2	43.2	37.6	43.2
54.7	63.7	58.1	63.7
28.7	37.7	32.1	37.7
25.3	34.3	28.7	34.3
29.6	38.7	33	38.7
26.6	35.6	29.9	35.6

6-7 o'clock dB(A)	7-8 o'clock dB(A)	8-9 o'clock dB(A)	9-10 o'clock dB(A)
37.2	37.2	37.2	37.2
35.9	35.9	35.9	35.9
56.4	56.4	56.4	56.4
45.6	45.6	45.6	45.6
30.6	30.6	30.6	30.6
32.5	32.5	32.5	32.5
36.8	36.8	36.8	36.8
44.1	44.1	44.1	44.1
32.5	32.5	32.5	32.5
33.4	33.4	33.4	33.4
25.9	25.9	25.9	25.9
34.1	34.1	34.1	34.1
37.3	37.3	37.3	37.3
43.2	43.2	43.2	43.2
63.7	63.7	63.7	63.7
37.7	37.7	37.7	37.7
34.3	34.3	34.3	34.3
38.7	38.7	38.7	38.7
35.6	35.6	35.6	35.6

10-11 o'clock dB(A)	11-12 o'clock dB(A)	12-13 o'clock dB(A)	13-14 o'clock dB(A)
37.2	37.2	37.2	37.2
35.9	35.9	35.9	35.9
56.4	56.4	56.4	56.4
45.6	45.6	45.6	45.6
30.6	30.6	30.6	30.6
32.5	32.5	32.5	32.5
36.8	36.8	36.8	36.8
44.1	44.1	44.1	44.1
32.5	32.5	32.5	32.5
33.4	33.4	33.4	33.4
25.9	25.9	25.9	25.9
34.1	34.1	34.1	34.1
37.3	37.3	37.3	37.3
43.2	43.2	43.2	43.2
63.7	63.7	63.7	63.7
37.7	37.7	37.7	37.7
34.3	34.3	34.3	34.3
38.7	38.7	38.7	38.7
35.6	35.6	35.6	35.6

14-15 o'clock dB(A)	15-16 o'clock dB(A)	16-17 o'clock dB(A)	17-18 o'clock dB(A)
37.2	37.2	37.2	37.2
35.9	35.9	35.9	35.9
56.4	56.4	56.4	56.4
45.6	45.6	45.6	45.6
30.6	30.6	30.6	30.6
32.5	32.5	32.5	32.5
36.8	36.8	36.8	36.8
44.1	44.1	44.1	44.1
32.5	32.5	32.5	32.5
33.4	33.4	33.4	33.4
25.9	25.9	25.9	25.9
34.1	34.1	34.1	34.1
37.3	37.3	37.3	37.3
43.2	43.2	43.2	43.2
63.7	63.7	63.7	63.7
37.7	37.7	37.7	37.7
34.3	34.3	34.3	34.3
38.7	38.7	38.7	38.7
35.6	35.6	35.6	35.6

18-19 o'clock dB(A)	19-20 o'clock dB(A)	20-21 o'clock dB(A)	21-22 o'clock dB(A)
37.2	37.2	37.2	37.2
35.9	35.9	35.9	35.9
56.4	56.4	56.4	56.4
45.6	45.6	45.6	45.6
30.6	30.6	30.6	30.6
32.5	32.5	32.5	32.5
36.8	36.8	36.8	36.8
44.1	44.1	44.1	44.1
32.5	32.5	32.5	32.5
33.4	33.4	33.4	33.4
25.9	25.9	25.9	25.9
34.1	34.1	34.1	34.1
37.3	37.3	37.3	37.3
43.2	43.2	43.2	43.2
63.7	63.7	63.7	63.7
37.7	37.7	37.7	37.7
34.3	34.3	34.3	34.3
38.7	38.7	38.7	38.7
35.6	35.6	35.6	35.6

Monorail

Receiver	FI	CNEL/dB(A)	Hourly (daytime/dB(A)	Hourly (nightim/dB(A)
Kelso Elementary	G		53.2	
Site 1	G		58.3	
Site 2	G		53.2	
Site 3	G		54.1	
Site 4	G		51.6	
Site 5	G		46.3	
Site A	G		54.3	
Site B	G		53.5	
Site C	G		51.8	
Site D	G		44.7	
Site E	G		45.1	
Site F	G		51.8	
Site G	G		53.5	
Site H	G		53.6	
Site I	G		51.4	

