APPENDIX I

TRAFFIC NOISE MODEL (TNM) 2.5 PRINTOUTS FOR FUTURE (2025) FOOTHILL EXTENSION WITH SOUND BARRIERS

LSA Associates, Inc. 15 January 2008
Jason Lui TNM 2.5

RESULTS: BARRIER DESCRIPTIONS
PROJECT/CONTRACT: Foothill Parkway Westerly Extension
RUN: Future Build Barrier
BARRIER DESIGN: INPUT HEIGHTS

Barriers

Name	Type	Heights along Barrier			Length	If Wall	If Berm			Cost
		Min	Avg	Max		Area	Volume	Top Width	Run:Rise	
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	$
Existing Wall 1	W	6.00	6.00	6.00	1851	11109				0
Existing Wall 2	W	6.00	6.00	6.00	1896	11374				0
Existing Wall 3	W	6.00	6.00	6.00	1469	8815				0
Existing Wall 4	W	6.00	6.00	6.00	364	2185				0
Existing Wall 5	W	6.00	6.00	6.00	689	4132				0
Existing Wall 6	W	6.00	6.00	6.00	719	4314				0
Sound Barrier 1	W	6.00	6.00	6.00	144	862				0
Sound Barrier 2	W	6.00	6.00	6.00	377	2262				0
Sound Barrier 3	W	6.00	6.00	6.00	1746	10478				0
Property Wall	W	6.00	6.00	6.00	123	738				0
									Total Cost:	0

LSA Associates, Inc. **15 January 2008**
Jason Lui **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: **Foothill Parkway Westerly Extension**
RUN: **Future Build Barrier**

Roadway	Points											
Name	Name	No.	Segment									
			Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Border NB	point288	288	169	30	2	30	9	25	0	0	0	0
	point35	35	169	30	2	30	9	25	0	0	0	0
	point34	34	169	30	2	30	9	25	0	0	0	0
	point33	33	169	30	2	30	9	25	0	0	0	0
	point32	32	169	30	2	30	9	25	0	0	0	0
	point31	31	169	30	2	30	9	25	0	0	0	0
	point30	30	169	30	2	30	9	25	0	0	0	0
	point29	29	169	30	2	30	9	25	0	0	0	0
	point28	28	169	30	2	30	9	25	0	0	0	0
	point27	27	169	30	2	30	9	25	0	0	0	0
	point26	26	169	30	2	30	9	25	0	0	0	0
	point25	25	169	30	2	30	9	25	0	0	0	0
	point286	286										
Border SB	point289	289	169	30	2	30	9	25	0	0	0	0
	point287	287	169	30	2	30	9	25	0	0	0	0
	point46	46	169	30	2	30	9	25	0	0	0	0
	point45	45	169	30	2	30	9	25	0	0	0	0
	point44	44	169	30	2	30	9	25	0	0	0	0
	point43	43	169	30	2	30	9	25	0	0	0	0
	point42	42	169	30	2	30	9	25	0	0	0	0
	point41	41	169	30	2	30	9	25	0	0	0	0
	point40	40	169	30	2	30	9	25	0	0	0	0
	point39	39	169	30	2	30	9	25	0	0	0	0

	point38	38	169	30	2	30	9	25	0	0	0	0
	point37	37	169	30	2	30	9	25	0	0	0	0
	point36	36										
Mangular NB	point47	47	212	25	2	25	11	20	0	0	0	0
	point48	48	212	25	2	25	11	20	0	0	0	0
	point49	49	212	25	2	25	11	20	0	0	0	0
	point50	50	212	25	2	25	11	20	0	0	0	0
	point51	51	212	25	2	25	11	20	0	0	0	0
	point52	52	212	25	2	25	11	20	0	0	0	0
	point53	53	212	25	2	25	11	20	0	0	0	0
	point54	54	212	25	2	25	11	20	0	0	0	0
	point55	55										
Mangular SB	point68	68	212	25	2	25	11	20	0	0	0	0
	point67	67	212	25	2	25	11	20	0	0	0	0
	point66	66	212	25	2	25	11	20	0	0	0	0
	point65	65	212	25	2	25	11	20	0	0	0	0
	point64	64	212	25	2	25	11	20	0	0	0	0
	point63	63	212	25	2	25	11	20	0	0	0	0
	point62	62	212	25	2	25	11	20	0	0	0	0
	point61	61	212	25	2	25	11	20	0	0	0	0
	point60	60										
Lincoln NB	point110	110	428	45	5	45	23	40	0	0	0	0
	point109	109	428	45	5	45	23	40	0	0	0	0
	point108	108	428	45	5	45	23	40	0	0	0	0
	point107	107	428	45	5	45	23	40	0	0	0	0
	point106	106	428	45	5	45	23	40	0	0	0	0
	point105	105	428	45	5	45	23	40	0	0	0	0
	point104	104	428	45	5	45	23	40	0	0	0	0
	point103	103	428	45	5	45	23	40	0	0	0	0
	point102	102	428	45	5	45	23	40	0	0	0	0
	point101	101										
Lincoln SB	point120	120	428	45	5	45	23	40	0	0	0	0
	point119	119	428	45	5	45	23	40	0	0	0	0
	point118	118	428	45	5	45	23	40	0	0	0	0
	point117	117	428	45	5	45	23	40	0	0	0	0
	point116	116	428	45	5	45	23	40	0	0	0	0

	point115	115	428	45	5	45	23	40	0	0	0	0
	point114	114	428	45	5	45	23	40	0	0	0	0
	point113	113	428	45	5	45	23	40	0	0	0	0
	point112	112	428	45	5	45	23	40	0	0	0	0
	point111	111										
Paseo Grande NB	point139	139	348	40	4	40	19	35	0	0	0	0
	point129	129	348	40	4	40	19	35	0	0	0	0
	point128	128	348	40	4	40	19	35	0	0	0	0
	point127	127	348	40	4	40	19	35	0	0	0	0
	point126	126	348	40	4	40	19	35	0	0	0	0
	point125	125	348	40	4	40	19	35	0	0	0	0
	point124	124	348	40	4	40	19	35	0	0	0	0
	point123	123	348	40	4	40	19	35	0	0	0	0
	point122	122	348	40	4	40	19	35	0	0	0	0
	point121	121										
Paseo Grande SB	point130	130	348	40	4	40	19	35	0	0	0	0
	point131	131	348	40	4	40	19	35	0	0	0	0
	point132	132	348	40	4	40	19	35	0	0	0	0
	point133	133	348	40	4	40	19	35	0	0	0	0
	point134	134	348	40	4	40	19	35	0	0	0	0
	point135	135	348	40	4	40	19	35	0	0	0	0
	point136	136	348	40	4	40	19	35	0	0	0	0
	point137	137	348	40	4	40	19	35	0	0	0	0
	point138	138	348	40	4	40	19	35	0	0	0	0
	point140	140										
Foothill Parkway WB 1	point332	332	1020	45	11	45	54	40	0	0	0	0
	point331	331	1020	45	11	45	54	40	0	0	0	0
	point330	330	1020	45	11	45	54	40	0	0	0	0
	point329	329	1020	45	11	45	54	40	0	0	0	0
	point328	328	1020	45	11	45	54	40	0	0	0	0
	point327	327	1020	45	11	45	54	40	0	0	0	0
	point326	326	1020	45	11	45	54	40	0	0	0	0
	point325	325	1020	45	11	45	54	40	0	0	0	0
	point324	324	1020	45	11	45	54	40	0	0	0	0
	point323	323	1020	45	11	45	54	40	0	0	0	0
	point322	322	1020	45	11	45	54	40	0	0	0	0

	point321	321	1020	45	11	45	54	40	0	0	0	0
	point320	320	1020	45	11	45	54	40	0	0	0	0
	point319	319	1020	45	11	45	54	40	0	0	0	0
	point318	318	1020	45	11	45	54	40	0	0	0	0
	point317	317	1020	45	11	45	54	40	0	0	0	0
	point316	316	1020	45	11	45	54	40	0	0	0	0
	point315	315	1020	45	11	45	54	40	0	0	0	0
	point314	314	1020	45	11	45	54	40	0	0	0	0
	point313	313	1020	45	11	45	54	40	0	0	0	0
	point312	312	1020	45	11	45	54	40	0	0	0	0
	point311	311	1020	45	11	45	54	40	0	0	0	0
	point310	310	1020	45	11	45	54	40	0	0	0	0
	point309	309	1020	45	11	45	54	40	0	0	0	0
	point308	308	1020	45	11	45	54	40	0	0	0	0
	point307	307	1020	45	11	45	54	40	0	0	0	0
	point306	306	1020	45	11	45	54	40	0	0	0	0
	point305	305	1020	45	11	45	54	40	0	0	0	0
	point304	304	1020	45	11	45	54	40	0	0	0	0
	point303	303	1020	45	11	45	54	40	0	0	0	0
	point302	302	1020	45	11	45	54	40	0	0	0	0
	point301	301	1020	45	11	45	54	40	0	0	0	0
	point300	300	1020	45	11	45	54	40	0	0	0	0
	point299	299	1020	45	11	45	54	40	0	0	0	0
	point298	298	1020	45	11	45	54	40	0	0	0	0
	point297	297	1020	45	11	45	54	40	0	0	0	0
	point296	296	1020	45	11	45	54	40	0	0	0	0
	point295	295	1020	45	11	45	54	40	0	0	0	0
	point294	294	1020	45	11	45	54	40	0	0	0	0
	point293	293	1020	45	11	45	54	40	0	0	0	0
	point292	292	1020	45	11	45	54	40	0	0	0	0
	point291	291	1020	45	11	45	54	40	0	0	0	0
	point290	290										
Foothill Parkway WB 2	point369	369	1137	45	12	45	61	40	0	0	0	0
	point368	368	1137	45	12	45	61	40	0	0	0	0
	point367	367	1137	45	12	45	61	40	0	0	0	0
	point366	366	1137	45	12	45	61	40	0	0	0	0

	point365	365	1137	45	12	45	61	40	0	0	0	0
	point364	364	1137	45	12	45	61	40	0	0	0	0
	point363	363	1137	45	12	45	61	40	0	0	0	0
	point362	362	1137	45	12	45	61	40	0	0	0	0
	point361	361	1137	45	12	45	61	40	0	0	0	0
	point360	360	1137	45	12	45	61	40	0	0	0	0
	point359	359	1137	45	12	45	61	40	0	0	0	0
	point358	358	1137	45	12	45	61	40	0	0	0	0
	point357	357	1137	45	12	45	61	40	0	0	0	0
	point356	356	1137	45	12	45	61	40	0	0	0	0
	point355	355	1137	45	12	45	61	40	0	0	0	0
	point354	354	1137	45	12	45	61	40	0	0	0	0
	point353	353	1137	45	12	45	61	40	0	0	0	0
	point352	352	1137	45	12	45	61	40	0	0	0	0
	point351	351	1137	45	12	45	61	40	0	0	0	0
	point350	350	1137	45	12	45	61	40	0	0	0	0
	point349	349	1137	45	12	45	61	40	0	0	0	0
	point348	348	1137	45	12	45	61	40	0	0	0	0
	point347	347	1137	45	12	45	61	40	0	0	0	0
	point346	346	1137	45	12	45	61	40	0	0	0	0
	point345	345	1137	45	12	45	61	40	0	0	0	0
	point344	344	1137	45	12	45	61	40	0	0	0	0
	point343	343	1137	45	12	45	61	40	0	0	0	0
	point342	342	1137	45	12	45	61	40	0	0	0	0
	point341	341	1137	45	12	45	61	40	0	0	0	0
	point340	340	1137	45	12	45	61	40	0	0	0	0
	point339	339	1137	45	12	45	61	40	0	0	0	0
	point338	338	1137	45	12	45	61	40	0	0	0	0
	point337	337	1137	45	12	45	61	40	0	0	0	0
	point336	336	1137	45	12	45	61	40	0	0	0	0
	point335	335	1137	45	12	45	61	40	0	0	0	0
	point334	334										
Foothill Parkway EB 1	point413	413	1137	45	12	45	61	40	0	0	0	0
	point412	412	1137	45	12	45	61	40	0	0	0	0
	point411	411	1137	45	12	45	61	40	0	0	0	0
	point410	410	1137	45	12	45	61	40	0	0	0	0

