

APPENDIX F Noise Data

Duarte Station Specific Plan

Duarte, CA

Appendix: Ambient Noise Monitoring Data

Prepared by MIG, May 2019

Table: Summary of Site ST-1 Noise Monitoring Data

Site ST-1 (Sou	thwest corner (of Glenford Av	enue and	Business (Center Driv	<u>e)</u>					
Date	Time Start	Duration	Leq	Lmin	Lmax	L(01)	L(05)	L(10)	L(25)	L(50)	L(75)
5/8/2019	11:45 AM	15 mins	59.1	55.1	67.7	64.6	61.2	60.4	59.6	58.7	57.6
5/8/2019	12:00 PM	15 mins	59.9	57.6	64.8	62.9	61.3	60.8	60.3	59.8	59.3
		Average:	59.5	55.1	67.7	63.8	61.3	60.6	60.0	59.3	58.5

Table: Summary of Site ST-2 Noise Monitoring Data

S	ite ST-2 (East	tern end of 3 R	anch Road; ad	djacent to	project site	<u>e)</u>						
	Date	Time Start	Duration	Leq	Lmin	Lmax	L(01)	L(05)	L(10)	L(25)	L(50)	L(75)
	5/8/2019	12:30 PM	15 mins	54.0	49.5	65.6	62.8	57.5	54.7	53.5	52.6	51.9
	5/8/2019	12:45 PM	15 mins	54.4	50.6	64.7	62.5	57.2	55.6	54.5	53.4	52.3
			Average:	54.2	49.5	65.6	62.7	57.4	55.2	54.0	53.0	52.1

Table: Summary of Site ST-3 Noise Monitoring Data

Site ST-3 (Wes	tern side of Hi	ghland Avenu	e, approx	imately 50 f	eet from M	etro crossii	ng guards)				
Date	Time Start	Duration	Leq	Lmin	Lmax	L(01)	L(05)	L(10)	L(25)	L(50)	L(75)
5/8/2019	1:15 PM	15 mins	66.4	52.8	79.9	75.9	71.8	69.5	67.1	63.3	57.8
5/8/2019	2:00 PM	15 mins	67.6	52.1	82.2	77.5	73.1	70.8	68.8	63.0	58.2
		Average:	67.0	52.1	82.2	76.8	72.5	70.2	68.0	63.2	58.0

Table: Summary of Site ST-4 Noise Monitoring Data

Site ST-4 (Sou	thwest cordne	r of Highland A	Avenue ar	nd Business	Center Dr	ive)					
Date	Time Start	Duration	Leq	Lmin	Lmax	L(01)	L(05)	L(10)	L(25)	L(50)	L(75)
5/8/2019	2:30 PM	15 mins	66.1	59.4	81.0	74.6	70.5	67.7	65.6	64.1	62.8
5/8/2019	2:45 PM	15 mins	66.0	61.1	79.2	70.3	68.2	67.5	66.3	65.3	64.4
5/8/2019	3:00 PM	15 mins	64.6	58.2	76.3	70.4	68.0	66.9	65.5	63.8	62.1
		Average:	65.6	58.2	81.0	72.3	69.1	67.4	65.8	64.4	63.2

Duarte Station Specific Plan Duarte, CA

Appendix: Ambient Noise Monitoring Data

Prepared by MIG, May 2019

Table: Summary of Site LT1 Noise Monitoring Data

Site LT1												
<u>Date</u>	<u>Time</u>	<u>Duration</u>	Leq	CNEL	<u>Lmin</u>	<u>Lmax</u>	<u>L(1)</u>	<u>L(5)</u>	<u>L(10)</u>	L(25)	L(50)	<u>L(75)</u>
5/8/2019	7:00 AM	1-hour	70.6	70.6	63.4	82.9	74.2	72.6	72.1	71.2	70.3	69.4
5/8/2019	8:00 AM	1-hour	70.4	70.4	64.4	82.0	74.3	72.4	71.8	71.0	70.1	69.2
5/8/2019	9:00 AM	1-hour	70.3	70.3	64.2	82.6	74.2	72.4	71.8	70.9	69.9	69.0
5/8/2019	10:00 AM	1-hour	70.4	70.4	63.8	80.1	74.3	72.6	72.0	71.0	70.0	69.1
5/8/2019	11:00 AM	1-hour	70.5	70.5	65.9	83.5	74.4	72.7	72.0	71.1	70.2	69.3
5/8/2019	12:00 PM	1-hour	70.5	70.5	65.1	81.4	74.3	72.7	72.1	71.1	70.1	69.2
5/8/2019	1:00 PM	1-hour	69.7	69.7	62.2	77.0	73.4	72.0	71.4	70.5	69.3	68.2
5/8/2019	2:00 PM	1-hour	68.5	68.5	62.4	81.0	72.8	70.9	70.2	69.2	68.0	66.9
5/8/2019	3:00 PM	1-hour	66.4	66.4	60.7	78.5	72.7	69.6	68.4	66.8	65.6	64.5
5/7/2019	4:00 PM	1-hour	67.2	67.2	59.8	85.0	74.5	70.0	69.0	67.7	66.2	64.5
5/7/2019	5:00 PM	1-hour	67.1	67.1	61.9	88.2	72.9	68.9	68.1	67.1	66.2	65.5
5/7/2019	6:00 PM	1-hour	68.3	68.3	62.1	78.5	72.1	70.5	69.9	68.9	67.9	66.9
5/7/2019	7:00 PM	1-hour	69.5	74.5	65.5	79.5	73.1	71.6	71.0	70.1	69.2	68.4
5/7/2019	8:00 PM	1-hour	69.0	74.0	63.0	82.5	73.2	71.3	70.7	69.7	68.6	67.6
5/7/2019	9:00 PM	1-hour	68.5	73.5	61.2	81.0	72.8	71.2	70.4	69.2	68.1	67.0
5/7/2019	10:00 PM	1-hour	67.8	77.8	57.7	78.7	72.1	70.6	69.9	68.7	67.3	65.9
5/7/2019	11:00 PM	1-hour	66.5	76.5	55.6	75.4	72.1	70.0	69.0	67.5	65.7	64.0
5/8/2019	12:00 AM	1-hour	65.4	75.4	54.4	75.1	71.2	69.3	68.3	66.5	64.3	62.2
5/8/2019	1:00 AM	1-hour	64.2	74.2	50.6	72.6	70.7	68.8	67.7	65.4	62.5	60.2
5/8/2019	2:00 AM	1-hour	64.0	74.0	53.0	74.9	70.6	68.6	67.4	65.1	62.4	59.9
5/8/2019	3:00 AM	1-hour	65.8	75.8	49.4	76.3	71.8	69.8	68.8	66.9	64.6	62.5
5/8/2019	4:00 AM	1-hour	68.0	78.0	59.3	78.5	72.8	71.1	70.3	68.8	67.4	66.1
5/8/2019	5:00 AM	1-hour	69.8	79.8	63.5	81.5	73.8	72.3	71.6	70.6	69.4	68.2
5/8/2019	6:00 AM	1-hour	71.0	81.0	65.3	84.0	74.7	73.4	72.8	71.8	70.7	69.4
	Daytime (7 A	M to 10 PM)	69.3		59.8	88.2	73.6	71.6	70.9	69.9	68.9	67.9
	Nightime (10 I	PM to 7 AM)	67.6		49.4	84.0	72.4	70.7	69.9	68.5	66.9	65.4
	24	-hour CNEL		74.6	49.4	88.2	73.2	71.3	70.6	69.4	68.3	67.2

Duarte Station Specific Plan Duarte, CA Appendix: Summary of Modeled Traffic Noise Levels Prepared by MIG, July 2019

			E	kisting 20	19	Existing 2019 Plus Project		N	let Chang	je	F	uture 202	25	Future 2	2025 Plus	Project	N	let Chang	je	
ID	Road	Segment	ADT	CNEL (50 Ft)	CNEL (100 Ft)	ADT	CNEL (50 Ft)	CNEL (100 Ft)	ADT	CNEL (50 Ft)	CNEL (100 Ft)	ADT	CNEL (50 Ft)	CNEL (100 Ft)	ADT	CNEL (50 Ft)	CNEL (100 Ft)	ADT	CNEL (50 Ft)	CNEL (100 Ft)
1A	Buena Vista St	Huntington Dr to Central Ave	13,800	69.4	66.4	13,800	69.4	66.4	0	0.0	0.0	16,110	70.3	67.3	16,110	70.3	67.3	0	0.0	0.0
1B	Buena Vista St	Central Ave to I-210 WB	15,410	68	63.4	15,660	68	63.5	250	0.0	0.1	17,710	68.8	64.2	17,960	68.8	64.3	250	0.0	0.1
1C	Buena Vista St	I-210 WB to I-210 EB	14,260	68.7	64.9	14,370	68.8	64.9	110	0.1	0.0	17,270	69.7	65.9	17,380	69.8	65.9	110	0.1	
1D	Buena Vista St	I-210 EB to Three Ranch Rd	12,270	68.7	65.4	13,050	68.9	65.7	780	0.2	0.3	15,850	70	66.7	16,630	70.2	66.9	780	0.2	0.2
1E	Buena Vista St	Three Ranch Rd to Duarte Rd	12,390	68.1	64.4	13,400	68.5	64.7	1,010	0.4	0.3	15,980	69.4	65.6	16,990	69.7	65.9	1,010	0.3	
2A	Central Ave	East of Mountain Ave	13,880	69.3	66.2	13,880	69.3	66.2	0	0.0	0.0	14,870	69.8	66.7	14,870	69.8	66.7	0	0.0	0.0
2B		West of Buena Vista St	5,320	65.3	62.3	5,320	65.3	62.3	0	0.0	0.0	5,490	65.6	62.6	5,490	65.6	62.6	0	0.0	0.0
2C	Central Ave	Buena Vista St to I-210 WB	11,350	68	64.4	11,600	68.1	64.5	250	0.1	0.1	12,370	68.5	64.9	12,730	68.6	65	360	0.1	0.1
2D	Central Ave	I-210 WB to Duncannon Ave	11,480	65.3	62.3	12,060	65.5	62.5	580	0.2	0.2	12,010	65.6	62.6	12,590	65.8	62.8	580	0.2	0.2
2E	Central Ave	Duncannon Ave to Highland Ave	8,330	67.3	64.3	8,850	67.6	64.6	520	0.3	0.3	8,620	67.6	64.7	9,140	67.9	64.9	520	0.3	0.2
3A	Duarte Rd	Mountain Ave to Buena Vista St	11,570	70.3	67.4	12,110	70.5	67.6	540	0.2	0.2	13,020	71	68.1	13,560	71.2	68.3	540	0.2	0.2
3B	Duarte Rd	Buena Vista St to Cinco Robles Dr	13,080	70.6	67.3	14,830	71.1	67.8	1,750	0.5	0.5	16,290	71.7	68.5	18,040	72.1	68.9	1,750	0.4	0.4
3C	Duarte Rd	Cinco Robles Dr to Village Rd	12,240	69.9	66.3	13,980	70.5	66.8	1,740	0.6	0.5	15,410	71.1	67.5	17,150	71.5	67.9	1,740	0.4	
3D	Duarte Rd	Village Rd to Highland Ave	10,350	69.8	66.9	12,140	70.5	67.6	1,790	0.7	0.7	11,540	70.5	67.6	11,370	70.4	67.5	-170	-0.1	-0.1
4	Duncannon Ave	Central Ave to Evergreen St	1,940	56.9	53.2	2,080	57.2	53.5	140	0.3	0.3	2,000	57.1	53.5	2,140	57.4	53.8	140	0.3	
5A	Evergreen St	East of Mountain Ave	17,350	70.5	67.5	17,530	70.5	67.6	180	0.0	0.1	19,140	71.1	68.1	19,320	71.1	68.2	180	0.0	0.1
5B	Evergreen St	West of Buena Vista St	6,940	66.4	63.3	7,060	66.4	63.4	120	0.0	0.1	8,480	67.4	64.3	8,600	67.5	64.4	120	0.1	
5C	Evergreen St	Duncannon Ave to Highland Ave	1,420	58	55	1,640	58.6	55.7	220	0.6	0.7	1,470	58.3	55.4	1,690	58.9	56	220	0.6	0.6
6A	Highland Ave	Huntington Dr to Central Ave	10,850	65.1	62.1	13,000	65.9	62.9	2,150	0.8	0.8	11,700	65.6	62.6	13,850	66.3	63.4	2,150	0.7	0.8
6B	Highland Ave	Central Ave to Evergreen St	13,590	68.7	65.1	16,300	69.5	65.9	2,710	8.0	8.0	14,610	69.2	65.6	17,320	69.9	66.3	2,710	0.7	0.7
6C	Highland Ave	Evergreen St to Business Center Dr	12,240	68.1	64.3	14,910	68.9	65.1	2,670	0.8	0.8	13,200	68.6	64.8	15,870	69.4	65.6	2,670	0.8	
	3	Business Center Dr to Duarte Rd	11,660	68.5	65.3	13,760	69.2	66	2,100	0.7	0.7	12,610	69	65.8	14,710	69.7	66.5	2,100	0.7	0.7
7A	Huntingon Dr	Buena Vista St to Highland Ave	22,310	73.2	70.3	22,610	73.2	70.3	300	0.0	0.0	24,940	73.9	71	25,240	73.9	71	300	0.0	
7B	Huntingon Dr	Highland Ave to Mt Olive Dr	25,040	73.7	70.8	26,700	74	71.1	1,660	0.3	0.3	28,660	74.5	71.6	30,320	74.7	71.8	1,660	0.2	0.2
8A	Mountain Ave	Central Ave to Evergreen St	18,140	69.7	65.9	18,390	69.8	65.9	250	0.1	0.0	20,890	70.5	66.7	21,140	70.6	66.7	250	0.1	
8B	Mountain Ave	Evergreen St to Duarte Rd	14,010	69.4	66.3	14,260	69.5	66.4	250	0.1	0.1	14,680	69.8	66.7	14,930	69.9	66.8	250	0.1	0.1
9A	I210 w/out barrier	Adjacent to Evergreen St	263,757	71.1	74.2	263,805	71.1	74.2	48	0.0	0.0	279,984	71.6	74.7	280,032	71.6	74.7	48	0.0	0.0
9B	I210 w/barrier	Adjacent to Evergreen St	263,757	66.5	64.3	263,805	66.5	64.3	48	0.0	0.0	279,984	67.3	65.1	280,032	67.3	65.1	48	0.0	0.0

Duarte Station Specific Plan Duarte, CA
Appendix: Existing 2019 Traffic Noise Contour Distances
Prepared by MIG, July 2019

ID	Road	Road Segment	CNEL 100 Feet	Distance	e in Feet to	Contour
	Rodd	Road Sogmon	from Road Center	60 CNEL	65 CNEL	70 CNEL
1A	Buena Vista St	Huntington Dr to Central Ave	66.4	437	138	44
1B	Buena Vista St	Central Ave to I-210 WB	63.4	219	69	22
1C	Buena Vista St	I-210 WB to I-210 EB	64.9	309	98	31
1D	Buena Vista St	I-210 EB to Three Ranch Rd	65.4	347	110	35
1E	Buena Vista St	Three Ranch Rd to Duarte Rd	64.4	275	87	28
2A	Central Ave	East of Mountain Ave	66.2	417	132	42
2B	Central Ave	West of Buena Vista St	62.3	170	54	17
2C	Central Ave	Buena Vista St to I-210 WB	64.4	275	87	28
2D	Central Ave	I-210 WB to Duncannon Ave	62.3	170	54	17
2E	Central Ave	Duncannon Ave to Highland Ave	64.3	269	85	27
3A	Duarte Rd	Mountain Ave to Buena Vista St	67.4	550	174	55
3B	Duarte Rd	Buena Vista St to Cinco Robles Dr	67.3	537	170	54
3C	Duarte Rd	Cinco Robles Dr to Village Rd	66.3	427	135	43
3D	Duarte Rd	Village Rd to Higland Ave	66.9	490	155	49
4	Duncannon Ave	Central Ave to Evergreen St	53.2	21	7	2
5A	Evergreen St	East of Mountain Ave	67.5	562	178	56
5B	Evergreen St	West of Buena Vista St	63.3	214	68	21
5C	Evergreen St	Duncannon Ave to Highland Ave	55	32	10	3
6A	Highland Ave	Huntington Dr to Central Ave	62.1	162	51	16
6B	Highland Ave	Central Ave to Evergreen St	65.1	324	102	32
6C	Highland Ave	Evergreen St to Business Center Dr	64.3	269	85	27
6D	Highland Ave	Business Center Dr to Duarte Rd	65.3	339	107	34
7A	Huntingon Dr	Buena Vista St to Highland Ave	70.3	1,072	339	107
7B	Huntingon Dr	Highland Ave to Mt Olive Dr	70.8	1,202	380	120
8A	Mountain Ave	Central Ave to Evergreen St	65.9	389	123	39
8B	Mountain Ave	Evergreen St to Duarte Rd	66.3	427	135	43
9A	I210 w/out barrier	Adjacent to Evergreen St	74.2	10,258	3,244	1,026
9B	I210 w/barrier	Adjacent to Evergreen St	64.3	1,050	332	105

Duarte Station Specific Plan Duarte, CA Appendix: Existing 2019 Plus Project Traffic Noise Contour Distances Prepared by MIG, July 2019

			CNEL 100 Feet	Distance	in Feet to	Contour
ID	Road	Road Segment	from Road Center	60 CNEL	65 CNEL	70 CNEL
1A	Buena Vista St	Huntington Dr to Central Ave	66.4	437	138	44
1B	Buena Vista St	Central Ave to I-210 WB	63.5	224	71	22
1C	Buena Vista St	I-210 WB to I-210 EB	64.9	309	98	31
1D	Buena Vista St	I-210 EB to Three Ranch Rd	65.7	372	117	37
1E	Buena Vista St	Three Ranch Rd to Duarte Rd	64.7	295	93	30
2A	Central Ave	East of Mountain Ave	66.2	417	132	42
2B	Central Ave	West of Buena Vista St	62.3	170	54	17
2C	Central Ave	Buena Vista St to I-210 WB	64.5	282	89	28
2D	Central Ave	I-210 WB to Duncannon Ave	62.5	178	56	18
2E	Central Ave	Duncannon Ave to Highland Ave	64.6	288	91	29
3A	Duarte Rd	Mountain Ave to Buena Vista St	67.6	575	182	58
3B	Duarte Rd	Buena Vista St to Cinco Robles Dr	67.8	603	191	60
3C	Duarte Rd	Cinco Robles Dr to Village Rd	66.8	479	151	48
3D	Duarte Rd	Village Rd to Higland Ave	67.6	575	182	58
4	Duncannon Ave	Central Ave to Evergreen St	53.5	22	7	2
5A	Evergreen St	East of Mountain Ave	67.6	575	182	58
5B	Evergreen St	West of Buena Vista St	63.4	219	69	22
5C	Evergreen St	Duncannon Ave to Highland Ave	55.7	37	12	4
6A	Highland Ave	Huntington Dr to Central Ave	62.9	195	62	19
	Highland Ave	Central Ave to Evergreen St	65.9	389	123	39
6C	Highland Ave	Evergreen St to Business Center Dr	65.1	324	102	32
6D	Highland Ave	Business Center Dr to Duarte Rd	66	398	126	40
	Huntingon Dr	Buena Vista St to Highland Ave	70.3	1,072	339	107
7B	Huntingon Dr	Highland Ave to Mt Olive Dr	71.1	1,288	407	129
8A	Mountain Ave	Central Ave to Evergreen St	65.9	389	123	39
8B	Mountain Ave	Evergreen St to Duarte Rd	66.4	437	138	44
9A	1210 w/out barrier	Adjacent to Evergreen St	74.2	10,258	3,244	1,026
9B	I210 w/barrier	Adjacent to Evergreen St	64.3	1,050	332	105

Duarte Station Specific Plan Duarte, CA Appendix: Future 2025 Traffic Noise Contour Distances Prepared by MIG, July 2019

			CNEL 100 Feet	Distance	in Feet to	Contour
ID	Road	Road Segment	from Road Center	60 CNEL	65 CNEL	70 CNEL
1A	Buena Vista St	Huntington Dr to Central Ave	67.3	537	170	54
	Buena Vista St	Central Ave to I-210 WB	64.2	263	83	26
1C	Buena Vista St	I-210 WB to I-210 EB	65.9	389	123	39
1D	Buena Vista St	I-210 EB to Three Ranch Rd	66.7	468	148	47
1E	Buena Vista St	Three Ranch Rd to Duarte Rd	65.6	363	115	36
2A	Central Ave	East of Mountain Ave	66.7	468	148	47
2B	Central Ave	West of Buena Vista St	62.6	182	58	18
2C	Central Ave	Buena Vista St to I-210 WB	64.9	309	98	31
2D	Central Ave	I-210 WB to Duncannon Ave	62.6	182	58	18
2E	Central Ave	Duncannon Ave to Highland Ave	64.7	295	93	30
3A	Duarte Rd	Mountain Ave to Buena Vista St	68.1	646	204	65
3B	Duarte Rd	Buena Vista St to Cinco Robles Dr	68.5	708	224	71
3C	Duarte Rd	Cinco Robles Dr to Village Rd	67.5	562	178	56
3D	Duarte Rd	Village Rd to Higland Ave	67.6	575	182	58
4	Duncannon Ave	Central Ave to Evergreen St	53.5	22	7	2
5A	Evergreen St	East of Mountain Ave	68.1	646	204	65
	Evergreen St	West of Buena Vista St	64.3	269	85	27
5C	Evergreen St	Duncannon Ave to Highland Ave	55.4	35	11	3
6A	Highland Ave	Huntington Dr to Central Ave	62.6	182	58	18
6B	Highland Ave	Central Ave to Evergreen St	65.6	363	115	36
6C	Highland Ave	Evergreen St to Business Center Dr	64.8	302	95	30
6D	Highland Ave	Business Center Dr to Duarte Rd	65.8	380	120	38
7A	Huntingon Dr	Buena Vista St to Highland Ave	71	1,259	398	126
7B	Huntingon Dr	Highland Ave to Mt Olive Dr	71.6	1,445	457	145
8A	Mountain Ave	Central Ave to Evergreen St	66.7	468	148	47
8B	Mountain Ave	Evergreen St to Duarte Rd	66.7	468	148	47
9A	I210 w/out barrier	Adjacent to Evergreen St	74.7	11,510	3,640	1,151
9B	I210 w/barrier	Adjacent to Evergreen St	65.1	1,262	399	126

Duarte Station Specific Plan Duarte, CA Appendix: Future 2025 Plus Project Traffic Noise Contour Distances Prepared by MIG, July 2019

			2019 CNEL 100	Distance	in Feet to	Contour
ID	Road	Road Segment	Feet from Road	60 CNEL	65 CNEL	70 CNEL
			Center			
	Buena Vista St	Huntington Dr to Central Ave	67.3	537	170	54
	Buena Vista St	Central Ave to I-210 WB	64.3	269	85	27
	Buena Vista St	I-210 WB to I-210 EB	65.9	389	123	39
1D	Buena Vista St	I-210 EB to Three Ranch Rd	66.9	490	155	49
1E	Buena Vista St	Three Ranch Rd to Duarte Rd	65.9	389	123	39
2A	Central Ave	East of Mountain Ave	66.7	468	148	47
2B	Central Ave	West of Buena Vista St	62.6	182	58	18
2C	Central Ave	Buena Vista St to I-210 WB	65	316	100	32
2D	Central Ave	I-210 WB to Duncannon Ave	62.8	191	60	19
2E	Central Ave	Duncannon Ave to Highland Ave	64.9	309	98	31
3A	Duarte Rd	Mountain Ave to Buena Vista St	68.3	676	214	68
3B	Duarte Rd	Buena Vista St to Cinco Robles Dr	68.9	776	245	78
3C	Duarte Rd	Cinco Robles Dr to Village Rd	67.9	617	195	62
3D	Duarte Rd	Village Rd to Higland Ave	67.5	562	178	56
4	Duncannon Ave	Central Ave to Evergreen St	53.8	24	8	2
5A	Evergreen St	East of Mountain Ave	68.2	661	209	66
	Evergreen St	West of Buena Vista St	64.4	275	87	28
5C	Evergreen St	Duncannon Ave to Highland Ave	56	40	13	4
6A	Highland Ave	Huntington Dr to Central Ave	63.4	219	69	22
	Highland Ave	Central Ave to Evergreen St	66.3	427	135	43
6C	Highland Ave	Evergreen St to Business Center Dr	65.6	363	115	36
6D	Highland Ave	Business Center Dr to Duarte Rd	66.5	447	141	45
7A	Huntingon Dr	Buena Vista St to Highland Ave	71	1,259	398	126
7B	Huntingon Dr	Highland Ave to Mt Olive Dr	71.8	1,514	479	151
8A	Mountain Ave	Central Ave to Evergreen St	66.7	468	148	47
8B	Mountain Ave	Evergreen St to Duarte Rd	66.8	479	151	48
9A	1210 w/out barrier	Adjacent to Evergreen St	74.7	11,510	3,640	1,151
9B	I210 w/barrier	Adjacent to Evergreen St	65.1	1,262	399	126

