

**APPENDIX O**

**PROJECT ALTERNATIVES  
ROADWAY NOISE CALCULATION WORKSHEETS**



**OFF-SITE TRAFFIC NOISE LEVELS - REDUCED DENSITY ALTERNATIVE**
**Existing Baseline / Existing with Alternative**

Roadway	Existing Baseline	Existing with Project	% Alternative [a]	Project Trips	Alternative Trips	Existing with Alternative	Existing Noise Level	Existing w Alternative Noise Level	Impact	Significant? (Yes/No)
1	1,156	1,187	0.73	31	23	1,179	67.2	67.3	0.1	No
2	1,675	1,706	0.73	31	23	1,698	69.9	70.0	0.1	No
3	2,213	2,342	0.73	129	94	2,307	70.4	70.6	0.2	No
4	1,726	1,887	0.73	161	118	1,844	69.3	69.6	0.3	No
5	1,637	1,707	0.73	70	51	1,688	69.1	69.2	0.1	No
6	3,228	3,294	0.73	66	48	3,276	72.5	72.5	0.1	No
7	3,132	3,195	0.73	63	46	3,178	71.9	72.0	0.1	No
8	2,701	2,747	0.73	46	34	2,735	72.0	72.0	0.1	No
9	2,421	2,437	0.73	16	12	2,433	71.5	71.5	0.0	No
10	2,428	2,734	0.73	306	223	2,651	69.5	69.9	0.4	No
11	1,947	1,949	0.73	2	1	1,948	69.6	69.6	0.0	No
12	2,344	2,536	0.73	192	140	2,484	69.0	69.3	0.3	No
13	2,359	2,385	0.73	26	19	2,378	66.6	66.7	0.0	No
14	2,513	2,586	0.73	73	53	2,566	66.9	67.0	0.1	No
15	2,482	2,520	0.73	38	28	2,510	70.9	71.0	0.0	No
16	72	155	0.73	83	61	133	54.4	57.1	2.7	No
17	60	223	0.73	163	119	179	56.7	61.5	4.7	No
18	63	327	0.73	264	193	256	56.9	63.0	6.1	Yes

**Future Baseline / Future with Alternative**

Roadway	Future Baseline	Future with Proposed Project	% Alternative [a]	Project Trips	Alternative Trips	Future with Alternative	Future Baseline Noise Level	Future w Alternative Noise Level	Impact	Significant? (Yes/No)
1	1,259	1,290	0.73	31	23	1,282	67.6	67.6	0.1	No
2	1,814	1,845	0.73	31	23	1,837	70.3	70.3	0.1	No
3	2,408	2,537	0.73	129	94	2,502	70.8	70.9	0.2	No
4	1,887	1,887	0.73	0	0	1,887	69.7	69.7	0.0	No
5	1,791	1,861	0.73	70	51	1,842	69.5	69.6	0.1	No
6	3,497	3,563	0.73	66	48	3,545	72.8	72.9	0.1	No
7	3,401	3,464	0.73	63	46	3,447	72.3	72.3	0.1	No
8	2,937	2,983	0.73	46	34	2,971	72.3	72.4	0.0	No
9	2,680	2,696	0.73	16	12	2,692	71.9	72.0	0.0	No
10	837	849	0.73	12	9	846	64.9	64.9	0.0	No
11	2,109	2,111	0.73	2	1	2,110	69.9	69.9	0.0	No
12	2,536	2,536	0.73	0	0	2,536	69.3	69.3	0.0	No
13	2,625	2,651	0.73	26	19	2,644	67.1	67.1	0.0	No
14	2,799	2,872	0.73	73	53	2,852	67.4	67.4	0.1	No
15	2,845	2,883	0.73	38	28	2,873	71.5	71.5	0.0	No
16	72	155	0.73	83	61	133	54.5	57.1	2.7	No
17	60	223	0.73	163	119	179	56.7	61.5	4.7	No
18	63	327	0.73	264	193	256	56.9	63.0	6.1	Yes

[a] This percentage calculated by taking ratio of Reduced Density Alternative trips (1,863 trips) divided by Project trips (2,551) = 73%

**OFF-SITE TRAFFIC NOISE LEVELS - REDUCED DENSITY ALTERNATIVE**

**Project Name:** 2800 Casitas Lofts Project  
**Analyst:** Elise Lorenzana  
**Date:** 3/7/18

**Background Information**

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.  
 Analysis Scenario(s): (1)Existing, (2)Existing with Project, (3)Future without project, and (4)Future with Project  
 Source of Traffic Volumes: The Mobility Group, December 15, 2017.  
 Community Noise Descriptor:  $L_{dn}$ : \_\_\_\_\_ CNEL:  X

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%

**Traffic Noise Levels**

Analysis Condition		Lanes	Median Width	Peak Hour Volume	ADT Volume <sup>1</sup>	Design Speed (mph)	Dist. from Center to Receptor <sup>2</sup>	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix		Peak Hour $L_{eq}$ dB(A)	24-Hour $L_{eq}$ dB(A) CNEL
Roadway Name	Land Use									Medium Trucks	Heavy Trucks		
<b>Existing (2016) Traffic Volumes</b>													
1 Fletcher Drive	between Ave 34 and Estara Ave	2	12	1,156	11,560	35	35	0	0	1.8%	0.7%	68.0	67.2
2 Fletcher Drive	between Estara Avenue and San Fernando Road	4	12	1,675	16,750	35	35	0	0	1.8%	0.7%	70.7	69.9
3 Fletcher Drive	between San Fernando Road and La Clede Avenue	4	0	2,213	22,130	35	35	0	0	1.8%	0.7%	71.2	70.4
4 Fletcher Drive	between La Clede Avenue and Larga Avenue	4	0	1,726	17,260	35	35	0	0	1.8%	0.7%	70.1	69.3
5 Fletcher Drive	between Larga Avenue and SR-2 SB Off-Ramp	4	0	1,637	16,370	35	35	0	0	1.8%	0.7%	69.9	69.1
6 Fletcher Drive	between SR-2 SB Off-Ramp and Ripple Street	4	8	3,228	32,280	35	35	0	0	1.8%	0.7%	73.2	72.5
7 Fletcher Drive	between Ripple Street and Riverside Drive	4	0	3,132	31,320	35	35	0	0	1.8%	0.7%	72.7	71.9
8 Fletcher Drive	between Riverside Drive and Glendale Blvd.	4	12	2,701	27,010	35	35	0	0	1.8%	0.7%	72.7	72.0
9 Glendale Blvd.	between Fletcher Dr. and Silver Lake Ave	4	12	2,421	24,210	35	35	0	0	1.8%	0.7%	72.3	71.5
10 Glendale Blvd	between Lakewood Ave and Fletcher Dr.	4	0	2,428	24,280	30	35	0	0	1.8%	0.7%	70.3	69.5
11 Riverside Drive	between Glendale Blvd. and Fletcher Dr	4	12	1,947	19,470	35	40	0	0	1.8%	0.7%	70.3	69.6
12 Riverside Drive	Between Fletcher Dr and Gilroy	4	12	2,344	23,440	35	50	0	0	1.8%	0.7%	69.8	69.0
13 San Fernando Road	Between Glendale Ave and Fletcher Ave	4	12	2,359	23,590	25	45	0	0	1.8%	0.7%	67.4	66.6
14 San Fernando Road	Between Fletcher Dr and Glendale Fwy.	5	0	2,513	25,130	25	45	0	0	1.8%	0.7%	67.7	66.9
15 San Fernando Road	Between Glendale Fwy and Edward Fwy	4	0	2,482	24,820	35	35	0	0	1.8%	0.7%	71.7	70.9
16 Carillon Street	Between Le Clede Ave and Casitas Ave	2	0	72	718	25	20	0	0	1.8%	0.7%	55.2	54.4
17 Larga Ave	Between Fletcher Dr and Carillon St	2	0	60	600	35	20	0	0	1.8%	0.7%	57.5	56.7
18 Le Clede Ave	Between Fletcher Dr and Carillon St	2	0	63	634	35	20	0	0	1.8%	0.7%	57.7	56.9

