

Appendix I.4

Supplemental Off-Site (Traffic) Noise Analysis

To	Stephanie Eyestone-Jones, Eyestone Environmental	Project number	2016123
		File reference	M_Promenade_120718
From	Sean Bui, P.E.	Date	December 13, 2018
Subject	Promenade 2035 Project Supplemental Off-Site (Traffic) Noise Analysis		

This noise study memorandum provides the results of a supplemental off-site (traffic) noise analysis associated with the Entertainment and Sports Center for the Promenade 2035 Project (Project). The noise analysis was performed to determine whether the proposed additional traffic operational measures for the Event Management Plan (Updated EMP) would reduce the off-site traffic operational noise impacts, identified in the Project Draft Supplemental Environment Impact Report (DSEIR) for sold-out (15,000 seat) events ending during the nighttime, to a less than significant level. The additional traffic noise impacts analysis was performed using the same procedures as described in the DSEIR and the updated traffic volumes provided in the Traffic Technical Memo prepared by Gibson Transportation Consulting, Inc.¹

As provided in Section IV.H Noise of the DSEIR, the Project-related traffic would result in significant impacts, during the post-event hour (nighttime hour), along the roadway segment of Oxnard Street between Topanga Canyon Boulevard and Owensmouth Avenue, for sold-out (15,000 seat) events under the following conditions:

- “Future Plus Project” with Entertainment and Sports Center, Table IV.H-26
- “Existing Plus Project” with Entertainment and Sports Center, Table IV.H-28
- “Cumulative” with Entertainment and Sports Center, Table IV.H-31

Table 1 (on page 2) presents the estimated traffic noise levels (during the post-event nighttime hour) along the roadway segment of Oxnard Street (between Topanga Canyon Boulevard and Owensmouth Avenue) under the “Future Plus Project”, “Existing Plus Project”, and the “Cumulative” conditions. Table 1 also includes the estimated traffic noise levels from the DSEIR for comparison. As indicated in Table 1, the estimated noise levels with the Updated EMP would be lowered as compared to the DSEIR and the maximum noise increase would be below the applicable 5 dBA significance threshold. Therefore, noise impacts associated with the off-site traffic, for a sold-out (15,000 seat) events would be reduced to a less than significant level, with implementation of the Updated EMP, Project Design Feature K-6. In addition, there would not be any new significant noise impacts from the redistributed traffic volumes associated with the Updated EMP. Furthermore, as provided in Project Alternatives analysis (DSEIR Section V. Alternatives), the off-site traffic noise impacts for Alternative 5 would be less than significant for both Option 1 (10,000 seat) and Option 2 (7,500 seat). Therefore, the traffic mitigation measures would only be implemented for events with more than 10,000 attendees.

¹ Gibson Transportation Consulting, Inc., Technical Memo “Additional Late-Night Operational Measures to the Event Management Plan, Project Design Feature K-6 for the Promenade 2035 DSEIR”, December 2018

Table 1
Roadway Traffic Noise Impacts – Oxnard Street (between Topanga Canyon Boulevard and Owensmouth Avenue)

Roadway Segment	Calculated Traffic Noise Levels (Nighttime), ^a Leq dBA No Project/Plus Project				Increase in Noise Levels due to Project, Leq dBA				Significant Impact? ^b	
	Weekday		Weekend		Weekday		Weekend			
	DSEIR	Updated EMP	DSEIR	Updated EMP	DSEIR	Updated EMP	DSEIR	Updated EMP	DSEIR	Updated EMP
<i>Future Plus Project Conditions</i>										
Oxnard Street – Between Topanga Canyon Blvd. and Owensmouth Ave.	61.7/66.4	61.7/66.0	62.1/67.2	62.1/66.5	4.7	4.3	5.1	4.4	Yes	No
<i>Existing Plus Project Conditions</i>										
Oxnard Street – Between Topanga Canyon Blvd. and Owensmouth Ave.	61.3/66.3	61.3/65.9	61.8/67.1	61.8/66.4	5.0	4.6	5.3	4.6	Yes	No
<i>Cumulative Conditions</i>										
Oxnard Street – Between Topanga Canyon Blvd. and Owensmouth Ave.	61.3/66.6	61.3/66.2	61.8/67.4	61.8/66.7	5.3	4.9	5.6	4.9	Yes	No

^a Detailed calculation worksheets are included at the end of this memorandum.

^b If the estimated noise levels exceed the nighttime Leq by 5 dBA or exceed the CNEL by 3 dBA (if the noise level falls within the normally or clearly unacceptable land use category) or by 5 dBA (if the noise levels falls within the acceptable land use category), a significant noise impact is identified.

Source: AES, 2018.

