

**APPENDIX E**  
*Noise Model Outputs*



# Field Noise Measurement Data Sheets



**Field Noise Measurement Data**

Record: 334

Project Name	Santa Monica
Project #	9127
Observer(s)	Connor Burke
Date	2017-03-15
autoemail	cburke@dudek.com

**Meteorological Conditions**

Temp (F)	68
Humidity % (R.H.)	56
Wind	Calm
Wind Speed (MPH)	2
Wind Direction	East
Sky	Sunny

**Instrument and Calibrator Information**

Instrument Name List	(ENC) Rion NL-52
Instrument Name	(ENC) Rion NL-52
Instrument Name Lookup Key	(ENC) Rion NL-52
Manufacturer	Rion
Model	NL-52
Serial Number	553896
Calibrator Name	(ENC) LD CAL150
Calibrator Name	(ENC) LD CAL150
Calibrator Name Lookup Key	(ENC) LD CAL150
Calibrator Manufacturer	Larson Davis
Calibrator Model	LD CAL150
Calibrator Serial #	5152
Pre-Test (dBA SPL)	94
Post-Test (dBA SPL)	94
Windscreen	Yes
Weighting?	A-WTD
Slow/Fast?	Slow
ANSI?	Yes

**Recordings**

Record #	1
Site ID	ST3
Site Location	Latitude:34.091466, Longitude:-118.360471, Altitude:86.092285, Speed:0.000000, Horizontal Accuracy:10.000000, Vertical Accuracy:6.000000, Time:8:22:14 AM PDT
Begin (Time)	08:21:00
End (Time)	08:31:00
Leq	60.4
Lmax	74.6
Lmin	53.8
Other Lx?	L90, L50, L10
L90	55
L50	57.9
L10	63.9
Other (Specify Metric)	

Primary Noise Source	Traffic
Other Noise Sources (Background)	Distant Conversations / Yelling, Distant Traffic
Is the same instrument and calibrator being used as previously notated?	Yes
Are the meteorological conditions the same as previously notated?	Yes

Source Info and Traffic Counts	
Distance to Roadway (feet)	10
Distance to Roadway - Centerline/Edge of Pavement	Edge of Pavement
Estimated Vehicle Speed (MPH)	25
Count Duration (Min)	10

Traffic Counts	
Counting Both Directions?	Yes
Autos	1
Number of Vehicles - Autos	15

**Description / Photos**

**Site Photos**

Photo	Comments / Description
	Facing west

Recordings	
Record #	2
Site ID	ST4
Site Location	Latitude:34.091789, Longitude:-118.360282, Altitude:98.270142, Speed:0.000000, Horizontal Accuracy:10.000000, Vertical Accuracy:6.000000, Time:8:33:22 AM PDT
Begin (Time)	08:33:00
End (Time)	08:43:00
Leq	60.1
Lmax	69.6
Lmin	54.3
Other Lx?	L90, L50, L10
L90	55.1
L50	56.2
L10	64.3
Other (Specify Metric)	
Primary Noise Source	Traffic
Other Noise Sources (Background)	Distant Conversations / Yelling
Other Noise Sources Additional Description	Fountain at school. Truck docking.
Is the same instrument and calibrator being used as previously notated?	Yes
Are the meteorological conditions the same as previously notated?	Yes

Source Info and Traffic Counts	
Distance to Roadway (feet)	10
Estimated Vehicle Speed (MPH)	25
Count Duration (Min)	10

Traffic Counts	
Counting Both Directions?	Yes
Autos	1
Number of Vehicles - Autos	18
Medium Trucks	1
Number of Vehicles - Medium Trucks	1

Description / Photos	

Site Photos	

Photo



Comments / Description

Facing west.

Recordings

<b>Record #</b>	3
<b>Site ID</b>	ST1
<b>Site Location</b>	Latitude:34.090904, Longitude:-118.359638, Altitude:81.887207, Speed:0.000000, Horizontal Accuracy:10.000000, Vertical Accuracy:3.000000, Time:8:47:02 AM PDT
<b>Begin (Time)</b>	08:47:00
<b>End (Time)</b>	08:57:00
<b>Leq</b>	67
<b>Lmax</b>	82.2
<b>Lmin</b>	55.1
<b>Other Lx?</b>	L90, L50, L10
<b>L90</b>	58.3
<b>L50</b>	64
<b>L10</b>	70.1
<b>Primary Noise Source</b>	Traffic
<b>Other Noise Sources (Background)</b>	Distant Conversations / Yelling, Distant Traffic
<b>Is the same instrument and calibrator being used as previously notated?</b>	Yes
<b>Are the meteorological conditions the same as previously notated?</b>	Yes



Source Info and Traffic Counts


Distance to Roadway (feet)	10
Estimated Vehicle Speed (MPH)	35
Count Duration (Min)	10

Traffic Counts

Counting Both Directions?	Yes
Autos	1
Number of Vehicles - Autos	281
Medium Trucks	1
Number of Vehicles - Medium Trucks	10
Heavy Trucks	1
Number of Vehicles - Heavy Trucks	4
Buses	1
Number of Vehicles - Buses	5

Description / Photos

Site Photos

Photo	Comments / Description
	<p>Facing south</p>

Recordings	
Record #	4
Site ID	ST2
Site Location	Latitude:34.091443, Longitude:-118.359298, Altitude:93.200253, Speed:0.000000, Horizontal Accuracy:10.000000, Vertical Accuracy:4.000000, Time:9:00:42 AM PDT
Begin (Time)	09:00:00
End (Time)	09:10:00
Leq	57.9
Lmax	75.1
Lmin	48.3
Other Lx?	L90, L50, L10
L90	50.1
L50	53.9
L10	60.7
Other (Specify Metric)	
Primary Noise Source	Traffic
Other Noise Sources (Background)	Birds, Distant Traffic
Is the same instrument and calibrator being used as previously notated?	Yes
Are the meteorological conditions the same as previously notated?	Yes

Source Info and Traffic Counts	
Distance to Roadway (feet)	10
Estimated Vehicle Speed (MPH)	25
Count Duration (Min)	10

Traffic Counts	
Counting Both Directions?	Yes
Autos	1
Number of Vehicles - Autos	24
Medium Trucks	1
Number of Vehicles - Medium Trucks	1

Description / Photos

Site Photos

Photo



Comments / Description

Facing east.

Recordings


<b>Record #</b>	5
<b>Site ID</b>	ST5
<b>Site Location</b>	Latitude:34.091534, Longitude:-118.359256, Altitude:95.281673, Speed:0.000000, Horizontal Accuracy:10.000000, Vertical Accuracy:4.000000, Time:9:12:40 AM PDT
<b>Begin (Time)</b>	09:12:00
<b>End (Time)</b>	09:22:00
<b>Leq</b>	54.3
<b>Lmax</b>	68
<b>Lmin</b>	44.8
<b>Other Lx?</b>	L90, L50, L10
<b>L90</b>	47.9
<b>L50</b>	50.2
<b>L10</b>	57
<b>Other (Specify Metric)</b>	
<b>Primary Noise Source</b>	Traffic
<b>Other Noise Sources (Background)</b>	Birds, Distant Traffic
<b>Other Noise Sources Additional Description</b>	Back up alarm on truck.
<b>Is the same instrument and calibrator being used as previously notated?</b>	Yes
<b>Are the meteorological conditions the same as previously notated?</b>	Yes

Source Info and Traffic Counts	
Distance to Roadway (feet)	20
Distance to Roadway - Centerline/Edge of Pavement	Edge of Pavement
Estimated Vehicle Speed (MPH)	25
Count Duration (Min)	10

Traffic Counts	
Counting Both Directions?	Yes
Autos	1
Number of Vehicles - Autos	18
Medium Trucks	1
Number of Vehicles - Medium Trucks	2

Description / Photos

Site Photos

Photo	Comments / Description
	Facing east.

Recordings	
Record #	6
Site ID	ST6
Site Location	Latitude:34.091480, Longitude:-118.358962, Altitude:91.988827, Speed:0.000000, Horizontal Accuracy:10.000000, Vertical Accuracy:4.000000, Time:9:24:11 AM PDT
Begin (Time)	09:24:00
End (Time)	09:34:00
Leq	57
Lmax	73.8
Lmin	45.3
Other Lx?	L90, L50, L10
L90	46.7
L50	52.9
L10	60.4
Other (Specify Metric)	
Primary Noise Source	Traffic
Other Noise Sources (Background)	Birds, Rustling Leaves
Is the same instrument and calibrator being used as previously notated?	Yes
Are the meteorological conditions the same as previously notated?	Yes

Source Info and Traffic Counts	
Distance to Roadway (feet)	8
Estimated Vehicle Speed (MPH)	25
Count Duration (Min)	10

Traffic Counts	
Counting Both Directions?	Yes
Autos	1
Number of Vehicles - Autos	18
Buses	0
Motorcycles	1
Number of Vehicles - Motorcycles	1

## Description / Photos

## Site Photos

Photo



Comments / Description

*Facing west.*

# Construction Noise Model Input / Output





Roadway Construction Noise Model (RCNM),Version 1.1

Report date 2/9/2018

Case Descr Santa Monica\_Demolition

---- Receptor #1 ----

Baselines (dBA)

Description Land Use	Daytime	Evening	Night
Acoustical Residential	65	60	55

Equipment

Description	Impact Device	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Excavator	No	40		80.7	50	0
Excavator	No	40		80.7	50	0
Front End Loader	No	40		79.1	50	0
Front End Loader	No	40		79.1	50	0
Front End Loader	No	40		79.1	50	0

Results

Equipment	Calculated (dBA)			Noise Limits (dBA)			
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq	Night Lmax
Excavator	80.7	76.7	N/A	N/A	N/A	N/A	N/A
Excavator	80.7	76.7	N/A	N/A	N/A	N/A	N/A
Front End Loader	79.1	75.1	N/A	N/A	N/A	N/A	N/A
Front End Loader	79.1	75.1	N/A	N/A	N/A	N/A	N/A
Front End Loader	79.1	75.1	N/A	N/A	N/A	N/A	N/A
Total	80.7	82.8	N/A	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 2/9/2018  
 Case Description: Santa Monica\_Site Preparation

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Acoustical Center 50'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	50	0

Equipment	Results							
	Calculated (dBA)				Noise Limits (dBA)			
	Day		Evening		Night			
	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
Front End Loader	79.1	75.1	N/A	N/A	N/A	N/A	N/A	N/A
Total	79.1	75.1	N/A	N/A	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 2/9/2018  
 Case Description: Santa Monica\_Grading

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Acoustical Center 50'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
			Man Lift	No	20	74.7
Man Lift	No	20	74.7	50	0	
Excavator	No	40	80.7	50	0	
Dozer	No	40	81.7	50	0	
Dozer	No	40	81.7	50	0	
Drill Rig Truck	No	20	79.1	50	0	

Equipment	Results							
	Calculated (dBA)				Noise Limits (dBA)			
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq	Night Lmax	
Man Lift	74.7	67.7	N/A	N/A	N/A	N/A	N/A	
Man Lift	74.7	67.7	N/A	N/A	N/A	N/A	N/A	
Excavator	80.7	76.7	N/A	N/A	N/A	N/A	N/A	
Dozer	81.7	77.7	N/A	N/A	N/A	N/A	N/A	
Dozer	81.7	77.7	N/A	N/A	N/A	N/A	N/A	
Drill Rig Truck	79.1	72.2	N/A	N/A	N/A	N/A	N/A	
Total	81.7	82.9	N/A	N/A	N/A	N/A	N/A	

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 2/9/2018  
 Case Description: Santa Monica\_Building Construction

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Acoustical Center 50'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Pump Truck	No	20		81.4	50	0
Concrete Pump Truck	No	20		81.4	50	0
Concrete Pump Truck	No	20		81.4	50	0
Crane	No	16		80.6	50	0
Crane	No	16		80.6	50	0
Man Lift	No	20		74.7	50	0
Man Lift	No	20		74.7	50	0
Man Lift	No	20		74.7	50	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)				
	*Lmax	Leq	Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax
Concrete Pump Truck	81.4	74.4	N/A	N/A	N/A	N/A	N/A
Concrete Pump Truck	81.4	74.4	N/A	N/A	N/A	N/A	N/A
Concrete Pump Truck	81.4	74.4	N/A	N/A	N/A	N/A	N/A
Crane	80.6	72.6	N/A	N/A	N/A	N/A	N/A
Crane	80.6	72.6	N/A	N/A	N/A	N/A	N/A
Man Lift	74.7	67.7	N/A	N/A	N/A	N/A	N/A
Man Lift	74.7	67.7	N/A	N/A	N/A	N/A	N/A
Man Lift	74.7	67.7	N/A	N/A	N/A	N/A	N/A
Total	81.4	81.4	N/A	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 2/9/2018  
 Case Description: Santa Monica\_Paving

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Acoustical Center 50'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	50	0
All Other Equipment > 5 HP	No	50	85		50	0

Equipment	Results							
	Calculated (dBA)				Noise Limits (dBA)			
	*Lmax	Leq	Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq
Excavator	80.7	76.7	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	85	82	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total</b>	<b>85</b>	<b>83.1</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

\*Calculated Lmax is the Loudest value.

## SHIELDING ATTENUATION CALCULATIONS: RAY-TRACE PROGRAM (FOR A POINT-SOURCE)

Uses the Equation:  $(A_{e4})_{point} = 20 \cdot \log[(2 \cdot \pi \cdot N)^{1/2} / \tanh(2 \cdot \pi \cdot N)^{1/2}] + 5 \text{dB}$

(Ref. Pg.174, Noise and Vibration Control, L.L. Beranek Editor, 1971 Ed.)

**Project:** Bond Project West Hollywood  
**Date:** 27-Mar-19  
**By:** MG

Please Enter: Using English (E) units

E
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Ray Trace Number/D escription	Source- Receiver Distance (ft. or m)	Source Base Elev. (ft. or m)	Source Height above Ground (ft. or m)	Receiver Base Elev. (ft. or m)	Receiver Height above Ground (ft. or m)	Horizontal Barrier Dist. (in ref. to source) (ft. or m)	Barrier Base Elev. (ft. or m)	Barrier Height (ft. or m)	Dominant Freq.(Hz)	Source- Rcvr Straight- Line Dist. (ft. or m)	Source- Top-of- Barrier Dist. (ft. or m)	Receiver- Top-of- Barrier Dist. (ft. or m)	Lambda	N <sub>max</sub>	AE <sub>(barriers)</sub> (dB)
Constructio n Noise - Neares Revrs	50.0	295.0	8.0	295.0	5.0	40.0	295.0	15.0	500.0	50.1	40.6	14.1	2.3	4.1	19.1

Roadway Construction Noise Model (RCNM), Version 1.1

Report date 3/28/2019

Case Descr Santa Monica\_Demolition with Mitigation

---- Receptor #1 ----

Description Land Use	Baselines (dBA)		
	Daytime	Evening	Night
Acoustical Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	50	18
Excavator	No	40		80.7	50	18
Front End Loader	No	40		79.1	50	18
Front End Loader	No	40		79.1	50	18

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)			
	*Lmax	Leq	Day		Evening	
			Lmax	Leq	Lmax	Leq
Excavator	62.7	58.7	N/A	N/A	N/A	N/A
Excavator	62.7	58.7	N/A	N/A	N/A	N/A
Front End Loader	61.1	57.1	N/A	N/A	N/A	N/A
Front End Loader	61.1	57.1	N/A	N/A	N/A	N/A
Total	62.7	64	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date 3/28/2019

Case Descr Santa Monica\_Site Preparation with Mitigation

---- Receptor #1 ----

Description Land Use	Baselines (dBA)		
	Daytime	Evening	Night
Acoustical Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	50	19

Equipment	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq
Front End Loader	60.1	56.1	N/A	N/A	N/A	N/A
Total	60.1	56.1	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.



