
APPENDIX G
Noise Data



G.1

Noise Monitoring Data

Monitoring Location: Site HS1

Monitoring Date: 8/5/2021

Monitoring Period

Time	LAeq	LASmax	LASmin
9:47:54	57.1	68.7	48.9
9:48:54	56.7	65.7	49.7
9:49:54	62.6	70.9	52.5
9:50:54	60.1	67.8	50.1
9:51:54	54.0	56.9	49.4
9:52:54	55.7	63.2	48.7
9:53:54	57.6	66.1	50.7
9:54:54	64.0	72.0	51.8
9:55:54	53.0	56.1	49.7
9:56:54	56.7	68.0	50.0
9:57:54	52.7	55.6	49.9
9:58:54	59.7	68.4	50.0
9:59:54	64.2	75.2	49.9
10:00:54	56.4	67.5	50.0
10:01:54	59.6	70.3	51.7
10:02:54	53.5	60.5	58.9

15-minute LAeq

59.3

Monitoring Location: Site HS2

Monitoring Date: 8/5/2021

Monitoring Period

Time	LAeq	LASmax	LASmin
10:14:10	53.3	61.0	48.5
10:15:10	54.0	63.7	47.8
10:16:10	59.0	71.6	46.8
10:17:10	48.4	52.2	46.0
10:18:10	46.8	47.8	46.0
10:19:10	47.3	48.5	46.0
10:20:10	49.1	53.1	46.7
10:21:10	47.6	50.8	45.7
10:22:10	48.3	51.2	46.6
10:23:10	53.4	64.5	48.2
10:24:10	52.1	57.0	47.1
10:25:10	49.0	51.3	47.1
10:26:10	51.1	56.3	47.7
10:27:10	49.2	54.2	46.6
10:28:10	51.2	57.1	46.5
10:29:10	49.3	50.0	47.9

15-minute LAeq

52.0

Monitoring Location: Site HS3

Monitoring Date: 8/5/2021

Monitoring Period

Time	LAeq	LASmax	LASmin
10:34:59	58.1	66.3	51.4
10:35:59	53.5	59.6	50.6
10:36:59	53.8	56.0	50.3
10:37:59	58.0	64.5	52.8
10:38:59	60.4	70.7	51.7
10:39:59	59.4	67.5	52.9
10:40:59	54.4	57.6	51.6
10:41:59	55.6	59.5	53.5
10:42:59	57.2	63.4	52.4
10:43:59	58.4	65.3	54.9
10:44:59	59.5	65.1	55.5
10:45:59	70.1	81.1	58.0
10:46:59	67.2	76.9	56.2
10:47:59	63.6	75.4	57.0
10:48:59	59.7	71.1	57.0
10:49:59	57.8	58.2	58.0

15-minute LAeq

62.1

Monitoring Location: Site HS4

Monitoring Date: 8/5/2021

Monitoring Period

Time	LAeq	LASmax	LASmin
10:53:11	75.8	83.0	59.7
10:54:11	70.7	82.6	54.1
10:55:11	71.8	79.7	54.4
10:56:11	73.0	78.5	64.3
10:57:11	78.3	89.5	60.9
10:58:11	71.1	77.7	59.9
10:59:11	72.2	78.2	61.5
11:00:11	74.0	86.9	54.3
11:01:11	83.7	97.4	57.1
11:02:11	69.2	76.5	57.4
11:03:11	80.6	95.4	61.2
11:04:11	74.0	87.4	57.9
11:05:11	78.3	90.6	58.5
11:06:11	69.8	77.7	56.1
11:07:11	73.3	80.3	55.5
11:08:11	58.0	62.4	58.9

15-minute LAeq

76.3

Monitoring Location: Site OB1

Monitoring Date: 8/5/2021

Monitoring Period

Time	LAeq	LASmax	LASmin
7:17:57	60.7	70.4	50.6
7:18:57	74.7	86.4	53.9
7:19:57	63.2	73.1	53.7
7:20:57	75.8	86.7	57.8
7:21:57	64.1	71.8	50.5
7:22:57	73.7	82.8	52.4
7:23:57	68.8	82.6	52.2
7:24:57	71.7	81.1	55.0
7:25:57	68.9	80.2	54.0
7:26:57	73.7	83.5	59.8
7:27:57	69.1	79.1	52.8
7:28:57	71.2	76.6	59.5
7:29:57	69.5	74.1	59.7
7:30:57	72.2	77.4	61.3
7:31:57	68.5	76.6	49.1
7:32:57	68.3	67.7	64.4

15-minute LAeq

71.2

Monitoring Location: Site OB2

Monitoring Date: 8/5/2021

Monitoring Period

Time	LAeq	LASmax	LASmin
7:36:26	57.4	63.8	48.3
7:37:26	54.2	60.9	47.4
7:38:26	56.8	64.5	47.9
7:39:26	61.1	68.3	50.9
7:40:26	60.3	66.1	54.7
7:41:26	60.9	69.7	51.0
7:42:26	58.9	64.2	54.1
7:43:26	64.9	78.3	54.9
7:44:26	67.4	75.9	49.0
7:45:26	64.5	75.3	48.9
7:46:26	60.2	65.9	49.4
7:47:26	54.6	60.4	47.3
7:48:26	59.4	64.4	53.8
7:49:26	54.9	61.1	48.5
7:50:26	60.5	67.1	49.3
7:51:26	56.3	57.1	56.8

15-minute LAeq

61.2

Monitoring Location: Site OB3

Monitoring Date: 8/5/2021

Monitoring Period

Time	LAeq	LASmax	LASmin
7:55:30	62.4	68.5	51.5
7:56:30	60.1	71.9	51.3
7:57:30	62.9	73.4	51.0
7:58:30	53.5	60.7	50.4
7:59:30	53.8	60.0	50.8
8:00:30	57.3	68.2	50.5
8:01:30	53.0	58.5	50.5
8:02:30	55.0	65.1	50.5
8:03:30	61.3	72.6	52.2
8:04:30	53.8	55.0	52.5
8:05:30	56.3	62.6	52.9
8:06:30	54.2	56.6	53.0
8:07:30	59.2	67.8	52.9
8:08:30	54.9	61.5	53.0
8:09:30	52.8	54.6	51.9
8:10:30	52.8	52.8	52.6

15-minute LAeq

58.0

Monitoring Location: Site TC1

Monitoring Date: 8/5/2021

Monitoring Period

Time	LAeq	LASmax	LASmin
9:00:09	66.1	75.8	53.6
9:01:09	72.5	80.1	52.0
9:02:09	69.5	80.1	53.3
9:03:09	68.5	79.7	57.0
9:04:09	72.1	80.3	58.4
9:05:09	67.2	75.7	52.4
9:06:09	72.2	79.2	55.4
9:07:09	71.0	81.0	58.6
9:08:09	71.0	78.6	52.7
9:09:09	65.0	76.3	50.9
9:10:09	68.5	75.6	56.5
9:11:09	65.8	78.4	50.1
9:12:09	71.6	80.3	57.2
9:13:09	66.5	75.5	54.3
9:14:09	82.0	96.3	62.6
9:15:09	65.9	65.7	65.6

15-minute LAeq

72.7

Monitoring Location: Site TC2

Monitoring Date: 8/5/2021

Monitoring Period

Time	LAeq	LASmax	LASmin
9:26:56	68.8	76.1	53.4
9:27:56	59.2	66.9	52.0
9:28:56	63.0	72.7	50.7
9:29:56	59.0	68.9	49.3
9:30:56	64.6	74.3	49.2
9:31:56	63.3	74.0	49.6
9:32:56	67.8	75.1	49.9
9:33:56	61.9	70.8	50.4
9:34:56	69.6	75.8	54.1
9:35:56	61.4	75.8	50.4
9:36:56	67.3	77.1	52.5
9:37:56	62.6	77.2	50.0
9:38:56	66.5	73.8	49.5
9:39:56	60.2	70.1	48.7
9:40:56	66.7	75.6	49.3
9:41:56	65.3	64.0	59.6