Off-Site Traffic Noise Calculations - WITH ESC (Updated EMP)

Project: Westfield Promenade Project

Traffic Distribution as % of ADT				
Vehicle Type	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

EXISTING CONDITIONS

WEEKDAY - Nighttime Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	Barrier Atten.	Site Adjust., dBA	Site	Nighttime
								Hour,	Leq**
Shoup Avenue									
- Between Vanowen St. and Victory Blvd.	70	10	45	35	569	0	0		62.9
- Between Victory Blvd. and Oxnard St.	60	10	40	35	550	0	0		63.3
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	496	0	0		62.9
- Between Burbank Blvd. and Ventura Blvd.	60	10	40	35	454	0	0		62.5
Topanga Boulevard									
- Between Vanowen St. and Victory Blvd.	80	10	50	35	762	0	0		63.7
- Between Victory Blvd. and Erwin St.	90	10	55	35	815	0	0		63.5
- Between Erwin St. and Oxnard St.	80	10	50	35	826	0	0		64.1
- Between Oxnard St. and Burbank Blvd.	90	10	55	35	878	0	0		63.8
Owensmouth Avenue									
- Between Vanowen St. and Victory Blvd.	50	10	35	35	434	0	0		62.9
- Between Victory Blvd. and Erwin St.	60	10	40	35	436	0	0		62.3
- Between Erwin St. and Oxnard St.	60	10	40	35	292	0	0		60.6
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	250	0	0		59.9
Canoga Avenue									
- Between Vanowen St. and Victory Blvd.	50	10	35	35	662	0	0		64.7
- Between Victory Blvd. and Erwin St.	60	10	40	35	737	0	0		64.6
- Between Erwin St. and Oxnard St.	60	10	40	35	769	0	0		64.8
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	752	0	0		64.7
Desoto Avenue									
- Between Vanowen St. and Victory Blvd.	50	10	35	35	630	0	0		64.5

EXISTING CONDITIONS WEEKDAY - Nighttime Roadway Segment	Roadway Width*, ft	Distance to	Distance to	Speed mph	Traffic Volume PHV	Barrier Atten.	Site	Nighttime
		Edge of Roadway, ft	Centerline, feet				Adjust., dBA	Hour, Leq**
- Between Victory Blvd. and Erwin St.	60	10	40	35	691	0	0	64.3
- Between Erwin St. and Oxnard St.	60	10	40	35	747	0	0	64.6
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	811	0	0	65.0
Vanowen Street								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	424	0	0	63.5
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	407	0	0	62.0
- Between Topanga Blvd. and Canoga Ave.	60	10	40	35	461	0	0	62.5
- Between Canoga Ave. and Desoto Ave.	50	10	35	35	559	0	0	64.0
Victory Boulevard								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	507	0	0	64.3
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	508	0	0	63.0
- Between Topanga Blvd. and Canoga Ave.	60	10	40	35	648	0	0	64.0
- Between Canoga Ave. and Desoto Ave.	50	10	35	35	756	0	0	65.3
Erwin Street								
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	192	0	0	58.7
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	256	0	0	60.0
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	233	0	0	60.2
Oxnard Street								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	527	0	0	64.4
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	475	0	0	62.7
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	349	0	0	61.3
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	313	0	0	61.5
Burbank Boulevard								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	168	0	0	59.5
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	313	0	0	60.9
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	423	0	0	62.2
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	355	0	0	62.0

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.

Off-Site Traffic Noise Calculations - WITH ESC (Updated EMP)

Project: Westfield Promenade Project

Traffic Distribution as % of ADT				
Vehicle Type	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

EXISTING + PROJECT CONDITIONS

WEEKDAY - Nighttime		Distance to	Distance to		Traffic		Site	Nighttime
Roadway Segment	Roadway Width*, ft	Edge of Roadway, ft	Centerline, feet	Speed mph	Volume PHV	Barrier Atten.	Adjust., dBA	Hour, Leq**
Shoup Avenue								
- Between Vanowen St. and Victory Blvd.	70	10	45	35	580	0	0	62.9
- Between Victory Blvd. and Oxnard St.	60	10	40	35	562	0	0	63.4
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	507	0	0	63.0
- Between Burbank Blvd. and Ventura Blvd.	60	10	40	35	466	0	0	62.6
Topanga Boulevard								
- Between Vanowen St. and Victory Blvd.	80	10	50	35	1,245	0	0	65.9
- Between Victory Blvd. and Erwin St.	90	10	55	35	1,702	0	0	66.7
- Between Erwin St. and Oxnard St.	80	10	50	35	2,067	0	0	68.1
- Between Oxnard St. and Burbank Blvd.	90	10	55	35	2,234	0	0	67.9
Owensmouth Avenue								
- Between Vanowen St. and Victory Blvd.	50	10	35	35	676	0	0	64.8
- Between Victory Blvd. and Erwin St.	60	10	40	35	946	0	0	65.7
- Between Erwin St. and Oxnard St.	60	10	40	35	299	0	0	60.7
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	258	0	0	60.0
Canoga Avenue								
- Between Vanowen St. and Victory Blvd.	50	10	35	35	714	0	0	65.0
- Between Victory Blvd. and Erwin St.	60	10	40	35	904	0	0	65.5
- Between Erwin St. and Oxnard St.	60	10	40	35	890	0	0	65.4
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	1,471	0	0	67.6
Desoto Avenue								
- Between Vanowen St. and Victory Blvd.	50	10	35	35	679	0	0	64.8