Roadway Construction Noise Model (RCNM), Version 1.1

Report date 3/27/2019

Case Descr Santa Monica\_Grading with Mitigation

---- Receptor #1 ----

Description Land Use	Baselines (dBA)		
	Daytime	Evening	Night
Acoustical Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	
Man Lift	No	20		74.7	50	18
Man Lift	No	20		74.7	50	18
Excavator	No	40		80.7	50	18
Dozer	No	40		81.7	50	18
Drill Rig Truck	No	20		79.1	50	18

Results

Equipment	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day	Leq	Evening	
			Lmax		Lmax	Leq
Man Lift	56.7	49.7	N/A	N/A	N/A	N/A
Man Lift	56.7	49.7	N/A	N/A	N/A	N/A
Excavator	62.7	58.7	N/A	N/A	N/A	N/A
Dozer	63.7	59.7	N/A	N/A	N/A	N/A
Drill Rig Truck	61.1	54.2	N/A	N/A	N/A	N/A
Total	63.7	63.3	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date 3/28/2019

Case Descr Santa Monica\_Building Construction with Mitigation

---- Receptor #1 ----

Description Land Use	Baselines (dBA)		
	Daytime	Evening	Night
Acoustical Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	
Concrete Pump Truck	No	20		81.4	50	19
Concrete Pump Truck	No	20		81.4	50	19
Concrete Pump Truck	No	20		81.4	50	19
Crane	No	16		80.6	50	19
Crane	No	16		80.6	50	19
Man Lift	No	20		74.7	50	19
Man Lift	No	20		74.7	50	19
Man Lift	No	20		74.7	50	19

Results

Equipment	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day	Leq	Evening	
			Lmax		Lmax	Leq
Concrete Pump Truck	62.4	55.4	N/A	N/A	N/A	N/A
Concrete Pump Truck	62.4	55.4	N/A	N/A	N/A	N/A
Concrete Pump Truck	62.4	55.4	N/A	N/A	N/A	N/A
Crane	61.6	53.6	N/A	N/A	N/A	N/A
Crane	61.6	53.6	N/A	N/A	N/A	N/A
Man Lift	55.7	48.7	N/A	N/A	N/A	N/A
Man Lift	55.7	48.7	N/A	N/A	N/A	N/A
Man Lift	55.7	48.7	N/A	N/A	N/A	N/A
Total	62.4	62.4	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date 3/28/2019

Case Descr Santa Monica\_Paving with Mitigation

---- Receptor #1 ----

Description Land Use	Baselines (dBA)		
	Daytime	Evening	Night
Acoustical Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Excavator	No	40		80.7	50	19
All Other Equipment > 5 HP	No	50	85		50	19

Results

Equipment	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq
Excavator	61.7	57.7	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	66	63	N/A	N/A	N/A	N/A
Total	66	64.1	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.



# Exterior Noise Calculations



Salter Source  
Truck Back up Alarm  
distance dBA

30	79
60	73
90	70 ***used
120	67
160	65
200	63
240	61

Other Source, same as Rohnert Park  
heavy duty truck approx level  
distance dBA

50	75
100	69
200	63

Structural Shielding (5-Story Bldg)  
-27

42

ground level

people talking  
65 3 ft 1 person  
assume 50% of 28 people talking  
14 additional people

**Half hour  
of loading  
dock 39**  
Existing  
ambient 54  
**Total 54.1**

65 3162278  
65 3162278 76.5  
65 3162278  
65 3162278  
65 3162278  
65 3162278  
65 3162278  
65 3162278  
65 3162278  
65 3162278  
65 3162278  
65 3162278  
65 3162278  
65 3162278  
65 3162278  
65 3162278

44271887  
actual SPL 76.46128 at 3ftt

level 4

pool deck

+ barrier  
about 50 feet up  
about 25 feet from property line  
roof top equipment

76.4	3
70.4	6
64.4	12
58.4	24
52.4	48
46.4	96
40.4	192

74.0	3
68.0	6
62.0	12
56.0	24
50.0	48
45 barrier add	

75	3
69	6
63	12
57	24
51	48
48	72
43 barrier	

65	50
62 extra distance	
-5 barrier	
-5 structural	
52	



**SHIELDING ATTENUATION CALCULATIONS: RAY-TRACE PROGRAM (FOR A POINT-SOURCE)**

Uses the Equation:  $(A_{s,d})_{\text{barrier}} = 20 \log(2^{\pi^2 N})^{1/2} / (\tanh(2^{\pi^2 N})^{1/2}) + 5 \text{dB}$

(Ref. Pg.174, Noise and Vibration Control, L.L. Beranek Editor, 1971 Ed.)

Project: **Bond Project West Hollywood**  
 Date: **12-Mar-19**  
 By: **MG**

Please Enter: Using English (E) units

E

Ray Trace Number/Description	Source-Receiver Distance (ft. or m)	Source Base Elev. (ft. or m)	Source Height above Ground (ft. or m)	Receiver Base Elev. (ft. or m)	Receiver Height above Ground (ft. or m)	Horizontal Barrier Dist. (in ref. to source) (ft. or m)	Barrier Base Elev. (ft. or m)	Barrier Height (ft. or m)	Dominant Freq.(Hz)	Source-Rev. Straight-Line Dist. (ft. or m)	Source-Top-of-Barrier Dist. (ft. or m)	Receiver-Top-of-Barrier Dist. (ft. or m)	Lambda	N <sub>max</sub>	AE (barriers) (dB)
Loading Dock - Resi to N & NE	100.0	295.0	8.0	295.0	5.0	50.0	295.0	50.0	500.0	100.0	65.3	67.3	2.3	28.8	27.6



# Traffic Noise Model Input / Output



INPUT: ROADWAYS

9127

Dudek MG				5 August 2019 TNM 2.5							
INPUT: ROADWAYS							Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA				
PROJECT/CONTRACT: 9127											
RUN: SM Blvd/O.Grove We Ho Exist 2019											
Roadway Name	Width	Points Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
N Fairfax Ave s of Santa Monica Blvd	60.0	point1	1	1,196.5	55.6	100.00				Average	
		point2	2	1,196.5	547.7	100.00					
N Fairfax Ave n of Santa Monica Blvd	60.0	point3	3	1,195.7	613.6	100.00				Average	
		point4	4	1,162.7	1,852.9	100.00				Average	
		point5	5	1,160.1	1,979.6	100.00					
Santa Monica Blvd w. of N. Fairfax	55.0	point6	6	2.1	561.0	100.00				Average	
		point7	7	291.4	563.0	100.00				Average	
		point8	8	737.0	573.4	100.00				Average	
		point9	9	1,197.4	586.5	100.00					
N Orange Grove Ave s of St Mnca Blvd	38.0	point15	15	1,482.2	93.3	100.00				Average	
		point16	16	1,475.6	561.3	100.00					
N Orange Grove Ave n of St Mnca Blvd	38.0	point17	17	1,550.0	600.7	100.00				Average	
		point18	18	1,539.1	1,842.9	100.00					
N Ogden Ave s of Sta Mnca Blvd	38.0	point19	19	1,801.5	89.0	100.00				Average	
		point20	20	1,797.1	554.8	100.00					
N Ogden Ave n of Sta Mnca Blvd	34.0	point21	21	1,921.8	589.8	100.00				Average	
		point22	22	1,919.6	1,814.4	100.00					
N Genessee Ave s of St Mnca Blvd	38.0	point23	23	2,118.6	89.0	100.00				Average	
		point24	24	2,123.0	548.2	100.00					
N Genessee Ave n of St Mnca Blvd	34.0	point25	25	2,249.8	581.0	100.00				Average	
		point26	26	2,247.6	1,838.5	100.00					
Santa Monica Blvd Fairfax to OrngeGrv	55.0	point29	29	1,197.4	586.5	100.00				Average	
		point10	10	1,559.3	577.7	100.00					
Santa Monica Blvd OrngeGrv to Ogdon	55.0	point30	30	1,559.3	577.7	100.00				Average	
		point11	11	1,918.6	567.3	100.00					

**INPUT: ROADWAYS****9127**

Santa Monica Blvd Ogdon to Genesee	55.0	point31	31	1,918.6	567.3	100.00				Average	
		point12	12	2,250.1	565.6	100.00					
Santa Monica Blvd e of N Genesee Ave	55.0	point32	32	2,250.1	565.6	100.00				Average	
		point13	13	2,668.4	560.5	100.00				Average	
		point14	14	3,190.6	553.6	100.00					

Dudek					5 August 2019															
MG					TNM 2.5															
INPUT: BARRIERS																				
PROJECT/CONTRACT: 9127																				
RUN: SM Blvd/O.Grove We Ho Exist 2019																				

Barrier									Points											
Name	Type	Height		If Wall	If Berm	Run:Rise		Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment			Important		
		Min	Max	\$ per Unit Area	\$ per Unit Vol.	Top Width	ft:ft	\$ per Unit Length			X	Y	Z	at Point	Seg Ht	Perturbs	On	Struct?	Reflec-tions?	
		ft	ft	\$/sq ft	\$/cu yd	ft	ft:ft	\$/ft			ft	ft	ft	ft	ft					
Barrier1	W	0.00	99.99	0.00				0.00	point1	1	1,579.2	860.8	100.00	20.00	0.00	0	0			
									point2	2	1,680.4	860.8	100.00	20.00	0.00	0	0			
									point3	3	1,680.4	873.2	100.00	20.00	0.00	0	0			
									point4	4	1,714.2	873.2	100.00	20.00	0.00	0	0			
									point5	5	1,714.2	898.0	100.00	20.00	0.00	0	0			
									point6	6	1,655.6	898.0	100.00	20.00	0.00	0	0			
									point7	7	1,655.6	900.1	100.00	20.00	0.00	0	0			
									point8	8	1,599.2	900.1	100.00	20.00	0.00	0	0			
									point9	9	1,599.2	877.3	100.00	20.00	0.00	0	0			
									point10	10	1,579.2	877.3	100.00	20.00						
Barrier2	W	0.00	99.99	0.00				0.00	point11	11	1,731.4	863.2	100.00	20.00	0.00	0	0			
									point12	12	1,865.1	861.5	100.00	20.00	0.00	0	0			
									point13	13	1,865.7	907.7	100.00	20.00	0.00	0	0			
									point14	14	1,732.0	909.4	100.00	20.00						
Barrier3	W	0.00	99.99	0.00				0.00	point15	15	1,732.1	915.9	100.00	20.00	0.00	0	0			
									point16	16	1,867.8	915.2	100.00	20.00	0.00	0	0			
									point17	17	1,868.0	960.0	100.00	20.00	0.00	0	0			
									point18	18	1,732.3	960.7	100.00	20.00						
Barrier4	W	0.00	99.99	0.00				0.00	point19	19	1,772.7	610.4	100.00	15.00	0.00	0	0			
									point20	20	1,878.8	609.1	100.00	15.00	0.00	0	0			
									point21	21	1,881.8	760.9	100.00	15.00	0.00	0	0			
									point22	22	1,775.7	760.9	100.00	15.00						
Barrier5	W	0.00	99.99	0.00				0.00	point23	23	1,827.2	773.3	100.00	20.00	0.00	0	0			
									point24	24	1,865.8	773.3	100.00	20.00	0.00	0	0			
									point25	25	1,865.8	807.1	100.00	20.00	0.00	0	0			
									point26	26	1,827.2	807.1	100.00	20.00						
Barrier6	W	0.00	99.99	0.00				0.00	point27	27	1,732.1	966.2	100.00	20.00	0.00	0	0			
									point28	28	1,866.5	966.2	100.00	20.00	0.00	0	0			
									point29	29	1,866.5	1,060.6	100.00	20.00	0.00	0	0			
									point30	30	1,732.1	1,060.6	100.00	20.00						
Barrier7	W	0.00	99.99	0.00				0.00	point31	31	1,940.6	765.7	100.00	20.00	0.00	0	0			
									point32	32	1,977.8	765.4	100.00	20.00	0.00	0	0			
									point33	33	1,978.2	807.8	100.00	20.00	0.00	0	0			
									point34	34	1,941.0	808.1	100.00	20.00						
Barrier8	W	0.00	99.99	0.00				0.00	point36	36	1,951.3	815.2	100.00	20.00	0.00	0	0			

INPUT: BARRIERS

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									point37	37	2,061.9	813.6	100.00	20.00	0.00	0	0		
									point38	38	2,062.6	844.2	100.00	20.00	0.00	0	0		
Barrier9	W	0.00	99.99	0.00			0.00		point39	39	1,951.7	845.8	100.00	20.00					
									point40	40	1,953.7	903.1	100.00	20.00	0.00	0	0		
									point41	41	1,953.4	863.2	100.00	20.00	0.00	0	0		
									point42	42	2,083.6	862.1	100.00	20.00	0.00	0	0		
									point43	43	2,083.9	902.0	100.00	20.00					
Barrier10	W	0.00	99.99	0.00			0.00		point45	45	1,954.1	917.6	100.00	20.00	0.00	0	0		
									point46	46	2,043.3	916.6	100.00	20.00	0.00	0	0		
									point47	47	2,043.8	957.6	100.00	20.00	0.00	0	0		
									point48	48	1,973.4	958.4	100.00	20.00	0.00	0	0		
									point49	49	1,973.3	949.3	100.00	20.00	0.00	0	0		
									point50	50	1,954.5	949.5	100.00	20.00					
Barrier11	W	0.00	99.99	0.00			0.00		point52	52	1,864.9	814.0	100.00	20.00	0.00	0	0		
									point53	53	1,865.4	852.9	100.00	20.00	0.00	0	0		
									point54	54	1,828.9	853.2	100.00	20.00					
Barrier12	W	0.00	99.99	0.00			0.00		point56	56	1,736.8	816.1	100.00	20.00	0.00	0	0		
									point57	57	1,819.5	815.0	100.00	20.00	0.00	0	0		
									point58	58	1,820.3	848.0	100.00	20.00	0.00	0	0		
									point59	59	1,736.6	848.0	100.00	20.00					
Barrier13	W	0.00	99.99	0.00			0.00		point60	60	1,622.5	611.7	100.00	15.00	0.00	0	0		
									point61	61	1,676.0	609.5	100.00	15.00	0.00	0	0		
									point62	62	1,673.9	692.0	100.00	15.00	0.00	0	0		
									point63	63	1,619.2	692.0	100.00	15.00					
Barrier14	W	0.00	99.99	0.00			0.00		point64	64	1,676.6	611.1	100.00	15.00	0.00	0	0		
									point65	65	1,724.7	610.5	100.00	15.00	0.00	0	0		
									point66	66	1,723.1	760.3	100.00	15.00	0.00	0	0		
									point67	67	1,622.5	759.8	100.00	15.00	0.00	0	0		
									point68	68	1,623.0	709.5	100.00	15.00	0.00	0	0		
									point69	69	1,673.3	709.5	100.00	15.00					
Barrier15	W	0.00	99.99	0.00			0.00		point70	70	1,621.4	731.4	100.00	20.00	0.00	0	0		
									point71	71	1,620.8	761.5	100.00	20.00	0.00	0	0		
									point72	72	1,569.4	761.5	100.00	20.00	0.00	0	0		
									point73	73	1,571.1	731.4	100.00	20.00					
Barrier16	W	0.00	99.99	0.00			0.00		point74	74	1,946.7	609.2	100.00	15.00	0.00	0	0		
									point75	75	2,093.8	607.1	100.00	15.00	0.00	0	0		
									point76	76	2,094.7	675.9	100.00	15.00	0.00	0	0		
									point77	77	2,047.8	676.6	100.00	15.00	0.00	0	0		
									point78	78	2,047.3	643.1	100.00	15.00	0.00	0	0		
									point79	79	1,948.6	643.3	100.00	15.00					
Barrier17	W	0.00	99.99	0.00			0.00		point81	81	1,468.0	629.3	100.00	15.00	0.00	0	0		
									point82	82	1,508.7	628.9	100.00	15.00	0.00	0	0		
									point83	83	1,507.5	680.5	100.00	15.00	0.00	0	0		
									point84	84	1,465.8	681.0	100.00	15.00					
Barrier18	W	0.00	99.99	0.00			0.00		point85	85	1,448.9	727.8	100.00	20.00	0.00	0	0		
									point86	86	1,509.2	727.8	100.00	20.00	0.00	0	0		
									point87	87	1,510.5	830.3	100.00	20.00	0.00	0	0		
									point88	88	1,471.4	830.3	100.00	20.00	0.00	0	0		
									point89	89	1,471.4	815.5	100.00	20.00	0.00	0	0		