	point409	409	1137	45	12	45	61	40	0	0	0	0
	point408	408	1137	45	12	45	61	40	0	0	0	0
	point407	407	1137	45	12	45	61	40	0	0	0	0
	point406	406	1137	45	12	45	61	40	0	0	0	0
	point405	405	1137	45	12	45	61	40	0	0	0	0
	point404	404	1137	45	12	45	61	40	0	0	0	0
	point403	403	1137	45	12	45	61	40	0	0	0	0
	point402	402	1137	45	12	45	61	40	0	0	0	0
	point401	401	1137	45	12	45	61	40	0	0	0	0
	point400	400	1137	45	12	45	61	40	0	0	0	0
	point399	399	1137	45	12	45	61	40	0	0	0	0
	point398	398	1137	45	12	45	61	40	0	0	0	0
	point397	397	1137	45	12	45	61	40	0	0	0	0
	point396	396	1137	45	12	45	61	40	0	0	0	0
	point395	395	1137	45	12	45	61	40	0	0	0	0
	point394	394	1137	45	12	45	61	40	0	0	0	0
	point393	393	1137	45	12	45	61	40	0	0	0	0
	point392	392	1137	45	12	45	61	40	0	0	0	0
	point391	391	1137	45	12	45	61	40	0	0	0	0
	point390	390	1137	45	12	45	61	40	0	0	0	0
	point389	389	1137	45	12	45	61	40	0	0	0	0
	point388	388	1137	45	12	45	61	40	0	0	0	0
	point387	387	1137	45	12	45	61	40	0	0	0	0
	point386	386	1137	45	12	45	61	40	0	0	0	0
	point385	385	1137	45	12	45	61	40	0	0	0	0
	point384	384	1137	45	12	45	61	40	0	0	0	0
	point383	383	1137	45	12	45	61	40	0	0	0	0
	point382	382	1137	45	12	45	61	40	0	0	0	0
	point381	381	1137	45	12	45	61	40	0	0	0	0
	point380	380	1137	45	12	45	61	40	0	0	0	0
	point379	379	1137	45	12	45	61	40	0	0	0	0
	point378	378	1137	45	12	45	61	40	0	0	0	0
	point377	377	1137	45	12	45	61	40	0	0	0	0
	point376	376	1137	45	12	45	61	40	0	0	0	0
	point375	375	1137	45	12	45	61	40	0	0	0	0
	point374	374	1137	45	12	45	61	40	0	0	0	0

	point373	373	1137	45	12	45	61	40	0	0	0	0
	point372	372	1137	45	12	45	61	40	0	0	0	0
	point371	371										
Foothill Parkway EB 2	point449	449	1137	45	12	45	61	40	0	0	0	0
	point448	448	1137	45	12	45	61	40	0	0	0	0
	point447	447	1137	45	12	45	61	40	0	0	0	0
	point446	446	1137	45	12	45	61	40	0	0	0	0
	point445	445	1137	45	12	45	61	40	0	0	0	0
	point444	444	1137	45	12	45	61	40	0	0	0	0
	point443	443	1137	45	12	45	61	40	0	0	0	0
	point442	442	1137	45	12	45	61	40	0	0	0	0
	point441	441	1137	45	12	45	61	40	0	0	0	0
	point440	440	1137	45	12	45	61	40	0	0	0	0
	point439	439	1137	45	12	45	61	40	0	0	0	0
	point438	438	1137	45	12	45	61	40	0	0	0	0
	point437	437	1137	45	12	45	61	40	0	0	0	0
	point436	436	1137	45	12	45	61	40	0	0	0	0
	point435	435	1137	45	12	45	61	40	0	0	0	0
	point434	434	1137	45	12	45	61	40	0	0	0	0
	point433	433	1137	45	12	45	61	40	0	0	0	0
	point432	432	1137	45	12	45	61	40	0	0	0	0
	point431	431	1137	45	12	45	61	40	0	0	0	0
	point430	430	1137	45	12	45	61	40	0	0	0	0
	point429	429	1137	45	12	45	61	40	0	0	0	0
	point428	428	1137	45	12	45	61	40	0	0	0	0
	point427	427	1137	45	12	45	61	40	0	0	0	0
	point426	426	1137	45	12	45	61	40	0	0	0	0
	point425	425	1137	45	12	45	61	40	0	0	0	0
	point424	424	1137	45	12	45	61	40	0	0	0	0
	point423	423	1137	45	12	45	61	40	0	0	0	0
	point422	422	1137	45	12	45	61	40	0	0	0	0
	point421	421	1137	45	12	45	61	40	0	0	0	0
	point420	420	1137	45	12	45	61	40	0	0	0	0
	point419	419	1137	45	12	45	61	40	0	0	0	0
	point418	418	1137	45	12	45	61	40	0	0	0	0
	point417	417	1137	45	12	45	61	40	0	0	0	0

	point416	416	1137	45	12	45	61	40	0	0	0	0
	point415	415	1137	45	12	45	61	40	0	0	0	0
	point414	414										
Chase WB	point457	457	212	25	2	25	11	20	0	0	0	0
	point456	456	212	25	2	25	11	20	0	0	0	0
	point455	455	212	25	2	25	11	20	0	0	0	0
	point454	454	212	25	2	25	11	20	0	0	0	0
	point453	453	212	25	2	25	11	20	0	0	0	0
	point452	452										
Chase EB	point463	463	212	25	2	25	11	20	0	0	0	0
	point462	462	212	25	2	25	11	20	0	0	0	0
	point461	461	212	25	2	25	11	20	0	0	0	0
	point460	460	212	25	2	25	11	20	0	0	0	0
	point459	459	212	25	2	25	11	20	0	0	0	0
	point458	458										

LSA Associates, Inc.			15 January 2008	
Jason Lui			TNM 2.5	
INPUT: TERRAIN LINES				
PROJECT/CONTRACT:	Foothill Parkway Westerly Extension			
RUN:	Future Build Barrier			
Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
Paseo Grande SB	140	6,147,586.0	2,260,507.0	847.00
	139	6,147,609.0	2,260,530.0	845.00
	138	6,147,655.0	2,260,580.0	840.00
	137	6,147,702.0	2,260,628.5	835.00
	136	6,147,747.0	2,260,678.2	830.00
	135	6,147,790.5	2,260,727.5	825.00
	134	6,147,823.0	2,260,765.8	821.00
	133	6,147,861.0	2,260,817.0	820.00
	132	6,147,886.5	2,260,865.0	816.00
	131	6,147,911.5	2,260,924.0	812.00
Chisholm 5	246	6,147,969.0	2,256,880.2	1,185.00
	245	6,148,005.0	2,256,851.5	1,185.00
	244	6,148,034.0	2,256,821.5	1,185.00
	243	6,148,059.0	2,256,797.5	1,185.00
	242	6,148,079.5	2,256,776.0	1,185.00
	241	6,148,104.0	2,256,754.0	1,185.00
	240	6,148,134.5	2,256,733.2	1,185.00
	239	6,148,166.5	2,256,700.0	1,185.00
	238	6,148,166.0	2,256,675.0	1,185.00
	237	6,148,168.0	2,256,638.5	1,185.00
	236	6,148,156.0	2,256,596.8	1,185.00
	235	6,148,151.0	2,256,579.8	1,185.00
	234	6,148,158.5	2,256,569.8	1,185.00
	233	6,148,175.0	2,256,578.0	1,185.00

	232	6,148,196.0	2,256,589.0	1,185.00
	231	6,148,229.5	2,256,619.2	1,185.00
	230	6,148,238.5	2,256,642.8	1,185.00
	229	6,148,264.0	2,256,651.5	1,185.00
	228	6,148,292.0	2,256,628.0	1,185.00
	227	6,148,314.5	2,256,604.5	1,185.00
	226	6,148,328.0	2,256,571.0	1,185.00
	225	6,148,344.0	2,256,528.8	1,185.00
	224	6,148,351.0	2,256,513.2	1,185.00
	223	6,148,346.5	2,256,491.2	1,185.00
	222	6,148,359.5	2,256,458.5	1,185.00
	221	6,148,368.5	2,256,420.5	1,185.00
Falcon 1	253	6,148,885.0	2,256,049.0	1,146.00
	252	6,148,920.0	2,256,010.5	1,146.00
	251	6,148,966.0	2,255,967.5	1,146.00
	250	6,149,007.5	2,255,927.2	1,146.00
	249	6,149,053.0	2,255,882.5	1,146.00
	248	6,149,093.0	2,255,832.8	1,146.00
	247	6,149,104.5	2,255,807.5	1,146.00
Falcon 2	261	6,149,017.5	2,256,082.8	1,115.00
	260	6,149,032.5	2,256,064.8	1,115.00
	259	6,149,056.0	2,256,063.8	1,115.00
	258	6,149,087.0	2,256,038.0	1,115.00
	257	6,149,124.0	2,256,001.0	1,115.00
	256	6,149,154.5	2,255,972.5	1,115.00
	255	6,149,176.0	2,255,943.0	1,115.00
	254	6,149,204.0	2,255,913.8	1,115.00
Condor Terrain	282	6,150,041.0	2,255,892.8	1,115.00
	281	6,149,999.0	2,255,808.0	1,120.00
	280	6,149,972.0	2,255,786.8	1,125.00
	279	6,149,925.5	2,255,735.2	1,130.00
	278	6,149,897.0	2,255,713.2	1,135.00
	277	6,149,876.5	2,255,699.2	1,140.00
	276	6,149,826.5	2,255,660.5	1,145.00
	275	6,149,783.0	2,255,625.8	1,150.00
	274	6,149,751.0	2,255,599.0	1,155.00

	273	6,149,709.5	2,255,577.8	1,160.00
	272	6,149,682.5	2,255,562.2	1,165.00
	271	6,149,655.5	2,255,549.5	1,170.00
	270	6,149,597.0	2,255,514.2	1,175.00
	269	6,149,558.0	2,255,493.8	1,180.00
	268	6,149,495.5	2,255,457.0	1,185.00
	267	6,149,474.0	2,255,476.8	1,186.00
	266	6,149,396.0	2,255,555.8	1,185.00
	265	6,149,356.5	2,255,582.8	1,187.00
	264	6,149,264.0	2,255,649.8	1,190.00
	263	6,149,271.0	2,255,663.2	1,190.00
	262	6,149,252.5	2,255,683.8	1,190.00
Bonnyview 1	293	6,150,654.0	2,254,747.8	1,103.00
	292	6,150,621.0	2,254,771.0	1,104.00
	291	6,150,612.0	2,254,789.0	1,105.00
	290	6,150,608.5	2,254,830.2	1,107.00
	289	6,150,607.5	2,254,864.5	1,109.00
	288	6,150,599.5	2,254,908.0	1,112.00
	287	6,150,586.0	2,254,956.5	1,115.00
	286	6,150,567.0	2,255,002.0	1,118.00
	285	6,150,540.5	2,255,041.8	1,121.00
	284	6,150,498.0	2,255,087.5	1,122.40
	283	6,150,482.0	2,255,121.5	1,122.40
Bonnyview 2	304	6,150,130.5	2,255,071.2	1,190.00
	303	6,150,139.0	2,255,103.0	1,190.00
	302	6,150,155.0	2,255,125.0	1,190.00
	301	6,150,204.5	2,255,107.2	1,190.00
	300	6,150,254.0	2,255,083.0	1,190.00
	299	6,150,296.5	2,255,061.8	1,190.00
	298	6,150,350.0	2,255,002.8	1,190.00
	297	6,150,383.0	2,254,952.0	1,190.00
	296	6,150,404.0	2,254,910.0	1,190.00
	295	6,150,409.0	2,254,875.0	1,190.00
	294	6,150,441.0	2,254,830.8	1,190.00
Bonnyview 3	325	6,150,507.0	2,254,624.0	1,150.00
	324	6,150,471.5	2,254,632.2	1,150.00