**OFF-SITE TRAFFIC NOISE LEVELS - REDUCED DENSITY ALTERNATIVE**

**Project Name:** 2800 Casitas Lofts Project  
**Analyst:** Elise Lorenzana  
**Date:** 3/7/18

**Background Information**

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.  
 Analysis Scenario(s): (1)Existing, (2)Existing with Project, (3)Future without project, and (4)Future with Project  
 Source of Traffic Volumes: The Mobility Group, December 15, 2017.  
 Community Noise Descriptor:  $L_{dn}$ : \_\_\_\_\_ CNEL:  X

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%

**Traffic Noise Levels**

Analysis Condition		Lanes	Median Width	Peak Hour Volume	ADT Volume <sup>1</sup>	Design Speed (mph)	Dist. from Center to Receptor <sup>2</sup>	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix		Peak Hour dB(A) $L_{eq}$	24-Hour dB(A) CNEL
Roadway Name	Roadway Segment									Land Use	Medium Trucks		
<b>Existing with Alternative (2016) Traffic Volumes</b>													
1	Fletcher Drive												
	between Ave 34 and Estara Ave	2	12	1,179	11,786	35	35	0	0	1.8%	0.7%	68.0	67.3
2	Fletcher Drive												
	between Estara Avenue and San Fernando Road	4	12	1,698	16,976	35	35	0	0	1.8%	0.7%	70.7	70.0
3	Fletcher Drive												
	between San Fernando Road and La Clede Avenue	4	0	2,307	23,072	35	35	0	0	1.8%	0.7%	71.3	70.6
4	Fletcher Drive												
	between La Clede Avenue and Larga Avenue	4	0	1,844	18,435	35	35	0	0	1.8%	0.7%	70.4	69.6
5	Fletcher Drive												
	between Larga Avenue and SR-2 SB Off-Ramp	4	0	1,688	16,881	35	35	0	0	1.8%	0.7%	70.0	69.2
6	Fletcher Drive												
	between SR-2 SB Off-Ramp and Ripple Street	4	8	3,276	32,762	35	35	0	0	1.8%	0.7%	73.3	72.5
7	Fletcher Drive												
	between Ripple Street and Riverside Drive	4	0	3,178	31,780	35	35	0	0	1.8%	0.7%	72.7	72.0
8	Fletcher Drive												
	between Riverside Drive and Glendale Blvd.	4	12	2,735	27,346	35	35	0	0	1.8%	0.7%	72.8	72.0
9	Glendale Blvd.												
	between Fletcher Dr. and Lakewood Ave	4	12	2,433	24,327	35	35	0	0	1.8%	0.7%	72.3	71.5
10	Glendale Blvd												
	between Lakewood Ave and Fletcher Dr.	4	0	2,651	26,514	30	35	0	0	1.8%	0.7%	70.7	69.9
11	Riverside Drive												
	between Glendale Blvd. and Fletcher Dr	4	12	1,948	19,485	35	40	0	0	1.8%	0.7%	70.3	69.6
12	Riverside Drive												
	Between Fletcher Dr and Gilroy	4	12	2,484	24,842	35	50	0	0	1.8%	0.7%	70.0	69.3
13	San Fernando Road												
	Between Glendale Ave and Fletcher Ave	4	12	2,378	23,780	25	45	0	0	1.8%	0.7%	67.4	66.7
14	San Fernando Road												
	Between Fletcher Dr and Glendale Fwy.	5	0	2,566	25,663	25	45	0	0	1.8%	0.7%	67.8	67.0
15	San Fernando Road												
	Between Glendaale Fwy and Edward Way	4	0	2,510	25,097	35	35	0	0	1.8%	0.7%	71.7	71.0
16	Carillon Street												
	Between Le Clede Ave and Casitas Ave	2	0	133	1,326	25	20	0	0	1.8%	0.7%	57.9	57.1
17	Larga Ave												
	Between Fletcher Dr and Carillon St	2	0	179	1,790	35	20	0	0	1.8%	0.7%	62.2	61.5
18	Le Clede Ave												
	Between Fletcher Dr and Carillon St	2	0	256	2,557	35	20	0	0	1.8%	0.7%	63.8	63.0

**OFF-SITE TRAFFIC NOISE LEVELS - REDUCED DENSITY ALTERNATIVE**

**Project Name:** 2800 Casitas Lofts Project  
**Analyst:** Elise Lorenzana  
**Date:** 3/7/18

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 Community Noise Descriptor:  $L_{dn}$ : \_\_\_\_\_ CNEL:  X

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%

**Traffic Noise Levels**

Analysis Condition		Lanes	Median Width	Peak Hour Volume	ADT Volume <sup>1</sup>	Design Speed (mph)	Dist. from Center to Receptor <sup>2</sup>	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix		Peak Hour dB(A) $L_{eq}$	24-Hour dB(A) CNEL
Roadway Name	Roadway Segment									Medium Trucks	Heavy Trucks		

**Future without Project (2023) Traffic Volumes**

1	Fletcher Drive												
	between Ave 34 and Estara Ave	2	12	1,259	12,590	35	35	0	0	1.8%	0.7%	68.3	67.6
2	Fletcher Drive												
	between Estara Avenue and San Fernando Road	4	12	1,814	18,140	35	35	0	0	1.8%	0.7%	71.0	70.3
3	Fletcher Drive												
	between San Fernando Road and La Clede Avenue	4	0	2,408	24,080	35	35	0	0	1.8%	0.7%	71.5	70.8
4	Fletcher Drive												
	between La Clede Avenue and Larga Avenue	4	0	1,887	18,870	35	35	0	0	1.8%	0.7%	70.5	69.7
5	Fletcher Drive												
	between Larga Avenue and SR-2 SB Off-Ramp	4	0	1,791	17,910	35	35	0	0	1.8%	0.7%	70.2	69.5
6	Fletcher Drive												
	between SR-2 SB Off-Ramp and Ripple Street	4	8	3,497	34,970	35	35	0	0	1.8%	0.7%	73.6	72.8
7	Fletcher Drive												
	between Ripple Street and Riverside Drive	4	0	3,401	34,010	35	35	0	0	1.8%	0.7%	73.0	72.3
8	Fletcher Drive												
	between Riverside Drive and Glendale Blvd.	4	12	2,937	29,370	35	35	0	0	1.8%	0.7%	73.1	72.3
9	Glendale Blvd.												
	between Fletcher Dr. and Lakewood Ave	4	12	2,680	26,800	35	35	0	0	1.8%	0.7%	72.7	71.9
10	Glendale Blvd												
	between Lakewood Ave and Fletcher Dr.	4	0	837	8,370	30	35	0	0	1.8%	0.7%	65.7	64.9
11	Riverside Drive												
	between Glendale Blvd. and Fletcher Dr	4	12	2,109	21,090	35	40	0	0	1.8%	0.7%	70.7	69.9
12	Riverside Drive												
	Between Fletcher Dr and Gilroy	4	12	2,536	25,360	35	50	0	0	1.8%	0.7%	70.1	69.3
13	San Fernando Road												
	Between Glendale Ave and Fletcher Ave	4	12	2,625	26,250	25	45	0	0	1.8%	0.7%	67.9	67.1
14	San Fernando Road												
	Between Fletcher Dr and Glendale Fwy.	5	0	2,799	27,990	25	45	0	0	1.8%	0.7%	68.1	67.4
15	San Fernando Road												
	Between Glendaale Fwy and Edward Way	4	0	2,845	28,450	35	35	0	0	1.8%	0.7%	72.3	71.5
16	Carillon Street												
	Between Le Clede Ave and Casitas Ave	2	0	72	720	25	20	0	0	1.8%	0.7%	55.2	54.5
17	Larga Ave												
	Between Fletcher Dr and Carillon St	2	0	60	600	35	20	0	0	1.8%	0.7%	57.5	56.7
18	Le Clede Ave												
	Between Fletcher Dr and Carillon St	2	0	63	630	35	20	0	0	1.8%	0.7%	57.7	56.9