INPUT: BARRIERS

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									point90	90	1,447.6	815.5	100.00	20.00				
Barrier19	W	0.00	99.99	0.00			0.00	point91	91	1,350.3	841.5	100.00	20.00	0.00	0	0		
								point92	92	1,507.4	840.7	100.00	20.00	0.00	0	0		
								point93	93	1,508.2	981.3	100.00	20.00	0.00	0	0		
								point94	94	1,406.4	981.8	100.00	20.00	0.00	0	0		
								point95	95	1,406.5	1,011.6	100.00	20.00	0.00	0	0		
								point96	96	1,351.3	1,011.8	100.00	20.00					
Barrier20	W	0.00	99.99	0.00			0.00	point97	97	1,572.9	1,017.9	100.00	20.00	0.00	0	0		
								point98	98	1,709.3	1,018.6	100.00	20.00	0.00	0	0		
								point99	99	1,708.8	1,113.0	100.00	20.00	0.00	0	0		
								point100	100	1,572.4	1,112.3	100.00	20.00					
Barrier21	W	0.00	99.99	0.00			0.00	point101	101	1,500.2	532.9	100.00	15.00	0.00	0	0		
								point102	102	1,773.6	532.9	100.00	15.00	0.00	0	0		
								point103	103	1,773.6	408.9	100.00	15.00	0.00	0	0		
								point104	104	1,664.8	408.9	100.00	15.00	0.00	0	0		
								point105	105	1,664.8	459.9	100.00	15.00	0.00	0	0		
								point106	106	1,500.2	459.9	100.00	15.00					
Barrier22	W	0.00	99.99	0.00			0.00	point108	108	1,930.5	531.7	100.00	15.00	0.00	0	0		
								point109	109	2,094.5	530.3	100.00	15.00	0.00	0	0		
								point110	110	2,093.9	462.7	100.00	15.00	0.00	0	0		
								point111	111	1,960.8	463.9	100.00	15.00	0.00	0	0		
								point112	112	1,960.4	406.3	100.00	15.00	0.00	0	0		
								point113	113	1,929.5	406.5	100.00	15.00					
Barrier23	W	0.00	99.99	0.00			0.00	point115	115	2,071.9	389.2	100.00	20.00	0.00	0	0		
								point116	116	2,075.8	145.0	100.00	20.00	0.00	0	0		
								point117	117	1,852.2	143.7	100.00	20.00	0.00	0	0		
								point118	118	1,848.4	385.6	100.00	20.00					
Barrier24	W	0.00	99.99	0.00			0.00	point119	119	1,643.6	389.3	100.00	20.00	0.00	0	0		
								point120	120	1,759.3	388.0	100.00	20.00	0.00	0	0		
								point121	121	1,760.7	97.3	100.00	20.00	0.00	0	0		
								point122	122	1,649.1	98.6	100.00	20.00					
Barrier25	W	0.00	99.99	0.00			0.00	point123	123	1,519.6	106.9	100.00	20.00	0.00	0	0		
								point124	124	1,628.3	105.9	100.00	20.00	0.00	0	0		
								point125	125	1,630.1	295.5	100.00	20.00	0.00	0	0		
								point126	126	1,603.6	295.8	100.00	20.00	0.00	0	0		
								point127	127	1,604.1	349.2	100.00	20.00	0.00	0	0		
								point128	128	1,579.2	349.4	100.00	20.00	0.00	0	0		
								point129	129	1,579.5	382.5	100.00	20.00	0.00	0	0		
								point130	130	1,544.4	382.8	100.00	20.00	0.00	0	0		
								point131	131	1,544.0	348.0	100.00	20.00	0.00	0	0		
								point132	132	1,521.9	348.2	100.00	20.00					
Barrier26	W	0.00	99.99	0.00			0.00	point133	133	1,953.8	970.7	100.00	20.00	0.00	0	0		
								point134	134	2,087.4	969.0	100.00	20.00	0.00	0	0		
								point135	135	2,092.4	1,352.6	100.00	20.00	0.00	0	0		
								point136	136	1,958.8	1,354.4	100.00	20.00					
Barrier27	W	0.00	99.99	0.00			0.00	point137	137	2,125.0	740.4	100.00	20.00	0.00	0	0		
								point138	138	2,215.2	740.4	100.00	20.00	0.00	0	0		
								point139	139	2,215.2	920.9	100.00	20.00	0.00	0	0		
								point140	140	2,125.0	920.9	100.00	20.00					

INPUT: BARRIERS

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Barrier28	W	0.00	99.99	0.00				0.00	point141	141	2,125.0	933.0	100.00	20.00	0.00	0	0		
									point142	142	2,206.6	933.0	100.00	20.00	0.00	0	0		
									point143	143	2,206.6	1,408.3	100.00	20.00	0.00	0	0		
									point144	144	2,125.0	1,408.3	100.00	20.00					
Barrier29	W	0.00	99.99	0.00				0.00	point145	145	1,449.8	475.1	100.00	15.00	0.00	0	0		
									point146	146	1,449.3	542.9	100.00	15.00	0.00	0	0		
									point147	147	1,251.3	544.6	100.00	15.00	0.00	0	0		
									point148	148	1,250.7	475.7	100.00	15.00					
Barrier30	W	0.00	99.99	0.00				0.00	point149	149	1,135.4	413.3	100.00	15.00	0.00	0	0		
									point150	150	1,134.1	528.3	100.00	15.00	0.00	0	0		
									point151	151	836.7	524.9	100.00	15.00	0.00	0	0		
									point152	152	837.9	409.9	100.00	15.00					
Barrier31	W	0.00	99.99	0.00				0.00	point153	153	1,141.1	624.3	100.00	15.00	0.00	0	0		
									point154	154	1,141.1	766.2	100.00	15.00	0.00	0	0		
									point155	155	876.5	766.2	100.00	15.00	0.00	0	0		
									point156	156	876.5	672.5	100.00	15.00	0.00	0	0		
									point157	157	977.1	672.5	100.00	15.00	0.00	0	0		
									point158	158	977.1	624.3	100.00	15.00					
Barrier32	W	0.00	99.99	0.00				0.00	point159	159	1,136.9	788.3	100.00	20.00	0.00	0	0		
									point160	160	1,138.3	922.0	100.00	20.00	0.00	0	0		
									point161	161	1,030.9	923.1	100.00	20.00	0.00	0	0		
									point162	162	1,029.5	789.4	100.00	20.00					
Barrier33	W	0.00	99.99	0.00				0.00	point163	163	1,223.8	861.3	100.00	20.00	0.00	0	0		
									point164	164	1,223.8	917.8	100.00	20.00	0.00	0	0		
									point165	165	1,349.2	917.8	100.00	20.00	0.00	0	0		
									point166	166	1,349.2	861.3	100.00	20.00					
Barrier34	W	0.00	99.99	0.00				0.00	point167	167	1,324.4	989.5	100.00	20.00	0.00	0	0		
									point168	168	1,327.2	1,138.3	100.00	20.00	0.00	0	0		
									point169	169	1,371.2	1,137.5	100.00	20.00	0.00	0	0		
									point170	170	1,372.4	1,200.4	100.00	20.00	0.00	0	0		
									point171	171	1,267.9	1,202.3	100.00	20.00	0.00	0	0		
									point172	172	1,264.8	1,032.2	100.00	20.00	0.00	0	0		
									point173	173	1,237.6	1,032.7	100.00	20.00	0.00	0	0		
									point174	174	1,236.9	991.1	100.00	20.00					
Barrier35	W	0.00	99.99	0.00				0.00	point175	175	1,212.7	1,229.3	100.00	20.00	0.00	0	0		
									point176	176	1,324.4	1,227.9	100.00	20.00	0.00	0	0		
									point177	177	1,324.4	1,267.9	100.00	20.00	0.00	0	0		
									point178	178	1,208.6	1,269.3	100.00	20.00	0.00	0	0		
									point179	179	1,210.0	1,219.6	100.00	20.00					
Barrier36	W	0.00	99.99	0.00				0.00	point180	180	1,101.1	979.9	100.00	20.00	0.00	0	0		
									point181	181	1,098.4	1,081.8	100.00	20.00	0.00	0	0		
									point182	182	929.0	1,077.3	100.00	20.00	0.00	0	0		
									point183	183	931.7	975.3	100.00	20.00					
Barrier37	W	0.00	99.99	0.00				0.00	point185	185	2,276.6	610.3	100.00	15.00	0.00	0	0		
									point186	186	2,276.6	697.9	100.00	15.00	0.00	0	0		
									point187	187	2,642.7	697.9	100.00	15.00	0.00	0	0		
									point188	188	2,642.7	610.3	100.00	15.00					
Barrier38	W	0.00	99.99	0.00				0.00	point189	189	1,089.5	389.4	100.00	20.00	0.00	0	0		
									point190	190	1,087.3	242.8	100.00	20.00	0.00	0	0		

**INPUT: BARRIERS**

**9127**

									point191	191	1,128.8	242.2	100.00	20.00	0.00	0	0		
									point192	192	1,131.0	388.8	100.00	20.00					
Barrier39	W	0.00	99.99	0.00				0.00	point194	194	1,352.7	394.4	100.00	20.00	0.00	0	0		
									point195	195	1,446.4	392.7	100.00	20.00	0.00	0	0		
									point196	196	1,444.7	305.9	100.00	20.00	0.00	0	0		
									point197	197	1,350.9	307.6	100.00	20.00					
Barrier40	W	0.00	99.99	0.00				0.00	point198	198	1,260.6	285.0	100.00	20.00	0.00	0	0		
									point199	199	1,429.1	283.3	100.00	20.00	0.00	0	0		
									point200	200	1,432.4	92.4	100.00	20.00	0.00	0	0		
									point201	201	1,258.7	94.1	100.00	20.00					
Barrier41	W	0.00	99.99	0.00				0.00	point202	202	2,145.4	522.9	100.00	15.00	0.00	0	0		
									point203	203	2,147.6	398.2	100.00	15.00	0.00	0	0		
									point204	204	2,414.4	398.5	100.00	15.00	0.00	0	0		
									point205	205	2,414.4	523.2	100.00	15.00					
Barrier42	W	0.00	99.99	0.00				0.00	point206	206	2,160.8	277.8	100.00	20.00	0.00	0	0		
									point207	207	2,165.1	46.0	100.00	20.00	0.00	0	0		
									point208	208	2,285.4	43.8	100.00	20.00	0.00	0	0		
									point209	209	2,281.1	275.7	100.00	20.00					

**RESULTS: SOUND LEVELS**

9127

Dudek MG										5 August 2019 TNM 2.5 Calculated with TNM 2.5		
<b>RESULTS: SOUND LEVELS</b>												
<b>PROJECT/CONTRACT:</b>										9127		
<b>RUN:</b>										SM Blvd/O.Grove We Ho Exist 2019		
<b>BARRIER DESIGN:</b>										INPUT HEIGHTS		
<b>ATMOSPHERICS:</b>										68 deg F, 50% RH		
										Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.		
<b>Receiver</b>												
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing LAeq1h</b>	<b>No Barrier LAeq1h</b>	<b>Increase over existing</b>		<b>Type</b>	<b>With Barrier</b>		<b>Noise Reduction</b>		
				<b>Calculated</b>	<b>Crit'n</b>	<b>Calculated</b>	<b>Crit'n</b>	<b>Impact</b>	<b>Calculated LAeq1h</b>	<b>Calculated</b>	<b>Goal</b>	<b>Calculated minus Goal</b>
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
R1 / ST1 Proj Site on SMB	18	1	0.0	67.6	66	67.6	10	Snd Lvl	67.6	0.0	8	-8.0
R2 /ST2 Resi n of Proj Site	20	1	0.0	43.3	66	43.3	10	----	43.3	0.0	8	-8.0
R3 / ST3 Proj Site on N O.Grove Blvd	21	1	0.0	56.6	66	56.6	10	----	56.6	0.0	8	-8.0
R4 / ST4 child car on N O.Grove Blvd	22	1	0.0	54.4	66	54.4	10	----	54.4	0.0	8	-8.0
R5 / ST5 Resi N Ogden Dr n of SMB	23	1	0.0	55.0	66	55.0	10	----	55.0	0.0	8	-8.0
R6 / ST6 Resi N Ogden Dr n of SMB	24	1	0.0	58.3	66	58.3	10	----	58.3	0.0	8	-8.0
R7 Resi N Fairfax Ave n of SMB	25	1	0.0	63.2	66	63.2	10	----	63.2	0.0	8	-8.0
R8 Res N Fairfax Ave s of SMB	26	1	0.0	66.2	66	66.2	10	Snd Lvl	66.2	0.0	8	-8.0
R9 Resi N O.Grove Blvd s of SMB	27	1	0.0	53.8	66	53.8	10	----	53.8	0.0	8	-8.0
R10 Resi N Ogden Dr s of SMB	28	1	0.0	55.7	66	55.7	10	----	55.7	0.0	8	-8.0
R11 Resi N Genessee Ave n of SMB	29	1	0.0	57.3	66	57.3	10	----	57.3	0.0	8	-8.0
R12 Resi N Genessee Ave s of SMB	33	1	0.0	56.3	66	56.3	10	----	56.3	0.0	8	-8.0
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>									
			<b>Min</b>	<b>Avg</b>	<b>Max</b>							
			<b>dB</b>	<b>dB</b>	<b>dB</b>							
All Selected		12	0.0	0.0	0.0							
All Impacted		2	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

Dudek MG				5 August 2019 TNM 2.5							
INPUT: ROADWAYS							Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA				
PROJECT/CONTRACT: 9127											
RUN: S M Blvd/O.Grove WeHo ExwPr 2019											
Roadway Name	Width	Points Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
N Fairfax Ave s of Santa Monica Blvd	60.0	point1	1	1,196.5	55.6	100.00				Average	
		point2	2	1,196.5	547.7	100.00					
N Fairfax Ave n of Santa Monica Blvd	60.0	point3	3	1,195.7	613.6	100.00				Average	
		point4	4	1,162.7	1,852.9	100.00				Average	
		point5	5	1,160.1	1,979.6	100.00					
Santa Monica Blvd w. of N. Fairfax	55.0	point6	6	2.1	561.0	100.00				Average	
		point7	7	291.4	563.0	100.00				Average	
		point8	8	737.0	573.4	100.00				Average	
		point9	9	1,197.4	586.5	100.00					
N Orange Grove Ave s of St Mnca Blvd	38.0	point15	15	1,482.2	93.3	100.00				Average	
		point16	16	1,475.6	561.3	100.00					
N Orange Grove Ave n of St Mnca Blvd	38.0	point17	17	1,550.0	600.7	100.00				Average	
		point18	18	1,539.1	1,842.9	100.00					
N Ogden Ave s of Sta Mnca Blvd	38.0	point19	19	1,801.5	89.0	100.00				Average	
		point20	20	1,797.1	554.8	100.00					
N Ogden Ave n of Sta Mnca Blvd	34.0	point21	21	1,921.8	589.8	100.00				Average	
		point22	22	1,919.6	1,814.4	100.00					
N Genessee Ave s of St Mnca Blvd	38.0	point23	23	2,118.6	89.0	100.00				Average	
		point24	24	2,123.0	548.2	100.00					
N Genessee Ave n of St Mnca Blvd	34.0	point25	25	2,249.8	581.0	100.00				Average	
		point26	26	2,247.6	1,838.5	100.00					
Santa Monica Blvd Fairfax to OrngeGrv	55.0	point29	29	1,197.4	586.5	100.00				Average	
		point10	10	1,559.3	577.7	100.00					
Santa Monica Blvd OrngeGrv to Ogdon	55.0	point30	30	1,559.3	577.7	100.00				Average	
		point11	11	1,918.6	567.3	100.00					

**INPUT: ROADWAYS****9127**

Santa Monica Blvd Ogdon to Genesee	55.0	point31	31	1,918.6	567.3	100.00				Average	
		point12	12	2,250.1	565.6	100.00					
Santa Monica Blvd e of N Genesee Ave	55.0	point32	32	2,250.1	565.6	100.00				Average	
		point13	13	2,668.4	560.5	100.00				Average	
		point14	14	3,190.6	553.6	100.00					

INPUT: TRAFFIC FOR LAeq1h Volumes

9127

Dudek													
MG													
				5 August 2019									
				TNM 2.5									
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:		9127											
RUN:		S M Blvd/O.Grove WeHo ExwPr 2019											
Roadway	Points												
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles		
			Autos		V	S	V	S	V	S	V	S	
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	
N Fairfax Ave s of Santa Monica Blvd	point1	1	2139	35	44	35	22	35	0	0	0	0	
	point2	2											
N Fairfax Ave n of Santa Monica Blvd	point3	3	2092	25	43	25	22	25	0	0	0	0	
	point4	4	2092	25	43	25	22	25	0	0	0	0	
	point5	5											
Santa Monica Blvd w. of N. Fairfax	point6	6	2425	30	50	30	25	30	0	0	0	0	
	point7	7	2425	30	50	30	25	30	0	0	0	0	
	point8	8	2425	30	50	30	25	30	0	0	0	0	
	point9	9											
N Orange GroveAve s of St Mnca Blvd	point15	15	94	25	2	25	1	25	0	0	0	0	
	point16	16											
N Orange GroveAve n of St Mnca Blvd	point17	17	137	25	3	25	1	25	0	0	0	0	
	point18	18											
N Ogden Ave s of Sta Mnca Blvd	point19	19	167	25	3	25	2	25	0	0	0	0	
	point20	20											
N Ogden Ave n of Sta Mnca Blvd	point21	21	235	25	5	25	2	25	0	0	0	0	
	point22	22											
N Genessee Ave s of St Mnca Blvd	point23	23	156	25	3	25	2	25	0	0	0	0	
	point24	24											
N Genessee Ave n of St Mnca Blvd	point25	25	192	25	4	25	2	25	0	0	0	0	
	point26	26											
Santa Monica Blvd Fairfax to OrngeGrv	point29	29	2423	30	50	30	25	30	0	0	0	0	
	point10	10											

