

Appendix F

Noise Modeling Data



Day Cable Crossing Equipment (no helicopter)

Location	Distance to Nearest Receptor in feet	Combined Predicted Noise Level (L _{eq} dBA)	Equipment	Reference Emission	Usage
				Noise Levels (L _{max}) at 50 feet ¹	Factor ¹
Threshold	967	55.0	Excavator	85	0.4
Residence 1	600	58.7	Dozer	85	0.4
Residence 2	50	87.2	Dump Truck	84	0.4
			Front End Loader	80	0.4
			Grader	85	0.4

Ground Type soft
 Source Height 8
 Receiver Height 5
 Ground Factor² 0.63

Predicted Noise Level ³	L _{eq} dBA at 50 feet ³
Excavator	81.0
Dozer	81.0
Dump Truck	80.0
Front End Loader	76.0
Grader	81.0

Combined Predicted Noise Level (L_{eq} dBA at 50 feet)
 87.2

Sources:

¹ Obtained from the FHWA Roadway Construction Noise Model, January 2006. Table 1.

² Based on Figure 6-5 from the Federal Transit Noise and Vibration Impact Assessment, 2006 (pg 6-23).

³ Based on the following from the Federal Transit Noise and Vibration Impact Assessment, 2006 (pg 12-3).

$$L_{eq}(\text{equip}) = E.L. + 10 \cdot \log(U.F.) - 20 \cdot \log(D/50) - 10 \cdot G \cdot \log(D/50)$$

Where: E.L. = Emission Level;

U.F. = Usage Factor;

G = Constant that accounts for topography and ground effects (FTA 2006: pg 6-23); and

D = Distance from source to receiver.

Traffic Noise Spreadsheet Calculator



Project:			Input										Output				
Noise Level Descriptor: Ldn Site Conditions: Hard Traffic Input: ADT Traffic K-Factor:			Distance to Directional Centerline, (feet) ₄		Traffic Distribution Characteristics						Ldn, (dBA) _{5,6,7}		Distance to Contour, (feet) ₃				
Number	Name	Segment Description and Location From To	ADT	Speed (mph)	Near	Far	% Auto	% Medium	% Heavy	% Day	% Eve	% Night	75 dBA	70 dBA	65 dBA	60 dBA	
Existing Conditions																	
1	Laguna Boulevard	From Harbour Point Drive to Franklin Boulevard	32,200	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	72.0	25	78	248	783
2	Laguna Boulevard	From Franklin Boulevard to Bruceville Road	34,000	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	72.2	26	83	262	827
3	Laguna Boulevard	From Bruceville Road to Big Horn Boulevard	38,900	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	72.8	30	95	299	946
4	Laguna Boulevard	From Big Horn Boulevard to Laguna Springs Drive	53,200	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	74.1	41	129	409	1294
5	Bond Road	From E. Stockton Boulevard to Emerald Crest Drive	35,800	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	72.4	28	87	275	871
6	Bond Road	From Elk Grove Florin Road to Waterman Road	25,500	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	70.9	20	62	196	620
7	Bond Road	From Waterman Road to Bradshaw Road	12,600	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	67.9	10	31	97	307
8	Bond Road	From Bradshaw Road to Grant Line Road	5,200	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	64.0	4	13	40	127
9	Elk Grove Boulevard	From Harbour Point Drive to Franklin Boulevard	33,500	50	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	73.5	35	111	351	1110
10	Elk Grove Boulevard	From Franklin Boulevard to Bruceville Road	35,200	50	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	73.7	37	117	369	1167
11	Elk Grove Boulevard	From Bruceville Road to Big Horn Boulevard	39,600	50	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	74.2	42	131	415	1312
12	Elk Grove Boulevard	From Laguna Springs Drive to SR 99	47,400	50	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	75.0	50	157	497	1571
13	Elk Grove Boulevard	From E. Stockton Boulevard to Elk Grove Florin Road	31,500	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	68.8	12	38	120	381
14	Elk Grove Boulevard	From Elk Grove Florin Road to Waterman Road	17,700	25	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	63.0	3	10	32	100
15	Elk Grove Boulevard	From Bradshaw Road to Grant Line Road	3,400	40	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	60.7	2	6	19	59
16	Bilby Road	From Willard Parkway to Bruceville Road	6,900	55	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	67.8	10	30	96	304
17	Kammerer Road	From Bruceville Road to Promenade Parkway	8,700	55	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	68.8	12	38	121	383
18	Kammerer Road	From Promenade Parkway to SR 99	18,900	55	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	72.2	26	83	263	832
19	Grant Line Road	From E. Stockton Boulevard to Waterman Road	28,700	55	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	74.0	40	126	400	1264
20	Sheldon Road	From Lewis Stein Road to SR 99	38,500	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	72.7	30	94	296	937
21	Sheldon Road	From Elk Grove Florin Road to Waterman Road	14,800	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	68.6	11	36	114	360
22	Franklin Boulevard	From Big Horn Boulevard to Laguna Boulevard	24,900	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	70.8	19	61	192	606
23	Franklin Boulevard	From Laguna Boulevard to Elk Grove Boulevard	20,900	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	70.1	16	51	161	508
24	Franklin Boulevard	From Elk Grove Boulevard to Whitelock Parkway	22,100	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	70.3	17	54	170	538
25	Bruceville Road	From Big Horn Boulevard to Laguna Boulevard	31,300	40	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	70.4	17	54	172	544
26	Bruceville Road	From Laguna Boulevard to Elk Grove Boulevard	27,100	40	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	69.7	15	47	149	471
27	Bruceville Road	From Elk Grove Boulevard to Whitelock Parkway	26,600	40	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	69.7	15	46	146	462
28	Bruceville Road	From Whitelock Parkway to Bilby Road	8,600	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	66.2	7	21	66	209
29	Big Horn Boulevard	From Lewis Stein Road to Laguna Boulevard	15,900	40	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	67.4	9	28	87	276
30	Big Horn Boulevard	From Laguna Boulevard to Longleaf Drive	22,700	40	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	69.0	12	39	125	395
31	Big Horn Boulevard	From Elk Grove Boulevard to Civic Center Drive	16,300	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	69.0	13	40	125	397
32	Big Horn Boulevard	From Lotz Parkway to Whitelock Parkway	11,300	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	67.4	9	27	87	275
33	Power Inn Road	From Auburly Drive to Sheldon Road	9,300	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	63.5	4	11	36	112
34	Elk Grove Florin Road	From Calvine Road to Sheldon Road	29,800	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	71.6	23	73	229	725
35	Elk Grove Florin Road	From Sheldon Road to Bond Road	24,600	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	70.8	19	60	189	599
36	Elk Grove Florin Road	From Bond Road to Elk Grove Boulevard	18,400	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	66.5	7	22	70	222
37	Elk Grove Florin Road	From Valley Oak Lane to E. Stockton Boulevard	6,200	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	61.8	2	7	24	75
38	Waterman Road	From Sheldon Road to Bond Road	13,000	55	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	70.6	18	57	181	572
39	Waterman Road	From Bond Road to Elk Grove Boulevard	12,800	55	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	70.5	18	56	178	564
40	Waterman Road	From Mosher Road to Grant Line Road	7,700	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	65.7	6	19	59	187
41	Bradshaw Road	From Sheldon Road to Bond Road	16,500	55	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	71.6	23	73	230	727
42	Bradshaw Road	From Elk Grove Boulevard to Grant Line Road	8,400	55	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	68.7	12	37	117	370
43	Harbour Point Drive	From Laguna Boulevard to Babson Drive	13,300	40	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	66.6	7	23	73	231
44	Willard Parkway	From Whitelock Parkway to Blossom Ridge Drive	8,100	50	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	67.3	8	27	85	268
45	Willard Parkway	From Blossom Ridge Drive to Bilby Road	7,200	50	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	66.8	8	24	75	239

