

APPENDIX D

Existing Traffic Noise Contours

**State Route 55 & 73 Juncture
Existing Traffic Noise**

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 2017-011.002

Project Name: **Audi Fletcher Jones**

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.

Source of Traffic Volumes: **Caltrans 2017 Traffic Volumes** <http://www.dot.ca.gov/trafficops/census/>

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%

Analysis Condition Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway					Calc Dist
						Medium Trucks	Heavy Trucks	CNEL at 300 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL	

Analysis Condition - Existing Conditions

State Route 55

East of Mesa Drive	8	30	153,600	65	0.5	1.8%	0.7%	70.1	303	654	1,409	3,035	300
--------------------	---	----	---------	----	-----	------	------	-------------	-----	-----	-------	-------	-----

State Route 73

Victoria Blvd to Costco Driveway	6	35	175,200	65	0.5	1.8%	0.7%	70.6	329	710	1,529	3,294	300
----------------------------------	---	----	---------	----	-----	------	------	-------------	-----	-----	-------	-------	-----

According to the Caltrans' Technical Noise Supplement to the Traffic Noise Analysis Protocol (2013), [http://www.dot.ca.gov/hq/env/noise/pub/TeNS_Sept_2013A.pdf] when two identical sources are each producing sound of the same loudness, the resulting sound level at a given distance would be 3 dB higher than one source under the same conditions