**INPUT: TRAFFIC FOR LAeq1h Volumes****9127**

Santa Monica Blvd OrngeGrv to Ogdon	point30	30	2485	30	51	30	26	30	0	0	0	0
	point11	11										
Santa Monica Blvd Ogdon to Genesee	point31	31	2473	30	51	30	25	30	0	0	0	0
	point12	12										
Santa Monica Blvd e of N Genesee Ave	point32	32	2433	30	50	30	25	30	0	0	0	0
	point13	13	2433	30	50	30	25	30	0	0	0	0
	point14	14										



**INPUT: RECEIVERS**

**9127**

							<b>5 August 2019</b>					
<b>Dudek</b>												
<b>MG</b>												
<b>INPUT: RECEIVERS</b>												
<b>PROJECT/CONTRACT:</b>		<b>9127</b>										
<b>RUN:</b>		<b>S M Blvd/O.Grove WeHo ExwPr 2019</b>										
<b>Receiver</b>												
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.	
			X	Y	Z		Existing LAeq1h	Impact LAeq1h	Criteria Sub'l	NR Goal		
			ft	ft	ft	ft	dBA	dBA	dB	dB		
R1 / ST1 Proj Site on SMB	18	1	1,757.9	613.1	100.00	5.00	0.00	66	10.0	8.0	Y	
R2 /ST2 Resi n of Proj Site	20	1	1,794.5	782.1	100.00	5.00	0.00	66	10.0	8.0	Y	
R3 / ST3 Proj Site on N O.Grove Blvd	21	1	1,572.0	796.3	100.00	5.00	0.00	66	10.0	8.0	Y	
R4 / ST4 child car on N O.Grove Blvd	22	1	1,579.0	923.0	100.00	5.00	0.00	66	10.0	8.0	Y	
R5 / ST5 Resi N Ogden Dr n of SMB	23	1	1,871.6	869.2	100.00	5.00	0.00	66	10.0	8.0	Y	
R6 / ST6 Resi N Ogden Dr n of SMB	24	1	1,944.6	820.6	100.00	5.00	0.00	66	10.0	8.0	Y	
R7 Resi N Fairfax Ave n of SMB	25	1	1,117.4	1,119.3	100.00	5.00	0.00	66	10.0	8.0	Y	
R8 Res N Fairfax Ave s of SMB	26	1	1,132.7	227.5	100.00	5.00	0.00	66	10.0	8.0	Y	
R9 Resi N O.Grove Blvd s of SMB	27	1	1,510.7	217.5	100.00	5.00	0.00	66	10.0	8.0	Y	
R10 Resi N Ogden Dr s of SMB	28	1	1,835.2	266.9	100.00	5.00	0.00	66	10.0	8.0	Y	
R11 Resi N Genessee Ave n of SMB	29	1	2,221.1	904.9	100.00	5.00	0.00	66	10.0	8.0	Y	
R12 Resi N Genessee Ave s of SMB	33	1	2,148.2	231.9	100.00	5.00	0.00	66	10.0	8.0	Y	

<b>Dudek</b>	<b>5 August 2019</b>	
<b>MG</b>	<b>TNM 2.5</b>	

**INPUT: BARRIERS**  
**PROJECT/CONTRACT:** 9127  
**RUN:** S M Blvd/O.Grove WeHo ExwPr 2019

Barrier									Points										
Name	Type	Height		If Wall \$ per Unit Area	If Berm \$ per Unit Vol.	Top Width	Run:Rise	Add'tnl \$ per Unit Length	Name	No.	Coordinates (bottom)			Height at Point	Segment Seg Ht	Perturbs		On Struct?	Important Reflec- tions?
		Min	Max								X	Y	Z			Incr-	#Up #Dn		
		ft	ft	\$/sq ft	\$/cu yd	ft	ft:ft	\$/ft			ft	ft	ft	ft	ft				
Barrier1	W	0.00	99.99	0.00				0.00	point1	1	1,579.2	860.8	100.00	20.00	0.00	0	0		
									point2	2	1,680.4	860.8	100.00	20.00	0.00	0	0		
									point3	3	1,680.4	873.2	100.00	20.00	0.00	0	0		
									point4	4	1,714.2	873.2	100.00	20.00	0.00	0	0		
									point5	5	1,714.2	898.0	100.00	20.00	0.00	0	0		
									point6	6	1,655.6	898.0	100.00	20.00	0.00	0	0		
									point7	7	1,655.6	900.1	100.00	20.00	0.00	0	0		
									point8	8	1,599.2	900.1	100.00	20.00	0.00	0	0		
									point9	9	1,599.2	877.3	100.00	20.00	0.00	0	0		
									point10	10	1,579.2	877.3	100.00	20.00	0.00	0	0		
Barrier2	W	0.00	99.99	0.00				0.00	point11	11	1,731.4	863.2	100.00	20.00	0.00	0	0		
									point12	12	1,865.1	861.5	100.00	20.00	0.00	0	0		
									point13	13	1,865.7	907.7	100.00	20.00	0.00	0	0		
									point14	14	1,732.0	909.4	100.00	20.00	0.00	0	0		
Barrier3	W	0.00	99.99	0.00				0.00	point15	15	1,732.1	915.9	100.00	20.00	0.00	0	0		
									point16	16	1,867.8	915.2	100.00	20.00	0.00	0	0		
									point17	17	1,868.0	960.0	100.00	20.00	0.00	0	0		
									point18	18	1,732.3	960.7	100.00	20.00	0.00	0	0		
Barrier4	W	0.00	99.99	0.00				0.00	point19	19	1,772.7	610.4	100.00	15.00	0.00	0	0		
									point20	20	1,878.8	609.1	100.00	15.00	0.00	0	0		
									point21	21	1,881.8	760.9	100.00	15.00	0.00	0	0		
									point22	22	1,775.7	760.9	100.00	15.00	0.00	0	0		
Barrier5	W	0.00	99.99	0.00				0.00	point23	23	1,827.2	773.3	100.00	20.00	0.00	0	0		
									point24	24	1,865.8	773.3	100.00	20.00	0.00	0	0		
									point25	25	1,865.8	807.1	100.00	20.00	0.00	0	0		
									point26	26	1,827.2	807.1	100.00	20.00	0.00	0	0		
Barrier6	W	0.00	99.99	0.00				0.00	point27	27	1,732.1	966.2	100.00	20.00	0.00	0	0		
									point28	28	1,866.5	966.2	100.00	20.00	0.00	0	0		
									point29	29	1,866.5	1,060.6	100.00	20.00	0.00	0	0		
									point30	30	1,732.1	1,060.6	100.00	20.00	0.00	0	0		
Barrier7	W	0.00	99.99	0.00				0.00	point31	31	1,940.6	765.7	100.00	20.00	0.00	0	0		
									point32	32	1,977.8	765.4	100.00	20.00	0.00	0	0		
									point33	33	1,978.2	807.8	100.00	20.00	0.00	0	0		
									point34	34	1,941.0	808.1	100.00	20.00	0.00	0	0		
Barrier8	W	0.00	99.99	0.00				0.00	point36	36	1,951.3	815.2	100.00	20.00	0.00	0	0		

INPUT: BARRIERS

9127

									point37	37	2,061.9	813.6	100.00	20.00	0.00	0	0		
									point38	38	2,062.6	844.2	100.00	20.00	0.00	0	0		
Barrier9	W	0.00	99.99	0.00			0.00		point39	39	1,951.7	845.8	100.00	20.00					
									point40	40	1,953.7	903.1	100.00	20.00	0.00	0	0		
									point41	41	1,953.4	863.2	100.00	20.00	0.00	0	0		
									point42	42	2,083.6	862.1	100.00	20.00	0.00	0	0		
									point43	43	2,083.9	902.0	100.00	20.00					
Barrier10	W	0.00	99.99	0.00			0.00		point45	45	1,954.1	917.6	100.00	20.00	0.00	0	0		
									point46	46	2,043.3	916.6	100.00	20.00	0.00	0	0		
									point47	47	2,043.8	957.6	100.00	20.00	0.00	0	0		
									point48	48	1,973.4	958.4	100.00	20.00	0.00	0	0		
									point49	49	1,973.3	949.3	100.00	20.00	0.00	0	0		
									point50	50	1,954.5	949.5	100.00	20.00					
Barrier11	W	0.00	99.99	0.00			0.00		point52	52	1,864.9	814.0	100.00	20.00	0.00	0	0		
									point53	53	1,865.4	852.9	100.00	20.00	0.00	0	0		
									point54	54	1,828.9	853.2	100.00	20.00					
Barrier12	W	0.00	99.99	0.00			0.00		point56	56	1,736.8	816.1	100.00	20.00	0.00	0	0		
									point57	57	1,819.5	815.0	100.00	20.00	0.00	0	0		
									point58	58	1,820.3	848.0	100.00	20.00	0.00	0	0		
									point59	59	1,736.6	848.0	100.00	20.00					
Barrier13	W	0.00	99.99	0.00			0.00		point60	60	1,622.5	611.7	100.00	15.00	0.00	0	0		
									point61	61	1,676.0	609.5	100.00	15.00	0.00	0	0		
									point62	62	1,673.9	692.0	100.00	15.00	0.00	0	0		
									point63	63	1,619.2	692.0	100.00	15.00					
Barrier14	W	0.00	99.99	0.00			0.00		point64	64	1,676.6	611.1	100.00	15.00	0.00	0	0		
									point65	65	1,724.7	610.5	100.00	15.00	0.00	0	0		
									point66	66	1,723.1	760.3	100.00	15.00	0.00	0	0		
									point67	67	1,622.5	759.8	100.00	15.00	0.00	0	0		
									point68	68	1,623.0	709.5	100.00	15.00	0.00	0	0		
									point69	69	1,673.3	709.5	100.00	15.00					
Barrier15	W	0.00	99.99	0.00			0.00		point70	70	1,621.4	731.4	100.00	20.00	0.00	0	0		
									point71	71	1,620.8	761.5	100.00	20.00	0.00	0	0		
									point72	72	1,569.4	761.5	100.00	20.00	0.00	0	0		
									point73	73	1,571.1	731.4	100.00	20.00					
Barrier16	W	0.00	99.99	0.00			0.00		point74	74	1,946.7	609.2	100.00	15.00	0.00	0	0		
									point75	75	2,093.8	607.1	100.00	15.00	0.00	0	0		
									point76	76	2,094.7	675.9	100.00	15.00	0.00	0	0		
									point77	77	2,047.8	676.6	100.00	15.00	0.00	0	0		
									point78	78	2,047.3	643.1	100.00	15.00	0.00	0	0		
									point79	79	1,948.6	643.3	100.00	15.00					
Barrier17	W	0.00	99.99	0.00			0.00		point81	81	1,468.0	629.3	100.00	15.00	0.00	0	0		
									point82	82	1,508.7	628.9	100.00	15.00	0.00	0	0		
									point83	83	1,507.5	680.5	100.00	15.00	0.00	0	0		
									point84	84	1,465.8	681.0	100.00	15.00					
Barrier18	W	0.00	99.99	0.00			0.00		point85	85	1,448.9	727.8	100.00	20.00	0.00	0	0		
									point86	86	1,509.2	727.8	100.00	20.00	0.00	0	0		
									point87	87	1,510.5	830.3	100.00	20.00	0.00	0	0		
									point88	88	1,471.4	830.3	100.00	20.00	0.00	0	0		
									point89	89	1,471.4	815.5	100.00	20.00	0.00	0	0		

INPUT: BARRIERS

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									point90	90	1,447.6	815.5	100.00	20.00				
Barrier19	W	0.00	99.99	0.00			0.00	point91	91	1,350.3	841.5	100.00	20.00	0.00	0	0		
								point92	92	1,507.4	840.7	100.00	20.00	0.00	0	0		
								point93	93	1,508.2	981.3	100.00	20.00	0.00	0	0		
								point94	94	1,406.4	981.8	100.00	20.00	0.00	0	0		
								point95	95	1,406.5	1,011.6	100.00	20.00	0.00	0	0		
								point96	96	1,351.3	1,011.8	100.00	20.00					
Barrier20	W	0.00	99.99	0.00			0.00	point97	97	1,572.9	1,017.9	100.00	20.00	0.00	0	0		
								point98	98	1,709.3	1,018.6	100.00	20.00	0.00	0	0		
								point99	99	1,708.8	1,113.0	100.00	20.00	0.00	0	0		
								point100	100	1,572.4	1,112.3	100.00	20.00					
Barrier21	W	0.00	99.99	0.00			0.00	point101	101	1,500.2	532.9	100.00	15.00	0.00	0	0		
								point102	102	1,773.6	532.9	100.00	15.00	0.00	0	0		
								point103	103	1,773.6	408.9	100.00	15.00	0.00	0	0		
								point104	104	1,664.8	408.9	100.00	15.00	0.00	0	0		
								point105	105	1,664.8	459.9	100.00	15.00	0.00	0	0		
								point106	106	1,500.2	459.9	100.00	15.00					
Barrier22	W	0.00	99.99	0.00			0.00	point108	108	1,930.5	531.7	100.00	15.00	0.00	0	0		
								point109	109	2,094.5	530.3	100.00	15.00	0.00	0	0		
								point110	110	2,093.9	462.7	100.00	15.00	0.00	0	0		
								point111	111	1,960.8	463.9	100.00	15.00	0.00	0	0		
								point112	112	1,960.4	406.3	100.00	15.00	0.00	0	0		
								point113	113	1,929.5	406.5	100.00	15.00					
Barrier23	W	0.00	99.99	0.00			0.00	point115	115	2,071.9	389.2	100.00	20.00	0.00	0	0		
								point116	116	2,075.8	145.0	100.00	20.00	0.00	0	0		
								point117	117	1,852.2	143.7	100.00	20.00	0.00	0	0		
								point118	118	1,848.4	385.6	100.00	20.00					
Barrier24	W	0.00	99.99	0.00			0.00	point119	119	1,643.6	389.3	100.00	20.00	0.00	0	0		
								point120	120	1,759.3	388.0	100.00	20.00	0.00	0	0		
								point121	121	1,760.7	97.3	100.00	20.00	0.00	0	0		
								point122	122	1,649.1	98.6	100.00	20.00					
Barrier25	W	0.00	99.99	0.00			0.00	point123	123	1,519.6	106.9	100.00	20.00	0.00	0	0		
								point124	124	1,628.3	105.9	100.00	20.00	0.00	0	0		
								point125	125	1,630.1	295.5	100.00	20.00	0.00	0	0		
								point126	126	1,603.6	295.8	100.00	20.00	0.00	0	0		
								point127	127	1,604.1	349.2	100.00	20.00	0.00	0	0		
								point128	128	1,579.2	349.4	100.00	20.00	0.00	0	0		
								point129	129	1,579.5	382.5	100.00	20.00	0.00	0	0		
								point130	130	1,544.4	382.8	100.00	20.00	0.00	0	0		
								point131	131	1,544.0	348.0	100.00	20.00	0.00	0	0		
								point132	132	1,521.9	348.2	100.00	20.00					
Barrier26	W	0.00	99.99	0.00			0.00	point133	133	1,953.8	970.7	100.00	20.00	0.00	0	0		
								point134	134	2,087.4	969.0	100.00	20.00	0.00	0	0		
								point135	135	2,092.4	1,352.6	100.00	20.00	0.00	0	0		
								point136	136	1,958.8	1,354.4	100.00	20.00					
Barrier27	W	0.00	99.99	0.00			0.00	point137	137	2,125.0	740.4	100.00	20.00	0.00	0	0		
								point138	138	2,215.2	740.4	100.00	20.00	0.00	0	0		
								point139	139	2,215.2	920.9	100.00	20.00	0.00	0	0		
								point140	140	2,125.0	920.9	100.00	20.00					