Duar	te Station Specific Plan								
Duar	te, CA								
Appe	endix: Existing 2019 Traff	fic Noise Model Inputs							
	ared by MIG, July 2019								
1100	area by ime; sary 2017								
ID	Road	Segment	Length (Miles)	Length (Feet)	Average Lanes	Average Width (Feet)	Vehicle Speed (MPH)	Peak Hour Volume	ADT
1A	Buena Vista St	Huntington Dr to Central Ave	0.24	1,250	4	50	35	1,380	13,800
1B	Buena Vista St	Central Ave to I-210 WB	0.03	150	4	50	35	1,541	15,410
1C	Buena Vista St	I-210 WB to I-210 EB	0.05	290	4	70	35	1,426	14,260
1D	Buena Vista St	I-210 EB to Three Ranch Rd	0.12	615	4	60	35	1,227	12,270
1E	Buena Vista St	Three Ranch Rd to Duarte Rd	0.06	300	4	60	35	1,239	12,390
2A	Central Ave	East of Mountain Ave	0.16	855	3	37	35	1,388	13,880
2B	Central Ave	West of Buena Vista St	0.27	1,400	2	37	35	532	5,320
2C	Central Ave	Buena Vista St to I-210 WB	0.07	365	4	60	35	1,135	11,350
2D	Central Ave	I-210 WB to Duncannon Ave	0.20	1,070	2	37	25	1,148	11,480
2E	Central Ave	Duncannon Ave to Highland Ave	0.35	1,850	2	37	35	833	8,330
3A	Duarte Rd	Mountain Ave to Buena Vista St	0.50	2,650	4	70	40	1,157	11,570
3B	Duarte Rd	Buena Vista St to Cinco Robles Dr	0.12	650	4	77	40	1,308	13,080
3C	Duarte Rd	Cinco Robles Dr to Village Rd	0.07	370	4	77	40	1,224	12,240
3D	Duarte Rd	Village Rd to Higland Ave	0.42	2,225	4	77	40	1,035	10,350
4	Duncannon Ave	Central Ave to Evergreen St	0.06	320	2	40	25	194	1,940
5A	Evergreen St	East of Mountain Ave	0.32	1,685	2	30	35	1,735	17,350
5B	Evergreen St	West of Buena Vista St	0.18	960	2	30	35	694	6,940
5C	Evergreen St	Duncannon Ave to Highland Ave	0.35	1,840	2	30	30	142	1,420
6A	Highland Ave	Huntington Dr to Central Ave	0.25	1,310	4	60	25	1,085	10,850
6B	Highland Ave	Central Ave to Evergreen St	0.07	355	4	60	35	1,359	13,590
6C	Highland Ave	Evergreen St to Business Center Dr	0.06	295	4	60	35	1,224	12,240
6D	Highland Ave	Business Center Dr to Duarte Rd	0.13	670	4	60	35	1,166	11,660
7A	Huntingon Dr	Buena Vista St to Highland Ave	0.63	3,310	4	80	40	2,231	22,310
7B	Huntingon Dr	Highland Ave to Mt Olive Dr	0.63	3,310	4	80	40	2,504	25,040
A8	Mountain Ave	Central Ave to Evergreen St	0.05	280	4	67	35	1,814	18,140
8B	Mountain Ave	Evergreen St to Duarte Rd	0.18	940	4	67	35	1,401	14,010
9A	I210 w/out barrier	Adjacent to Evergreen St	0.09	500	12	170	65		263,757
9B	I210 w/barrier	Adjacent to Evergreen St	0.09	500	12	170	65		263,757

Duarte Station Specific Plan

Duarte, CA

Appendix: Existing 2019 Plus Project Traffic Noise Model Inputs

Prepared by MIG, July 2019

ID	Road	Segment	Length (Miles)	Length (Feet)	Average Lanes	Average Width (Feet)	Vehicle Speed (MPH)	Peak Hour Volume	ADT
1A	Buena Vista St	Huntington Dr to Central Ave	0.24	1,250	4	50	35	1,380	13,800
1B	Buena Vista St	Central Ave to I-210 WB	0.03	150	4	50	35	1,566	15,660
1C	Buena Vista St	I-210 WB to I-210 EB	0.05	290	4	70	35	1,437	14,370
1D	Buena Vista St	I-210 EB to Three Ranch Rd	0.12	615	4	60	35	1,305	13,050
1E	Buena Vista St	Three Ranch Rd to Duarte Rd	0.06	300	4	60	35	1,340	13,400
2A	Central Ave	East of Mountain Ave	0.16	855	3	37	35	1,388	13,880
2B	Central Ave	West of Buena Vista St	0.27	1,400	2	37	35	532	5,320
2C	Central Ave	Buena Vista St to I-210 WB	0.07	365	4	60	35	1,160	11,600
2D	Central Ave	I-210 WB to Duncannon Ave	0.20	1,070	2	37	25	1,206	12,060
2E	Central Ave	Duncannon Ave to Highland Ave	0.35	1,850	2	37	35	885	8,850
3A	Duarte Rd	Mountain Ave to Buena Vista St	0.50	2,650	4	70	40	1,211	12,110
3B	Duarte Rd	Buena Vista St to Cinco Robles Dr	0.12	650	4	77	40	1,483	14,830
3C	Duarte Rd	Cinco Robles Dr to Village Rd	0.07	370	4	77	40	1,398	13,980
3D	Duarte Rd	Village Rd to Higland Ave	0.42	2,225	4	77	40	1,214	12,140
4	Duncannon Ave	Central Ave to Evergreen St	0.06	320	2	40	25	208	2,080
5A	Evergreen St	East of Mountain Ave	0.32	1,685	2	30	35	1,753	17,530
5B	Evergreen St	West of Buena Vista St	0.18	960	2	30	35	706	7,060
5C	Evergreen St	Duncannon Ave to Highland Ave	0.35	1,840	2	30	30	164	1,640
6A	Highland Ave	Huntington Dr to Central Ave	0.25	1,310	4	60	25	1,300	13,000
6B	Highland Ave	Central Ave to Evergreen St	0.07	355	4	60	35	1,630	16,300
6C	Highland Ave	Evergreen St to Business Center Dr	0.06	295	4	60	35	1,491	14,910
6D	Highland Ave	Business Center Dr to Duarte Rd	0.13	670	4	60	35	1,376	13,760
7A	Huntingon Dr	Buena Vista St to Highland Ave	0.63	3,310	4	80	40	2,261	22,610
7B	Huntingon Dr	Highland Ave to Mt Olive Dr	0.63	3,310	4	80	40	2,670	26,700
A8	Mountain Ave	Central Ave to Evergreen St	0.05	280	4	67	35	1,839	18,390
8B	Mountain Ave	Evergreen St to Duarte Rd	0.18	940	4	67	35	1,426	14,260
9A	I210 w/out barrier	Adjacent to Evergreen St	0.09	500	12	170	65		263,805
9B	I210 w/barrier	Adjacent to Evergreen St	0.09	500	12	170	65		263,805

Duar	te Station Specific Plan								
Duar	te, CA								
Appe	ndix: Future 2025 Traff	ic Noise Model Inputs							
Prep	ared by MIG, July 2019	·							
ID	Road	Segment	Length (Miles)	Length (Feet)	Average Lanes	Average Width (Feet)	Vehicle Speed (MPH)	Peak Hour Volume	ADT
1A	Buena Vista St	Huntington Dr to Central Ave	0.24	1,250	4	50	35	1,611	16,110
1B	Buena Vista St	Central Ave to I-210 WB	0.03	150	4	50	35	1,771	17,710
1C	Buena Vista St	I-210 WB to I-210 EB	0.05	290	4	70	35	1,727	17,270
1D	Buena Vista St	I-210 EB to Three Ranch Rd	0.12	615	4	60	35	1,585	15,850
1E	Buena Vista St	Three Ranch Rd to Duarte Rd	0.06	300	4	60	35	1,598	15,980
2A	Central Ave	East of Mountain Ave	0.16	855	3	37	35	1,487	14,870
2A	Central Ave	West of Buena Vista St	0.27	1,400	2	37	35	549	5,490
2A	Central Ave	Buena Vista St to I-210 WB	0.07	365	4	60	35	1,237	12,370
2A	Central Ave	I-210 WB to Duncannon Ave	0.20	1,070	2	37	25	1,201	12,010
2A	Central Ave	Duncannon Ave to Highland Ave	0.35	1,850	2	37	35	862	8,620
3A	Duarte Rd	Mountain Ave to Buena Vista St	0.50	2,650	4	70	40	1,302	13,020
3B	Duarte Rd	Buena Vista St to Cinco Robles Dr	0.12	650	4	77	40	1,629	16,290
3C	Duarte Rd	Cinco Robles Dr to Village Rd	0.07	370	4	77	40	1,541	15,410
3D	Duarte Rd	Village Rd to Higland Ave	0.42	2,225	4	77	40	1,154	11,540
4	Duncannon Ave	Central Ave to Evergreen St	0.06	320	2	40	25	200	2,000
5A	Evergreen St	East of Mountain Ave	0.32	1,685	2	30	35	1,914	19,140
5B	Evergreen St	West of Buena Vista St	0.18	960	2	30	35	848	8,480
5C	Evergreen St	Duncannon Ave to Highland Ave	0.35	1,840	2	30	30	147	1,470
6A	Highland Ave	Huntington Dr to Central Ave	0.25	1,310	4	60	25	1,170	11,700
6B	Highland Ave	Central Ave to Evergreen St	0.07	355	4	60	35	1,461	14,610
6C	Highland Ave	Evergreen St to Business Center Dr	0.06	295	4	60	35	1,320	13,200
6D	Highland Ave	Business Center Dr to Duarte Rd	0.13	670	4	60	35	1,261	12,610
7A	Huntingon Dr	Buena Vista St to Highland Ave	0.63	3,310	4	80	40	2,494	24,940
7B	Huntingon Dr	Highland Ave to Mt Olive Dr	0.63	3,310	4	80	40	2,866	28,660
8A	Mountain Ave	Central Ave to Evergreen St	0.05	280	4	67	35	2,089	20,890
8B	Mountain Ave	Evergreen St to Duarte Rd	0.18	940	4	67	35	1,468	14,680
9A	I210 w/out barrier	Adjacent to Evergreen St	0.09	500	12	170	65		279,984
9B	I210 w/barrier	Adjacent to Evergreen St	0.09	500	12	170	65		279,984

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Duarte Sta	tion Specific Plan								
Duarte, CA	1								
Appendix:	Future 2025 Plus Pr	roject Traffic Noise Model Inputs							
	by MIG, July 2019								
- I opai ou s	.,								
ID	Road	Segment	Length (Miles)	Length (Feet)	Average Lanes	Average Width (Feet)	Vehicle Speed (MPH)	Peak Hour Volume	ADT
1A Buen	a Vista St	Huntington Dr to Central Ave	0.24	1,250	4	50	35	1,611	16,110
1B Buen	a Vista St	Central Ave to I-210 WB	0.03	150	4	50	35	1,796	17,960
1C Buen	a Vista St	I-210 WB to I-210 EB	0.05	290	4	70	35	1,738	17,380
1D Buen	a Vista St	I-210 EB to Three Ranch Rd	0.12	615	4	60	35	1,663	16,630
1E Buen	a Vista St	Three Ranch Rd to Duarte Rd	0.06	300	4	60	35	1,699	16,990
2A Centr	ral Ave	East of Mountain Ave	0.16	855	3	37	35	1,487	14,870
2A Centr	ral Ave	West of Buena Vista St	0.27	1,400	2	37	35	549	5,490
2A Centr	ral Ave	Buena Vista St to I-210 WB	0.07	365	4	60	35	1,273	12,730
2A Centr	ral Ave	I-210 WB to Duncannon Ave	0.20	1,070	2	37	25	1,259	12,590
2A Centr	ral Ave	Duncannon Ave to Highland Ave	0.35	1,850	2	37	35	914	9,140
3A Duart	te Rd	Mountain Ave to Buena Vista St	0.50	2,650	4	70	40	1,356	13,560
3B Duart	te Rd	Buena Vista St to Cinco Robles Dr	0.12	650	4	77	40	1,804	18,040
3C Duart	te Rd	Cinco Robles Dr to Village Rd	0.07	370	4	77	40	1,715	17,150
3D Duart	te Rd	Village Rd to Higland Ave	0.42	2,225	4	77	40	1,137	11,370
4 Dunc	annon Ave	Central Ave to Evergreen St	0.06	320	2	40	25	214	2,140
5A Everg	green St	East of Mountain Ave	0.32	1,685	2	30	35	1,932	19,320
5B Everg	green St	West of Buena Vista St	0.18	960	2	30	35	860	8,600
5C Everg	green St	Duncannon Ave to Highland Ave	0.35	1,840	2	30	30	169	1,690
6A Highl	and Ave	Huntington Dr to Central Ave	0.25	1,310	4	60	25	1,385	13,850
6B Highl	and Ave	Central Ave to Evergreen St	0.07	355	4	60	35	1,732	17,320
6C Highl	and Ave	Evergreen St to Business Center Dr	0.06	295	4	60	35	1,587	15,870
6D Highl	and Ave	Business Center Dr to Duarte Rd	0.13	670	4	60	35	1,471	14,710
7A Hunti	ngon Dr	Buena Vista St to Highland Ave	0.63	3,310	4	80	40	2,524	25,240
	ngon Dr	Highland Ave to Mt Olive Dr	0.63	3,310	4	80	40	3,032	30,320
8A Mour	ntain Ave	Central Ave to Evergreen St	0.05	280	4	67	35	2,114	21,140
8B Mour	ntain Ave	Evergreen St to Duarte Rd	0.18	940	4	67	35	1,493	14,930
	w/out barrier	Adjacent to Evergreen St	0.09	500	12	170	65		280,032
9B I210	w/barrier	Adjacent to Evergreen St	0.09	500	12	170	65		280,032

Duarte Station Speci	fic Plan				
Duarte, CA					
Appendix: Traffic Noi	se Model Inputs - Vehic	le Fleet Mix			
Prepared by MIG, Ju	ly 2019				
	TNM2.	5/EMFAC2017 VEHICLI	E POPULATION INFO	RMATION	
TNM Vehicle Type	Vehicle Class	2019 Vehicle	2019 Vehicle	2040 Vehicle	2040 Vehicle
Tivivi veriicie Type	(EMFAC2007)	Population	Population %	Population	Population %
Auto	LDA	3,900,941	55.3%	4,219,323	53.9%
Auto	LDT1	415,551	5.9%	507,421	6.5%
Auto	LDT2	1,311,490	18.6%	1,487,969	19.0%
Auto	LHDT1	156,330	2.2%	182,875	2.3%
Auto	MDV	903,623	12.8%	993,583	12.7%
	Subtotal	6,687,936	95%	7,391,171	94%
Medium Truck	LHDT2	37,342	0.5%	49,841	0.6%
Medium Truck	MHDT	76,085	1.1%	85,372	1.1%
Medium Truck	OBUS	6,962	0.1%	7,310	0.1%
Medium Truck	SBUS	4,432	0.1%	5,238	0.1%
	Subtotal	124,821	2%	147,762	2%
Heavy Truck	HHDT	55,641	0.8%	63,142	0.8%
Heavy Truck	MH	23,808	0.3%	25,642	0.3%
Heavy Truck	UBUS	4,527	0.1%	4,694	0.1%
	Subtotal	83,977	1%	93,478	1%
Motorcycle	MC	155,071	2.2%	196,540	2.5%
	Subtotal	155,071	2%	196,540	3%
	TOTAL	7,051,805	100.0%	7,828,951	100.0%

EMFAC2017 (v1.0.2) Emissions Inventory

Region Type: Sub-Area Region: Los Angeles (SC) Calendar Year: 2019, 2040

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Yea Vehicle	· ·	Speed	Fuel	Population	VMT	Trips	ROG_RUNEX
Los Angeles	•	Aggregated	Aggregated	GAS	70.1376342	5745.854855	1403.31379	0.005925142
Los Angeles		Aggregated	Aggregated	DSL	53493.0027	6393903.432	526213.356	1.31439047
Los Angeles	•	Aggregated	Aggregated	NG	2078.28919	84546.45018	8105.32786	0.047743451
Los Angeles	•	Aggregated	Aggregated	GAS	3824691.22	151393815.7	18027338.3	3.30371076
Los Angeles	•	Aggregated	Aggregated	DSL	28023.0913	1131318.278	131436.74	0.038938628
Los Angeles		Aggregated	Aggregated	ELEC	48227.0538	1868211.138	242582.098	0
Los Angeles	(2019 LDT1	Aggregated	Aggregated	GAS	414008.59	15846032.62	1897905.49	0.953412554
Los Angeles	(2019 LDT1	Aggregated	Aggregated	DSL	347.149149	8765.049263	1239.75627	0.002229509
Los Angeles	(2019 LDT1	Aggregated	Aggregated	ELEC	1195.47979	40706.92535	5745.87881	0
Los Angeles	(2019 LDT2	Aggregated	Aggregated	GAS	1298970.48	50631402.19	6073756.95	1.785288502
Los Angeles	(2019 LDT2	Aggregated	Aggregated	DSL	6219.76006	284822.9329	30920.5394	0.008197359
Los Angeles	(2019 LDT2	Aggregated	Aggregated	ELEC	6300.02799	220572.3339	32115.473	0
Los Angeles	(2019 LHDT ²	1 Aggregated	Aggregated	GAS	106632.405	3979863.121	1588663.96	0.240929781
Los Angeles	(2019 LHDT ²	1 Aggregated	Aggregated	DSL	49697.5227	2199080.991	625132.316	0.201861102
Los Angeles	(2019 LHDT2	2 Aggregated	Aggregated	GAS	17307.9464	621230.0872	257862.612	0.027418838
Los Angeles	(2019 LHDT2	2 Aggregated	Aggregated	DSL	20034.4573	855069.0774	252008.27	0.076551244
Los Angeles	(2019 MCY	Aggregated	Aggregated	GAS	155070.671	1122451.783	310141.342	3.313097807
Los Angeles	(2019 MDV	Aggregated	Aggregated	GAS	888685.123	32077377.96	4105187.13	1.905451582
Los Angeles	(2019 MDV	Aggregated	Aggregated	DSL	13746.8578	582073.9425	68145.5104	0.012610483
Los Angeles	(2019 MDV	Aggregated	Aggregated	ELEC	1191.24119	41902.69663	6070.76713	0
Los Angeles		Aggregated	Aggregated	GAS	18867.4825	187915.2952	1887.50295	0.0216667
Los Angeles	(2019 MH	Aggregated	Aggregated	DSL	4940.88628	52784.32924	494.088628	0.004567854
Los Angeles		Aggregated	Aggregated	GAS	14359.3955	787937.6444	287302.784	0.103980369
Los Angeles	(2019 MHDT	Aggregated	Aggregated	DSL	61725.3937	3792666.462	603492.146	0.817405249
Los Angeles	(2019 OBUS	Aggregated	Aggregated	GAS	4019.29961	177590.6172	80418.1465	0.017061562
Los Angeles	(2019 OBUS	Aggregated	Aggregated	DSL	2942.85297	217614.5591	28954.2587	0.060640933
Los Angeles	•	Aggregated	Aggregated	GAS	1075.22141	45425.07347	4300.88563	0.003742835
Los Angeles	•	Aggregated	Aggregated	DSL	3356.4354	106571.1621	38732.7992	0.014957113
Los Angeles		Aggregated	Aggregated	GAS	448.160627	32414.88694	1792.64251	0.000716817
Los Angeles		Aggregated	Aggregated	DSL	14.1944	1580.590656	56.7776	5.2756E-06
Los Angeles		Aggregated	Aggregated	ELEC	12	1070.403311	48	0
Los Angeles		Aggregated	Aggregated	NG	4052.98369	429071.0422	16211.9348	0.15667791
- g	,	33 - 3-1	33 - 3	Total Veh				

EMFAC2017 (v1.0.2) Emission Rates

Region Type: Sub-Area Region: Los Angeles (SC) Calendar Year: 2025 Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, F

Region	Calendar Yea	Vehicle Cate	eg Model Year	Speed	Fuel	Population	VMT	Trips	ROG_RUNEX
Los Angeles (HHDT	Aggregated	Aggregated	GAS	51.5091585	6279.225697	1030.59524	0.401944648
Los Angeles (HHDT	Aggregated	Aggregated	DSL	59964.7024	7210429.303	603407.228	0.019982037
Los Angeles	•	HHDT	Aggregated	Aggregated	NG	3125.984	127327.5545	12191.3376	0.245521814
Los Angeles (•	LDA	Aggregated	Aggregated	GAS	4055770.86	148167344.8	19132327.9	0.00803703
Los Angeles (•	LDA	Aggregated	Aggregated	DSL	40165.3598	1525959.122	191058.951	0.015120393
Los Angeles	•	LDA	Aggregated	Aggregated	ELEC	123387.198	5311624.047	613370.089	0
Los Angeles (2025	LDT1	Aggregated	Aggregated	GAS	499962.223	17936852.83	2319231.34	0.022848818
Los Angeles (2025	LDT1	Aggregated	Aggregated	DSL	219.267743	5298.916191	778.971729	0.162506556
Los Angeles	2025	LDT1	Aggregated	Aggregated	ELEC	7239.82791	319787.924	36254.1632	0
Los Angeles (2025	LDT2	Aggregated	Aggregated	GAS	1449451.69	52839722.85	6815060.03	0.014730298
Los Angeles (2025	LDT2	Aggregated	Aggregated	DSL	11309.0175	447477.7824	55247.7284	0.022070476
Los Angeles (2025	LDT2	Aggregated	Aggregated	ELEC	27208.1308	833021.533	136529.907	0
Los Angeles (2025	LHDT1	Aggregated	Aggregated	GAS	105035.24	3739637.806	1564868.58	0.023903282
Los Angeles ((2025	LHDT1	Aggregated	Aggregated	DSL	77839.376	3150817.435	979121.428	0.056302394
Los Angeles	(2025	LHDT2	Aggregated	Aggregated	GAS	18214.5893	625282.3714	271370.241	0.016087333
Los Angeles	(2025	LHDT2	Aggregated	Aggregated	DSL	31626.3724	1228533.957	397819.979	0.056241147
Los Angeles ((2025	MCY	Aggregated	Aggregated	GAS	196539.68	1308120.512	393079.359	2.602921546
Los Angeles	(2025	MDV	Aggregated	Aggregated	GAS	951896.889	32309577.61	4428022.92	0.018646131
Los Angeles	(2025	MDV	Aggregated	Aggregated	DSL	24603.8523	911875.045	119860.46	0.013231753
Los Angeles	(2025	MDV	Aggregated	Aggregated	ELEC	17082.5656	536506.7156	86444.6953	0
Los Angeles	(2025	MH	Aggregated	Aggregated	GAS	18896.5864	192124.87	1890.4145	0.033486929
Los Angeles	(2025	MH	Aggregated	Aggregated	DSL	6745.29341	68685.08907	674.529341	0.06139979
Los Angeles	(2025	MHDT	Aggregated	Aggregated	GAS	14915.3847	806295.8787	298427.016	0.037660863
Los Angeles	(2025	MHDT	Aggregated	Aggregated	DSL	70456.8384	4438143.009	699620.083	0.007893373
Los Angeles	(2025	OBUS	Aggregated	Aggregated	GAS	3952.68764	153092.6769	79085.3743	0.045720503
Los Angeles	(2025	OBUS	Aggregated	Aggregated	DSL	3357.42421	252475.1261	32687.9111	0.011217779
Los Angeles	(2025	SBUS	Aggregated	Aggregated	GAS	1686.65716	65361.13425	6746.62866	0.041078372
Los Angeles	(2025	SBUS	Aggregated	Aggregated	DSL	3551.77173	112277.3688	40986.9533	0.098273861
Los Angeles	(2025	UBUS	Aggregated	Aggregated	GAS	469.119885	33573.25703	1876.47954	0.019643165
Los Angeles	(2025	UBUS	Aggregated	Aggregated	DSL	6.0834	752.2395132	24.3336	0.001160062
Los Angeles	(2025	UBUS	Aggregated	Aggregated	ELEC	12	1070.403311	48	0
Los Angeles	(2025	UBUS	Aggregated	Aggregated	NG	4206.88601	445327.3012	16827.544	0.090602523
					Total Veh.	7828951.07			