Site J	G	52.7
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Site K	G	60.4
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Site L	G	45.7
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Site M	G	43.9
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Ld/dB(A)	Le/dB(A)	Ln/dB(A)	Ldaytime/dB(A)	Lnighttime/dB(A)
47.6	47.4	46.6	47.6	46.8
52.7	52.5	51.6	52.7	51.8
47.7	47.4	46.6	47.7	46.8
48.6	48.3	47.5	48.6	47.7
46	45.7	44.9	46	45.1
40.7	40.5	39.7	40.7	39.9
48.7	48.5	47.7	48.7	47.9
48	47.7	46.9	48	47.1
46.3	46	45.2	46.3	45.4
39.1	38.9	38.1	39.1	38.3
39.6	39.3	38.5	39.6	38.7
46.3	46	45.2	46.3	45.4
47.9	47.7	46.9	47.9	47.1
48.1	47.8	47	48.1	47.2
45.9	45.6	44.8	45.9	45

47.2	46.9	46.1	47.2	46.3
54.8	54.6	53.7	54.8	54
40.1	39.9	39.1	40.1	39.3
38.3	38.1	37.3	38.3	37.5

Hourly (da/dB(A))	Hourly (ni/dB(A))	Source	Source type
47.6	46.6	Guideway SB (Monorail Railway) Guideway NB (Monorail Railway)	
52.7	51.6	Guideway SB (Monorail Railway) Guideway NB (Monorail Railway)	
47.7	46.6	Guideway SB (Monorail Railway) Guideway NB (Monorail Railway)	
48.6	47.5	Guideway SB (Monorail Railway) Guideway NB (Monorail Railway)	
46	44.9	Guideway SB (Monorail Railway) Guideway NB (Monorail Railway)	
40.7	39.7	Guideway SB (Monorail Railway) Guideway NB (Monorail Railway)	
48.7	47.7	Guideway SB (Monorail Railway) Guideway NB (Monorail Railway)	
48	46.9	Guideway SB (Monorail Railway) Guideway NB (Monorail Railway)	
46.3	45.2	Guideway SB (Monorail Railway) Guideway NB (Monorail Railway)	
39.1	38.1	Guideway SB (Monorail Railway) Guideway NB (Monorail Railway)	
39.6	38.5	Guideway SB (Monorail Railway) Guideway NB (Monorail Railway)	
46.3	45.2	Guideway SB (Monorail Railway) Guideway NB (Monorail Railway)	
47.9	46.9	Guideway SB (Monorail Railway) Guideway NB (Monorail Railway)	
48.1	47	Guideway SB (Monorail Railway) Guideway NB (Monorail Railway)	
45.9	44.8	Guideway SB (Monorail Railway)	

		Guideway NB (Monor Railway
47.2	46.1	Guideway SB (Monor Railway Guideway NB (Monor Railway
54.8	53.7	Guideway SB (Monor Railway Guideway NB (Monor Railway
40.1	39.1	Guideway SB (Monor Railway Guideway NB (Monor Railway
38.3	37.3	Guideway SB (Monor Railway Guideway NB (Monor Railway

Tr. lane	CNEL dB(A)	Ld dB(A)	Le dB(A)	Ln dB(A)
	49.7	44.1	43.9	43
	50.6	45.1	44.8	44
	53.7	48.1	47.9	47
	56.4	50.8	50.6	49.8
	50.5	45	44.7	43.9
	49.9	44.3	44.1	43.2
	51.6	46	45.8	45
	50.6	45	44.8	44
	48.4	42.8	42.6	41.7
	48.7	43.2	42.9	42.1
	40	34.4	34.2	33.4
	45.1	39.6	39.3	38.5
	51.9	46.4	46.1	45.3
	50.5	45	44.7	43.9
	51	45.4	45.2	44.4
	50	44.4	44.1	43.3
	48.2	42.6	42.4	41.6
	49.4	43.8	43.6	42.7
	40.8	35.3	35	34.2
	42.4	36.9	36.6	35.8
	43.8	38.2	38	37.2
	39.4	33.8	33.5	32.7
	50.9	45.4	45.1	44.3
	44.6	39	38.8	37.9
	52.2	46.6	46.3	45.5
	47.7	42.2	41.9	41.1
	51.8	46.3	46	45.2
	48.9	43.4	43.1	42.3
	49.7	44.2	43.9	43.1

46.6	41	40.8	39.9
49.6	44	43.8	43
49.8	44.2	44	43.2
57.8	52.2	52	51.2
56.9	51.3	51.1	50.3
42.3	36.7	36.5	35.6
43.1	37.5	37.2	36.4
39.6	34	33.8	33
41.9	36.3	36.1	35.3