15-minute LAeq

65.4

Monitoring Location: Site WB1

Monitoring Date: 8/5/2021

Monitoring Period

Time	LAeq	LASmax	LASmin
8:19:45	71.6	78.9	62.5
8:20:45	66.8	73.8	58.2
8:21:45	73.6	81.1	57.1
8:22:45	68.5	75.6	55.9
8:23:45	69.2	76.1	55.6
8:24:45	66.1	73.8	55.5
8:25:45	68.9	77.5	62.2
8:26:45	65.8	75.5	53.4
8:27:45	70.9	80.3	56.5
8:28:45	71.5	79.3	53.7
8:29:45	70.7	78.7	55.9
8:30:45	68.0	75.4	54.5
8:31:45	68.7	78.5	49.9
8:32:45	76.4	88.6	54.9
8:33:45	69.1	75.7	59.3
8:34:45	59.3	64.7	63.4

15-minute LAeq

70.5

Monitoring Location: Site WB2

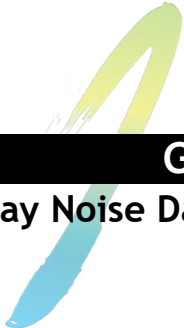
Monitoring Date: 8/5/2021

Monitoring Period

Time	LAeq	LASmax	LASmin
8:36:17	60.5	68.8	51.4
8:37:17	61.4	69.0	55.7
8:38:17	62.3	70.0	53.9
8:39:17	60.9	68.2	50.8
8:40:17	60.5	67.5	52.4
8:41:17	62.5	69.4	54.1
8:42:17	62.3	69.9	52.2
8:43:17	62.5	68.0	52.9
8:44:17	61.1	67.2	52.1
8:45:17	58.8	67.5	52.2
8:46:17	58.5	67.5	49.2
8:47:17	61.1	65.8	53.5
8:48:17	59.1	64.2	50.2
8:49:17	62.3	68.1	54.7
8:50:17	60.2	66.9	52.3
8:51:17	61.3	66.1	58.5

15-minute LAeq

61.1



G.2

Roadway Noise Data

2_Roadway Noise Data

2
NOISE LEVEL CONTOURS - Existing PlusProject Weekday Off-Site ADT Volumes

												Traffic Volumes								Ref. Energy Level: Dist										Le				Ln																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
ROADWAY NAME		Land Use	Median Lanes	ADT Volume	Design Dist. from			Barrier Attn. dB(A)	Vehicle Mix		dB(A) CNEL	Day	Eve	Night	MTd	HTd	MTe	HTe	MTn	HTn	A	MT	HT	Adj	A	MT	HT	Total A	MT	HT	Total A	MT	HT	Total A	MT	HT	Total A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Segment					Speed (mph)	Center to Receptor	Alpha Factor (1)		Medium Trucks	Heavy Trucks																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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Existing AM		2	0	10,816	25	30	0	0	1.8%	0.7%	63.2	####	####	####	170	67	10	2	15	6	59.4	71.1	78.7	2.2	60.7	55.6	59.2	63.7	57.7	48.0	49.0	58.7	44.5	46.1	49.9	52.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Existing PM		2	0	11,824	25	30	0	0	1.8%	0.7%	63.6	####	####	####	186	74	11	2	16	7	59.4	71.1	78.7	2.2	61.1	55.9	59.6	64.1	58.1	48.4	49.4	59.1	44.9	46.5	50.3	52.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Existing + Project AM		2	0	10,952	25	30	0	0	1.8%	0.7%	63.3	####	####	####	172	68	10	2	15	6	59.4	71.1	78.7	2.2	60.8	55.6	59.2	63.8	57.8	48.0	49.1	58.7	44.6	46.2	50.0	52.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Existing + Project PM		2	0	11,992	25	30	0	0	1.8%	0.7%	63.7	####	####	####	189	75	11	2	16	7	59.4	71.1	78.7	2.2	61.2	56.0	59.6	64.2	58.2	48.4	49.5	59.1	45.0	46.5	50.4	52.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
General Plan Buildout w/out Project AM		2	0	13,512	25	30	0	0	1.8%	0.7%	64.2	####	####	####	213	84	12	3	18	8	59.4	71.1	78.7	2.2	61.7	56.5	60.2	64.7	58.7	48.9	50.0	59.6	45.5	47.1	50.9	53.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
General Plan Buildout w/out Project PM		2	0	14,760	25	30	0	0	1.8%	0.7%	64.6	####	####	####	232	92	13	3	20	8	59.4	71.1	78.7	2.2	62.1	56.9	60.5	65.1	59.1	49.3	50.4	60.0	45.9	47.4	51.3	53.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
General Plan Buildout + Project AM		2	0	13,648	25	30	0	0	1.8%	0.7%	64.2	####	####	####	215	85	12	3	18	8	59.4	71.1	78.7	2.2	61.7	56.6	60.2	64.8	58.7	49.0	50.0	59.7	45.5	47.1	51.0	53.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
General Plan Buildout + Project PM		2	0	14,928	25	30	0	0	1.8%	0.7%	64.6	####	####	####	235	93	14	3	20	8	59.4	71.1	78.7	2.2	62.1	57.0	60.6	65.1	59.1	49.4	50.4	60.1	45.9	47.5	51.3	53.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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Existing AM		4	0	12,272	25	80	0	0	1.8%	0.7%	59.5	####	####	####	193	77	11	2	17	7	59.4	71.1	78.7	-2.0	57.0	51.9	55.5	60.1	54.0	44.3	45.3	55.0	40.9	42.4	46.3	48.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Existing PM		4	0	14,016	25	80	0	0	1.8%	0.7%	60.1	####	####	####	221	87	13	3	19	8	59.4	71.1	78.7	-2.0	57.6	52.4	56.1	60.6	54.6	44.9	45.9	55.6	41.4	43.0	46.8	49.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Existing + Project AM		4	0	12,736	25	80	0	0	1.8%	0.7%	59.7	####	####	####	200	79	12	3	17	7	59.4	71.1	78.7	-2.0	57.2	52.0	55.7	60.2	54.2	44.4	45.5	55.1	41.0	42.6	46.4	48.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Existing + Project PM		4	0	14,512	25	80	0	0	1.8%	0.7%	60.3	####	####	####	228	91	13	3	20	8	59.4	71.1	78.7	-2.0	57.8	52.6	56.2	60.8	54.8	45.0	46.1	55.7	41.6	43.1	47.0	49.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
General Plan Buildout w/out Project AM		4	0	15,920	25	80	0	0	1.8%	0.7%	60.7	####	####	####	251	99	14	3	22	9	59.4	71.1	78.7	-2.0	58.2	53.0	56.6	61.2	55.2	45.4	46.5	56.1	42.0	43.5	47.4	49.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
General Plan Buildout w/out Project PM		4	0	18,400	25	80	0	0	1.8%	0.7%	61.3	####	####	####	290	115	17	4	25	10	59.4	71.1	78.7	-2.0	58.8	53.6	57.3	61.8	55.8	46.0	47.1	56.7	42.6	44.2	48.0	50.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
General Plan Buildout + Project AM		4	0	16,384	25	80	0	0	1.8%	0.7%	60.8	####	####	####	258	102	15	3	22	9	59.4	71.1	78.7	-2.0	58.3	53.1	56.8	61.3	55.3	45.5	46.6	56.2	42.1	43.7	47.5	49.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
General Plan Buildout + Project PM		4	0	18,896	25	80	0	0	1.8%	0.7%	61.4	####	####	####	297	118	17	4	26	11	59.4	71.1	78.7	-2.0	58.9	53.7	57.4	61.9	55.9	46.2	47.2	56.9	42.7	44.3	48.1	50.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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(1) Alpha Factor: Coefficient of absorption relating to the effects of the ground surface. An alpha factor of 0 indicates that the site is an acoustically "hard" site such as asphalt. An alpha factor of 0.5 indicates that the site is an acoustically "soft" site such as vegetative ground cover.