INPUT: BARRIERS

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Barrier28	W	0.00	99.99	0.00				0.00	point141	141	2,125.0	933.0	100.00	20.00	0.00	0	0		
									point142	142	2,206.6	933.0	100.00	20.00	0.00	0	0		
									point143	143	2,206.6	1,408.3	100.00	20.00	0.00	0	0		
									point144	144	2,125.0	1,408.3	100.00	20.00					
Barrier29	W	0.00	99.99	0.00				0.00	point145	145	1,449.8	475.1	100.00	15.00	0.00	0	0		
									point146	146	1,449.3	542.9	100.00	15.00	0.00	0	0		
									point147	147	1,251.3	544.6	100.00	15.00	0.00	0	0		
									point148	148	1,250.7	475.7	100.00	15.00					
Barrier30	W	0.00	99.99	0.00				0.00	point149	149	1,135.4	413.3	100.00	15.00	0.00	0	0		
									point150	150	1,134.1	528.3	100.00	15.00	0.00	0	0		
									point151	151	836.7	524.9	100.00	15.00	0.00	0	0		
									point152	152	837.9	409.9	100.00	15.00					
Barrier31	W	0.00	99.99	0.00				0.00	point153	153	1,141.1	624.3	100.00	15.00	0.00	0	0		
									point154	154	1,141.1	766.2	100.00	15.00	0.00	0	0		
									point155	155	876.5	766.2	100.00	15.00	0.00	0	0		
									point156	156	876.5	672.5	100.00	15.00	0.00	0	0		
									point157	157	977.1	672.5	100.00	15.00	0.00	0	0		
									point158	158	977.1	624.3	100.00	15.00					
Barrier32	W	0.00	99.99	0.00				0.00	point159	159	1,136.9	788.3	100.00	20.00	0.00	0	0		
									point160	160	1,138.3	922.0	100.00	20.00	0.00	0	0		
									point161	161	1,030.9	923.1	100.00	20.00	0.00	0	0		
									point162	162	1,029.5	789.4	100.00	20.00					
Barrier33	W	0.00	99.99	0.00				0.00	point163	163	1,223.8	861.3	100.00	20.00	0.00	0	0		
									point164	164	1,223.8	917.8	100.00	20.00	0.00	0	0		
									point165	165	1,349.2	917.8	100.00	20.00	0.00	0	0		
									point166	166	1,349.2	861.3	100.00	20.00					
Barrier34	W	0.00	99.99	0.00				0.00	point167	167	1,324.4	989.5	100.00	20.00	0.00	0	0		
									point168	168	1,327.2	1,138.3	100.00	20.00	0.00	0	0		
									point169	169	1,371.2	1,137.5	100.00	20.00	0.00	0	0		
									point170	170	1,372.4	1,200.4	100.00	20.00	0.00	0	0		
									point171	171	1,267.9	1,202.3	100.00	20.00	0.00	0	0		
									point172	172	1,264.8	1,032.2	100.00	20.00	0.00	0	0		
									point173	173	1,237.6	1,032.7	100.00	20.00	0.00	0	0		
									point174	174	1,236.9	991.1	100.00	20.00					
Barrier35	W	0.00	99.99	0.00				0.00	point175	175	1,212.7	1,229.3	100.00	20.00	0.00	0	0		
									point176	176	1,324.4	1,227.9	100.00	20.00	0.00	0	0		
									point177	177	1,324.4	1,267.9	100.00	20.00	0.00	0	0		
									point178	178	1,208.6	1,269.3	100.00	20.00	0.00	0	0		
									point179	179	1,210.0	1,219.6	100.00	20.00					
Barrier36	W	0.00	99.99	0.00				0.00	point180	180	1,101.1	979.9	100.00	20.00	0.00	0	0		
									point181	181	1,098.4	1,081.8	100.00	20.00	0.00	0	0		
									point182	182	929.0	1,077.3	100.00	20.00	0.00	0	0		
									point183	183	931.7	975.3	100.00	20.00					
Barrier37	W	0.00	99.99	0.00				0.00	point185	185	2,276.6	610.3	100.00	15.00	0.00	0	0		
									point186	186	2,276.6	697.9	100.00	15.00	0.00	0	0		
									point187	187	2,642.7	697.9	100.00	15.00	0.00	0	0		
									point188	188	2,642.7	610.3	100.00	15.00					
Barrier38	W	0.00	99.99	0.00				0.00	point189	189	1,089.5	389.4	100.00	20.00	0.00	0	0		
									point190	190	1,087.3	242.8	100.00	20.00	0.00	0	0		

**INPUT: BARRIERS**

**9127**

									point191	191	1,128.8	242.2	100.00	20.00	0.00	0	0		
									point192	192	1,131.0	388.8	100.00	20.00					
Barrier39	W	0.00	99.99	0.00				0.00	point194	194	1,352.7	394.4	100.00	20.00	0.00	0	0		
									point195	195	1,446.4	392.7	100.00	20.00	0.00	0	0		
									point196	196	1,444.7	305.9	100.00	20.00	0.00	0	0		
									point197	197	1,350.9	307.6	100.00	20.00					
Barrier40	W	0.00	99.99	0.00				0.00	point198	198	1,260.6	285.0	100.00	20.00	0.00	0	0		
									point199	199	1,429.1	283.3	100.00	20.00	0.00	0	0		
									point200	200	1,432.4	92.4	100.00	20.00	0.00	0	0		
									point201	201	1,258.7	94.1	100.00	20.00					
Barrier41	W	0.00	99.99	0.00				0.00	point202	202	2,145.4	522.9	100.00	15.00	0.00	0	0		
									point203	203	2,147.6	398.2	100.00	15.00	0.00	0	0		
									point204	204	2,414.4	398.5	100.00	15.00	0.00	0	0		
									point205	205	2,414.4	523.2	100.00	15.00					
Barrier42	W	0.00	99.99	0.00				0.00	point206	206	2,160.8	277.8	100.00	20.00	0.00	0	0		
									point207	207	2,165.1	46.0	100.00	20.00	0.00	0	0		
									point208	208	2,285.4	43.8	100.00	20.00	0.00	0	0		
									point209	209	2,281.1	275.7	100.00	20.00					

RESULTS: SOUND LEVELS

9127

Dudek MG										5 August 2019 TNM 2.5 Calculated with TNM 2.5			
RESULTS: SOUND LEVELS PROJECT/CONTRACT: 9127 RUN: S M Blvd/O.Grove WeHo ExwPr 2019 BARRIER DESIGN: INPUT HEIGHTS										Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.			
ATMOSPHERICS: 68 deg F, 50% RH													
Receiver													
Name	No.	#DUs	Existing	No Barrier			Increase over existing		Type	With Barrier	Noise Reduction		
			LAeq1h	LAeq1h	Crit'n	Calculated	Crit'n	Impact	Calculated	Calculated	Goal	Calculated	
				Calculated	Crit'n	Calculated	Crit'n			LAeq1h	Calculated	Goal	Calculated
			dBA	dBA	dBA	dB	dB			dBA	dB	dB	minus Goal
R1 / ST1 Proj Site on SMB	18	1	0.0	67.7	66	67.7	10	Snd Lvl	67.7	0.0	8	-8.0	
R2 /ST2 Resi n of Proj Site	20	1	0.0	43.5	66	43.5	10	----	43.5	0.0	8	-8.0	
R3 / ST3 Proj Site on N O.Grove Blvd	21	1	0.0	57.2	66	57.2	10	----	57.2	0.0	8	-8.0	
R4 / ST4 child car on N O.Grove Blvd	22	1	0.0	55.1	66	55.1	10	----	55.1	0.0	8	-8.0	
R5 / ST5 Resi N Ogden Dr n of SMB	23	1	0.0	55.1	66	55.1	10	----	55.1	0.0	8	-8.0	
R6 / ST6 Resi N Ogden Dr n of SMB	24	1	0.0	58.4	66	58.4	10	----	58.4	0.0	8	-8.0	
R7 Resi N Fairfax Ave n of SMB	25	1	0.0	63.2	66	63.2	10	----	63.2	0.0	8	-8.0	
R8 Res N Fairfax Ave s of SMB	26	1	0.0	66.2	66	66.2	10	Snd Lvl	66.2	0.0	8	-8.0	
R9 Resi N O.Grove Blvd s of SMB	27	1	0.0	53.9	66	53.9	10	----	53.9	0.0	8	-8.0	
R10 Resi N Ogden Dr s of SMB	28	1	0.0	55.7	66	55.7	10	----	55.7	0.0	8	-8.0	
R11 Resi N Genessee Ave n of SMB	29	1	0.0	57.3	66	57.3	10	----	57.3	0.0	8	-8.0	
R12 Resi N Genessee Ave s of SMB	33	1	0.0	56.3	66	56.3	10	----	56.3	0.0	8	-8.0	
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>										
			<b>Min</b>	<b>Avg</b>	<b>Max</b>								
			<b>dB</b>	<b>dB</b>	<b>dB</b>								
All Selected		12	0.0	0.0	0.0								
All Impacted		2	0.0	0.0	0.0								
All that meet NR Goal		0	0.0	0.0	0.0								

Dudek MG				5 August 2019 TNM 2.5							
INPUT: ROADWAYS							Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA				
PROJECT/CONTRACT: 9127											
RUN: S M Blvd/O.Grove WeHo Cumltv 2019											
Roadway Name	Width	Points Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
N Fairfax Ave s of Santa Monica Blvd	60.0	point1	1	1,196.5	55.6	100.00				Average	
		point2	2	1,196.5	547.7	100.00					
N Fairfax Ave n of Santa Monica Blvd	60.0	point3	3	1,195.7	613.6	100.00				Average	
		point4	4	1,162.7	1,852.9	100.00				Average	
		point5	5	1,160.1	1,979.6	100.00					
Santa Monica Blvd w. of N. Fairfax	55.0	point6	6	2.1	561.0	100.00				Average	
		point7	7	291.4	563.0	100.00				Average	
		point8	8	737.0	573.4	100.00				Average	
		point9	9	1,197.4	586.5	100.00					
N Orange Grove Ave s of St Mnca Blvd	38.0	point15	15	1,482.2	93.3	100.00				Average	
		point16	16	1,475.6	561.3	100.00					
N Orange Grove Ave n of St Mnca Blvd	38.0	point17	17	1,550.0	600.7	100.00				Average	
		point18	18	1,539.1	1,842.9	100.00					
N Ogden Ave s of Sta Mnca Blvd	38.0	point19	19	1,801.5	89.0	100.00				Average	
		point20	20	1,797.1	554.8	100.00					
N Ogden Ave n of Sta Mnca Blvd	34.0	point21	21	1,921.8	589.8	100.00				Average	
		point22	22	1,919.6	1,814.4	100.00					
N Genessee Ave s of St Mnca Blvd	38.0	point23	23	2,118.6	89.0	100.00				Average	
		point24	24	2,123.0	548.2	100.00					
N Genessee Ave n of St Mnca Blvd	34.0	point25	25	2,249.8	581.0	100.00				Average	
		point26	26	2,247.6	1,838.5	100.00					
Santa Monica Blvd Fairfax to OrngeGrv	55.0	point29	29	1,197.4	586.5	100.00				Average	
		point10	10	1,559.3	577.7	100.00					
Santa Monica Blvd OrngeGrv to Ogdon	55.0	point30	30	1,559.3	577.7	100.00				Average	
		point11	11	1,918.6	567.3	100.00					



**INPUT: ROADWAYS****9127**

Santa Monica Blvd Ogdon to Genesee	55.0	point31	31	1,918.6	567.3	100.00				Average	
		point12	12	2,250.1	565.6	100.00					
Santa Monica Blvd e of N Genesee Ave	55.0	point32	32	2,250.1	565.6	100.00				Average	
		point13	13	2,668.4	560.5	100.00				Average	
		point14	14	3,190.6	553.6	100.00					

INPUT: TRAFFIC FOR LAeq1h Volumes

9127

Dudek		5 August 2019										
MG		TNM 2.5										
INPUT: TRAFFIC FOR LAeq1h Volumes												
PROJECT/CONTRACT:		9127										
RUN:		S M Blvd/O.Grove WeHo Cumltv 2019										
Roadway	Points											
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles	
			Autos		V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
N Fairfax Ave s of Santa Monica Blvd	point1	1	2377	35	49	35	25	35	0	0	0	0
	point2	2										
N Fairfax Ave n of Santa Monica Blvd	point3	3	2264	25	47	25	23	25	0	0	0	0
	point4	4	2264	25	47	25	23	25	0	0	0	0
	point5	5										
Santa Monica Blvd w. of N. Fairfax	point6	6	3443	30	71	30	35	30	0	0	0	0
	point7	7	3443	30	71	30	35	30	0	0	0	0
	point8	8	3443	30	71	30	35	30	0	0	0	0
	point9	9										
N Orange GroveAve s of St Mnca Blvd	point15	15	98	25	2	25	1	25	0	0	0	0
	point16	16										
N Orange GroveAve n of St Mnca Blvd	point17	17	123	25	3	25	1	25	0	0	0	0
	point18	18										
N Ogden Ave s of Sta Mnca Blvd	point19	19	181	25	4	25	2	25	0	0	0	0
	point20	20										
N Ogden Ave n of Sta Mnca Blvd	point21	21	240	25	5	25	2	25	0	0	0	0
	point22	22										
N Genessee Ave s of St Mnca Blvd	point23	23	190	25	4	25	2	25	0	0	0	0
	point24	24										
N Genessee Ave n of St Mnca Blvd	point25	25	219	25	5	25	2	25	0	0	0	0
	point26	26										
Santa Monica Blvd Fairfax to OrngeGrv	point29	29	3424	30	71	30	35	30	0	0	0	0
	point10	10										

**INPUT: TRAFFIC FOR LAeq1h Volumes****9127**

Santa Monica Blvd OrngeGrv to Ogdon	point30	30	3509	30	72	30	36	30	0	0	0	0
	point11	11										
Santa Monica Blvd Ogdon to Genesee	point31	31	3506	30	72	30	36	30	0	0	0	0
	point12	12										
Santa Monica Blvd e of N Genesee Ave	point32	32	3480	30	72	30	36	30	0	0	0	0
	point13	13	3480	30	72	30	36	30	0	0	0	0
	point14	14										

**INPUT: RECEIVERS**

**9127**

							<b>5 August 2019</b>					
<b>Dudek</b>												
<b>MG</b>												
<b>INPUT: RECEIVERS</b>												
<b>PROJECT/CONTRACT:</b>		<b>9127</b>										
<b>RUN:</b>		<b>S M Blvd/O.Grove WeHo Cumltv 2019</b>										
<b>Receiver</b>												
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.	
			X	Y	Z		Existing LAeq1h	Impact LAeq1h	Criteria Sub'l	NR Goal		
			ft	ft	ft	ft	dBA	dBA	dB	dB		
R1 / ST1 Proj Site on SMB	18	1	1,757.9	613.1	100.00	5.00	0.00	66	10.0	8.0	Y	
R2 /ST2 Resi n of Proj Site	20	1	1,794.5	782.1	100.00	5.00	0.00	66	10.0	8.0	Y	
R3 / ST3 Proj Site on N O.Grove Blvd	21	1	1,572.0	796.3	100.00	5.00	0.00	66	10.0	8.0	Y	
R4 / ST4 child car on N O.Grove Blvd	22	1	1,579.0	923.0	100.00	5.00	0.00	66	10.0	8.0	Y	
R5 / ST5 Resi N Ogden Dr n of SMB	23	1	1,871.6	869.2	100.00	5.00	0.00	66	10.0	8.0	Y	
R6 / ST6 Resi N Ogden Dr n of SMB	24	1	1,944.6	820.6	100.00	5.00	0.00	66	10.0	8.0	Y	
R7 Resi N Fairfax Ave n of SMB	25	1	1,117.4	1,119.3	100.00	5.00	0.00	66	10.0	8.0	Y	
R8 Res N Fairfax Ave s of SMB	26	1	1,132.7	227.5	100.00	5.00	0.00	66	10.0	8.0	Y	
R9 Resi N O.Grove Blvd s of SMB	27	1	1,510.7	217.5	100.00	5.00	0.00	66	10.0	8.0	Y	
R10 Resi N Ogden Dr s of SMB	28	1	1,835.2	266.9	100.00	5.00	0.00	66	10.0	8.0	Y	
R11 Resi N Genessee Ave n of SMB	29	1	2,221.1	904.9	100.00	5.00	0.00	66	10.0	8.0	Y	
R12 Resi N Genessee Ave s of SMB	33	1	2,148.2	231.9	100.00	5.00	0.00	66	10.0	8.0	Y	

Dudek			5 August 2019	
MG			TNM 2.5	
INPUT: BARRIERS				
PROJECT/CONTRACT:	9127			
RUN:	S M Blvd/O.Grove WeHo Cumltv 2019			