46	Bilby Road	From Franklin Boulevard to Willard Parkway	7,300	30	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	60.8	2	6	19	60
47	Civic Center Drive	From Bruceville Road to Wymark Drive	5,400	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	61.2	2	7	21	65
48	Civic Center Drive	From Wymark Drive to Big Horn Boulevard	6,200	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	61.8	2	7	24	75
49	Civic Center Drive	From Big Horn Boulevard to Laguna Springs Drive	3,000	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	58.6	1	4	11	36
50	Lotz Parkway	From Big Horn Boulevard to Laguna Springs Drive	5,700	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	61.4	2	7	22	69
51	Lotz Parkway	From Laguna Springs Drive to Whitelock Parkway	4,500	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	60.4	2	5	17	54
52	Whitelock Parkway	From Franklin Boulevard to Bruceville Road	15,000	40	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	67.2	8	26	82	261
53	Whitelock Parkway	From Bruceville Road to Big Horn Boulevard	13,600	40	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	66.7	7	24	75	236
54	Whitelock Parkway	From Big Horn Boulevard to Lotz Parkway	6,100	40	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	63.3	3	11	34	106
55	W. Stockton Bouelvard	From Lewis Stein Road to Michener Way	5,600	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	61.3	2	7	21	68
56	W. Stockton Bouelvard	From Dunisch Road to Laguna Boulevard	5,600	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	61.3	2	7	21	68
57	W. Stockton Bouelvard	From Whitelock Parkway to Kyler Road	8,400	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	63.1	3	10	32	102
58	Poppy Ridge Road	From Bruceville Road to Cosby Way	1,700	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	56.1	1	2	6	21
59	Promenade Parkway	From Kyler Road to Kammerer Road	9,300	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	66.6	7	23	72	226
60	Laguna Springs Boulevard	From Laguna Boulevard to Longleaf Drive	19,500	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	66.7	7	24	75	236
61	Laguna Springs Boulevard	From Longleaf Drive to Elk Grove Boulevard	8,900	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	63.3	3	11	34	108
62	Laguna Springs Boulevard	From Elk Grove Boulevard to Civic Center Drive	8,000	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	62.9	3	10	31	97
63	Auto Center Drive	From Elk Grove Boulevard to W. Stockton Bouelvard	13,900	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	65.3	5	17	53	168
64	Lewis Stein Road	From Sheldon Road to W. Stockton Bouelvard	15,000	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	65.6	6	18	57	181
65	E. Stockton Boulevard	From Marketplace 99 South to Bond Road	12,200	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	64.7	5	15	47	147
66	E. Stockton Boulevard	From Bond Road to Banff Vista Drive	8,900	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	63.3	3	11	34	108
67	E. Stockton Boulevard	From Elk Grove Boulevard to SR 99 NB Ramps	26,700	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	68.1	10	32	102	323
68	E. Stockton Boulevard	From Elk Grove Florin Road to Grant Line Road	7,700	40	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	64.3	4	13	42	134
69	Emerald Vist Drive	From E. Stockton Bouelvard to Elk Grove Boulevard	10,400	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	64.0	4	13	40	126
70	Mosher Road	From Waterman Road to Grant Line Road	1,700	50	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	60.5	2	6	18	56
71	Krammerer Road Extension	From Willard Parkway to Bruceville Road	-		50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%					

*All modeling assumes average pavement, level roadways (less than 1.5% grade), constant traffic flow and does not account for shielding of any type or finite roadway adjustments. All levels are reported as A-weighted noise levels.