RESULTS: SOUND LEVELS			·	,			Duarte Sta	LION SP U	Juale		_		
MIG							15 July 20	110					
							_	713					
C. Dugan							TNM 2.5						
							Calculate	d with TNN	A 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		E19_01	A_BuenaV	ista: Hunting	to Central	1							
BARRIER DESIGN:		INPUT	HEIGHTS					Average	pavement typ	e shall be use	d unles	s	
										y substantiat			
ATMOSPHERICS:		68 deg	F, 50% RH	l						approval of F			
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrie	r			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	ction	-	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcu	lated
							Sub'l Inc					minus	j
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1	1	0.0	69.4	66	69.4	10	Snd Lvl	69.	4 0.0)	8	-8.
100 Feet from Centerline	2	2 1	0.0	66.4	66	66.4	10	Snd Lvl	66.	4 0.0)	8	-8
Dwelling Units		# DUs	Noise Re	duction									
			Min	Avg	Max								
			dB	dB	dB								

0.0

0.0

0.0

0.0

0.0

2 0

0.0

0.0

0.0

All Selected

All Impacted

RESULTS: SOUND LEVELS			+			·	Duarte Sta	tion SP Up	odate		-		
MIG							15 July 20)19					
C. Dugan							TNM 2.5						
							Calculate	d with TNN	/ 1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		E19_01	B_BuenaV	ista: Central	to 210WB								
BARRIER DESIGN:		INPUT	HEIGHTS					Average	pavement typ	e shall be use	ed unles	s	
								a State hi	ghway agend	y substantiat	es the u	se	
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	rent type with	approval of F	HWA.		
Receiver													-
Name	No.	#DUs	Existing	No Barrier					With Barrie	r			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	ction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcul	ated
							Sub'l Inc					minus	
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1	1	0.0	68.0	0	68.0) C	Snd Lvl	68.0	0.0	ס	0	0.0
100 Feet from Centerline	2	2 1	0.0	63.4	0	63.4	C	Snd Lvl	63.4	4 0.0)	0	0.0
Dwelling Units		# DUs	Noise Red	duction									
			Min	Avg	Max								
			dB	dB	dB								

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

2

2

All Selected

All Impacted

RESULTS: SOUND LEVELS						·	Duarte Sta	tion SP Up	odate		_		
NIO.							45 1 1 0						
MIG							15 July 20)19					
C. Dugan							TNM 2.5						
							Calculate	d with TNN	1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		E19_01	C_BuenaVi	ista: 210WB 1	o 210EB								
BARRIER DESIGN:		INPUT	HEIGHTS					Average	pavement typ	e shall be use	d unles	s	
								a State hi	ghway agend	y substantiat	es the u	se	
ATMOSPHERICS:		68 deg	F, 50% RH							approval of F			
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrier	7			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	ction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcu	ulated
							Sub'l Inc					minu	s
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1	1	0.0	68.7		68.7	, C	Snd Lvl	68.7	7 0.0)	0	0.
100 Feet from Centerline	2	2 1	0.0	64.9	C	64.9) (Snd Lvl	64.9	0.0)	0	0.
Dwelling Units		# DUs	Noise Red	duction									
			Min	Avg	Max								

dB

0.0

0.0

0.0

dB

0.0

0.0

0.0

0.0

0.0

0.0

dB

2

All Selected

All Impacted

Dwelling Units		# DUs	Noise Re	duction								
100 Feet from Centerline	2	! 1	0.0	65.	4 0	65.4	· C	Snd Lvl	65.4	0.0)	0.0
50 Feet from Centerline	1	1	0.0	68.	7 0	68.7	ď	Snd Lvl	68.7	0.0)	0.0
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
												Goal
							Sub'l Inc					minus
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	ction	
Name	No.	#DUs	Existing	No Barrier					With Barrier	-		
Receiver												
ATMOSPHERICS:		68 deg	F, 50% RI	1				of a differ	ent type with	approval of F	HWA.	
								a State hig	ghway agenc	y substantiat	es the us	9
BARRIER DESIGN:		INPUT	HEIGHTS					Average p	avement type	shall be use	d unless	
RUN:		E19_01	D_Buena\	/ista: 210EB	to 3Ranch							
PROJECT/CONTRACT:		Duarte	Station SF	Update								
RESULTS: SOUND LEVELS												
e. Bugun								d with TNM	1 2.5			
C. Dugan							TNM 2.5	, 13				
MIG							15 July 20	119				
RESULTS. SOUND LEVELS							Duarte Sta	ition SP Up	uate			
RESULTS: SOUND LEVELS							Duarte Sta	ition SP Up	date			

Max

0.0

0.0

0.0

dB

0.0

0.0

0.0

All Selected

All Impacted

All that meet NR Goal

Min

dB

2

2

Avg

dB

0.0

0.0

0.0

RESULTS: SOUND LEVELS							Duarte Sta	tion SP Up	date		1	
MIG							15 July 20	 19				
C. Dugan							TNM 2.5					
							Calculated	d with TNN	1 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		Duarte	Station SF	Update								
RUN:		E19_01	E_BuenaV	/ista: 3Ranch	to Duarte							
BARRIER DESIGN:		INPUT	HEIGHTS					Average p	avement type	shall be use	d unless	
								a State hi	ghway agenc	y substantiat	es the use	•
ATMOSPHERICS:		68 deg	F, 50% RH	1				of a differ	ent type with	approval of F	HWA.	
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	ction	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	68.	1 0	68.1	0	Snd Lvl	68.1	0.0		0.0
100 Feet from Centerline	2	1	0.0	64.	4 0	64.4	0	Snd Lvl	64.4	0.0)	0.0
Dwelling Units		# DUs	Noise Re	duction								

Max

0.0

0.0

0.0

dB

0.0

0.0

0.0

All Selected

All Impacted

All that meet NR Goal

Min

dB

2

2

Avg

dB

0.0

0.0

0.0

RESULTS: SOUND LEVELS							Duarte Sta	tion SP Up	odate	1		
MIG							15 July 20	 19				
C. Dugan							TNM 2.5					
							Calculated	d with TNN	1 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		Duarte	Station SP	Update								
RUN:		E19_02	A_Central:	E/O Mounta	in Ave							
BARRIER DESIGN:		INPUT	HEIGHTS					Average	pavement type	shall be use	d unless	\$
								a State hi	ghway agenc	y substantiate	s the us	se
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.	
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	69.	3 (69.3	0	Snd Lvl	69.3	0.0		0 0
100 Feet from Centerline	2	. 1	0.0	66.	2 (66.2	2 0	Snd Lvl	66.2	0.0		0 0
Dwelling Units		# DUs	Noise Red	duction								
			Min	Avg	Max							
			dB	dB	dB							
All Selected		2	0.0	0.0	0.0)						
All Impacted		2	0.0	0.	0.0)						
All that meet NR Goal		2	0.0	0.0	0.0	1						

			Min	Avg	Max							
Dwelling Units		# DUs	Noise Red	duction								
100 Feet from Centerline	2	1	0.0	62.3	3 (62.3	0	Snd Lvl	62.3	0.0	(0.
50 Feet from Centerline	1	1	0.0	65.3	3 (65.3	0	Snd Lvl	65.3	0.0		0.
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
												Goal
							Sub'l Inc					minus
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion	
Name	No.	#DUs	Existing	No Barrier					With Barrier			
Receiver												
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.	
								a State hig	ghway agency	y substantiate	s the use	
BARRIER DESIGN:			HEIGHTS					Average p	oavement type	shall be use	d unless	
RUN:		E19_02	B_Central:	W/O Buena\	/ista							
PROJECT/CONTRACT:		Duarte	Station SP	Update								
RESULTS: SOUND LEVELS												
o. Dugan							Calculated	l with TNM	1 2.5			
C. Dugan							TNM 2.5	13				
MIG							15 July 20	 10				

0.0

0.0

0.0

0.0

0.0

2 2 2

0.0

0.0

0.0

All Selected

All Impacted

All that meet NR Goal

			Min	Avg	Max							
Dwelling Units		# DUs	Noise Red	duction								
100 Feet from Centerline	2	1	0.0	64.4	4 (64.4	0	Snd Lvl	64.4	0.0	(0.
50 Feet from Centerline	1	1	0.0	68.0) (68.0	0	Snd Lvl	68.0	0.0		0.
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
												Goal
							Sub'l Inc					minus
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion	
Name	No.	#DUs	Existing	No Barrier					With Barrier		,	
Receiver												
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.	
									ghway agency			
BARRIER DESIGN:			HEIGHTS					Average p	oavement type	shall be use	d unless	
RUN:				BuenaVis to	210WB							
PROJECT/CONTRACT:		Duarte	Station SP	Update								
RESULTS: SOUND LEVELS												
C. Dugan							Calculated	l with TNM	12.5			
C. Dugan							TNM 2.5	13				
MIG							15 July 20	10				
RESULTS: SOUND LEVELS							Duarte Sta	•				

0.0

0.0

0.0

0.0

0.0

2 2 2

0.0

0.0

0.0

All Selected

All Impacted

All that meet NR Goal

RESULTS: SOUND LEVELS	· · · · · · · · · · · · · · · · · · ·			·			Duarte Sta	tion SP Up	odate				
MIG							15 July 20	019					
C. Dugan							TNM 2.5						
							Calculate	d with TNN	/ 1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		E19_02	D_Central:	210WB to Di	uncannon								
BARRIER DESIGN:		INPUT	HEIGHTS					Average	pavement typ	e shall be use	ed unless	•	
										y substantiat			
ATMOSPHERICS:		68 deg	F, 50% RH							approval of F			
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrie	r			
			Lden	Lden		Increase over	existing	Type	Calculated	Noise Reduc	ction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcula	ted
							Sub'l Inc					minus	
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1	1	0.0	65.3	3 (65.3	C	Snd Lvl	65.	3 0.0)	0	0.
100 Feet from Centerline	2	1	0.0	62.3	3 (62.3	C	Snd Lvl	62.	3 0.0)	0	0.
Dwelling Units		# DUs	Noise Re	duction									
			Min	Avg	Max								
			dB	dB	dB								

0.0

0.0

0.0

0.0

0.0

2 2 2

0.0

0.0

0.0

All Selected

All Impacted

All that meet NR Goal

RESULTS: SOUND LEVELS							Duarte Sta	tion SP Up	date			
MIG							15 July 20) 19				
C. Dugan							TNM 2.5					
							Calculated	d with TNM	2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		Duarte	Station SP	Update								
RUN:		E19_02	E_Central:	Duncannon	to Highlan	d						
BARRIER DESIGN:		INPUT	HEIGHTS					Average p	avement type	shall be use	d unless	
								a State hig	hway agency	y substantiate	s the use	
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.	
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	67.3	3 (67.3	0	Snd Lvl	67.3	0.0	(0
30 Feet Holli Celiteliile	,		0.0	0	- I	01.0	_	0	01.0	0.0		

DUs Noise Reduction Min

dB

2

2

Avg

dB

0.0

0.0

0.0

Max

0.0

0.0

0.0

dB

0.0

0.0

0.0

Dwelling Units

All Selected

All Impacted

All that meet NR Goal

			Min	Avg	Max								
Dwelling Units		# DUs	Noise Re	duction									
100 Feet from Centerline	2	2 1	0.0	6	7.4 (67.4	0	Snd Lvl	67.4	0.0		0	0.0
50 Feet from Centerline	1	1	0.0	70	0.3	70.3	0	Snd Lvl	70.3	0.0		0	0.0
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	-
												Goal	
							Sub'l Inc					minus	
				Calculated	d Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcula	ted
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion	\ <u></u>	
Name	No.	#DUs	Existing	No Barrie	•				With Barrier				
Receiver													
ATMOSPHERICS:		68 deg	F, 50% RF	l					ent type with				
									ghway agenc			•	
BARRIER DESIGN:			HEIGHTS	,		-		Average p	pavement type	shall be use	d unless		
RUN:				-	o Buena Vis	t							
PROJECT/CONTRACT:		Duarte	Station SP	Undate									
RESULTS: SOUND LEVELS							Jaiodiale						
C. Dugan							TNM 2.5 Calculated	l with TNM	125				
MIG							15 July 20	19					
RESULTS: SOUND LEVELS			-			_	Duarte Sta	ion SP Up	ate				

dB

0.0

0.0

0.0

dB

0.0

0.0

0.0

0.0

0.0

0.0

dB

2

2

All Selected

All Impacted

All that meet NR Goal

1410							45 1-1-00	40					
MIG							15 July 20	19					
C. Dugan							TNM 2.5						
							Calculated	with TNN	1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		E19_03	B_Duarte:	Buena Vis	ta to Cinco								
BARRIER DESIGN:		INPUT	HEIGHTS					Average p	pavement type	e shall be use	d unless		
								a State hi	ghway agenc	y substantiate	es the use	е	
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.		
Receiver													
Name	No.	#DUs	Existing	No Barrie	r				With Barrier				
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion		
				Calculate	d Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcula	ited
							Sub'l Inc					minus	
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1	1	0.0	7	0.6	70.6	0	Snd Lvl	70.6	0.0		0	0.0
100 Feet from Centerline	2	1	0.0	6	7.3	67.3	0	Snd Lvl	67.3	0.0		0	0.0
Dwelling Units		# DUs	Noise Re	duction									
			Min	Avg	Max								

All Selected

All Impacted

All that meet NR Goal

dB

2

dB

0.0

0.0

0.0

dB

0.0

0.0

0.0

0.0

0.0

0.0

Duarte Station SP Update

REGOLIO: GOGILD LEVELS							Duanto Oto		Judio		Ì		
MIG							15 July 20) 19					
C. Dugan							TNM 2.5						
							Calculate	d with TNN	1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		E19_03	C_Duarte:	Cinco Robles	s to Village	•							
BARRIER DESIGN:		INPUT	HEIGHTS					Average	pavement type	shall be use	d unles	s	
								a State hi	ghway agenc	y substantiate	s the u	se	
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.		
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrier	-			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcula	ted
							Sub'l Inc					minus	
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	,	1 1	0.0	69.9) (69.9	C	Snd Lvl	69.9	0.0		0	0.
100 Feet from Centerline	2	2 1	0.0	66.3	3 (66.3	C	Snd Lvl	66.3	0.0		0	0.0
Dwelling Units		# DUs	Noise Red	duction									
<u> </u>			Min	Avg	Max								
			dB	dB	dB								
All Selected		2	0.0	0.0	0.0)							
All Impacted		2	0.0	0.0									
All that meet NR Goal		2	0.0	0.0	0.0)							

2g c		503	Min	Avg	Max							
Dwelling Units			Noise Re			30.0		2	30.0	0.0		
100 Feet from Centerline	2	1	0.0			-			66.9			0 0
50 Feet from Centerline	1	1	0.0					Snd Lvl	69.8			0 0
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
							Cua i mo					Goal
				Jaioaiatou		Caloulatod	Sub'l Inc	puot		Jaiouiutou	Jour	minus
			_3011	Calculated	Crit'n	Calculated		Impact		1	Goal	Calculated
	110.		Lden	Lden		Increase over	existing	Туре	7	Noise Reduc	tion	
Receiver Name	No.	#DUs	Existing	No Barrier					With Barrier			
ATMOSPHERICS:		66 deg	F, 50% RH	!	_	+		or a differ	ent type with	approval of F	ΠVVA.	
ATMOSPUEDIOS:		CO -1	E 500/ DI						ghway agency			•
BARRIER DESIGN:		INPUT	HEIGHTS						avement type			
RUN:		_	_	Village to Hi	ghland							
PROJECT/CONTRACT:			Station SP	-								
RESULTS: SOUND LEVELS												
							Calculated	with TNM	1 2.5			
C. Dugan							TNM 2.5					
MIG							15 July 20	19				

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All Selected

All Impacted

All that meet NR Goal

15

RESULTS: SOUND LEVELS			·	·			Duarte Sta	tion SP Up	odate				
MIG							15 July 20))19					
C. Dugan							TNM 2.5						
							Calculate	d with TNN	1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		E19_04	_Duncann	on: Village to	Highland								
BARRIER DESIGN:		INPUT	HEIGHTS					Average	pavement typ	e shall be use	d unles	s	
								a State hi	ghway agend	y substantiat	es the u	se	
ATMOSPHERICS:		68 deg	F, 50% RH	ı				of a differ	ent type with	approval of F	HWA.		
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrie	•			-
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	ction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcu	lated
							Sub'l Inc					minus	3
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline		1 '	0.0	56.9	(56.9	9 (Snd Lvl	56.9	9 0.0)	0	0.
100 Feet from Centerline	2	2 '	0.0	53.2	! (53.2	2 (Snd Lvl	53.2	2 0.0)	0	0
Dwelling Units		# DUs	Noise Re	duction									
			Min	Avg	Max								

dB

0.0

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dB

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dB

2

All Selected

All Impacted

RESULTS: SOUND LEVELS			1	1	1			Duarte Sta	tion SP Up	odate			
MIG								15 July 20)19				
C. Dugan								TNM 2.5					
								Calculated	d with TNN	1 2.5			
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		E19_05	A_Evergre	en: E/O Moui	ntain								
BARRIER DESIGN:		INPUT	HEIGHTS						Average	pavement typ	e shall be use	d unless	5
									a State hi	ghway agend	y substantiate	s the us	se
ATMOSPHERICS:		68 deg	F, 50% RH	ĺ					of a differ	ent type with	approval of F	HWA.	
Receiver													
Name	No.	#DUs	Existing	No Barrier						With Barrie	r .		
			Lden	Lden		ı	Increase over	existing	Туре	Calculated	Noise Reduc	tion	
				Calculated	Crit'n	(Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
								Sub'l Inc					minus
													Goal
			dBA	dBA	dBA	C	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline		1 1	0.0	70.5	5	0	70.5	0	Snd Lvl	70.	5 0.0		0 (
100 Feet from Centerline	2	2 1	0.0	67.5	5	0	67.5	0	Snd Lvl	67.	5 0.0		0 (
Dwelling Units		# DUs	Noise Re	duction									
			Min	Avg	Max								
			dB	dB	dB								
All Selected		2	0.0	0.0) (0.0							
All Impacted		2	0.0	0.0) (0.0							
All that meet NR Goal		2	0.0	0.0) (0.0							

RESULTS: SOUND LEVELS			·				Duarte Sta	ation SP Up	odate				
MIG							15 July 20) 019					
C. Dugan							TNM 2.5						
							Calculate	d with TNN	1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		E19_05	B_Evergre	en: W/O Bue	naVista								
BARRIER DESIGN:		INPUT	HEIGHTS					Average	pavement typ	e shall be use	d unles	s	
								a State hi	ighway agend	y substantiat	es the u	se	
ATMOSPHERICS:		68 deg	F, 50% RH	ĺ				of a differ	rent type with	approval of F	HWA.		
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrie	r .			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	ction	-	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcu	lated
							Sub'l Inc					minus	3
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1	1	0.0	66.4		0 66.4		Snd Lvl	66.	4 0.0)	0	0.0
100 Feet from Centerline	2	2 1	0.0	63.3	3	0 63.3	3 (Snd Lvl	63.	3 0.0)	0	0.0
Dwelling Units		# DUs	Noise Re	duction									
			Min	Avg	Max								
			dB	dB	dB								

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All Selected

All Impacted

RESULTS: SOUND LEVELS							Duarte Sta	tion SP Up	odate			
MIG							15 July 20)19				
C. Dugan							TNM 2.5					
							Calculate	d with TNN	1 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		Duarte	Station SP	Update								
RUN:		E19_05	C_Evergre	en: Duncann	to HighInd							
BARRIER DESIGN:		INPUT	HEIGHTS					Average p	pavement type	shall be use	d unless	
								a State hi	ghway agenc	y substantiate	s the use	
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.	
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
		1 1	0.0	58.0	0	58.0	0	Snd Lvl	58.0	0.0		0.
50 Feet from Centerline	1	1 1	0.0	56.0	U	50.0	·	, Ona 211	00.0			
50 Feet from Centerline 100 Feet from Centerline		2 1	0.0						55.0	0.0		0.
		2 1		55.0						0.0		0 0.
100 Feet from Centerline		2 1	0.0	55.0						0.0		0.
100 Feet from Centerline		2 1	0.0 Noise Re	55.0 duction	0					0.0		0 0.

