City of Yorba Linda In-N-Out Burger Restaurant at 18181 Imperial Highway Draft Initial Study/Mitigated Negative Declaration

> Appendix G: Noise Study



Yorba Linda In-N-Out Noise Study

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EXECUTIVE SUMMARY

This Noise Study assesses and discusses the potential noise and vibration impacts that may occur with construction and operation of the In-N-Out Burger restaurant (Project) proposed in the City of Yorba Linda (City). The analysis describes the existing environment in the Project area; estimates future noise and vibration levels at surrounding land uses resulting from construction and operation of the Project; and identified the potential for significant impacts. The study summarizes the potential for the Project to conflict with applicable noise and vibration regulations, standards, and thresholds. The findings of the analyses are as follows:

- Construction activities would potentially result in short-term and temporary noise impacts to nearby noise-sensitive receptors due to on-site construction equipment and activities. Implementation of noise-attenuation techniques and placement of the construction-staging area away from noise-sensitive sites would lower construction noise levels. Noise associated with construction activities would be reduced to the degree reasonably and technically feasible through proposed recommended measures and compliance with locally adopted and enforced noise ordinances. Given that construction activities would be required to comply with the City's allowable hours and would be temporary, construction-related noise would not be significant.
- Construction of the Project would generate sporadic, temporary vibration effects adjacent to the Project area but would not be expected to exceed the significance thresholds.
- Operation of the Project would generate noise from Project-related traffic or from on-site sources (drive-through queuing, parking, amplified speech emanating from the speaker and trash compactor) that would not exceed the significance thresholds.
- Noise associated with project and cumulative operational roadway noise sources would not be significant.

INTRODUCTION

This report presents the noise and vibration analysis for the proposed In-N-Out Burger restaurant Project (Project) in the City of Yorba Linda. The noise report analyzes short-term noise and ground-borne vibration impacts associated with the Project. The report also discusses the applicable federal, State, and local noise and vibration regulations; the applicable noise and vibration thresholds; the methodology used to analyze potential noise and vibration impacts; and the modeled roadway noise.

Project Description

The 1.43 acre Project site is located at 18181 Imperial Highway, as shown in **Figure 1: Project Site Location**. The Project site is currently developed with the Yorba Linda Public Library, which would be relocated to the southeast corner of Lakeview Avenue and Lemon Drive. The existing structures and parking lots on the remaining two parcels are currently owned by the City of Yorba Linda and will be demolished prior to, and without respect to the approval of, the commencement of this project as part of the approved Yorba Linda Town Center project, which was analyzed within the Yorba Linda Town Center Addendum to the Certified EIR for the Yorba Linda Town Center Project Library and Arts Center. The Project will include construction of a new 3,974-square-foot In-N-Out restaurant with a drive-through lane. All existing driveways currently serving the Yorba Linda Public Library. The restaurant would provide seating capacity of 134 (84 seats indoor, 68 seats outdoor), a 30 car drive-thru queuing lane, landscaping, and parking spaces for up to 49 vehicles. During the lunch (12:00 PM – 2:00 PM) and dinner (5:00 PM – 7:00 PM) peak periods, associates would monitor the parking lot to assure that traffic is always moving smoothly and not blocking parking spaces and/or the drive-thru lane by clearing ingress and egress drive aisles. The proposed Project is anticipated to be constructed and fully operational by Year 2021.

NOISE DESCRIPTORS

Fundamentals of Sound

Because the human ear does not respond uniformly to sounds at all frequencies, sound-pressure level alone is not a reliable indicator of loudness. For example, the human ear is less sensitive to low and high frequencies than to the medium frequencies that more closely correspond to human speech. In response to the human ear's sensitivity to certain sound frequencies, the A-weighted noise level, referenced in units of dB(A), was developed to better correspond with people's subjective judgment of sound levels. To support assessing a community reaction to noise, scales have been developed that average sound-pressure levels over time and quantify the result in terms of a single numerical descriptor. Several scales

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Tebo Environmental Consulting, Inc. Yorba Linda Town Center Addendum to the Certified EIR for the Yorba Linda Town Center Project Library and Arts Center, accessed April 2020, http://yorbalinda.granicus.com/MetaViewer.php?view_id=4&clip_id=924&meta_id=112867

have been developed that address community noise levels. The equivalent sound level (Leq) is the average A-weighted sound level measured over a given time interval. Leq can be measured over any period but is typically measured for 1-minute, 15-minute, 1-hour, or 24-hour periods.