Traffic Noise Spreadsheet Calculator



Project:			Input										Output				
Noise Level Descriptor: Ldn Site Conditions: Hard Traffic Input: ADT Traffic K-Factor:			Distance to Directional Centerline, (feet) ₄		Traffic Distribution Characteristics						Ldn, (dBA) _{5,6,7}		Distance to Contour, (feet) ₃				
Number	Name	Segment Description and Location From To	ADT	Speed (mph)	Near	Far	% Auto	% Medium	% Heavy	% Day	% Eve	% Night	75 dBA	70 dBA	65 dBA	60 dBA	
Existing Conditions																	
1	Laguna Boulevard	From Harbour Point Drive to Franklin Boulevard	40,200	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	72.9	31	98	309	978
2	Laguna Boulevard	From Franklin Boulevard to Bruceville Road	37,600	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	72.6	29	91	289	915
3	Laguna Boulevard	From Bruceville Road to Big Horn Boulevard	43,100	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	73.2	33	105	332	1049
4	Laguna Boulevard	From Big Horn Boulevard to Laguna Springs Drive	56,200	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	74.4	43	137	432	1367
5	Bond Road	From E. Stockton Boulevard to Emerald Crest Drive	40,700	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	73.0	31	99	313	990
6	Bond Road	From Elk Grove Florin Road to Waterman Road	30,000	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	71.6	23	73	231	730
7	Bond Road	From Waterman Road to Bradshaw Road	17,000	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	69.2	13	41	131	414
8	Bond Road	From Bradshaw Road to Grant Line Road	9,000	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	66.4	7	22	69	219
9	Elk Grove Boulevard	From Harbour Point Drive to Franklin Boulevard	40,500	50	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	74.3	42	134	424	1342
10	Elk Grove Boulevard	From Franklin Boulevard to Bruceville Road	40,000	50	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	74.2	42	133	419	1326
11	Elk Grove Boulevard	From Bruceville Road to Big Horn Boulevard	42,800	50	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	74.5	45	142	449	1418
12	Elk Grove Boulevard	From Laguna Springs Drive to SR 99	53,800	50	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	75.5	56	178	564	1783
13	Elk Grove Boulevard	From E. Stockton Boulevard to Elk Grove Florin Road	38,300	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	69.7	15	46	146	463
14	Elk Grove Boulevard	From Elk Grove Florin Road to Waterman Road	21,300	25	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	63.8	4	12	38	120
15	Elk Grove Boulevard	From Bradshaw Road to Grant Line Road	15,200	40	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	67.2	8	26	84	264
16	Bilby Road	From Willard Parkway to Bruceville Road	2,100	55	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	62.7	3	9	29	92
17	Kammerer Road	From Bruceville Road to Promenade Parkway	54,500	55	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	76.8	76	240	759	2400
18	Kammerer Road	From Promenade Parkway to SR 99	88,100	55	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	78.9	123	388	1227	3880
19	Grant Line Road	From E. Stockton Boulevard to Waterman Road	89,300	55	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	79.0	124	393	1244	3933
20	Sheldon Road	From Lewis Stein Road to SR 99	48,400	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	73.7	37	118	372	1178
21	Sheldon Road	From Elk Grove Florin Road to Waterman Road	16,400	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	69.0	13	40	126	399
22	Franklin Boulevard	From Big Horn Boulevard to Laguna Boulevard	29,300	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	71.5	23	71	225	713
23	Franklin Boulevard	From Laguna Boulevard to Elk Grove Boulevard	25,800	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	71.0	20	63	199	628
24	Franklin Boulevard	From Elk Grove Boulevard to Whitelock Parkway	31,500	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	71.9	24	77	242	766
25	Bruceville Road	From Big Horn Boulevard to Laguna Boulevard	50,000	40	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	72.4	27	87	275	869
26	Bruceville Road	From Laguna Boulevard to Elk Grove Boulevard	45,600	40	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	72.0	25	79	251	793
27	Bruceville Road	From Elk Grove Boulevard to Whitelock Parkway	39,800	40	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	71.4	22	69	219	692
28	Bruceville Road	From Whitelock Parkway to Bilby Road	29,300	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	71.5	23	71	225	713
29	Big Horn Boulevard	From Lewis Stein Road to Laguna Boulevard	25,100	40	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	69.4	14	44	138	436
30	Big Horn Boulevard	From Laguna Boulevard to Longleaf Drive	33,100	40	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	70.6	18	58	182	575
31	Big Horn Boulevard	From Elk Grove Boulevard to Civic Center Drive	33,700	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	72.1	26	82	259	820
32	Big Horn Boulevard	From Lotz Parkway to Whitelock Parkway	27,000	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	71.2	21	66	208	657
33	Power Inn Road	From Auburly Drive to Sheldon Road	11,600	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	64.5	4	14	44	140
34	Elk Grove Florin Road	From Calvine Road to Sheldon Road	47,400	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	73.6	36	115	365	1153
35	Elk Grove Florin Road	From Sheldon Road to Bond Road	36,200	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	72.5	28	88	279	881
36	Elk Grove Florin Road	From Bond Road to Elk Grove Boulevard	25,600	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	67.9	10	31	98	309
37	Elk Grove Florin Road	From Valley Oak Lane to E. Stockton Boulevard	10,700	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	64.1	4	13	41	129
38	Waterman Road	From Sheldon Road to Bond Road	18,300	55	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	72.1	25	81	255	806
39	Waterman Road	From Bond Road to Elk Grove Boulevard	20,900	55	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	72.7	29	92	291	920
40	Waterman Road	From Mosher Road to Grant Line Road	19,900	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	69.9	15	48	153	484
41	Bradshaw Road	From Sheldon Road to Bond Road	28,400	55	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	74.0	40	125	396	1251
42	Bradshaw Road	From Elk Grove Boulevard to Grant Line Road	23,700	55	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	73.2	33	104	330	1044
43	Harbour Point Drive	From Laguna Boulevard to Babson Drive	15,300	40	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	67.3	8	27	84	266
44	Willard Parkway	From Whitelock Parkway to Blossom Ridge Drive	19,400	50	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	71.1	20	64	203	643
46	Willard Parkway	From Blossom Ridge Drive to Bilby Road	16,000	50	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	70.3	17	53	168	530