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Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

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NOISE LEVEL CONTOURS - Existing PlusProject Weekday Off-Site ADT Volumes

												Traffic Volumes										Ref. Energy Level: Dist										Le										Ln									
ROADWAY NAME		Land Use	Median Lanes	Width	ADT Volume	Design Dist. from		Barrier Attn. dB(A)	Vehicle Mix		dB(A) CNEL	Day	Eve	Night	MTd	HTd	MTe	HTe	MTn	HTn	A	MT	HT	Adj	A	MT	HT	Total	A	MT	HT	Total	A	MT	HT	Total															
Segment						Speed (mph)	Center to Receptor (ft)		Alpha	Medium Trucks		Heavy Trucks																																							
Walnut Avenue n/o Willow Street																																																			
Existing AM		2	0	3,592	35	160	0	0	1.8%	0.7%	53.7	####	456	345	57	22	3	1	5	2	65.1	74.8	80.0	-5.1	52.8	45.7	46.9	54.4	49.8	38.1	36.7	50.3	36.6	36.2	37.7	41.6															
Existing PM		2	0	4,704	35	160	0	0	1.8%	0.7%	54.9	####	597	452	74	29	4	1	6	3	65.1	74.8	80.0	-5.1	54.0	46.9	48.1	55.6	51.0	39.3	37.9	51.5	37.8	37.4	38.8	42.8															
Existing + Project AM		2	0	3,760	35	160	0	0	1.8%	0.7%	53.9	####	478	361	59	23	3	1	5	2	65.1	74.8	80.0	-5.1	53.0	45.9	47.1	54.6	50.0	38.3	36.9	50.5	36.8	36.4	37.8	41.8															
Existing + Project PM		2	0	4,896	35	160	0	0	1.8%	0.7%	55.1	####	622	470	77	31	4	1	7	3	65.1	74.8	80.0	-5.1	54.1	47.0	48.2	55.7	51.1	39.4	38.1	51.6	38.0	37.6	39.0	43.0															
General Plan Buildout w/out Project AM		2	0	4,480	35	160	0	0	1.8%	0.7%	54.7	####	569	430	71	28	4	1	6	3	65.1	74.8	80.0	-5.1	53.7	46.6	47.8	55.4	50.8	39.1	37.7	51.2	37.6	37.2	38.6	42.6															
General Plan Buildout w/out Project PM		2	0	5,832	35	160	0	0	1.8%	0.7%	55.8	####	741	560	92	36	5	1	8	3	65.1	74.8	80.0	-5.1	54.9	47.8	49.0	56.5	51.9	40.2	38.8	52.4	38.7	38.3	39.8	43.7															
General Plan Buildout + Project AM		2	0	4,648	35	160	0	0	1.8%	0.7%	54.8	####	590	446	73	29	4	1	6	3	65.1	74.8	80.0	-5.1	53.9	46.8	48.0	55.5	50.9	39.2	37.8	51.4	37.7	37.4	38.8	42.8															
General Plan Buildout + Project PM		2	0	6,024	35	160	0	0	1.8%	0.7%	56.0	####	765	578	95	38	5	1	8	3	65.1	74.8	80.0	-5.1	55.0	47.9	49.1	56.6	52.0	40.3	39.0	52.5	38.9	38.5	39.9	43.9															
Walnut Avenue s/o Willow Street																																																			
Existing AM		2	12	4,672	30	45	0	0	1.8%	0.7%	59.5	####	593	449	74	29	4	1	6	3	62.5	73.1	80.3	0.5	57.7	51.5	54.6	60.0	54.7	43.9	44.4	55.4	41.5	42.0	45.3	48.1															
Existing PM		2	12	5,976	30	45	0	0	1.8%	0.7%	60.5	####	759	574	94	37	5	1	8	3	62.5	73.1	80.3	0.5	58.7	52.5	55.6	61.1	55.7	44.9	45.5	56.5	42.6	43.1	46.4	49.1															
Existing + Project AM		2	12	4,736	30	45	0	0	1.8%	0.7%	59.5	####	601	455	75	30	4	1	6	3	62.5	73.1	80.3	0.5	57.7	51.5	54.6	60.1	54.7	43.9	44.5	55.4	41.5	42.1	45.4	48.1															
Existing + Project PM		2	12	6,056	30	45	0	0	1.8%	0.7%	60.6	####	769	581	95	38	6	1	8	3	62.5	73.1	80.3	0.5	58.8	52.6	55.7	61.2	55.8	45.0	45.5	56.5	42.6	43.1	46.5	49.2															
General Plan Buildout w/out Project AM		2	12	6,144	30	45	0	0	1.8%	0.7%	60.6	####	780	590	97	38	6	1	8	3	62.5	73.1	80.3	0.5	58.8	52.6	55.8	61.2	55.9	45.1	45.6	56.6	42.7	43.2	46.5	49.3															
General Plan Buildout w/out Project PM		2	12	7,776	30	45	0	0	1.8%	0.7%	61.7	####	988	746	122	48	7	2	11	4	62.5	73.1	80.3	0.5	59.9	53.7	56.8	62.3	56.9	46.1	46.6	57.6	43.7	44.2	47.6	50.3															
General Plan Buildout + Project AM		2	12	6,208	30	45	0	0	1.8%	0.7%	60.7	####	788	596	98	39	6	1	8	4	62.5	73.1	80.3	0.5	58.9	52.7	55.8	61.3	55.9	45.1	45.6	56.6	42.7	43.2	46.6	49.3															
General Plan Buildout + Project PM		2	12	7,856	30	45	0	0	1.8%	0.7%	61.7	####	998	754	124	49	7	2	11	4	62.5	73.1	80.3	0.5	59.9	53.7	56.8	62.3	56.9	46.1	46.7	57.6	43.7	44.3	47.6	50.3															
Willow Street e/o Walnut Avenue																																																			
Existing AM		6	17	20,592	40	180	0	0	1.8%	0.7%	62.2	####	####	####	324	128	19	4	28	12	67.4	76.3	81.2	-5.5	61.6	53.8	54.6	63.0	58.6	46.2	44.4	59.0	45.4	44.3	45.4	49.8															
Existing PM		6	17	25,584	40	180	0	0	1.8%	0.7%	63.2	####	####	####	403	160	23	5	35	14	67.4	76.3	81.2	-5.5	62.6	54.7	55.5	63.9	59.6	47.1	45.4	60.0	46.4	45.3	46.3	50.8															
Existing + Project AM		6	17	21,088	40	180	0	0	1.8%	0.7%	62.3	####	####	####	332	132	19	4	29	12	67.4	76.3	81.2	-5.5	61.7	53.9	54.7	63.1	58.7	46.3	44.5	59.1	45.5	44.4	45.5	49.9															
Existing + Project PM		6	17	26,192	40	180	0	0	1.8%	0.7%	63.3	####	####	####	412	163	24	5	35	15	67.4	76.3	81.2	-5.5	62.7	54.8	55.6	64.0	59.7	47.2	45.5	60.1	46.5	45.4	46.4	50.9															
General Plan Buildout w/out Project AM		6	17	25,760	40	180	0	0	1.8%	0.7%	63.2	####	####	####	405	161	23	5	35	15	67.4	76.3	81.2	-5.5	62.6	54.7	55.6	63.9	59.6	47.2	45.4	60.0	46.4	45.3	46.3	50.8															
General Plan Buildout w/out Project PM		6	17	31,976	40	180	0	0	1.8%	0.7%	64.1	####	####	####	503	199	29	6	43	18	67.4	76.3	81.2	-5.5	63.5	55.7	56.5	64.9	60.6	48.1	46.3	60.9	47.4	46.2	47.3	51.7															
General Plan Buildout + Project AM		6	17	26,256	40	180	0	0	1.8%	0.7%	63.3	####	####	####	413	164	24	5	36	15	67.4	76.3	81.2	-5.5	62.7	54.8	55.6	64.0	59.7	47.2	45.5	60.1	46.5	45.4	46.4	50.9															
General Plan Buildout + Project PM		6	17	32,584	40	180	0	0	1.8%	0.7%	64.2	####	####	####	513	203	30	6	44	18	67.4	76.3	81.2	-5.5	63.6	55.8	56.6	65.0	60.6	48.2	46.4	61.0	47.4	46.3	47.3	51.8															
Willow Street w/o Walnut Avenue																																																			
Existing AM		6	10	19,256	30	50	0	0	1.8%	0.7%	66.5	####	####	####	303	120	18	4	26	11	62.5	73.1	80.3	1.4	64.7	58.4	61.6	67.0	61.7	50.9	51.4	62.4	48.5	49.0	52.3	55.1															
Existing PM		6	10	23,944	30	50	0	0	1.8%	0.7%	67.4	####	####	####	377	149	22	5	32	14	62.5	73.1	80.3	1.4	65.6	59.4	62.5	68.0	62.6	51.8	52.4	63.3	49.4	49.9	53.3	56.0															
Existing + Project AM		6	10	19,808	30	50	0	0	1.8%	0.7%	66.6	####	####	####	312	124	18	4	27	11	62.5	73.1	80.3	1.4	64.8	58.6	61.7	67.2	61.8	51.0	51.5	62.5	48.6	49.1	52.5	55.2															
Existing + Project PM		6	10	24,616	30	50	0	0	1.8%	0.7%	67.5	####	####	####	387	154	22	5	33	14	62.5	73.1	80.3	1.4	65.7	59.5	62.6	68.1	62.7	51.9	52.5	63.5	49.5	50.1	53.4	56.1															
General Plan Buildout w/out Project AM		6	10	24,352	30	50	0	0	1.8%	0.7%	67.5	####	####	####	383	152	22	5	33	14	62.5	73.1	80.3	1.4	65.7	59.5	62.6	68.1	62.7	51.9	52.4	63.4	49.5	50.0	53.4	56.1															
General Plan Buildout w/out Project PM		6	10	30,208	30	50	0	0	1.8%	0.7%	68.4	####	####	####	475	188	27	6	41	17	62.5	73.1	80.3	1.4	66.6	60.4	63.5	69.0	63.6	52.8	53.4	64.3	50.4	51.0	54.3	57.0															
General Plan Buildout + Project AM		6	10	24,904	30	50	0	0	1.8%	0.7%	67.6	####	####	####	392	155	23	5	34	14	62.5	73.1	80.3	1.4	65.8	59.6	62.7	68.2	62.8	52.0	52.5	63.5	49.6	50.1	53.5	56.2															
General Plan Buildout + Project PM		6	10	30,880	30	50	0	0	1.8%	0.7%	68.5	####	####	####	486	193	28	6	42	17	62.5	73.1	80.3	1.4	66.7	60.5	63.6	69.1	63.7	52.9	53.5	64.4	50.5	51.0	54.4	57.1															