Table 1: Noise Descriptors identifies various noise descriptors developed to measure sound levels over different periods of time.

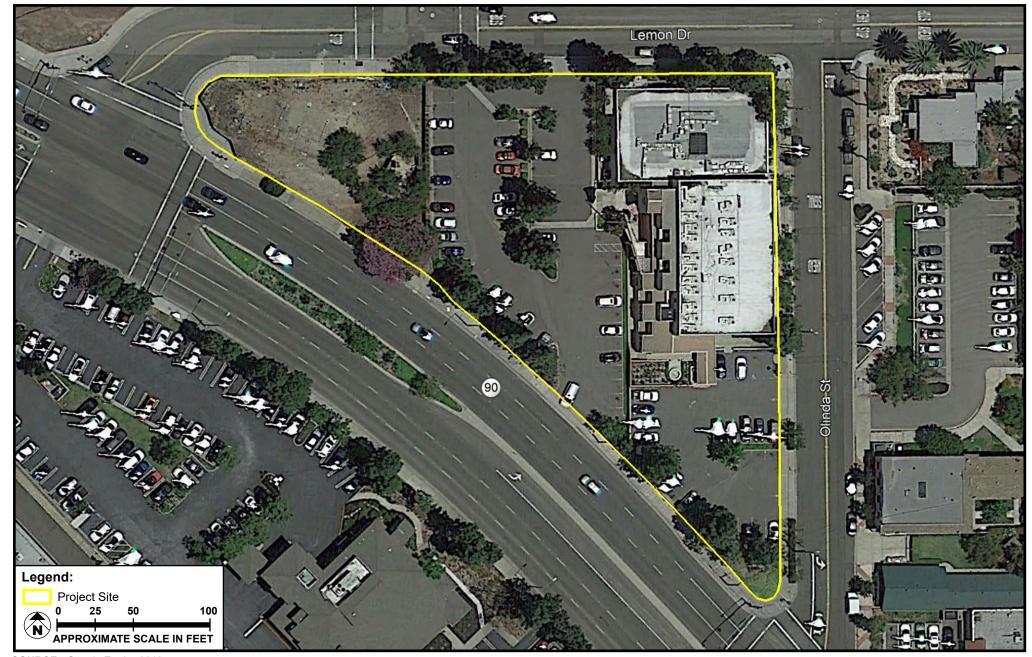


FIGURE 1



Table 1 Noise Descriptors

Term	Definition
Decibel (dB)	The unit for measuring the volume of sound equal to 10 times the logarithm (base 10) of the ratio of the pressure of a measure sound to a reference pressure.
A-weighted decibel (dB[A])	A sound measurement scale that adjusts the pressure of individual frequencies according to human sensitivities. The scale accounts for the fact that the region of highest sensitivity for the human ear is between 2,000 and 4,000 cycles per second (hertz).
Hertz (Hz)	The frequency of the pressure vibration, which is measured in cycles per second.
Kilo hertz (kHz)	One thousand cycles per second.
Equivalent sound level (Leq)	The sound level containing the same total energy as a time varying signal over a given time period. The Leq is the value that expresses the time averaged total energy of a fluctuating sound level. Leq can be measured over any time period, but is typically measured for 1-minute, 15-minute, 1-hour, or 24-hour periods.
Community noise equivalent level (CNEL)	A rating of community noise exposure to all sources of sound that differentiates between daytime, evening, and nighttime noise exposure. These adjustments add 5 dB(A) for the evening, 7:00 PM to 10:00 PM, and add 10 dB(A) for the night, 10:00 PM to 7:00 AM. The 5 and 10 dB penalties are applied to account for increased noise sensitivity during the evening and nighttime hours. The logarithmic effect of adding these penalties to the 1-hour Leq measurements typically results in a CNEL measurement that is within approximately 3 dB(A) of the peak-hour Leq. ^a
Nighttime (Lnight)	Lnight is the average noise exposure during the hourly periods from 10:00 PM to 7:00 AM.
Sound pressure level	The sound pressure is the force of sound on a surface area perpendicular to the direction of the sound. The sound pressure level is expressed in dB.
Ambient noise	The level of noise that is all-encompassing within a given environment, being usually a composite of sounds from many and varied sources near to and far from the observer. No specific source is identified in the ambient environment.

^a California Department of Transportation, Technical Noise Supplement; A Technical Supplement to the Traffic Noise Analysis Protocol (Sacramento, California: November 2009), pp. N51–N54.