**OFF-SITE TRAFFIC NOISE LEVELS - REDUCED DENSITY ALTERNATIVE**

**Project Name:** 2800 Casitas Lofts Project  
**Analyst:** Elise Lorenzana  
**Date:** 3/7/18

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 Community Noise Descriptor:  $L_{dn}$ : \_\_\_\_\_ CNEL:  X

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
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Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

**Traffic Noise Levels**

Analysis Condition		Lanes	Median Width	Peak Hour Volume	ADT Volume <sup>1</sup>	Design Speed (mph)	Dist. from Center to Receptor <sup>2</sup>	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix		Peak Hour dB(A) $L_{eq}$	24-Hour dB(A) CNEL
Roadway Name	Roadway Segment									Land Use	Medium Trucks		
<b>Future with Alternative (2023) Traffic Volumes</b>													
1	Fletcher Drive												
	between Ave 34 and Estara Ave	2	12	1,282	12,816	35	35	0	0	1.8%	0.7%	68.4	67.6
2	Fletcher Drive												
	between Estara Avenue and San Fernando Road	4	12	1,837	18,366	35	35	0	0	1.8%	0.7%	71.1	70.3
3	Fletcher Drive												
	between San Fernando Road and La Clede Avenue	4	0	2,502	25,022	35	35	0	0	1.8%	0.7%	71.7	70.9
4	Fletcher Drive												
	between La Clede Avenue and Larga Avenue	4	0	1,887	18,870	35	35	0	0	1.8%	0.7%	70.5	69.7
5	Fletcher Drive												
	between Larga Avenue and SR-2 SB Off-Ramp	4	0	1,842	18,421	35	35	0	0	1.8%	0.7%	70.4	69.6
6	Fletcher Drive												
	between SR-2 SB Off-Ramp and Ripple Street	4	8	3,545	35,452	35	35	0	0	1.8%	0.7%	73.6	72.9
7	Fletcher Drive												
	between Ripple Street and Riverside Drive	4	0	3,447	34,470	35	35	0	0	1.8%	0.7%	73.1	72.3
8	Fletcher Drive												
	between Riverside Drive and Glendale Blvd.	4	12	2,971	29,706	35	35	0	0	1.8%	0.7%	73.2	72.4
9	Glendale Blvd.												
	between Fletcher Dr. and Lakewood Ave	4	12	2,692	26,917	35	35	0	0	1.8%	0.7%	72.7	72.0
10	Glendale Blvd												
	between Lakewood Ave and Fletcher Dr.	4	0	846	8,458	30	35	0	0	1.8%	0.7%	65.7	64.9
11	Riverside Drive												
	between Glendale Blvd. and Fletcher Dr	4	12	2,110	21,105	35	40	0	0	1.8%	0.7%	70.7	69.9
12	Riverside Drive												
	Between Fletcher Dr and Gilroy	4	12	2,536	25,360	35	50	0	0	1.8%	0.7%	70.1	69.3
13	San Fernando Road												
	Between Glendale Ave and Fletcher Ave	4	12	2,644	26,440	25	45	0	0	1.8%	0.7%	67.9	67.1
14	San Fernando Road												
	Between Fletcher Dr and Glendale Fwy.	5	0	2,852	28,523	25	45	0	0	1.8%	0.7%	68.2	67.4
15	San Fernando Road												
	Between Glendaale Fwy and Edward Way	4	0	2,873	28,727	35	35	0	0	1.8%	0.7%	72.3	71.5
16	Carillon Street												
	Between Le Clede Ave and Casitas Ave	2	0	133	1,326	25	20	0	0	1.8%	0.7%	57.9	57.1
17	Larga Ave												
	Between Fletcher Dr and Carillon St	2	0	179	1,790	35	20	0	0	1.8%	0.7%	62.2	61.5
18	Le Clede Ave												
	Between Fletcher Dr and Carillon St	2	0	256	2,557	35	20	0	0	1.8%	0.7%	63.8	63.0

**OFF-SITE TRAFFIC NOISE LEVELS - COMMERCIAL OFFICE ALTERNATIVE**

**Existing Baseline / Existing with Alternative**

Roadway	Existing Baseline	Existing with Project	% Alternative [a]	Project Trips	Alternative Trips	Existing with Alternative	Existing Noise Level	Existing w Alternative Noise Level	Impact	Significant? (Yes/No)
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2	1,675	1,706	1.357	31	42	1,717	69.9	70.0	0.1	No
3	2,213	2,342	1.357	129	175	2,388	70.4	70.7	0.3	No
4	1,726	1,887	1.357	161	218	1,944	69.3	69.8	0.5	No
5	1,637	1,707	1.357	70	95	1,732	69.1	69.3	0.2	No
6	3,228	3,294	1.357	66	90	3,318	72.5	72.6	0.1	No
7	3,132	3,195	1.357	63	85	3,217	71.9	72.0	0.1	No
8	2,701	2,747	1.357	46	62	2,763	72.0	72.1	0.1	No
9	2,421	2,437	1.357	16	22	2,443	71.5	71.5	0.0	No
10	2,428	2,734	1.357	306	415	2,843	69.5	70.2	0.7	No
11	1,947	1,949	1.357	2	3	1,950	69.6	69.6	0.0	No
12	2,344	2,536	1.357	192	261	2,605	69.0	69.5	0.5	No
13	2,359	2,385	1.357	26	35	2,394	66.6	66.7	0.1	No
14	2,513	2,586	1.357	73	99	2,612	66.9	67.1	0.2	No
15	2,482	2,520	1.357	38	52	2,534	70.9	71.0	0.1	No
16	72	155	1.357	83	113	185	54.4	58.6	4.1	No
17	60	223	1.357	163	221	281	56.7	63.4	6.7	Yes
18	63	327	1.357	264	358	421	56.9	65.2	8.2	Yes