Ldaytime dB(A)	Lnighttime dB(A)	A dB	Hourly (da dB(A))	Hourly (ni dB(A))
44.1	43.3		0	44.1
45.1	44.2		0	45.1
48.1	47.3		0	48.1
50.8	50		0	50.8
45	44.1		0	45
44.3	43.4		0	44.3
46	45.2		0	46
45	44.2		0	45
42.8	41.9		0	42.8
43.2	42.3		0	43.2
34.4	33.6		0	34.4
39.6	38.7		0	39.6
46.4	45.5		0	46.4
45	44.1		0	45
45.4	44.6		0	45.4
44.4	43.5		0	44.4
42.6	41.8		0	42.6
43.8	43		0	43.8
35.3	34.4		0	35.3
36.9	36		0	36.9
38.2	37.4		0	38.2
33.8	32.9		0	33.8
45.4	44.5		0	45.4
39	38.1		0	39
46.6	45.7		0	46.6
42.2	41.3		0	42.2
46.3	45.4		0	46.3
43.4	42.5		0	43.4
44.2	43.3		0	44.2

41	40.1	0	41	39.9
44	43.2	0	44	43
44.2	43.4	0	44.2	43.2
52.2	51.4	0	52.2	51.2
51.3	50.5	0	51.3	50.3
36.7	35.8	0	36.7	35.6
37.5	36.6	0	37.5	36.4
34	33.2	0	34	33
36.3	35.5	0	36.3	35.3

Rubber-Tired Guideway

Receiver	FI	CNEL/dB(A)	Ld/dB(A)	Le/dB(A)	
Kelso Elementary	G		44.1	38.5	38.2
Site 1	G		54.5	48.9	48.7
Site 2	G		43.1	37.6	37.3
Site 3	G		46	40.4	40.2
Site 4	G		40.6	35	34.8
Site 5	G		33.3	27.7	27.5
Site A	G		43.1	37.5	37.3
Site B	G		44.1	38.6	38.3
Site C	G		40.5	35	34.7
Site D	G		36.5	30.9	30.7
Site E	G		33.1	27.5	27.2
Site F	G		43.4	37.8	37.6
Site G	G		46.4	40.9	40.6
Site H	G		47	41.5	41.2
Site I	G		44.1	38.6	38.3

Site J	G	39.6	34	33.8
Site K	G	54.9	49.3	49.1
Site L	G	39.5	33.9	33.7
Site M	G	37.2	31.6	31.4

Ln/dB(A)	Ldaytime/dB(A)	Lnighttime/dB(A)	Hourly (da/dB(A)	Hourly (da/dB(A)
37.4	38.5	37.6	38.5	37.6
47.9	48.9	48.1	48.9	48.1
36.5	37.6	36.7	37.6	36.7
39.3	40.4	39.5	40.4	39.5
34	35	34.2	35	34.2
26.6	27.7	26.9	27.7	26.9
36.5	37.5	36.7	37.5	36.7
37.5	38.6	37.7	38.6	37.7
33.9	35	34.1	35	34.1
29.8	30.9	30	30.9	30
26.4	27.5	26.6	27.5	26.6
36.8	37.8	37	37.8	37
39.8	40.9	40	40.9	40
40.4	41.5	40.6	41.5	40.6
37.5	38.6	37.7	38.6	37.7

33	34	33.2	34
48.3	49.3	48.5	49.3
32.9	33.9	33.1	33.9
30.5	31.6	30.8	31.6

Hourly (ni/dB(A))	Source	Source type
37.4	Guideway SB (Rubber Tired) Guideway NB (Rubber Tired)	Railway Railway
47.9	Guideway SB (Rubber Tired) Guideway NB (Rubber Tired)	Railway Railway
36.5	Guideway SB (Rubber Tired) Guideway NB (Rubber Tired)	Railway Railway
39.3	Guideway SB (Rubber Tired) Guideway NB (Rubber Tired)	Railway Railway
34	Guideway SB (Rubber Tired) Guideway NB (Rubber Tired)	Railway Railway
26.6	Guideway SB (Rubber Tired) Guideway NB (Rubber Tired)	Railway Railway
36.5	Guideway SB (Rubber Tired) Guideway NB (Rubber Tired)	Railway Railway
37.5	Guideway SB (Rubber Tired) Guideway NB (Rubber Tired)	Railway Railway
33.9	Guideway SB (Rubber Tired) Guideway NB (Rubber Tired)	Railway Railway
29.8	Guideway SB (Rubber Tired) Guideway NB (Rubber Tired)	Railway Railway
26.4	Guideway SB (Rubber Tired) Guideway NB (Rubber Tired)	Railway Railway
36.8	Guideway SB (Rubber Tired) Guideway NB (Rubber Tired)	Railway Railway
39.8	Guideway SB (Rubber Tired) Guideway NB (Rubber Tired)	Railway Railway
40.4	Guideway SB (Rubber Tired) Guideway NB (Rubber Tired)	Railway Railway
37.5	Guideway SB (Rubber Tired)	Railway