47	Bilby Road	From Franklin Boulevard to Willard Parkway	2,500	30	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	56.1	1	2	7	21
48	Civic Center Drive	From Bruceville Road to Wymark Drive	7,500	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	62.6	3	9	29	91
49	Civic Center Drive	From Wymark Drive to Big Horn Boulevard	9,300	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	63.5	4	11	36	112
50	Civic Center Drive	From Big Horn Boulevard to Laguna Springs Drive	6,000	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	61.6	2	7	23	73
51	Lotz Parkway	From Big Horn Boulevard to Laguna Springs Drive	7,900	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	62.8	3	10	30	95
52	Lotz Parkway	From Laguna Springs Drive to Whitelock Parkway	13,600	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	65.2	5	16	52	164
53	Whitelock Parkway	From Franklin Boulevard to Bruceville Road	16,900	40	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	67.7	9	29	93	294
54	Whitelock Parkway	From Bruceville Road to Big Horn Boulevard	22,000	40	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	68.8	12	38	121	382
55	Whitelock Parkway	From Big Horn Boulevard to Lotz Parkway	27,400	40	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	69.8	15	48	151	476
56	W. Stockton Bouelvard	From Lewis Stein Road to Michener Way	6,100	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	61.7	2	7	23	74
57	W. Stockton Bouelvard	From Dunisch Road to Laguna Boulevard	6,600	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	62.0	3	8	25	80
58	W. Stockton Bouelvard	From Whitelock Parkway to Kyler Road	15,400	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	65.7	6	19	59	186
59	Poppy Ridge Road	From Bruceville Road to Cosby Way	3,700	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	59.5	1	4	14	45
60	Promenade Parkway	From Kyler Road to Kammerer Road	16,300	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	69.0	13	40	125	397
61	Laguna Springs Boulevard	From Laguna Boulevard to Longleaf Drive	23,900	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	67.6	9	29	91	289
62	Laguna Springs Boulevard	From Longleaf Drive to Elk Grove Boulevard	12,800	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	64.9	5	15	49	155
63	Laguna Springs Boulevard	From Elk Grove Boulevard to Civic Center Drive	23,300	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	67.5	9	28	89	282
64	Auto Center Drive	From Elk Grove Boulevard to W. Stockton Bouelvard	14,600	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	65.5	6	18	56	176
65	Lewis Stein Road	From Sheldon Road to W. Stockton Bouelvard	15,000	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	65.6	6	18	57	181
66	E. Stockton Boulevard	From Marketplace 99 South to Bond Road	14,700	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	65.5	6	18	56	178
67	E. Stockton Boulevard	From Bond Road to Banff Vista Drive	13,300	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	65.1	5	16	51	161
68	E. Stockton Boulevard	From Elk Grove Boulevard to SR 99 NB Ramps	31,200	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	68.8	12	38	119	377
69	E. Stockton Boulevard	From Elk Grove Florin Road to Grant Line Road	15,200	40	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	67.2	8	26	84	264
70	Emerald Vist Drive	From E. Stockton Bouelvard to Elk Grove Boulevard	16,800	35	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	66.1	6	20	64	203
71	Mosher Road	From Waterman Road to Grant Line Road	4,000	50	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	64.2	4	13	42	133
72	Krammerer Road Extension	From Willard Parkway to Bruceville Road	32,800	45	50	50	97.0%	2.0%	1.0%	80.0%	15.0%	5.0%	72.0	25	80	252	798

*All modeling assumes average pavement, level roadways (less than 1.5% grade), constant traffic flow and does not account for shielding of any type or finite roadway adjustments. All levels are reported as A-weighted noise levels.

#	Road	Segment	In GP? (1=yes)	Existing 2019
1	Auto Center Drive	From Elk Grove Boulevard to W. Stockton Boulevard		65.3
2	Big Horn Boulevard	From Lewis Stein Road to Laguna Boulevard		67.4
3	Big Horn Boulevard	From Laguna Boulevard to Longleaf Drive		69.0
4	Big Horn Boulevard	From Elk Grove Boulevard to Civic Center Drive		69.0
5	Big Horn Boulevard	From Lotz Parkway to Whitelock Parkway*	1	67.4
6	Bilby Road	From Willard Parkway to Bruceville Road*	1	67.8
7	Bilby Road	From Franklin Boulevard to Willard Parkway*	1	60.8
8	Bond Road	From E. Stockton Boulevard to Emerald Crest Drive		72.4
9	Bond Road	From Elk Grove Florin Road to Waterman Road*	1	70.9
10	Bond Road	From Waterman Road to Bradshaw Road*	1	67.9
11	Bond Road	From Bradshaw Road to Grant Line Road		64.0
12	Bradshaw Road	From Sheldon Road to Bond Road*	1	71.6
13	Bradshaw Road	From Elk Grove Boulevard to Grant Line Road*	1	68.7
14	Bruceville Road	From Big Horn Boulevard to Laguna Boulevard*	1	70.4
15	Bruceville Road	From Laguna Boulevard to Elk Grove Boulevard*	1	69.7
16	Bruceville Road	From Elk Grove Boulevard to Whitelock Parkway*	1	69.7
17	Bruceville Road	From Whitelock Parkway to Bilby Road*	1	66.2
18	Civic Center Drive	From Bruceville Road to Wymark Drive		61.2
19	Civic Center Drive	From Wymark Drive to Big Horn Boulevard		61.8
20	Civic Center Drive	From Big Horn Boulevard to Laguna Springs Drive		58.6
21	E. Stockton Boulevard	From Marketplace 99 South to Bond Road		64.7
22	E. Stockton Boulevard	From Bond Road to Banff Vista Drive		63.3
23	E. Stockton Boulevard	From Elk Grove Boulevard to SR 99 NB Ramps		68.1
24	E. Stockton Boulevard	From Elk Grove Florin Road to Grant Line Road*	1	64.3
25	Elk Grove Boulevard	From Harbour Point Drive to Franklin Boulevard		73.5
26	Elk Grove Boulevard	From Franklin Boulevard to Bruceville Road*	1	73.7
27	Elk Grove Boulevard	From Bruceville Road to Big Horn Boulevard*	1	74.2
28	Elk Grove Boulevard	From Laguna Springs Drive to SR 99		75.0
29	Elk Grove Boulevard	From E. Stockton Boulevard to Elk Grove Florin Road*	1	68.8
30	Elk Grove Boulevard	From Elk Grove Florin Road to Waterman Road*	1	63.0
31	Elk Grove Boulevard	From Bradshaw Road to Grant Line Road*	1	60.7
32	Elk Grove Florin Road	From Calvine Road to Sheldon Road*	1	71.6
33	Elk Grove Florin Road	From Sheldon Road to Bond Road*	1	70.8
34	Elk Grove Florin Road	From Bond Road to Elk Grove Boulevard*	1	66.5