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All Impacted

			dB	Avg dB	dB									
Dwelling Units		# DUs	Noise Red		Max									
100 Feet from Centerline	2	1	0.0	62.	1 0	62.1	0	Snd Lvl	62.1	0.0		0	0	
50 Feet from Centerline	1	1	0.0				-		65.1			0	0.	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB		
												Goal		
							Sub'l Inc					minus		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcula	ted	
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion	<u> </u>		
Name	No.	#DUs	Existing	No Barrier					With Barrier					
Receiver											<u> </u>			
ATMOSPHERICS:		68 deg	F, 50% RH					of a different type with approval of FHWA.						
DARRIER DESIGN.		1141 01	ILLIGITIO						ghway agenc			9		
BARRIER DESIGN:			A_HIGHTS	d: Huntingto	n to Centra	1		Avorago r	oavement type	s chall ho uco	d unloce			
PROJECT/CONTRACT: RUN:			Station SP	-	n to Contro	•								
RESULTS: SOUND LEVELS		D	04-41 00	11										
							Calculated	with TNM	1 2.5					
C. Dugan							TNM 2.5							
MIG							15 July 20	19						
RESULTS: SOUND LEVELS							Duarte Sta		odate				_	

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All Selected

All Impacted

All that meet NR Goal

15

RESULTS: SOUND LEVELS					1	<u> </u>	Duarte Sta	TION SP U	oate				
MIG							15 July 20	110					
							_	פוט					
C. Dugan							TNM 2.5						
							Calculate	d with TNN	A 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		E19_06	B_Highlan	d: Central to	Evergreen								
BARRIER DESIGN:		INPUT	HEIGHTS					Average	pavement typ	oe shall be use	d unles	s	
								-		cy substantiate			
ATMOSPHERICS:		68 deg	F, 50% RH					of a different type with approval of FHWA.					
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrie	r			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcu	lated
							Sub'l Inc					minus	3
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1	1	0.0	68.7	C	68.7	7 C	Snd Lvl	68.	7 0.0		0	0.0
100 Feet from Centerline	2	2 1	0.0	65.1	C	65.1	ı c	Snd Lvl	65.	1 0.0		0	0.0
Dwelling Units		# DUs	Noise Red	duction									-
			Min	Avg	Max								
			dB	dB	dB								

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All Selected

All Impacted

All that meet NR Goal

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		1				Daar to Ote		<i>-</i> 4410		ĺ		
						15 July 20	│)19					
							d with TNN	12.5				
						Juiouluto						
	Duarte	Station SP	Update									
	E19_06	C_Highlan	d: Evergreen	to Bus Ctr	r							
			_				Average	pavement typ	e shall be use	d unles	iS	
	68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.		
No.	#DUs	Existing	No Barrier					With Barrie	•			
		Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion	-	
			Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcu	lated
						Sub'l Inc					minus	3
											Goal	
		dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
1	1	0.0	68.1	C	68.1	C	Snd Lvl	68.	0.0		0	0.0
2	2 1	0.0	64.3	3 (64.3	3 0	Snd Lvl	64.3	0.0	1	0	0.0
	# DUs	Noise Re	duction									
	1	E19_06 INPUT 68 deg No. #DUs	E19_06C_Highlan INPUT HEIGHTS 68 deg F, 50% RH No. #DUS Existing Lden dBA 1 1 0.0 2 1 0.0	INPUT HEIGHTS 68 deg F, 50% RH No. #DUs Existing No Barrier Lden Lden Calculated dBA dBA 1 1 0.0 68.1	E19_06C_Highland: Evergreen to Bus Ctr INPUT HEIGHTS 68 deg F, 50% RH No. #DUs Existing No Barrier Lden Lden Calculated Crit'n dBA dBA dBA 1 1 0.0 68.1 (0) 2 1 0.0 64.3 (0)	Duarte Station SP Update E19_06C_Highland: Evergreen to Bus Ctr INPUT HEIGHTS 68 deg F, 50% RH No. #DUs Existing No Barrier Lden Lden Increase over Calculated Crit'n Calculated Calculated Crit'n Calculated Calculated	15 July 20 TNM 2.5 Calculate	15 July 2019 TNM 2.5 Calculated with TNM	15 July 2019 TNM 2.5 Calculated with TNM 2.5	15 July 2019 TNM 2.5 Calculated with TNM 2.5	Duarte Station SP Update E19_06C_Highland: Evergreen to Bus Ctr INPUT HEIGHTS Average pavement type shall be used unless a State highway agency substantiates the u of a different type with approval of FHWA.	15 July 2019 TNM 2.5 Calculated with TNM 2.5

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All Selected

All Impacted

All that meet NR Goal

15

RESULTS: SOUND LEVELS Duarte Station SP Update MIG 15 July 2019 C. Dugan **TNM 2.5** Calculated with TNM 2.5 RESULTS: SOUND LEVELS PROJECT/CONTRACT: **Duarte Station SP Update** RUN: E19_06D_Highland: Bus Ctr to Duarte **BARRIER DESIGN: INPUT HEIGHTS** 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.	#DUs	Existing	No Barrier					With Barrier				
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcula	ated
							Sub'l Inc					minus	
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1	1	0.0	68.5	5 (0 68.5	C	Snd Lvl	68.5	0.0		0	0.0
100 Feet from Centerline	2	1	0.0	65.3	3 (0 65.3	C	Snd Lvl	65.3	0.0		0	0.0
Dwelling Units		# DUs	Noise Red	duction									
			Min	Avg	Max								
			dB	dB	dB								
All Selected		2	0.0	0.0	0.0	0							
All Impacted		2	0.0	0.0	0.0	ס							
All that meet NR Goal		2	0.0	0.0	0.0	0							

RESULTS: SOUND LEVELS				1				Duarte Sta	tion SP U	odate				
MIG								15 July 20) 19					
C. Dugan								TNM 2.5						
								Calculate	d with TNN	1 2.5				
RESULTS: SOUND LEVELS														
PROJECT/CONTRACT:		Duarte	Station SP	Update										
RUN:		E19_07	'A_Hunting	ton: BVista t	o Highlaı	nd								
BARRIER DESIGN:		INPUT	HEIGHTS						Average	pavement typ	e shall be use	d unles	s	
										ghway agenc				
ATMOSPHERICS:		68 deg	F, 50% RH	ĺ						ent type with				
Receiver														
Name	No.	#DUs	Existing	No Barrier						With Barrier				
			Lden	Lden		Inc	crease over	existing	Туре	Calculated	Noise Reduc	ction	-	
				Calculated	Crit'n	Ca	alculated	Crit'n	Impact	Lden	Calculated	Goal	Calcula	ted
								Sub'l Inc					minus	
													Goal	
			dBA	dBA	dBA	dB	3	dB		dBA	dB	dB	dB	
50 Feet from Centerline	,	1 1	0.0	73.2		0	73.2	C	Snd Lvl	73.2	0.0)	0	0.
100 Feet from Centerline	2	2 ′	0.0	70.3	1	0	70.3	C	Snd Lvl	70.3	0.0		0	0.
Dwelling Units		# DUs	Noise Re	duction										
			Min	Avg	Max									
			dB	dB	dB									
All Selected		2	0.0	0.0	(0.0								
All Impacted		2	2 0.0	0.0	(0.0								
All that meet NR Goal		2	2 0.0	0.0	(0.0								

RESULTS: SOUND LEVELS Duarte Station SP Update MIG 15 July 2019 C. Dugan **TNM 2.5** Calculated with TNM 2.5 RESULTS: SOUND LEVELS **Duarte Station SP Update** PROJECT/CONTRACT: RUN: E19_07B_Huntington:Highland to MtOlive **BARRIER DESIGN: INPUT HEIGHTS** 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 Existing No. #DUs No Barrier Name With Barrier Increase over existing Lden Lden Type Calculated Noise Reduction Calculated Crit'n Calculated Crit'n Impact Lden Calculated Goal Calculated Sub'l Inc minus Goal

			dBA	dBA	dBA		dB	dB		dBA	dB dB		dB
50 Feet from Centerline	1	1	0.0	73.7	7	0	73.7	0	Snd Lvl	73.7	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	70.8	3	0	70.8	0	Snd Lvl	70.8	0.0	0	0.0
Dwelling Units		# DUs	Noise Red	duction									
			Min	Avg	Max								
			dB	dB	dB								
All Selected		2	0.0	0.0) (0.0							
All Impacted		2	0.0	0.0) (0.0							
All that meet NR Goal		2	0.0	0.0) (0.0							

RESULTS: SOUND LEVELS							Duarte Sta	ation SP Up	date			
MIG							15 July 20	│ 019				
C. Dugan							TNM 2.5					
							Calculate	d with TNM	l 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		Duarte	Station S	P Update								
RUN:		E19_08	A_Mount	ain: Central to	Evergreei	n						
BARRIER DESIGN:		INPUT	HEIGHTS	;				Average p	pavement type	shall be us	ed unless	
								a State hig	ghway agenc	y substantiat	es the us	e
ATMOSPHERICS:		68 deg	F, 50% R	Н				of a differ	ent type with	approval of	FHWA.	
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier			
			Lden	Lden		Increase over	existing	Type	Calculated	Noise Redu	ction	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.	0 69.	7	0 69.7	′ (Snd Lvl	69.7	0.0	ס	0 0
100 Feet from Centerline	2	2 1	0.	0 65.9	9	0 65.9	(Snd Lvl	65.9	0.0	ס	0 0
Dwelling Units		# DUs	Noise R	eduction								
			Min	Avg	Max							
			-ID	al D	4D							
			dB	dB	dB							

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All Impacted

All that meet NR Goal

15

RESULTS: SOUND LEVELS Duarte Station SP Update MIG 15 July 2019 C. Dugan **TNM 2.5** Calculated with TNM 2.5 RESULTS: SOUND LEVELS PROJECT/CONTRACT: **Duarte Station SP Update** RUN: E19_08B_Mountain: Evergreen to Duarte **BARRIER DESIGN: INPUT HEIGHTS** 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 No Barrier No. #DUs Existing Name With Barrier Increase over existing Lden Lden Type Calculated Noise Reduction Calculated Crit'n Calculated Crit'n Impact Lden Calculated Goal Calculated Sub'l Inc minus Goal dB dBA dBA dBA dB dBA dB dB dB n

50 Feet from Centerline	1	1	0.0	69	.4	0	69.4	0	Snd Lvl	69.4	0.0	0	0.0
100 Feet from Centerline	2	1	0.0	66	.3	0	66.3	0	Snd Lvl	66.3	0.0	0	0.0
Dwelling Units		# DUs	Noise Re	duction									
			Min	Avg	Ma	х							
			dB	dB	dB								
All Selected		2	0.0) (.0	0.0							
All Impacted		2	0.0) (.0	0.0							
All that meet NR Goal		2	0.0) (.0	0.0							

15

RESULTS: SOUND LEVELS							Duarte Sta	tion SP Up	date			
MIG							17 July 20	 19				
C. Dugan							TNM 2.5					
							Calculated	d with TNN	1 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		Duarte	Station SP	Update								
RUN:		E19_09	A_I210: Ac	ljacent No B	arrier							
BARRIER DESIGN:		INPUT	HEIGHTS					Average p	pavement type	shall be use	d unless	
								a State hi	ghway agenc	y substantiate	s the us	е
ATMOSPHERICS:		68 deg	F, 50% RF	ĺ				of a differ	ent type with	approval of F	HWA.	
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier			
			Lden	Lden		Increase over	existing	Type	Calculated	Noise Reduc	tion	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculate
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
185 Feet from Centerline	1	1	0.0	71.	1 6	71.1	10	Snd Lvl	71.1	0.0		8 -
390 Feet from Centerline	2	2 1	0.0	74.	2 6	74.2	! 10	Snd Lvl	74.2	0.0		8 -
Dwelling Units		# DUs	Noise Re	duction								
_			Min	Avg	Max							
			dB	dB	dB							
All Selected		2	0.0	0.	0 0.0	D						
All Impacted		2	0.0	0.	0 0.0	D						
				0.	0 0.0							

RESULTS: SOUND LEVELS			T.	İ			Duarte Sta	tion SP Up	date		1		
MIG							17 July 20	│)19					
C. Dugan							TNM 2.5						
							Calculate	d with TNN	1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		E19_09	B_I210: Ad	jacent With E	Barrier								
BARRIER DESIGN:		INPUT	HEIGHTS					Average p	pavement type	shall be use	d unles	S	
								a State hi	ghway agency	y substantiate	s the us	se	
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.		
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrier				
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcula	ate
							Sub'l Inc					minus	
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
185 Feet from Centerline	1	1	0.0	66.5	66	66.5	10	Snd Lvl	66.5	0.0		8	-8
390 Feet from Centerline	2	1	0.0	64.3	66	64.3	10		64.3	0.0		8	
Dwelling Units		# DUs	Noise Red	duction									
			Min	Avg	Max								
			dB	dB	dB								
All Selected		2	0.0	0.0	0.0)							

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All Impacted

All that meet NR Goal

RESULTS: SOUND LEVELS							Duarte Stat	tion SP Up	date				
MIG							15 July 20	19					
C. Dugan							TNM 2.5						
							Calculated	with TNN	l 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		E19PP_	01A_Buen	aV: Hunting	to Central								
BARRIER DESIGN:		INPUT	HEIGHTS					Average p	oavement type	shall be use	d unless	š	
								a State hi	ghway agenc	y substantiate	s the us	Se	
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.		
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrier	-			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcula	ated
							Sub'l Inc					minus	
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1	1	0.0	69.4	- 60	69.4	10	Snd Lvl	69.4	0.0		8	-8.0
100 Feet from Centerline	2	. 1	0.0	66.4	- 66	66.4	10	Snd Lvl	66.4	0.0		8	-8.0
Dwelling Units		# DUs	Noise Re	duction									
			Min	Avg	Max								
			dB	dB	dB								
All Selected		2	0.0	0.0	0.0	D							
All Impacted		2	0.0	0.0	0.0	D							
All that meet NR Goal		0	0.0	0.0	0.0								

RESULTS: SOUND LEVELS	T T			Ti and the second secon			Duarte Sta	ation SP Up	odate				
MIG							15 July 20) 019					
C. Dugan							TNM 2.5						
							Calculate	d with TNN	1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		E19PP_	_01B_Buen	aV: Central	to 210WB								
BARRIER DESIGN:		INPUT	HEIGHTS					Average	pavement type	shall be use	d unles	s	
								a State hi	ghway agenc	y substantiate	es the u	se	
ATMOSPHERICS:		68 deg	F, 50% RH	ĺ				of a differ	ent type with	approval of F	HWA.		
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrier				
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcula	ated
							Sub'l Inc					minus	
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1	1	0.0	68.	0 (68.0	C	Snd Lvl	68.0	0.0		0	0.0
100 Feet from Centerline	2	2 1	0.0	63.	5 (63.5	C	Snd Lvl	63.5	0.0		0	0.0
Dwelling Units		# DUs	Noise Re	duction									
			Min	Avg	Max								
			dB	dB	dB								
All Selected		2	0.0	0.	0.0	D							
All Impacted		2	0.0	0.	0.0	D							
All that meet NR Goal		2	0.0	0.	0.0								

RESULTS: SOUND LEVELS				<u> </u>				Duarte Sta	tion SP Up	odate			
MIG								15 July 20	 19				
C. Dugan								TNM 2.5					
								Calculated	d with TNN	/I 2.5			
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		E19PP_	01C_Buen	aVist: 210W	B to 210E	В							
BARRIER DESIGN:		INPUT	HEIGHTS						Average	pavement type	shall be use	d unless	3
									a State hi	ighway agenc	y substantiat	s the us	e
ATMOSPHERICS:		68 deg	F, 50% RH	ĺ					of a differ	rent type with	approval of F	HWA.	
Receiver													
Name	No.	#DUs	Existing	No Barrier						With Barrier			
			Lden	Lden		Increase ov	er (existing	Туре	Calculated	Noise Reduc	tion	
				Calculated	Crit'n	Calculated		Crit'n	Impact	Lden	Calculated	Goal	Calculated
								Sub'l Inc					minus
													Goal
			dBA	dBA	dBA	dB		dB		dBA	dB	dB	dB
50 Feet from Centerline		1 1	0.0	68.	8	0 6	8.8	0	Snd Lvl	68.8	0.0		0 0
100 Feet from Centerline	2	2 1	0.0	64.	9	0 6	4.9	0	Snd Lvl	64.9	0.0		0 0
Dwelling Units		# DUs	Noise Re	duction									
			Min	Avg	Max								
			dB	dB	dB								
All Selected		2	0.0	0.	0	0.0							
All Impacted		2	0.0	0.	0	0.0							
All that meet NR Goal		2	0.0	0.	0	0.0			İ				

RESULTS: SOUND LEVELS			1				Duarte Sta	tion SP Up	odate				
MIG							15 July 20) 19					
C. Dugan							TNM 2.5						
							Calculate	d with TNN	1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		E19PP_	_01D_Buen	aVist: 210E	B to 3Ranc	h							
BARRIER DESIGN:		INPUT	HEIGHTS					Average p	pavement type	shall be use	d unles	ss	
								a State hi	ghway agenc	y substantiat	es the u	ıse	
ATMOSPHERICS:		68 deg	F, 50% RH	I				of a differ	ent type with	approval of F	HWA.		
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrier				
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcula	ıted
							Sub'l Inc					minus	
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1	1	0.0	68.	.9	0 68.9	C	Snd Lvl	68.9	0.0		0	0.0
100 Feet from Centerline	2	1	0.0	65.	.7	0 65.7	C	Snd Lvl	65.7	0.0		0	0.0
Dwelling Units		# DUs	Noise Re	duction									
			Min	Avg	Max								
			dB	dB	dB								
All Selected		2	0.0	0.	.0 0.	0							
All Impacted		2	0.0	0.	.0 0.	0							
All that meet NR Goal		2	0.0	0.	.0 0.	0					İ		

RESULTS: SOUND LEVELS							Duarte Sta	tion SP Up	date			
MIG							15 July 20	 19				
C. Dugan							TNM 2.5					
							Calculated	with TNN	1 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		Duarte	Station SP	Update								
RUN:		E19PP_	01E_Buen	aV: 3Ranch t	o Duarte							
BARRIER DESIGN:		INPUT	HEIGHTS					Average p	pavement type	shall be use	d unless	•
								a State hi	ghway agenc	y substantiate	s the us	e
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.	
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculate
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	68.5	5	0 68.5	0	Snd Lvl	68.5	0.0		0
100 Feet from Centerline	2	. 1	0.0	64.7	,	0 64.7	0	Snd Lvl	64.7	0.0		0
Dwelling Units		# DUs	Noise Re	duction								
			Min	Avg	Max							
			dB	dB	dB							
All Selected		2	0.0	0.0	0.	0						
All Impacted		2	0.0	0.0	0.	0						
All that meet NR Goal		2	0.0	0.0	0.	0						

RESULTS: SOUND LEVELS							Duarte Sta	tion SP Up	odate			
MIG							15 July 20	119				
C. Dugan							TNM 2.5	, 13				
O. Bugan								d with TNN	125			
RESULTS: SOUND LEVELS							Jaicalate		1 2.0			
PROJECT/CONTRACT:		Duarte	Station SP	Update								
RUN:				ral: E/O Mou	ıntain Ave							
BARRIER DESIGN:			HEIGHTS					Average p	pavement type	shall be use	d unless	
								a State hi	ghway agenc	y substantiate	es the use	•
ATMOSPHERICS:		68 deg	F, 50% RH	ĺ				of a differ	ent type with	approval of F	HWA.	
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	ction	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	69	.3 (69.3	0	Snd Lvl	69.3	0.0)	0 0
100 Feet from Centerline	2	1	0.0	66	.2 (66.2	. 0	Snd Lvl	66.2	0.0)	0 0
Dwelling Units		# DUs	Noise Re	duction								
			Min	Avg	Max							
			dB	dB	dB							

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

2 2 2

All Selected

All Impacted

RESULTS: SOUND LEVELS	1		1			<u> </u>	Duarte Sta	tion SP Up	ate		1	
MIG							15 July 20	│)19				
C. Dugan							TNM 2.5					
								d with TNN	1 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		Duarte	Station SP	Update								
RUN:		E19PP	_02B_Centr	al: W/O Bue	naVista							
BARRIER DESIGN:		INPUT	HEIGHTS					Average p	pavement type	shall be use	d unless	
								a State hi	ghway agenc	y substantiate	es the use	e
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.	
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	ction	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	65.3	3 (65.3	3 (Snd Lvl	65.3	0.0)	0
100 Feet from Centerline	2	2 1	0.0	62.3	3 (62.3	3 (Snd Lvl	62.3	0.0		0
Dwelling Units		# DUs	Noise Red	duction								
			Min	Avg	Max							
			dB	dB	dB							

0.0

0.0

0.0

0.0

0.0

2 2 2

0.0

0.0

0.0

All Selected

All Impacted

RESULTS: SOUND LEVELS	·		·	7			Duarte Sta	tion SP Up	odate				
MIG							15 July 20	119					
C. Dugan							TNM 2.5	,					
C. Dugan								d with TNN	125				
RESULTS: SOUND LEVELS							Calculate		n 2.5				
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:				ral: BuenaVis	to 210WB	3							
BARRIER DESIGN:			HEIGHTS					Average i	pavement typ	e shall be use	ed unles	S	
										y substantiat			
ATMOSPHERICS:		68 deg	F, 50% RH	l I						approval of F			
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrie	•			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	ction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcu	lated
							Sub'l Inc					minus	;
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1	1	0.0	68.1	(0 68.1	0	Snd Lvl	68.	1 0.0)	0	0.
100 Feet from Centerline	2	2 1	0.0	64.5	5 (0 64.5	5 (Snd Lvl	64.	5 0.0)	0	0
Dwelling Units		# DUs	Noise Re	duction									
			Min	Avg	Max								
			dB	dB	dB								

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

2 2 2

All Selected

All Impacted

C. Dugan							TNM 2.5	al:41a TNIR/				
							Calculated	d with TNN	1 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:			Station SP	-								
RUN:		E19PP_	_02D_Centi	ral: 210WB t	o Duncanno)						
BARRIER DESIGN:		INPUT	HEIGHTS					Average p	pavement type	shall be use	ed unless	
								a State hi	ghway agenc	y substantiate	es the use	.
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.	
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	ction	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	65.	5 C	65.5	0	Snd Lvl	65.5	0.0)	0 0
100 Feet from Centerline	2	1	0.0	62.	5 C	62.5	0	Snd Lvl	62.5	0.0		0 0
Dwelling Units		# DUs	Noise Re	duction								
			Min	Avq	Max							
			dB	dB	dB							

0.0

0.0

0.0

0.0

0.0

2 2 2

0.0

0.0

0.0

All Selected

All Impacted

			Min dB	Avg dB	Max dB								
Dwelling Units		# DUs		1									
100 Feet from Centerline	2	2 1	0.0	64.6	(64.6	6 C	Snd Lvl	64.6	0.0)	0	0.0
50 Feet from Centerline	1		0.0			67.6			67.6			0	0.0
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
												Goal	
							Sub'l Inc					minus	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcul	ated
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	ction		
Name	No.	#DUs	Existing	No Barrier					With Barrie	•			
Receiver													
ATMOSPHERICS:		68 deg	F, 50% RH	 						approval of F		,	
BARRIER DESIGN:		INPUI	HEIGHTS							e shall be use y substantiate			
RUN:		_		al: Duncanno	on to Highl	la						_	
PROJECT/CONTRACT:			Station SP	-									
RESULTS: SOUND LEVELS													
•							Calculate	d with TNN	1 2.5				
C. Dugan							TNM 2.5						
MIG							15 July 20	19					
							Dual to Oto						
RESULTS: SOUND LEVELS							Duarte Sta	tion SP Ur	date				

0.0

0.0

0.0

0.0

0.0

2 2 2

0.0

0.0

0.0

All Selected

All Impacted

RESULTS: SOUND LEVELS							Duarte Sta	tion SP Up	odate			
MIG							15 July 20) 19				
C. Dugan							TNM 2.5					
							Calculate	d with TNN	1 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		Duarte	Station SF	Update								
RUN:		E19PP_	_03A_Duai	rte: Mountain	to BuenaV							
BARRIER DESIGN:		INPUT	HEIGHTS					Average p	pavement type	e shall be us	ed unless	
								a State hi	ghway agenc	y substantiat	es the us	e
ATMOSPHERICS:		68 deg	F, 50% RI	4				of a differ	ent type with	approval of	FHWA.	
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier			
			Lden	Lden		Increase over	existing	Type	Calculated	Noise Redu	ction	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	70.5	C	70.5	C	Snd Lvl	70.5	0.0	O	0 0.
100 Feet from Centerline	2	1	0.0	67.6	C	67.6	C	Snd Lvl	67.6	0.0	0	0 0.
Dwelling Units		# DUs	Noise Re	duction								
			Min	Avg	Max							
			dB	dB	dB							
All Selected		2	0.0	0.0	0.0)						
		1		+		+		+				

0.0

0.0

0.0

All Impacted

All that meet NR Goal

2 2

0.0

0.0

RESULTS: SOUND LEVELS		-		·	-		Duarte Sta	tion SP U	odate				
MIG							15 July 20) 19					
C. Dugan							TNM 2.5						
							Calculate	d with TNN	/ 1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		E19PP	_03B_Duar	te: Buena Vis	ta to Cinco	0							
BARRIER DESIGN:		INPUT	HEIGHTS					Average	pavement typ	e shall be use	d unles	s	
								a State hi	ghway agend	y substantiat	es the u	se	
ATMOSPHERICS:		68 deg	F, 50% RH	ĺ				of a differ	rent type with	approval of F	HWA.		
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrie	r			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	ction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcu	lated
							Sub'l Inc					minus	S
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1	1 1	0.0	71.1	(71.1	С	Snd Lvl	71.	1 0.0)	0	0.0
100 Feet from Centerline	2	2 1	0.0	67.8	3 (67.8	3 0	Snd Lvl	67.	0.0)	0	0.0
Dwelling Units		# DUs	Noise Re	duction									
			Min	Avg	Max								
			dB	dB	dB								

0.0

0.0

0.0

0.0

0.0

2 2 2

0.0

0.0

0.0

All Selected

All Impacted

RESULTS: SOUND LEVELS								Di	uarte Sta	tion	SP Up	odate					
MIG								1	5 July 20) 19							
C. Dugan								Т	NM 2.5								
								С	Calculate	d wit	h TNN	/I 2.5					
RESULTS: SOUND LEVELS																	
PROJECT/CONTRACT:		Duarte	Station SP	Update													
RUN:				te: Cinco Rob	les to V	/illa	1										
BARRIER DESIGN:			HEIGHTS							Ave	rage i	pavement tv	pe shall be us	ed u	ınless	5	
													cy substantia				
ATMOSPHERICS:		68 deg	F, 50% RH										h approval of				
Receiver																	
Name	No.	#DUs	Existing	No Barrier								With Barrie	r				
			Lden	Lden			Increase over	·e	xisting	Тур	е	Calculated	Noise Redu	ctio	n		
				Calculated	Crit'n		Calculated	C	Crit'n	Imp	act	Lden	Calculated	Go	oal	Calcu	lated
								S	Sub'l Inc							minus	;
								T								Goal	
			dBA	dBA	dBA		dB	d	IB			dBA	dB	dB	3	dB	
50 Feet from Centerline	1	1	0.0	70.5		0	70.5	5	0) Sı	nd Lvl	70	.5 0.	0		0	0.0
100 Feet from Centerline	2	2 1	0.0	66.8		0	66.8	3	0) Sı	nd Lvl	66	.8 0.	0		0	0.0
Dwelling Units		# DUs	Noise Red	duction													
			Min	Avg	Max												
			dB	dB	dB												
All Selected		2	0.0	0.0		0.0											
All Impacted		2	0.0	0.0		0.0											
All that meet NR Goal		2	0.0	0.0		0.0											