	Guideway NB (Rubber Tired)	Railway
33	Guideway SB (Rubber Tired) Guideway NB (Rubber Tired)	Railway Railway
48.3	Guideway SB (Rubber Tired) Guideway NB (Rubber Tired)	Railway Railway
32.9	Guideway SB (Rubber Tired) Guideway NB (Rubber Tired)	Railway Railway
30.5	Guideway SB (Rubber Tired) Guideway NB (Rubber Tired)	Railway Railway

Tr. lane	CNEL dB(A)	Ld dB(A)	Le dB(A)
	40.3	34.7	34.5
	41.7	36.1	35.9
	50	44.4	44.2
	52.6	47	46.8
	40.6	35.1	34.8
	39.6	34	33.7
	43.2	37.7	37.4
	42.7	37.1	36.9
	37.7	32.1	31.8
	37.5	32	31.7
	28	22.4	22.2
	31.8	26.2	26
	40.6	35	34.8
	39.5	34	33.7
	41.4	35.8	35.5
	40.9	35.3	35.1
	37.4	31.9	31.6
	37.6	32	31.8
	33.5	27.9	27.6
	33.5	27.9	27.6
	30.8	25.2	25
	29.2	23.6	23.3
	42.5	36.9	36.7
	36.3	30.7	30.5
	45.3	39.7	39.4
	40.1	34.6	34.3
	45.5	40	39.7
	41.6	36.1	35.8
	43	37.4	37.2

37.8	32.2	32
37	31.4	31.2
36.2	30.6	30.3
52.3	46.7	46.5
51.4	45.9	45.6
35.7	30.1	29.9
37.2	31.6	31.3
32.8	27.3	27
35.2	29.6	29.4

Ln dB(A)	Ldaytime dB(A)	Lnighttime dB(A)	A dB	
33.7	34.7	33.9	33.9	0
35	36.1	35.3	35.3	0
43.3	44.4	43.6	43.6	0
46	47	46.2	46.2	0
34	35.1	34.2	34.2	0
32.9	34	33.1	33.1	0
36.6	37.7	36.8	36.8	0
36	37.1	36.3	36.3	0
31	32.1	31.2	31.2	0
30.9	32	31.1	31.1	0
21.3	22.4	21.6	21.6	0
25.1	26.2	25.3	25.3	0
34	35	34.2	34.2	0
32.9	34	33.1	33.1	0
34.7	35.8	34.9	34.9	0
34.3	35.3	34.5	34.5	0
30.8	31.9	31	31	0
31	32	31.2	31.2	0
26.8	27.9	27	27	0
26.8	27.9	27	27	0
24.1	25.2	24.4	24.4	0
22.5	23.6	22.7	22.7	0
35.8	36.9	36.1	36.1	0
29.6	30.7	29.9	29.9	0
38.6	39.7	38.8	38.8	0
33.5	34.6	33.7	33.7	0
38.9	40	39.1	39.1	0
35	36.1	35.2	35.2	0
36.3	37.4	36.5	36.5	0

31.2	32.2	31.4	0
30.4	31.4	30.6	0
29.5	30.6	29.7	0
45.7	46.7	45.9	0
44.8	45.9	45	0
29.1	30.1	29.3	0
30.5	31.6	30.7	0
26.2	27.3	26.4	0
28.6	29.6	28.8	0

Hourly (da dB(A))	Hourly (ni dB(A))
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34.7	33.7
36.1	35
44.4	43.3
47	46
35.1	34
34	32.9
37.7	36.6
37.1	36
32.1	31
32	30.9
22.4	21.3
26.2	25.1
35	34
34	32.9
35.8	34.7
35.3	34.3
31.9	30.8
32	31
27.9	26.8
27.9	26.8
25.2	24.1
23.6	22.5
36.9	35.8
30.7	29.6
39.7	38.6
34.6	33.5
40	38.9
36.1	35
37.4	36.3

32.2	31.2
31.4	30.4
30.6	29.5
46.7	45.7
45.9	44.8
30.1	29.1
31.6	30.5
27.3	26.2
29.6	28.6