EXISTING + PROJECT CONDITIONS

WEEKDAY - Nighttime Roadway Segment	Roadway Width*, ft	Distance to	Distance to	Speed mph	Traffic Volume PHV	Barrier Atten.	Site	Nighttime
		Edge of Roadway, ft	Centerline, feet				Adjust., dBA	Hour, Leq**
- Between Victory Blvd. and Erwin St.	60	10	40	35	875	0	0	65.3
- Between Erwin St. and Oxnard St.	60	10	40	35	1,060	0	0	66.2
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	1,169	0	0	66.6
Vanowen Street								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	507	0	0	64.3
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	489	0	0	62.8
- Between Topanga Blvd. and Canoga Ave.	60	10	40	35	525	0	0	63.1
- Between Canoga Ave. and Desoto Ave.	50	10	35	35	685	0	0	64.9
Victory Boulevard								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	636	0	0	65.2
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	631	0	0	63.9
- Between Topanga Blvd. and Canoga Ave.	60	10	40	35	1,024	0	0	66.0
- Between Canoga Ave. and Desoto Ave.	50	10	35	35	1,172	0	0	67.2
Erwin Street								
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	225	0	0	59.4
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	1,333	0	0	67.1
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	669	0	0	64.8
Oxnard Street								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	580	0	0	64.8
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	547	0	0	63.3
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	1,002	0	0	65.9
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	1,079	0	0	66.8
Burbank Boulevard								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	212	0	0	60.5
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	653	0	0	64.0
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	420	0	0	62.1
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	355	0	0	62.0

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.

Off-Site Traffic Noise Calculations - WITH ESC (Updated EMP)

Project: Westfield Promenade Project

Traffic Distribution as % of ADT				
Vehicle Type	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

FUTURE NO PROJECT CONDITIONS

WEEKDAY - Nighttime Roadway Segment	Distance to		Speed mph	Traffic Volume PHV	Barrier Atten.	Site Adjust., dBA	Nighttime Hour, Leq**
	Roadway Width*, ft	Edge of Roadway, ft					
Shoup Avenue							
- Between Vanowen St. and Victory Blvd.	70	10	45	35	588	0	63.0
- Between Victory Blvd. and Oxnard St.	60	10	40	35	568	0	63.4
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	512	0	63.0
- Between Burbank Blvd. and Ventura Blvd.	60	10	40	35	482	0	62.7
Topanga Boulevard							
- Between Vanowen St. and Victory Blvd.	80	10	50	35	781	0	63.8
- Between Victory Blvd. and Erwin St.	90	10	55	35	840	0	63.6
- Between Erwin St. and Oxnard St.	80	10	50	35	854	0	64.2
- Between Oxnard St. and Burbank Blvd.	90	10	55	35	912	0	64.0
Owensmouth Avenue							
- Between Vanowen St. and Victory Blvd.	50	10	35	35	477	0	63.3
- Between Victory Blvd. and Erwin St.	60	10	40	35	472	0	62.6
- Between Erwin St. and Oxnard St.	60	10	40	35	323	0	61.0
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	290	0	60.5
Canoga Avenue							
- Between Vanowen St. and Victory Blvd.	50	10	35	35	699	0	64.9
- Between Victory Blvd. and Erwin St.	60	10	40	35	761	0	64.7
- Between Erwin St. and Oxnard St.	60	10	40	35	814	0	65.0
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	800	0	64.9
Desoto Avenue							
- Between Vanowen St. and Victory Blvd.	50	10	35	35	661	0	64.7

FUTURE NO PROJECT CONDITIONS

WEEKDAY - Nighttime Roadway Segment	Roadway Width*, ft	Distance to	Distance to	Speed mph	Traffic Volume PHV	Barrier Atten.	Site	Nighttime
		Edge of Roadway, ft	Centerline, feet				Adjust., dBA	Hour, Leq**
- Between Victory Blvd. and Erwin St.	60	10	40	35	724	0	0	64.5
- Between Erwin St. and Oxnard St.	60	10	40	35	803	0	0	64.9
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	864	0	0	65.3
Vanowen Street								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	458	0	0	63.8
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	432	0	0	62.3
- Between Topanga Blvd. and Canoga Ave.	60	10	40	35	490	0	0	62.8
- Between Canoga Ave. and Desoto Ave.	50	10	35	35	634	0	0	64.5
Victory Boulevard								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	521	0	0	64.4
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	523	0	0	63.1
- Between Topanga Blvd. and Canoga Ave.	60	10	40	35	694	0	0	64.3
- Between Canoga Ave. and Desoto Ave.	50	10	35	35	835	0	0	65.7
Erwin Street								
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	205	0	0	59.0
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	297	0	0	60.6
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	277	0	0	60.9
Oxnard Street								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	556	0	0	64.7
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	494	0	0	62.8
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	376	0	0	61.7
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	337	0	0	61.8
Burbank Boulevard								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	177	0	0	59.7
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	326	0	0	61.0
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	470	0	0	62.6
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	410	0	0	62.6

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.