A doubling of sound energy results in a 3 dB(A) increase in sound, which means that a doubling of sound wave energy (e.g., doubling the volume of traffic on a roadway) would result in a barely perceptible change in sound level. In general, changes in a noise level of less than 3 dB(A) are not noticed by the human ear.² Changes from 3 to 5 dB(A) may be noticed by some individuals who are extremely sensitive to changes in noise. An increase of greater than 5 dB(A) is readily noticeable, while the human ear perceives a 10 dB(A) increase in sound level to be a doubling of sound volume.

Noise sources can generally be categorized into two types: (1) point sources, such as stationary equipment; and (2) line sources, such as a roadway. Sound generated by a point source typically diminishes (attenuates) at a rate of 6 dB(A) for each doubling of distance from the source to the receptor at acoustically hard sites, and at a rate of 7.5 dB(A) at acoustically soft sites. A hard, or reflective, site consists of asphalt, concrete, or very hard-packed soil, which does not provide any excess ground-effect attenuation. An acoustically soft or absorptive site is characteristic of normal earth and most ground with vegetation. As an example, a 60 dB(A) noise level measured at 50 feet from a point source at an acoustically hard site would be 54 dB(A) at 100 feet from the source and would be 48 dB(A) at 200 feet from the source. Noise from the same point source at an acoustically soft site would be 52.5 dB(A) at 100 feet and 45 dB(A) at 200 feet from the source. Sound generated by a line source typically attenuates at a rate of 3 dB(A) and 4.5 dB(A) per doubling of distance from the source to the receptor for hard and soft sites, respectively. Noise levels generated by a variety of activities are shown in Figure 2: Common Noise Levels. Man-made or natural barriers can also attenuate sound levels.

Fundamentals of Vibration

Vibration is commonly defined as an oscillatory motion through a solid medium in which the motion's amplitude can be described in terms of displacement, velocity, or acceleration. The peak particle velocity (PPV) or the root-mean-square (RMS) velocity is usually used to describe vibration amplitudes. PPV is defined as the maximum instantaneous peak of the vibration signal, while RMS is defined as the square root of the average of the squared amplitude of the signal. PPV is typically used for evaluating potential building damage, whereas RMS is typically more suitable for evaluating human response to ground-borne vibration. The RMS vibration velocity level can be presented in inches per second (in/sec) or in VdB (a decibel unit referenced to 1 microinch per second). Commonly, ground-borne vibration generated by man-

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² US Department of Transportation, Federal Highway Administration, *Fundamentals and Abatement of Highway Traffic Noise* (Springfield, VA: Author, September 1980), 81.

³ US Department of Transportation, Fundamentals and Abatement (September 1980), 97.

⁴ US Department of Transportation, Fundamentals and Abatement (September 1980), 97.

US Department of Housing and Urban Development, Office of Community Planning and Development, *The Noise Guidebook (n.d.)*, 21–23.

made activities (i.e., road traffic, construction activity) attenuates rapidly with distance from the source of the vibration.

The vibration velocity level threshold of perception for humans is approximately 65 VdB. A vibration velocity of 75 VdB is the approximate dividing line between barely perceptible and distinctly perceptible levels for many people. Most perceptible indoor vibration is caused by sources within buildings, such as the operation of mechanical equipment, the movement of people, or the slamming of doors. Typical outdoor sources of perceptible ground-borne vibration are construction equipment, steel-wheeled trains, and traffic on rough roads. If a roadway is smooth, the ground-borne vibration from traffic is barely perceptible. The range of interest is from approximately 50 VdB, which is the typical background vibration velocity, to 100 VdB, which is the general threshold where minor damage can occur in fragile buildings.

NOISE STANDARDS

State of California Noise Standards

With regard to community noise exposure, The State of California Office of Planning and Research has published recommended guidelines for land use compatibility. These guidelines rate land use compatibility in terms of being *normally acceptable*, *normally unacceptable*, and *clearly unacceptable*. Each jurisdiction is required to consider these guidelines when developing a General Plan Noise Element and when determining acceptable noise levels within its community. These guidelines are representative of various land uses that include residential, commercial/mixed-use, industrial, and public facilities. **Figure 3: Land Use Compatibility to Noise** identifies the acceptable limit of noise exposure for various land use categories within the County. Noise exposure for single-family uses is "normally acceptable" when the CNEL at exterior residential locations is equal to or below 60 dB(A); "conditionally acceptable" when the CNEL is between 55 to 70 dB(A); and "normally unacceptable" when the CNEL exceeds 70 dB(A). These guidelines apply to noise sources such as vehicular traffic, aircraft, and rail movements.