**Future Baseline / Future with Alternative**

Roadway	Future Baseline	Future with Proposed Project	% Alternative [a]	Project Trips	Alternative Trips	Future with Alternative Trips	Future Baseline Noise Level	Future w Alternative Noise Level	Impact	Significant? (Yes/No)
1	1,259	1,290	1.357	31	42	1,301	67.6	67.7	0.1	No
2	1,814	1,845	1.357	31	42	1,856	70.3	70.4	0.1	No
3	2,408	2,537	1.357	129	175	2,583	70.8	71.1	0.3	No
4	1,887	1,887	1.357	0	0	1,887	69.7	69.7	0.0	No
5	1,791	1,861	1.357	70	95	1,886	69.5	69.7	0.2	No
6	3,497	3,563	1.357	66	90	3,587	72.8	72.9	0.1	No
7	3,401	3,464	1.357	63	85	3,486	72.3	72.4	0.1	No
8	2,937	2,983	1.357	46	62	2,999	72.3	72.4	0.1	No
9	2,680	2,696	1.357	16	22	2,702	71.9	72.0	0.0	No
10	837	849	1.357	12	16	853	64.9	65.0	0.1	No
11	2,109	2,111	1.357	2	3	2,112	69.9	69.9	0.0	No
12	2,536	2,536	1.357	0	0	2,536	69.3	69.3	0.0	No
13	2,625	2,651	1.357	26	35	2,660	67.1	67.1	0.1	No
14	2,799	2,872	1.357	73	99	2,898	67.4	67.5	0.2	No
15	2,845	2,883	1.357	38	52	2,897	71.5	71.6	0.1	No
16	72	155	1.357	83	113	185	54.5	58.6	4.1	No
17	60	223	1.357	163	221	281	56.7	63.4	6.7	Yes
18	63	327	1.357	264	358	421	56.9	65.2	8.3	Yes

[a] This percentage calculated by taking ratio of Commercial Office Alternative trips (3,461 trips) divided by Project trips (2,551) = 136%



**OFF-SITE TRAFFIC NOISE LEVELS - COMMERCIAL OFFICE ALTERNATIVE**

**Project Name:** 2800 Casitas Lofts Project  
**Analyst:** Elise Lorenzana  
**Date:** 3/7/18

**Background Information**

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.  
 Analysis Scenario(s): (1)Existing, (2)Existing with Project, (3)Future without project, and (4)Future with Project  
 Source of Traffic Volumes: The Mobility Group, December 15, 2017.  
 Community Noise Descriptor:  $L_{dn}$ : \_\_\_\_\_ CNEL:  X

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%

**Traffic Noise Levels**

Analysis Condition		Lanes	Median Width	Peak Hour Volume	ADT Volume <sup>1</sup>	Design Speed (mph)	Dist. from Center to Receptor <sup>2</sup>	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix		Peak Hour $L_{eq}$ dB(A)	24-Hour $L_{eq}$ dB(A) CNEL
Roadway Name	Land Use									Medium Trucks	Heavy Trucks		
<b>Existing (2016) Traffic Volumes</b>													
1	Fletcher Drive between Ave 34 and Estara Ave	2	12	1,156	11,560	35	35	0	0	1.8%	0.7%	68.0	67.2
2	Fletcher Drive between Estara Avenue and San Fernando Road	4	12	1,675	16,750	35	35	0	0	1.8%	0.7%	70.7	69.9
3	Fletcher Drive between San Fernando Road and La Clede Avenue	4	0	2,213	22,130	35	35	0	0	1.8%	0.7%	71.2	70.4
4	Fletcher Drive between La Clede Avenue and Larga Avenue	4	0	1,726	17,260	35	35	0	0	1.8%	0.7%	70.1	69.3
5	Fletcher Drive between Larga Avenue and SR-2 SB Off-Ramp	4	0	1,637	16,370	35	35	0	0	1.8%	0.7%	69.9	69.1
6	Fletcher Drive between SR-2 SB Off-Ramp and Ripple Street	4	8	3,228	32,280	35	35	0	0	1.8%	0.7%	73.2	72.5
7	Fletcher Drive between Ripple Street and Riverside Drive	4	0	3,132	31,320	35	35	0	0	1.8%	0.7%	72.7	71.9
8	Fletcher Drive between Riverside Drive and Glendale Blvd.	4	12	2,701	27,010	35	35	0	0	1.8%	0.7%	72.7	72.0
9	Glendale Blvd. between Fletcher Dr. and Silver Lake Ave	4	12	2,421	24,210	35	35	0	0	1.8%	0.7%	72.3	71.5
10	Glendale Blvd. between Lakewood Ave and Fletcher Dr.	4	0	2,428	24,280	30	35	0	0	1.8%	0.7%	70.3	69.5
11	Riverside Drive between Glendale Blvd. and Fletcher Dr	4	12	1,947	19,470	35	40	0	0	1.8%	0.7%	70.3	69.6
12	Riverside Drive Between Fletcher Dr and Gilroy	4	12	2,344	23,440	35	50	0	0	1.8%	0.7%	69.8	69.0
13	San Fernando Road Between Glendale Ave and Fletcher Ave	4	12	2,359	23,590	25	45	0	0	1.8%	0.7%	67.4	66.6
14	San Fernando Road Between Fletcher Dr and Glendale Fwy.	5	0	2,513	25,130	25	45	0	0	1.8%	0.7%	67.7	66.9
15	San Fernando Road Between Glendale Fwy and Edward Fwy.	4	0	2,482	24,820	35	35	0	0	1.8%	0.7%	71.7	70.9
16	Carillon Street Between Le Clede Ave and Casitas Ave	2	0	72	718	25	20	0	0	1.8%	0.7%	55.2	54.4
17	Larga Ave Between Fletcher Dr and Carillon St	2	0	60	600	35	20	0	0	1.8%	0.7%	57.5	56.7
18	Le Clede Ave Between Fletcher Dr and Carillon St	2	0	63	634	35	20	0	0	1.8%	0.7%	57.7	56.9

**OFF-SITE TRAFFIC NOISE LEVELS - COMMERCIAL OFFICE ALTERNATIVE**

**Project Name:** 2800 Casitas Lofts Project  
**Analyst:** Elise Lorenzana  
**Date:** 3/7/18

**Background Information**

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.  
 Analysis Scenario(s): (1)Existing, (2)Existing with Project, (3)Future without project, and (4)Future with Project  
 Source of Traffic Volumes: The Mobility Group, December 15, 2017.  
 Community Noise Descriptor:  $L_{dn}$ : \_\_\_\_\_ CNEL:  X

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%

**Traffic Noise Levels**

Analysis Condition		Lanes	Median Width	Peak Hour Volume	ADT Volume <sup>1</sup>	Design Speed (mph)	Dist. from Center to Receptor <sup>2</sup>	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix		Peak Hour $L_{eq}$ dB(A)	24-Hour $L_{eq}$ dB(A) CNEL
Roadway Name	Roadway Segment									Land Use	Medium Trucks		
<b>Existing with Alternative (2016) Traffic Volumes</b>													
1	Fletcher Drive												
	between Ave 34 and Estara Ave	2	12	1,198	11,981	35	35	0	0	1.8%	0.7%	68.1	67.3
2	Fletcher Drive												
	between Estara Avenue and San Fernando Road	4	12	1,717	17,171	35	35	0	0	1.8%	0.7%	70.8	70.0
3	Fletcher Drive												
	between San Fernando Road and La Clede Avenue	4	0	2,388	23,881	35	35	0	0	1.8%	0.7%	71.5	70.7
4	Fletcher Drive												
	between La Clede Avenue and Larga Avenue	4	0	1,944	19,445	35	35	0	0	1.8%	0.7%	70.6	69.8
5	Fletcher Drive												
	between Larga Avenue and SR-2 SB Off-Ramp	4	0	1,732	17,320	35	35	0	0	1.8%	0.7%	70.1	69.3
6	Fletcher Drive												
	between SR-2 SB Off-Ramp and Ripple Street	4	8	3,318	33,176	35	35	0	0	1.8%	0.7%	73.4	72.6
7	Fletcher Drive												
	between Ripple Street and Riverside Drive	4	0	3,217	32,175	35	35	0	0	1.8%	0.7%	72.8	72.0
8	Fletcher Drive												
	between Riverside Drive and Glendale Blvd.	4	12	2,763	27,634	35	35	0	0	1.8%	0.7%	72.8	72.1
9	Glendale Blvd.												
	between Fletcher Dr. and Lakewood Ave	4	12	2,443	24,427	35	35	0	0	1.8%	0.7%	72.3	71.5
10	Glendale Blvd												
	between Lakewood Ave and Fletcher Dr.	4	0	2,843	28,432	30	35	0	0	1.8%	0.7%	71.0	70.2
11	Riverside Drive												
	between Glendale Blvd. and Fletcher Dr	4	12	1,950	19,497	35	40	0	0	1.8%	0.7%	70.3	69.6
12	Riverside Drive												
	Between Fletcher Dr and Gilroy	4	12	2,605	26,045	35	50	0	0	1.8%	0.7%	70.2	69.5
13	San Fernando Road												
	Between Glendale Ave and Fletcher Ave	4	12	2,394	23,943	25	45	0	0	1.8%	0.7%	67.5	66.7
14	San Fernando Road												
	Between Fletcher Dr and Glendale Fwy.	5	0	2,612	26,121	25	45	0	0	1.8%	0.7%	67.8	67.1
15	San Fernando Road												
	Between Glendaale Fwy and Edward Way	4	0	2,534	25,336	35	35	0	0	1.8%	0.7%	71.8	71.0
16	Carillon Street												
	Between Le Clede Ave and Casitas Ave	2	0	185	1,846	25	20	0	0	1.8%	0.7%	59.3	58.6
17	Larga Ave												
	Between Fletcher Dr and Carillon St	2	0	281	2,812	35	20	0	0	1.8%	0.7%	64.2	63.4
18	Le Clede Ave												
	Between Fletcher Dr and Carillon St	2	0	421	4,212	35	20	0	0	1.8%	0.7%	65.9	65.2