(1) Alpha Factor: Coefficient of absorption relating to the effects of the ground surface. An alpha factor of 0 indicates that the site is an acoustically "hard

2_Roadway Noise Data

(1) Alpha Factor: Coefficient of absorption relating to the effects of the ground surface. An alpha factor of 0 indicates that the site is an acoustically "hard" site such as asphalt. An alpha factor of 0.5 indicates that the site is an acoustically "soft" site such as vegetative ground cover.

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

2
NOISE LEVEL CONTOURS - Existing Plus Project Weekday Off-Site ADT Volumes

											Traffic Volumes								Ref. Energy Level: Dist										Le				Ln							
ROADWAY NAME			Median	ADT	Design	Dist. from		Barrier	Vehicle Mix			Day	Eve	Night	MTd	HTd	MTe	HTe	MTn	HTn	A	MT	HT	Adj	A	MT	HT	Total	A	MT	HT	Total	A	MT	HT	Total				
Segment	Land Use	Lanes	Width	Volume	Speed (mph)	Center to Receptor	Alpha	Att. dB(A)	Medium Trucks	Heavy Trucks	dB(A) CNEL																													
Cherry Avenue n/o Spring Street																																								
Existing AM		5	12	25,240	40	1000	0	0	1.8%	0.7%	55.6	####	####	####	397	157	23	5	34	14	67.4	76.3	81.2	-13.1	55.0	47.1	47.9	56.3	52.0	39.5	37.8	52.4	38.8	37.6	38.7	43.2				
Existing PM		5	12	27,032	40	1000	0	0	1.8%	0.7%	55.9	####	####	####	425	169	25	5	37	15	67.4	76.3	81.2	-13.1	55.3	47.4	48.2	56.6	52.3	39.8	38.1	52.7	39.1	37.9	39.0	43.5				
Existing + Project AM		5	12	25,416	40	1000	0	0	1.8%	0.7%	55.6	####	####	####	400	159	23	5	34	14	67.4	76.3	81.2	-13.1	55.0	47.1	48.0	56.3	52.0	39.5	37.8	52.4	38.8	37.7	38.7	43.2				
Existing + Project PM		5	12	27,240	40	1000	0	0	1.8%	0.7%	55.9	####	####	####	429	170	25	5	37	15	67.4	76.3	81.2	-13.1	55.3	47.4	48.3	56.6	52.3	39.8	38.1	52.7	39.1	38.0	39.0	43.5				
General Plan Buildout w/out Project AM		5	12	31,328	40	1000	0	0	1.8%	0.7%	56.5	####	####	####	493	195	28	6	42	18	67.4	76.3	81.2	-13.1	55.9	48.0	48.9	57.2	52.9	40.5	38.7	53.3	39.7	38.6	39.6	44.1				
General Plan Buildout w/out Project PM		5	12	33,544	40	1000	0	0	1.8%	0.7%	56.8	####	####	####	528	209	30	7	45	19	67.4	76.3	81.2	-13.1	56.2	48.3	49.2	57.5	53.2	40.8	39.0	53.6	40.0	38.9	39.9	44.4				
General Plan Buildout + Project AM		5	12	31,504	40	1000	0	0	1.8%	0.7%	56.5	####	####	####	496	196	29	6	43	18	67.4	76.3	81.2	-13.1	55.9	48.1	48.9	57.3	52.9	40.5	38.7	53.3	39.7	38.6	39.7	44.1				
General Plan Buildout + Project PM		5	12	33,752	40	1000	0	0	1.8%	0.7%	56.8	####	####	####	531	211	31	7	46	19	67.4	76.3	81.2	-13.1	56.2	48.4	49.2	57.6	53.2	40.8	39.0	53.6	40.0	38.9	40.0	44.4				
Cherry Avenue s/o Spring Street																																								
Existing AM		6	15	21,448	40	1000	0	0	1.8%	0.7%	54.8	####	####	####	338	134	19	4	29	12	67.4	76.3	81.2	-13.1	54.3	46.4	47.2	55.6	51.3	38.8	37.1	51.7	38.1	36.9	38.0	42.5				
Existing PM		6	15	23,760	40	1000	0	0	1.8%	0.7%	55.3	####	####	####	374	148	22	5	32	13	67.4	76.3	81.2	-13.1	54.7	46.8	47.7	56.0	51.7	39.3	37.5	52.1	38.5	37.4	38.4	42.9				
Existing + Project AM		6	15	21,576	40	1000	0	0	1.8%	0.7%	54.9	####	####	####	340	135	20	4	29	12	67.4	76.3	81.2	-13.1	54.3	46.4	47.2	55.6	51.3	38.8	37.1	51.7	38.1	37.0	38.0	42.5				
Existing + Project PM		6	15	23,904	40	1000	0	0	1.8%	0.7%	55.3	####	####	####	376	149	22	5	32	13	67.4	76.3	81.2	-13.1	54.7	46.9	47.7	56.1	51.7	39.3	37.5	52.1	38.5	37.4	38.5	42.9				
General Plan Buildout w/out Project AM		6	15	26,840	40	1000	0	0	1.8%	0.7%	55.8	####	####	####	422	167	24	5	36	15	67.4	76.3	81.2	-13.1	55.2	47.4	48.2	56.6	52.2	39.8	38.0	52.6	39.1	37.9	39.0	43.4				
General Plan Buildout w/out Project PM		6	15	29,704	40	1000	0	0	1.8%	0.7%	56.3	####	####	####	467	185	27	6	40	17	67.4	76.3	81.2	-13.1	55.7	47.8	48.6	57.0	52.7	40.2	38.5	53.1	39.5	38.4	39.4	43.9				
General Plan Buildout + Project AM		6	15	26,968	40	1000	0	0	1.8%	0.7%	55.8	####	####	####	424	168	25	5	37	15	67.4	76.3	81.2	-13.1	55.2	47.4	48.2	56.6	52.3	39.8	38.1	52.7	39.1	37.9	39.0	43.5				
General Plan Buildout + Project PM		6	15	29,848	40	1000	0	0	1.8%	0.7%	56.3	####	####	####	470	186	27	6	40	17	67.4	76.3	81.2	-13.1	55.7	47.8	48.7	57.0	52.7	40.2	38.5	53.1	39.5	38.4	39.4	43.9				
Spring Street e/o Cherry Avenue																																								
Existing AM		4	15	20,680	60	1000	0	0	1.8%	0.7%	59.0	####	####	####	325	129	19	4	28	12	74.2	80.8	84.5	-13.1	59.2	49.0	48.7	59.9	56.2	41.4	38.5	56.4	43.0	39.5	39.4	45.8				
Existing PM		4	15	19,816	60	1000	0	0	1.8%	0.7%	58.9	####	####	####	312	124	18	4	27	11	74.2	80.8	84.5	-13.1	59.0	48.8	48.5	59.7	56.0	41.2	38.3	56.2	42.8	39.3	39.3	45.6				
Existing + Project AM		4	15	21,120	60	1000	0	0	1.8%	0.7%	59.1	####	####	####	332	132	19	4	29	12	74.2	80.8	84.5	-13.1	59.3	49.1	48.8	60.0	56.3	41.5	38.6	56.5	43.1	39.6	39.5	45.9				
Existing + Project PM		4	15	20,344	60	1000	0	0	1.8%	0.7%	59.0	####	####	####	320	127	18	4	28	11	74.2	80.8	84.5	-13.1	59.1	48.9	48.6	59.8	56.1	41.3	38.4	56.3	42.9	39.5	39.4	45.7				
General Plan Buildout w/out Project AM		4	15	26,760	60	1000	0	0	1.8%	0.7%	60.2	####	####	####	421	167	24	5	36	15	74.2	80.8	84.5	-13.1	60.3	50.1	49.8	61.0	57.3	42.5	39.6	57.5	44.1	40.6	40.6	46.9				
General Plan Buildout w/out Project PM		4	15	25,648	60	1000	0	0	1.8%	0.7%	60.0	####	####	####	404	160	23	5	35	14	74.2	80.8	84.5	-13.1	60.1	49.9	49.6	60.8	57.1	42.3	39.5	57.3	43.9	40.5	40.4	46.7				
General Plan Buildout + Project AM		4	15	27,200	60	1000	0	0	1.8%	0.7%	60.2	####	####	####	428	170	25	5	37	15	74.2	80.8	84.5	-13.1	60.4	50.2	49.9	61.1	57.4	42.6	39.7	57.6	44.2	40.7	40.6	47.0				
General Plan Buildout + Project PM		4	15	26,176	60	1000	0	0	1.8%	0.7%	60.1	####	####	####	412	163	24	5	35	15	74.2	80.8	84.5	-13.1	60.2	50.0	49.7	60.9	57.2	42.4	39.5	57.4	44.0	40.6	40.5	46.8				
Spring Street w/o Cherry Avenue																																								
Existing AM		4	15	16,600	40	1000	0	0	1.8%	0.7%	53.7	####	####	####	261	104	15	3	22	9	67.4	76.3	81.2	-13.1	53.1	45.3	46.1	54.5	50.2	37.7	35.9	50.6	37.0	35.8	36.9	41.4				
Existing PM		4	15	16,992	40	1000	0	0	1.8%	0.7%	53.8	####	####	####	267	106	15	3	23	10	67.4	76.3	81.2	-13.1	53.2	45.4	46.2	54.6	50.3	37.8	36.0	50.7	37.1	35.9	37.0	41.5				
Existing + Project AM		4	15	17,088	40	1000	0	0	1.8%	0.7%	53.9	####	####	####	269	107	16	3	23	10	67.4	76.3	81.2	-13.1	53.3	45.4	46.2	54.6	50.3	37.8	36.1	50.7	37.1	36.0	37.0	41.5				
Existing + Project PM		4	15	17,584	40	1000	0	0	1.8%	0.7%	54.0	####	####	####	277	110	16	3	24	10	67.4	76.3	81.2	-13.1	53.4	45.5	46.4	54.7	50.4	37.9	36.2	50.8	37.2	36.1	37.1	41.6				
General Plan Buildout w/out Project AM		4	15	21,808	40	1000	0	0	1.8%	0.7%	54.9	####	####	####	343	136	20	4	30	12	67.4	76.3	81.2	-13.1	54.3	46.5	47.3	55.7	51.3	38.9	37.1	51.7	38.1	37.0	38.1	42.5				
General Plan Buildout w/out Project PM		4	15	22,240	40	1000	0	0	1.8%	0.7%	55.0	####	####	####	350	139	20	4	30	13	67.4	76.3	81.2	-13.1	54.4	46.6	47.4	55.7	51.4	39.0	37.2	51.8	38.2	37.1	38.1	42.6				
General Plan Buildout + Project AM		4	15	22,296	40	1000	0	0	1.8%	0.7%	55.0	####	####	####	351	139	20	4	30	13	67.4	76.3	81.2	-13.1	54.4	46.6	47.4	55.8	51.4	39.0	37.2	51.8	38.2	37.1	38.2	42.6				
General Plan Buildout + Project PM		4	15	22,832	40	1000	0	0	1.8%	0.7%	55.1	####	####	####	359	142	21	5	31	13	67.4	76.3	81.2	-13.1	54.5	46.7	47.5	55.9	51.5	39.1	37.3	51.9	38.3	37.2	38.3	42.7				