Barrier									Points										
Name	Type	Height		If Wall	If Berm		Add'tnl	Name	No.	Coordinates (bottom)			Height at Point	Segment			On Struct?	Important Reflec-tions?	
		Min	Max	\$ per Unit Area	\$ per Unit Vol.	Top Width	Run:Rise	\$ per Unit Length			X	Y	Z	ft	Seg Incre-	Ht #Up	Perturbs #Dn		
		ft	ft	\$/sq ft	\$/cu yd	ft	ft:ft	\$/ft			ft	ft	ft	ft	ft				
Barrier1	W	0.00	99.99	0.00				0.00	point1	1	1,579.2	860.8	100.00	20.00	0.00	0	0		
									point2	2	1,680.4	860.8	100.00	20.00	0.00	0	0		
									point3	3	1,680.4	873.2	100.00	20.00	0.00	0	0		
									point4	4	1,714.2	873.2	100.00	20.00	0.00	0	0		
									point5	5	1,714.2	898.0	100.00	20.00	0.00	0	0		
									point6	6	1,655.6	898.0	100.00	20.00	0.00	0	0		
									point7	7	1,655.6	900.1	100.00	20.00	0.00	0	0		
									point8	8	1,599.2	900.1	100.00	20.00	0.00	0	0		
									point9	9	1,599.2	877.3	100.00	20.00	0.00	0	0		
									point10	10	1,579.2	877.3	100.00	20.00					
Barrier2	W	0.00	99.99	0.00				0.00	point11	11	1,731.4	863.2	100.00	20.00	0.00	0	0		
									point12	12	1,865.1	861.5	100.00	20.00	0.00	0	0		
									point13	13	1,865.7	907.7	100.00	20.00	0.00	0	0		
									point14	14	1,732.0	909.4	100.00	20.00					
Barrier3	W	0.00	99.99	0.00				0.00	point15	15	1,732.1	915.9	100.00	20.00	0.00	0	0		
									point16	16	1,867.8	915.2	100.00	20.00	0.00	0	0		
									point17	17	1,868.0	960.0	100.00	20.00	0.00	0	0		
									point18	18	1,732.3	960.7	100.00	20.00					
Barrier4	W	0.00	99.99	0.00				0.00	point19	19	1,772.7	610.4	100.00	15.00	0.00	0	0		
									point20	20	1,878.8	609.1	100.00	15.00	0.00	0	0		
									point21	21	1,881.8	760.9	100.00	15.00	0.00	0	0		
									point22	22	1,775.7	760.9	100.00	15.00					
Barrier5	W	0.00	99.99	0.00				0.00	point23	23	1,827.2	773.3	100.00	20.00	0.00	0	0		
									point24	24	1,865.8	773.3	100.00	20.00	0.00	0	0		
									point25	25	1,865.8	807.1	100.00	20.00	0.00	0	0		
									point26	26	1,827.2	807.1	100.00	20.00					
Barrier6	W	0.00	99.99	0.00				0.00	point27	27	1,732.1	966.2	100.00	20.00	0.00	0	0		
									point28	28	1,866.5	966.2	100.00	20.00	0.00	0	0		
									point29	29	1,866.5	1,060.6	100.00	20.00	0.00	0	0		
									point30	30	1,732.1	1,060.6	100.00	20.00					
Barrier7	W	0.00	99.99	0.00				0.00	point31	31	1,940.6	765.7	100.00	20.00	0.00	0	0		
									point32	32	1,977.8	765.4	100.00	20.00	0.00	0	0		
									point33	33	1,978.2	807.8	100.00	20.00	0.00	0	0		
									point34	34	1,941.0	808.1	100.00	20.00					
Barrier8	W	0.00	99.99	0.00				0.00	point36	36	1,951.3	815.2	100.00	20.00	0.00	0	0		

INPUT: BARRIERS

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									point37	37	2,061.9	813.6	100.00	20.00	0.00	0	0		
									point38	38	2,062.6	844.2	100.00	20.00	0.00	0	0		
Barrier9	W	0.00	99.99	0.00			0.00		point39	39	1,951.7	845.8	100.00	20.00					
									point40	40	1,953.7	903.1	100.00	20.00	0.00	0	0		
									point41	41	1,953.4	863.2	100.00	20.00	0.00	0	0		
									point42	42	2,083.6	862.1	100.00	20.00	0.00	0	0		
									point43	43	2,083.9	902.0	100.00	20.00					
Barrier10	W	0.00	99.99	0.00			0.00		point45	45	1,954.1	917.6	100.00	20.00	0.00	0	0		
									point46	46	2,043.3	916.6	100.00	20.00	0.00	0	0		
									point47	47	2,043.8	957.6	100.00	20.00	0.00	0	0		
									point48	48	1,973.4	958.4	100.00	20.00	0.00	0	0		
									point49	49	1,973.3	949.3	100.00	20.00	0.00	0	0		
									point50	50	1,954.5	949.5	100.00	20.00					
Barrier11	W	0.00	99.99	0.00			0.00		point52	52	1,864.9	814.0	100.00	20.00	0.00	0	0		
									point53	53	1,865.4	852.9	100.00	20.00	0.00	0	0		
									point54	54	1,828.9	853.2	100.00	20.00					
Barrier12	W	0.00	99.99	0.00			0.00		point56	56	1,736.8	816.1	100.00	20.00	0.00	0	0		
									point57	57	1,819.5	815.0	100.00	20.00	0.00	0	0		
									point58	58	1,820.3	848.0	100.00	20.00	0.00	0	0		
									point59	59	1,736.6	848.0	100.00	20.00					
Barrier13	W	0.00	99.99	0.00			0.00		point60	60	1,622.5	611.7	100.00	15.00	0.00	0	0		
									point61	61	1,676.0	609.5	100.00	15.00	0.00	0	0		
									point62	62	1,673.9	692.0	100.00	15.00	0.00	0	0		
									point63	63	1,619.2	692.0	100.00	15.00					
Barrier14	W	0.00	99.99	0.00			0.00		point64	64	1,676.6	611.1	100.00	15.00	0.00	0	0		
									point65	65	1,724.7	610.5	100.00	15.00	0.00	0	0		
									point66	66	1,723.1	760.3	100.00	15.00	0.00	0	0		
									point67	67	1,622.5	759.8	100.00	15.00	0.00	0	0		
									point68	68	1,623.0	709.5	100.00	15.00	0.00	0	0		
									point69	69	1,673.3	709.5	100.00	15.00					
Barrier15	W	0.00	99.99	0.00			0.00		point70	70	1,621.4	731.4	100.00	20.00	0.00	0	0		
									point71	71	1,620.8	761.5	100.00	20.00	0.00	0	0		
									point72	72	1,569.4	761.5	100.00	20.00	0.00	0	0		
									point73	73	1,571.1	731.4	100.00	20.00					
Barrier16	W	0.00	99.99	0.00			0.00		point74	74	1,946.7	609.2	100.00	15.00	0.00	0	0		
									point75	75	2,093.8	607.1	100.00	15.00	0.00	0	0		
									point76	76	2,094.7	675.9	100.00	15.00	0.00	0	0		
									point77	77	2,047.8	676.6	100.00	15.00	0.00	0	0		
									point78	78	2,047.3	643.1	100.00	15.00	0.00	0	0		
									point79	79	1,948.6	643.3	100.00	15.00					
Barrier17	W	0.00	99.99	0.00			0.00		point81	81	1,468.0	629.3	100.00	15.00	0.00	0	0		
									point82	82	1,508.7	628.9	100.00	15.00	0.00	0	0		
									point83	83	1,507.5	680.5	100.00	15.00	0.00	0	0		
									point84	84	1,465.8	681.0	100.00	15.00					
Barrier18	W	0.00	99.99	0.00			0.00		point85	85	1,448.9	727.8	100.00	20.00	0.00	0	0		
									point86	86	1,509.2	727.8	100.00	20.00	0.00	0	0		
									point87	87	1,510.5	830.3	100.00	20.00	0.00	0	0		
									point88	88	1,471.4	830.3	100.00	20.00	0.00	0	0		
									point89	89	1,471.4	815.5	100.00	20.00	0.00	0	0		

INPUT: BARRIERS

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									point90	90	1,447.6	815.5	100.00	20.00				
Barrier19	W	0.00	99.99	0.00			0.00	point91	91	1,350.3	841.5	100.00	20.00	0.00	0	0		
								point92	92	1,507.4	840.7	100.00	20.00	0.00	0	0		
								point93	93	1,508.2	981.3	100.00	20.00	0.00	0	0		
								point94	94	1,406.4	981.8	100.00	20.00	0.00	0	0		
								point95	95	1,406.5	1,011.6	100.00	20.00	0.00	0	0		
								point96	96	1,351.3	1,011.8	100.00	20.00					
Barrier20	W	0.00	99.99	0.00			0.00	point97	97	1,572.9	1,017.9	100.00	20.00	0.00	0	0		
								point98	98	1,709.3	1,018.6	100.00	20.00	0.00	0	0		
								point99	99	1,708.8	1,113.0	100.00	20.00	0.00	0	0		
								point100	100	1,572.4	1,112.3	100.00	20.00					
Barrier21	W	0.00	99.99	0.00			0.00	point101	101	1,500.2	532.9	100.00	15.00	0.00	0	0		
								point102	102	1,773.6	532.9	100.00	15.00	0.00	0	0		
								point103	103	1,773.6	408.9	100.00	15.00	0.00	0	0		
								point104	104	1,664.8	408.9	100.00	15.00	0.00	0	0		
								point105	105	1,664.8	459.9	100.00	15.00	0.00	0	0		
								point106	106	1,500.2	459.9	100.00	15.00					
Barrier22	W	0.00	99.99	0.00			0.00	point108	108	1,930.5	531.7	100.00	15.00	0.00	0	0		
								point109	109	2,094.5	530.3	100.00	15.00	0.00	0	0		
								point110	110	2,093.9	462.7	100.00	15.00	0.00	0	0		
								point111	111	1,960.8	463.9	100.00	15.00	0.00	0	0		
								point112	112	1,960.4	406.3	100.00	15.00	0.00	0	0		
								point113	113	1,929.5	406.5	100.00	15.00					
Barrier23	W	0.00	99.99	0.00			0.00	point115	115	2,071.9	389.2	100.00	20.00	0.00	0	0		
								point116	116	2,075.8	145.0	100.00	20.00	0.00	0	0		
								point117	117	1,852.2	143.7	100.00	20.00	0.00	0	0		
								point118	118	1,848.4	385.6	100.00	20.00					
Barrier24	W	0.00	99.99	0.00			0.00	point119	119	1,643.6	389.3	100.00	20.00	0.00	0	0		
								point120	120	1,759.3	388.0	100.00	20.00	0.00	0	0		
								point121	121	1,760.7	97.3	100.00	20.00	0.00	0	0		
								point122	122	1,649.1	98.6	100.00	20.00					
Barrier25	W	0.00	99.99	0.00			0.00	point123	123	1,519.6	106.9	100.00	20.00	0.00	0	0		
								point124	124	1,628.3	105.9	100.00	20.00	0.00	0	0		
								point125	125	1,630.1	295.5	100.00	20.00	0.00	0	0		
								point126	126	1,603.6	295.8	100.00	20.00	0.00	0	0		
								point127	127	1,604.1	349.2	100.00	20.00	0.00	0	0		
								point128	128	1,579.2	349.4	100.00	20.00	0.00	0	0		
								point129	129	1,579.5	382.5	100.00	20.00	0.00	0	0		
								point130	130	1,544.4	382.8	100.00	20.00	0.00	0	0		
								point131	131	1,544.0	348.0	100.00	20.00	0.00	0	0		
								point132	132	1,521.9	348.2	100.00	20.00					
Barrier26	W	0.00	99.99	0.00			0.00	point133	133	1,953.8	970.7	100.00	20.00	0.00	0	0		
								point134	134	2,087.4	969.0	100.00	20.00	0.00	0	0		
								point135	135	2,092.4	1,352.6	100.00	20.00	0.00	0	0		
								point136	136	1,958.8	1,354.4	100.00	20.00					
Barrier27	W	0.00	99.99	0.00			0.00	point137	137	2,125.0	740.4	100.00	20.00	0.00	0	0		
								point138	138	2,215.2	740.4	100.00	20.00	0.00	0	0		
								point139	139	2,215.2	920.9	100.00	20.00	0.00	0	0		
								point140	140	2,125.0	920.9	100.00	20.00					

INPUT: BARRIERS

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Barrier28	W	0.00	99.99	0.00				0.00	point141	141	2,125.0	933.0	100.00	20.00	0.00	0	0		
									point142	142	2,206.6	933.0	100.00	20.00	0.00	0	0		
									point143	143	2,206.6	1,408.3	100.00	20.00	0.00	0	0		
									point144	144	2,125.0	1,408.3	100.00	20.00					
Barrier29	W	0.00	99.99	0.00				0.00	point145	145	1,449.8	475.1	100.00	15.00	0.00	0	0		
									point146	146	1,449.3	542.9	100.00	15.00	0.00	0	0		
									point147	147	1,251.3	544.6	100.00	15.00	0.00	0	0		
									point148	148	1,250.7	475.7	100.00	15.00					
Barrier30	W	0.00	99.99	0.00				0.00	point149	149	1,135.4	413.3	100.00	15.00	0.00	0	0		
									point150	150	1,134.1	528.3	100.00	15.00	0.00	0	0		
									point151	151	836.7	524.9	100.00	15.00	0.00	0	0		
									point152	152	837.9	409.9	100.00	15.00					
Barrier31	W	0.00	99.99	0.00				0.00	point153	153	1,141.1	624.3	100.00	15.00	0.00	0	0		
									point154	154	1,141.1	766.2	100.00	15.00	0.00	0	0		
									point155	155	876.5	766.2	100.00	15.00	0.00	0	0		
									point156	156	876.5	672.5	100.00	15.00	0.00	0	0		
									point157	157	977.1	672.5	100.00	15.00	0.00	0	0		
									point158	158	977.1	624.3	100.00	15.00					
Barrier32	W	0.00	99.99	0.00				0.00	point159	159	1,136.9	788.3	100.00	20.00	0.00	0	0		
									point160	160	1,138.3	922.0	100.00	20.00	0.00	0	0		
									point161	161	1,030.9	923.1	100.00	20.00	0.00	0	0		
									point162	162	1,029.5	789.4	100.00	20.00					
Barrier33	W	0.00	99.99	0.00				0.00	point163	163	1,223.8	861.3	100.00	20.00	0.00	0	0		
									point164	164	1,223.8	917.8	100.00	20.00	0.00	0	0		
									point165	165	1,349.2	917.8	100.00	20.00	0.00	0	0		
									point166	166	1,349.2	861.3	100.00	20.00					
Barrier34	W	0.00	99.99	0.00				0.00	point167	167	1,324.4	989.5	100.00	20.00	0.00	0	0		
									point168	168	1,327.2	1,138.3	100.00	20.00	0.00	0	0		
									point169	169	1,371.2	1,137.5	100.00	20.00	0.00	0	0		
									point170	170	1,372.4	1,200.4	100.00	20.00	0.00	0	0		
									point171	171	1,267.9	1,202.3	100.00	20.00	0.00	0	0		
									point172	172	1,264.8	1,032.2	100.00	20.00	0.00	0	0		
									point173	173	1,237.6	1,032.7	100.00	20.00	0.00	0	0		
									point174	174	1,236.9	991.1	100.00	20.00					
Barrier35	W	0.00	99.99	0.00				0.00	point175	175	1,212.7	1,229.3	100.00	20.00	0.00	0	0		
									point176	176	1,324.4	1,227.9	100.00	20.00	0.00	0	0		
									point177	177	1,324.4	1,267.9	100.00	20.00	0.00	0	0		
									point178	178	1,208.6	1,269.3	100.00	20.00	0.00	0	0		
									point179	179	1,210.0	1,219.6	100.00	20.00					
Barrier36	W	0.00	99.99	0.00				0.00	point180	180	1,101.1	979.9	100.00	20.00	0.00	0	0		
									point181	181	1,098.4	1,081.8	100.00	20.00	0.00	0	0		
									point182	182	929.0	1,077.3	100.00	20.00	0.00	0	0		
									point183	183	931.7	975.3	100.00	20.00					
Barrier37	W	0.00	99.99	0.00				0.00	point185	185	2,276.6	610.3	100.00	15.00	0.00	0	0		
									point186	186	2,276.6	697.9	100.00	15.00	0.00	0	0		
									point187	187	2,642.7	697.9	100.00	15.00	0.00	0	0		
									point188	188	2,642.7	610.3	100.00	15.00					
Barrier38	W	0.00	99.99	0.00				0.00	point189	189	1,089.5	389.4	100.00	20.00	0.00	0	0		
									point190	190	1,087.3	242.8	100.00	20.00	0.00	0	0		