**OFF-SITE TRAFFIC NOISE LEVELS - COMMERCIAL OFFICE ALTERNATIVE**

**Project Name:** 2800 Casitas Lofts Project  
**Analyst:** Elise Lorenzana  
**Date:** 3/7/18

**Background Information**

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.  
 Analysis Scenario(s): (1)Existing, (2)Existing with Project, (3)Future without project, and (4)Future with Project  
 Source of Traffic Volumes: The Mobility Group, December 15, 2017.  
 Community Noise Descriptor:  $L_{dn}$ : \_\_\_\_\_ CNEL:  X

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%

**Traffic Noise Levels**

Analysis Condition		Lanes	Median Width	Peak Hour Volume	ADT Volume <sup>1</sup>	Design Speed (mph)	Dist. from Center to Receptor <sup>2</sup>	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix		Peak Hour dB(A) $L_{eq}$	24-Hour dB(A) CNEL
Roadway Name	Roadway Segment									Medium Trucks	Heavy Trucks		

**Future without Alternative (2023) Traffic Volumes**

1	Fletcher Drive												
	between Ave 34 and Estara Ave	2	12	1,259	12,590	35	35	0	0	1.8%	0.7%	68.3	67.6
2	Fletcher Drive												
	between Estara Avenue and San Fernando Road	4	12	1,814	18,140	35	35	0	0	1.8%	0.7%	71.0	70.3
3	Fletcher Drive												
	between San Fernando Road and La Clede Avenue	4	0	2,408	24,080	35	35	0	0	1.8%	0.7%	71.5	70.8
4	Fletcher Drive												
	between La Clede Avenue and Larga Avenue	4	0	1,887	18,870	35	35	0	0	1.8%	0.7%	70.5	69.7
5	Fletcher Drive												
	between Larga Avenue and SR-2 SB Off-Ramp	4	0	1,791	17,910	35	35	0	0	1.8%	0.7%	70.2	69.5
6	Fletcher Drive												
	between SR-2 SB Off-Ramp and Ripple Street	4	8	3,497	34,970	35	35	0	0	1.8%	0.7%	73.6	72.8
7	Fletcher Drive												
	between Ripple Street and Riverside Drive	4	0	3,401	34,010	35	35	0	0	1.8%	0.7%	73.0	72.3
8	Fletcher Drive												
	between Riverside Drive and Glendale Blvd.	4	12	2,937	29,370	35	35	0	0	1.8%	0.7%	73.1	72.3
9	Glendale Blvd.												
	between Fletcher Dr. and Lakewood Ave	4	12	2,680	26,800	35	35	0	0	1.8%	0.7%	72.7	71.9
10	Glendale Blvd												
	between Lakewood Ave and Fletcher Dr.	4	0	837	8,370	30	35	0	0	1.8%	0.7%	65.7	64.9
11	Riverside Drive												
	between Glendale Blvd. and Fletcher Dr	4	12	2,109	21,090	35	40	0	0	1.8%	0.7%	70.7	69.9
12	Riverside Drive												
	Between Fletcher Dr and Gilroy	4	12	2,536	25,360	35	50	0	0	1.8%	0.7%	70.1	69.3
13	San Fernando Road												
	Between Glendale Ave and Fletcher Ave	4	12	2,625	26,250	25	45	0	0	1.8%	0.7%	67.9	67.1
14	San Fernando Road												
	Between Fletcher Dr and Glendale Fwy.	5	0	2,799	27,990	25	45	0	0	1.8%	0.7%	68.1	67.4
15	San Fernando Road												
	Between Glendaale Fwy and Edward Way	4	0	2,845	28,450	35	35	0	0	1.8%	0.7%	72.3	71.5
16	Carillon Street												
	Between Le Clede Ave and Casitas Ave	2	0	72	720	25	20	0	0	1.8%	0.7%	55.2	54.5
17	Larga Ave												
	Between Fletcher Dr and Carillon St	2	0	60	600	35	20	0	0	1.8%	0.7%	57.5	56.7
18	Le Clede Ave												
	Between Fletcher Dr and Carillon St	2	0	63	630	35	20	0	0	1.8%	0.7%	57.7	56.9

**OFF-SITE TRAFFIC NOISE LEVELS - COMMERCIAL OFFICE ALTERNATIVE**

**Project Name:** 2800 Casitas Lofts Project  
**Analyst:** Elise Lorenzana  
**Date:** 3/7/18

**Background Information**

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.  
 Analysis Scenario(s): (1)Existing, (2)Existing with Project, (3)Future without project, and (4)Future with Project  
 Source of Traffic Volumes: The Mobility Group, December 15, 2017.  
 Community Noise Descriptor:  $L_{dn}$ : \_\_\_\_\_ CNEL:  X