(1) Alpha Factor: Coefficient of absorption relating to the effects of the ground surface. An alpha factor of 0 indicates that the site is an acoustically "hard" site such as asphalt. An alpha factor of 0.5 indicates that the site is an acoustically "soft" site such as vegetative ground cover.

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

2
NOISE LEVEL CONTOURS - Existing PlusProject Weekday Off-Site ADT Volumes

										Traffic Volumes										Ref. Energy Level: Dist Ld										Le				Ln			
ROADWAY NAME			Median	ADT	Design	Dist. from		Barrier	Vehic le Mix		Day	Eve	Night	MTd	HTd	MTe	HTe	MTn	HTn	A	MT	HT	Adj	A	MT	HT	Total	A	MT	HT	Total	A	MT	HT	Total		
Segment	Land Use	Lanes	Width	Volume	Speed (mph)	Center to Receptor	tc	Alpha Factor (1)	Attn. dB(A)	Medium Trucks	Heavy Trucks	dB(A) CNEL																									
Cherry Avenue n/o Willow Street																																					
Existing AM		6	15	19,640	40	840	0	0	1.8%	0.7%	55.2	####	####	####	309	122	18	4	27	11	67.4	76.3	81.2	-12.3	54.6	46.8	47.6	56.0	51.6	39.2	37.4	52.0	38.5	37.3	38.4	42.8	
Existing PM		6	15	22,128	40	840	0	0	1.8%	0.7%	55.7	####	####	####	348	138	20	4	30	12	67.4	76.3	81.2	-12.3	55.1	47.3	48.1	56.5	52.2	39.7	38.0	52.6	39.0	37.8	38.9	43.4	
Existing + Project AM		6	15	19,768	40	840	0	0	1.8%	0.7%	55.3	####	####	####	311	123	18	4	27	11	67.4	76.3	81.2	-12.3	54.7	46.8	47.6	56.0	51.7	39.2	37.5	52.1	38.5	37.3	38.4	42.9	
Existing + Project PM		6	15	22,272	40	840	0	0	1.8%	0.7%	55.8	####	####	####	351	139	20	4	30	13	67.4	76.3	81.2	-12.3	55.2	47.3	48.1	56.5	52.2	39.7	38.0	52.6	39.0	37.9	38.9	43.4	
General Plan Buildout w/out Project AM		6	15	24,624	40	840	0	0	1.8%	0.7%	56.2	####	####	####	388	154	22	5	33	14	67.4	76.3	81.2	-12.3	55.6	47.8	48.6	57.0	52.6	40.2	38.4	53.0	39.4	38.3	39.3	43.8	
General Plan Buildout w/out Project PM		6	15	27,720	40	840	0	0	1.8%	0.7%	56.7	####	####	####	436	173	25	6	38	16	67.4	76.3	81.2	-12.3	56.1	48.3	49.1	57.5	53.1	40.7	38.9	53.5	39.9	38.8	39.9	44.3	
General Plan Buildout + Project AM		6	15	24,752	40	840	0	0	1.8%	0.7%	56.2	####	####	####	390	154	22	5	34	14	67.4	76.3	81.2	-12.3	55.6	47.8	48.6	57.0	52.7	40.2	38.4	53.0	39.5	38.3	39.4	43.8	
General Plan Buildout + Project PM		6	15	27,864	40	840	0	0	1.8%	0.7%	56.7	####	####	####	439	174	25	6	38	16	67.4	76.3	81.2	-12.3	56.1	48.3	49.1	57.5	53.2	40.7	39.0	53.6	40.0	38.8	39.9	44.4	
Cherry Avenue s/o Willow Street																																					
Existing AM		6	5	20,112	40	680	0	0	1.8%	0.7%	56.2	####	####	####	317	125	18	4	27	11	67.4	76.3	81.2	-11.4	55.6	47.8	48.6	57.0	52.7	40.2	38.5	53.1	39.5	38.3	39.4	43.9	
Existing PM		6	5	21,840	40	680	0	0	1.8%	0.7%	56.6	####	####	####	344	136	20	4	30	12	67.4	76.3	81.2	-11.4	56.0	48.1	49.0	57.3	53.0	40.6	38.8	53.4	39.8	38.7	39.7	44.2	
Existing + Project AM		6	5	20,368	40	680	0	0	1.8%	0.7%	56.3	####	####	####	321	127	19	4	28	11	67.4	76.3	81.2	-11.4	55.7	47.8	48.7	57.0	52.7	40.3	38.5	53.1	39.5	38.4	39.4	43.9	
Existing + Project PM		6	5	22,136	40	680	0	0	1.8%	0.7%	56.7	####	####	####	348	138	20	4	30	12	67.4	76.3	81.2	-11.4	56.1	48.2	49.0	57.4	53.1	40.6	38.9	53.5	39.9	38.8	39.8	44.3	
General Plan Buildout w/out Project AM		6	5	25,504	40	680	0	0	1.8%	0.7%	57.3	####	####	####	401	159	23	5	35	14	67.4	76.3	81.2	-11.4	56.7	48.8	49.7	58.0	53.7	41.2	39.5	54.1	40.5	39.4	40.4	44.9	
General Plan Buildout w/out Project PM		6	5	27,592	40	680	0	0	1.8%	0.7%	57.6	####	####	####	434	172	25	5	37	16	67.4	76.3	81.2	-11.4	57.0	49.2	50.0	58.4	54.0	41.6	39.8	54.4	40.8	39.7	40.8	45.2	
General Plan Buildout + Project AM		6	5	25,760	40	680	0	0	1.8%	0.7%	57.3	####	####	####	405	161	23	5	35	15	67.4	76.3	81.2	-11.4	56.7	48.9	49.7	58.1	53.7	41.3	39.5	54.1	40.5	39.4	40.5	44.9	