In addition, the California Commission of Housing and Community Development officially adopted interior noise standards in 1974. In 1988, the Building Standards Commission approved revisions to the standards (Title 24, Part 2, California Code of Regulations). As revised, Title 24 establishes an interior noise standard of 45 dB(A) CNEL for residential space.

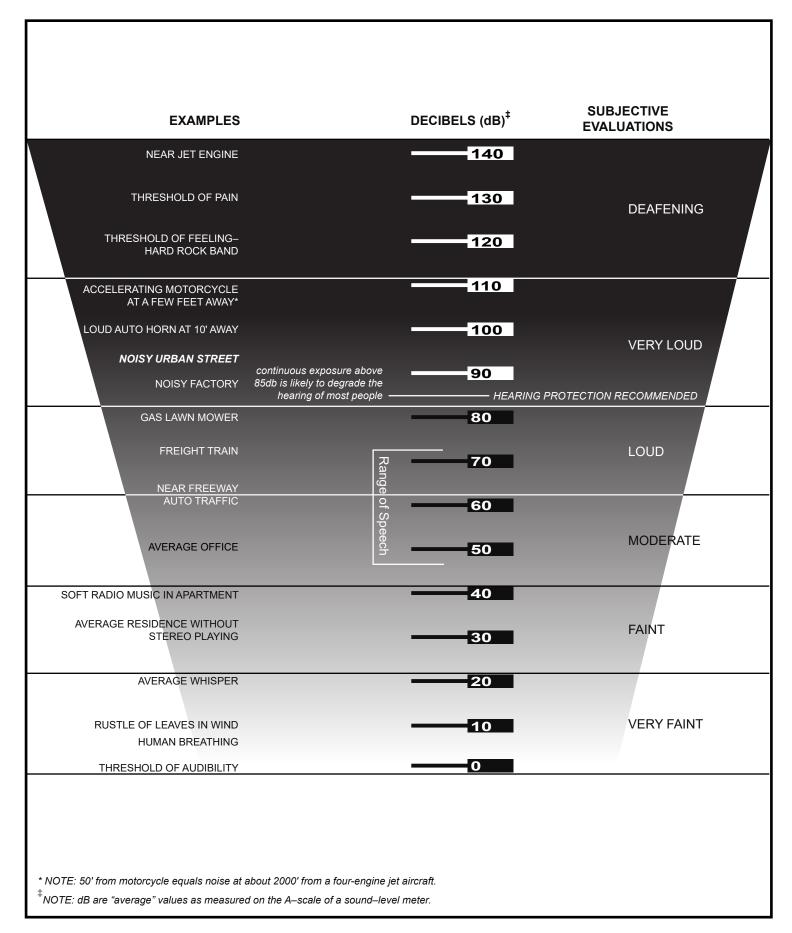
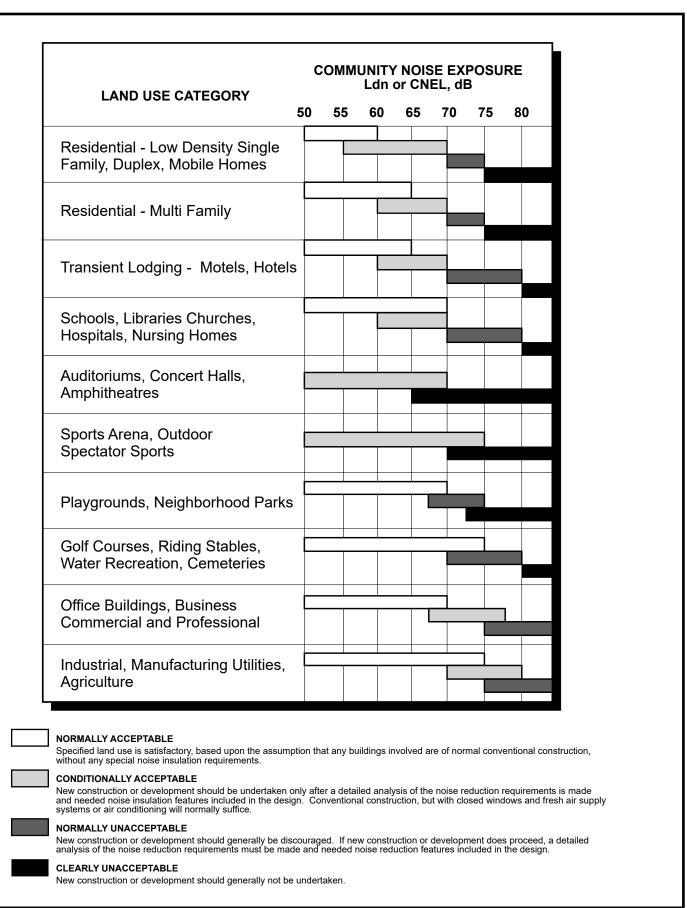