Off-Site Traffic Noise Calculations - WITH ESC (Updated EMP)

Project: Westfield Promenade Project

Traffic Distribution as % of ADT				
Vehicle Type	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

FUTURE + PROJECT CONDITIONS

WEEKDAY - Nighttime		Distance to	Distance to		Traffic		Site	Nighttime
Roadway Segment	Roadway Width*, ft	Edge of Roadway, ft	Centerline, feet	Speed mph	Volume PHV	Barrier Atten.	Adjust., dBA	Hour, Leq**
Shoup Avenue								
- Between Vanowen St. and Victory Blvd.	70	10	45	35	599	0	0	63.1
- Between Victory Blvd. and Oxnard St.	60	10	40	35	580	0	0	63.5
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	523	0	0	63.1
- Between Burbank Blvd. and Ventura Blvd.	60	10	40	35	493	0	0	62.8
Topanga Boulevard								
- Between Vanowen St. and Victory Blvd.	80	10	50	35	1,264	0	0	65.9
- Between Victory Blvd. and Erwin St.	90	10	55	35	1,727	0	0	66.8
- Between Erwin St. and Oxnard St.	80	10	50	35	2,095	0	0	68.1
- Between Oxnard St. and Burbank Blvd.	90	10	55	35	2,268	0	0	68.0
Owensmouth Avenue								
- Between Vanowen St. and Victory Blvd.	50	10	35	35	720	0	0	65.1
- Between Victory Blvd. and Erwin St.	60	10	40	35	982	0	0	65.8
- Between Erwin St. and Oxnard St.	60	10	40	35	330	0	0	61.1
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	298	0	0	60.6
Canoga Avenue								
- Between Vanowen St. and Victory Blvd.	50	10	35	35	751	0	0	65.3
- Between Victory Blvd. and Erwin St.	60	10	40	35	928	0	0	65.6
- Between Erwin St. and Oxnard St.	60	10	40	35	936	0	0	65.6
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	1,519	0	0	67.7
Desoto Avenue								
- Between Vanowen St. and Victory Blvd.	50	10	35	35	710	0	0	65.0

FUTURE + PROJECT CONDITIONS

WEEKDAY - Nighttime Roadway Segment	Roadway Width*, ft	Distance to	Distance to	Speed mph	Traffic Volume PHV	Barrier Atten.	Site	Nighttime
		Edge of Roadway, ft	Centerline, feet				Adjust., dBA	Hour, Leq**
- Between Victory Blvd. and Erwin St.	60	10	40	35	908	0	0	65.5
- Between Erwin St. and Oxnard St.	60	10	40	35	1,116	0	0	66.4
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	1,221	0	0	66.8
Vanowen Street								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	541	0	0	64.5
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	514	0	0	63.0
- Between Topanga Blvd. and Canoga Ave.	60	10	40	35	553	0	0	63.3
- Between Canoga Ave. and Desoto Ave.	50	10	35	35	760	0	0	65.3
Victory Boulevard								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	650	0	0	65.3
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	647	0	0	64.0
- Between Topanga Blvd. and Canoga Ave.	60	10	40	35	1,070	0	0	66.2
- Between Canoga Ave. and Desoto Ave.	50	10	35	35	1,251	0	0	67.5
Erwin Street								
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	239	0	0	59.7
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	1,375	0	0	67.3
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	714	0	0	65.0
Oxnard Street								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	609	0	0	65.0
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	566	0	0	63.4
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	1,030	0	0	66.0
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	1,103	0	0	66.9
Burbank Boulevard								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	221	0	0	60.6
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	666	0	0	64.1
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	466	0	0	62.6
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	411	0	0	62.6

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.

Off-Site Traffic Noise Calculations - WITH ESC (Updated EMP)

Project: Westfield Promenade Project

Traffic Distribution as % of ADT				
Vehicle Type	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

FUTURE CUMULATIVE + PROJECT CONDITIONS

WEEKDAY - Nighttime		Distance to	Distance to		Traffic		Site	Nighttime
Roadway Segment	Roadway Width*, ft	Edge of Roadway, ft	Centerline, feet	Speed mph	Volume PHV	Barrier Atten.	Adjust., dBA	Hour, Leq**
Shoup Avenue								
- Between Vanowen St. and Victory Blvd.	70	10	45	35	581	0	0	62.9
- Between Victory Blvd. and Oxnard St.	60	10	40	35	594	0	0	63.6
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	552	0	0	63.3
- Between Burbank Blvd. and Ventura Blvd.	60	10	40	35	530	0	0	63.1
Topanga Boulevard								
- Between Vanowen St. and Victory Blvd.	80	10	50	35	1,281	0	0	66.0
- Between Victory Blvd. and Erwin St.	90	10	55	35	1,723	0	0	66.8
- Between Erwin St. and Oxnard St.	80	10	50	35	2,016	0	0	67.9
- Between Oxnard St. and Burbank Blvd.	90	10	55	35	2,192	0	0	67.8
Owensmouth Avenue								
- Between Vanowen St. and Victory Blvd.	50	10	35	35	732	0	0	65.1
- Between Victory Blvd. and Erwin St.	60	10	40	35	1,005	0	0	65.9
- Between Erwin St. and Oxnard St.	60	10	40	35	347	0	0	61.3
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	309	0	0	60.8
Canoga Avenue								
- Between Vanowen St. and Victory Blvd.	50	10	35	35	746	0	0	65.2
- Between Victory Blvd. and Erwin St.	60	10	40	35	956	0	0	65.7
- Between Erwin St. and Oxnard St.	60	10	40	35	889	0	0	65.4
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	1,529	0	0	67.7
Desoto Avenue								
- Between Vanowen St. and Victory Blvd.	50	10	35	35	774	0	0	65.4

