

APPENDIX D
Noise Data

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 1A
Project Name: Whittier Boulevard-Santa Fe Springs Intersection Improvement Project

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
Source of Traffic Volumes: Iteris 2015
Community Noise Descriptor: L_{dn}: x CNEL:

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	Ldn at 100 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn		
North Leg														
North Leg	2	0	7,900	25	0.5	1.8%	0.1%	52.7	-	-	33	70	100	
South Leg														
South Leg	4	0	11,500	45	0.5	1.8%	0.1%	60.7	-	52	111	240	100	
East Leg														
East Leg	4	10	30,500	45	0.5	1.8%	0.1%	65.0	-	100	215	464	100	
West Leg 1														
West Leg 1	4	10	19,300	45	0.5	1.8%	0.1%	63.0	-	74	159	342	100	
West Leg 2														
West Leg 2	4	0	15,800	45	0.5	1.8%	0.1%	62.1	-	64	137	296	100	

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						Medium Trucks	Heavy Trucks	Ldn at 100 Feet	70 Ldn	65 Ldn	60 Ldn	55 Ldn		
North Leg														
North Leg	2	0	8,500	25	0.5	1.8%	0.1%	53.0	-	-	34	74	100	
South Leg														
South Leg	4	0	12,400	45	0.5	1.8%	0.1%	61.0	-	54	117	252	100	
East Leg														
East Leg	4	10	32,900	45	0.5	1.8%	0.1%	65.3	-	105	227	488	100	
West Leg 1														
West Leg 1	4	10	20,800	45	0.5	1.8%	0.1%	63.3	-	77	167	360	100	
West Leg 2														
West Leg 2	4	0	17,100	45	0.5	1.8%	0.1%	62.4	-	67	145	312	100	