APPENDIX O

PROJECT ALTERNATIVES ROADWAY NOISE CALCULATION WORKSHEETS



Existing Baseline / Existing with Alternative

Roadway	Existing Baseline 1,156	Existing with Project 1,187	% Alternative [a] 0.73	Project Trips 31	Alternative Trips 23	Existing with Alternative 1,179	Existing Noise Level 67.2	Existing w Alternative Noise Level 67.3	Impact 0.1	Significant? (Yes/No) 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 1	Future Baseline 1,259	Future with Proposed Project 1,290	% Alternative [a] 0.73	Project Trips	Alternative Trips 23	Future with Alternative 1,282	Future Baseline Noise Level 67.6	Future w Alternative Noise Level 67.6	Impact 0.1	Significant? (Yes/No) 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%



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

Background Information

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels. (1)Existing, (2)Existing with Project, (3)Future without project, and (4)Future with Project The Mobility Group, December 15, 2017.

CNEL:

Analysis Scenario(s): Source of Traffic Volumes:

Community Noise Descriptor:

Analysis Condition Peak Design Dist. from Barrier	Vehicle Mix	Peak Hou	24-Hour
Roadway Name Median Hour ADT Speed Center to Alpha Attn. Med	dium Heavy	y dB(A)	dB(A)
Roadway Segment Land Use Lanes Width Volume Volume (mph) Receptor ² Factor dB(A) Tru	icks Trucks	s L _{eq}	CNEL
Existing (2016) Traffic Volumes			
1 Fletcher Drive between Ave 34 and Estara Ave 2 12 1,156 11,560 35 35 0 0 1.6	8% 0.7%	68.0	67.2
between Ave 34 and Estara Ave 2 12 1,156 11,560 35 35 0 0 1.8 2. Eletcher Drive	6% U.7%	00.0	07.2
= · · · · · · · · · · · · · · · · · · ·	8% 0.7%	70.7	69.9
between testal a Avenue and sail remando Road 4 12 1,075 10,750 35 35 0 0 1.8 3 Fletcher Drive	070 0.770	70.7	09.9
	8% 0.7%	71.2	70.4
4 Fletcher Drive	0.770	71.2	70.4
	8% 0.7%	70.1	69.3
5 Fletcher Drive	0.1.70		00.0
	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 1.6	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 1.6	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	8% 0.7%	72.7	72.0
9 Glendale Blvd.			
	8% 0.7%	72.3	71.5
10 Glendale Blvd			
	8% 0.7%	70.3	69.5
11 Riverside Drive			
	8% 0.7%	70.3	69.6
12 Riverside Drive			
	8% 0.7%	69.8	69.0
13 San Fernando Road			
	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	00/ 0.70/	07.7	00.0
Between Fletcher Dr and Glendale Fwy. 5 0 2,513 25,130 25 45 0 0 1.8 15 San Fernando Road	8% 0.7%	67.7	66.9
	8% 0.7%	71.7	70.9
Between Gentuale rwy and Edward vivay 4 0 2,462 24,620 30 30 0 0 1.6 16 Carillo Street	070 0.770	71.7	70.9
	8% 0.7%	55.2	54.4
Deliver Le Cieure Ave and Casilas Ave 2 0 72 710 23 20 0 0 1.0	0.770	33.2	34.4
	8% 0.7%	57.5	56.7
18 Le Clede Ave	0.770	. 07.0	50.7
	8% 0.7%	57.7	56.9



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

Background Information

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels. (1)Existing, (2)Existing with Project, (3)Future without project, and (4)Future with Project The Mobility Group, December 15, 2017. Model Description:

CNEL:

Analysis Scenario(s): Source of Traffic Volumes:

Community Noise Descriptor:

Analysis Condition				Peak		Design	Dist. from		Barrier	Vehic	le Mix	Peak Hour	24-Hour
Roadway Name			Median	Hour	ADT	Speed	Center to	Alpha	Attn.	Medium	Heavy	dB(A)	dB(A)
Roadway Segment	Land Use	Lanes	Width	Volume	Volume ¹	(mph)	Receptor ²	Factor	dB(A)	Trucks	Trucks	Lèg	CNEL
Frieding with Alternative (2016) Tref	E Valumas												
Existing with Alternative (2016) Traf 1 Fletcher Drive	TIC VOIUMES												
between Ave 34 and Estara A	VA.	2	12	1.179	11.786	35	35	0	0	1.8%	0.7%	68.0	67.3
2 Fletcher Drive	we	2	12	1,179	11,700	33	33	U	U	1.070	0.7 70	00.0	07.5
between Estara Avenue and S	San Fernando Road	4	12	1.698	16.976	35	35	0	0	1.8%	0.7%	70.7	70.0
3 Fletcher Drive	Sur i ciriando resad	-	12	1,000	10,570	00	00	o	Ū	1.070	0.1 70	70.7	70.0
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	and Ed Glode / Worlds	•	·	2,001	20,012	00	00	·	·	1.070	0.1 70		7 0.0
between La Clede Avenue an	d Larga Avenue	4	0	1,844	18.435	35	35	0	0	1.8%	0.7%	70.4	69.6
5 Fletcher Drive	9			.,	,								
between Larga Avenue and S	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 a	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 Riv	verside 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 Lak	ewood 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 F	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 F	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 Gilro	oy	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 FI	letcher Ave	4	12	2,378	23,780	25	45	0	0	1.8%	0.7%	67.4	66.7
14 San Fernando Road		_									. =0/		
Between Fletcher Dr and Gler	ndale Fwy.	5	0	2,566	25,663	25	45	0	0	1.8%	0.7%	67.8	67.0
15 San Fernando Road	Educative		•	0.540	05.007	0.5	0.5	•		4.00/	0.70/	74.7	74.0
Between Glendaale Fwy and	Edward vvay	4	0	2,510	25,097	35	35	0	0	1.8%	0.7%	71.7	71.0
16 Carillon Street			•	400	4 000	0.5	00	•		4.00/	0.70/	F7.0	57.4
Between Le Clede Ave and C	asitas Ave	2	0	133	1,326	25	20	0	0	1.8%	0.7%	57.9	57.1
17 Larga Ave	illan C4	2	0	470	4 700	25	20	0	0	4.00/	0.70/	60.0	64.5
Between Fletcher Dr and Cari 18 Le Clede Ave	IIIOTI St	2	0	179	1,790	35	20	U	U	1.8%	0.7%	62.2	61.5
Between Fletcher Dr and Cari	illon St	2	0	256	2.557	35	20	0	0	1.8%	0.7%	63.8	63.0
between Fletcher Dr and Can	IIIOII ƏL	2	U	256	2,557	35	20	U	U	1.8%	0.7%	63.8	63.0



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

Background Information

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CNEL:

Analysis Scenario(s): Source of Traffic Volumes:

Community Noise Descriptor:

nalysis Condition				Peak		Design	Dist. from		Barrier	Vehic	le Mix	Peak Hour	24-Hou
Roadway Name			Median	Hour	ADT	Speed	Center to	Alpha	Attn.	Medium	Heavy	dB(A)	dB(A)
Roadway Segment	Land Use	Lanes	Width	Volume	Volume ¹	(mph)	Receptor ²	Factor	dB(A)	Trucks	Trucks	L _{eq}	CNEL
uture without Project (2023) Traffic V	olumes												
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		2	12	1,259	12,590	35	35	U	U	1.0%	0.7%	00.3	07.0
between Estara Avenue and Sar	Eernando Poad	4	12	1,814	18,140	35	35	0	0	1.8%	0.7%	71.0	70.3
3 Fletcher Drive	TT emando read	7	12	1,014	10,140	33	33	U	U	1.070	0.770	71.0	70.5
between San Fernando Road an	nd La Clede Avenue	4	0	2.408	24.080	35	35	0	0	1.8%	0.7%	71.5	70.8
4 Fletcher Drive	la La Olcac / Wellac	7	Ü	2,400	24,000	00	55	Ü	Ü	1.070	0.770	71.0	70.0
between La Clede Avenue and L	arga Avenue	4	0	1.887	18.870	35	35	0	0	1.8%	0.7%	70.5	69.7
5 Fletcher Drive	9	•	-	.,	,			-	-		•		
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	d 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 River	rside 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 Gle	endale 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 Lakew	rood 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 Flet	tcher 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 Flet	tcher 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 Fleto	-h A		40	0.005	00.050	0.5	45	•	•	4.00/	0.70/	07.0	07.4
Between Glendale Ave and Fleto 14 San Fernando Road	oner Ave	4	12	2,625	26,250	25	45	0	0	1.8%	0.7%	67.9	67.1
Between Fletcher Dr and Glenda	alo Evar	5	0	2.799	27,990	25	45	0	0	1.8%	0.7%	68.1	67.4
15 San Fernando Road	ale rwy.	5	U	2,199	21,990	25	45	U	U	1.070	0.776	00.1	07.4
Between Glendaale Fwy and Ed	ward Way	4	0	2.845	28,450	35	35	0	0	1.8%	0.7%	72.3	71.5
16 Carillon Street	waid vvay	-	U	2,043	20,400	33	33	U	U	1.070	0.7 /0	12.5	71.5
Between Le Clede Ave and Casi	itas Ave	2	0	72	720	25	20	0	0	1.8%	0.7%	55.2	54.5
17 Larga Ave	itus / WC	-	Ü	12	720	20	20	Ü	Ü	1.070	0.770	00.E	04.0
Between Fletcher Dr and Carillon	n St	2	0	60	600	35	20	0	0	1.8%	0.7%	57.5	56.7
18 Le Clede Ave		-	0	50	550	30	_0	3	Ü		5.7 70	07.0	30.1
Between Fletcher Dr and Carillon		2	0	63	630	35	20	0	0	1.8%	0.7%	57.7	56.9



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

Background Information

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Analysis Scenario(s): Source of Traffic Volumes:

Community Noise Descriptor:

Traffic Noise Levels													
Analysis Condition				Peak		Design	Dist. from		Barrier	Vehic	le Mix	Peak Hour	24-Hour
Roadway Name			Median	Hour	ADT	Speed	Center to	Alpha	Attn.	Medium	Heavy	dB(A)	dB(A)
Roadway Segment	Land Use	Lanes	Width	Volume	Volume ¹	(mph)	Receptor ²	Factor	dB(A)	Trucks	Trucks	Leg	CNEL
Future with Alternative (2023) Traffic Volumes													
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 Fernand	do 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 Cler	de 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 Ave	enue	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 S	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 Driv	re	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 Bl	vd.	4	12	2,971	29,706	35	35	0	0	1.8%	0.7%	73.2	72.4
9 Glendale Blvd.			40	0.000	00.047	0.5	0.5	0		4.00/	0.70/	70.7	70.0
between Fletcher Dr. and Lakewood Ave 10 Glendale Blvd		4	12	2,692	26,917	35	35	U	0	1.8%	0.7%	72.7	72.0
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		4	U	040	0,400	30	33	U	U	1.070	0.7 %	05.7	04.9
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		7	12	2,110	21,100	00	40	Ü	Ū	1.070	0.770	70.7	00.0
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	y	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



Existing Baseline / Existing with Alternative

Roadway 1	Existing Baseline 1,156	Existing with Project 1,187	% Alternative [a] 1.357	Project Trips 31	Alternative Trips 42	Existing with Alternative 1,198	Existing Noise Level 67.2	Existing w Alternative Noise Level 67.3	Impact 0.2	Significant? (Yes/No) No
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

. atai o bacciii i	o / 1 aca. o	,				Future with	Future	Future w		
Roadway 1	Future Baseline 1,259	Future with Proposed Project 1,290	% Alternative [a] 1.357	Project Trips 31	Alternative Trips 42	Alternative Trips 1,301	Baseline Noise Level 67.6	Alternative Noise Level 67.7	Impact 0.1	Significant? (Yes/No) 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%



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

Background Information

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels. (1)Existing, (2)Existing with Project, (3)Future without project, and (4)Future with Project The Mobility Group, December 15, 2017. Model Description:

Analysis Scenario(s): Source of Traffic Volumes:

Community Noise Descriptor:

Analysis Condition				Peak		Design	Dist. from		Barrier	Vehic	lo Miv	Peak Hour	24-Hour
Roadway Name			Median	Hour	ADT	Speed	Center to	Alpha	Attn.	Medium	Heavy	dB(A)	dB(A)
Roadway Name Roadway Segment	Land Use	Lanes	Width	Volume	Volume ¹	(mph)	Receptor ²	Factor	dB(A)	Trucks	Trucks	L _{eq}	CNEL
Roadway Segment	Land Ose	Lanes	vvidiri	volume	volume	(IIIpII)	Receptor	Factor	UD(A)	HUCKS	HUCKS	Leg	CINEL
Existing (2016) Traffic Volumes 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		2	12	1,156	11,560	35	35	U	U	1.0%	0.7%	00.0	07.2
between Estara Avenue and Sar	n Fernando Poad	4	12	1.675	16.750	35	35	0	0	1.8%	0.7%	70.7	69.9
3 Fletcher Drive	ii i emando road	7	12	1,075	10,730	33	33	U	U	1.070	0.770	70.7	03.3
between San Fernando Road ar	nd La Clede Avenue	4	0	2.213	22,130	35	35	0	0	1.8%	0.7%	71.2	70.4
4 Fletcher Drive	na za ologo / Worldo		·	2,2.0	22,100	00	00	·	·	1.070	0.1 70		
between La Clede Avenue and L	arga 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	d 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 River	rside 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 Gle	endale 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 Fle	tcher Dr.	4	0	2,428	24,280	30	35	0	0	1.8%	0.7%	70.3	69.5
11 Riverside Drive										4 00/	. ===		
between Glendale Blvd. and Fle	tcher Dr	4	12	1,947	19,470	35	40	0	0	1.8%	0.7%	70.3	69.6
12 Riverside Drive			40	0.044	00.440	0.5	50	•	•	4.00/	0.70/	00.0	00.0
Between Fletcher Dr and Gilroy 13 San Fernando Road		4	12	2,344	23,440	35	50	0	0	1.8%	0.7%	69.8	69.0
Between Glendale Ave and Fleto	abor Ava	4	12	2,359	23,590	25	45	0	0	1.8%	0.7%	67.4	66.6
14 San Fernando Road	criei Ave	4	12	2,339	23,390	25	45	U	U	1.070	0.776	07.4	00.0
Between Fletcher Dr and Glenda	ale Fwy	5	0	2.513	25.130	25	45	0	0	1.8%	0.7%	67.7	66.9
15 San Fernando Road	aic i wy.	· ·	Ü	2,010	20,100	20	40	o	·	1.070	0.770	01.1	00.0
Between Glendale Fwy and Edw	vard Wav	4	0	2,482	24,820	35	35	0	0	1.8%	0.7%	71.7	70.9
16 Carillon Street	raid tray		·	2,102	21,020	00	00	·	·	1.070	0.1 70		7 0.0
Between Le Clede Ave and Casi	itas Ave	2	0	72	718	25	20	0	0	1.8%	0.7%	55.2	54.4
17 Larga Ave													
Between Fletcher Dr and Carillo	n 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 Carillo	n St	2	0	63	634	35	20	0	0	1.8%	0.7%	57.7	56.9



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

Background Information

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels. (1)Existing, (2)Existing with Project, (3)Future without project, and (4)Future with Project The Mobility Group, December 15, 2017.

CNEL:

Analysis Scenario(s): Source of Traffic Volumes:

Community Noise Descriptor:

Analysis Condition				Peak		Design	Dist. from		Barrier	Vehic	le Mix	Peak Hour	24-Hou
Roadway Name			Median	Hour	ADT	Speed	Center to	Alpha	Attn.	Medium	Heavy	dB(A)	dB(A)
Roadway Segment	Land Use	Lanes	Width	Volume	Volume ¹	(mph)	Receptor ²	Factor	dB(A)	Trucks	Trucks	L _{eq}	CNEL
5	. Walana a												
Existing with Alternative (2016) Traffic 1 Fletcher Drive	volumes												
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	•	-	12	1,100	11,501	00	55	Ü	Ü	1.070	0.770	00.1	07.0
between Estara Avenue and Sa	n Fernando Road	4	12	1,717	17,171	35	35	0	0	1.8%	0.7%	70.8	70.0
3 Fletcher Drive	Tromando roda			.,	,	00	00	Ü	·	1.070	0.1 70		. 0.0
between San Fernando Road ar	nd 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 I	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	d 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 Rive	rside 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 GI	lendale Blvd.	4	12	2,763	27,634	35	35	0	0	1.8%	0.7%	72.8	72.1
9 Glendale Blvd.										4 00/	. ===		
between Fletcher Dr. and Lakew 10 Glendale Blvd	vood Ave	4	12	2,443	24,427	35	35	0	0	1.8%	0.7%	72.3	71.5
	takan Da	4	0	0.040	00.400	00	0.5	0	•	4.00/	0.70/	74.0	70.0
between Lakewood Ave and Fle 11 Riverside Drive	etcner Dr.	4	U	2,843	28,432	30	35	U	0	1.8%	0.7%	71.0	70.2
between Glendale Blvd. and Fle	atcher Dr	4	12	1.950	19.497	35	40	0	0	1.8%	0.7%	70.3	69.6
12 Riverside Drive	stoller Di	7	12	1,550	10,401	33	40	U	U	1.070	0.770	70.5	03.0
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				2,000	20,010	00		ŭ	·	1.070	0.1 70		00.0
Between Glendale Ave and Flet	cher 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 Glend	ale 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 Ed	dward 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 Cas	sitas 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 Carillo	on 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 Carillo	on St	2	0	421	4,212	35	20	0	0	1.8%	0.7%	65.9	65.2



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

Background Information

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels. (1)Existing, (2)Existing with Project, (3)Future without project, and (4)Future with Project The Mobility Group, December 15, 2017.

CNEL:

Analysis Scenario(s): Source of Traffic Volumes:

Community Noise Descriptor:

Traffic Noise Levels													
Analysis Condition				Peak		Design	Dist. from		Barrier	Vehic	le Mix	Peak Hour	24-Hour
Roadway Name			Median	Hour	ADT	Speed	Center to	Alpha	Attn.	Medium	Heavy	dB(A)	dB(A)
Roadway Segment	Land Use	Lanes	Width	Volume	Volume ¹	(mph)	Receptor ²	Factor	dB(A)	Trucks	Trucks	Leg	CNEL
Future without Alternative (2023) 1 1 Fletcher Drive	Traffic Volumes												
between Ave 34 and Estara	Avo	2	12	1,259	12,590	35	35	0	0	1.8%	0.7%	68.3	67.6
2 Fletcher Drive	Ave	2	12	1,209	12,590	33	33	U	U	1.070	0.770	06.3	07.0
between Estara Avenue and	1 San Fernando Road	4	12	1,814	18,140	35	35	0	0	1.8%	0.7%	71.0	70.3
3 Fletcher Drive	2 Carr Ciriana Noad	-	12	1,014	10,140	00	00	o	Ü	1.070	0.1 70	71.0	70.0
between San Fernando Roa	ad 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 a	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 F	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	d 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 La	akewood 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	d Fletcher Dr.	4	0	837	8,370	30	35	0	0	1.8%	0.7%	65.7	64.9
11 Riverside Drive	4 Flotolog De		40	0.400	04.000	0.5	40	•		4.00/	0.70/	70.7	00.0
between Glendale Blvd. and 12 Riverside Drive	a Fletcher Dr	4	12	2,109	21,090	35	40	0	0	1.8%	0.7%	70.7	69.9
Between Fletcher Dr and Gi	ilrov	4	12	2,536	25,360	35	50	0	0	1.8%	0.7%	70.1	69.3
13 San Fernando Road	iii Oy	7	12	2,550	25,500	33	30	U	U	1.070	0.7 70	70.1	03.3
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	1.000.007.00			2,020	20,200		.0	·	·	1.070	0.1 70	00	01
Between Fletcher Dr and Gl	lendale Fwv.	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	d 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 Ca	arillon 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 Ca	arillon St	2	0	63	630	35	20	0	0	1.8%	0.7%	57.7	56.9



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

Background Information

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CNEL:

Analysis Scenario(s): Source of Traffic Volumes:

Community Noise Descriptor:

Traffic Noise Levels													
Analysis Condition				Peak		Design	Dist. from		Barrier	Vehic	le Mix	Peak Hour	24-Hour
Roadway Name			Median	Hour	ADT	Speed	Center to	Alpha	Attn.	Medium	Heavy	dB(A)	dB(A)
Roadway Segment	Land Use	Lanes	Width	Volume	Volume ¹	(mph)	Receptor ²	Factor	dB(A)	Trucks	Trucks	Leg	CNEL
Future with Alternative (2023) Traffic 1 1 Fletcher Drive	Volumes												
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		2	12	1,301	13,011	33	33	U	U	1.070	0.776	00.5	07.7
between Estara Avenue and Sa	in Fernando Road	4	12	1,856	18,561	35	35	0	0	1.8%	0.7%	71.1	70.4
3 Fletcher Drive	iii i cinando reda	7	12	1,000	10,001	00	00	o	Ū	1.070	0.770	,	70.4
between San Fernando Road a	nd 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	3												
between Larga Avenue and SR	R-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 an	d 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 Rive	erside 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 G	lendale 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 Lakev	vood 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 Fle	etcher Dr.	4	0	853	8,533	30	35	0	0	1.8%	0.7%	65.7	65.0
11 Riverside Drive	otalia a Da		40	0.440	04.447	0.5	40	•		4.00/	0.70/	70.7	00.0
between Glendale Blvd. and Fle 12 Riverside Drive	etcner Dr	4	12	2,112	21,117	35	40	0	0	1.8%	0.7%	70.7	69.9
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		4	12	2,550	25,300	33	50	U	U	1.070	0.776	70.1	09.3
Between Glendale Ave and Flet	tcher Ave	4	12	2.660	26.603	25	45	0	0	1.8%	0.7%	67.9	67.1
14 San Fernando Road	Sile 7446	7	12	2,000	20,000	20	40	o	Ü	1.070	0.770	01.5	07.1
Between Fletcher Dr and Glend	lale Fwv.	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 Ed	dward 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 Cas	sitas 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 Carillo	on 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 Carillo	on St	2	0	421	4,212	35	20	0	0	1.8%	0.7%	65.9	65.2



Existing Baseline / Existing with Alternative

Roadway	Existing Baseline 1,156	Existing with Project 1,187	% Alternative [a] 0.865	Project Trips 31	Alternative Trips 27	Existing with Alternative 1,183	Existing Noise Level 67.2	Alternative Noise Level 67.3	Impact 0.1	Significant? (Yes/No) 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

Future Baseline / Future with Alternative		th Alternative				Future with	Future	Future w			
Roadway	Future Baseline 1,259	Future with Proposed Project 1,290	% Alternative [a] 0.865	Project Trips	Alternative Trips 27	Alternative Trips 1,286	Baseline Noise Level 67.6	Alternative Noise Level 67.6	Impact 0.1	Significant? (Yes/No) 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%



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

Background Information

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels. (1)Existing, (2)Existing with Project, (3)Future without project, and (4)Future with Project The Mobility Group, December 15, 2017.

CNEL:

Analysis Scenario(s): Source of Traffic Volumes:

Community Noise Descriptor:

Analysis Condition Peak Design Dist. from Barrier	Vehicle Mix	Peak Hour	24-Hour
Roadway Name Median Hour ADT Speed Center to Alpha Attn. Me	edium Heav	y dB(A)	dB(A)
Roadway Segment Land Use Lanes Width Volume Volume (mph) Receptor ² Factor dB(A) Tru	ucks Truck	s L _{eq}	CNEL
Existing (2016) Traffic Volumes			
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
between Ave 34 and Estara Ave 2 12 1,156 11,560 35 35 0 0 1. 2 Fletcher Drive	.6% 0.7%	00.0	07.2
=	.8% 0.7%	70.7	69.9
between Estata Avenue and San Pentando Road 4 12 1,079 10,790 39 30 0 0 1. 3 Fletcher Drive	.070 0.770	70.7	09.9
	.8% 0.7%	71.2	70.4
4 Fletcher Drive	.070 0.170	71.2	70.4
	.8% 0.7%	70.1	69.3
5 Fletcher Drive	.070 0.170		00.0
	.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.			
	.8% 0.7%	72.3	71.5
10 Glendale Blvd			
	.8% 0.7%	70.3	69.5
11 Riverside Drive			
	.8% 0.7%	70.3	69.6
12 Riverside Drive			
	.8% 0.7%	69.8	69.0
13 San Fernando Road			
	.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.	00/ 0.70/	07.7	00.0
Between Fletcher Dr and Glendale Fwy. 5 0 2,513 25,130 25 45 0 0 1. 15 San Fernando Road	.8% 0.7%	67.7	66.9
	.8% 0.7%	71.7	70.9
between dientidate rwy and Edward way 4 0 2,462 24,620 35 35 0 0 1.	.070 0.770	11.7	70.9
	.8% 0.7%	55.2	54.4
Deliveril Le Cleue Ave and Cashas Ave 2 0 12 110 23 20 0 0 1. 17 Larga Ave	.0% 0.7%	35.2	34.4
	.8% 0.7%	57.5	56.7
18 Le Clede Ave	.5,5 5.770	. 57.5	50.7
	.8% 0.7%	57.7	56.9