FUTURE CUMULATIVE + PROJECT CONDITIONS WEEKDAY - Nighttime Roadway Segment	Roadway Width*, ft	Distance to	Distance to	Speed mph	Traffic Volume PHV	Barrier Atten.	Site	Nighttime
		Edge of Roadway, ft	Centerline, feet				Adjust., dBA	Hour, Leq**
- Between Victory Blvd. and Erwin St.	60	10	40	35	968	0	0	65.8
- Between Erwin St. and Oxnard St.	60	10	40	35	1,155	0	0	66.5
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	1,250	0	0	66.9
Vanowen Street								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	535	0	0	64.5
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	518	0	0	63.0
- Between Topanga Blvd. and Canoga Ave.	60	10	40	35	549	0	0	63.3
- Between Canoga Ave. and Desoto Ave.	50	10	35	35	745	0	0	65.2
Victory Boulevard								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	682	0	0	65.5
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	707	0	0	64.4
- Between Topanga Blvd. and Canoga Ave.	60	10	40	35	1,216	0	0	66.7
- Between Canoga Ave. and Desoto Ave.	50	10	35	35	1,515	0	0	68.3
Erwin Street								
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	276	0	0	60.3
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	1,339	0	0	67.2
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	718	0	0	65.1
Oxnard Street								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	583	0	0	64.9
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	582	0	0	63.5
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	1,063	0	0	66.2
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	1,088	0	0	66.9
Burbank Boulevard								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	225	0	0	60.7
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	669	0	0	64.2
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	463	0	0	62.6
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	397	0	0	62.5

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.

Off-Site Traffic Noise Calculations - WITH ESC (Updated EMP)

Project: Westfield Promenade Project

Traffic Distribution as % of ADT				
Vehicle Type	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

EXISTING CONDITIONS

WEEKEND - Nighttime Roadway Segment	Distance to Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	Barrier Atten.	Site	Nighttime
							Adjust., dBA	Hour, Leq**
Shoup Avenue								
- Between Vanowen St. and Victory Blvd.	70	10	45	35	573	0	0	62.9
- Between Victory Blvd. and Oxnard St.	60	10	40	35	628	0	0	63.9
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	593	0	0	63.6
- Between Burbank Blvd. and Ventura Blvd.	60	10	40	35	575	0	0	63.5
Topanga Boulevard								
- Between Vanowen St. and Victory Blvd.	80	10	50	35	1,283	0	0	66.0
- Between Victory Blvd. and Erwin St.	90	10	55	35	1,432	0	0	66.0
- Between Erwin St. and Oxnard St.	80	10	50	35	1,454	0	0	66.5
- Between Oxnard St. and Burbank Blvd.	90	10	55	35	1,532	0	0	66.3
Owensmouth Avenue								
- Between Vanowen St. and Victory Blvd.	50	10	35	35	485	0	0	63.4
- Between Victory Blvd. and Erwin St.	60	10	40	35	416	0	0	62.1
- Between Erwin St. and Oxnard St.	60	10	40	35	292	0	0	60.6
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	209	0	0	59.1
Canoga Avenue								
- Between Vanowen St. and Victory Blvd.	50	10	35	35	768	0	0	65.4
- Between Victory Blvd. and Erwin St.	60	10	40	35	934	0	0	65.6
- Between Erwin St. and Oxnard St.	60	10	40	35	768	0	0	64.8
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	588	0	0	63.6
Desoto Avenue								
- Between Vanowen St. and Victory Blvd.	50	10	35	35	770	0	0	65.4

EXISTING CONDITIONS WEEKEND - Nighttime Roadway Segment	Roadway Width*, ft	Distance to	Distance to	Speed mph	Traffic Volume PHV	Barrier Atten.	Site	Nighttime
		Edge of Roadway, ft	Centerline, feet				Adjust., dBA	Hour, Leq**
- Between Victory Blvd. and Erwin St.	60	10	40	35	811	0	0	65.0
- Between Erwin St. and Oxnard St.	60	10	40	35	810	0	0	65.0
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	883	0	0	65.4
Vanowen Street								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	673	0	0	65.5
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	657	0	0	64.1
- Between Topanga Blvd. and Canoga Ave.	60	10	40	35	759	0	0	64.7
- Between Canoga Ave. and Desoto Ave.	50	10	35	35	842	0	0	65.8
Victory Boulevard								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	888	0	0	66.7
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	874	0	0	65.3
- Between Topanga Blvd. and Canoga Ave.	60	10	40	35	993	0	0	65.9
- Between Canoga Ave. and Desoto Ave.	50	10	35	35	981	0	0	66.4
Erwin Street								
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	198	0	0	58.9
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	324	0	0	61.0
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	293	0	0	61.2
Oxnard Street								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	202	0	0	60.3
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	300	0	0	60.7
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	385	0	0	61.8
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	464	0	0	63.2
Burbank Boulevard								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	193	0	0	60.1
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	364	0	0	61.5
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	317	0	0	60.9
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	360	0	0	62.1

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.