35	Elk Grove Florin Road	From Valley Oak Lane to E. Stockton Boulevard		61.8
36	Emerald Vist Drive	From E. Stockton Boulevard to Elk Grove Boulevard		64.0
37	Franklin Boulevard	From Big Horn Boulevard to Laguna Boulevard*	1	70.8
38	Franklin Boulevard	From Laguna Boulevard to Elk Grove Boulevard*	1	70.1
39	Franklin Boulevard	From Elk Grove Boulevard to Whitelock Parkway*	1	70.3
40	Grant Line Road	From E. Stockton Boulevard to Waterman Road*	1	74.0
41	Harbour Point Drive	From Laguna Boulevard to Babson Drive		66.6
42	Kammerer Road	From Bruceville Road to Promenade Parkway		68.8
43	Kammerer Road	From Promenade Parkway to SR 99*	1	72.2
44	Kammerer Road Extension	From Willard Parkway to Bruceville Road*	1	
45	Laguna Boulevard	From Harbour Point Drive to Franklin Boulevard		72.0
46	Laguna Boulevard	From Franklin Boulevard to Bruceville Road*	1	72.2
47	Laguna Boulevard	From Bruceville Road to Big Horn Boulevard*	1	72.8
48	Laguna Boulevard	From Big Horn Boulevard to Laguna Springs Drive*	1	74.1
49	Laguna Springs Boulevard	From Laguna Boulevard to Longleaf Drive		66.7
50	Laguna Springs Boulevard	From Longleaf Drive to Elk Grove Boulevard		63.3
51	Laguna Springs Boulevard	From Elk Grove Boulevard to Civic Center Drive		62.9
52	Lewis Stein Road	From Sheldon Road to W. Stockton Boulevard		65.6
53	Lotz Parkway	From Big Horn Boulevard to Laguna Springs Drive*	1	61.4
54	Lotz Parkway	From Laguna Springs Drive to Whitelock Parkway*	1	60.4
55	Mosher Road	From Waterman Road to Grant Line Road*	1	60.5
56	Poppy Ridge Road	From Bruceville Road to Cosby Way		56.1
57	Power Inn Road	From Auburly Drive to Sheldon Road		63.5
58	Promenade Parkway	From Kyler Road to Kammerer Road		66.6
59	Sheldon Road	From Lewis Stein Road to SR 99*	1	72.7
60	Sheldon Road	From Elk Grove Florin Road to Waterman Road*	1	68.6
61	W. Stockton Boulevard	From Lewis Stein Road to Michener Way		61.3
62	W. Stockton Boulevard	From Dunisch Road to Laguna Boulevard		61.3
63	W. Stockton Boulevard	From Whitelock Parkway to Kyler Road		63.1
64	Waterman Road	From Sheldon Road to Bond Road*	1	70.6
65	Waterman Road	From Bond Road to Elk Grove Boulevard*	1	70.5
66	Waterman Road	From Mosher Road to Grant Line Road		65.7
67	Whitelock Parkway	From Franklin Boulevard to Bruceville Road*	1	67.2
68	Whitelock Parkway	From Bruceville Road to Big Horn Boulevard*	1	66.7
69	Whitelock Parkway	From Big Horn Boulevard to Lotz Parkway*	1	63.3

70 Willard Parkway
71 Willard Parkway

From Whitelock Parkway to Blossom Ridge Drive
From Blossom Ridge Drive to Bilby Road

67.3
66.8

GP Build Out	Plus Project	Difference btwn Plus Project and GP Build Out
	65.5	
	69.4	
	70.6	
	72.1	
72.1	71.2	-0.9
71.9	62.7	-9.2
64.5	56.1	-8.4
74.1	73.0	
74.1	71.6	-2.5
72.9	69.2	-3.7
	66.4	
76.3	74.0	-2.3
76	73.2	-2.8
70.8	72.4	1.6
71	72.0	1.0
71.3	71.4	0.1
71.2	71.5	0.3
74.6	62.6	
71.3	63.5	
65.2	61.6	
62.4	65.5	
74.3	65.1	
72.1	68.8	
69.7	67.2	-2.5
	74.3	
73	74.2	1.2
74.6	74.5	-0.1
77.5	75.5	
71.3	69.7	-1.6
65.2	63.8	-1.4
62.4	67.2	4.8
74.3	73.6	-0.7
72.1	72.5	0.4
70.8	67.9	-2.9

67.2	64.1	
67.8	66.1	
71.4	71.5	0.1
70.9	71.0	0.1
68.8	71.9	3.1
77.5	79.0	1.5
64.9	67.3	
63.9	76.8	
77.4	78.9	1.5
74.8	72.0	-2.8
	72.9	
71	72.6	1.6
70.4	73.2	2.8
73.2	74.4	1.2
	67.6	
	64.9	
	67.5	
	65.6	
65.7	62.8	-2.9
67.2	65.2	-2.0
67.8	64.2	-3.6
	59.5	
	64.5	
	69.0	
72.6	73.7	1.1
68.8	69.0	0.2
	61.7	
	62.0	
	65.7	
69.4	72.1	2.7
73.8	72.7	-1.1
	69.9	
64.9	67.7	2.8
63.9	68.8	4.9
67	69.8	2.8