**INPUT: BARRIERS**

**9127**

									point191	191	1,128.8	242.2	100.00	20.00	0.00	0	0		
									point192	192	1,131.0	388.8	100.00	20.00					
Barrier39	W	0.00	99.99	0.00				0.00	point194	194	1,352.7	394.4	100.00	20.00	0.00	0	0		
									point195	195	1,446.4	392.7	100.00	20.00	0.00	0	0		
									point196	196	1,444.7	305.9	100.00	20.00	0.00	0	0		
									point197	197	1,350.9	307.6	100.00	20.00					
Barrier40	W	0.00	99.99	0.00				0.00	point198	198	1,260.6	285.0	100.00	20.00	0.00	0	0		
									point199	199	1,429.1	283.3	100.00	20.00	0.00	0	0		
									point200	200	1,432.4	92.4	100.00	20.00	0.00	0	0		
									point201	201	1,258.7	94.1	100.00	20.00					
Barrier41	W	0.00	99.99	0.00				0.00	point202	202	2,145.4	522.9	100.00	15.00	0.00	0	0		
									point203	203	2,147.6	398.2	100.00	15.00	0.00	0	0		
									point204	204	2,414.4	398.5	100.00	15.00	0.00	0	0		
									point205	205	2,414.4	523.2	100.00	15.00					
Barrier42	W	0.00	99.99	0.00				0.00	point206	206	2,160.8	277.8	100.00	20.00	0.00	0	0		
									point207	207	2,165.1	46.0	100.00	20.00	0.00	0	0		
									point208	208	2,285.4	43.8	100.00	20.00	0.00	0	0		
									point209	209	2,281.1	275.7	100.00	20.00					

**RESULTS: SOUND LEVELS**

9127

Dudek MG										5 August 2019 TNM 2.5 Calculated with TNM 2.5																							
<b>RESULTS: SOUND LEVELS</b>																																	
<b>PROJECT/CONTRACT:</b>										9127																							
<b>RUN:</b>										S M Blvd/O.Grove WeHo Cumltv 2019																							
<b>BARRIER DESIGN:</b>										INPUT HEIGHTS																							
<b>ATMOSPHERICS:</b>										68 deg F, 50% RH																							
<b>Receiver</b>																																	
<b>Name</b>										<b>No.</b>		<b>#DUs</b>		<b>Existing</b>		<b>No Barrier</b>		<b>With Barrier</b>															
												LAeq1h		LAeq1h		Increase over existing		Type		Calculated		Noise Reduction											
														Calculated		Crit'n		Calculated		Crit'n		Impact		LAeq1h		Calculated		Goal		Calculated			
																										minus		Goal					
												dBA		dBA		dBA		dB		dB				dBA		dB		dB		dB			
R1 / ST1 Proj Site on SMB										18		1		0.0		69.2		66		69.2		10		Snd Lvl		69.2		0.0		8		-8.0	
R2 /ST2 Resi n of Proj Site										20		1		0.0		44.5		66		44.5		10		----		44.5		0.0		8		-8.0	
R3 / ST3 Proj Site on N O.Grove Blvd										21		1		0.0		57.3		66		57.3		10		----		57.3		0.0		8		-8.0	
R4 / ST4 child car on N O.Grove Blvd										22		1		0.0		55.0		66		55.0		10		----		55.0		0.0		8		-8.0	
R5 / ST5 Resi N Ogden Dr n of SMB										23		1		0.0		55.3		66		55.3		10		----		55.3		0.0		8		-8.0	
R6 / ST6 Resi N Ogden Dr n of SMB										24		1		0.0		58.5		66		58.5		10		----		58.5		0.0		8		-8.0	
R7 Resi N Fairfax Ave n of SMB										25		1		0.0		63.5		66		63.5		10		----		63.5		0.0		8		-8.0	
R8 Res N Fairfax Ave s of SMB										26		1		0.0		66.6		66		66.6		10		Snd Lvl		66.6		0.0		8		-8.0	
R9 Resi N O.Grove Blvd s of SMB										27		1		0.0		54.2		66		54.2		10		----		54.2		0.0		8		-8.0	
R10 Resi N Ogden Dr s of SMB										28		1		0.0		56.3		66		56.3		10		----		56.3		0.0		8		-8.0	
R11 Resi N Genessee Ave n of SMB										29		1		0.0		57.9		66		57.9		10		----		57.9		0.0		8		-8.0	
R12 Resi N Genessee Ave s of SMB										33		1		0.0		57.1		66		57.1		10		----		57.1		0.0		8		-8.0	
<b>Dwelling Units</b>										<b># DUs</b>		<b>Noise Reduction</b>																					
												Min		Avg		Max																	
												dB		dB		dB																	
All Selected										12		0.0		0.0		0.0																	
All Impacted										2		0.0		0.0		0.0																	
All that meet NR Goal										0		0.0		0.0		0.0																	

Dudek MG				5 August 2019 TNM 2.5							
INPUT: ROADWAYS							Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA				
PROJECT/CONTRACT: 9127											
RUN: S M Blvd/OGrvWeHo Cum w Pr 2019											
Roadway Name	Width	Points Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
N Fairfax Ave s of Santa Monica Blvd	60.0	point1	1	1,196.5	55.6	100.00				Average	
		point2	2	1,196.5	547.7	100.00					
N Fairfax Ave n of Santa Monica Blvd	60.0	point3	3	1,195.7	613.6	100.00				Average	
		point4	4	1,162.7	1,852.9	100.00				Average	
		point5	5	1,160.1	1,979.6	100.00					
Santa Monica Blvd w. of N. Fairfax	55.0	point6	6	2.1	561.0	100.00				Average	
		point7	7	291.4	563.0	100.00				Average	
		point8	8	737.0	573.4	100.00				Average	
		point9	9	1,197.4	586.5	100.00					
N Orange Grove Ave s of St Mnca Blvd	38.0	point15	15	1,482.2	93.3	100.00				Average	
		point16	16	1,475.6	561.3	100.00					
N Orange Grove Ave n of St Mnca Blvd	38.0	point17	17	1,550.0	600.7	100.00				Average	
		point18	18	1,539.1	1,842.9	100.00					
N Ogden Ave s of Sta Mnca Blvd	38.0	point19	19	1,801.5	89.0	100.00				Average	
		point20	20	1,797.1	554.8	100.00					
N Ogden Ave n of Sta Mnca Blvd	34.0	point21	21	1,921.8	589.8	100.00				Average	
		point22	22	1,919.6	1,814.4	100.00					
N Genessee Ave s of St Mnca Blvd	38.0	point23	23	2,118.6	89.0	100.00				Average	
		point24	24	2,123.0	548.2	100.00					
N Genessee Ave n of St Mnca Blvd	34.0	point25	25	2,249.8	581.0	100.00				Average	
		point26	26	2,247.6	1,838.5	100.00					
Santa Monica Blvd Fairfax to OrngeGrv	55.0	point29	29	1,197.4	586.5	100.00				Average	
		point10	10	1,559.3	577.7	100.00					
Santa Monica Blvd OrngeGrv to Ogdon	55.0	point30	30	1,559.3	577.7	100.00				Average	
		point11	11	1,918.6	567.3	100.00					

**INPUT: ROADWAYS****9127**

Santa Monica Blvd Ogdon to Genesee	55.0	point31	31	1,918.6	567.3	100.00				Average	
		point12	12	2,250.1	565.6	100.00					
Santa Monica Blvd e of N Genesee Ave	55.0	point32	32	2,250.1	565.6	100.00				Average	
		point13	13	2,668.4	560.5	100.00				Average	
		point14	14	3,190.6	553.6	100.00					

INPUT: TRAFFIC FOR LAeq1h Volumes

9127

Dudek		5 August 2019										
MG		TNM 2.5										
INPUT: TRAFFIC FOR LAeq1h Volumes												
PROJECT/CONTRACT:		9127										
RUN:		S M Blvd/OGrvWeHo Cum w Pr 2019										
Roadway	Points											
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles	
			Autos		V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
N Fairfax Ave s of Santa Monica Blvd	point1	1	2829	35	58	35	29	35	0	0	0	0
	point2	2										
N Fairfax Ave n of Santa Monica Blvd	point3	3	2269	25	47	25	23	25	0	0	0	0
	point4	4	2269	25	47	25	23	25	0	0	0	0
	point5	5										
Santa Monica Blvd w. of N. Fairfax	point6	6	3459	30	71	30	36	30	0	0	0	0
	point7	7	3459	30	71	30	36	30	0	0	0	0
	point8	8	3459	30	71	30	36	30	0	0	0	0
	point9	9										
N Orange GroveAve s of St Mnca Blvd	point15	15	101	25	2	25	1	25	0	0	0	0
	point16	16										
N Orange GroveAve n of St Mnca Blvd	point17	17	145	25	3	25	1	25	0	0	0	0
	point18	18										
N Ogden Ave s of Sta Mnca Blvd	point19	19	181	25	4	25	2	25	0	0	0	0
	point20	20										
N Ogden Ave n of Sta Mnca Blvd	point21	21	246	25	5	25	3	25	0	0	0	0
	point22	22										
N Genessee Ave s of St Mnca Blvd	point23	23	193	25	4	25	2	25	0	0	0	0
	point24	24										
N Genessee Ave n of St Mnca Blvd	point25	25	220	25	5	25	2	25	0	0	0	0
	point26	26										
Santa Monica Blvd Fairfax to OrngeGrv	point29	29	3458	30	71	30	36	30	0	0	0	0
	point10	10										

**INPUT: TRAFFIC FOR LAeq1h Volumes****9127**

Santa Monica Blvd OrngeGrv to Ogdon	point30	30	3528	30	73	30	36	30	0	0	0	0
	point11	11										
Santa Monica Blvd Ogdon to Genesee	point31	31	3522	30	73	30	36	30	0	0	0	0
	point12	12										
Santa Monica Blvd e of N Genesee Ave	point32	32	3495	30	72	30	36	30	0	0	0	0
	point13	13	3495	30	72	30	36	30	0	0	0	0
	point14	14										

**INPUT: RECEIVERS**

**9127**

							<b>5 August 2019</b>					
<b>Dudek</b>												
<b>MG</b>												
<b>INPUT: RECEIVERS</b>												
<b>PROJECT/CONTRACT:</b>		<b>9127</b>										
<b>RUN:</b>		<b>S M Blvd/OGrvWeHo Cum w Pr 2019</b>										
<b>Receiver</b>												
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.	
			X	Y	Z		Existing LAeq1h	Impact LAeq1h	Criteria Sub'l	NR Goal		
			ft	ft	ft	ft	dBA	dBA	dB	dB		
R1 / ST1 Proj Site on SMB	18	1	1,757.9	613.1	100.00	5.00	0.00	66	10.0	8.0	Y	
R2 /ST2 Resi n of Proj Site	20	1	1,794.5	782.1	100.00	5.00	0.00	66	10.0	8.0	Y	
R3 / ST3 Proj Site on N O.Grove Blvd	21	1	1,572.0	796.3	100.00	5.00	0.00	66	10.0	8.0	Y	
R4 / ST4 child car on N O.Grove Blvd	22	1	1,579.0	923.0	100.00	5.00	0.00	66	10.0	8.0	Y	
R5 / ST5 Resi N Ogden Dr n of SMB	23	1	1,871.6	869.2	100.00	5.00	0.00	66	10.0	8.0	Y	
R6 / ST6 Resi N Ogden Dr n of SMB	24	1	1,944.6	820.6	100.00	5.00	0.00	66	10.0	8.0	Y	
R7 Resi N Fairfax Ave n of SMB	25	1	1,117.4	1,119.3	100.00	5.00	0.00	66	10.0	8.0	Y	
R8 Res N Fairfax Ave s of SMB	26	1	1,132.7	227.5	100.00	5.00	0.00	66	10.0	8.0	Y	
R9 Resi N O.Grove Blvd s of SMB	27	1	1,510.7	217.5	100.00	5.00	0.00	66	10.0	8.0	Y	
R10 Resi N Ogden Dr s of SMB	28	1	1,835.2	266.9	100.00	5.00	0.00	66	10.0	8.0	Y	
R11 Resi N Genessee Ave n of SMB	29	1	2,221.1	904.9	100.00	5.00	0.00	66	10.0	8.0	Y	
R12 Resi N Genessee Ave s of SMB	33	1	2,148.2	231.9	100.00	5.00	0.00	66	10.0	8.0	Y	

Dudek					5 August 2019														
MG					TNM 2.5														
INPUT: BARRIERS																			
PROJECT/CONTRACT: 9127																			
RUN: S M Blvd/OGrvWeHo Cum w Pr 2019																			

Barrier										Points									
Name	Type	Height		If Wall	If Berm		Run:Rise	Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment			On Struct?	Important Reflec- tions?
		Min	Max	\$ per Unit Area	\$ per Unit Vol.	Top Width	ft:ft	\$ per Unit Length			X	Y	Z	at Point	Seg Ht	Perturbs #Up	#Dn		
		ft	ft	\$/sq ft	\$/cu yd	ft	ft:ft	\$/ft			ft	ft	ft	ft	ft				
Barrier1	W	0.00	99.99	0.00				0.00	point1	1	1,579.2	860.8	100.00	20.00	0.00	0	0		
									point2	2	1,680.4	860.8	100.00	20.00	0.00	0	0		
									point3	3	1,680.4	873.2	100.00	20.00	0.00	0	0		
									point4	4	1,714.2	873.2	100.00	20.00	0.00	0	0		
									point5	5	1,714.2	898.0	100.00	20.00	0.00	0	0		
									point6	6	1,655.6	898.0	100.00	20.00	0.00	0	0		
									point7	7	1,655.6	900.1	100.00	20.00	0.00	0	0		
									point8	8	1,599.2	900.1	100.00	20.00	0.00	0	0		
									point9	9	1,599.2	877.3	100.00	20.00	0.00	0	0		
									point10	10	1,579.2	877.3	100.00	20.00					
Barrier2	W	0.00	99.99	0.00				0.00	point11	11	1,731.4	863.2	100.00	20.00	0.00	0	0		
									point12	12	1,865.1	861.5	100.00	20.00	0.00	0	0		
									point13	13	1,865.7	907.7	100.00	20.00	0.00	0	0		
									point14	14	1,732.0	909.4	100.00	20.00					
Barrier3	W	0.00	99.99	0.00				0.00	point15	15	1,732.1	915.9	100.00	20.00	0.00	0	0		
									point16	16	1,867.8	915.2	100.00	20.00	0.00	0	0		
									point17	17	1,868.0	960.0	100.00	20.00	0.00	0	0		
									point18	18	1,732.3	960.7	100.00	20.00					
Barrier4	W	0.00	99.99	0.00				0.00	point19	19	1,772.7	610.4	100.00	15.00	0.00	0	0		
									point20	20	1,878.8	609.1	100.00	15.00	0.00	0	0		
									point21	21	1,881.8	760.9	100.00	15.00	0.00	0	0		
									point22	22	1,775.7	760.9	100.00	15.00					
Barrier5	W	0.00	99.99	0.00				0.00	point23	23	1,827.2	773.3	100.00	20.00	0.00	0	0		
									point24	24	1,865.8	773.3	100.00	20.00	0.00	0	0		
									point25	25	1,865.8	807.1	100.00	20.00	0.00	0	0		
									point26	26	1,827.2	807.1	100.00	20.00					
Barrier6	W	0.00	99.99	0.00				0.00	point27	27	1,732.1	966.2	100.00	20.00	0.00	0	0		
									point28	28	1,866.5	966.2	100.00	20.00	0.00	0	0		
									point29	29	1,866.5	1,060.6	100.00	20.00	0.00	0	0		
									point30	30	1,732.1	1,060.6	100.00	20.00					
Barrier7	W	0.00	99.99	0.00				0.00	point31	31	1,940.6	765.7	100.00	20.00	0.00	0	0		
									point32	32	1,977.8	765.4	100.00	20.00	0.00	0	0		
									point33	33	1,978.2	807.8	100.00	20.00	0.00	0	0		
									point34	34	1,941.0	808.1	100.00	20.00					
Barrier8	W	0.00	99.99	0.00				0.00	point36	36	1,951.3	815.2	100.00	20.00	0.00	0	0		