	323	6,150,445.5	2,254,639.5	1,150.00
	322	6,150,423.0	2,254,655.5	1,150.00
	321	6,150,412.0	2,254,674.5	1,150.00
	320	6,150,405.0	2,254,694.0	1,150.00
	319	6,150,395.5	2,254,711.5	1,150.00
	318	6,150,414.5	2,254,723.0	1,150.00
	317	6,150,429.0	2,254,723.0	1,150.00
	316	6,150,438.5	2,254,718.2	1,150.00
	315	6,150,461.0	2,254,715.8	1,150.00
	314	6,150,476.0	2,254,730.0	1,150.00
	313	6,150,474.0	2,254,740.5	1,150.00
	312	6,150,459.0	2,254,763.5	1,150.00
	311	6,150,450.5	2,254,782.8	1,150.00
	310	6,150,453.0	2,254,799.8	1,150.00
	309	6,150,465.0	2,254,811.0	1,150.00
	308	6,150,474.5	2,254,827.5	1,150.00
	307	6,150,484.5	2,254,844.0	1,150.00
	306	6,150,483.0	2,254,871.2	1,150.00
	305	6,150,477.0	2,254,891.5	1,150.00
Clearview Terrain	347	6,150,781.0	2,254,626.2	1,140.00
	346	6,150,747.5	2,254,633.0	1,140.00
	345	6,150,688.5	2,254,636.8	1,141.30
	344	6,150,634.0	2,254,632.5	1,141.30
	343	6,150,559.0	2,254,621.5	1,142.10
	342	6,150,583.0	2,254,574.5	1,142.10
	341	6,150,592.5	2,254,536.8	1,142.10
	340	6,150,628.0	2,254,479.2	1,141.00
	339	6,150,692.0	2,254,423.8	1,139.00
	338	6,150,711.5	2,254,389.0	1,140.00
	337	6,150,718.0	2,254,365.5	1,140.00
	336	6,150,716.0	2,254,340.8	1,140.00
	335	6,150,697.0	2,254,319.5	1,140.00
	334	6,150,743.5	2,254,308.5	1,140.00
	333	6,150,780.5	2,254,294.5	1,140.00
	332	6,150,856.5	2,254,266.5	1,138.00
	331	6,150,938.0	2,254,254.0	1,135.00

	330	6,150,959.0	2,254,230.5	1,132.60
	329	6,151,007.0	2,254,226.5	1,132.60
	328	6,151,042.5	2,254,235.5	1,132.60
	327	6,151,071.0	2,254,241.2	1,132.60
	326	6,151,105.5	2,254,250.8	1,132.60
Meadow Terrain	363	6,151,847.0	2,253,771.8	1,051.00
	362	6,151,798.5	2,253,760.2	1,053.00
	361	6,151,773.5	2,253,776.8	1,055.00
	360	6,151,722.0	2,253,757.8	1,057.00
	359	6,151,683.0	2,253,747.2	1,059.00
	358	6,151,649.0	2,253,742.0	1,061.00
	357	6,151,601.0	2,253,737.2	1,063.00
	356	6,151,560.5	2,253,738.0	1,065.00
	355	6,151,520.5	2,253,741.0	1,067.00
	354	6,151,478.5	2,253,744.5	1,069.00
	353	6,151,441.5	2,253,748.2	1,071.00
	352	6,151,399.5	2,253,752.8	1,073.00
	351	6,151,362.5	2,253,755.0	1,075.00
	350	6,151,304.5	2,253,772.5	1,078.00
	349	6,151,261.5	2,253,791.0	1,080.00
	348	6,151,226.0	2,253,802.2	1,082.00
Greenriver WB	544	6,146,517.5	2,261,502.0	870.00
	543	6,146,612.0	2,261,401.8	870.00
	542	6,146,720.5	2,261,303.5	870.00
	541	6,146,818.0	2,261,209.0	870.00
	540	6,146,921.0	2,261,108.8	870.00
	539	6,147,015.5	2,261,020.0	870.00
	538	6,147,104.0	2,260,937.0	870.00
	537	6,147,231.0	2,260,823.0	870.00
	536	6,147,352.5	2,260,703.5	866.00
	535	6,147,496.0	2,260,563.8	855.00
	534	6,147,639.0	2,260,423.8	845.00
Condor	550	6,149,204.0	2,255,663.8	1,200.00
	549	6,149,228.5	2,255,621.2	1,200.00
	548	6,149,305.0	2,255,559.8	1,200.00
	547	6,149,363.5	2,255,513.5	1,200.00

	546	6,149,408.0	2,255,480.0	1,200.00
	545	6,149,422.5	2,255,440.0	1,190.00
Bonsai 1	556	6,154,527.0	2,253,236.0	1,070.00
	555	6,154,543.5	2,253,179.5	1,070.00
	554	6,154,569.0	2,253,120.5	1,070.00

LSA Associates, Inc. 15 January 2008
Jason Lui TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Foothill Parkway Westerly Extension
RUN: Future Build Barrier

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway Name	Width	Points Name	No.	Coordinates (pavement) X	Y	Z	Flow Control Control Device	Speed Constraint	Percent Vehicles Affected	Segment Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Border NB	20.0	point288	288	6,149,539.5	2,255,359.5	1,160.00				Average	
		point35	35	6,149,653.0	2,255,418.0	1,150.00				Average	
		point34	34	6,149,735.0	2,255,471.0	1,140.00				Average	
		point33	33	6,149,809.5	2,255,528.8	1,134.00				Average	
		point32	32	6,149,877.0	2,255,588.5	1,127.00				Average	
		point31	31	6,149,947.0	2,255,661.0	1,122.50				Average	
		point30	30	6,150,013.5	2,255,743.2	1,119.00				Average	
		point29	29	6,150,064.0	2,255,826.0	1,116.00				Average	
		point28	28	6,150,101.0	2,255,926.0	1,110.00				Average	
		point27	27	6,150,112.0	2,256,023.2	1,102.50				Average	
		point26	26	6,150,109.5	2,256,118.5	1,094.00				Average	
		point25	25	6,150,079.0	2,256,220.2	1,085.00				Average	
		point286	286	6,150,021.0	2,256,329.0	1,080.00					
Border SB	22.0	point289	289	6,150,009.5	2,256,320.2	1,080.00				Average	
		point287	287	6,150,064.0	2,256,213.8	1,085.00				Average	
		point46	46	6,150,090.0	2,256,118.2	1,094.00				Average	
		point45	45	6,150,092.0	2,256,025.5	1,102.50				Average	
		point44	44	6,150,083.0	2,255,931.0	1,110.00				Average	
		point43	43	6,150,046.0	2,255,835.0	1,116.00				Average	
		point42	42	6,149,999.5	2,255,752.0	1,119.00				Average	
		point41	41	6,149,937.0	2,255,674.0	1,122.50				Average	
		point40	40	6,149,867.0	2,255,603.0	1,127.00				Average	
		point39	39	6,149,799.0	2,255,548.0	1,134.00				Average	
		point38	38	6,149,719.5	2,255,492.5	1,140.00				Average	
		point37	37	6,149,638.0	2,255,446.0	1,150.00				Average	

		point36	36	6,149,523.0	2,255,385.2	1,160.00					
Mangular NB	12.0	point47	47	6,151,906.5	2,253,727.8	1,050.00				Average	
		point48	48	6,151,919.5	2,253,926.8	1,047.70				Average	
		point49	49	6,151,934.5	2,254,026.0	1,044.00				Average	
		point50	50	6,151,962.0	2,254,223.0	1,036.00				Average	
		point51	51	6,151,989.5	2,254,421.0	1,025.50				Average	
		point52	52	6,152,020.0	2,254,620.8	1,016.50				Average	
		point53	53	6,152,048.5	2,254,818.0	1,008.00				Average	
		point54	54	6,152,062.5	2,254,916.5	1,004.00				Average	
		point55	55	6,152,083.0	2,255,061.8	1,000.00					
Mangular SB	12.0	point68	68	6,152,068.5	2,255,064.5	1,000.00				Average	
		point67	67	6,152,048.0	2,254,919.2	1,004.00				Average	
		point66	66	6,152,034.0	2,254,820.8	1,008.00				Average	
		point65	65	6,152,005.5	2,254,623.5	1,016.50				Average	
		point64	64	6,151,976.5	2,254,423.2	1,025.50				Average	
		point63	63	6,151,945.5	2,254,226.5	1,036.00				Average	
		point62	62	6,151,921.5	2,254,028.8	1,044.00				Average	
		point61	61	6,151,906.5	2,253,929.5	1,047.70				Average	
		point60	60	6,151,872.5	2,253,733.0	1,050.00					
Lincoln NB	24.0	point110	110	6,155,646.5	2,252,606.0	1,080.00				Average	
		point109	109	6,155,578.5	2,252,805.5	1,070.00				Average	
		point108	108	6,155,520.0	2,253,014.0	1,060.00				Average	
		point107	107	6,155,467.0	2,253,199.2	1,050.00				Average	
		point106	106	6,155,444.5	2,253,287.5	1,045.00				Average	
		point105	105	6,155,411.5	2,253,403.5	1,045.00				Average	
		point104	104	6,155,396.0	2,253,509.2	1,040.00				Average	
		point103	103	6,155,379.5	2,253,717.0	1,030.00				Average	
		point102	102	6,155,383.0	2,253,902.2	1,020.00				Average	
		point101	101	6,155,418.0	2,254,172.0	1,010.00					
Lincoln SB	28.0	point120	120	6,155,388.5	2,254,177.0	1,010.00				Average	
		point119	119	6,155,347.0	2,253,905.2	1,020.00				Average	
		point118	118	6,155,339.0	2,253,720.0	1,030.00				Average	
		point117	117	6,155,356.0	2,253,505.0	1,040.00				Average	
		point116	116	6,155,371.5	2,253,399.0	1,045.00				Average	
		point115	115	6,155,404.5	2,253,272.5	1,045.00				Average	
		point114	114	6,155,429.5	2,253,185.5	1,050.00				Average	
		point113	113	6,155,486.0	2,252,999.0	1,060.00				Average	
		point112	112	6,155,544.5	2,252,790.8	1,070.00				Average	
		point111	111	6,155,606.0	2,252,591.2	1,080.00					

Paseo Grande NB	12.0	point139	139	6,147,600.0	2,260,484.2	847.50				Average	
		point129	129	6,147,629.5	2,260,509.5	845.00				Average	
		point128	128	6,147,675.5	2,260,559.5	840.40				Average	
		point127	127	6,147,722.5	2,260,608.0	834.60				Average	
		point126	126	6,147,766.5	2,260,659.8	830.00				Average	
		point125	125	6,147,810.0	2,260,709.0	825.00				Average	
		point124	124	6,147,845.5	2,260,753.5	821.50				Average	
		point123	123	6,147,883.5	2,260,804.8	817.00				Average	
		point122	122	6,147,908.0	2,260,855.5	814.00				Average	
		point121	121	6,147,937.5	2,260,910.5	810.00					
Paseo Grande SB	12.0	point130	130	6,147,920.0	2,260,917.5	810.00				Average	
		point131	131	6,147,893.0	2,260,861.2	814.00				Average	
		point132	132	6,147,865.5	2,260,813.5	817.00				Average	
		point133	133	6,147,829.5	2,260,760.0	821.00				Average	
		point134	134	6,147,796.5	2,260,722.0	825.00				Average	
		point135	135	6,147,753.0	2,260,672.8	830.00				Average	
		point136	136	6,147,706.0	2,260,625.0	834.60				Average	
		point137	137	6,147,659.0	2,260,576.5	840.40				Average	
		point138	138	6,147,613.5	2,260,526.5	845.00				Average	
		point140	140	6,147,590.5	2,260,503.5	847.50					
Foothill Parkway WB 1	24.0	point332	332	6,149,555.0	2,255,235.2	1,170.00				Average	
		point331	331	6,149,395.5	2,255,347.8	1,163.00				Average	
		point330	330	6,149,264.5	2,255,486.0	1,160.00				Average	
		point329	329	6,149,158.5	2,255,651.8	1,160.00				Average	
		point328	328	6,149,031.0	2,255,813.8	1,160.00				Average	
		point327	327	6,148,878.0	2,255,949.5	1,160.00				Average	
		point326	326	6,148,711.5	2,256,064.8	1,160.00				Average	
		point325	325	6,148,555.0	2,256,160.8	1,160.00				Average	
		point324	324	6,148,369.0	2,256,300.8	1,160.00				Average	
		point323	323	6,148,199.0	2,256,414.2	1,155.00				Average	
		point322	322	6,147,995.0	2,256,563.0	1,140.00				Average	
		point321	321	6,147,872.5	2,256,728.5	1,125.00				Average	
		point320	320	6,147,800.5	2,256,924.5	1,105.00				Average	
		point319	319	6,147,790.5	2,257,091.5	1,090.00				Average	
		point318	318	6,147,834.0	2,257,294.8	1,070.00				Average	
		point317	317	6,147,900.0	2,257,504.0	1,050.00				Average	
		point316	316	6,147,953.5	2,257,667.2	1,035.00				Average	
		point315	315	6,148,014.0	2,257,878.0	1,015.00				Average	
		point314	314	6,148,053.0	2,258,059.8	1,000.00				Average	