71.1

70.3

Road	Segment
1 Auto Center Drive	From Elk Grove Boulevard to W. Stockton Boulevard
2 Big Horn Boulevard	From Lewis Stein Road to Laguna Boulevard
3 Big Horn Boulevard	From Laguna Boulevard to Longleaf Drive
4 Big Horn Boulevard	From Elk Grove Boulevard to Civic Center Drive
5 Big Horn Boulevard	From Lotz Parkway to Whitelock Parkway
6 Bilby Road	From Willard Parkway to Bruceville Road
7 Bilby Road	From Franklin Boulevard to Willard Parkway
8 Bond Road	From E. Stockton Boulevard to Emerald Crest Drive
9 Bond Road	From Elk Grove Florin Road to Waterman Road
10 Bond Road	From Waterman Road to Bradshaw Road
11 Bond Road	From Bradshaw Road to Grant Line Road
12 Bradshaw Road	From Sheldon Road to Bond Road
13 Bradshaw Road	From Elk Grove Boulevard to Grant Line Road
14 Bruceville Road	From Big Horn Boulevard to Laguna Boulevard
15 Bruceville Road	From Laguna Boulevard to Elk Grove Boulevard
16 Bruceville Road	From Elk Grove Boulevard to Whitelock Parkway
17 Bruceville Road	From Whitelock Parkway to Bilby Road
18 Civic Center Drive	From Bruceville Road to Wymark Drive
19 Civic Center Drive	From Wymark Drive to Big Horn Boulevard
20 Civic Center Drive	From Big Horn Boulevard to Laguna Springs Drive
21 E. Stockton Boulevard	From Marketplace 99 South to Bond Road
22 E. Stockton Boulevard	From Bond Road to Banff Vista Drive
23 E. Stockton Boulevard	From Elk Grove Boulevard to SR 99 NB Ramps
24 E. Stockton Boulevard	From Elk Grove Florin Road to Grant Line Road
25 Elk Grove Boulevard	From Harbour Point Drive to Franklin Boulevard
26 Elk Grove Boulevard	From Franklin Boulevard to Bruceville Road
27 Elk Grove Boulevard	From Bruceville Road to Big Horn Boulevard
28 Elk Grove Boulevard	From Laguna Springs Drive to SR 99
29 Elk Grove Boulevard	From E. Stockton Boulevard to Elk Grove Florin Road
30 Elk Grove Boulevard	From Elk Grove Florin Road to Waterman Road
31 Elk Grove Boulevard	From Bradshaw Road to Grant Line Road
32 Elk Grove Florin Road	From Calvine Road to Sheldon Road
33 Elk Grove Florin Road	From Sheldon Road to Bond Road
34 Elk Grove Florin Road	From Bond Road to Elk Grove Boulevard
35 Elk Grove Florin Road	From Valley Oak Lane to E. Stockton Boulevard
36 Emerald Vista Drive	From E. Stockton Boulevard to Elk Grove Boulevard
37 Franklin Boulevard	From Big Horn Boulevard to Laguna Boulevard
38 Franklin Boulevard	From Laguna Boulevard to Elk Grove Boulevard
39 Franklin Boulevard	From Elk Grove Boulevard to Whitelock Parkway
40 Grant Line Road	From E. Stockton Boulevard to Waterman Road
41 Harbour Point Drive	From Laguna Boulevard to Babson Drive
42 Kammerer Road	From Bruceville Road to Promenade Parkway
43 Kammerer Road	From Promenade Parkway to SR 99
44 Kammerer Road Extension	From Willard Parkway to Bruceville Road
45 Laguna Boulevard	From Harbour Point Drive to Franklin Boulevard
46 Laguna Boulevard	From Franklin Boulevard to Bruceville Road

47 Laguna Boulevard	From Bruceville Road to Big Horn Boulevard
48 Laguna Boulevard	From Big Horn Boulevard to Laguna Springs Drive
49 Laguna Springs Boulevard	From Laguna Boulevard to Longleaf Drive
50 Laguna Springs Boulevard	From Longleaf Drive to Elk Grove Boulevard
51 Laguna Springs Boulevard	From Elk Grove Boulevard to Civic Center Drive
52 Lewis Stein Road	From Sheldon Road to W. Stockton Bouelvard
53 Lotz Parkway	From Big Horn Boulevard to Laguna Springs Drive
54 Lotz Parkway	From Laguna Springs Drive to Whitelock Parkway
55 Mosher Road	From Waterman Road to Grant Line Road
56 Poppy Ridge Road	From Bruceville Road to Cosby Way
57 Power Inn Road	From Auburry Drive to Sheldon Road
58 Promenade Parkway	From Kyler Road to Kammerer Road
59 Sheldon Road	From Lewis Stein Road to SR 99
60 Sheldon Road	From Elk Grove Florin Road to Waterman Road
61 W. Stockton Bouelvard	From Lewis Stein Road to Michener Way
62 W. Stockton Bouelvard	From Dunisch Road to Laguna Boulevard
63 W. Stockton Bouelvard	From Whitelock Parkway to Kyler Road
64 Waterman Road	From Sheldon Road to Bond Road
65 Waterman Road	From Bond Road to Elk Grove Boulevard
66 Waterman Road	From Mosher Road to Grant Line Road
67 Whitelock Parkway	From Franklin Boulevard to Bruceville Road
68 Whitelock Parkway	From Bruceville Road to Big Horn Boulevard
69 Whitelock Parkway	From Big Horn Boulevard to Lotz Parkway
70 Willard Parkway	From Whitelock Parkway to Blossom Ridge Drive
71 Willard Parkway	From Blossom Ridge Drive to Bilby Road

Existing 2019	Plus Project
65.3	65.5
67.4	69.4
69.0	70.6
69.0	72.1
67.4	71.2
67.8	62.7
60.8	56.1
72.4	73.0
70.9	71.6
67.9	69.2
64.0	66.4
71.6	74.0
68.7	73.2
70.4	72.4
69.7	72.0
69.7	71.4
66.2	71.5
61.2	62.6
61.8	63.5
58.6	61.6
64.7	65.5
63.3	65.1
68.1	68.8
64.3	67.2
73.5	74.3
73.7	74.2
74.2	74.5
75.0	75.5
68.8	69.7
63.0	63.8
60.7	67.2
71.6	73.6
70.8	72.5
66.5	67.9
61.8	64.1
64.0	66.1
70.8	71.5
70.1	71.0
70.3	71.9
74.0	79.0
66.6	67.3
68.8	76.8
72.2	78.9
	72.0
72.0	72.9
72.2	72.6

72.8	73.2
74.1	74.4
66.7	67.6
63.3	64.9
62.9	67.5
65.6	65.6
61.4	62.8
60.4	65.2
60.5	64.2
56.1	59.5
63.5	64.5
66.6	69.0
72.7	73.7
68.6	69.0
61.3	61.7
61.3	62.0
63.1	65.7
70.6	72.1
70.5	72.7
65.7	69.9
67.2	67.7
66.7	68.8
63.3	69.8
67.3	71.1
66.8	70.3