INPUT: BARRIERS

9127

									point37	37	2,061.9	813.6	100.00	20.00	0.00	0	0		
									point38	38	2,062.6	844.2	100.00	20.00	0.00	0	0		
Barrier9	W	0.00	99.99	0.00			0.00		point39	39	1,951.7	845.8	100.00	20.00					
									point40	40	1,953.7	903.1	100.00	20.00	0.00	0	0		
									point41	41	1,953.4	863.2	100.00	20.00	0.00	0	0		
									point42	42	2,083.6	862.1	100.00	20.00	0.00	0	0		
									point43	43	2,083.9	902.0	100.00	20.00					
Barrier10	W	0.00	99.99	0.00			0.00		point45	45	1,954.1	917.6	100.00	20.00	0.00	0	0		
									point46	46	2,043.3	916.6	100.00	20.00	0.00	0	0		
									point47	47	2,043.8	957.6	100.00	20.00	0.00	0	0		
									point48	48	1,973.4	958.4	100.00	20.00	0.00	0	0		
									point49	49	1,973.3	949.3	100.00	20.00	0.00	0	0		
									point50	50	1,954.5	949.5	100.00	20.00					
Barrier11	W	0.00	99.99	0.00			0.00		point52	52	1,864.9	814.0	100.00	20.00	0.00	0	0		
									point53	53	1,865.4	852.9	100.00	20.00	0.00	0	0		
									point54	54	1,828.9	853.2	100.00	20.00					
Barrier12	W	0.00	99.99	0.00			0.00		point56	56	1,736.8	816.1	100.00	20.00	0.00	0	0		
									point57	57	1,819.5	815.0	100.00	20.00	0.00	0	0		
									point58	58	1,820.3	848.0	100.00	20.00	0.00	0	0		
									point59	59	1,736.6	848.0	100.00	20.00					
Barrier13	W	0.00	99.99	0.00			0.00		point60	60	1,622.5	611.7	100.00	15.00	0.00	0	0		
									point61	61	1,676.0	609.5	100.00	15.00	0.00	0	0		
									point62	62	1,673.9	692.0	100.00	15.00	0.00	0	0		
									point63	63	1,619.2	692.0	100.00	15.00					
Barrier14	W	0.00	99.99	0.00			0.00		point64	64	1,676.6	611.1	100.00	15.00	0.00	0	0		
									point65	65	1,724.7	610.5	100.00	15.00	0.00	0	0		
									point66	66	1,723.1	760.3	100.00	15.00	0.00	0	0		
									point67	67	1,622.5	759.8	100.00	15.00	0.00	0	0		
									point68	68	1,623.0	709.5	100.00	15.00	0.00	0	0		
									point69	69	1,673.3	709.5	100.00	15.00					
Barrier15	W	0.00	99.99	0.00			0.00		point70	70	1,621.4	731.4	100.00	20.00	0.00	0	0		
									point71	71	1,620.8	761.5	100.00	20.00	0.00	0	0		
									point72	72	1,569.4	761.5	100.00	20.00	0.00	0	0		
									point73	73	1,571.1	731.4	100.00	20.00					
Barrier16	W	0.00	99.99	0.00			0.00		point74	74	1,946.7	609.2	100.00	15.00	0.00	0	0		
									point75	75	2,093.8	607.1	100.00	15.00	0.00	0	0		
									point76	76	2,094.7	675.9	100.00	15.00	0.00	0	0		
									point77	77	2,047.8	676.6	100.00	15.00	0.00	0	0		
									point78	78	2,047.3	643.1	100.00	15.00	0.00	0	0		
									point79	79	1,948.6	643.3	100.00	15.00					
Barrier17	W	0.00	99.99	0.00			0.00		point81	81	1,468.0	629.3	100.00	15.00	0.00	0	0		
									point82	82	1,508.7	628.9	100.00	15.00	0.00	0	0		
									point83	83	1,507.5	680.5	100.00	15.00	0.00	0	0		
									point84	84	1,465.8	681.0	100.00	15.00					
Barrier18	W	0.00	99.99	0.00			0.00		point85	85	1,448.9	727.8	100.00	20.00	0.00	0	0		
									point86	86	1,509.2	727.8	100.00	20.00	0.00	0	0		
									point87	87	1,510.5	830.3	100.00	20.00	0.00	0	0		
									point88	88	1,471.4	830.3	100.00	20.00	0.00	0	0		
									point89	89	1,471.4	815.5	100.00	20.00	0.00	0	0		

INPUT: BARRIERS

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									point90	90	1,447.6	815.5	100.00	20.00				
Barrier19	W	0.00	99.99	0.00			0.00	point91	91	1,350.3	841.5	100.00	20.00	0.00	0	0		
								point92	92	1,507.4	840.7	100.00	20.00	0.00	0	0		
								point93	93	1,508.2	981.3	100.00	20.00	0.00	0	0		
								point94	94	1,406.4	981.8	100.00	20.00	0.00	0	0		
								point95	95	1,406.5	1,011.6	100.00	20.00	0.00	0	0		
								point96	96	1,351.3	1,011.8	100.00	20.00					
Barrier20	W	0.00	99.99	0.00			0.00	point97	97	1,572.9	1,017.9	100.00	20.00	0.00	0	0		
								point98	98	1,709.3	1,018.6	100.00	20.00	0.00	0	0		
								point99	99	1,708.8	1,113.0	100.00	20.00	0.00	0	0		
								point100	100	1,572.4	1,112.3	100.00	20.00					
Barrier21	W	0.00	99.99	0.00			0.00	point101	101	1,500.2	532.9	100.00	15.00	0.00	0	0		
								point102	102	1,773.6	532.9	100.00	15.00	0.00	0	0		
								point103	103	1,773.6	408.9	100.00	15.00	0.00	0	0		
								point104	104	1,664.8	408.9	100.00	15.00	0.00	0	0		
								point105	105	1,664.8	459.9	100.00	15.00	0.00	0	0		
								point106	106	1,500.2	459.9	100.00	15.00					
Barrier22	W	0.00	99.99	0.00			0.00	point108	108	1,930.5	531.7	100.00	15.00	0.00	0	0		
								point109	109	2,094.5	530.3	100.00	15.00	0.00	0	0		
								point110	110	2,093.9	462.7	100.00	15.00	0.00	0	0		
								point111	111	1,960.8	463.9	100.00	15.00	0.00	0	0		
								point112	112	1,960.4	406.3	100.00	15.00	0.00	0	0		
								point113	113	1,929.5	406.5	100.00	15.00					
Barrier23	W	0.00	99.99	0.00			0.00	point115	115	2,071.9	389.2	100.00	20.00	0.00	0	0		
								point116	116	2,075.8	145.0	100.00	20.00	0.00	0	0		
								point117	117	1,852.2	143.7	100.00	20.00	0.00	0	0		
								point118	118	1,848.4	385.6	100.00	20.00					
Barrier24	W	0.00	99.99	0.00			0.00	point119	119	1,643.6	389.3	100.00	20.00	0.00	0	0		
								point120	120	1,759.3	388.0	100.00	20.00	0.00	0	0		
								point121	121	1,760.7	97.3	100.00	20.00	0.00	0	0		
								point122	122	1,649.1	98.6	100.00	20.00					
Barrier25	W	0.00	99.99	0.00			0.00	point123	123	1,519.6	106.9	100.00	20.00	0.00	0	0		
								point124	124	1,628.3	105.9	100.00	20.00	0.00	0	0		
								point125	125	1,630.1	295.5	100.00	20.00	0.00	0	0		
								point126	126	1,603.6	295.8	100.00	20.00	0.00	0	0		
								point127	127	1,604.1	349.2	100.00	20.00	0.00	0	0		
								point128	128	1,579.2	349.4	100.00	20.00	0.00	0	0		
								point129	129	1,579.5	382.5	100.00	20.00	0.00	0	0		
								point130	130	1,544.4	382.8	100.00	20.00	0.00	0	0		
								point131	131	1,544.0	348.0	100.00	20.00	0.00	0	0		
								point132	132	1,521.9	348.2	100.00	20.00					
Barrier26	W	0.00	99.99	0.00			0.00	point133	133	1,953.8	970.7	100.00	20.00	0.00	0	0		
								point134	134	2,087.4	969.0	100.00	20.00	0.00	0	0		
								point135	135	2,092.4	1,352.6	100.00	20.00	0.00	0	0		
								point136	136	1,958.8	1,354.4	100.00	20.00					
Barrier27	W	0.00	99.99	0.00			0.00	point137	137	2,125.0	740.4	100.00	20.00	0.00	0	0		
								point138	138	2,215.2	740.4	100.00	20.00	0.00	0	0		
								point139	139	2,215.2	920.9	100.00	20.00	0.00	0	0		
								point140	140	2,125.0	920.9	100.00	20.00					

INPUT: BARRIERS

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Barrier28	W	0.00	99.99	0.00				0.00	point141	141	2,125.0	933.0	100.00	20.00	0.00	0	0		
									point142	142	2,206.6	933.0	100.00	20.00	0.00	0	0		
									point143	143	2,206.6	1,408.3	100.00	20.00	0.00	0	0		
									point144	144	2,125.0	1,408.3	100.00	20.00					
Barrier29	W	0.00	99.99	0.00				0.00	point145	145	1,449.8	475.1	100.00	15.00	0.00	0	0		
									point146	146	1,449.3	542.9	100.00	15.00	0.00	0	0		
									point147	147	1,251.3	544.6	100.00	15.00	0.00	0	0		
									point148	148	1,250.7	475.7	100.00	15.00					
Barrier30	W	0.00	99.99	0.00				0.00	point149	149	1,135.4	413.3	100.00	15.00	0.00	0	0		
									point150	150	1,134.1	528.3	100.00	15.00	0.00	0	0		
									point151	151	836.7	524.9	100.00	15.00	0.00	0	0		
									point152	152	837.9	409.9	100.00	15.00					
Barrier31	W	0.00	99.99	0.00				0.00	point153	153	1,141.1	624.3	100.00	15.00	0.00	0	0		
									point154	154	1,141.1	766.2	100.00	15.00	0.00	0	0		
									point155	155	876.5	766.2	100.00	15.00	0.00	0	0		
									point156	156	876.5	672.5	100.00	15.00	0.00	0	0		
									point157	157	977.1	672.5	100.00	15.00	0.00	0	0		
									point158	158	977.1	624.3	100.00	15.00					
Barrier32	W	0.00	99.99	0.00				0.00	point159	159	1,136.9	788.3	100.00	20.00	0.00	0	0		
									point160	160	1,138.3	922.0	100.00	20.00	0.00	0	0		
									point161	161	1,030.9	923.1	100.00	20.00	0.00	0	0		
									point162	162	1,029.5	789.4	100.00	20.00					
Barrier33	W	0.00	99.99	0.00				0.00	point163	163	1,223.8	861.3	100.00	20.00	0.00	0	0		
									point164	164	1,223.8	917.8	100.00	20.00	0.00	0	0		
									point165	165	1,349.2	917.8	100.00	20.00	0.00	0	0		
									point166	166	1,349.2	861.3	100.00	20.00					
Barrier34	W	0.00	99.99	0.00				0.00	point167	167	1,324.4	989.5	100.00	20.00	0.00	0	0		
									point168	168	1,327.2	1,138.3	100.00	20.00	0.00	0	0		
									point169	169	1,371.2	1,137.5	100.00	20.00	0.00	0	0		
									point170	170	1,372.4	1,200.4	100.00	20.00	0.00	0	0		
									point171	171	1,267.9	1,202.3	100.00	20.00	0.00	0	0		
									point172	172	1,264.8	1,032.2	100.00	20.00	0.00	0	0		
									point173	173	1,237.6	1,032.7	100.00	20.00	0.00	0	0		
									point174	174	1,236.9	991.1	100.00	20.00					
Barrier35	W	0.00	99.99	0.00				0.00	point175	175	1,212.7	1,229.3	100.00	20.00	0.00	0	0		
									point176	176	1,324.4	1,227.9	100.00	20.00	0.00	0	0		
									point177	177	1,324.4	1,267.9	100.00	20.00	0.00	0	0		
									point178	178	1,208.6	1,269.3	100.00	20.00	0.00	0	0		
									point179	179	1,210.0	1,219.6	100.00	20.00					
Barrier36	W	0.00	99.99	0.00				0.00	point180	180	1,101.1	979.9	100.00	20.00	0.00	0	0		
									point181	181	1,098.4	1,081.8	100.00	20.00	0.00	0	0		
									point182	182	929.0	1,077.3	100.00	20.00	0.00	0	0		
									point183	183	931.7	975.3	100.00	20.00					
Barrier37	W	0.00	99.99	0.00				0.00	point185	185	2,276.6	610.3	100.00	15.00	0.00	0	0		
									point186	186	2,276.6	697.9	100.00	15.00	0.00	0	0		
									point187	187	2,642.7	697.9	100.00	15.00	0.00	0	0		
									point188	188	2,642.7	610.3	100.00	15.00					
Barrier38	W	0.00	99.99	0.00				0.00	point189	189	1,089.5	389.4	100.00	20.00	0.00	0	0		
									point190	190	1,087.3	242.8	100.00	20.00	0.00	0	0		

**INPUT: BARRIERS**

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									point191	191	1,128.8	242.2	100.00	20.00	0.00	0	0		
									point192	192	1,131.0	388.8	100.00	20.00					
Barrier39	W	0.00	99.99	0.00				0.00	point194	194	1,352.7	394.4	100.00	20.00	0.00	0	0		
									point195	195	1,446.4	392.7	100.00	20.00	0.00	0	0		
									point196	196	1,444.7	305.9	100.00	20.00	0.00	0	0		
									point197	197	1,350.9	307.6	100.00	20.00					
Barrier40	W	0.00	99.99	0.00				0.00	point198	198	1,260.6	285.0	100.00	20.00	0.00	0	0		
									point199	199	1,429.1	283.3	100.00	20.00	0.00	0	0		
									point200	200	1,432.4	92.4	100.00	20.00	0.00	0	0		
									point201	201	1,258.7	94.1	100.00	20.00					
Barrier41	W	0.00	99.99	0.00				0.00	point202	202	2,145.4	522.9	100.00	15.00	0.00	0	0		
									point203	203	2,147.6	398.2	100.00	15.00	0.00	0	0		
									point204	204	2,414.4	398.5	100.00	15.00	0.00	0	0		
									point205	205	2,414.4	523.2	100.00	15.00					
Barrier42	W	0.00	99.99	0.00				0.00	point206	206	2,160.8	277.8	100.00	20.00	0.00	0	0		
									point207	207	2,165.1	46.0	100.00	20.00	0.00	0	0		
									point208	208	2,285.4	43.8	100.00	20.00	0.00	0	0		
									point209	209	2,281.1	275.7	100.00	20.00					

**RESULTS: SOUND LEVELS**

9127

Dudek MG										5 August 2019 TNM 2.5 Calculated with TNM 2.5			
<b>RESULTS: SOUND LEVELS</b>													
<b>PROJECT/CONTRACT:</b>		9127											
<b>RUN:</b>		S M Blvd/OGrvWeHo Cum w Pr 2019											
<b>BARRIER DESIGN:</b>		INPUT HEIGHTS								Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.			
<b>ATMOSPHERICS:</b>		68 deg F, 50% RH											
<b>Receiver</b>													
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing LAeq1h</b>	<b>No Barrier LAeq1h</b>	<b>Increase over existing</b>			<b>Type</b>	<b>With Barrier</b>	<b>Noise Reduction</b>			
				<b>Calculated</b>	<b>Crit'n</b>	<b>Calculated</b>	<b>Crit'n</b>	<b>Impact</b>	<b>Calculated LAeq1h</b>	<b>Calculated</b>	<b>Goal</b>	<b>Calculated minus Goal</b>	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
R1 / ST1 Proj Site on SMB	18	1	0.0	69.2	66	69.2	10	Snd Lvl	69.2	0.0	8	-8.0	
R2 /ST2 Resi n of Proj Site	20	1	0.0	44.6	66	44.6	10	----	44.6	0.0	8	-8.0	
R3 / ST3 Proj Site on N O.Grove Blvd	21	1	0.0	57.7	66	57.7	10	----	57.7	0.0	8	-8.0	
R4 / ST4 child car on N O.Grove Blvd	22	1	0.0	55.4	66	55.4	10	----	55.4	0.0	8	-8.0	
R5 / ST5 Resi N Ogden Dr n of SMB	23	1	0.0	55.7	66	55.7	10	----	55.7	0.0	8	-8.0	
R6 / ST6 Resi N Ogden Dr n of SMB	24	1	0.0	59.0	66	59.0	10	----	59.0	0.0	8	-8.0	
R7 Resi N Fairfax Ave n of SMB	25	1	0.0	63.6	66	63.6	10	----	63.6	0.0	8	-8.0	
R8 Res N Fairfax Ave s of SMB	26	1	0.0	67.3	66	67.3	10	Snd Lvl	67.3	0.0	8	-8.0	
R9 Resi N O.Grove Blvd s of SMB	27	1	0.0	54.3	66	54.3	10	----	54.3	0.0	8	-8.0	
R10 Resi N Ogden Dr s of SMB	28	1	0.0	56.3	66	56.3	10	----	56.3	0.0	8	-8.0	
R11 Resi N Genessee Ave n of SMB	29	1	0.0	57.9	66	57.9	10	----	57.9	0.0	8	-8.0	
R12 Resi N Genessee Ave s of SMB	33	1	0.0	57.1	66	57.1	10	----	57.1	0.0	8	-8.0	
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>										
			<b>Min</b>	<b>Avg</b>	<b>Max</b>								
			<b>dB</b>	<b>dB</b>	<b>dB</b>								
All Selected		12	0.0	0.0	0.0								
All Impacted		2	0.0	0.0	0.0								
All that meet NR Goal		0	0.0	0.0	0.0								