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

Background Information

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels. (1)Existing, (2)Existing with Project, (3)Future without project, and (4)Future with Project The Mobility Group, December 15, 2017.

CNEL:

Analysis Scenario(s): Source of Traffic Volumes:

Community Noise Descriptor:

Traffic Noise Levels													
Analysis Condition				Peak		Design	Dist. from		Barrier	Vehic	le Mix	Peak Hour	24-Hour
Roadway Name			Median	Hour	ADT	Speed	Center to	Alpha	Attn.	Medium	Heavy	dB(A)	dB(A)
Roadway Segment	Land Use	Lanes	Width	Volume	Volume ¹	(mph)	Receptor ²	Factor	dB(A)	Trucks	Trucks	Leg	CNEL
Existing with Alternative (2016) Traf	ffic Volumes												
1 Fletcher Drive between Ave 34 and Estara A		2	10	1,183	11.828	35	35	0	0	1.8%	0.7%	68.1	67.3
2 Fletcher Drive	ave	2	12	1,103	11,020	35	35	U	U	1.0%	U.7%	00.1	67.3
between Estara Avenue and S	San Fernando Poad	4	12	1,702	17,018	35	35	0	0	1.8%	0.7%	70.7	70.0
3 Fletcher Drive	Sair i emando road	7	12	1,702	17,010	33	33	U	U	1.070	0.770	70.7	70.0
between San Fernando Road	d 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	and Ed Glodo / Worldo		·	2,020	20,210	00	00	·	·	1.070	0.1 70		7 0.0
between La Clede Avenue an	nd 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 S	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 a	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 Ri	iverside 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 Lak	kewood Ave	4	12	2,435	24,348	35	35	0	0	1.8%	0.7%	72.3	71.5
10 Glendale Blvd											. =0/		
between Lakewood Ave and F 11 Riverside Drive	Fletcher Dr.	4	0	2,693	26,927	30	35	0	0	1.8%	0.7%	70.7	70.0
between Glendale Blvd. and F	Flatabas Da	4	12	1.949	19.487	35	40	0	0	1.8%	0.7%	70.3	69.6
12 Riverside Drive	Fletcher Dr	4	12	1,949	19,467	35	40	U	U	1.0%	0.7%	70.3	09.0
Between Fletcher Dr and Gilro	201/	4	12	2,510	25,101	35	50	0	0	1.8%	0.7%	70.1	69.3
13 San Fernando Road	oy .	-	12	2,010	20,101	00	50	o	Ū	1.070	0.1 /0	70.1	00.0
Between Glendale Ave and Fl	letcher 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 Glei	ndale 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 C	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 Cari	rillon 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 Cari	rillon St	2	0	291	2,914	35	20	0	0	1.8%	0.7%	64.3	63.6



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

Background Information

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels. (1)Existing, (2)Existing with Project, (3)Future without project, and (4)Future with Project The Mobility Group, December 15, 2017. Model Description:

CNEL:

Analysis Scenario(s): Source of Traffic Volumes:

Community Noise Descriptor:

Analysis Condition				Peak		Design	Dist. from		Barrier		le Mix	Peak Hour	
Roadway Name			Median	Hour	ADT	Speed	Center to	Alpha	Attn.	Medium	Heavy	dB(A)	dB(A)
Roadway Segment	Land Use	Lanes	Width	Volume	Volume ¹	(mph)	Receptor ²	Factor	dB(A)	Trucks	Trucks	L _{eq}	CNEL
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 I	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 La	rga 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 I	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 Riversi	ide 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 Gler	ndale 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 Lakewo	od 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 Fletc	her Dr.	4	0	837	8,370	30	35	0	0	1.8%	0.7%	65.7	64.9
11 Riverside Drive											. =0/		
between Glendale Blvd. and Fletc	her 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	0.500	05.000	0.5	50	0	0	4.00/	0.70/	70.1	69.3
13 San Fernando Road		4	12	2,536	25,360	35	50	U	U	1.8%	0.7%	70.1	69.3
Between Glendale Ave and Fletch	or Ava	4	12	2,625	26,250	25	45	0	0	1.8%	0.7%	67.9	67.1
14 San Fernando Road	lei Ave	4	12	2,025	20,230	25	45	U	U	1.070	0.776	67.9	07.1
Between Fletcher Dr and Glendale	a Eway	5	0	2.799	27.990	25	45	0	0	1.8%	0.7%	68.1	67.4
15 San Fernando Road	e i wy.	3	U	2,133	21,550	25	43	U	U	1.070	0.770	00.1	07.4
Between Glendaale Fwy and Edw	ard Way	4	0	2,845	28,450	35	35	0	0	1.8%	0.7%	72.3	71.5
16 Carillon Street		•	•	_,5.5	20,.00			•	·	,	J., 73	. 2.0	
Between Le Clede Ave and Casita	as Ave	2	0	72	720	25	20	0	0	1.8%	0.7%	55.2	54.5
17 Larga Ave		-	·		. 20		_0	,	ŭ		2.1 70	-5.2	2 1.0
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		2	0	63	630	35	20	0	0	1.8%	0.7%	57.7	56.9



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

Background Information

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CNEL:

Analysis Scenario(s): Source of Traffic Volumes:

Community Noise Descriptor:

Analysis Condition				Peak		Design	Dist. from		Barrier	Vehic	le Mix	Peak Hour	24-Hour
Roadway Name			Median	Hour	ADT	Speed	Center to	Alpha	Attn.	Medium	Heavy	dB(A)	dB(A)
Roadway Segment	Land Use	Lanes	Width	Volume	Volume ¹	(mph)	Receptor ²	Factor	dB(A)	Trucks	Trucks	Leq	CNEL
Future with Alternative (2023) Traffic Vo	nlumes												
1 Fletcher Drive	Sidilies												
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	d 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 La	arga 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	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 Rivers	side 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 Glei	ndale 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 Lakewo	ood 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 Fleto	cher Dr.	4	0	847	8,474	30	35	0	0	1.8%	0.7%	65.7	64.9
11 Riverside Drive	- L D -		40	0.444	04.407	0.5	40	•	•	4.00/	0.70/	70.7	00.0
between Glendale Blvd. and Fleto	cner 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	25.200	35	50	0	0	1.8%	0.7%	70.1	69.3
13 San Fernando Road		4	12	2,536	25,360	35	50	U	U	1.0%	0.7%	70.1	69.3
Between Glendale Ave and Fletch	hor Avo	4	12	2,647	26,475	25	45	0	0	1.8%	0.7%	67.9	67.1
14 San Fernando Road	ilei Ave	4	12	2,047	20,473	25	45	U	U	1.070	0.776	67.9	07.1
Between Fletcher Dr and Glendal	le Eway	5	0	2.862	28.621	25	45	0	0	1.8%	0.7%	68.2	67.5
15 San Fernando Road	ie i wy.	3	U	2,002	20,021	25	43	U	U	1.070	0.770	00.2	07.5
Between Glendaale Fwy and Edw	vard Wav	4	0	2,878	28,779	35	35	0	0	1.8%	0.7%	72.3	71.5
16 Carillon Street	raid rray	•	·	2,0.0	20,110	00	00	·	·	1.070	0.1 70	12.0	
Between Le Clede Ave and Casita	as Ave	2	0	144	1,438	25	20	0	0	1.8%	0.7%	58.3	57.5
17 Larga Ave	407.110	-	·		1,100		20	·	·	1.070	0.1 70	00.0	01.0
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