RESULTS: SOUND LEVELS							Duarte Sta	ition SP Up	odate			
MIG							15 July 20)19				
C. Dugan							TNM 2.5					
							Calculate	d with TNN	1 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		Duarte	Station SP	Update								
RUN:		E19PP	_03D_Duar	te: Village to	Highland							
BARRIER DESIGN:		INPUT	HEIGHTS					Average p	pavement type	shall be use	ed unless	
								a State hi	ghway agenc	y substantiat	es the use	
ATMOSPHERICS:		68 deg	F, 50% RH	ĺ				of a differ	ent type with	approval of F	HWA.	
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Redu	ction	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	70.5	5 (70.5	5 0	Snd Lvl	70.5	0.0)	0.0
100 Feet from Centerline	2	2 1	0.0	67.6	6 (67.6	6 0	Snd Lvl	67.6	0.0)	0.0
Dwelling Units		# DUs	Noise Re	duction								
			Min	Avg	Max							

dB

0.0

0.0

0.0

dB

0.0

0.0

0.0

0.0

0.0

0.0

dB

2

All Selected

All Impacted

100 Feet from Centerline	2	! 1	0.0	53.5	(53.5	0	Snd Lvl	53.5	0.0)	0
50 Feet from Centerline	1	1	0.0	_					57.2			0
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
												Goal
							Sub'l Inc					minus
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
			Lden	Lden		Increase over	existing	Type	Calculated	Noise Reduc	ction	
Name	No.	#DUs	Existing	No Barrier					With Barrier	,		
Receiver												
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.	
									ghway agency			
BARRIER DESIGN:			HEIGHTS		g			Average r	pavement type	shall be use	ed unless	
RUN:				nnon: Village	to Highlar	n						
PROJECT/CONTRACT:		Duarte	Station SP	Update								
RESULTS: SOUND LEVELS							Calculate		1 2.0			
C. Dugan							TNM 2.5	d with TNN	125			
MIG							15 July 20	019				

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

2

2

All Selected

All Impacted

RESULTS: SOUND LEVELS							Duarte Sta	tion SP Up	odate				
MIG							15 July 20	 19					
C. Dugan							TNM 2.5						
							Calculated	d with TNN	1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		E19PP_	05A_Ever	green: E/O M	lountain								
BARRIER DESIGN:		INPUT	HEIGHTS					Average	pavement type	shall be use	d unles	s	
								a State hi	ghway agenc	y substantiate	s the u	se	
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.		
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrier				
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcula	ited
							Sub'l Inc					minus	
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1	1	0.0	70.	5 (70.5	5 0	Snd Lvl	70.5	0.0		0	0.0
100 Feet from Centerline	2	2 1	0.0	67.	6 (67.6	6 0	Snd Lvl	67.6	0.0)	0	0.0
Dwelling Units		# DUs	Noise Red	duction									
			Min	Avg	Max								
			dB	dB	dB								
All Selected		2	0.0	0.	0.0	D							
All Impacted		2	0.0	0.	0.0)							
All that meet NR Goal		2	0.0	0.0	0.0)							

RESULTS: SOUND LEVELS					Tr		Duarte Sta	ation SP Up	odate		1		
MIG							15 July 20	│ 019					
C. Dugan							TNM 2.5						
							Calculate	d with TNN	/ 1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:				green: W/O B	uenaVista								
BARRIER DESIGN:		INPUT	HEIGHTS					Average	pavement typ	e shall be use	d unless	S	
										y substantiat			
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	rent type with	approval of F	HWA.		
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrier				
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	ction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcul	ated
							Sub'l Inc					minus	
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1	1	0.0	66.4		66.4		Snd Lvl	66.4	0.0		0	0.0
100 Feet from Centerline	2	2 1	0.0	63.4	C	63.4	(Snd Lvl	63.4	0.0)	0	0.0
Dwelling Units		# DUs	Noise Re	duction				<u> </u>					
			Min	Avg	Max								
			dB	dB	dB								

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All Selected

All Impacted

RESULTS: SOUND LEVELS			7	1			Duarte Sta	tion SP Up	odate	·			
MIG							15 July 20	 19					
C. Dugan							TNM 2.5						
							Calculated	d with TNN	1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		E19PP_	05C_Ever	green: Dunca	nn to High	I							
BARRIER DESIGN:			HEIGHTS					Average	pavement type	shall be use	d unles	s	
								a State hi	ghway agenc	y substantiate	es the u	se	
ATMOSPHERICS:		68 deg	F, 50% RH						ent type with				
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrier				
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	ction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcula	ated
							Sub'l Inc					minus	
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1	1	0.0	58.6	3 0	58.6	0	Snd Lvl	58.6	0.0		0	0.0
100 Feet from Centerline	2	2 1	0.0	55.7	7 0	55.7	0	Snd Lvl	55.7	0.0)	0	0.0
Dwelling Units		# DUs	Noise Red	duction									
			Min	Avg	Max								
			dB	dB	dB								
All Selected		2	0.0	0.0	0.0)							
All Impacted		2	0.0	0.0	0.0)							
All that meet NR Goal		2	0.0	0.0	0.0)							

RESULTS: SOUND LEVELS								D	uarte Sta	tion	SP Up	odate					
MIG								1	5 July 20) 19							
C. Dugan									NM 2.5								
								C	alculate	d wi	th TNN	/ 1 2.5					
RESULTS: SOUND LEVELS																	
PROJECT/CONTRACT:		Duarte	Station SP	Update													
RUN:				and: Hunting	ton to C	en	tr										
BARRIER DESIGN:			HEIGHTS	_						Αv	erage i	pavement ty	oe shall be us	ed un	less		
													cy substantiat				
ATMOSPHERICS:		68 deg	F, 50% RH										approval of				
Receiver																	
Name	No.	#DUs	Existing	No Barrier								With Barrie	r				
			Lden	Lden			Increase over	e	xisting	Туј	ре	Calculated	Noise Redu	ction			
				Calculated	Crit'n		Calculated	C	rit'n	lm	pact	Lden	Calculated	Goa	ıl	Calcula	ited
								S	Sub'l Inc							minus	
																Goal	
			dBA	dBA	dBA		dB	d	В			dBA	dB	dB		dB	
50 Feet from Centerline	1	1 1	0.0	65.9		0	65.9)	0	S	and Lvl	65.	9 0.0)	()	0.0
100 Feet from Centerline	2	2 1	0.0	62.9		0	62.9)	0	S	nd Lvl	62.	9 0.0)	()	0.0
Dwelling Units		# DUs	Noise Re	duction													
			Min	Avg	Max												
			dB	dB	dB												
All Selected		2	0.0	0.0	(0.0											
All Impacted		2	0.0	0.0	(0.0											
All that meet NR Goal		2	0.0	0.0		0.0											

RESULTS: SOUND LEVELS							Duarte Sta	tion SP Up	date			
MIG							15 July 20) 19				
C. Dugan							TNM 2.5					
							Calculate	d with TNM	1 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		Duarte	Station SF	Update								
RUN:		E19PP_	06B_High	land: Central	to Evergre							
BARRIER DESIGN:		INPUT	HEIGHTS					Average p	avement type	shall be use	ed unless	
								a State hig	ghway agency	y substantiat	es the use	
ATMOSPHERICS:		68 deg	F, 50% RI	4				of a differ	ent type with	approval of F	HWA.	
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Redu	ction	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
						20.5	0	Snd Lvl	69.5	0.0) (0.
50 Feet from Centerline	1	1	0.0	69.5	0	69.5	ı U	Olid Evi	00.0		,	
50 Feet from Centerline 100 Feet from Centerline	1 2	1	0.0						65.9			0.
	1 2	1 1 # DUs		65.9								0.
100 Feet from Centerline	1 2		0.0	65.9								0.
100 Feet from Centerline	1 2		0.0	65.9	0							0.

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All Impacted

RESULTS: SOUND LEVELS								Duarte	Sta	tion SP Up	odate				
MIG								15 July	20	│ 1 19					
C. Dugan								TNM 2	5						
								Calcul	ate	d with TNN	/ 1 2.5				
RESULTS: SOUND LEVELS															
PROJECT/CONTRACT:		Duarte	Station SP	Update											
RUN:		E19PP	_06C_HighI	and: Evergr	een to B	sCt	r								
BARRIER DESIGN:		INPUT	HEIGHTS							Average	pavement typ	e shall be use	d unles	ss	
										a State hi	ghway agend	y substantiat	es the ເ	ıse	
ATMOSPHERICS:		68 deg	F, 50% RH									approval of F			
Receiver															
Name	No.	#DUs	Existing	No Barrier							With Barrie	<u> </u>			
			Lden	Lden			Increase over	existin	9	Туре	Calculated	Noise Reduc	ction		
				Calculated	Crit'n		Calculated	Crit'n		Impact	Lden	Calculated	Goal	Calc	ulated
								Sub'l li	ıc					minu	s
														Goal	
			dBA	dBA	dBA		dB	dB			dBA	dB	dB	dB	
50 Feet from Centerline	1	1 1	0.0	68.	9	0	68.9		0	Snd Lvl	68.	9 0.0)	0	0.
100 Feet from Centerline	2	2 1	0.0	65.	1	0	65.1		0	Snd Lvl	65.	1 0.0)	0	0.
Dwelling Units		# DUs	Noise Red	duction											
			Min	Avg	Max										
			dB	dB	dB										
All Selected		2	0.0	0.	0	0.0									
All Impacted		2	0.0	0.	0	0.0									
All that meet NR Goal		2	0.0	0.	0	0.0									

RESULTS: SOUND LEVELS	İ			T		Ţ	Duarte Sta	tion SP Up	odate			
MIG							15 July 20	│)19				
C. Dugan							TNM 2.5					
							Calculate	d with TNN	1 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		Duarte	Station SP	Update								
RUN:		E19PP	_06D_Highl	and: Bus Ctr	to Duarte							
BARRIER DESIGN:		INPUT	HEIGHTS					Average p	pavement typ	e shall be use	ed unless	•
								a State hi	ghway agenc	y substantiat	es the us	e
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.	
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier			
			Lden	Lden		Increase over	existing	Type	Calculated	Noise Reduc	ction	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	,	1 1	0.0	69.2	? (69.2	! (Snd Lvl	69.2	0.0)	0
100 Feet from Centerline	2	2 1	0.0	66.0	(66.0	(Snd Lvl	66.0	0.0)	0
Dwelling Units		# DUs	Noise Re	duction								
			Min	Avg	Max							
			dB	dB	dB							
All Selected		2	0.0	0.0	0.0	า						

0.0

All Impacted

All that meet NR Goal

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RESULTS: SOUND LEVELS		7					Duarte Sta	tion SP Up	date				
MIG							15 July 20) 19					
C. Dugan							TNM 2.5						
							Calculate	d with TNN	1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		E19PP_	07A_Hunti	ington: BVis	ta to Highla	ın							
BARRIER DESIGN:		INPUT	HEIGHTS					Average	pavement type	shall be use	d unles	s	
								a State hi	ghway agenc	y substantiate	s the us	se	
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.		
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrier				
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcula	ited
							Sub'l Inc					minus	
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1	1	0.0	73.	.2 (73.2	. C	Snd Lvl	73.2	0.0		0	0.0
100 Feet from Centerline	2	2 1	0.0	70.	.3 (70.3	C	Snd Lvl	70.3	0.0		0	0.0
Dwelling Units		# DUs	Noise Re	duction									
_			Min	Avg	Max								
			dB	dB	dB								
All Selected		2	0.0	0.	0.0)							
All Impacted		2	0.0	0.	0.0								
All that meet NR Goal		2	0.0	0.	0.0)							

RESULTS: SOUND LEVELS						Duarte Sta	tion SP Up	odate				
MIG						15 July 20))19					
C. Dugan						TNM 2.5						
						Calculate	d with TNN	1 2.5				
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:	Duarte	Station SP	Update									
RUN:	E19PP	_07B_Hunti	ington:Highl	and to MtO	liv							
BARRIER DESIGN:	INPUT	HEIGHTS					Average	pavement typ	e shall be use	d unles	s	
							a State hi	ghway agenc	y substantiate	s the u	se	
ATMOSPHERICS:	68 deg	F, 50% RH	ĺ				of a differ	ent type with	approval of F	HWA.		
Receiver												
Name No.	#DUs	Existing	No Barrier					With Barrier				
		Lden	Lden		Increase over	existing	Type	Calculated	Noise Reduc	tion		
			Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcula	ated
						Sub'l Inc					minus	
											Goal	
		dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1 '	0.0	74.	0 0	74.0) C	Snd Lvl	74.0	0.0		0	0.0
100 Feet from Centerline	2 ′	0.0	71.	1 (71.1	C	Snd Lvl	71.1	0.0		0	0.0
Dwelling Units	# DUs	Noise Re	duction									
		Min	Avg	Max								
		dB	dB	dB								
All Selected	2	0.0	0.	0.0)							
All Impacted	2	0.0	0.	0.0)							
All that meet NR Goal	2	0.0	0.0	0.0)							

RESULTS: SOUND LEVELS						Duarte Sta	tion SP Up	odate		1		
MIG						15 July 20	19					
C. Dugan						TNM 2.5						
						Calculated	d with TNN	1 2.5				
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:	Duarte	Station SP	Update									
RUN:			ntain: Centra	l to Evergr	e							
BARRIER DESIGN:		HEIGHTS		J			Average p	pavement type	shall be use	d unless		
								ghway agenc				
ATMOSPHERICS:	68 deg	F, 50% RH						ent type with	=			
Receiver												
Name No.	#DUs	Existing	No Barrier					With Barrier				
		Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion		
			Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculate	∍d
						Sub'l Inc					minus	
											Goal	
		dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1 1	0.0	69.	3 (69.8	0	Snd Lvl	69.8	0.0		0	0.0
100 Feet from Centerline	2 1	0.0	65.	9 (65.9	0	Snd Lvl	65.9	0.0		0	0.0
Dwelling Units	# DUs	Noise Red	duction									_
		Min	Avg	Max								
		dB	dB	dB								
All Selected	2	0.0	0.	0.0)							
All Impacted	2	0.0	0.	0.0	0							
All that meet NR Goal	2	0.0	0.0	0.0	า		İ					

RESULTS: SOUND LEVELS							Duarte Sta	ntion SP Up	odate			
MIG							15 July 20	│)19				
C. Dugan							TNM 2.5					
							Calculate	d with TNN	1 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		Duarte	Station SP	Update								
RUN:		E19PP_	_08B_Mour	ntain: Evergre	en to Dua	r						
BARRIER DESIGN:		INPUT	HEIGHTS					Average	pavement type	shall be use	d unless	
								a State hi	ghway agenc	y substantiat	s the use	
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.	
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	69.5	5 (69.5	C	Snd Lvl	69.5	0.0	(0.
100 Feet from Centerline	2	1	0.0	66.4	. (66.4		Snd Lvl	66.4	0.0	(0.
Dwelling Units		# DUs	Noise Re	duction								
			Min	Avg	Max							
			dB	dB	dB							

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All Selected

All Impacted

						Duarte Sta	tion SP Up	date			
						17 July 20)19				
						TNM 2.5					
						Calculated	d with TNN	1 2.5			
	Duarte	Station SF	Update								
	E19PP_	_09A_I210	Adjacent No	Barrier							
	INPUT	HEIGHTS					Average p	pavement type	shall be use	ed unless	
							a State hi	ghway agenc	y substantiat	es the use	i
	68 deg	F, 50% RI	1				of a differ	ent type with	approval of I	HWA.	
No.	#DUs	Existing	No Barrier					With Barrier			
		Lden	Lden		Increase over	existing	Type	Calculated	Noise Redu	ction	
			Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculate
						Sub'l Inc					minus
											Goal
		dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
1	1	0.0	71.1	6	71.1	10	Snd Lvl	71.1	0.0)	8
2	1	0.0	74.2	2 6	6 74.2	10	Snd Lvl	74.2	0.0) ;	8
	# DUs	Noise Re	duction								
	# DUs	Noise Re	Avg	Max							
	# DUs			Max dB							
	1	E19PP_ INPUT 68 deg	E19PP_09A_I210 INPUT HEIGHTS 68 deg F, 50% RI No. #DUs Existing Lden dBA 1 1 0.0	INPUT HEIGHTS 68 deg F, 50% RH No. #DUs Existing No Barrier Lden Lden Calculated dBA dBA 1 1 0.0 71.1	E19PP_09A_I210: Adjacent No Barrier INPUT HEIGHTS 68 deg F, 50% RH No. #DUs Existing No Barrier Lden Calculated Crit'n dBA dBA dBA dBA 1 1 0.0 71.1 6	Duarte Station SP Update E19PP_09A_I210: Adjacent No Barrier INPUT HEIGHTS 68 deg F, 50% RH No. #DUs Existing No Barrier Lden Lden Increase over Calculated Crit'n Calculated dBA dBA dBA dBA dB 1 1 0.0 71.1 66 71.1	17 July 20 TNM 2.5 Calculated	17 July 2019 TNM 2.5 Calculated with TNM	TNM 2.5 Calculated with TNM 2.5 Duarte Station SP Update E19PP_09A_I210: Adjacent No Barrier INPUT HEIGHTS Average pavement type a State highway agency of a different type with No. #DUs Existing No Barrier Lden Lden Increase over existing Calculated Crit'n Sub'l Inc Diagram of Average pavement type a State highway agency of a different type with Calculated Crit'n Sub'l Inc Diagram of Average pavement type a State highway agency of a different type with Of a different type with Average pavement type a State highway agency of a different type with Of a different type with	TNM 2.5 Calculated with TNM 2.5 Calculated with TNM 2.5 Duarte Station SP Update E19PP_09A_I210: Adjacent No Barrier INPUT HEIGHTS Average pavement type shall be use a State highway agency substantiat of a different type with approval of I No. #DUs Existing No Barrier Lden Lden Increase over existing Calculated Crit'n Sub'l Inc Calculated Crit'n Sub'l Inc dBA dBA dBA dBA dB dB dB dBA dBA 1 1 0.0 71.1 66 71.1 10 Snd Lvl 71.1 0.00	Duarte Station SP Update E19PP_09A_I210: Adjacent No Barrier INPUT HEIGHTS Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA. No. #DUS Existing No Barrier Lden Lden Increase over existing Calculated Crit'n Calculated Crit'n Sub'l Inc dBA dBA dBA dBA dB dB dB dBA dBA dB dB 1 1 0.0 71.1 66 71.1 10 Snd Lvl 71.1 0.0 88

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All Impacted

							Duarte Sta	ation SP Up	odate				
							17 July 20	│ 019					
							TNM 2.5						
							Calculate	d with TNN	1 2.5				
	Duarte	Station SF	Update										
	E19PP_	_09B_I210:	Adjacent V	Vith Barı	ier								
	INPUT	HEIGHTS						Average	pavement typ	oe shall be use	d unles	s	
								a State hi	ghway agen	cy substantiat	es the u	se	
	68 deg	F, 50% RI	1					of a differ	ent type with	n approval of I	HWA.		
No.	#DUs	Existing	No Barrie						With Barrie	r			
		Lden	Lden			Increase over	existing	Туре	Calculated	Noise Redu	ction		
			Calculated	l Crit'n		Calculated	Crit'n	Impact	Lden	Calculated	Goal	Cald	ulated
							Sub'l Inc					min	us
												Goa	I
		dBA	dBA	dBA		dB	dB		dBA	dB	dB	dB	
1	1	0.0) 66	3.5	66	66.5	10	Snd Lvl	66.	5 0.0)	8	-8.
2	2 1	0.0	0 64	1.3	66	64.3	10)	64.	3 0.0)	8	-8.
	# DUs	Noise Re	duction										
		Min	Avg	Max									
		Min dB	Avg dB	Max dB									
	1	E19PP_INPUT 68 deg No. #DUs	E19PP_09B_I210: INPUT HEIGHTS 68 deg F, 50% RI No. #DUS Existing Lden dBA 1 1 0.0 2 1 0.0	No. #DUS Existing No Barrier Lden Calculated dBA dBA 1	E19PP_09B_I210: Adjacent With Barr INPUT HEIGHTS 68 deg F, 50% RH No. #DUs Existing No Barrier Lden Lden Calculated Crit'n dBA dBA dBA dBA 1 1 0.0 66.5 2 1 0.0 64.3	E19PP_09B_I210: Adjacent With Barrier INPUT HEIGHTS 68 deg F, 50% RH No. #DUs Existing No Barrier Lden Lden Calculated Crit'n dBA dBA dBA dBA 1 1 0.0 66.5 66 2 1 0.0 64.3 66	Duarte Station SP Update E19PP_09B_1210: Adjacent With Barrier INPUT HEIGHTS 68 deg F, 50% RH No. #DUs Existing No Barrier Lden Lden Increase over Calculated Crit'n Calcu	17 July 26 TNM 2.5 Calculate	17 July 2019 TNM 2.5 Calculated with TNM	Duarte Station SP Update E19PP_09B_I210: Adjacent With Barrier INPUT HEIGHTS Average pavement type a State highway agency of a different type with	17 July 2019 TNM 2.5 Calculated with TNM 2.5	17 July 2019 TNM 2.5 Calculated with TNM 2.5	17 July 2019 TNM 2.5 Calculated with T

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0.0

All Impacted

RESULTS: SOUND LEVELS		1	1				Duarte Sta	tion SP Up	ate		1		
MIG							15 July 20	 19					
C. Dugan							TNM 2.5						
							Calculated	d with TNN	1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		F25_01	A_BuenaV	ista: Hunting	to Central								
BARRIER DESIGN:		INPUT	HEIGHTS					Average p	pavement type	shall be use	d unless		
								a State hi	ghway agenc	y substantiate	es the us	е	
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.		
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrier				
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	ction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcula	ated
							Sub'l Inc					minus	
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1	1	0.0	70.3	3 66	70.3	10	Snd Lvl	70.3	0.0)	8	-8.
100 Feet from Centerline	2	1	0.0	67.3	3 66	67.3	10	Snd Lvl	67.3	0.0)	8	-8.
Dwelling Units		# DUs	Noise Re	duction									
			Min	Avg	Max								
			dB	dB	dB								

0.0

0.0

0.0

0.0

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2 0

0.0

0.0

0.0

All Selected

All Impacted

RESULTS: SOUND LEVELS							Duarte Sta	ation SP U	odate			
MIG							15 July 20	│ 019				
C. Dugan							TNM 2.5					
							Calculate	d with TNN	/I 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		Duarte	Station SP	Update								
RUN:		F25_01	B_BuenaVi	ista: Central	to 210WB							
BARRIER DESIGN:		INPUT	HEIGHTS					Average	pavement typ	e shall be use	d unles	s
								a State hi	ighway agend	y substantiat	es the u	se
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	rent type with	approval of I	HWA.	
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrie	•		
			Lden	Lden		Increase over	existing	Type	Calculated	Noise Redu	ction	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1 1	0.0	68.8	3 (68.8	(Snd Lvl	68.8	0.0)	0 0
100 Feet from Centerline	2	2 1	0.0	64.2	2 (64.2		Snd Lvl	64.2	2 0.0)	0 0
Dwelling Units		# DUs	Noise Red	duction								
			Min	Avg	Max							
			dB	dB	dB							
All Selected		2	0.0	0.0	0.0	D						
		+	1	1		1						

0.0

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All Impacted

All that meet NR Goal

2 2

0.0

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RESULTS: SOUND LEVELS						·	Duarte Sta	tion SP Up	odate		1		
MIG							15 July 20)19					
C. Dugan							TNM 2.5						
							Calculate	d with TNN	1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		F25_01	C_BuenaV	ista: 210WB t	o 210EB								
BARRIER DESIGN:		INPUT	HEIGHTS					Average	pavement typ	e shall be use	d unles	S	
								a State hi	ghway agend	y substantiat	es the u	se	
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.		
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrie	r			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	ction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcu	lated
							Sub'l Inc					minus	3
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1	1 1	0.0	69.7	C	69.7	ď	Snd Lvl	69.	7 0.0		0	0.0
100 Feet from Centerline	2	2 1	0.0	65.9	0	65.9) (Snd Lvl	65.9	9 0.0		0	0.0
Dwelling Units		# DUs	Noise Re	duction									
			Min	Avg	Max								
			dB	dB	dB								