Off-Site Traffic Noise Calculations - WITH ESC (Updated EMP)

Project: Westfield Promenade Project

Traffic Distribution as % of ADT				
Vehicle Type	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

EXISTING + PROJECT CONDITIONS

WEEKEND - Nighttime Roadway Segment	Distance to		Speed mph	Traffic Volume PHV	Barrier Atten.	Site Adjust., dBA	Nighttime Hour, Leq**
	Roadway Width*, ft	Edge of Roadway, ft					
Shoup Avenue							
- Between Vanowen St. and Victory Blvd.	70	10	45	35	584	0	63.0
- Between Victory Blvd. and Oxnard St.	60	10	40	35	641	0	64.0
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	608	0	63.7
- Between Burbank Blvd. and Ventura Blvd.	60	10	40	35	593	0	63.6
Topanga Boulevard							
- Between Vanowen St. and Victory Blvd.	80	10	50	35	1,892	0	67.7
- Between Victory Blvd. and Erwin St.	90	10	55	35	2,622	0	68.6
- Between Erwin St. and Oxnard St.	80	10	50	35	3,103	0	69.8
- Between Oxnard St. and Burbank Blvd.	90	10	55	35	3,255	0	69.5
Owensmouth Avenue							
- Between Vanowen St. and Victory Blvd.	50	10	35	35	789	0	65.5
- Between Victory Blvd. and Erwin St.	60	10	40	35	1,058	0	66.1
- Between Erwin St. and Oxnard St.	60	10	40	35	311	0	60.8
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	230	0	59.5
Canoga Avenue							
- Between Vanowen St. and Victory Blvd.	50	10	35	35	829	0	65.7
- Between Victory Blvd. and Erwin St.	60	10	40	35	1,215	0	66.7
- Between Erwin St. and Oxnard St.	60	10	40	35	995	0	65.9
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	1,485	0	67.6
Desoto Avenue							
- Between Vanowen St. and Victory Blvd.	50	10	35	35	833	0	65.7

EXISTING + PROJECT CONDITIONS WEEKEND - Nighttime Roadway Segment	Roadway Width*, ft	Distance to	Distance to	Speed mph	Traffic Volume PHV	Barrier Atten.	Site	Nighttime
		Edge of Roadway, ft	Centerline, feet				Adjust., dBA	Hour, Leq**
- Between Victory Blvd. and Erwin St.	60	10	40	35	1,038	0	0	66.1
- Between Erwin St. and Oxnard St.	60	10	40	35	1,200	0	0	66.7
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	1,329	0	0	67.1
Vanowen Street								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	779	0	0	66.1
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	762	0	0	64.7
- Between Topanga Blvd. and Canoga Ave.	60	10	40	35	844	0	0	65.2
- Between Canoga Ave. and Desoto Ave.	50	10	35	35	1,003	0	0	66.5
Victory Boulevard								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	1,056	0	0	67.4
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	1,030	0	0	66.0
- Between Topanga Blvd. and Canoga Ave.	60	10	40	35	1,529	0	0	67.7
- Between Canoga Ave. and Desoto Ave.	50	10	35	35	1,497	0	0	68.3
Erwin Street								
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	239	0	0	59.7
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	1,688	0	0	68.2
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	846	0	0	65.8
Oxnard Street								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	257	0	0	61.3
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	384	0	0	61.7
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	1,128	0	0	66.4
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	1,373	0	0	67.9
Burbank Boulevard								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	246	0	0	61.1
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	790	0	0	64.9
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	313	0	0	60.9
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	362	0	0	62.1

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.

Off-Site Traffic Noise Calculations - WITH ESC (Updated EMP)

Project: Westfield Promenade Project

Traffic Distribution as % of ADT				
Vehicle Type	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