		point313	313	6,148,067.0	2,258,213.0	985.00				Average	
		point312	312	6,148,070.5	2,258,329.2	975.00				Average	
		point311	311	6,148,059.0	2,258,496.8	960.00				Average	
		point310	310	6,148,034.0	2,258,654.0	945.00				Average	
		point309	309	6,148,010.0	2,258,819.2	930.00				Average	
		point308	308	6,147,992.5	2,259,025.2	910.00				Average	
		point307	307	6,147,997.5	2,259,156.5	900.00				Average	
		point306	306	6,147,999.5	2,259,301.8	886.00				Average	
		point305	305	6,148,010.0	2,259,492.8	870.00				Average	
		point304	304	6,147,986.0	2,259,688.0	855.00				Average	
		point303	303	6,147,931.0	2,259,891.2	845.00				Average	
		point302	302	6,147,854.5	2,260,079.2	840.00				Average	
		point301	301	6,147,753.0	2,260,253.5	840.00				Average	
		point300	300	6,147,625.5	2,260,411.0	845.00				Average	
		point299	299	6,147,484.0	2,260,551.5	855.00				Average	
		point298	298	6,147,340.5	2,260,691.5	866.00				Average	
		point297	297	6,147,216.5	2,260,809.2	870.00				Average	
		point296	296	6,147,092.0	2,260,925.0	870.00				Average	
		point295	295	6,147,003.5	2,261,008.0	870.00				Average	
		point294	294	6,146,909.0	2,261,096.8	870.00				Average	
		point293	293	6,146,806.0	2,261,197.0	870.00				Average	
		point292	292	6,146,708.5	2,261,291.5	870.00				Average	
		point291	291	6,146,600.0	2,261,389.8	870.00				Average	
		point290	290	6,146,505.5	2,261,490.0	870.00					
Foothill Parkway WB 2	24.0	point369	369	6,155,341.0	2,253,327.8	1,049.20				Average	
		point368	368	6,155,247.5	2,253,295.8	1,048.60				Average	
		point367	367	6,155,058.0	2,253,225.5	1,047.20				Average	
		point366	366	6,154,874.0	2,253,155.0	1,058.20				Average	
		point365	365	6,154,684.5	2,253,087.0	1,063.60				Average	
		point364	364	6,154,495.5	2,253,016.5	1,078.00				Average	
		point363	363	6,154,309.0	2,252,947.2	1,091.90				Average	
		point362	362	6,154,122.5	2,252,877.0	1,101.40				Average	
		point361	361	6,153,935.5	2,252,809.0	1,107.50				Average	
		point360	360	6,153,743.0	2,252,739.8	1,108.50				Average	
		point359	359	6,153,467.0	2,252,640.8	1,105.00				Average	
		point358	358	6,153,274.5	2,252,595.0	1,103.00				Average	
		point357	357	6,153,079.0	2,252,575.2	1,101.00				Average	
		point356	356	6,152,882.5	2,252,569.0	1,099.00				Average	
		point355	355	6,152,687.0	2,252,600.0	1,087.00				Average	

		point354	354	6,152,493.0	2,252,639.5	1,084.00				Average	
		point353	353	6,152,308.0	2,252,706.2	1,080.00				Average	
		point352	352	6,152,127.5	2,252,790.5	1,080.00				Average	
		point351	351	6,151,963.0	2,252,894.2	1,080.00				Average	
		point350	350	6,151,809.5	2,253,017.8	1,080.00				Average	
		point349	349	6,151,673.0	2,253,125.0	1,075.00				Average	
		point348	348	6,151,481.5	2,253,319.5	1,085.00				Average	
		point347	347	6,151,391.5	2,253,416.2	1,090.00				Average	
		point346	346	6,151,215.0	2,253,599.8	1,105.00				Average	
		point345	345	6,151,073.0	2,253,732.0	1,115.00				Average	
		point344	344	6,150,923.5	2,253,874.2	1,125.00				Average	
		point343	343	6,150,776.0	2,254,011.2	1,135.00				Average	
		point342	342	6,150,677.5	2,254,143.8	1,145.00				Average	
		point341	341	6,150,562.5	2,254,304.5	1,160.00				Average	
		point340	340	6,150,456.0	2,254,472.5	1,170.00				Average	
		point339	339	6,150,356.0	2,254,644.5	1,180.00				Average	
		point338	338	6,150,235.0	2,254,808.8	1,180.00				Average	
		point337	337	6,150,085.5	2,254,948.5	1,180.00				Average	
		point336	336	6,149,918.5	2,255,067.0	1,180.00				Average	
		point335	335	6,149,738.0	2,255,150.0	1,179.00				Average	
		point334	334	6,149,556.0	2,255,235.2	1,070.00					
Foothill Parkway EB 1	24.0	point413	413	6,146,473.5	2,261,459.5	870.00				Average	
		point412	412	6,146,568.0	2,261,359.5	870.00				Average	
		point411	411	6,146,676.5	2,261,261.0	870.00				Average	
		point410	410	6,146,774.0	2,261,166.5	870.00				Average	
		point409	409	6,146,877.0	2,261,066.5	870.00				Average	
		point408	408	6,146,971.5	2,260,977.5	870.00				Average	
		point407	407	6,147,060.5	2,260,894.5	870.00				Average	
		point406	406	6,147,184.5	2,260,779.0	870.00				Average	
		point405	405	6,147,308.5	2,260,661.0	866.00				Average	
		point404	404	6,147,452.5	2,260,521.2	855.00				Average	
		point403	403	6,147,593.5	2,260,380.5	845.00				Average	
		point402	402	6,147,715.0	2,260,230.8	840.00				Average	
		point401	401	6,147,816.5	2,260,056.5	840.00				Average	
		point400	400	6,147,891.5	2,259,877.8	845.00				Average	
		point399	399	6,147,951.5	2,259,687.8	855.00				Average	
		point398	398	6,147,976.0	2,259,493.0	870.00				Average	
		point397	397	6,147,963.0	2,259,299.0	886.00				Average	
		point396	396	6,147,956.5	2,259,158.8	900.00				Average	

		point395	395	6,147,952.0	2,259,027.2	910.00				Average	
		point394	394	6,147,970.5	2,258,811.8	930.00				Average	
		point393	393	6,147,991.5	2,258,653.8	945.00				Average	
		point392	392	6,148,017.0	2,258,492.5	960.00				Average	
		point391	391	6,148,029.5	2,258,329.0	975.00				Average	
		point390	390	6,148,026.0	2,258,212.5	985.00				Average	
		point389	389	6,148,009.5	2,258,064.0	1,000.00				Average	
		point388	388	6,147,974.5	2,257,890.0	1,015.00				Average	
		point387	387	6,147,913.0	2,257,682.2	1,035.00				Average	
		point386	386	6,147,859.5	2,257,519.0	1,050.00				Average	
		point385	385	6,147,798.0	2,257,313.2	1,070.00				Average	
		point384	384	6,147,754.0	2,257,105.0	1,090.00				Average	
		point383	383	6,147,761.5	2,256,927.0	1,105.00				Average	
		point382	382	6,147,838.0	2,256,719.0	1,125.00				Average	
		point381	381	6,147,961.5	2,256,546.0	1,140.00				Average	
		point380	380	6,148,173.5	2,256,384.0	1,155.00				Average	
		point379	379	6,148,355.0	2,256,263.8	1,160.00				Average	
		point378	378	6,148,540.0	2,256,130.5	1,160.00				Average	
		point377	377	6,148,693.0	2,256,027.0	1,160.00				Average	
		point376	376	6,148,854.0	2,255,916.5	1,160.00				Average	
		point375	375	6,149,003.0	2,255,785.5	1,160.00				Average	
		point374	374	6,149,120.0	2,255,629.5	1,160.00				Average	
		point373	373	6,149,226.0	2,255,456.8	1,160.00				Average	
		point372	372	6,149,368.0	2,255,307.5	1,163.00				Average	
		point371	371	6,149,531.0	2,255,187.2	1,170.00					
Foothill Parkway EB 2	24.0	point449	449	6,149,531.0	2,255,187.2	1,170.00				Average	
		point448	448	6,149,719.5	2,255,100.0	1,179.00				Average	
		point447	447	6,149,891.5	2,255,019.0	1,180.00				Average	
		point446	446	6,150,054.5	2,254,911.5	1,180.00				Average	
		point445	445	6,150,194.5	2,254,776.2	1,180.00				Average	
		point444	444	6,150,313.0	2,254,615.0	1,180.00				Average	
		point443	443	6,150,412.5	2,254,446.5	1,170.00				Average	
		point442	442	6,150,517.5	2,254,275.8	1,160.00				Average	
		point441	441	6,150,636.0	2,254,111.2	1,145.00				Average	
		point440	440	6,150,739.5	2,253,977.5	1,135.00				Average	
		point439	439	6,150,890.0	2,253,834.5	1,125.00				Average	
		point438	438	6,151,040.0	2,253,692.2	1,115.00				Average	
		point437	437	6,151,175.0	2,253,559.5	1,105.00				Average	
		point436	436	6,151,356.5	2,253,379.8	1,090.00				Average	

		point435	435	6,151,447.0	2,253,285.0	1,085.00				Average	
		point434	434	6,151,635.0	2,253,088.5	1,075.00				Average	
		point433	433	6,151,779.0	2,252,976.2	1,080.00				Average	
		point432	432	6,151,932.0	2,252,852.5	1,080.00				Average	
		point431	431	6,152,105.0	2,252,738.5	1,080.00				Average	
		point430	430	6,152,289.5	2,252,652.5	1,080.00				Average	
		point429	429	6,152,480.5	2,252,585.8	1,084.00				Average	
		point428	428	6,152,674.5	2,252,546.2	1,087.00				Average	
		point427	427	6,152,881.0	2,252,517.8	1,099.00				Average	
		point426	426	6,153,086.5	2,252,521.5	1,101.00				Average	
		point425	425	6,153,284.5	2,252,544.5	1,103.00				Average	
		point424	424	6,153,483.0	2,252,591.5	1,105.00				Average	
		point423	423	6,153,765.0	2,252,688.5	1,108.50				Average	
		point422	422	6,153,951.5	2,252,757.0	1,107.50				Average	
		point421	421	6,154,138.0	2,252,825.0	1,101.40				Average	
		point420	420	6,154,324.5	2,252,898.0	1,091.10				Average	
		point419	419	6,154,511.5	2,252,967.2	1,078.00				Average	
		point418	418	6,154,701.5	2,253,038.2	1,063.60				Average	
		point417	417	6,154,891.0	2,253,106.2	1,058.40				Average	
		point416	416	6,155,075.5	2,253,180.0	1,047.20				Average	
		point415	415	6,155,263.5	2,253,249.8	1,048.60				Average	
		point414	414	6,155,359.0	2,253,284.2	1,049.20					
Chase WB	12.0	point457	457	6,151,786.0	2,253,705.0	1,050.00				Average	
		point456	456	6,151,657.5	2,253,703.5	1,060.00				Average	
		point455	455	6,151,565.0	2,253,704.5	1,070.00				Average	
		point454	454	6,151,474.0	2,253,704.8	1,080.00				Average	
		point453	453	6,151,381.5	2,253,700.5	1,090.00				Average	
		point452	452	6,151,254.0	2,253,668.2	1,100.00					
Chase EB	12.0	point463	463	6,151,263.0	2,253,650.8	1,100.00				Average	
		point462	462	6,151,383.5	2,253,679.8	1,090.00				Average	
		point461	461	6,151,474.0	2,253,683.2	1,080.00				Average	
		point460	460	6,151,565.5	2,253,682.0	1,070.00				Average	
		point459	459	6,151,659.5	2,253,678.2	1,060.00				Average	
		point458	458	6,151,786.0	2,253,678.8	1,050.00					