0.0

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2 2 2

0.0

0.0

0.0

All Selected

All Impacted

RESULTS: SOUND LEVELS			·		1	<u> </u>	Duarte Sta	tion SP Up	Juale				
MIG							15 July 20	110					
								פוט					
C. Dugan							TNM 2.5						
							Calculate	d with TNN	/ 1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		F25_01	D_BuenaV	ista: 210EB to	o 3Ranch								
BARRIER DESIGN:		INPUT	HEIGHTS					Average	pavement typ	e shall be use	d unles	s	
										y substantiat			
ATMOSPHERICS:		68 deg	F, 50% RH	l						approval of F			
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrie	•			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	ction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcul	lated
							Sub'l Inc					minus	;
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1	1	0.0	70.0) (70.0	0	Snd Lvl	70.0	0.0)	0	0.
100 Feet from Centerline	2	2 1	0.0	66.7	(0 66.7	ď	Snd Lvl	66.	7 0.0)	0	0
Dwelling Units		# DUs	Noise Re	duction									-
			Min	Avg	Max								
			dB	dB	dB								

0.0

0.0

0.0

0.0

0.0

2 2

0.0

0.0

0.0

All Selected

All Impacted

RESULTS: SOUND LEVELS						·	Duarte Sta	ation SP U	odate				
MIG							15 July 20	 019					
C. Dugan							TNM 2.5						
o. Dugan								d with TNN	125				
RESULTS: SOUND LEVELS							Guiodiato		1 2.0				
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		F25_01	E_BuenaV	ista: 3Ranch	to Duarte								
BARRIER DESIGN:			HEIGHTS					Average	pavement typ	shall be use	ed unless	3	
										cy substantiat			
ATMOSPHERICS:		68 deg	F, 50% RH	l						approval of F			
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrie	r			
			Lden	Lden		Increase over	existing	Type	Calculated	Noise Redu	ction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcul	ated
							Sub'l Inc					minus	
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1	1 1	0.0	69.4	. (69.4		Snd Lvl	69.	4 0.0)	0	0.0
100 Feet from Centerline	2	2 1	0.0	65.6	6 (65.6	C	Snd Lvl	65.	6 0.0)	0	0.0
Dwelling Units		# DUs	Noise Re	duction									
			Min	Avg	Max								
			dB	dB	dB								

0.0

0.0

0.0

0.0

0.0

2 2 2

0.0

0.0

0.0

All Selected

All Impacted

RESULTS: SOUND LEVELS						Duarte Sta	tion SP Up	date			
MIG						15 July 20	∣ 19				
C. Dugan						TNM 2.5					
						Calculated	d with TNN	1 2.5			
RESULTS: SOUND LEVELS											
PROJECT/CONTRACT:	Duarte	Station SP	Update								
RUN:	F25_0	2A_Central:	E/O Mountai	n Ave							
BARRIER DESIGN:	INPUT	HEIGHTS					Average p	pavement type	shall be use	d unless	
							a State hi	ghway agenc	y substantiate	s the use	•
ATMOSPHERICS:	68 de	F, 50% RH	İ				of a differ	ent type with	approval of F	HWA.	
Receiver											
Name No.	#DUs	Existing	No Barrier					With Barrier			
		Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion	
			Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
						Sub'l Inc					minus
											Goal
		dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1 0.0	69.8	3 (69.8	0	Snd Lvl	69.8	0.0		0 0.
100 Feet from Centerline	2	1 0.0	66.7	' (66.7	0	Snd Lvl	66.7	0.0		0 0.
Dwelling Units	# DUs	Noise Re	duction								
		Min	Avg	Max							
		dB	dB	dB							
All Selected	:	2 0.0	0.0	0.0)						
		_		0.0	_						

0.0

0.0

All that meet NR Goal

15

RESULTS: SOUND LEVELS								Duarte S	Sta	tion SP Up	odate				
MIG								15 July	20	 19					
C. Dugan								TNM 2.5	5						
								Calcula	tec	d with TNN	1 2.5				
RESULTS: SOUND LEVELS															
PROJECT/CONTRACT:		Duarte	Station SP	Update											
RUN:		F25_02	B_Central:	W/O Buena\	/ista										
BARRIER DESIGN:		INPUT	HEIGHTS							Average p	pavement typ	e shall be use	d unles	S	
												y substantiat			
ATMOSPHERICS:		68 deg	F, 50% RH									approval of F			
Receiver															
Name	No.	#DUs	Existing	No Barrier							With Barrie	r			
			Lden	Lden			Increase over	existing	ı	Туре	Calculated	Noise Reduc	tion	-	
				Calculated	Crit'n		Calculated	Crit'n		Impact	Lden	Calculated	Goal	Calcu	ılated
								Sub'l In	С					minu	S
														Goal	
			dBA	dBA	dBA		dB	dB			dBA	dB	dB	dB	
50 Feet from Centerline	1	1 1	0.0	65.6	6	0	65.6		0	Snd Lvl	65.	6 0.0		0	0.
100 Feet from Centerline	2	2 1	0.0	62.6	6	0	62.6		0	Snd Lvl	62.	6 0.0		0	0.
Dwelling Units		# DUs	Noise Red	duction											
			Min	Avg	Max										
			dB	dB	dB										
All Selected		2	0.0	0.0)	0.0									
All Impacted		2	0.0	0.0)	0.0									
All that meet NR Goal		2	0.0	0.0)	0.0									

15

RESULTS: SOUND LEVELS								Duarte Sta	tion SP L	pdate					
MIG								15 July 20) 19						
C. Dugan								TNM 2.5							
								Calculate	d with TN	M 2.5					
RESULTS: SOUND LEVELS															
PROJECT/CONTRACT:		Duarte	Station SP	Update											
RUN:		F25_02	C_Central:	BuenaVis to	210WB										
BARRIER DESIGN:		INPUT	HEIGHTS						Average	paven	nent typ	e shall be use	d unles	S	
									a State I	ighwa	y agend	y substantiat	s the u	se	
ATMOSPHERICS:		68 deg	F, 50% RH						of a diffe	erent ty	pe with	approval of F	HWA.		
Receiver															
Name	No.	#DUs	Existing	No Barrier						With	Barrier	r .			
			Lden	Lden			Increase over	existing	Type	Calc	ulated	Noise Reduc	tion		
				Calculated	Crit'n		Calculated	Crit'n	Impact	Lder	1	Calculated	Goal	Calcula	ited
								Sub'l Inc						minus	
														Goal	
			dBA	dBA	dBA		dB	dB		dBA		dB	dB	dB	
50 Feet from Centerline		1 1	0.0	68.5	5	0	68.5	(Snd Lv	I	68.5	5 0.0)	0	0.0
100 Feet from Centerline	2	2 1	0.0	64.9)	0	64.9	C	Snd Lv	I	64.9	9 0.0		0	0.0
Dwelling Units		# DUs	Noise Re	duction											
			Min	Avg	Max										
			dB	dB	dB										
All Selected		2	0.0	0.0)	0.0									
All Impacted		2	0.0	0.0)	0.0									
All that meet NR Goal		2	0.0	0.0)	0.0									

15

RESULTS: SOUND LEVELS							Duarte Sta	tion SP Up	odate				
MIG							15 July 20	│)19					
C. Dugan							TNM 2.5						
							Calculate	d with TNN	1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		F25_02	D_Central:	210WB to Du	ıncannor	1							
BARRIER DESIGN:		INPUT	HEIGHTS					Average	pavement typ	e shall be use	d unles	s	
								a State hi	ghway agend	cy substantiat	es the us	se	
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.		
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrie	r			
			Lden	Lden		Increase ove	r existing	Туре	Calculated	Noise Reduc	ction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcula	ted
							Sub'l Inc					minus	
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1	1 1	0.0	65.6	1	0 65.	6 C	Snd Lvl	65.	6 0.0)	0	0.0
100 Feet from Centerline	2	2 1	0.0	62.6		0 62.	6 0	Snd Lvl	62.	6 0.0		0	0.0
Dwelling Units		# DUs	Noise Red	duction									
			Min	Avg	Max								
			dB	dB	dB								
All Selected		2	0.0	0.0	0	.0							
All Impacted		2	0.0	0.0	0	.0							
All that meet NR Goal		2	0.0	0.0	0	.0							

15

RESULTS: SOUND LEVELS							Duarte Sta	ation SP Up	odate				
MIG							15 July 20	019					
C. Dugan							TNM 2.5						
							Calculate	d with TNN	1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		F25_02	E_Central:	Duncannon	to Highlai	nd							
BARRIER DESIGN:			HEIGHTS					Average	pavement typ	e shall be use	d unles	s	
								a State hi	ghway agend	y substantiat	es the u	ıse	
ATMOSPHERICS:		68 deg	F, 50% RH	1						approval of F			
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrier	r			
			Lden	Lden		Increase over	existing	Type	Calculated	Noise Reduc	ction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculate	ed
							Sub'l Inc					minus	
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	-
50 Feet from Centerline	1	1 1	0.0	67.6	6	0 67.6	6 () Snd Lvl	67.6	6 0.0)	0	0.
100 Feet from Centerline	2	2 1	0.0	64.7	,	0 64.7	7 (Snd Lvl	64.7	7 0.0)	0	0.
Dwelling Units		# DUs	Noise Re	duction									
			Min	Avg	Max								
			dB	dB	dB								
All Selected		2	0.0	0.0	0	.0							
All Impacted		2	0.0	0.0	0	.0							
All that meet NR Goal		2	0.0	0.0	0	.0							

15

RESULTS: SOUND LEVELS			<u> </u>				T	Duarte	Sta	tion SP Up	odate		1		
MIG								15 Jul	y 20) 19					
C. Dugan								TNM 2	2.5						
								Calcu	late	d with TNN	/ 1 2.5				
RESULTS: SOUND LEVELS															
PROJECT/CONTRACT:		Duarte	Station SP	Update											
RUN:		F25_03	A_Duarte:	Mountain to	Buena V	'ist									
BARRIER DESIGN:		INPUT	HEIGHTS							Average	pavement typ	e shall be use	d unles	s	
										a State hi	ghway agend	y substantiat	s the u	se	
ATMOSPHERICS:		68 deg	F, 50% RH							of a differ	rent type with	approval of F	HWA.		
Receiver															
Name	No.	#DUs	Existing	No Barrier							With Barrie	<u> </u>			
			Lden	Lden			Increase over	existir	ng	Туре	Calculated	Noise Reduc	tion		
				Calculated	Crit'n		Calculated	Crit'n		Impact	Lden	Calculated	Goal	Calcu	ılated
								Sub'l	Inc					minu	S
														Goal	
			dBA	dBA	dBA		dB	dB			dBA	dB	dB	dB	
50 Feet from Centerline	1	1 1	0.0	71.0)	0	71.0		C	Snd Lvl	71.0	0.0		0	0.
100 Feet from Centerline	2	2 1	0.0	68.1		0	68.1		C	Snd Lvl	68.	1 0.0		0	0.
Dwelling Units		# DUs	Noise Re	duction											
			Min	Avg	Max										
			dB	dB	dB										
All Selected		2	2 0.0	0.0)	0.0									
All Impacted		2	0.0	0.0)	0.0									
All that meet NR Goal		2	0.0	0.0)	0.0									

15

RESULTS: SOUND LEVELS							Duarte Sta	ation SP U	pdate		1	
MIG							15 July 20	│ 019				
C. Dugan							TNM 2.5					
							Calculate	d with TNI	И 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		Duarte	Station SP	Update								
RUN:		F25_03	B_Duarte:	Buena Vista	o Cinco							
BARRIER DESIGN:			HEIGHTS					Average	pavement typ	e shall be use	d unles	s
								a State h	ighway agenc	y substantiat	es the u	se
ATMOSPHERICS:		68 deg	F, 50% RH					of a diffe	rent type with	approval of F	HWA.	
Receiver								1				
Name	No.	#DUs	Existing	No Barrier					With Barrier	•		
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	ction	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline		1 ′	0.0	71.7		0 71.7		Snd Lvl	71.7	7 0.0		0 (
100 Feet from Centerline	2	2 ′	0.0	68.5		0 68.5		Snd Lvl	68.5	0.0)	0 (
Dwelling Units		# DUs	Noise Re	duction								
			Min	Avg	Max							
			dB	dB	dB							
All Selected		2	2 0.0	0.0	0	.0						
All Impacted		2	0.0	0.0	0	.0						
All that meet NR Goal		2	2 0.0	0.0	0	.0						

RESULTS: SOUND LEVELS							Duarte Sta	tion SP Up	date			
MIG							15 July 20	19				
C. Dugan							TNM 2.5					
							Calculated	l with TNM	1 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		Duarte	Station SP	Update								
RUN:		F25_03	C_Duarte:	Cinco Roble	s to Village							
BARRIER DESIGN:		INPUT	HEIGHTS					Average p	oavement type	shall be use	d unless	
								a State hig	ghway agenc	y substantiate	es the use	
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.	
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	ction	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	71.	1 (71.1	0	Snd Lvl	71.1	0.0) (0.
100 Feet from Centerline	2	2 1	0.0	67.	5 0	67.5	0	Snd Lvl	67.5	0.0) (0.
Dwelling Units		# DUs	Noise Re	duction								

Max

0.0

0.0

0.0

dB

0.0

0.0

0.0

All Selected

All Impacted

All that meet NR Goal

Min

dB

2

2

Avg

dB

0.0

0.0

0.0

RESULTS: SOUND LEVELS							Duarte Sta	ation SP Up	odate			
MIG							15 July 20	│ 019				
C. Dugan							TNM 2.5					
							Calculate	d with TNN	1 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		Duarte	Station SP	Update								
RUN:		F25_03	D_Duarte:	Village to Hig	ghland							
BARRIER DESIGN:		INPUT	HEIGHTS					Average	pavement typ	shall be use	d unless	S
								a State hi	ghway agenc	y substantiat	es the us	ie
ATMOSPHERICS:		68 deg	F, 50% RH	1				of a differ	ent type with	approval of F	HWA.	
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	ction	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1 1	0.0	70.5	5 (70.5	5 (Snd Lvl	70.5	0.0)	0 0
100 Feet from Centerline	2	2 1	0.0	67.6	6 (0 67.6	6 (Snd Lvl	67.6	0.0)	0 0
Dwelling Units		# DUs	Noise Re	duction								
			Min	Avg	Max							
			dB	dB	dB							
All Selected		2	2 0.0	0.0	0.0	_						

0.0

0.0

0.0

All Impacted

All that meet NR Goal

2 2

0.0

0.0

15

RESULTS: SOUND LEVELS								Duarte :	Sta	tion SP Up	odate				
MIG								15 July	20	 19					
C. Dugan								TNM 2.	5						
								Calcula	ate	d with TNN	1 2.5				
RESULTS: SOUND LEVELS															
PROJECT/CONTRACT:		Duarte	Station SP	Update											
RUN:		F25_04	_Duncanno	on: Village to	Highla	nd									
BARRIER DESIGN:		INPUT	HEIGHTS							Average	pavement typ	oe shall be use	d unles	ss	
										a State hi	ghway agen	cy substantiat	es the u	ıse	
ATMOSPHERICS:		68 deg	F, 50% RH									n approval of F			
Receiver															
Name	No.	#DUs	Existing	No Barrier							With Barrie	r			
			Lden	Lden			Increase over	existing	9	Туре	Calculated	Noise Reduc	ction		
				Calculated	Crit'n		Calculated	Crit'n		Impact	Lden	Calculated	Goal	Calc	ulated
								Sub'l Ir	ıc					minu	s
														Goal	
			dBA	dBA	dBA		dB	dB			dBA	dB	dB	dB	
50 Feet from Centerline	1	1 1	0.0	57.	1	0	57.1		0	Snd Lvl	57.	1 0.0)	0	0.
100 Feet from Centerline	2	2 1	0.0	53.	5	0	53.5		0	Snd Lvl	53.	5 0.0)	0	0.
Dwelling Units		# DUs	Noise Red	duction											
			Min	Avg	Max										
			dB	dB	dB										
All Selected		2	0.0	0.0)	0.0									
All Impacted		2	0.0	0.0)	0.0									
All that meet NR Goal		2	0.0	0.0)	0.0									

RESULTS: SOUND LEVELS							Duarte Sta	tion SP Up	odate		1		
MIG							15 July 20	 19					
C. Dugan							TNM 2.5						
							Calculated	d with TNN	1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:	Duarte	Station SP	Update										
RUN:	F25_05	A_Evergre	en: E/O M	ountain									
BARRIER DESIGN:	INPUT	HEIGHTS						Average	pavement type	shall be use	d unless		
								a State hi	ghway agenc	y substantiate	es the use)	
ATMOSPHERICS:	68 deg	F, 50% RH						of a differ	ent type with	approval of F	HWA.		
Receiver													
Name No.	#DUs	Existing	No Barrie	r					With Barrier				
		Lden	Lden			Increase over	existing	Туре	Calculated	Noise Reduc	ction		
			Calculate	d Crit	'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculat	ted
							Sub'l Inc					minus	
												Goal	
		dBA	dBA	dBA		dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1 1	0.0	7	1.1	C	71.1	0	Snd Lvl	71.1	0.0)	0	0.0
100 Feet from Centerline	2 1	0.0	6	8.1	0	68.1	0	Snd Lvl	68.1	0.0)	0	0.0
Dwelling Units	# DUs	Noise Red	duction										
		Min	Avg	Ма	X								
		dB	dB	dB									
All Selected	2	0.0		0.0	0.0								
All Impacted	2	0.0		0.0	0.0)							
All that meet NR Goal	2	0.0		0.0	0.0)							

15

RESULTS: SOUND LEVELS					1		Duarte Sta	tion SP U	odate			Ţ.	
MIG							15 July 20) 19					
C. Dugan							TNM 2.5						
							Calculate	d with TNN	Л 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		F25_05	B_Evergre	en: W/O Buei	naVista								
BARRIER DESIGN:		INPUT	HEIGHTS					Average	pavement typ	e shall be use	d unles	s	
								a State hi	ighway agend	cy substantiat	es the u	se	
ATMOSPHERICS:		68 deg	F, 50% RH	ĺ				of a differ	rent type with	approval of F	HWA.		
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrie	r			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Redu	ction	-	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcu	ılated
							Sub'l Inc					minus	s
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	•	1 1	0.0	67.4	(67.4		Snd Lvl	67.	4 0.0)	0	0.0
100 Feet from Centerline	2	2 1	0.0	64.3	3 (64.3	3 (Snd Lvl	64.	3 0.0)	0	0.0
Dwelling Units		# DUs	Noise Re	duction									
			Min	Avg	Max								
			dB	dB	dB								

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

2 2 2

All Selected

All Impacted

RESULTS: SOUND LEVELS							Duarte Sta	ation SP U	pdate			
MIG							15 July 20	│ 019				
C. Dugan							TNM 2.5					
							Calculate	d with TNN	VI 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		Duarte	Station SP	Update								
RUN:		F25_05	C_Evergre	en: Duncann	to HighInd	I						
BARRIER DESIGN:		INPUT	HEIGHTS					Average	pavement typ	e shall be use	d unles	3
								a State hi	ighway agend	y substantiat	es the us	ie
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	rent type with	approval of I	HWA.	
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier	•		
			Lden	Lden		Increase over	existing	Type	Calculated	Noise Redu	ction	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1 1	0.0	58.3	3 C	58.3	C	Snd Lvl	58.3	0.0)	0 0
100 Feet from Centerline	2	2 1	0.0	55.4	1 C	55.4		Snd Lvl	55.4	4 0.0)	0 0
Dwelling Units		# DUs	Noise Red	duction								
			Min	Avg	Max							
			dB	dB	dB							
All Selected		2	0.0	0.0	0.0)						
		+	1	-	+	1						

0.0

0.0

0.0

All Impacted

All that meet NR Goal

2 2 2

0.0

0.0

RESULTS: SOUND LEVELS			<u> </u>				<u> </u>	Duarte	Sta	tion SP Up	odate		1	1	
MIG								15 July	20	 19					
C. Dugan								TNM 2	5						
								Calcul	ate	d with TNN	1 2.5				
RESULTS: SOUND LEVELS															
PROJECT/CONTRACT:		Duarte	Station SP	Update											
RUN:		F25_06	A_Highland	d: Huntingtor	n to Cen	tra	I								
BARRIER DESIGN:		INPUT	HEIGHTS							Average	pavement typ	e shall be use	d unles	s	
												y substantiat			
ATMOSPHERICS:		68 deg	F, 50% RH									approval of F			
Receiver															
Name	No.	#DUs	Existing	No Barrier							With Barrie	r			
			Lden	Lden			Increase over	existin	g	Туре	Calculated	Noise Reduc	ction		
				Calculated	Crit'n		Calculated	Crit'n		Impact	Lden	Calculated	Goal	Calc	ulated
								Sub'l I	10					minu	s
														Goal	
			dBA	dBA	dBA		dB	dB			dBA	dB	dB	dB	
50 Feet from Centerline	1	1 1	0.0	65.6	6	0	65.6		0	Snd Lvl	65.	6 0.0)	0	0.
100 Feet from Centerline	2	2 1	0.0	62.6	6	0	62.6		0	Snd Lvl	62.	6 0.0		0	0.
Dwelling Units		# DUs	Noise Red	duction											
			Min	Avg	Max										
			dB	dB	dB										
All Selected		2	2 0.0	0.0)	0.0									
All Impacted		2	0.0	0.0)	0.0									
All that meet NR Goal		2	0.0	0.0)	0.0									

15

RESULTS: SOUND LEVELS							Duarte S	tat	tion SP Up	date				
MIG							15 July	20	19					
C. Dugan							TNM 2.5	5						
							Calculat	ted	with TNM	l 2.5				
RESULTS: SOUND LEVELS														
PROJECT/CONTRACT:		Duarte	Station SF	Update										
RUN:		F25_06	B_Highlan	d: Central to	Evergree	n								
BARRIER DESIGN:		INPUT	HEIGHTS						Average p	avement typ	e shall be use	d unle	ss	
									a State hig	ghway agend	y substantiat	es the ı	use	
ATMOSPHERICS:		68 deg	F, 50% RI	1							approval of F			
Receiver														
Name	No.	#DUs	Existing	No Barrier						With Barrier	r			
			Lden	Lden		Increase over	existing		Туре	Calculated	Noise Reduc	ction		
				Calculated	Crit'n	Calculated	Crit'n		Impact	Lden	Calculated	Goal	Calc	ulated
							Sub'l Inc	С					minu	IS
													Goal	
			dBA	dBA	dBA	dB	dB			dBA	dB	dB	dB	
50 Feet from Centerline	1	1 1	0.0	69.2	2	0 69.2	2	0	Snd Lvl	69.2	2 0.0)	0	0.
100 Feet from Centerline	2	2 1	0.0	65.6	6	0 65.6	3	0	Snd Lvl	65.6	6 0.0)	0	0.
Dwelling Units		# DUs	Noise Re	duction										
			Min	Avg	Max									
			dB	dB	dB									
All Selected		2	0.0	0.0	0	.0								
All Impacted		2	0.0	0.0	0	.0								
All that meet NR Goal		2	0.0	0.0	0	.0								

15

RESULTS: SOUND LEVELS						Duarte Sta	tion SP Up	odate			
MIG						15 July 20)19				
C. Dugan						TNM 2.5					
						Calculated	d with TNN	1 2.5			
RESULTS: SOUND LEVELS											
PROJECT/CONTRACT:	Duarte	Station SP	Update								
RUN:			d: Evergreeı	to Bus Cti	•						
BARRIER DESIGN:		HEIGHTS	•				Average p	pavement type	shall be use	d unless	
								ghway agenc			9
ATMOSPHERICS:	68 deg	F, 50% RH						ent type with	=		
Receiver											
Name No.	#DUs	Existing	No Barrier					With Barrier			
		Lden	Lden		Increase over	existing	Type	Calculated	Noise Reduc	tion	
			Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
						Sub'l Inc					minus
											Goal
		dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1 1	0.0	68.	6 (68.6	0	Snd Lvl	68.6	0.0		0 0.0
100 Feet from Centerline	2 1	0.0	64.	8 (64.8	0	Snd Lvl	64.8	0.0		0.0
Dwelling Units	# DUs	Noise Re	duction								
		Min	Avg	Max							
		dB	dB	dB							
All Selected	2	0.0	0.	0.0	D						
All Impacted	2	0.0	0.	0.0	D						
All that meet NR Goal	2	0.0	0.	0.0)						