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%

**Traffic Noise Levels**

Analysis Condition		Lanes	Median Width	Peak Hour Volume	ADT Volume <sup>1</sup>	Design Speed (mph)	Dist. from Center to Receptor <sup>2</sup>	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix		Peak Hour dB(A) $L_{eq}$	24-Hour dB(A) CNEL
Roadway Name	Roadway Segment									Land Use	Medium Trucks		
<b>Future with Alternative (2023) Traffic Volumes</b>													
1	Fletcher Drive												
	between Ave 34 and Estara Ave	2	12	1,301	13,011	35	35	0	0	1.8%	0.7%	68.5	67.7
2	Fletcher Drive												
	between Estara Avenue and San Fernando Road	4	12	1,856	18,561	35	35	0	0	1.8%	0.7%	71.1	70.4
3	Fletcher Drive												
	between San Fernando Road and La Clede Avenue	4	0	2,583	25,831	35	35	0	0	1.8%	0.7%	71.8	71.1
4	Fletcher Drive												
	between La Clede Avenue and Larga Avenue	4	0	1,887	18,870	35	35	0	0	1.8%	0.7%	70.5	69.7
5	Fletcher Drive												
	between Larga Avenue and SR-2 SB Off-Ramp	4	0	1,886	18,860	35	35	0	0	1.8%	0.7%	70.5	69.7
6	Fletcher Drive												
	between SR-2 SB Off-Ramp and Ripple Street	4	8	3,587	35,866	35	35	0	0	1.8%	0.7%	73.7	72.9
7	Fletcher Drive												
	between Ripple Street and Riverside Drive	4	0	3,486	34,865	35	35	0	0	1.8%	0.7%	73.1	72.4
8	Fletcher Drive												
	between Riverside Drive and Glendale Blvd.	4	12	2,999	29,994	35	35	0	0	1.8%	0.7%	73.2	72.4
9	Glendale Blvd.												
	between Fletcher Dr. and Lakewood Ave	4	12	2,702	27,017	35	35	0	0	1.8%	0.7%	72.7	72.0
10	Glendale Blvd												
	between Lakewood Ave and Fletcher Dr.	4	0	853	8,533	30	35	0	0	1.8%	0.7%	65.7	65.0
11	Riverside Drive												
	between Glendale Blvd. and Fletcher Dr	4	12	2,112	21,117	35	40	0	0	1.8%	0.7%	70.7	69.9
12	Riverside Drive												
	Between Fletcher Dr and Gilroy	4	12	2,536	25,360	35	50	0	0	1.8%	0.7%	70.1	69.3
13	San Fernando Road												
	Between Glendale Ave and Fletcher Ave	4	12	2,660	26,603	25	45	0	0	1.8%	0.7%	67.9	67.1
14	San Fernando Road												
	Between Fletcher Dr and Glendale Fwy.	5	0	2,898	28,981	25	45	0	0	1.8%	0.7%	68.3	67.5
15	San Fernando Road												
	Between Glendaale Fwy and Edward Way	4	0	2,897	28,966	35	35	0	0	1.8%	0.7%	72.3	71.6
16	Carillon Street												
	Between Le Clede Ave and Casitas Ave	2	0	185	1,846	25	20	0	0	1.8%	0.7%	59.3	58.6
17	Larga Ave												
	Between Fletcher Dr and Carillon St	2	0	281	2,812	35	20	0	0	1.8%	0.7%	64.2	63.4
18	Le Clede Ave												
	Between Fletcher Dr and Carillon St	2	0	421	4,212	35	20	0	0	1.8%	0.7%	65.9	65.2

**OFF-SITE TRAFFIC NOISE LEVELS - RESIDENTIAL ONLY ALTERNATIVE**

**Existing Baseline / Existing with Alternative**

Roadway	Existing Baseline	Existing with Project	% Alternative [a]	Project Trips	Alternative Trips	Existing with Alternative	Existing Noise Level	Existing w Alternative Noise Level	Impact	Significant? (Yes/No)
1	1,156	1,187	0.865	31	27	1,183	67.2	67.3	0.1	No
2	1,675	1,706	0.865	31	27	1,702	69.9	70.0	0.1	No
3	2,213	2,342	0.865	129	112	2,325	70.4	70.6	0.2	No
4	1,726	1,887	0.865	161	139	1,865	69.3	69.7	0.3	No
5	1,637	1,707	0.865	70	61	1,698	69.1	69.3	0.2	No
6	3,228	3,294	0.865	66	57	3,285	72.5	72.5	0.1	No
7	3,132	3,195	0.865	63	54	3,186	71.9	72.0	0.1	No
8	2,701	2,747	0.865	46	40	2,741	72.0	72.0	0.1	No
9	2,421	2,437	0.865	16	14	2,435	71.5	71.5	0.0	No
10	2,428	2,734	0.865	306	265	2,693	69.5	70.0	0.4	No
11	1,947	1,949	0.865	2	2	1,949	69.6	69.6	0.0	No
12	2,344	2,536	0.865	192	166	2,510	69.0	69.3	0.3	No
13	2,359	2,385	0.865	26	22	2,381	66.6	66.7	0.0	No
14	2,513	2,586	0.865	73	63	2,576	66.9	67.0	0.1	No
15	2,482	2,520	0.865	38	33	2,515	70.9	71.0	0.1	No
16	72	155	0.865	83	72	144	54.4	57.5	3.0	No
17	60	223	0.865	163	141	201	56.7	62.0	5.3	Yes
18	63	327	0.865	264	228	291	56.9	63.6	6.6	Yes

**Future Baseline / Future with Alternative**

Roadway	Future Baseline	Future with Proposed Project	% Alternative [a]	Project Trips	Alternative Trips	Future with Alternative Trips	Future Baseline Noise Level	Future w Alternative Noise Level	Impact	Significant? (Yes/No)
1	1,259	1,290	0.865	31	27	1,286	67.6	67.6	0.1	No
2	1,814	1,845	0.865	31	27	1,841	70.3	70.3	0.1	No
3	2,408	2,537	0.865	129	112	2,520	70.8	71.0	0.2	No
4	1,887	1,887	0.865	0	0	1,887	69.7	69.7	0.0	No
5	1,791	1,861	0.865	70	61	1,852	69.5	69.6	0.1	No
6	3,497	3,563	0.865	66	57	3,554	72.8	72.9	0.1	No
7	3,401	3,464	0.865	63	54	3,455	72.3	72.3	0.1	No
8	2,937	2,983	0.865	46	40	2,977	72.3	72.4	0.1	No
9	2,680	2,696	0.865	16	14	2,694	71.9	72.0	0.0	No
10	837	849	0.865	12	10	847	64.9	64.9	0.1	No
11	2,109	2,111	0.865	2	2	2,111	69.9	69.9	0.0	No
12	2,536	2,536	0.865	0	0	2,536	69.3	69.3	0.0	No
13	2,625	2,651	0.865	26	22	2,647	67.1	67.1	0.0	No
14	2,799	2,872	0.865	73	63	2,862	67.4	67.5	0.1	No
15	2,845	2,883	0.865	38	33	2,878	71.5	71.5	0.0	No
16	72	155	0.865	83	72	144	54.5	57.5	3.0	No
17	60	223	0.865	163	141	201	56.7	62.0	5.3	Yes
18	63	327	0.865	264	228	291	56.9	63.6	6.7	Yes

[a] This percentage calculated by taking ratio of Residential Alternative trips (2,207 trips) divided by Project trips (2,551) = 86.5%

**OFF-SITE TRAFFIC NOISE LEVELS - RESIDENTIAL ONLY ALTERNATIVE**

**Project Name:** 2800 Casitas Lofts Project  
**Analyst:** Elise Lorenzana  
**Date:** 3/7/18

**Background Information**

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.  
 Analysis Scenario(s): (1)Existing, (2)Existing with Project, (3)Future without project, and (4)Future with Project  
 Source of Traffic Volumes: The Mobility Group, December 15, 2017.  
 Community Noise Descriptor:  $L_{dn}$ : \_\_\_\_\_ CNEL:  X