LSA Associates, Inc. 15 January 2008
Jason Lui TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Foothill Parkway Westerly Extension
RUN: Future Build Barrier

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria Existing LAeq1h	Impact Criteria LAeq1h	Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
R-1	1	1	6,147,296.5	2,260,813.2	858.00	5.00	0.00	66	12.0	5.0	
R-2	2	1	6,147,392.0	2,260,721.0	851.00	5.00	0.00	66	12.0	5.0	
R-3	3	1	6,147,482.5	2,260,629.0	842.30	5.00	0.00	66	12.0	5.0	
R-4	4	1	6,147,599.5	2,260,558.8	842.30	5.00	0.00	66	12.0	5.0	
R-5	5	1	6,147,675.0	2,260,640.0	839.00	5.00	0.00	66	12.0	5.0	
R-6	6	1	6,147,760.5	2,260,732.5	835.00	5.00	0.00	66	12.0	5.0	
R-7	7	1	6,148,090.0	2,260,390.0	852.00	5.00	0.00	66	12.0	5.0	
R-8	8	1	6,148,090.0	2,260,206.5	862.00	5.00	0.00	66	12.0	5.0	
R-9	9	1	6,148,100.0	2,260,020.0	878.10	5.00	0.00	66	12.0	5.0	
R-10	10	1	6,148,161.5	2,259,833.8	891.00	5.00	0.00	66	12.0	5.0	
R-11	11	1	6,148,215.5	2,259,655.2	900.30	5.00	0.00	66	12.0	5.0	
R-12	12	1	6,148,357.0	2,260,180.0	862.00	5.00	0.00	66	12.0	5.0	
R-13	13	1	6,148,376.5	2,260,008.8	878.10	5.00	0.00	66	12.0	5.0	
R-14	14	1	6,148,420.0	2,259,830.2	891.00	5.00	0.00	66	12.0	5.0	
R-15	15	1	6,148,405.5	2,259,605.5	910.00	5.00	0.00	66	12.0	5.0	
R-16	16	1	6,148,451.5	2,259,547.2	920.00	5.00	0.00	66	12.0	5.0	
R-17	17	1	6,148,539.0	2,259,368.8	940.00	5.00	0.00	66	12.0	5.0	
R-18	18	1	6,148,529.0	2,259,068.8	960.00	5.00	0.00	66	12.0	5.0	
R-19	19	1	6,148,687.5	2,258,960.5	980.00	5.00	0.00	66	12.0	5.0	
R-20	20	1	6,148,801.0	2,258,848.0	990.00	5.00	0.00	66	12.0	5.0	
R-21	21	1	6,148,993.0	2,258,782.8	1,000.00	5.00	0.00	66	12.0	5.0	
R-22	22	1	6,148,645.5	2,259,323.0	960.00	5.00	0.00	66	12.0	5.0	

R-23	23	1	6,148,819.0	2,259,245.2	980.00	5.00	0.00	66	12.0	5.0	
R-24	24	1	6,148,931.5	2,259,116.0	990.00	5.00	0.00	66	12.0	5.0	
R-25	25	1	6,149,086.0	2,259,084.0	1,000.00	5.00	0.00	66	12.0	5.0	
R-26	26	1	6,148,414.0	2,258,092.0	1,100.00	5.00	0.00	66	12.0	5.0	
R-27	27	1	6,148,523.0	2,258,027.2	1,100.00	5.00	0.00	66	12.0	5.0	
R-28	28	1	6,148,582.5	2,257,946.0	1,100.00	5.00	0.00	66	12.0	5.0	
R-29	29	1	6,148,430.5	2,257,914.5	1,100.00	5.00	0.00	66	12.0	5.0	
R-30	30	1	6,148,343.0	2,257,782.5	1,100.00	5.00	0.00	66	12.0	5.0	
R-31	31	1	6,148,538.5	2,257,707.8	1,100.00	5.00	0.00	66	12.0	5.0	
R-32	32	1	6,148,449.5	2,257,682.2	1,100.00	5.00	0.00	66	12.0	5.0	
R-33	33	1	6,148,396.5	2,257,589.8	1,100.00	5.00	0.00	66	12.0	5.0	
R-34	34	1	6,148,392.5	2,257,499.8	1,100.00	5.00	0.00	66	12.0	5.0	
R-35	35	1	6,148,344.5	2,257,455.2	1,100.00	5.00	0.00	66	12.0	5.0	
R-36	36	1	6,148,246.5	2,257,402.0	1,100.00	5.00	0.00	66	12.0	5.0	
R-37	37	1	6,148,058.0	2,256,934.0	1,154.10	5.00	0.00	66	12.0	5.0	
R-38	38	1	6,148,110.0	2,256,973.0	1,153.40	5.00	0.00	66	12.0	5.0	
R-39	39	1	6,148,220.0	2,256,944.2	1,152.40	5.00	0.00	66	12.0	5.0	
R-40	40	1	6,148,331.5	2,256,844.2	1,148.40	5.00	0.00	66	12.0	5.0	
R-41	41	1	6,148,407.5	2,256,769.2	1,149.00	5.00	0.00	66	12.0	5.0	
R-42	42	1	6,148,509.0	2,256,670.5	1,151.00	5.00	0.00	66	12.0	5.0	
R-43	43	1	6,148,179.5	2,257,106.8	1,152.40	5.00	0.00	66	12.0	5.0	
R-44	44	1	6,148,288.5	2,256,963.2	1,152.40	5.00	0.00	66	12.0	5.0	
R-45	45	1	6,148,367.0	2,256,881.0	1,148.40	5.00	0.00	66	12.0	5.0	
R-46	46	1	6,148,442.0	2,256,793.5	1,149.00	5.00	0.00	66	12.0	5.0	
R-47	47	1	6,148,550.0	2,256,707.2	1,151.00	5.00	0.00	66	12.0	5.0	
R-48	48	1	6,148,922.0	2,256,543.8	1,140.00	5.00	0.00	66	12.0	5.0	
R-49	49	1	6,148,951.0	2,256,642.5	1,140.00	5.00	0.00	66	12.0	5.0	
R-50	50	1	6,149,114.0	2,256,421.0	1,140.00	5.00	0.00	66	12.0	5.0	
R-51	51	1	6,149,214.5	2,256,510.8	1,140.00	5.00	0.00	66	12.0	5.0	
R-52	52	1	6,149,090.0	2,256,074.2	1,121.00	5.00	0.00	66	12.0	5.0	
R-53	53	1	6,149,205.5	2,255,945.0	1,114.00	5.00	0.00	66	12.0	5.0	
R-54	54	1	6,149,326.5	2,255,971.0	1,114.00	5.00	0.00	66	12.0	5.0	
R-55	55	1	6,149,294.5	2,255,675.8	1,188.00	5.00	0.00	66	12.0	5.0	
R-56	56	1	6,149,409.0	2,255,723.2	1,173.00	5.00	0.00	66	12.0	5.0	
R-57	57	1	6,149,519.5	2,255,495.0	1,185.00	5.00	0.00	66	12.0	5.0	
R-58	58	1	6,149,610.5	2,255,592.0	1,171.00	5.00	0.00	66	12.0	5.0	

R-59	59	1	6,149,670.0	2,255,639.8	1,158.00	5.00	0.00	66	12.0	5.0	
R-60	60	1	6,149,814.0	2,255,718.2	1,143.00	5.00	0.00	66	12.0	5.0	
R-61	61	1	6,149,941.5	2,255,777.8	1,129.00	5.00	0.00	66	12.0	5.0	
R-62	62	1	6,149,985.0	2,256,054.0	1,114.00	5.00	0.00	66	12.0	5.0	
R-63	63	1	6,150,222.0	2,255,979.8	1,096.00	5.00	0.00	66	12.0	5.0	
R-64	64	1	6,150,460.5	2,255,737.5	1,085.00	5.00	0.00	66	12.0	5.0	
R-65	65	1	6,150,339.0	2,255,617.2	1,100.00	5.00	0.00	66	12.0	5.0	
R-66	66	1	6,150,384.5	2,255,516.8	1,108.00	5.00	0.00	66	12.0	5.0	
R-67	67	1	6,150,491.5	2,255,482.5	1,107.00	5.00	0.00	66	12.0	5.0	
R-68	68	1	6,150,598.0	2,255,516.8	1,100.00	5.00	0.00	66	12.0	5.0	
R-69	69	1	6,150,659.0	2,255,571.8	1,085.00	5.00	0.00	66	12.0	5.0	
R-70	70	1	6,150,469.0	2,255,276.0	1,122.40	5.00	0.00	66	12.0	5.0	
R-71	71	1	6,150,564.0	2,255,267.0	1,122.40	5.00	0.00	66	12.0	5.0	
R-72	72	1	6,150,655.5	2,255,172.0	1,121.70	5.00	0.00	66	12.0	5.0	
R-73	73	1	6,150,701.5	2,255,018.5	1,117.50	5.00	0.00	66	12.0	5.0	
R-74	74	1	6,150,752.0	2,254,860.8	1,110.00	5.00	0.00	66	12.0	5.0	
R-75	75	1	6,150,754.0	2,254,321.8	1,140.00	5.00	0.00	66	12.0	5.0	
R-76	76	1	6,150,901.0	2,254,271.8	1,134.70	5.00	0.00	66	12.0	5.0	
R-77	77	1	6,151,068.0	2,254,250.0	1,132.60	5.00	0.00	66	12.0	5.0	
R-78	78	1	6,150,608.5	2,254,598.5	1,142.10	5.00	0.00	66	12.0	5.0	
R-79	79	1	6,150,792.5	2,254,601.5	1,140.00	5.00	0.00	66	12.0	5.0	
R-80	80	1	6,150,981.5	2,254,495.2	1,133.00	5.00	0.00	66	12.0	5.0	
R-81	81	1	6,151,046.0	2,254,057.5	1,088.70	5.00	0.00	66	12.0	5.0	
R-82	82	1	6,151,274.0	2,253,808.0	1,078.00	5.00	0.00	66	12.0	5.0	
R-83	83	1	6,151,473.5	2,253,757.0	1,072.00	5.00	0.00	66	12.0	5.0	
R-84	84	1	6,151,662.0	2,253,757.0	1,061.80	5.00	0.00	66	12.0	5.0	
R-85	85	1	6,151,740.5	2,253,777.2	1,057.00	5.00	0.00	66	12.0	5.0	
R-86	86	1	6,151,444.5	2,253,976.5	1,071.00	5.00	0.00	66	12.0	5.0	
R-87	87	1	6,151,645.0	2,254,025.8	1,058.00	5.00	0.00	66	12.0	5.0	
R-88	88	1	6,151,830.5	2,254,048.0	1,052.80	5.00	0.00	66	12.0	5.0	
R-89	89	1	6,151,783.0	2,254,134.8	1,046.60	5.00	0.00	66	12.0	5.0	
R-90	90	1	6,151,723.5	2,253,445.5	1,059.50	5.00	0.00	66	12.0	5.0	
R-91	1	1	6,151,892.0	2,253,173.2	1,060.00	5.00	0.00	66	12.0	5.0	
R-92	91	1	6,152,179.5	2,253,351.8	1,050.00	5.00	0.00	66	12.0	5.0	
R-93	92	1	6,152,317.5	2,253,406.2	1,050.00	5.00	0.00	66	12.0	5.0	
R-94	93	1	6,150,473.0	2,253,675.0	1,131.80	5.00	0.00	66	12.0	5.0	