FUTURE NO PROJECT CONDITIONS

WEEKEND - Nighttime Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	Barrier Atten.	Site	Nighttime
							Adjust., dBA	Hour, Leq**
Shoup Avenue								
- Between Vanowen St. and Victory Blvd.	70	10	45	35	596	0	0	63.1
- Between Victory Blvd. and Oxnard St.	60	10	40	35	652	0	0	64.0
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	612	0	0	63.8
- Between Burbank Blvd. and Ventura Blvd.	60	10	40	35	606	0	0	63.7
Topanga Boulevard								
- Between Vanowen St. and Victory Blvd.	80	10	50	35	1,320	0	0	66.1
- Between Victory Blvd. and Erwin St.	90	10	55	35	1,481	0	0	66.1
- Between Erwin St. and Oxnard St.	80	10	50	35	1,507	0	0	66.7
- Between Oxnard St. and Burbank Blvd.	90	10	55	35	1,588	0	0	66.4
Owensmouth Avenue								
- Between Vanowen St. and Victory Blvd.	50	10	35	35	536	0	0	63.8
- Between Victory Blvd. and Erwin St.	60	10	40	35	451	0	0	62.4
- Between Erwin St. and Oxnard St.	60	10	40	35	326	0	0	61.0
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	242	0	0	59.7
Canoga Avenue								
- Between Vanowen St. and Victory Blvd.	50	10	35	35	812	0	0	65.6
- Between Victory Blvd. and Erwin St.	60	10	40	35	962	0	0	65.7
- Between Erwin St. and Oxnard St.	60	10	40	35	822	0	0	65.0
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	627	0	0	63.9
Desoto Avenue								
- Between Vanowen St. and Victory Blvd.	50	10	35	35	809	0	0	65.6

FUTURE NO PROJECT CONDITIONS

WEEKEND - Nighttime Roadway Segment	Roadway Width*, ft	Distance to	Distance to	Speed mph	Traffic Volume PHV	Barrier Atten.	Site	Nighttime
		Edge of Roadway, ft	Centerline, feet				Adjust., dBA	Hour, Leq**
- Between Victory Blvd. and Erwin St.	60	10	40	35	845	0	0	65.2
- Between Erwin St. and Oxnard St.	60	10	40	35	867	0	0	65.3
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	938	0	0	65.6
Vanowen Street								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	727	0	0	65.8
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	696	0	0	64.3
- Between Topanga Blvd. and Canoga Ave.	60	10	40	35	808	0	0	65.0
- Between Canoga Ave. and Desoto Ave.	50	10	35	35	961	0	0	66.3
Victory Boulevard								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	916	0	0	66.8
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	899	0	0	65.4
- Between Topanga Blvd. and Canoga Ave.	60	10	40	35	1,061	0	0	66.2
- Between Canoga Ave. and Desoto Ave.	50	10	35	35	1,079	0	0	66.8
Erwin Street								
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	212	0	0	59.2
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	378	0	0	61.7
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	348	0	0	61.9
Oxnard Street								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	218	0	0	60.6
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	313	0	0	60.9
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	418	0	0	62.1
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	509	0	0	63.6
Burbank Boulevard								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	205	0	0	60.3
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	378	0	0	61.7
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	349	0	0	61.3
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	401	0	0	62.5

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.

Off-Site Traffic Noise Calculations - WITH ESC (Updated EMP)

Project: Westfield Promenade Project

Traffic Distribution as % of ADT				
Vehicle Type	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

FUTURE + PROJECT CONDITIONS

WEEKEND - Nighttime Roadway Segment	Distance to		Speed mph	Traffic Volume PHV	Barrier Atten.	Site Adjust., dBA	Nighttime Hour, Leq**
	Roadway Width*, ft	Edge of Roadway, ft					
Shoup Avenue							
- Between Vanowen St. and Victory Blvd.	70	10	45	35	608	0	63.1
- Between Victory Blvd. and Oxnard St.	60	10	40	35	664	0	64.1
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	626	0	63.9
- Between Burbank Blvd. and Ventura Blvd.	60	10	40	35	624	0	63.9
Topanga Boulevard							
- Between Vanowen St. and Victory Blvd.	80	10	50	35	1,929	0	67.8
- Between Victory Blvd. and Erwin St.	90	10	55	35	2,670	0	68.7
- Between Erwin St. and Oxnard St.	80	10	50	35	3,156	0	69.9
- Between Oxnard St. and Burbank Blvd.	90	10	55	35	3,311	0	69.6
Owensmouth Avenue							
- Between Vanowen St. and Victory Blvd.	50	10	35	35	840	0	65.7
- Between Victory Blvd. and Erwin St.	60	10	40	35	1,093	0	66.3
- Between Erwin St. and Oxnard St.	60	10	40	35	344	0	61.3
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	263	0	60.1
Canoga Avenue							
- Between Vanowen St. and Victory Blvd.	50	10	35	35	873	0	65.9
- Between Victory Blvd. and Erwin St.	60	10	40	35	1,243	0	66.8
- Between Erwin St. and Oxnard St.	60	10	40	35	1,049	0	66.1
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	1,524	0	67.7
Desoto Avenue							
- Between Vanowen St. and Victory Blvd.	50	10	35	35	872	0	65.9