63	Auto Cente From Elk G	62.3	62.47	0	
29	Big Horn Bc From Lewis	64.4	66.40	2	
30	Big Horn Bc From Lagun	66.0	67.6	1.6	1
31	Big Horn Bc From Elk G	66.0	69.1	3.2	1
32	Big Horn Bc From Lotz	64.4	68.2	3.8	1
16	Bilby Road From Willa	64.8	59.66	-5	
46	Bilby Road From Frank	57.8	53.13	-5	
5	Bond Road From E. Stc	69.4	69.96	0.56	
6	Bond Road From Elk G	67.9	68.63	0.71	
7	Bond Road From Wate	64.9	66.17	1	
8	Bond Road From Brads	61.0	63.40	2	
35	Bradshaw F From Sheld	68.6	71.0	2.4	1
42	Bradshaw F From Elk G	65.7	70.2	4.5	1
22	Bruceville F From Big H	67.4	69.4	2.0	1
23	Bruceville F From Lagun	66.7	69.0	2.3	1
24	Bruceville F From Elk G	66.6	68.4	1.8	1
28	Bruceville F From Whit	63.2	68.5	5.3	1
47	Civic Cente From Bruce	58.1	59.57	1	
48	Civic Cente From Wym	58.7	60.5	1.8	1
4	Civic Cente From Big H	55.6	58.60	3.0	
65	E. Stockton From Mark	61.7	62.50	1	
66	E. Stockton From Bond	60.3	62.1	1.7	1
67	E. Stockton From Elk G	65.1	65.76	0.68	
68	E. Stockton From Elk G	61.3	64.2	3.0	1
1	Elk Grove E From Harb	70.5	71.28	0.82	
2	Elk Grove E From Frank	70.7	71.22	0.56	
3	Elk Grove E From Bruce	71.2	71.52	0.34	
12	Elk Grove E From Lagun	72.0	72.51	0.55	
13	Elk Grove E From E. Stc	65.8	66.65	0.85	
6	Elk Grove E From Elk G	60.0	60.8	0.8	1
8	Elk Grove E From Brads	57.7	64.2	6.5	1
34	Elk Grove F From Calvi	68.6	70.6	2.0	1
35	Elk Grove F From Sheld	67.8	69.4	1.7	1
36	Elk Grove F From Bond	63.5	64.90	1	
37	Elk Grove F From Valle	58.7	61.1	2.4	1
69	Emarld Vist From E. Stc	61.0	63.08	2	
22	Franklin Bo From Big H	67.8	68.53	0.71	
23	Franklin Bo From Lagun	67.1	67.98	0.91	
24	Franklin Bo From Elk G	67.3	68.84	1.54	
19	Grant Line From E. Stc	71.0	75.9	4.9	1
	Harbour Pc From Lagun	63.6	64.25	1	
	Kammerer From Bruce	65.8	73.8	8.0	1
	Kammerer From Prom	69.2	75.9	6.7	1
	Krammerer From Willa			#VALUE!	1
	Laguna Bot From Harb	76.1	77.06	0.96	
	Laguna Bot From Frank	69.2	69.61	0.44	

Laguna Bot From Bruce	69.8	70.21	0.45	
Laguna Bot From Big H	71.1	71.36	0.24	
Laguna Spr From Lagu	63.7	64.61	1	
Laguna Spr From Long	60.3	61.89	2	
Laguna Spr From Elk G	59.9	64.5	4.6	1
Lewis Stein From Sheld	62.6	62.58	0	
Lotz Parkw From Big H	58.4	59.80	1	
Lotz Parkw From Lagu	57.4	62.2	4.8	1
Mosher Ro From Wate	57.5	61.2	3.7	1
Poppy Ridg From Bruce	53.1	56.5	3.4	1
Power Inn From Aubu	60.5	61.47	1	
Promenade From Kyles	63.5	65.98	2	
Sheldon Rc From Lewis	69.7	70.71	0.99	
Sheldon Rc From Elk G	65.6	66.01	0.45	
W. Stockto From Lewis	58.3	58.7	0.4	1
W. Stockto From Dunis	58.3	59.02	1	
W. Stockto From Whit	60.1	62.70	2.6	
Waterman From Sheld	67.6	69.06	1.49	
Waterman From Bond	67.5	69.6	2.1	1
Waterman From Mosh	62.7	66.8	4.1	1
Whitelock From Frank	64.2	64.68	1	
Whitelock From Bruce	63.7	65.83	2	
Whitelock From Big H	60.3	66.8	6.5	1
Willard Par From Whit	64.3	68.1	3.8	1
Willard Par From Bloss	63.8	67.2	3.5	1

Citation # Citations

- | | | |
|----|--|--|
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| 2 | Caltrans Technical Noise Supplement. 2009 (November). Equation (5-26), Pg 5-60. | Caltrans Technical Noise Supplement. 2013 (September). Equation (4-5), Pg 4-17. |
| 3 | Caltrans Technical Noise Supplement. 2009 (November). Equation (2-16), Pg 2-32. | FHWA 2004 TNM Version 2.5 |
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| 5 | Caltrans Technical Noise Supplement. 2009 (November). Equation (2-26), Pg 2-55, 56. | Caltrans Technical Noise Supplement. 2013 (September). Equation (2-23), Pg 2-55. |
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| 7 | Caltrans Technical Noise Supplement. 2009 (November). Pg 2-53. | Caltrans Technical Noise Supplement. 2013 (September). Pg 2-57. |
| 8 | Caltrans Technical Noise Supplement. 2009 (November). Equation (5-7), Pg 5-45. | FHWA 2004 TNM Version 2.5 |
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| 15 | Federal Highway Administration Traffic Noise Model Technical Manual. Report No. FHWA-PD-96-010. 1998 (January). Equation (18), Pg 69 | |