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%

**Traffic Noise Levels**

Analysis Condition		Lanes	Median Width	Peak Hour Volume	ADT Volume <sup>1</sup>	Design Speed (mph)	Dist. from Center to Receptor <sup>2</sup>	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix		Peak Hour $L_{eq}$ dB(A)	24-Hour dB(A) CNEL
Roadway Name	Land Use									Medium Trucks	Heavy Trucks		
<b>Existing (2016) Traffic Volumes</b>													
1 Fletcher Drive													
between Ave 34 and Estara Ave		2	12	1,156	11,560	35	35	0	0	1.8%	0.7%	68.0	67.2
2 Fletcher Drive													
between Estara Avenue and San Fernando Road		4	12	1,675	16,750	35	35	0	0	1.8%	0.7%	70.7	69.9
3 Fletcher Drive													
between San Fernando Road and La Clede Avenue		4	0	2,213	22,130	35	35	0	0	1.8%	0.7%	71.2	70.4
4 Fletcher Drive													
between La Clede Avenue and Larga Avenue		4	0	1,726	17,260	35	35	0	0	1.8%	0.7%	70.1	69.3
5 Fletcher Drive													
between Larga Avenue and SR-2 SB Off-Ramp		4	0	1,637	16,370	35	35	0	0	1.8%	0.7%	69.9	69.1
6 Fletcher Drive													
between SR-2 SB Off-Ramp and Ripple Street		4	8	3,228	32,280	35	35	0	0	1.8%	0.7%	73.2	72.5
7 Fletcher Drive													
between Ripple Street and Riverside Drive		4	0	3,132	31,320	35	35	0	0	1.8%	0.7%	72.7	71.9
8 Fletcher Drive													
between Riverside Drive and Glendale Blvd.		4	12	2,701	27,010	35	35	0	0	1.8%	0.7%	72.7	72.0
9 Glendale Blvd.													
between Fletcher Dr. and Silver Lake Ave		4	12	2,421	24,210	35	35	0	0	1.8%	0.7%	72.3	71.5
10 Glendale Blvd													
between Lakewood Ave and Fletcher Dr.		4	0	2,428	24,280	30	35	0	0	1.8%	0.7%	70.3	69.5
11 Riverside Drive													
between Glendale Blvd. and Fletcher Dr		4	12	1,947	19,470	35	40	0	0	1.8%	0.7%	70.3	69.6
12 Riverside Drive													
Between Fletcher Dr and Gilroy		4	12	2,344	23,440	35	50	0	0	1.8%	0.7%	69.8	69.0
13 San Fernando Road													
Between Glendale Ave and Fletcher Ave		4	12	2,359	23,590	25	45	0	0	1.8%	0.7%	67.4	66.6
14 San Fernando Road													
Between Fletcher Dr and Glendale Fwy.		5	0	2,513	25,130	25	45	0	0	1.8%	0.7%	67.7	66.9
15 San Fernando Road													
Between Glendale Fwy and Edward Fwy.		4	0	2,482	24,820	35	35	0	0	1.8%	0.7%	71.7	70.9
16 Carillon Street													
Between Le Clede Ave and Casitas Ave		2	0	72	718	25	20	0	0	1.8%	0.7%	55.2	54.4
17 Larga Ave													
Between Fletcher Dr and Carillon St		2	0	60	600	35	20	0	0	1.8%	0.7%	57.5	56.7
18 Le Clede Ave													
Between Fletcher Dr and Carillon St		2	0	63	634	35	20	0	0	1.8%	0.7%	57.7	56.9

**OFF-SITE TRAFFIC NOISE LEVELS - RESIDENTIAL ONLY ALTERNATIVE**

**Project Name:** 2800 Casitas Lofts Project  
**Analyst:** Elise Lorenzana  
**Date:** 3/7/18

**Background Information**

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.  
 Analysis Scenario(s): (1)Existing, (2)Existing with Project, (3)Future without project, and (4)Future with Project  
 Source of Traffic Volumes: The Mobility Group, December 15, 2017.  
 Community Noise Descriptor:  $L_{dn}$ : \_\_\_\_\_ CNEL:  X

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%

**Traffic Noise Levels**

Analysis Condition		Lanes	Median Width	Peak Hour Volume	ADT Volume <sup>1</sup>	Design Speed (mph)	Dist. from Center to Receptor <sup>2</sup>	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix		Peak Hour	24-Hour
Roadway Name	Land Use									Medium Trucks	Heavy Trucks	dB(A) $L_{eq}$	dB(A) CNEL
<b>Existing with Alternative (2016) Traffic Volumes</b>													
1 Fletcher Drive	between Ave 34 and Estara Ave	2	12	1,183	11,828	35	35	0	0	1.8%	0.7%	68.1	67.3
2 Fletcher Drive	between Estara Avenue and San Fernando Road	4	12	1,702	17,018	35	35	0	0	1.8%	0.7%	70.7	70.0
3 Fletcher Drive	between San Fernando Road and La Clede Avenue	4	0	2,325	23,246	35	35	0	0	1.8%	0.7%	71.4	70.6
4 Fletcher Drive	between La Clede Avenue and Larga Avenue	4	0	1,865	18,653	35	35	0	0	1.8%	0.7%	70.4	69.7
5 Fletcher Drive	between Larga Avenue and SR-2 SB Off-Ramp	4	0	1,698	16,976	35	35	0	0	1.8%	0.7%	70.0	69.3
6 Fletcher Drive	between SR-2 SB Off-Ramp and Ripple Street	4	8	3,285	32,851	35	35	0	0	1.8%	0.7%	73.3	72.5
7 Fletcher Drive	between Ripple Street and Riverside Drive	4	0	3,186	31,865	35	35	0	0	1.8%	0.7%	72.8	72.0
8 Fletcher Drive	between Riverside Drive and Glendale Blvd.	4	12	2,741	27,408	35	35	0	0	1.8%	0.7%	72.8	72.0
9 Glendale Blvd.	between Fletcher Dr. and Lakewood Ave	4	12	2,435	24,348	35	35	0	0	1.8%	0.7%	72.3	71.5
10 Glendale Blvd	between Lakewood Ave and Fletcher Dr.	4	0	2,693	26,927	30	35	0	0	1.8%	0.7%	70.7	70.0
11 Riverside Drive	between Glendale Blvd. and Fletcher Dr	4	12	1,949	19,487	35	40	0	0	1.8%	0.7%	70.3	69.6
12 Riverside Drive	Between Fletcher Dr and Gilroy	4	12	2,510	25,101	35	50	0	0	1.8%	0.7%	70.1	69.3
13 San Fernando Road	Between Glendale Ave and Fletcher Ave	4	12	2,381	23,815	25	45	0	0	1.8%	0.7%	67.4	66.7
14 San Fernando Road	Between Fletcher Dr and Glendale Fwy.	5	0	2,576	25,761	25	45	0	0	1.8%	0.7%	67.8	67.0
15 San Fernando Road	Between Glendaale Fwy and Edward Way	4	0	2,515	25,149	35	35	0	0	1.8%	0.7%	71.7	71.0
16 Carillon Street	Between Le Clede Ave and Casitas Ave	2	0	144	1,438	25	20	0	0	1.8%	0.7%	58.3	57.5
17 Larga Ave	Between Fletcher Dr and Carillon St	2	0	201	2,010	35	20	0	0	1.8%	0.7%	62.7	62.0
18 Le Clede Ave	Between Fletcher Dr and Carillon St	2	0	291	2,914	35	20	0	0	1.8%	0.7%	64.3	63.6

**OFF-SITE TRAFFIC NOISE LEVELS - RESIDENTIAL ONLY ALTERNATIVE**

**Project Name:** 2800 Casitas Lofts Project  
**Analyst:** Elise Lorenzana  
**Date:** 3/7/18

**Background Information**

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.  
 Analysis Scenario(s): (1)Existing, (2)Existing with Project, (3)Future without project, and (4)Future with Project  
 Source of Traffic Volumes: The Mobility Group, December 15, 2017.  
 Community Noise Descriptor:  $L_{dn}$ : \_\_\_\_\_ CNEL:  X