FUTURE + PROJECT CONDITIONS

WEEKEND - Nighttime Roadway Segment	Roadway Width*, ft	Distance to	Distance to	Speed mph	Traffic Volume PHV	Barrier Atten.	Site	Nighttime
		Edge of Roadway, ft	Centerline, feet				Adjust., dBA	Hour, Leq**
- Between Victory Blvd. and Erwin St.	60	10	40	35	1,072	0	0	66.2
- Between Erwin St. and Oxnard St.	60	10	40	35	1,256	0	0	66.9
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	1,384	0	0	67.3
Vanowen Street								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	833	0	0	66.4
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	801	0	0	64.9
- Between Topanga Blvd. and Canoga Ave.	60	10	40	35	893	0	0	65.4
- Between Canoga Ave. and Desoto Ave.	50	10	35	35	1,123	0	0	67.0
Victory Boulevard								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	1,084	0	0	67.6
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	1,056	0	0	66.1
- Between Topanga Blvd. and Canoga Ave.	60	10	40	35	1,597	0	0	67.9
- Between Canoga Ave. and Desoto Ave.	50	10	35	35	1,595	0	0	68.5
Erwin Street								
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	253	0	0	59.9
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	1,742	0	0	68.3
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	901	0	0	66.0
Oxnard Street								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	273	0	0	61.6
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	397	0	0	61.9
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	1,161	0	0	66.5
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	1,417	0	0	68.0
Burbank Boulevard								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	258	0	0	61.3
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	804	0	0	65.0
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	346	0	0	61.3
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	403	0	0	62.6

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.

Off-Site Traffic Noise Calculations - WITH ESC (Updated EMP)

Project: Westfield Promenade Project

Traffic Distribution as % of ADT				
Vehicle Type	Day	Eve	Night	Sub total
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

FUTURE CUMULATIVE + PROJECT CONDITIONS

WEEKEND - Nighttime Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	Barrier Atten.	Site Adjust., dBA	Site	Nighttime
									Hour, Leq**
Shoup Avenue									
- Between Vanowen St. and Victory Blvd.	70	10	45	35	583	0	0		63.0
- Between Victory Blvd. and Oxnard St.	60	10	40	35	681	0	0		64.2
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	662	0	0		64.1
- Between Burbank Blvd. and Ventura Blvd.	60	10	40	35	677	0	0		64.2
Topanga Boulevard									
- Between Vanowen St. and Victory Blvd.	80	10	50	35	1,951	0	0		67.8
- Between Victory Blvd. and Erwin St.	90	10	55	35	2,643	0	0		68.6
- Between Erwin St. and Oxnard St.	80	10	50	35	3,002	0	0		69.7
- Between Oxnard St. and Burbank Blvd.	90	10	55	35	3,163	0	0		69.4
Owensmouth Avenue									
- Between Vanowen St. and Victory Blvd.	50	10	35	35	848	0	0		65.8
- Between Victory Blvd. and Erwin St.	60	10	40	35	1,101	0	0		66.3
- Between Erwin St. and Oxnard St.	60	10	40	35	355	0	0		61.4
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	268	0	0		60.2
Canoga Avenue									
- Between Vanowen St. and Victory Blvd.	50	10	35	35	873	0	0		65.9
- Between Victory Blvd. and Erwin St.	60	10	40	35	1,274	0	0		67.0
- Between Erwin St. and Oxnard St.	60	10	40	35	994	0	0		65.9
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	1,523	0	0		67.7
Desoto Avenue									
- Between Vanowen St. and Victory Blvd.	50	10	35	35	972	0	0		66.4

FUTURE CUMULATIVE + PROJECT CONDITIONS WEEKEND - Nighttime Roadway Segment	Roadway Width*, ft	Distance to	Distance to	Speed mph	Traffic Volume PHV	Barrier Atten.	Site	Nighttime
		Edge of Roadway, ft	Centerline, feet				Adjust., dBA	Hour, Leq**
- Between Victory Blvd. and Erwin St.	60	10	40	35	1,157	0	0	66.5
- Between Erwin St. and Oxnard St.	60	10	40	35	1,307	0	0	67.1
- Between Oxnard St. and Burbank Blvd.	60	10	40	35	1,422	0	0	67.4
Vanowen Street								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	824	0	0	66.4
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	807	0	0	65.0
- Between Topanga Blvd. and Canoga Ave.	60	10	40	35	883	0	0	65.4
- Between Canoga Ave. and Desoto Ave.	50	10	35	35	1,089	0	0	66.9
Victory Boulevard								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	1,133	0	0	67.7
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	1,156	0	0	66.5
- Between Topanga Blvd. and Canoga Ave.	60	10	40	35	1,777	0	0	68.4
- Between Canoga Ave. and Desoto Ave.	50	10	35	35	1,930	0	0	69.4
Erwin Street								
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	298	0	0	60.6
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	1,673	0	0	68.1
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	907	0	0	66.1
Oxnard Street								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	258	0	0	61.3
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	416	0	0	62.1
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	1,194	0	0	66.7
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	1,379	0	0	67.9
Burbank Boulevard								
- Between Fallbrook Ave. and Shoup Ave.	40	10	30	35	269	0	0	61.5
- Between Shoup Ave. and Topanga Blvd.	60	10	40	35	814	0	0	65.0
- Between Topanga Blvd. and Owensmouth Ave.	60	10	40	35	346	0	0	61.3
- Between Owensmouth Ave. and Canoga Ave.	50	10	35	35	378	0	0	62.3

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.