

N/A	Total	89.6	86.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A			

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 122-0283
Project Name: Pico Avenue Residential

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
 Source of Traffic Volumes: Linscott, Law, and Greenspan, February 2023
 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%

"-" = contour is located within the roadway right-of-way.
 Distance is from the centerline of the roadway segment to the receptor location.

Analysis Condition Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway				
						Medium Trucks	Heavy Trucks	CNEL at 50 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
Mission Road												
Knoll Road to Pico Avenue, existing	4	12	14,510	45	0.5	3.0%	2.0%	69.6	-	102	219	472
Knoll Road to Pico Avenue, existing + project	4	12	14,536	45	0.5	3.0%	2.0%	69.6	-	102	219	473
San Marcos Boulevard												
Pico Avenue to TOV Road, existing	4	12	5,860	40	0.5	3.0%	2.0%	64.6	-	-	102	220
Pico Avenue to TOV Road, existing + project	4	12	5,956	40	0.5	3.0%	2.0%	64.7	-	-	103	222
Pico Avenue												
Mission Road to San Marcos Boulevard, existing	3	12	31,200	25	0.5	2.0%	1.0%	66.7	-	65	140	301
Mission Road to San Marcos Boulevard, existing + project	3	12	31,277	25	0.5	2.0%	1.0%	66.7	-	65	140	301

Sound Point Source
Attenuation Rate:

Dependence on Distance
6 dBA/doubling of distance

L1 = Reference sound level
L2 = Target sound level

D1 = Reference distance
D2 = Target distance

	L2 =	L1 -	20 * log(D2/D1)				L2
	L1	D1	D2	D2/D1	log (D2/D1)	L1-20*log(D2/D1)	
For L(eq)t	86	50	230	4.6	0.6628	72.7	Construction
	86	50	180	3.6	0.5563	74.9	Construction
	79	3	15	5	0.6990	65.0	HVAC