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%

**Traffic Noise Levels**

Analysis Condition		Lanes	Median Width	Peak Hour Volume	ADT Volume <sup>1</sup>	Design Speed (mph)	Dist. from Center to Receptor <sup>2</sup>	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix		Peak Hour dB(A) $L_{eq}$	24-Hour dB(A) CNEL
Roadway Name	Roadway Segment									Medium Trucks	Heavy Trucks		

**Future without Alternative (2023) Traffic Volumes**

1	Fletcher Drive												
	between Ave 34 and Estara Ave	2	12	1,259	12,590	35	35	0	0	1.8%	0.7%	68.3	67.6
2	Fletcher Drive												
	between Estara Avenue and San Fernando Road	4	12	1,814	18,140	35	35	0	0	1.8%	0.7%	71.0	70.3
3	Fletcher Drive												
	between San Fernando Road and La Clede Avenue	4	0	2,408	24,080	35	35	0	0	1.8%	0.7%	71.5	70.8
4	Fletcher Drive												
	between La Clede Avenue and Larga Avenue	4	0	1,887	18,870	35	35	0	0	1.8%	0.7%	70.5	69.7
5	Fletcher Drive												
	between Larga Avenue and SR-2 SB Off-Ramp	4	0	1,791	17,910	35	35	0	0	1.8%	0.7%	70.2	69.5
6	Fletcher Drive												
	between SR-2 SB Off-Ramp and Ripple Street	4	8	3,497	34,970	35	35	0	0	1.8%	0.7%	73.6	72.8
7	Fletcher Drive												
	between Ripple Street and Riverside Drive	4	0	3,401	34,010	35	35	0	0	1.8%	0.7%	73.0	72.3
8	Fletcher Drive												
	between Riverside Drive and Glendale Blvd.	4	12	2,937	29,370	35	35	0	0	1.8%	0.7%	73.1	72.3
9	Glendale Blvd.												
	between Fletcher Dr. and Lakewood Ave	4	12	2,680	26,800	35	35	0	0	1.8%	0.7%	72.7	71.9
10	Glendale Blvd												
	between Lakewood Ave and Fletcher Dr.	4	0	837	8,370	30	35	0	0	1.8%	0.7%	65.7	64.9
11	Riverside Drive												
	between Glendale Blvd. and Fletcher Dr	4	12	2,109	21,090	35	40	0	0	1.8%	0.7%	70.7	69.9
12	Riverside Drive												
	Between Fletcher Dr and Gilroy	4	12	2,536	25,360	35	50	0	0	1.8%	0.7%	70.1	69.3
13	San Fernando Road												
	Between Glendale Ave and Fletcher Ave	4	12	2,625	26,250	25	45	0	0	1.8%	0.7%	67.9	67.1
14	San Fernando Road												
	Between Fletcher Dr and Glendale Fwy.	5	0	2,799	27,990	25	45	0	0	1.8%	0.7%	68.1	67.4
15	San Fernando Road												
	Between Glendaale Fwy and Edward Way	4	0	2,845	28,450	35	35	0	0	1.8%	0.7%	72.3	71.5
16	Carillon Street												
	Between Le Clede Ave and Casitas Ave	2	0	72	720	25	20	0	0	1.8%	0.7%	55.2	54.5
17	Larga Ave												
	Between Fletcher Dr and Carillon St	2	0	60	600	35	20	0	0	1.8%	0.7%	57.5	56.7
18	Le Clede Ave												
	Between Fletcher Dr and Carillon St	2	0	63	630	35	20	0	0	1.8%	0.7%	57.7	56.9



**OFF-SITE TRAFFIC NOISE LEVELS - RESIDENTIAL ONLY ALTERNATIVE**

**Project Name:** 2800 Casitas Lofts Project  
**Analyst:** Elise Lorenzana  
**Date:** 3/7/18

**Background Information**

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.  
 Analysis Scenario(s): (1)Existing, (2)Existing with Project, (3)Future without project, and (4)Future with Project  
 Source of Traffic Volumes: The Mobility Group, December 15, 2017.  
 Community Noise Descriptor:  $L_{dn}$ : \_\_\_\_\_ CNEL:  X

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%

**Traffic Noise Levels**

Analysis Condition		Lanes	Median Width	Peak Hour Volume	ADT Volume <sup>1</sup>	Design Speed (mph)	Dist. from Center to Receptor <sup>2</sup>	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix		Peak Hour dB(A) $L_{eq}$	24-Hour dB(A) CNEL
Roadway Name	Roadway Segment									Medium Trucks	Heavy Trucks		

**Future with Alternative (2023) Traffic Volumes**

1	Fletcher Drive												
	between Ave 34 and Estara Ave	2	12	1,286	12,858	35	35	0	0	1.8%	0.7%	68.4	67.6
2	Fletcher Drive												
	between Estara Avenue and San Fernando Road	4	12	1,841	18,408	35	35	0	0	1.8%	0.7%	71.1	70.3
3	Fletcher Drive												
	between San Fernando Road and La Clede Avenue	4	0	2,520	25,196	35	35	0	0	1.8%	0.7%	71.7	71.0
4	Fletcher Drive												
	between La Clede Avenue and Larga Avenue	4	0	1,887	18,870	35	35	0	0	1.8%	0.7%	70.5	69.7
5	Fletcher Drive												
	between Larga Avenue and SR-2 SB Off-Ramp	4	0	1,852	18,516	35	35	0	0	1.8%	0.7%	70.4	69.6
6	Fletcher Drive												
	between SR-2 SB Off-Ramp and Ripple Street	4	8	3,554	35,541	35	35	0	0	1.8%	0.7%	73.7	72.9
7	Fletcher Drive												
	between Ripple Street and Riverside Drive	4	0	3,455	34,555	35	35	0	0	1.8%	0.7%	73.1	72.3
8	Fletcher Drive												
	between Riverside Drive and Glendale Blvd.	4	12	2,977	29,768	35	35	0	0	1.8%	0.7%	73.2	72.4
9	Glendale Blvd.												
	between Fletcher Dr. and Lakewood Ave	4	12	2,694	26,938	35	35	0	0	1.8%	0.7%	72.7	72.0
10	Glendale Blvd												
	between Lakewood Ave and Fletcher Dr.	4	0	847	8,474	30	35	0	0	1.8%	0.7%	65.7	64.9
11	Riverside Drive												
	between Glendale Blvd. and Fletcher Dr	4	12	2,111	21,107	35	40	0	0	1.8%	0.7%	70.7	69.9
12	Riverside Drive												
	Between Fletcher Dr and Gilroy	4	12	2,536	25,360	35	50	0	0	1.8%	0.7%	70.1	69.3
13	San Fernando Road												
	Between Glendale Ave and Fletcher Ave	4	12	2,647	26,475	25	45	0	0	1.8%	0.7%	67.9	67.1
14	San Fernando Road												
	Between Fletcher Dr and Glendale Fwy.	5	0	2,862	28,621	25	45	0	0	1.8%	0.7%	68.2	67.5
15	San Fernando Road												
	Between Glendaale Fwy and Edward Way	4	0	2,878	28,779	35	35	0	0	1.8%	0.7%	72.3	71.5
16	Carillon Street												
	Between Le Clede Ave and Casitas Ave	2	0	144	1,438	25	20	0	0	1.8%	0.7%	58.3	57.5
17	Larga Ave												
	Between Fletcher Dr and Carillon St	2	0	201	2,010	35	20	0	0	1.8%	0.7%	62.7	62.0
18	Le Clede Ave												
	Between Fletcher Dr and Carillon St	2	0	291	2,914	35	20	0	0	1.8%	0.7%	64.3	63.6