Appendix D.

Noise Impact Calculations

Costco Commercial Center Peak Hour Noise Estimates

Existing Conditions p.m. Peak

ROAD SEGMENT	from:	to:	TOT. # VEH.	VEHICLE TYPE % Auto %	Auto	MT %	MT	HT %	HT	VEHICLE SPEED Auto	k/h	MT	k/h	HT	k/h	NOISE LEVEL (dBA) Auto	MT	HT	CALC. NOISE LEV. (15 m from rdwy ctr)	Recept. Dist. fr. Rdwy Ctr (m)	Adjusted Noise Level (dBA)	Recept. Dist. fr. Rdwy Ctr (m)	Adjusted Noise Level (dBA)
Gladstone Street	Valley Center Ave	Lone Hill Ave	975	87	848.3	3	29.3	10	97.5	35	56	35	56	35	56	62.8	59.6	70.7	71.6	10	73.4	10	73.4
Lone Hill Ave	Arrow Highway	Gladstone Street	1586	87	1380	3	47.6	10	159	15	24	15	24	15	24	54.5	52.9	67.4	67.8	10	69.5	10	69.5
Gladstone Street	Crenshaw Blvd	N Amelia Ave	907	87	789.1	3	27.2	10	90.7	35	56	35	56	35	56	62.5	59.3	70.4	71.3	10	73.1	10	73.1

Ambient Growth p.m. Peak

ROAD SEGMENT	from:	to:	TOT. # VEH.	VEHICLE TYPE % Auto %	Auto	MT %	MT	HT %	HT	VEHICLE SPEED Auto	k/h	MT	k/h	HT	k/h	NOISE LEVEL (dBA) Auto	MT	HT	CALC. NOISE LEV. (15 m from rdwy ctr)	Recept. Dist. fr. Rdwy Ctr (m)	Adjusted Noise Level (dBA)	Recept. Dist. fr. Rdwy Ctr (m)	Adjusted Noise Level (dBA)
Gladstone Street	Valley Center Ave	Lone Hill Ave	1646	87	1432	3	49.4	10	165	35	56	35	56	35	56	65.0	61.9	72.9	73.9	10	75.6	10	75.6
Lone Hill Ave	Arrow Highway	Gladstone Street	2123	87	1847	3	63.7	10	212	15	24	15	24	15	24	55.8	54.2	68.7	69.0	10	70.8	10	70.8
Gladstone Street	Crenshaw Blvd	N Amelia Ave	1198	87	1042	3	35.9	10	120	35	56	35	56	35	56	63.7	60.5	71.6	72.5	10	74.3	10	74.3

Future With Project Conditions p.m. Peak

ROAD SEGMENT	from:	to:	TOT. # VEH.	VEHICLE TYPE % Auto %	Auto	MT %	MT	HT %	HT	VEHICLE SPEED Auto	k/h	MT	k/h	HT	k/h	NOISE LEVEL (dBA) Auto	MT	HT	CALC. NOISE LEV. (15 m from rdwy ctr)	Recept. Dist. fr. Rdwy Ctr (m)	Adjusted Noise Level (dBA)	Recept. Dist. fr. Rdwy Ctr (m)	Adjusted Noise Level (dBA)
Gladstone Street	Valley Center Ave	Lone Hill Ave	1725	87	1501	3	51.8	10	173	35	56	35	56	35	56	65.2	62.1	73.2	74.1	10	75.8	10	75.8
Lone Hill Ave	Arrow Highway	Gladstone Street	2538	87	2208	3	76.1	10	254	15	24	15	24	15	24	56.6	55.0	69.5	69.8	10	71.6	10	71.6
Gladstone Street	Crenshaw Blvd	N Amelia Ave	1281	87	1114	3	38.4	10	128	35	56	35	56	35	56	64.0	60.8	71.9	72.8	10	74.6	10	74.6