15

MIG							15 July 20	19				
C. Dugan							TNM 2.5					
							Calculated	d with TNN	l 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		Duarte	Station SP	Update								
RUN:		F25_06	D_Highlan	d: Bus Ctr to	Duarte							
BARRIER DESIGN:		INPUT	HEIGHTS					Average p	pavement type	shall be use	d unless	
								a State hi	ghway agenc	y substantiate	es the use	•
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.	
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	69.0) (69.0	0	Snd Lvl	69.0	0.0		0 0
100 Feet from Centerline	2	1	0.0	65.8	3 0	65.8	0	Snd Lvl	65.8	0.0		0 0
Dwelling Units		# DUs	Noise Re	duction								
			Min	Avg	Max							

dB

0.0

0.0

0.0

dB

0.0

0.0

0.0

0.0

0.0

0.0

dB

2

All Selected

All Impacted

All that meet NR Goal

15

RESULTS: SOUND LEVELS				T				Dua	arte Sta	tion SP U	pdate	1			
MIG								15	July 20	 19					
C. Dugan								TN	M 2.5						
								Ca	lculated	d with TNI	VI 2.5				
RESULTS: SOUND LEVELS															
PROJECT/CONTRACT:		Duarte	Station SP	Update											
RUN:		F25_07	A_Hunting	ton: BVista t	o Highla	nd									
BARRIER DESIGN:		INPUT	HEIGHTS							Average	pavement typ	e shall be use	d unles	s	
										a State h	ighway agend	y substantiat	es the u	se	
ATMOSPHERICS:		68 deg	F, 50% RH							of a diffe	rent type with	approval of F	HWA.		
Receiver															
Name	No.	#DUs	Existing	No Barrier							With Barrie	r .			
			Lden	Lden			Increase over	exi	sting	Туре	Calculated	Noise Reduc	ction		
				Calculated	Crit'n		Calculated	Cri	it'n	Impact	Lden	Calculated	Goal	Calcu	ılated
								Su	b'l Inc					minu	s
														Goal	
			dBA	dBA	dBA		dB	dB			dBA	dB	dB	dB	
50 Feet from Centerline	1	1 1	0.0	73.9)	0	73.9)	0	Snd Lvl	73.	9 0.0)	0	0.
100 Feet from Centerline	2	2 1	0.0	71.0)	0	71.0)	0	Snd Lvl	71.	0.0)	0	0.
Dwelling Units		# DUs	Noise Re	duction											
			Min	Avg	Max										
			dB	dB	dB										
All Selected		2	2 0.0	0.0)	0.0									
All Impacted		2	0.0	0.0)	0.0									
All that meet NR Goal		2	0.0	0.0)	0.0				<u> </u>					

RESULTS: SOUND LEVELS							Duarte Sta	ntion SP Up	odate				
MIG							15 July 20))19					
C. Dugan							TNM 2.5						
							Calculate	d with TNN	1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SF	Update									
RUN:		F25_07	B_Hunting	ton:Highlan	d to MtOliv	е							
BARRIER DESIGN:		INPUT	HEIGHTS					Average p	pavement type	shall be use	d unless	;	
								a State hi	ghway agenc	y substantiat	es the us	e	
ATMOSPHERICS:		68 deg	F, 50% RI	1				of a differ	ent type with	approval of F	HWA.		
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrier				
			Lden	Lden		Increase over	r existing	Туре	Calculated	Noise Reduc	ction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcu	ated
							Sub'l Inc					minus	i
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1	1	0.0	74	5	0 74.5	5 (Snd Lvl	74.5	0.0)	0	0.0
100 Feet from Centerline	2	2 1	0.0	71.	6	0 71.6	6 0	Snd Lvl	71.6	0.0)	0	0.0
Dwelling Units		# DUs	Noise Re	duction									
			Min	Avg	Max								

dB

0.0

0.0

0.0

dB

0.0

0.0

0.0

0.0

0.0

0.0

dB

2

2

All Selected

All Impacted

RESULTS: SOUND LEVELS			1					Duarte Sta	tion SP Up	odate			
MIG								15 July 20	 19				
C. Dugan								TNM 2.5					
								Calculated	d with TNN	1 2.5			
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		F25_08	A_Mountai	n: Central to	Evergre	en							
BARRIER DESIGN:		INPUT	HEIGHTS		_				Average p	pavement typ	e shall be use	d unless	5
									a State hi	ghway agend	y substantiate	es the us	se
ATMOSPHERICS:		68 deg	F, 50% RH	l							approval of F		
Receiver													
Name	No.	#DUs	Existing	No Barrier						With Barrie	r .		
			Lden	Lden		ı	ncrease over	existing	Туре	Calculated	Noise Reduc	ction	
				Calculated	Crit'n	(Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
								Sub'l Inc					minus
													Goal
			dBA	dBA	dBA	C	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline		1 1	0.0	70.5		0	70.5	0	Snd Lvl	70.	5 0.0		0 0
100 Feet from Centerline	2	2 1	0.0	66.7		0	66.7	0	Snd Lvl	66.7	7 0.0)	0 0
Dwelling Units		# DUs	Noise Re	duction									
			Min	Avg	Max								
			dB	dB	dB								
All Selected		2	0.0	0.0	(0.0							
All Impacted		2	0.0	0.0	(0.0							
All that meet NR Goal		2	0.0	0.0) (0.0							

RESULTS: SOUND LEVELS							Duarte Sta	ition SP U	odate				
MIG							15 July 20	 019					
C. Dugan							TNM 2.5						
O. Dugan							-	d with TNN	125				
RESULTS: SOUND LEVELS							Calculate		n 2.5				
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:				n: Evergreen	to Duarte								
BARRIER DESIGN:		_	HEIGHTS	•				Average	pavement typ	e shall be use	d unless	3	
								-		y substantiat			
ATMOSPHERICS:		68 deg	F, 50% RH	<u> </u>						approval of F			
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrie	r			
			Lden	Lden		Increase over	existing	Type	Calculated	Noise Reduc	ction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcul	ated
							Sub'l Inc					minus	
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1	1	0.0	69.8	3 (69.8	C	Snd Lvl	69.	0.0)	0	0.
100 Feet from Centerline	2	1	0.0	66.7	(66.7	C	Snd Lvl	66.	7 0.0)	0	0
Dwelling Units		# DUs	Noise Re	duction									
			Min	Avg	Max								
			dB	dB	dB								

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

2 2 2

All Selected

All Impacted

All that meet NR Goal

15

RESULTS: SOUND LEVELS		T	1				Duarte	Sta	tion SP Up	date		7		
MIG							17 Jul	v 20) 19					
C. Dugan							TNM 2	-						
- 3							Calcu	late	d with TNM	1 2.5				
RESULTS: SOUND LEVELS														
PROJECT/CONTRACT:		Duarte	Station SP	Update										
RUN:		F25_09	A_I210: Ac	ljacent No Ba	arrier									
BARRIER DESIGN:			HEIGHTS						Average p	avement typ	e shall be use	d unles	s	
									a State hig	ghway agend	y substantiat	es the us	se	
ATMOSPHERICS:		68 deg	F, 50% RH	ł					of a differ	ent type with	approval of F	HWA.		
Receiver														
Name	No.	#DUs	Existing	No Barrier						With Barrie	r			
			Lden	Lden		Increase o	er existir	ng	Туре	Calculated	Noise Reduc	ction		
				Calculated	Crit'n	Calculated	Crit'n		Impact	Lden	Calculated	Goal	Calcu	ılated
							Sub'l	Inc					minus	s
													Goal	
			dBA	dBA	dBA	dB	dB			dBA	dB	dB	dB	
185 Feet from Centerline	1	1	0.0	71.6	3	66 7	1.6	10	Snd Lvl	71.6	0.0)	8	-8.
390 Feet from Centerline	2	. 1	0.0	74.7	7	66 7	4.7	10	Snd Lvl	74.7	7 0.0)	8	-8.
		" D.I.	Naiss Da	duction										
Dwelling Units		# DUS	Noise Re	auction										
Dwelling Units		# DUS	Min	Avg	Max									
Dwelling Units		# DUS		1	Max dB									

0.0

0.0

0.0

All Impacted

All that meet NR Goal

2 0

0.0

0.0

						Duarte Sta	ation SP Up	date				
						17 July 20	│ 019					
						TNM 2.5						
						Calculate	d with TNM	l 2.5				
	Duarte	Station SF	Update									
	F25_09	B_I210: Ad	djacent With I	Barrier								
	INPUT	HEIGHTS					Average p	oavement typ	e shall be use	ed unles	s	
							a State high	ghway agenc	y substantiat	es the u	se	
	68 deg	F, 50% RI	1				of a differ	ent type with	approval of F	HWA.		
No.	#DUs	Existing	No Barrier					With Barrier				
		Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	ction		
			Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcula	ated
						Sub'l Inc					minus	
											Goal	
		dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
1	1	0.0	67.3	3 6	67.3	3 10	Snd Lvl	67.3	0.0)	8	-8.0
2	2 1	0.0	65.1	1 6	65.1	10)	65.1	0.0)	8	-8.0
	# DUs	Noise Re	duction									
		Min	Avg	Max								
		dB	dB	dB								
	1	F25_09 INPUT 68 deg No. #DUs	F25_09B_I210: Ac INPUT HEIGHTS 68 deg F, 50% RI No. #DUs Existing Lden dBA 1 1 0.0 2 1 0.0 # DUs Noise Re	No. #DUs Existing No Barrier Lden Calculated dBA dBA 1	F25_09B_I210: Adjacent With Barrier INPUT HEIGHTS 68 deg F, 50% RH No. #DUs Existing No Barrier Lden Calculated Crit'n dBA dBA dBA dBA 1	F25_09B_I210: Adjacent With Barrier INPUT HEIGHTS 68 deg F, 50% RH No. #DUs Existing No Barrier Lden Lden Calculated Crit'n Calculated	17 July 20 TNM 2.5 Calculate	17 July 2019 TNM 2.5 Calculated with TNM	TNM 2.5 Calculated with TNM 2.5	17 July 2019 TNM 2.5 Calculated with TNM 2.5	17 July 2019 TNM 2.5 Calculated with TNM 2.5	17 July 2019 TNM 2.5 Calculated with TNM 2.5

0.0

0.0

0.0

0.0

0.0

All Impacted

All that meet NR Goal

RESULTS: SOUND LEVELS							Duarte Sta	tion SP Up	odate				
MIG							15 July 20	 19					
C. Dugan							TNM 2.5						
							Calculate	d with TNN	1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		F25PP	_01A_Buen	aV: Hunting t	o Central								
BARRIER DESIGN:		INPUT	HEIGHTS					Average	pavement typ	e shall be use	d unles	ss	
								a State hi	ghway agenc	y substantiat	es the u	se	
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.		
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrier	•			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	ction	-	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcula	ated
							Sub'l Inc					minus	
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline		1 1	0.0	70.3	66	70.3	10	Snd Lvl	70.3	0.0)	8	-8.0
100 Feet from Centerline		2 1	0.0	67.3	66	67.3	10	Snd Lvl	67.3	0.0		8	-8.0
Dwelling Units		# DUs	Noise Re	duction									
			Min	Avg	Max								
			dB	dB	dB								
All Selected		2	0.0	0.0	0.0)							
All Impacted		2	0.0	0.0	0.0)							
All that meet NR Goal		C	0.0	0.0	0.0)							

RESULTS: SOUND LEVELS			7				Duarte Sta	tion SP Up	odate		1		
MIG							15 July 20	 19					
C. Dugan							TNM 2.5						
							Calculated	d with TNN	1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:	Duarte	Station SP	Update										
RUN:	F25PP	_01B_Buen	aV: Centra	I to 210W	В								
BARRIER DESIGN:	INPUT	HEIGHTS						Average	pavement type	shall be use	d unless		
								a State hi	ghway agenc	y substantiate	es the use)	
ATMOSPHERICS:	68 deg	F, 50% RH	l					of a differ	ent type with	approval of F	HWA.		
Receiver													
Name No.	#DUs	Existing	No Barrie	•					With Barrier				
		Lden	Lden			Increase over	existing	Туре	Calculated	Noise Reduc	ction		
			Calculated	d Crit'n		Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcula	ted
							Sub'l Inc					minus	
												Goal	
		dBA	dBA	dBA		dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1 1	0.0	6	3.8	0	68.8	0	Snd Lvl	68.8	0.0)	0	0.0
100 Feet from Centerline	2 1	0.0	6-	4.3	0	64.3	0	Snd Lvl	64.3	0.0)	0	0.0
Dwelling Units	# DUs	Noise Re	duction										
-		Min	Avg	Max									
		dB	dB	dB									
All Selected	2	2 0.0		0.0	0.0								
All Impacted	2	0.0		0.0	0.0								
All that meet NR Goal	2	0.0		0.0	0.0								

RESULTS: SOUND LEVELS									Duarte Sta	tion SP Up	date		1		
MIG									15 July 20	 19					
C. Dugan									TNM 2.5						
									Calculated	d with TNN	1 2.5				
RESULTS: SOUND LEVELS															
PROJECT/CONTRACT:		Duarte	Station SP	Update											
RUN:		F25PP	_01C_Buen	aVist: 210	WB t	o 210E	В								
BARRIER DESIGN:		INPU	T HEIGHTS							Average p	pavement typ	e shall be use	d unles	s	
										a State hi	ghway agenc	y substantiat	s the u	se	
ATMOSPHERICS:		68 de	g F, 50% RH	ł						of a differ	ent type with	approval of F	HWA.		
Receiver															
Name	No.	#DUs	Existing	No Barrie	er						With Barrier				
			Lden	Lden			In	crease over	existing	Туре	Calculated	Noise Reduc	tion		
				Calculate	d (Crit'n	C	alculated	Crit'n	Impact	Lden	Calculated	Goal	Calcul	ated
									Sub'l Inc					minus	i
														Goal	
			dBA	dBA	c	lВА	dE	В	dB		dBA	dB	dB	dB	
50 Feet from Centerline		1	1 0.0) 6	89.8		0	69.8	0	Snd Lvl	69.8	0.0)	0	0.0
100 Feet from Centerline		2	1 0.0) 6	35.9		0	65.9	0	Snd Lvl	65.9	0.0		0	0.0
Dwelling Units		# DUs	Noise Re	duction											
			Min	Avg		Мах									
			dB	dB		dB									
All Selected			2 0.0)	0.0	0	0.0								
All Impacted			2 0.0)	0.0	0	0.0								
All that meet NR Goal			2 0.0)	0.0	0	0.0								

RESULTS: SOUND LEVELS								Duarte Sta	tion SP Up	odate		1		
MIG								15 July 20	 19					
C. Dugan								TNM 2.5						
								Calculated	d with TNN	1 2.5				
RESULTS: SOUND LEVELS														
PROJECT/CONTRACT:		Duarte	Station SP	Update										
RUN:		F25PP	_01D_Buen	aVist: 210E	B to 3	Ranch	1							
BARRIER DESIGN:		INPU	T HEIGHTS						Average p	pavement typ	e shall be use	d unles	s	
									a State hi	ghway agenc	y substantiat	es the u	se	
ATMOSPHERICS:		68 de	g F, 50% RH	ł					of a differ	ent type with	approval of F	HWA.		
Receiver														
Name	No.	#DUs	Existing	No Barrie	,					With Barrier				
			Lden	Lden			Increase over	existing	Туре	Calculated	Noise Reduc	ction		
				Calculated	Crit	'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcul	ated
								Sub'l Inc					minus	
													Goal	
			dBA	dBA	dB/	١	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline		1	1 0.0	7().2	0	70.2	0	Snd Lvl	70.2	0.0)	0	0.0
100 Feet from Centerline		2	1 0.0	6	6.9	0	66.9	0	Snd Lvl	66.9	0.0		0	0.0
Dwelling Units		# DUs	Noise Re	duction										
			Min	Avg	Ма	X								
			dB	dB	dB									
All Selected			2 0.0) (0.0	0.0)							
All Impacted			2 0.0) (0.0	0.0								
All that meet NR Goal			2 0.0		0.0	0.0)							

RESULTS: SOUND LEVELS		<u> </u>	,				Duarte Sta	tion SP Up	odate	·			
MIG							15 July 20	 19					
C. Dugan							TNM 2.5						
							Calculated	d with TNN	1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:	Duarte	Station SP	Update										
RUN:	F25PP	_01E_Buen	aV: 3Rand	h to Du	arte								
BARRIER DESIGN:	INPUT	HEIGHTS						Average	pavement type	shall be use	d unless		
								a State hi	ghway agenc	y substantiate	es the use)	
ATMOSPHERICS:	68 deg	F, 50% RH	ĺ					of a differ	ent type with	approval of F	HWA.		
Receiver													
Name No.	#DUs	Existing	No Barrie	er					With Barrier				
		Lden	Lden			Increase over	existing	Туре	Calculated	Noise Reduc	ction		
			Calculate	d Crit	'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculat	ted
							Sub'l Inc					minus	
												Goal	
		dBA	dBA	dBA		dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1 1	0.0	6	39.7	0	69.7	0	Snd Lvl	69.7	0.0)	0	0.0
100 Feet from Centerline	2 1	0.0	6	35.9	0	65.9	0	Snd Lvl	65.9	0.0)	0	0.0
Dwelling Units	# DUs	Noise Re	duction										
		Min	Avg	Ma	X								
		dB	dB	dB									
All Selected	2	2 0.0	-	0.0	0.0								
All Impacted	2	0.0		0.0	0.0)							
All that meet NR Goal	2	0.0		0.0	0.0	1							

RESULTS: SOUND LEVELS									Duarte Sta	tion SP Up	odate			1	
MIG									15 July 20	 19					
C. Dugan									TNM 2.5						
									Calculate	d with TNN	/ 1 2.5				
RESULTS: SOUND LEVELS															
PROJECT/CONTRACT:		Duarte	Station SP	Update											
RUN:		F25PP	_02A_Cent	ral: E/O M	lount	ain Ave)								
BARRIER DESIGN:		INPU	T HEIGHTS							Average	pavement typ	e shall be use	d unles	ss	
										a State hi	ghway agend	y substantiat	es the u	ıse	
ATMOSPHERICS:		68 de	g F, 50% RH	1						of a differ	rent type with	approval of F	HWA.		
Receiver															
Name	No.	#DUs	Existing	No Barri	er						With Barrie	r			
			Lden	Lden				Increase over	existing	Туре	Calculated	Noise Reduc	ction		
				Calculat	ed	Crit'n		Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcu	ılated
									Sub'l Inc					minu	s
														Goal	
			dBA	dBA		dBA		dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline		1	1 0.0)	69.8		0	69.8	0	Snd Lvl	69.8	0.0)	0	0.
100 Feet from Centerline		2	1 0.0)	66.7		0	66.7	0	Snd Lvl	66.	7 0.0)	0	0.
Dwelling Units		# DUs	Noise Re	duction											
_			Min	Avg		Max									
			dB	dB		dB									
All Selected			2 0.0)	0.0		0.0								
All Impacted			2 0.0)	0.0		0.0								
All that meet NR Goal			2 0.0		0.0		0.0								

RESULTS: SOUND LEVELS	i i		1				Duarte Sta	tion SP Up	date		1	
MIG							15 July 20	 19				
C. Dugan							TNM 2.5					
								d with TNN	1 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		Duarte	Station SP	Update								
RUN:				ral: W/O Bueı	naVista							
BARRIER DESIGN:			HEIGHTS					Average p	avement type	shall be use	d unless	
									ghway agenc			
ATMOSPHERICS:		68 deg	F, 50% RH	l					ent type with	•		
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	65.6	6 (65.6	0	Snd Lvl	65.6	0.0		0 0
100 Feet from Centerline	2	2 1	0.0	62.6	6 (62.6	0	Snd Lvl	62.6	0.0		0 0
Dwelling Units		# DUs	Noise Re	duction								
			Min	Avg	Max							
			dB	dB	dB							
All Selected		2	0.0	0.0	0.0	D						
All Impacted		2	0.0	0.0	0.0	`						

0.0

0.0

RESULTS: SOUND LEVELS	<u> </u>						Duarte Stat	tion SP Up	date			
MIG							15 July 20	19				
C. Dugan							TNM 2.5					
							Calculated	with TNN	1 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		Duarte	Station SP	Update								
RUN:		F25PP_	02C_Centi	al: BuenaVi	s to 210WB							
BARRIER DESIGN:		INPUT	HEIGHTS					Average p	pavement type	shall be use	d unless	
								a State hi	ghway agenc	y substantiate	s the use)
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.	
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	68.	6 (68.6	0	Snd Lvl	68.6	0.0		0 0.
100 Feet from Centerline	2	2 1	0.0	65.	0 0	65.0	0	Snd Lvl	65.0	0.0		0 0.
Dwelling Units		# DUs	Noise Re	duction								
-			Min	Avg	Max							
			dB	dB	dB							
All Selected		2	0.0	0.	0.0)						
All Impacted		2	0.0	0.	0.0)						
All that meet NR Goal		2	0.0	0.	0.0)						

RESULTS: SOUND LEVELS			T				Duarte Sta	tion SP Up	odate		1		
MIG							15 July 20	19					
C. Dugan							TNM 2.5						
							Calculated	with TNN	1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		F25PP_	02D_Centr	al: 210WB to	Duncanno)							
BARRIER DESIGN:		INPUT	HEIGHTS					Average p	pavement type	shall be use	d unles	S	
								a State hi	ghway agenc	y substantiate	s the us	se	
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.		
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrier				
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcula	ted
							Sub'l Inc					minus	
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1	1	0.0	65.8	3 0	65.8	0	Snd Lvl	65.8	0.0		0	0.0
100 Feet from Centerline	2	2 1	0.0	62.8	3 0	62.8	0	Snd Lvl	62.8	0.0		0	0.0
Dwelling Units		# DUs	Noise Red	duction									
-			Min	Avg	Max								
			dB	dB	dB								
All Selected		2	0.0	0.0	0.0)							
All Impacted		2	0.0	0.0	0.0)							
All that meet NR Goal		2	0.0	0.0	0.0								

RESULTS: SOUND LEVELS									Duarte Sta	atic	on SP Up	date			<u> </u>	
MIG									15 July 20	 019)					
C. Dugan									TNM 2.5							
									Calculate	d v	with TNM	2.5				
RESULTS: SOUND LEVELS																
PROJECT/CONTRACT:		Duarte	Station SP	Update												
RUN:		F25PP	_02E_Cent	ral: Dunca	anno	n to Hi	ghla	a		Ī						
BARRIER DESIGN:		INPU	T HEIGHTS							Α	verage p	avement type	shall be use	d unles	ss	
													y substantiat			
ATMOSPHERICS:		68 de	g F, 50% RH	ł									approval of F			
Receiver																
Name	No.	#DUs	Existing	No Barri	er							With Barrier				
			Lden	Lden				Increase over	existing	T	уре	Calculated	Noise Reduc	ction		
				Calculat	ed	Crit'n		Calculated	Crit'n	In	npact	Lden	Calculated	Goal	Calcu	ılated
									Sub'l Inc	ĺ					minu	s
										Ť					Goal	
			dBA	dBA		dBA		dB	dB			dBA	dB	dB	dB	
50 Feet from Centerline		1	1 0.0)	67.9		0	67.9	(0	Snd Lvl	67.9	0.0)	0	0.
100 Feet from Centerline		2	1 0.0)	64.9		0	64.9	(0	Snd Lvl	64.9	0.0		0	0.
Dwelling Units		# DUs	Noise Re	duction												
_			Min	Avg		Max										
			dB	dB		dB				Ī						
All Selected			2 0.0)	0.0		0.0									
All Impacted			2 0.0)	0.0		0.0			İ						
All that meet NR Goal			2 0.0)	0.0		0.0									