R-95	94	1	6,150,986.5	2,253,355.8	1,224.30	5.00	0.00	66	12.0	5.0	
R-96	95	1	6,151,376.0	2,252,586.8	1,121.50	5.00	0.00	66	12.0	5.0	
R-97	96	1	6,151,504.5	2,252,650.5	1,101.70	5.00	0.00	66	12.0	5.0	
R-98	97	1	6,151,662.5	2,252,884.5	1,092.00	5.00	0.00	66	12.0	5.0	
R-99	98	1	6,151,796.0	2,252,658.5	1,093.40	5.00	0.00	66	12.0	5.0	
R-100	99	1	6,151,748.0	2,252,582.8	1,094.40	5.00	0.00	66	12.0	5.0	
R-101	100	1	6,151,937.0	2,252,615.0	1,085.00	5.00	0.00	66	12.0	5.0	
R-102	101	1	6,152,108.0	2,252,658.5	1,085.80	5.00	0.00	66	12.0	5.0	
R-103	102	1	6,152,189.0	2,252,576.5	1,085.40	5.00	0.00	66	12.0	5.0	
R-104	103	1	6,152,223.5	2,252,435.0	1,086.60	5.00	0.00	66	12.0	5.0	
R-105	104	1	6,152,270.0	2,252,296.0	1,087.90	5.00	0.00	66	12.0	5.0	
R-106	105	1	6,152,324.0	2,252,167.5	1,090.60	5.00	0.00	66	12.0	5.0	
R-107	106	1	6,152,152.0	2,252,913.8	1,063.00	5.00	0.00	66	12.0	5.0	
R-108	107	1	6,152,237.5	2,252,892.0	1,062.50	5.00	0.00	66	12.0	5.0	
R-109	108	1	6,152,504.0	2,252,706.2	1,087.00	5.00	0.00	66	12.0	5.0	
R-110	110	1	6,152,556.5	2,252,821.5	1,085.40	5.00	0.00	66	12.0	5.0	
R-111	111	1	6,152,620.5	2,252,942.0	1,082.00	5.00	0.00	66	12.0	5.0	
R-112	112	1	6,152,669.0	2,253,065.0	1,080.00	5.00	0.00	66	12.0	5.0	
R-113	113	1	6,152,796.0	2,252,651.2	1,087.00	5.00	0.00	66	12.0	5.0	
R-114	114	1	6,152,812.5	2,252,729.2	1,086.00	5.00	0.00	66	12.0	5.0	
R-115	115	1	6,152,839.5	2,252,635.8	1,090.00	5.00	0.00	66	12.0	5.0	
R-116	116	1	6,153,066.5	2,252,633.2	1,091.10	5.00	0.00	66	12.0	5.0	
R-117	117	1	6,153,189.5	2,252,629.2	1,096.60	5.00	0.00	66	12.0	5.0	
R-118	118	1	6,153,379.0	2,252,673.0	1,097.50	5.00	0.00	66	12.0	5.0	
R-119	119	1	6,153,536.5	2,252,710.0	1,102.00	5.00	0.00	66	12.0	5.0	
R-120	120	1	6,153,683.5	2,252,770.2	1,103.30	5.00	0.00	66	12.0	5.0	
R-121	121	1	6,153,826.0	2,252,844.5	1,104.20	5.00	0.00	66	12.0	5.0	
R-122	122	1	6,153,204.0	2,252,297.8	1,114.00	5.00	0.00	66	12.0	5.0	
R-123	123	1	6,153,261.0	2,252,374.5	1,114.00	5.00	0.00	66	12.0	5.0	
R-124	124	1	6,153,361.0	2,252,436.0	1,120.00	5.00	0.00	66	12.0	5.0	
R-125	125	1	6,153,509.5	2,252,495.8	1,120.00	5.00	0.00	66	12.0	5.0	
R-126	126	1	6,153,723.5	2,252,592.2	1,120.00	5.00	0.00	66	12.0	5.0	
R-127	127	1	6,153,868.0	2,252,659.8	1,120.00	5.00	0.00	66	12.0	5.0	
R-128	128	1	6,154,101.0	2,252,655.0	1,140.00	5.00	0.00	66	12.0	5.0	
R-129	129	1	6,154,355.5	2,252,733.2	1,140.00	5.00	0.00	66	12.0	5.0	
R-130	130	1	6,154,442.0	2,252,795.5	1,140.00	5.00	0.00	66	12.0	5.0	

R-131	131	1	6,154,626.5	2,252,860.5	1,140.00	5.00	0.00	66	12.0	5.0	
R-132	132	1	6,154,769.0	2,252,912.5	1,140.00	5.00	0.00	66	12.0	5.0	
R-133	133	1	6,154,944.5	2,252,958.2	1,140.00	5.00	0.00	66	12.0	5.0	
R-134	134	1	6,155,105.0	2,252,863.8	1,140.00	5.00	0.00	66	12.0	5.0	
R-135	135	1	6,153,968.0	2,252,889.5	1,104.50	5.00	0.00	66	12.0	5.0	
R-136	136	1	6,154,099.0	2,252,946.8	1,099.20	5.00	0.00	66	12.0	5.0	
R-137	137	1	6,154,229.5	2,252,989.5	1,093.50	5.00	0.00	66	12.0	5.0	
R-138	138	1	6,154,399.5	2,253,058.5	1,088.00	5.00	0.00	66	12.0	5.0	
R-139	139	1	6,154,510.0	2,253,107.0	1,086.70	5.00	0.00	66	12.0	5.0	
R-140	140	1	6,154,479.5	2,253,189.5	1,085.70	5.00	0.00	66	12.0	5.0	
R-141	141	1	6,154,560.5	2,253,232.5	1,068.00	5.00	0.00	66	12.0	5.0	
R-142	142	1	6,154,941.5	2,253,280.0	1,050.00	5.00	0.00	66	12.0	5.0	
R-143	143	1	6,154,925.0	2,253,349.0	1,050.00	5.00	0.00	66	12.0	5.0	
R-144	144	1	6,154,998.5	2,253,394.2	1,050.00	5.00	0.00	66	12.0	5.0	
R-145	145	1	6,155,048.5	2,253,308.5	1,050.00	5.00	0.00	66	12.0	5.0	
R-146	146	1	6,155,139.0	2,253,337.2	1,048.00	5.00	0.00	66	12.0	5.0	
R-147	147	1	6,155,241.5	2,253,382.5	1,048.00	5.00	0.00	66	12.0	5.0	Y
R-148	148	1	6,155,296.5	2,253,465.8	1,037.00	5.00	0.00	66	12.0	5.0	
R-149	149	1	6,155,341.5	2,253,175.2	1,050.00	5.00	0.00	66	12.0	5.0	
R-150	150	1	6,155,420.0	2,253,004.0	1,060.00	5.00	0.00	66	12.0	5.0	

LSA Associates, Inc. 15 January 2008
Jason Lui TNM 2.5

INPUT: BUILDING ROWS
PROJECT/CONTRACT: Foothill Parkway Westerly Extension
RUN: Future Build Barrier

Building Row			Points			
Name	Average	Building	No.	Coordinates (ground)		
	Height	Percent		X	Y	Z
	ft	%		ft	ft	ft
Building1	20.00	80	4	6,147,502.5	2,260,615.0	842.30
			3	6,147,424.0	2,260,693.8	848.00
			2	6,147,371.0	2,260,752.8	853.00
			1	6,147,286.5	2,260,836.8	858.00
Building2	20.00	80	7	6,147,575.5	2,260,538.0	843.00
			6	6,147,636.0	2,260,602.2	843.00
			5	6,147,695.5	2,260,667.5	839.00

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INPUT: BARRIERS
PROJECT/CONTRACT: Foothill Parkway Westerly Extension
RUN: Future Build Barrier

Barrier Name	Type	Height Min	Height Max	If Wall $ per Unit Area	If Berm $ per Unit Vol.	Top Width	Run:Rise	Add'tnl $ per Unit Length	Points Name	No.	Coordinates (bottom) X	Y	Z	Height at Point	Segment Seg Ht Increment	Perturbs #Up	#Dn	On Struct?	Important Reflections?
		ft	ft	$/sq ft	$/cu yd	ft	ft:ft	$/ft			ft	ft	ft	ft	ft				
Existing Wall 1	W	0.00	99.99	0.00				0.00	point33	33	6,152,591.0	2,252,923.5	1,084.00	6.00	0.00	0	0		
									point32	32	6,152,562.0	2,252,866.5	1,085.00	6.00	0.00	0	0		
									point31	31	6,152,530.0	2,252,804.2	1,086.30	6.00	0.00	0	0		
									point30	30	6,152,502.5	2,252,746.8	1,087.00	6.00	0.00	0	0		
									point29	29	6,152,486.0	2,252,679.0	1,087.00	6.00	0.00	0	0		
									point28	28	6,152,493.5	2,252,658.5	1,090.00	6.00	0.00	0	0		
									point27	27	6,152,553.5	2,252,643.2	1,095.00	6.00	0.00	0	0		
									point26	26	6,152,639.5	2,252,625.2	1,098.00	6.00	0.00	0	0		
									point25	25	6,152,745.5	2,252,608.0	1,098.40	6.00	0.00	0	0		
									point24	24	6,152,807.0	2,252,601.0	1,098.40	6.00	0.00	0	0		
									point23	23	6,152,872.0	2,252,595.0	1,100.00	6.00	0.00	0	0		
									point22	22	6,152,956.5	2,252,591.5	1,101.80	6.00	0.00	0	0		
									point21	21	6,153,036.5	2,252,591.5	1,102.70	6.00	0.00	0	0		
									point20	20	6,153,143.0	2,252,599.2	1,104.10	6.00	0.00	0	0		
									point19	19	6,153,227.5	2,252,611.8	1,105.10	6.00	0.00	0	0		
									point18	18	6,153,365.0	2,252,644.0	1,106.80	6.00	0.00	0	0		
									point17	17	6,153,496.5	2,252,686.5	1,108.40	6.00	0.00	0	0		
									point16	16	6,153,583.0	2,252,715.8	1,109.50	6.00	0.00	0	0		
									point15	15	6,153,654.0	2,252,741.0	1,110.10	6.00	0.00	0	0		
									point14	14	6,153,740.5	2,252,775.2	1,110.00	6.00	0.00	0	0		
									point13	13	6,153,811.0	2,252,804.0	1,109.80	6.00	0.00	0	0		
									point12	12	6,153,861.5	2,252,825.2	1,108.40	6.00	0.00	0	0		
									point11	11	6,153,866.5	2,252,834.0	1,108.40	6.00	0.00	0	0		
									point10	10	6,153,867.0	2,252,842.2	1,108.40	6.00	0.00	0	0		
									point9	9	6,153,856.5	2,252,867.0	1,107.30	6.00	0.00	0	0		
									point8	8	6,153,825.5	2,252,918.2	1,105.50	6.00	0.00	0	0		
									point7	7	6,153,797.0	2,252,954.2	1,104.00	6.00					
Existing Wall 2	W	0.00	99.99	0.00				0.00	point65	65	6,153,910.5	2,252,916.5	1,106.70	6.00	0.00	0	0		
									point64	64	6,153,926.0	2,252,882.5	1,107.80	6.00	0.00	0	0		
									point63	63	6,153,935.0	2,252,867.5	1,107.00	6.00	0.00	0	0		
									point62	62	6,153,949.5	2,252,862.2	1,106.30	6.00	0.00	0	0		
									point61	61	6,154,005.0	2,252,884.2	1,104.90	6.00	0.00	0	0		
									point60	60	6,154,071.5	2,252,909.2	1,102.60	6.00	0.00	0	0		
									point59	59	6,154,139.0	2,252,933.8	1,099.90	6.00	0.00	0	0		
									point58	58	6,154,204.0	2,252,959.5	1,096.70	6.00	0.00	0	0		