General Plan Buildout + Project PM		6	5	27,888	40	680	0	0	1.8%	0.7%	57.7	####	####	####	439	174	25	6	38	16	67.4	76.3	81.2	-11.4	57.1	49.2	50.0	58.4	54.1	41.6	39.9	54.5	40.9	39.8	40.8	45.3	
Willow Street e/o Cherry Avenue																																					
Existing AM		6	20	21,560	45	875	0	0	1.8%	0.7%	56.7	####	####	####	339	134	20	4	29	12	69.3	77.6	82.1	-12.5	56.3	47.8	48.3	57.5	53.3	40.2	38.1	53.7	40.2	38.3	39.1	44.0	
Existing PM		6	20	27,176	45	875	0	0	1.8%	0.7%	57.7	####	####	####	428	169	25	5	37	15	69.3	77.6	82.1	-12.5	57.3	48.8	49.3	58.5	54.4	41.2	39.1	54.7	41.2	39.3	40.1	45.0	
Existing + Project AM		6	20	22,096	45	875	0	0	1.8%	0.7%	56.8	####	####	####	348	138	20	4	30	12	69.3	77.6	82.1	-12.5	56.4	47.9	48.4	57.6	53.5	40.3	38.2	53.8	40.3	38.4	39.2	44.1	
Existing + Project PM		6	20	27,824	45	875	0	0	1.8%	0.7%	57.8	####	####	####	438	174	25	6	38	16	69.3	77.6	82.1	-12.5	57.4	48.9	49.4	58.6	54.5	41.3	39.2	54.8	41.3	39.4	40.2	45.1	
General Plan Buildout w/out Project AM		6	20	27,824	45	875	0	0	1.8%	0.7%	57.8	####	####	####	438	174	25	6	38	16	69.3	77.6	82.1	-12.5	57.4	48.9	49.4	58.6	54.5	41.3	39.2	54.8	41.3	39.4	40.2	45.1	
General Plan Buildout w/out Project PM		6	20	34,800	45	875	0	0	1.8%	0.7%	58.8	####	####	####	548	217	32	7	47	20	69.3	77.6	82.1	-12.5	58.4	49.9	50.4	59.5	55.4	42.3	40.2	55.8	42.2	40.4	41.1	46.1	
General Plan Buildout + Project AM		6	20	28,360	45	875	0	0	1.8%	0.7%	57.9	####	####	####	446	177	26	6	38	16	69.3	77.6	82.1	-12.5	57.5	49.0	49.5	58.7	54.5	41.4	39.3	54.9	41.3	39.5	40.3	45.2	
General Plan Buildout + Project PM		6	20	35,448	45	875	0	0	1.8%	0.7%	58.8	####	####	####	558	221	32	7	48	20	69.3	77.6	82.1	-12.5	58.5	50.0	50.5	59.6	55.5	42.4	40.3	55.8	42.3	40.5	41.2	46.2	
Willow Street w/o Cherry Avenue																																					
Existing AM		6	4	20,896	40	390	0	0	1.8%	0.7%	58.8	####	####	####	329	130	19	4	28	12	67.4	76.3	81.2	-9.0	58.2	50.4	51.2	59.6	55.3	42.8	41.0	55.7	42.1	40.9	42.0	46.5	
Existing PM		6	4	24,504	40	390	0	0	1.8%	0.7%	59.5	####	####	####	386	153	22	5	33	14	67.4	76.3	81.2	-9.0	58.9	51.1	51.9	60.3	56.0	43.5	41.7	56.3	42.8	41.6	42.7	47.1	
Existing + Project AM		6	4	21,448	40	390	0	0	1.8%	0.7%	59.0	####	####	####	338	134	19	4	29	12	67.4	76.3	81.2	-9.0	58.4	50.5	51.3	59.7	55.4	42.9	41.2	55.8	42.2	41.0	42.1	46.6	
Existing + Project PM		6	4	25,176	40	390	0	0	1.8%	0.7%	59.6	####	####	####	396	157	23	5	34	14	67.4	76.3	81.2	-9.0	59.0	51.2	52.0	60.4	56.1	43.6	41.9	56.5	42.9	41.7	42.8	47.3	
General Plan Buildout w/out Project AM		6	4	26,128	40	390	0	0	1.8%	0.7%	59.8	####	####	####	411	163	24	5	35	15	67.4	76.3	81.2	-9.0	59.2	51.4	52.2	60.6	56.2	43.8	42.0	56.6	43.0	41.9	42.9	47.4	
General Plan Buildout w/out Project PM		6	4	30,656	40	390	0	0	1.8%	0.7%	60.5	####	####	####	482	191	28	6	41	17	67.4	76.3	81.2	-9.0	59.9	52.0	52.9	61.2	56.9	44.5	42.7	57.3	43.7	42.6	43.6	48.1	
General Plan Buildout + Project AM		6	4	26,680	40	390	0	0	1.8%	0.7%	59.9	####	####	####	420	166	24	5	36	15	67.4	76.3	81.2	-9.0	59.3	51.4	52.3	60.6	56.3	43.9	42.1	56.7	43.1	42.0	43.0	47.5	
General Plan Buildout + Project PM		6	4	31,328	40	390	0	0	1.8%	0.7%	60.6	####	####	####	493	195	28	6	42	18	67.4	76.3	81.2	-9.0	60.0	52.1	53.0	61.3	57.0	44.6	42.8	57.4	43.8	42.7	43.7	48.2	

(1) Alpha Factor: Coefficient of absorption relating to the effects of the ground surface. An alpha factor of 0 indicates that the site is an acoustically "hard" site such as asphalt. An alpha factor of 0.5 indicates that the site is an acoustically "soft" site such as vegetative ground cover.