RESULTS: SOUND LEVELS								Duarte Sta	tion SP Up	odate				
MIG								15 July 20	 19					
C. Dugan								TNM 2.5						
								Calculated	d with TNN	1 2.5				
RESULTS: SOUND LEVELS														
PROJECT/CONTRACT:		Duarte	e Station SF	Update										
RUN:		F25PF	_03A_Duar	te: Mounta	ain to	Buena\	<i>l</i>							
BARRIER DESIGN:		INPU	T HEIGHTS						Average p	pavement typ	shall be use	d unles	ss	
									a State hi	ghway agenc	y substantiat	es the u	se	
ATMOSPHERICS:		68 de	g F, 50% RI	1					of a differ	ent type with	approval of F	HWA.		
Receiver														
Name	No.	#DUs	Existing	No Barrie	er					With Barrier				
			Lden	Lden			Increase over	existing	Туре	Calculated	Noise Reduc	ction		
				Calculate	ed (Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcul	ated
								Sub'l Inc					minus	
													Goal	
			dBA	dBA	(dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline		1	1 0.0) 7	71.2		0 71.2	2 0	Snd Lvl	71.2	2 0.0)	0	0.0
100 Feet from Centerline		2	1 0.0) 6	8.3		0 68.3	3 0	Snd Lvl	68.3	0.0		0	0.0
Dwelling Units		# DUs	S Noise Re	duction										
_			Min	Avg		Max								
			dB	dB		dB								
All Selected			2 0.0)	0.0	0.	0							
All Impacted			2 0.0)	0.0	0.	0							
All that meet NR Goal			2 0.0)	0.0	0.	0							

RESULTS: SOUND LEVELS						Duarte Sta	tion SP Up	odate			
MIG						15 July 20	 19				
C. Dugan						TNM 2.5					
						Calculated	d with TNN	1 2.5			
RESULTS: SOUND LEVELS											
PROJECT/CONTRACT:	Duarte	Station SP	Update								
RUN:	F25PP	_03B_Duart	te: Buena Vi	sta to Cinc	0						
BARRIER DESIGN:	INPUT	HEIGHTS					Average p	pavement type	shall be use	d unless	
							a State hi	ghway agenc	y substantiate	s the use	;
ATMOSPHERICS:	68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.	
Receiver											
Name No.	#DUs	Existing	No Barrier					With Barrier			
		Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion	
			Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
						Sub'l Inc					minus
											Goal
		dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1 1	0.0	72.	1	72.1	0	Snd Lvl	72.1	0.0		0 0
100 Feet from Centerline	2 1	0.0	68.	9	0 68.9	0	Snd Lvl	68.9	0.0		0 0
Dwelling Units	# DUs	Noise Re	duction								
		Min	Avg	Max							
		dB	dB	dB							
All Selected	2	2 0.0	0.	0 0.	0						
All Impacted	2	0.0	0.	0 0.	0						
All that meet NR Goal	2	0.0	0.	0 0.	n						

RESULTS: SOUND LEVELS	İ							Dι	uarte Sta	tion SP U	pdate				
MIG								1	5 July 20	 19					
C. Dugan									NM 2.5						
								С	alculated	d with TNI	M 2.5				
RESULTS: SOUND LEVELS															
PROJECT/CONTRACT:		Duarte	Station SP	Update											
RUN:				te: Cinco Rob	oles to \	/illa									
BARRIER DESIGN:			HEIGHTS							Average	pavement tv	shall be use	d unles	SS	
												cy substantiat			
ATMOSPHERICS:		68 deg	F, 50% RH									approval of F			
Receiver								Г							
Name	No.	#DUs	Existing	No Barrier							With Barrie	r			
			Lden	Lden			Increase over	. е	xisting	Туре	Calculated	Noise Reduc	ction		
				Calculated	Crit'n		Calculated	С	rit'n	Impact	Lden	Calculated	Goal	Calcu	lated
								S	ub'l Inc					minus	;
								İ						Goal	
			dBA	dBA	dBA		dB	dl	В		dBA	dB	dB	dB	
50 Feet from Centerline	1	1 1	0.0	71.5	5	0	71.5	5	0	Snd Lvl	71.	5 0.0)	0	0.0
100 Feet from Centerline	2	2 1	0.0	67.9)	0	67.9)	0	Snd Lvl	67.	9 0.0		0	0.0
Dwelling Units		# DUs	Noise Red	duction											
			Min	Avg	Max										
			dB	dB	dB										
All Selected		2	0.0	0.0)	0.0									
All Impacted		2	0.0	0.0)	0.0									
All that meet NR Goal		2	0.0	0.0)	0.0									

RESULTS: SOUND LEVELS							Duarte Sta	tion SP Up	date			
MIG							15 July 20	19				
C. Dugan							TNM 2.5					
							Calculated	with TNN	1 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		Duarte	Station SP	Update								
RUN:		F25PP_	03D_Duart	te: Village to	Highland							
BARRIER DESIGN:		INPUT	HEIGHTS					Average p	pavement type	shall be use	d unless	
								a State hi	ghway agenc	y substantiate	s the use	;
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.	
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	70.	4 (70.4	0	Snd Lvl	70.4	0.0		0 0.
100 Feet from Centerline	2	2 1	0.0	67.	5 (67.5	0	Snd Lvl	67.5	0.0		0 0.
Dwelling Units		# DUs	Noise Re	duction								
-			Min	Avg	Max							
			dB	dB	dB							
All Selected		2	0.0	0.	0.0)						
All Impacted		2	0.0	0.	0.0)						
All that meet NR Goal		2	0.0	0.0	0.0)						

RESULTS: SOUND LEVELS				·			Duarte Sta	tion SP Up	date			
MIG							15 July 20) 19				
C. Dugan							TNM 2.5					
g								d with TNN	1 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		Duarte	Station SP	Update								
RUN:				nnon: Village	to Highla	n						
BARRIER DESIGN:		INPUT	HEIGHTS					Average	pavement type	shall be use	d unless	
								a State hi	ghway agenc	y substantiat	s the use	
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.	
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier			
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	tion	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	57.4	. (57.4	C	Snd Lvl	57.4	0.0	C	0
100 Feet from Centerline	2	1	0.0	53.8	3	53.8	C	Snd Lvl	53.8	0.0	C	0
Dwelling Units		# DUs	Noise Re	duction								
-			Min	Avg	Max							
			dB	dB	dB							

0.0

0.0

0.0

0.0

0.0

0.0

All Selected

All Impacted

All that meet NR Goal

2

2

0.0

0.0

0.0

RESULTS: SOUND LEVELS			<u> </u>	T				Duarte S	Sta	tion SP Up	odate		1		
MIG								15 July	20	 19					
C. Dugan								TNM 2.	5						
								Calcula	ite	d with TNN	1 2.5				
RESULTS: SOUND LEVELS															
PROJECT/CONTRACT:		Duarte	Station SP	Update											
RUN:		F25PP	_05A_Ever	green: E/O M	ountain										
BARRIER DESIGN:		INPUT	HEIGHTS							Average	pavement typ	e shall be use	d unles	S	
												y substantiat			
ATMOSPHERICS:		68 deg	F, 50% RH									approval of F			
Receiver															
Name	No.	#DUs	Existing	No Barrier							With Barrie	r			
			Lden	Lden			Increase over	existing)	Туре	Calculated	Noise Reduc	tion		
				Calculated	Crit'n		Calculated	Crit'n		Impact	Lden	Calculated	Goal	Calcu	ılated
								Sub'l Ir	ıc					minus	S
														Goal	
			dBA	dBA	dBA		dB	dB			dBA	dB	dB	dB	
50 Feet from Centerline	1	1 1	0.0	71.	1	0	71.1		0	Snd Lvl	71.	1 0.0		0	0.0
100 Feet from Centerline	2	2 1	0.0	68.	2	0	68.2		0	Snd Lvl	68.	2 0.0		0	0.0
Dwelling Units		# DUs	Noise Red	duction											
			Min	Avg	Max										
			dB	dB	dB										
All Selected		2	2 0.0	0.)	0.0									
All Impacted		2	0.0	0.)	0.0									
All that meet NR Goal		2	0.0	0.)	0.0									

RESULTS: SOUND LEVELS								Duarte \$	Sta	tion SP Up	odate				
MIG								15 July	20	 19					
C. Dugan								TNM 2.	5						
								Calcula	tec	d with TNN	1 2.5				
RESULTS: SOUND LEVELS															
PROJECT/CONTRACT:		Duarte	Station SP	Update											
RUN:		F25PP	_05B_Ever	reen: W/O B	uenaVis	ta									
BARRIER DESIGN:		INPUT	HEIGHTS							Average	pavement typ	e shall be use	d unles	ss	
										a State hi	ghway agend	y substantiat	es the ເ	ıse	
ATMOSPHERICS:		68 deg	F, 50% RH							of a differ	ent type with	approval of F	HWA.		
Receiver															
Name	No.	#DUs	Existing	No Barrier							With Barrie	r			
			Lden	Lden			Increase over	existing	j	Туре	Calculated	Noise Reduc	ction	-	
				Calculated	Crit'n		Calculated	Crit'n		Impact	Lden	Calculated	Goal	Calc	ulated
								Sub'l Ir	C					minu	ıs
														Goal	
			dBA	dBA	dBA		dB	dB			dBA	dB	dB	dB	
50 Feet from Centerline	1	1 1	0.0	67.5		0	67.5		0	Snd Lvl	67.5	5 0.0)	0	0.0
100 Feet from Centerline	2	2 1	0.0	64.4		0	64.4		0	Snd Lvl	64.4	4 0.0)	0	0.0
Dwelling Units		# DUs	Noise Red	duction											
			Min	Avg	Max										
			dB	dB	dB										
All Selected		2	0.0	0.0	(0.0									
All Impacted		2	0.0	0.0		0.0									
All that meet NR Goal		2	0.0	0.0		0.0									

RESULTS: SOUND LEVELS				İ				Dι	uarte Sta	tion	SP U	odate				
MIG								1	5 July 20	│)19						
C. Dugan									NM 2.5							
								С	alculated	d wit	h TNN	1 2.5				
RESULTS: SOUND LEVELS																
PROJECT/CONTRACT:		Duarte	Station SP	Update												
RUN:				reen: Dunca	nn to Hi	ghl										
BARRIER DESIGN:			HEIGHTS	,		•				Ave	erage i	pavement tvi	oe shall be use	ed unle	SS	
													cy substantiat			
ATMOSPHERICS:		68 deg	F, 50% RH										n approval of I			
Receiver																
Name	No.	#DUs	Existing	No Barrier								With Barrie	r			
			Lden	Lden			Increase over	е)	xisting	Тур	е	Calculated	Noise Redu	ction		
				Calculated	Crit'n		Calculated	С	rit'n	Imp	act	Lden	Calculated	Goal	Calc	ulated
								S	ub'l Inc						min	us
															Goa	I
			dBA	dBA	dBA		dB	dl	В			dBA	dB	dB	dB	
50 Feet from Centerline	1	1 1	0.0	58.9		0	58.9)	0	Sı	nd Lvl	58.	9 0.0)	0	0.
100 Feet from Centerline	2	2 1	0.0	56.0		0	56.0)	0	Sı	nd Lvl	56.	0.0)	0	0.
Dwelling Units		# DUs	Noise Red	duction												
			Min	Avg	Max											
			dB	dB	dB											
All Selected		2	0.0	0.0	(0.0										
All Impacted		2	0.0	0.0	(0.0										
All that meet NR Goal		2	0.0	0.0		0.0										

RESULTS: SOUND LEVELS			·					Duarte	Sta	tion SP U	odate		1		
MIG								15 Ju	y 20) 19					
C. Dugan								TNM 2	2.5						
								Calcu	late	d with TNN	/ 1 2.5				
RESULTS: SOUND LEVELS															
PROJECT/CONTRACT:		Duarte	Station SP	Update											
RUN:		F25PP	_06A_Highl	and: Hunting	jton to C	ent	tr								
BARRIER DESIGN:		INPUT	HEIGHTS							Average	pavement typ	e shall be use	d unles	s	
												y substantiat			
ATMOSPHERICS:		68 deg	F, 50% RH									approval of F			
Receiver															
Name	No.	#DUs	Existing	No Barrier							With Barrie	r			
			Lden	Lden			Increase over	existi	ng	Туре	Calculated	Noise Reduc	ction		
				Calculated	Crit'n		Calculated	Crit'n		Impact	Lden	Calculated	Goal	Calcu	ulated
								Sub'l	Inc					minu	S
														Goal	
			dBA	dBA	dBA		dB	dB			dBA	dB	dB	dB	
50 Feet from Centerline	1	1 1	0.0	66.	3	0	66.3		0	Snd Lvl	66.3	3 0.0)	0	0.
100 Feet from Centerline	2	2 1	0.0	63.	1	0	63.4		0	Snd Lvl	63.4	4 0.0		0	0.
Dwelling Units		# DUs	Noise Re	duction											
			Min	Avg	Max										
			dB	dB	dB										
All Selected		2	2 0.0	0.)	0.0									
All Impacted		2	0.0	0.)	0.0									
All that meet NR Goal		2	0.0	0.0)	0.0									

RESULTS: SOUND LEVELS							Duarte Sta	ation SP Up	odate				
MIG							15 July 2	 019					
C. Dugan							TNM 2.5						
							Calculate	d with TNN	1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		F25PP_	06B_Highl	land: Central	to Everg	re							
BARRIER DESIGN:		INPUT	HEIGHTS					Average	pavement typ	e shall be use	d unles	ss	
								a State hi	ghway agenc	y substantiat	es the u	ıse	
ATMOSPHERICS:		68 deg	F, 50% RH	ł						approval of F			
Receiver								7					
Name	No.	#DUs	Existing	No Barrier					With Barrier	•			
			Lden	Lden		Increase over	rexisting	Type	Calculated	Noise Reduc	ction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcul	ated
							Sub'l Inc					minus	
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1	1	0.0	69.9		0 69.9	9 (Snd Lvl	69.9	0.0)	0	0.0
100 Feet from Centerline	2	2 1	0.0	66.3		0 66.3	3 (Snd Lvl	66.3	3 0.0)	0	0.0
Dwelling Units		# DUs	Noise Re	duction									
			Min	Avg	Max								
			dB	dB	dB								
All Selected		2	0.0	0.0) (0.0							
All Impacted		2	0.0	0.0	(0.0							
All that meet NR Goal		2	0.0	0.0	(0.0							

RESULTS: SOUND LEVELS							Duarte Sta	ation SP Up	odate		1		
MIG							15 July 20	 019					
C. Dugan							TNM 2.5						
							Calculate	d with TNN	1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		F25PP_	_06C_Highl	and: Evergre	en to BsC	tr							
BARRIER DESIGN:		INPUT	HEIGHTS					Average p	pavement typ	e shall be use	d unless	•	
								a State hi	ghway agenc	y substantiat	es the us	е	
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of I	HWA.		
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrier	,			
			Lden	Lden		Increase over	existing	Type Calculated Noise Reduc			ction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated	
							Sub'l Inc					minus	
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
50 Feet from Centerline	1	1 1	0.0	69.4	(69.4	. (Snd Lvl	69.4	0.0)	0 (
100 Feet from Centerline	2	2 1	0.0	65.6	6 (65.6	C	Snd Lvl	65.6	0.0)	0 (
Dwelling Units		# DUs	Noise Re	duction									
			Min	Avg	Max								
			dB	dB	dB								
All Selected		2	0.0	0.0	0.0)							

0.0

0.0

0.0

All Impacted

All that meet NR Goal

2 2

0.0

0.0

RESULTS: SOUND LEVELS	İ			T			Duarte Sta	ation SP Up	odate			Ţ
MIG							15 July 20	│ 019				
C. Dugan							TNM 2.5					
							Calculate	d with TNN	1 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		Duarte	Station SP	Update								
RUN:		F25PP_	_06D_Highl	and: Bus Ctr	to Duarte							
BARRIER DESIGN:		INPUT	HEIGHTS					Average p	pavement typ	e shall be use	d unless	
								a State hi	ghway agenc	y substantiat	es the us	е
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of I	HWA.	
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier			
			Lden	Lden		Increase over	r existing	Type Calculated		Noise Redu	ction	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	,	1 1	0.0	69.7	(69.7	′ (Snd Lvl	69.7	0.0)	0 0
100 Feet from Centerline	2	2 1	0.0	66.5	5 (66.5	6 (Snd Lvl	66.5	0.0)	0 0
Dwelling Units		# DUs	Noise Re	duction								
			Min	Avg	Max							
_			dB	dB	dB							
All Selected		2	0.0	0.0	0.0)						

0.0

0.0

0.0

2 2

0.0

0.0

All Impacted

RESULTS: SOUND LEVELS				T			Duarte Sta	ation SP Up	odate			
MIG							15 July 20) 019				
C. Dugan							TNM 2.5					
							Calculate	d with TNN	1 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		Duarte	Station SP	Update								
RUN:		F25PP	_07A_Hunti	ington: BVist	a to Highla	ın						
BARRIER DESIGN:		INPUT	HEIGHTS					Average p	pavement typ	e shall be use	d unless	•
								a State hi	ghway agend	y substantiat	es the us	e
ATMOSPHERICS:		68 deg	F, 50% RH					of a differ	ent type with	approval of F	HWA.	
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier	,		
			Lden	Lden		Increase over	existing	Туре	Calculated	Noise Reduc	ction	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1 1	0.0	73.9) (73.9) (Snd Lvl	73.9	0.0)	0 0.
100 Feet from Centerline	2	2 1	0.0	71.0) (71.0) (Snd Lvl	71.0	0.0)	0 0.
Dwelling Units		# DUs	Noise Re	duction								
			Min	Avg	Max							
			dB	dB	dB							
All Selected		2	2 0.0	0.0	0.0							

0.0

0.0

0.0

0.0

2 2

All Impacted

All that meet NR Goal

0.0

0.0

RESULTS: SOUND LEVELS		-					Duarte Sta	tion SP Up	odate			
MIG							15 July 20	19				
C. Dugan							TNM 2.5					
							Calculate	d with TNN	1 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		Duarte	Station SP	Update								
RUN:		F25PP_	_07B_Hunt	ington:High	land to MtO	liv						
BARRIER DESIGN:		INPUT	HEIGHTS					Average p	pavement type	shall be use	d unless	
								a State hi	ghway agenc	y substantiat	es the use	
ATMOSPHERICS:		68 deg	F, 50% RH	ĺ				of a differ	ent type with	approval of F	HWA.	
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier			
			Lden	Lden		Increase over	existing	Type	Calculated	Noise Reduc		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	74	.7 (74.7	0	Snd Lvl	74.7	0.0		0.
100 Feet from Centerline	2	1	0.0	71	.8 (71.8	0	Snd Lvl	71.8	0.0)	0.
Dwelling Units		# DUs	Noise Re	duction								
			Min	Avg	Max							
			dB	dB	dB							

0.0

0.0

0.0

0.0

0.0

2 2 2

0.0

0.0

0.0

All Selected

All Impacted

RESULTS: SOUND LEVELS							Duarte Sta	ition SP Up	odate			
MIG							15 July 20)19				
C. Dugan							TNM 2.5					
							Calculate	d with TNN	1 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		Duarte	Station SP	Update								
RUN:		F25PP_	_08A_Moui	ntain: Central	to Evergr	e						
BARRIER DESIGN:		INPUT	HEIGHTS					Average	pavement typ	e shall be use	ed unless	
								a State hi	ghway agenc	y substantiat	es the use	
ATMOSPHERICS:		68 deg	F, 50% RH	1				of a differ	ent type with	approval of F	HWA.	
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier			
			Lden	Lden		Increase over	existing	Туре	Calculated Noise Reduction		ction	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculate
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
50 Feet from Centerline	1	1	0.0	70.6	3	0 70.6	6 0	Snd Lvl	70.6	0.0) (0
100 Feet from Centerline	2	1	0.0	66.7	7	0 66.7	' C	Snd Lvl	66.7	0.0)	0
Dwelling Units		# DUs	Noise Re	duction								
			Min	Avg	Max							
			dB	dB	dB							

0.0

0.0

0.0

0.0

0.0

2 2

0.0

0.0

0.0

All Selected

All Impacted

All Selected		2	0.0	0.0	0.0								
			dB	dB	dB								
3		1	Min	Avg	Max								
Dwelling Units		# DUs	Noise Re	duction									
100 Feet from Centerline	2	2 1	0.0	66.8	3 (66.8	C	Snd Lvl	66.8	0.0)	0	
50 Feet from Centerline	1	1 1	0.0	69.9) (69.9	C	Snd Lvl	69.9	0.0)	0	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
												Goal	
							Sub'l Inc	<u> </u>				minus	
				Calculated	Crit'n	1	Crit'n	Impact	Lden	Calculated	Goal	Calculate	
Name	1		Lden	Lden		Increase over	r existing	Туре	Calculated	Noise Redu	ction		
Name	No.	#DUs	Existing	No Barrier					With Barrier	,			
Receiver								-		† · ·			
ATMOSPHERICS:		68 deg	F, 50% RH	 						approval of F			
BARRIER DESIGN.		INPUT	пеівпіз							e shall be use y substantiat			
RUN: BARRIER DESIGN:			_U8B_MOUR HEIGHTS	ntain: Evergre	en to Dua	ſ		Averes	and the	s shall be use	d unlood		
PROJECT/CONTRACT:			Station SP	-		_							
RESULTS: SOUND LEVELS													
							Calculate	d with TNN	1 2.5				
C. Dugan							TNM 2.5						
MIG							15 July 20	19					
RESULTS: SOUND LEVELS					Duarte Station SP Update								

0.0

0.0

0.0

2 2

0.0

0.0

All Impacted

			dB	dB	dB								
Dwelling Units		# DUs	Noise Red	duction Avg	Max								
390 Feet from Centerline	2		0.0		7 6	6 74.7	10	Snd Lvl	74.7	0.0		8	-8.0
185 Feet from Centerline	1	1	0.0						71.6			8	-8.0
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
												Goal	
							Sub'l Inc					minus	
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcula	ated
			Lden	Lden		Increase over	existing	Type Calculated		Noise Reduc	oise Reduction		
Name	No.	#DUs	Existing	No Barrier					With Barrier				
Receiver									1		<u> </u>		
ATMOSPHERICS:		68 deg	F, 50% RH						ent type with	=		'	
DARRIER DEGIGN.		INFUI	ILIGHIS						ghway agenc			1	
RUN: BARRIER DESIGN:		_	_U9A_IZ1U: HEIGHTS	Adjacent No	barrier			Avorago	pavement type	o shall bo usa	d unloss		
PROJECT/CONTRACT:			Station SP	-	Dawies								
RESULTS: SOUND LEVELS			04 41 00										
							Calculate	d with TNN	1 2.5				
C. Dugan							TNM 2.5						
MIG							17 July 20	19					
RESULTS: SOUND LEVELS							Duarte Sta	tion SP Up	date				

0.0

0.0

0.0

0.0

0.0

2 0

0.0

0.0

0.0

All Selected

All Impacted

RESULTS: SOUND LEVELS							Duarte Sta	tion SP Up	odate				
MIG							17 July 20) 19					
C. Dugan							TNM 2.5						
							Calculate	d with TNN	1 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Duarte	Station SP	Update									
RUN:		F25PP_	_09B_I210:	Adjacent Wit	h Barrier								
BARRIER DESIGN:		INPUT	HEIGHTS					Average	pavement typ	shall be use	d unles	S	
								a State hi	ghway agenc	y substantiat	es the us	se	
ATMOSPHERICS:		68 deg	F, 50% RH	1				of a differ	ent type with	approval of F	HWA.		
Receiver													
Name	No.	#DUs	Existing	No Barrier					With Barrier				
			Lden	Lden		Increase over	existing	Type Calculated Noise Reduction					
				Calculated	Crit'n	Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calcul	lated
							Sub'l Inc					minus	5
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
185 Feet from Centerline	1	1 1	0.0	67.3	66	67.3	10	Snd Lvl	67.3	0.0)	8	-8.0
390 Feet from Centerline	2	2 1	0.0	65.1	66	65.1	10		65.1	0.0)	8	-8.0
Dwelling Units		# DUs	Noise Re	duction									
			Min	Avg	Max								
			dB	dB	dB								

0.0

0.0

0.0

0.0

0.0

All Impacted