									point57	57	6,154,263.5	2,252,990.5	1,093.10	6.00	0.00	0	0		
									point56	56	6,154,332.0	2,253,016.0	1,088.90	6.00	0.00	0	0		
									point55	55	6,154,431.0	2,253,054.8	1,085.00	6.00	0.00	0	0		
									point54	54	6,154,449.0	2,253,063.0	1,085.00	6.00	0.00	0	0		
									point53	53	6,154,542.5	2,253,102.5	1,085.00	6.00	0.00	0	0		
									point52	52	6,154,560.0	2,253,107.2	1,075.00	6.00	0.00	0	0		
									point51	51	6,154,582.5	2,253,106.0	1,070.00	6.00	0.00	0	0		
									point50	50	6,154,641.5	2,253,128.8	1,068.00	6.00	0.00	0	0		
									point49	49	6,154,700.0	2,253,145.5	1,064.00	6.00	0.00	0	0		
									point48	48	6,154,762.0	2,253,170.5	1,063.00	6.00	0.00	0	0		
									point47	47	6,154,819.5	2,253,189.5	1,058.00	6.00	0.00	0	0		
									point46	46	6,154,881.5	2,253,211.0	1,054.00	6.00	0.00	0	0		
									point45	45	6,154,958.0	2,253,236.0	1,050.00	6.00	0.00	0	0		
									point44	44	6,155,097.5	2,253,285.5	1,047.50	6.00	0.00	0	0		
									point43	43	6,155,220.5	2,253,332.0	1,047.70	6.00	0.00	0	0		
									point42	42	6,155,318.0	2,253,369.0	1,048.00	6.00	0.00	0	0		
									point41	41	6,155,332.0	2,253,396.5	1,045.00	6.00	0.00	0	0		
									point40	40	6,155,326.5	2,253,426.2	1,040.00	6.00	0.00	0	0		
									point39	39	6,155,311.0	2,253,522.8	1,035.00	6.00	0.00	0	0		
									point38	38	6,155,306.0	2,253,587.0	1,033.00	6.00	0.00	0	0		
									point37	37	6,155,300.0	2,253,660.5	1,030.00	6.00	0.00	0	0		
									point36	36	6,155,299.0	2,253,726.5	1,025.50	6.00					
Existing Wall 3	W	0.00	99.99	0.00				0.00	point83	83	6,154,217.0	2,252,318.0	1,140.00	6.00	0.00	0	0		
									point82	82	6,154,161.0	2,252,389.5	1,140.00	6.00	0.00	0	0		
									point81	81	6,154,128.5	2,252,480.0	1,140.00	6.00	0.00	0	0		
									point80	80	6,154,106.5	2,252,580.2	1,140.00	6.00	0.00	0	0		
									point79	79	6,154,075.0	2,252,683.5	1,140.00	6.00	0.00	0	0		
									point78	78	6,154,165.5	2,252,725.0	1,140.00	6.00	0.00	0	0		
									point77	77	6,154,230.0	2,252,746.5	1,140.00	6.00	0.00	0	0		
									point76	76	6,154,307.5	2,252,766.5	1,140.00	6.00	0.00	0	0		
									point75	75	6,154,386.5	2,252,782.5	1,140.00	6.00	0.00	0	0		
									point74	74	6,154,409.0	2,252,824.0	1,140.00	6.00	0.00	0	0		
									point73	73	6,154,518.0	2,252,854.0	1,140.00	6.00	0.00	0	0		
									point72	72	6,154,651.5	2,252,885.5	1,140.00	6.00	0.00	0	0		
									point71	71	6,154,646.0	2,252,915.8	1,140.00	6.00	0.00	0	0		
									point70	70	6,154,726.0	2,252,930.0	1,140.00	6.00	0.00	0	0		
									point69	69	6,154,806.5	2,252,950.0	1,140.00	6.00	0.00	0	0		
									point68	68	6,154,894.0	2,252,971.5	1,140.00	6.00	0.00	0	0		
									point67	67	6,154,962.5	2,253,001.8	1,140.00	6.00	0.00	0	0		
									point66	66	6,155,005.5	2,252,927.2	1,140.00	6.00					
Existing Wall 4	W	0.00	99.99	0.00				0.00	point89	89	6,155,030.0	2,252,895.5	1,140.00	6.00	0.00	0	0		
									point88	88	6,155,113.0	2,252,887.0	1,140.00	6.00	0.00	0	0		
									point87	87	6,155,110.5	2,252,816.8	1,140.00	6.00	0.00	0	0		
									point86	86	6,155,104.5	2,252,746.5	1,140.00	6.00	0.00	0	0		
									point85	85	6,155,099.0	2,252,676.2	1,140.00	6.00	0.00	0	0		
									point84	84	6,155,089.0	2,252,607.5	1,140.00	6.00					
Existing Wall 5	W	0.00	99.99	0.00				0.00	point105	105	6,155,270.5	2,253,023.0	1,050.00	6.00	0.00	0	0		
									point104	104	6,155,281.0	2,253,105.5	1,050.00	6.00	0.00	0	0		
									point103	103	6,155,294.5	2,253,175.2	1,050.00	6.00	0.00	0	0		

									point102	102	6,155,296.0	2,253,203.8	1,050.00	6.00	0.00	0	0			
									point101	101	6,155,331.5	2,253,227.8	1,050.00	6.00	0.00	0	0			
									point100	100	6,155,374.5	2,253,207.2	1,050.00	6.00	0.00	0	0			
									point99	99	6,155,404.5	2,253,114.5	1,055.00	6.00	0.00	0	0			
									point98	98	6,155,424.0	2,253,049.5	1,060.00	6.00	0.00	0	0			
									point97	97	6,155,444.5	2,252,982.0	1,060.00	6.00	0.00	0	0			
									point96	96	6,155,460.5	2,252,922.5	1,060.00	6.00	0.00	0	0			
									point95	95	6,155,476.5	2,252,872.2	1,060.00	6.00	0.00	0	0			
									point94	94	6,155,493.5	2,252,809.2	1,060.00	6.00						
Existing Wall 6	W	0.00	99.99	0.00				0.00	point132	132	6,153,924.5	2,252,619.0	1,120.00	6.00	0.00	0	0			
									point131	131	6,153,910.0	2,252,647.5	1,120.00	6.00	0.00	0	0			
									point130	130	6,153,899.0	2,252,667.2	1,120.00	6.00	0.00	0	0			
									point129	129	6,153,891.5	2,252,676.0	1,120.00	6.00	0.00	0	0			
									point128	128	6,153,881.0	2,252,677.0	1,120.00	6.00	0.00	0	0			
									point127	127	6,153,868.5	2,252,673.0	1,120.00	6.00	0.00	0	0			
									point126	126	6,153,832.5	2,252,660.5	1,120.00	6.00	0.00	0	0			
									point125	125	6,153,828.5	2,252,652.8	1,120.00	6.00	0.00	0	0			
									point124	124	6,153,793.5	2,252,638.2	1,120.00	6.00	0.00	0	0			
									point123	123	6,153,761.5	2,252,626.2	1,120.00	6.00	0.00	0	0			
									point122	122	6,153,757.0	2,252,617.5	1,120.00	6.00	0.00	0	0			
									point121	121	6,153,721.0	2,252,605.2	1,120.00	6.00	0.00	0	0			
									point120	120	6,153,685.5	2,252,590.8	1,120.00	6.00	0.00	0	0			
									point119	119	6,153,681.0	2,252,581.5	1,120.00	6.00	0.00	0	0			
									point118	118	6,153,643.0	2,252,568.0	1,120.00	6.00	0.00	0	0			
									point117	117	6,153,614.0	2,252,557.0	1,120.00	6.00	0.00	0	0			
									point116	116	6,153,608.0	2,252,546.8	1,120.00	6.00	0.00	0	0			
									point115	115	6,153,576.5	2,252,535.8	1,120.00	6.00	0.00	0	0			
									point114	114	6,153,540.0	2,252,523.5	1,120.00	6.00	0.00	0	0			
									point113	113	6,153,535.5	2,252,512.5	1,120.00	6.00	0.00	0	0			
									point112	112	6,153,502.5	2,252,502.8	1,120.00	6.00	0.00	0	0			
									point111	111	6,153,485.5	2,252,488.0	1,120.00	6.00	0.00	0	0			
									point110	110	6,153,473.5	2,252,486.0	1,120.00	6.00	0.00	0	0			
									point109	109	6,153,467.5	2,252,474.8	1,120.00	6.00	0.00	0	0			
									point108	108	6,153,427.0	2,252,461.5	1,120.00	6.00	0.00	0	0			
									point107	107	6,153,394.5	2,252,452.8	1,120.00	6.00	0.00	0	0			
									point106	106	6,153,308.5	2,252,430.8	1,120.00	6.00						
Sound Barrier 1	W	0.00	99.99	0.00				0.00	point170	170	6,151,711.0	2,252,904.8	1,092.50	6.00	0.00	0	0			
									point169	169	6,151,715.5	2,252,920.0	1,092.70	6.00	0.00	0	0			
									point168	168	6,151,675.0	2,252,958.0	1,093.00	6.00	0.00	0	0			
									point167	167	6,151,637.5	2,252,991.0	1,093.00	6.00	0.00	0	0			
									point166	166	6,151,637.0	2,252,968.8	1,093.00	6.00						
Sound Barrier 2	W	0.00	99.99	0.00				0.00	point183	183	6,151,974.0	2,252,686.5	1,085.20	6.00	0.00	0	0			
									point182	182	6,151,988.0	2,252,708.8	1,085.20	6.00	0.00	0	0			
									point181	181	6,152,022.5	2,252,723.0	1,085.20	6.00	0.00	0	0			
									point180	180	6,152,098.5	2,252,682.2	1,085.40	6.00	0.00	0	0			
									point179	179	6,152,178.0	2,252,643.8	1,085.00	6.00	0.00	0	0			
									point178	178	6,152,227.5	2,252,619.0	1,085.00	6.00	0.00	0	0			
									point177	177	6,152,234.0	2,252,579.8	1,085.00	6.00	0.00	0	0			
									point176	176	6,152,245.0	2,252,537.5	1,085.90	6.00						

Sound Barrier 3	W	0.00	99.99	0.00				0.00	point238	238	6,153,915.5	2,252,918.5	1,106.70	6.00	2.00	5	0		
									point237	237	6,153,931.0	2,252,884.5	1,107.80	6.00	2.00	5	0		
									point236	236	6,153,939.0	2,252,870.2	1,107.00	6.00	2.00	5	0		
									point235	235	6,153,949.0	2,252,867.2	1,106.30	6.00	2.00	5	0		
									point234	234	6,154,002.5	2,252,889.5	1,104.90	6.00	2.00	5	0		
									point233	233	6,154,069.0	2,252,914.5	1,102.60	6.00	2.00	5	0		
									point232	232	6,154,136.5	2,252,939.0	1,099.90	6.00	2.00	5	0		
									point231	231	6,154,201.5	2,252,964.5	1,096.70	6.00	2.00	5	0		
									point230	230	6,154,261.0	2,252,995.5	1,093.10	6.00	2.00	5	0		
									point229	229	6,154,329.5	2,253,021.0	1,088.90	6.00	2.00	5	0		
									point228	228	6,154,428.5	2,253,060.0	1,085.00	6.00	2.00	5	0		
									point227	227	6,154,446.5	2,253,068.2	1,085.00	6.00	2.00	5	0		
									point226	226	6,154,540.0	2,253,107.5	1,085.00	6.00	2.00	5	0		
									point225	225	6,154,557.5	2,253,112.2	1,075.00	6.00	2.00	5	0		
									point224	224	6,154,580.0	2,253,111.0	1,070.00	6.00	2.00	5	0		
									point223	223	6,154,639.0	2,253,133.8	1,068.00	6.00	2.00	5	0		
									point222	222	6,154,697.5	2,253,150.5	1,064.00	6.00	2.00	5	0		
									point221	221	6,154,760.0	2,253,176.0	1,063.00	6.00	2.00	5	0		
									point220	220	6,154,818.0	2,253,195.2	1,058.00	6.00	2.00	5	0		
									point219	219	6,154,880.0	2,253,216.5	1,054.00	6.00	2.00	5	0		
									point218	218	6,154,956.0	2,253,241.8	1,050.00	6.00	2.00	5	0		
									point217	217	6,155,095.0	2,253,290.2	1,047.50	6.00	2.00	5	0		
									point216	216	6,155,218.0	2,253,336.8	1,047.70	6.00	2.00	5	0		
									point240	240	6,155,316.5	2,253,370.8	1,048.00	6.00	2.00	5	0		
									point239	239	6,155,329.5	2,253,396.5	1,045.00	6.00	2.00	5	0		
									point242	242	6,155,325.0	2,253,425.2	1,040.00	6.00	2.00	5	0		
									point241	241	6,155,307.0	2,253,522.5	1,035.00	6.00	2.00	5	0		
									point215	215	6,155,302.0	2,253,587.2	1,033.00	6.00					
Property Wall	W	0.00	99.99	0.00				0.00	point245	245	6,154,495.0	2,253,228.2	1,086.70	6.00	0.00	0	0		
									point244	244	6,154,517.0	2,253,171.2	1,086.70	6.00	0.00	0	0		
									point243	243	6,154,540.0	2,253,113.8	1,086.70	6.00					