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

(1) Alpha Factor: Coefficient of absorption relating to the effects of the ground surface. An alpha factor of 0 indicates that the site is an acoustically "hard" site such as asphalt. An alpha factor of 0.5 indicates that the site is an acoustically "soft" site such as vegetative ground cover.

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%



G.3

Construction Noise Data

Roadway Construction Noise Model (RCNM), Version 1.1

Report da: #####

Case Desc| OB - Site Preparation

---- Receptor #1 ----

Baselines (dBA)

Descriptio Land Use	Daytime	Evening	Night
Nearest R Commerci	71.2	71.2	71.2

Equipment

Spec	Actual	Receptor	Estimated
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	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Dozer	No	40		81.7	55	0
Dozer	No	40		81.7	55	0
Dozer	No	40		81.7	55	0
Backhoe	No	40		77.6	55	0
Backhoe	No	40		77.6	55	0
Front End Loader	No	40		79.1	55	0
Tractor	No	40	84		55	0

Results

Calculated (dBA)

Noise Limits (dBA)

Noise Limit Exceedance (dBA)

[illegible]

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report dai #####

Case Desc| OB - Grading

---- Receptor #1 ----

Baselines (dBA)

Descriptio Land Use	Daytime	Evening	Night
Nearest R Commercial	71.2	71.2	71.2

Equipment

Spec	Actual	Receptor	Estimated
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	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Excavator	No	40		80.7	55	0
Grader	No	40	85		55	0
Dozer	No	40		81.7	55	0
Backhoe	No	40		77.6	55	0
Front End Loader	No	40		79.1	55	0
Tractor	No	40	84		55	0

Results

Calculated (dBA)

Noise Limits (dBA)

Noise Limit Exceedance (dBA)

Equipment	Day				Evening		Night		Day				Evening		Night	
	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator	79.9		75.9	N/A	N/A		N/A	N/A	N/A		N/A	N/A	N/A		N/A	N/A
Grader	84.2		80.2	N/A	N/A		N/A	N/A	N/A		N/A	N/A	N/A		N/A	N/A
Dozer	80.8		76.9	N/A	N/A		N/A	N/A	N/A		N/A	N/A	N/A		N/A	N/A
Backhoe	76.7		72.8	N/A	N/A		N/A	N/A	N/A		N/A	N/A	N/A		N/A	N/A
Front End Loader	78.3		74.3	N/A	N/A		N/A	N/A	N/A		N/A	N/A	N/A		N/A	N/A
Tractor	83.2		79.2	N/A	N/A		N/A	N/A	N/A		N/A	N/A	N/A		N/A	N/A
Total	84.2		85.1	N/A	N/A		N/A	N/A	N/A		N/A	N/A	N/A		N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report dai #####

Case Desc|OB - Building Construction

---- Receptor #1 ----

Baselines (dBA)

Descriptio Land Use	Daytime	Evening	Night
Nearest R Commercial	71.2	71.2	71.2

Equipment

			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Crane	No	16		80.6	55	0
Forklift	No	40		85	55	0
Forklift	No	40		85	55	0
Forklift	No	40		85	55	0
Generator	No	50		80.6	55	0
Tractor	No	40	84		55	0
Front End Loader	No	40		79.1	55	0
Backhoe	No	40		77.6	55	0
Welder / Torch	No	40		74	55	0

Results

[illegible]

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report dai #####

Case Desc| OB - Paving

---- Receptor #1 ----

Baselines (dBA)

Descriptio	Land Use	Daytime	Evening	Night
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Nearest Retail Commercial	71.2	71.2	71.2
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Equipment

Spec	Actual	Receptor	Estimated
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Lmax	Lmax	Distance	Shielding
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Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
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Paver	No	50	77.2	55	0
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Paver	No	50	77.2	55	0
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Roller	No	20	80	55	0
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Roller	No	20	80	55	0
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Paver	No	50	77.2	55	0
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Paver	No	50	77.2	55	0
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Results

Calculated (dBA)

Noise Limits (dBA)

Noise Limit Exceedance (dBA)

Day

Evening

Night

Day

Evening

Night

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report da #####

Case Description: OB Architectural Coating

---- Receptor #1 ----

Baselines (dBA)

Descriptio Land Use	Daytime	Evening	Night
Nearest R Commerce	71.2	71.2	71.2

Equipment

Description	Impact Device	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Compressor (air)	No	40		77.7	55	0

Results

	Calculated (dBA)			Noise Limits (dBA)			Noise Limit Exceedance (dBA)							
	*Lmax	Leq	Day	Leq	Evening	Night	Day	Evening	Night	Leq	Lmax	Leq	Lmax	Leq
Equipment														
Compressor (air)	76.8	72.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	76.8	72.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 9/13/2021

Case Description: WB - Site Preparation

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Receptor	Residential	70.5	70.5	70.5

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec	Actual		
			Lmax	Lmax		
			(dBA)	(dBA)		
Grader	No	40	85		100	0
Dozer	No	40		81.7	100	0
Backhoe	No	40		77.6	100	0

Results

[illegible]

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 9/13/2021
Case Description: WB - Grading

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Receptor (Residential)	Residential	70.5	70.5	70.5

Equipment

Description	Impact Device	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Grader	No	40	85		100	0
Dozer	No	40		81.7	100	0
Backhoe	No	40		77.6	100	0
Front End Loader	No	40		79.1	100	0

Results

[illegible]

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 9/13/2021
Case Description: WB - Building Construction

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Receptor (Residential)	Residential	70.5	70.5	70.5

Equipment

Description	Impact Device	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Crane	No	16		80.6	100	0
Forklift	No	40		85	100	0
Generator	No	50		80.6	100	0
Backhoe	No	40		77.6	100	0
Welder / Torch	No	40		74	100	0
Welder / Torch	No	40		74	100	0
Welder / Torch	No	40		74	100	0

Results

[illegible]

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 9/13/2021
Case Description: WB - Paving

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Receptor (Residential)	Residential	70.5	70.5	70.5

Equipment

Description	Impact Device	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Drum Mixer	No	50		80	100	0
Paver	No	50		77.2	100	0
Paver	No	50		77.2	100	0
Roller	No	20		80	100	0
Backhoe	No	40		77.6	100	0

Results

[illegible]

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 9/13/2021
Case Description: WB - Architectural Coating

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Receptor (Residential)	Residential	70.5	70.5	70.5

Description	Impact Device	Usage(%)	Equipment			
			Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Compressor (air)	No	40		77.7	100	0

Results

		Calculated (dBA)			Noise Limits (dBA)			Noise Limit Exceedance (dBA)											
		Day			Evening			Night			Day			Evening			Night		
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
Compressor (air)		71.6	67.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Total	71.6	67.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		*Calculated Lmax is the Loudest value.																	

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 9/13/2021
Case Description: TCN - Site Preparation

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Receptor (Residential)	Residential	72.7	72.7	72.7

Equipment

Description	Impact	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax	Lmax	Distance	Shielding
	Device		(dBA)	(dBA)	(feet)	(dBA)
Dozer	No	40		81.7	170	0
Dozer	No	40		81.7	170	0
Dozer	No	40		81.7	170	0
Backhoe	No	40		77.6	170	0
Backhoe	No	40		77.6	170	0
Front End Loader	No	40		79.1	170	0
Tractor	No	40	84		170	0

Results

[illegible]

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 9/13/2021
Case Description: TCN - Grading

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Receptor (Residential)	Residential	72.7	72.7	72.7

Description	Impact	Usage(%)	Equipment			
			Spec	Actual	Receptor	Estimated
			Lmax	Lmax	Distance	Shielding
			Device	(dBA)	(dBA)	(feet)
Excavator	No	40		80.7	170	0
Grader	No	40	85		170	0
Dozer	No	40		81.7	170	0
Backhoe	No	40		77.6	170	0
Front End Loader	No	40		79.1	170	0
Tractor	No	40	84		170	0

Results

[illegible]

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 9/13/2021
Case Description: TCN - Building Construction

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Receptor (Residential)	Residential	72.7	72.7	72.7

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Crane	No	16		80.6	170	0
Forklift	No	40		85	170	0
Forklift	No	40		85	170	0
Forklift	No	40		85	170	0
Generator	No	50		80.6	170	0
Tractor	No	40	84		170	0
Front End Loader	No	40		79.1	170	0
Backhoe	No	40		77.6	170	0
Welder / Torch	No	40		74	170	0

Results

[illegible]

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 9/13/2021
Case Description: TCN - Paving

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Receptor (Residential)	Residential	72.7	72.7	72.7

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Paver	No	50		77.2	170	0
Paver	No	50		77.2	170	0
Roller	No	20		80	170	0
Roller	No	20		80	170	0
Paver	No	50		77.2	170	0
Paver	No	50		77.2	170	0

Results

[illegible]

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 9/13/2021
Case Description: TCN - Architectural Coating

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Receptor (Residential)	Residential	72.7	72.7	72.7

Equipment

Description	Impact Device	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Compressor (air)	No	40		77.7	170	0

Results

		Calculated (dBA)			Noise Limits (dBA)					Noise Limit Exceedance (dBA)				
		Day			Evening		Night		Day		Evening		Night	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Compressor (air)		67	63.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	67	63.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		*Calculated Lmax is the Loudest value.												

