

APPENDIX F

Noise Modeling

Traffic Noise Prediction Model, (FHWA RD-77-108)
Model Input Sheet



Project Name : Elk Grove Multi-Sport Complex
Project Number : 60444290
Modeling Condition : Existing + Project Buildout
Ground Type : Hard
Metric (L_{eq}, L_{dn}, CNEL) : Ldn

K Factor : NA
Traffic Desc. (Peak or ADT) : ADT

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	Bradshaw Rd	Elk Grove Blvd	Grant Line Rd	7760	45	100	87	9	4	81	0	19	
2	Grant Line Rd	SR 99 SB Ramps	SR 99 NB Ramps	29420	45	100	87	9	4	81	0	19	
3	Grant Line Rd	SR 99 NB Ramps	E. Stockton Blvd	43520	45	100	87	9	4	81	0	19	
4	Grant Line Rd	E. Stockton Blvd	Waterman Rd	39840	45	100	87	9	4	81	0	19	
5	Grant Line Rd	Waterman Rd	Mosher Rd	18210	45	100	87	9	4	81	0	19	
6	Grant Line Rd	Mosher Rd	Bradshaw Rd	17060	45	100	87	9	4	81	0	19	
7	Grant Line Rd	Bradshaw Rd	Elk Grove Blvd	8750	45	100	87	9	4	81	0	19	
8	Kammerer Rd	Lent Ranch Pkwy	Promenade Pkwy	9940	45	100	87	9	4	81	0	19	
9	Kammerer Rd	Promenade Pkwy	SR 99 SB Ramps	15690	45	100	87	9	4	81	0	19	
10	Mosher Rd	Waterman Rd	Grant Line Rd	7500	45	100	87	9	4	81	0	19	
11	Waterman Rd	Mosher Rd	Grant Line Rd	9460	45	100	87	9	4	81	0	19	
12	SR 99	Dillard Road	Grant Line Road	55990	65	100	87	9	4	81	0	19	
13	SR 99	Grant Line Road	Elk Grove Boulevard	53030	65	100	87	9	4	81	0	19	

Traffic Noise Prediction Model, (FHWA RD-77-108)
Predicted Noise Levels



Project Name : Elk Grove Multi-Sport Complex
Project Number : 60444290
Modeling Condition : Existing + Project Buildout
Metric (Leq, Ldn, CNEL) : Ldn

Segment	Roadway	Segment		Noise Levels, dB Ldn				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	Bradshaw Rd	Elk Grove Blvd	Grant Line Rd	63.2	61.6	62.6	67.3	53	169	533	1686	5331
2	Grant Line Rd	SR 99 SB Ramps	SR 99 NB Ramps	69.0	67.4	68.4	73.1	202	639	2021	6391	20211
3	Grant Line Rd	SR 99 NB Ramps	E. Stockton Blvd	70.7	69.1	70.1	74.8	299	945	2990	9455	29898
4	Grant Line Rd	E. Stockton Blvd	Waterman Rd	70.3	68.7	69.7	74.4	274	866	2737	8655	27370
5	Grant Line Rd	Waterman Rd	Mosher Rd	66.9	65.3	66.3	71.0	125	396	1251	3956	12510
6	Grant Line Rd	Mosher Rd	Bradshaw Rd	66.6	65.0	66.0	70.7	117	371	1172	3706	11720
7	Grant Line Rd	Bradshaw Rd	Elk Grove Blvd	63.7	62.1	63.1	67.8	60	190	601	1901	6011
8	Kammerer Rd	Lent Ranch Pkwy	Promenade Pkwy	64.3	62.7	63.6	68.3	68	216	683	2159	6829
9	Kammerer Rd	Promenade Pkwy	SR 99 SB Ramps	66.2	64.6	65.6	70.3	108	341	1078	3409	10779
10	Mosher Rd	Waterman Rd	Grant Line Rd	63.0	61.4	62.4	67.1	52	163	515	1629	5152
11	Waterman Rd	Mosher Rd	Grant Line Rd	64.1	62.4	63.4	68.1	65	206	650	2055	6499
12	SR 99	Dillard Road	Grant Line Road	76.4	72.7	72.6	79.0	801	2533	8010	25330	80101
13	SR 99	Grant Line Road	Elk Grove Boulevard	76.1	72.4	72.4	78.8	759	2399	7587	23991	75866