References

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Road	Segment	GP Build Out
Big Horn Boulevard	From Lotz Parkway to Whitelock Parkway	72.1
Bilby Road	From Willard Parkway to Bruceville Road	71.9
Bilby Road	From Franklin Boulevard to Willard Parkway	64.5
Bond Road	From Elk Grove Florin Road to Waterman Road	74.1
Bond Road	From Waterman Road to Bradshaw Road	72.9
Bradshaw Road	From Sheldon Road to Bond Road	76.3
Bradshaw Road	From Elk Grove Boulevard to Grant Line Road	76
Bruceville Road	From Big Horn Boulevard to Laguna Boulevard	70.8
Bruceville Road	From Laguna Boulevard to Elk Grove Boulevard	71
Bruceville Road	From Elk Grove Boulevard to Whitelock Parkway	71.3
Bruceville Road	From Whitelock Parkway to Bilby Road	71.2
E. Stockton Boulevard	From Elk Grove Florin Road to Grant Line Road	69.7
Elk Grove Boulevard	From Franklin Boulevard to Bruceville Road	73
Elk Grove Boulevard	From Bruceville Road to Big Horn Boulevard	74.6
Elk Grove Boulevard	From E. Stockton Boulevard to Elk Grove Florin Road	71.3
Elk Grove Boulevard	From Elk Grove Florin Road to Waterman Road	65.2
Elk Grove Boulevard	From Bradshaw Road to Grant Line Road	62.4
Elk Grove Florin Road	From Calvine Road to Sheldon Road	74.3
Elk Grove Florin Road	From Sheldon Road to Bond Road	72.1
Elk Grove Florin Road	From Bond Road to Elk Grove Boulevard	70.8
Franklin Boulevard	From Big Horn Boulevard to Laguna Boulevard	71.4
Franklin Boulevard	From Laguna Boulevard to Elk Grove Boulevard	70.9
Franklin Boulevard	From Elk Grove Boulevard to Whitelock Parkway	68.8
Grant Line Road	From E. Stockton Boulevard to Waterman Road	77.5
Kammerer Road	From Promenade Parkway to SR 99	77.4
Krammerer Road Extension	From Willard Parkway to Bruceville Road	74.8
Laguna Boulevard	From Franklin Boulevard to Bruceville Road	71
Laguna Boulevard	From Bruceville Road to Big Horn Boulevard	70.4
Laguna Boulevard	From Big Horn Boulevard to Laguna Springs Drive	73.2
Lotz Parkway	From Big Horn Boulevard to Laguna Springs Drive	65.7
Lotz Parkway	From Laguna Springs Drive to Whitelock Parkway	67.2
Mosher Road	From Waterman Road to Grant Line Road	67.8
Sheldon Road	From Lewis Stein Road to SR 99	72.6
Sheldon Road	From Elk Grove Florin Road to Waterman Road	68.8
Waterman Road	From Sheldon Road to Bond Road	69.4
Waterman Road	From Bond Road to Elk Grove Boulevard	73.8
Whitelock Parkway	From Franklin Boulevard to Bruceville Road	64.9
Whitelock Parkway	From Bruceville Road to Big Horn Boulevard	63.9
Whitelock Parkway	From Big Horn Boulevard to Lotz Parkway	67

Plus Project	Difference GP Plus Project
68.2	-3.9
59.66	-12.2
53.13	-11.4
68.63	-5.5
66.17	-6.7
71.0	-5.3
70.2	-5.8
69.4	-1.4
69.0	-2.0
68.4	-2.9
68.5	-2.7
64.2	-5.5
71.22	-1.8
71.52	-3.1
66.65	-4.6
60.8	-4.4
64.2	1.8
70.6	-3.7
69.4	-2.7
64.90	-5.9
68.53	-2.9
67.98	-2.9
68.84	0.0
75.9	-1.6
75.9	-1.5
	#VALUE!
69.61	-1.4
70.21	-0.2
71.36	-1.8
59.80	-5.9
62.2	-5.0
61.2	-6.6
70.71	-1.9
66.01	-2.8
69.06	-0.3
69.6	-4.2
64.68	-0.2
65.83	1.9
66.8	-0.2

Road	Segment	Existing 2019
Big Horn Boulevard	From Elk Grove Boulevard to Civic Center Drive	66.0
Big Horn Boulevard	From Lotz Parkway to Whitelock Parkway	64.4
Bilby Road	From Willard Parkway to Bruceville Road	64.8
Bilby Road	From Franklin Boulevard to Willard Parkway	57.8
Bond Road	From Elk Grove Florin Road to Waterman Road	67.9
Bond Road	From Waterman Road to Bradshaw Road	64.9
Bond Road	From Bradshaw Road to Grant Line Road	61.0
Bradshaw Road	From Sheldon Road to Bond Road	68.6
Bradshaw Road	From Elk Grove Boulevard to Grant Line Road	65.7
Bruceville Road	From Big Horn Boulevard to Laguna Boulevard	67.4
Bruceville Road	From Laguna Boulevard to Elk Grove Boulevard	66.7
Bruceville Road	From Elk Grove Boulevard to Whitelock Parkway	66.6
Bruceville Road	From Whitelock Parkway to Bilby Road	63.2
E. Stockton Boulevard	From Elk Grove Florin Road to Grant Line Road	61.3
Elk Grove Boulevard	From Harbour Point Drive to Franklin Boulevard	70.5
Elk Grove Boulevard	From Franklin Boulevard to Bruceville Road	70.7
Elk Grove Boulevard	From Bruceville Road to Big Horn Boulevard	71.2
Elk Grove Boulevard	From Laguna Springs Drive to SR 99	72.0
Elk Grove Boulevard	From E. Stockton Boulevard to Elk Grove Florin Road	65.8
Elk Grove Boulevard	From Elk Grove Florin Road to Waterman Road	60.0
Elk Grove Boulevard	From Bradshaw Road to Grant Line Road	57.7
Elk Grove Florin Road	From Calvine Road to Sheldon Road	68.6
Elk Grove Florin Road	From Sheldon Road to Bond Road	67.8
Elk Grove Florin Road	From Bond Road to Elk Grove Boulevard	63.5
Franklin Boulevard	From Big Horn Boulevard to Laguna Boulevard	67.8
Franklin Boulevard	From Laguna Boulevard to Elk Grove Boulevard	67.1
Franklin Boulevard	From Elk Grove Boulevard to Whitelock Parkway	67.3
Grant Line Road	From E. Stockton Boulevard to Waterman Road	71.0
Kammerer Road	From Promenade Parkway to SR 99	69.2
Krammerer Road Extension	From Willard Parkway to Bruceville Road	
Laguna Boulevard	From Franklin Boulevard to Bruceville Road	69.2
Laguna Boulevard	From Bruceville Road to Big Horn Boulevard	69.8
Laguna Boulevard	From Big Horn Boulevard to Laguna Springs Drive	71.1
Lotz Parkway	From Big Horn Boulevard to Laguna Springs Drive	58.4
Lotz Parkway	From Laguna Springs Drive to Whitelock Parkway	57.4
Mosher Road	From Waterman Road to Grant Line Road	57.5
Sheldon Road	From Lewis Stein Road to SR 99	69.7
Sheldon Road	From Elk Grove Florin Road to Waterman Road	65.6
Waterman Road	From Sheldon Road to Bond Road	67.6
Waterman Road	From Bond Road to Elk Grove Boulevard	67.5
Whitelock Parkway	From Franklin Boulevard to Bruceville Road	64.2
Whitelock Parkway	From Bruceville Road to Big Horn Boulevard	63.7
Whitelock Parkway	From Big Horn Boulevard to Lotz Parkway	60.3
Willard Parkway	From Whitelock Parkway to Blossom Ridge Drive	64.3

GP Build Out