LSA Associates, Inc. 15 January 2008
Jason Lui TNM 2.5

RESULTS: BARRIER-SEGMENT DESCRIPTIONS
PROJECT/CONTRACT: Foothill Parkway Westerly Extension
RUN: Future Build Barrier
BARRIER DESIGN: INPUT HEIGHTS

Barriers		Segments										
Name	Type	Name	No.	Heights			Length	If Wall			If Berm	Cost
				First Point	Average	Second Point		Area	On Struc?	Important Reflections?	Volume	
				ft	ft	ft	ft	sq ft			cu yd	$
Existing Wall 1	W	point33	33	6.00	6.00	6.00	64	384				0
		point32	32	6.00	6.00	6.00	70	420				0
		point31	31	6.00	6.00	6.00	64	382				0
		point30	30	6.00	6.00	6.00	70	418				0
		point29	29	6.00	6.00	6.00	22	131				0
		point28	28	6.00	6.00	6.00	62	371				0
		point27	27	6.00	6.00	6.00	88	527				0
		point26	26	6.00	6.00	6.00	107	644				0
		point25	25	6.00	6.00	6.00	62	371				0
		point24	24	6.00	6.00	6.00	65	392				0
		point23	23	6.00	6.00	6.00	85	507				0
		point22	22	6.00	6.00	6.00	80	480				0
		point21	21	6.00	6.00	6.00	107	641				0
		point20	20	6.00	6.00	6.00	85	513				0
		point19	19	6.00	6.00	6.00	141	847				0
		point18	18	6.00	6.00	6.00	138	829				0
		point17	17	6.00	6.00	6.00	91	548				0
		point16	16	6.00	6.00	6.00	75	452				0
		point15	15	6.00	6.00	6.00	93	558				0
		point14	14	6.00	6.00	6.00	76	457				0
		point13	13	6.00	6.00	6.00	55	329				0
		point12	12	6.00	6.00	6.00	10	60				0
		point11	11	6.00	6.00	6.00	8	50				0
		point10	10	6.00	6.00	6.00	27	161				0
		point9	9	6.00	6.00	6.00	60	359				0
		point8	8	6.00	6.00	6.00	46	275				0

Existing Wall 2	W	point65	65	6.00	6.00	6.00	37	224				0
		point64	64	6.00	6.00	6.00	17	105				0
		point63	63	6.00	6.00	6.00	15	93				0
		point62	62	6.00	6.00	6.00	60	358				0
		point61	61	6.00	6.00	6.00	71	426				0
		point60	60	6.00	6.00	6.00	72	431				0
		point59	59	6.00	6.00	6.00	70	419				0
		point58	58	6.00	6.00	6.00	67	403				0
		point57	57	6.00	6.00	6.00	73	439				0
		point56	56	6.00	6.00	6.00	106	638				0
		point55	55	6.00	6.00	6.00	20	119				0
		point54	54	6.00	6.00	6.00	102	609				0
		point53	53	6.00	6.00	6.00	18	109				0
		point52	52	6.00	6.00	6.00	23	135				0
		point51	51	6.00	6.00	6.00	63	379				0
		point50	50	6.00	6.00	6.00	61	365				0
		point49	49	6.00	6.00	6.00	67	401				0
		point48	48	6.00	6.00	6.00	61	363				0
		point47	47	6.00	6.00	6.00	66	394				0
		point46	46	6.00	6.00	6.00	80	483				0
		point45	45	6.00	6.00	6.00	148	888				0
		point44	44	6.00	6.00	6.00	131	789				0
		point43	43	6.00	6.00	6.00	104	626				0
		point42	42	6.00	6.00	6.00	31	185				0
		point41	41	6.00	6.00	6.00	30	182				0
		point40	40	6.00	6.00	6.00	98	586				0
		point39	39	6.00	6.00	6.00	64	387				0
		point38	38	6.00	6.00	6.00	74	442				0
		point37	37	6.00	6.00	6.00	66	396				0
Existing Wall 3	W	point83	83	6.00	6.00	6.00	91	545				0
		point82	82	6.00	6.00	6.00	96	577				0
		point81	81	6.00	6.00	6.00	103	616				0
		point80	80	6.00	6.00	6.00	108	648				0
		point79	79	6.00	6.00	6.00	100	597				0
		point78	78	6.00	6.00	6.00	68	408				0
		point77	77	6.00	6.00	6.00	80	480				0
		point76	76	6.00	6.00	6.00	81	484				0

		point75	75	6.00	6.00	6.00	47	283				0
		point74	74	6.00	6.00	6.00	113	678				0
		point73	73	6.00	6.00	6.00	137	823				0
		point72	72	6.00	6.00	6.00	31	184				0
		point71	71	6.00	6.00	6.00	81	488				0
		point70	70	6.00	6.00	6.00	83	498				0
		point69	69	6.00	6.00	6.00	90	541				0
		point68	68	6.00	6.00	6.00	75	449				0
		point67	67	6.00	6.00	6.00	86	516				0
Existing Wall 4	W	point89	89	6.00	6.00	6.00	83	501				0
		point88	88	6.00	6.00	6.00	70	422				0
		point87	87	6.00	6.00	6.00	71	423				0
		point86	86	6.00	6.00	6.00	70	423				0
		point85	85	6.00	6.00	6.00	69	417				0
Existing Wall 5	W	point105	105	6.00	6.00	6.00	83	499				0
		point104	104	6.00	6.00	6.00	71	426				0
		point103	103	6.00	6.00	6.00	29	171				0
		point102	102	6.00	6.00	6.00	43	257				0
		point101	101	6.00	6.00	6.00	48	286				0
		point100	100	6.00	6.00	6.00	97	585				0
		point99	99	6.00	6.00	6.00	68	407				0
		point98	98	6.00	6.00	6.00	71	423				0
		point97	97	6.00	6.00	6.00	62	370				0
		point96	96	6.00	6.00	6.00	53	316				0
		point95	95	6.00	6.00	6.00	65	392				0
Existing Wall 6	W	point132	132	6.00	6.00	6.00	32	192				0
		point131	131	6.00	6.00	6.00	23	136				0
		point130	130	6.00	6.00	6.00	12	69				0
		point129	129	6.00	6.00	6.00	11	63				0
		point128	128	6.00	6.00	6.00	13	79				0
		point127	127	6.00	6.00	6.00	38	229				0
		point126	126	6.00	6.00	6.00	9	52				0
		point125	125	6.00	6.00	6.00	38	227				0
		point124	124	6.00	6.00	6.00	34	205				0
		point123	123	6.00	6.00	6.00	10	59				0
		point122	122	6.00	6.00	6.00	38	228				0

		point121	121	6.00	6.00	6.00	38	230				0
		point120	120	6.00	6.00	6.00	10	62				0
		point119	119	6.00	6.00	6.00	40	242				0
		point118	118	6.00	6.00	6.00	31	186				0
		point117	117	6.00	6.00	6.00	12	71				0
		point116	116	6.00	6.00	6.00	33	200				0
		point115	115	6.00	6.00	6.00	39	231				0
		point114	114	6.00	6.00	6.00	12	71				0
		point113	113	6.00	6.00	6.00	34	206				0
		point112	112	6.00	6.00	6.00	23	135				0
		point111	111	6.00	6.00	6.00	12	73				0
		point110	110	6.00	6.00	6.00	13	76				0
		point109	109	6.00	6.00	6.00	43	256				0
		point108	108	6.00	6.00	6.00	34	202				0
		point107	107	6.00	6.00	6.00	89	533				0
Sound Barrier 1	W	point170	170	6.00	6.00	6.00	16	95				0
		point169	169	6.00	6.00	6.00	56	333				0
		point168	168	6.00	6.00	6.00	50	300				0
		point167	167	6.00	6.00	6.00	22	134				0
Sound Barrier 2	W	point183	183	6.00	6.00	6.00	26	158				0
		point182	182	6.00	6.00	6.00	37	224				0
		point181	181	6.00	6.00	6.00	86	517				0
		point180	180	6.00	6.00	6.00	88	530				0
		point179	179	6.00	6.00	6.00	55	332				0
		point178	178	6.00	6.00	6.00	40	239				0
		point177	177	6.00	6.00	6.00	44	76				0
Sound Barrier 3	W	point238	238	6.00	6.00	6.00	37	224				0
		point237	237	6.00	6.00	6.00	16	98				0
		point236	236	6.00	6.00	6.00	10	63				0
		point235	235	6.00	6.00	6.00	58	348				0
		point234	234	6.00	6.00	6.00	71	426				0
		point233	233	6.00	6.00	6.00	72	431				0
		point232	232	6.00	6.00	6.00	70	419				0
		point231	231	6.00	6.00	6.00	67	403				0
		point230	230	6.00	6.00	6.00	73	439				0
		point229	229	6.00	6.00	6.00	106	638				0

		point228	228	6.00	6.00	6.00	20	119				0
		point227	227	6.00	6.00	6.00	101	608				0
		point226	226	6.00	6.00	6.00	18	109				0
		point225	225	6.00	6.00	6.00	23	135				0
		point224	224	6.00	6.00	6.00	63	379				0
		point223	223	6.00	6.00	6.00	61	365				0
		point222	222	6.00	6.00	6.00	68	405				0
		point221	221	6.00	6.00	6.00	61	367				0
		point220	220	6.00	6.00	6.00	66	393				0
		point219	219	6.00	6.00	6.00	80	481				0
		point218	218	6.00	6.00	6.00	147	883				0
		point217	217	6.00	6.00	6.00	131	789				0
		point216	216	6.00	6.00	6.00	104	625				0
		point240	240	6.00	6.00	6.00	29	173				0
		point239	239	6.00	6.00	6.00	29	175				0
		point242	242	6.00	6.00	6.00	99	593				0
		point241	241	6.00	6.00	6.00	65	390				0
Property Wall	W	point245	245	6.00	6.00	6.00	61	367				0
		point244	244	6.00	6.00	6.00	62	372				0

LSA Associates, Inc.								#######				
Jason Lui								TNM 2.5				
								Calculated with TNM 2.5				
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:			Foothill Parkway Westerly Extension									
RUN:			Future Build Barrier									
BARRIER DESIGN:			SB No. 3 - 14 feet						Average pavement type shall be used unless			
									a State highway agency substantiates the use			
ATMOSPHERICS:			68 deg F, 50% RH						of a different type with approval of FHWA.			
Receiver												
Name	No.	Calibration	#DUs	Existing	No Barrier					With Barrier		
				LAeq1h	LAeq1h		Increase over existin		Type	Calculated	Noise Reduction	
					Calculated	Crit'n	Calculated	Crit'n	Impact	LAeq1h	Calculated	Goal
								Sub'l Inc				
				dBA	dBA	dBA	dB	dB		dBA	dB	dB
R-135	135	-2.9	1	0	63.2	66	63.2	12	----	54.9	8.3	5
R-136	136	-2.9	1	0	62.5	66	62.5	12	----	55.7	6.8	5
R-137	137	-2.9	1	0	61.6	66	61.6	12	----	54.2	7.4	5
R-138	138	-2.9	1	0	66	66	66	12	----	55.2	10.8	5
R-139	139	-2.9	1	0	64.7	66	64.7	12	----	57.5	7.2	5
R-140	140	-2.9	1	0	58.3	66	58.3	12	----	53.9	4.4	5
R-141	141	-2.9	1	0	58.3	66	58.3	12	----	52.9	5.4	5
R-142	142	-2.9	1	0	63.5	66	63.5	12	----	56.4	7.1	5
R-143	143	-2.9	1	0	60.7	66	60.7	12	----	55	5.7	5
R-144	144	-2.9	1	0	60.5	66	60.5	12	----	55.3	5.2	5
R-145	145	-2.9	1	0	64.8	66	64.8	12	----	57.3	7.5	5
R-146	146	-2.9	1	0	63.8	66	63.8	12	----	57.2	6.6	5
R-147	147	-2.9	1	0	64.1	66	64.1	12	----	57.9	6.2	5
R-148	148	-2.9	1	0	61.7	66	61.7	12	----	55.1	6.6	5
Dwelling Units			# DUs	Noise Reduction								
				Min	Avg	Max						
				dB	dB	dB						
All Selected			14	-0.1	0.9	3.2						
All Impacted			1	0	0	0						
All that meet NR Goal			0	0	0	0						