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 9/13/2021
Case Description: HS - Site Preparation

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Receptor (Residential)	Residential	52	52	52

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Dozer	No	40		81.7	30	0
Dozer	No	40		81.7	30	0
Dozer	No	40		81.7	30	0
Backhoe	No	40		77.6	30	0
Backhoe	No	40		77.6	30	0
Front End Loader	No	40		79.1	30	0
Tractor	No	40	84		30	0

Results

[illegible]

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 9/13/2021
Case Description: HS - Demolition

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Receptor (Residential)	Residential	52	52	52

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Concrete Saw	No	20		89.6	30	0
Excavator	No	40		80.7	30	0
Excavator	No	40		80.7	30	0
Excavator	No	40		80.7	30	0
Dozer	No	40		81.7	30	0
Dozer	No	40		81.7	30	0

Results

Equipment	Calculated (dBA)			Noise Limits (dBA)					Noise Limit Exceedance (dBA)					
	*Lmax	Leq	Day	Leq	Lmax	Leq	Lmax	Leq	Day	Leq	Lmax	Leq	Lmax	Leq
			Lmax						Evening					
Concrete Saw	94	87	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	85.1	81.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	85.1	81.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	85.1	81.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	86.1	82.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	86.1	82.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	94	90.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
*Calculated Lmax is the Loudest value.														

Roadway Construction Noise Model (RCNM), Version 1.2

Report date: 9/13/2021
Case Description: HS - Grading

---- Receptor #1 ---

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Receptor (Residential)	Residential	52	52	52

Equipment

Description	Impact Device	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Excavator	No	40		80.7	30	0
Grader	No	40	85		30	0
Dozer	No	40		81.7	30	0
Backhoe	No	40		77.6	30	0
Front End Loader	No	40		79.1	30	0
Tractor	No	40	84		30	0

Results

			Calculated (dBA)		Noise Limits (dBA)				Noise Limit Exceedance (dBA)					
			Day		Evening		Night		Day		Evening		Night	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator	85.1	81.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader	89.4	85.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	86.1	82.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	82	78	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	83.5	79.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	88.4	84.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	89.4	90.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
*Calculated Lmax is the Loudest value.														

*Calculated Lmax is the Loudest value

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 9/13/2021
Case Description: HS - Building Construction

		---- Receptor #1 ----		
		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Receptor (Residential)	Residential	52	52	52

		Equipment				
		Impact	Spec	Actual	Receptor	Estimated
		Device	Usage(%)	Lmax (dBA)	Lmax (dBA)	Distance (feet)
Crane		No	16		80.6	30
Forklift		No	40		85	30
Forklift		No	40		85	30
Forklift		No	40		85	30
Generator		No	50		80.6	30
Tractor		No	40	84		30
Front End Loader		No	40		79.1	30
Backhoe		No	40		77.6	30
Welder / Torch		No	40		74	30

		Results													
		Calculated (dBA)			Noise Limits (dBA)						Noise Limit Exceedance (dBA)				
		*Lmax	Leq	Day Lmax	Leq	Lmax	Leq	Night Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq	Night Lmax	Leq
Equipment															
Crane		85		77	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Forklift		89.4		85.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Forklift		89.4		85.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Forklift		89.4		85.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Generator		85.1		82.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor		88.4		84.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader		83.5		79.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe		82		78	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch		78.4		74.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	89.4		92.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		*Calculated Lmax is the Loudest value.													

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 9/13/2021
Case Description: HS - Paving

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Receptor (Residential)	Residential	52	52	52

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Paver	No	50		77.2	30	0
Paver	No	50		77.2	30	0
Roller	No	20		80	30	0
Roller	No	20		80	30	0
Paver	No	50		77.2	30	0
Paver	No	50		77.2	30	0

Equipment	Results													
	Calculated (dBA)			Noise Limits (dBA)						Noise Limit Exceedance (dBA)				
	*Lmax	Leq	Day Lmax	Leq	Evening		Night		Day Lmax	Leq	Evening Lmax	Leq	Night Lmax	Leq
					Lmax	Leq	Lmax	Leq						
Paver	81.7	78.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	81.7	78.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	84.4	77.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	84.4	77.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	81.7	78.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	81.7	78.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	84.4	86.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
*Calculated Lmax is the Loudest value.														

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 9/13/2021
Case Description: Architectural Coating

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Receptor (Residential)	Residential	52	52	52

Description	Impact Device	Usage(%)	Equipment			
			Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Compressor (air)	No	40		77.7	30	0

Results

		Calculated (dBA)			Noise Limits (dBA)					Noise Limit Exceedance (dBA)									
				Day			Evening			Night			Day			Evening			Night
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)		82.1	78.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	82.1	78.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		*Calculated Lmax is the Loudest value.																	



G.4

Construction Vibration Data

**Orange Bluff Site
Construction Vibration Model
(55 feet)**

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	55	0.027	0.007	77
Jackhammer		1	0.035	55	0.011	0.003	69
Large bulldozer		1	0.089	55	0.027	0.007	77
Loaded trucks		1	0.076	55	0.023	0.006	75
Pile Drive (impact)		1	0.644	55	0.197	0.049	94
Vibratory Roller		1	0.210	55	0.064	0.016	84
Small bulldozer		1	0.003	55	0.001	0.000	47

*** Suggested Vibration Thresholds per the Federal Transit Administration, United States Department of Transportation, Transit Noise and Vibration Impact Assessment (FTA-VA-90-1003-06), May 2006, pg. 12-12.**

-Fragile Buildings- 0.20 in/sec

**Walnut Bluff Site
Construction Vibration Model
(100 feet)**

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	100	0.011	0.003	69
Jackhammer		1	0.035	100	0.004	0.001	61
Large bulldozer		1	0.089	100	0.011	0.003	69
Loaded trucks		1	0.076	100	0.010	0.002	68
Pile Drive (impact)		1	0.644	100	0.081	0.020	86
Vibratory Roller		1	0.210	100	0.026	0.007	76
Small bulldozer		1	0.003	100	0.000	0.000	39

*** Suggested Vibration Thresholds per the Federal Transit Administration, United States Department of Transportation, Transit Noise and Vibration Impact Assessment (FTA-VA-90-1003-06), May 2006, pg. 12-12.**

-Fragile Buildings- 0.20 in/sec

**Town Center Northwest Site
Construction Vibration Model
(170 feet)**

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	170	0.005	0.001	62
Jackhammer		1	0.035	170	0.002	0.000	54
Large bulldozer		1	0.089	170	0.005	0.001	62
Loaded trucks		1	0.076	170	0.004	0.001	61
Pile Drive (impact)		1	0.644	170	0.036	0.009	79
Vibratory Roller		1	0.210	170	0.012	0.003	69
Small bulldozer		1	0.003	170	0.000	0.000	33

*** Suggested Vibration Thresholds per the Federal Transit Administration, United States Department of Transportation, Transit Noise and Vibration Impact Assessment (FTA-VA-90-1003-06), May 2006, pg. 12-12.**

-Fragile Buildings- 0.20 in/sec

**Heritage Square Site
Construction Vibration Model
(30 feet)**

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		1	0.035	30	0.027	0.007	76
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 (FTA-VA-90-1003-06), May 2006, pg. 12-12.**

-Fragile Buildings- 0.20 in/sec