FIGURE 2





SOURCE: California Governor's Office of Planning and Research, State of California General Plan Guidelines, Appendix C: Guidelines for the Preparation and Content of Noise Elements of the General Plan, October 2003.





City of Yorba Linda

Noise Element

The City's General Plan Noise Element provides goals and policies to protect local citizens from the harmful effects of excessive exposure to noise. The General Plan Noise Element identifies several policies to minimize the impacts of excessive noise levels throughout the community and establishes noise level requirements for all land uses. To protect residents from excessive noise, the General Plan Noise Element contains the following four goals:

Goal N-1: Indoor and outdoor living areas that are adequately protected from excessive

transportation noise impacts.

Goal N-2: Noise and land use compatibility.

Goal N-3: Mitigate noise impacts from nontransportation sources.

Goal N-4: Project approvals that include conditions to mitigate noise impacts.

The noise policies specified in the General Plan Noise Element provide the guidelines necessary to satisfy these goals. To ensure the appropriate indoor and outdoor living areas are adequately protected from noise impacts (Goal 1), the General Plan Noise Element identifies a maximum allowable exterior and interior noise levels that correspond with the Municipal Code Noise Standards.

The General Plan Noise Element also provides several policies to ensure compatibility of land uses with their existing and future noise environments (Goal 2) that ensures compliance with established acceptable noise levels for various land uses. To control nontransportation noise impacts (Goal 3), the General Plan Noise Element ensures compliance with standards and procedures for mitigating construction-related activities that introduce excessive noise levels. Goal 4 identifies policies to ensure that noise issues are always considered during the planning process.

Municipal Code

The City of Yorba Linda Municipal Code (Title 8, Health & Safety, Chapter 8.32, Noise Control) includes various provisions intended to protect community residents from prolonged unnecessary, excessive and annoying sound levels that are detrimental to the public health, welfare, and safety, or are contrary to public interest. Examples of noise sources subject to the City's municipal Code include, but are not limited to, industrial and commercial machinery and equipment, pumps, fans, compressors, generators, air conditioners and refrigeration equipment. Section 8.32.060 of the City's noise ordinance establishes exterior noise standards for noise-sensitive land uses, which include residential areas, hospitals, schools,

and churches. These exterior noise standards are summarized in **Table 2: Municipal Code Exterior Noise Standards**. In the event the ambient noise level exceeds any of the five noise limit categories stated in subsection B of this section, the cumulative period applicable to said category shall be increased to reflect said ambient noise level. Furthermore, the maximum permissible noise level shall never exceed the ambient noise level. Each of the noise limits specified shall be reduced by five dBA for impact or simple tone noises or for noise consisting of speech or music.

In addition, Section 8.32.070 establishes interior noise standards for residential uses, which are summarized in **Table 3: Municipal Code Interior Noise Standards for Residential Uses**. In the event the ambient noise level exceeds any of the three noise limit categories, the cumulative period applicable to said category shall be increased to reflect said ambient noise level. Furthermore, the maximum permissible noise level shall never exceed the ambient noise level.

Table 2
Municipal Code Exterior Noise Standards

Time Period	Noise Standards (dBA)
7:00 AM – 10:00 PM	55
10:00 PM – 7:00 AM	50

Note:

The following exterior standards shall not exceed:

- 1. The noise standard for a cumulative period of more than thirty minutes in any hour;
- 2. The noise standard plus five dBA for a cumulative period of more than fifteen minutes in any hour;
- 3. The noise standard plus ten dBA for a cumulative period of more than five minutes in any hour;
- 4. The noise standard plus fifteen dBA for a cumulative period of more than one minute in any hour;
- 5. The noise standard plus twenty dBA for any period of time.

Source: City of Yorba Linda 2016.

Table 3 Municipal Code Interior Noise Standards for Residential Uses

Time Period	Noise Standards (dBA)
10:00 PM – 7:00 AM	45

Note:

The following interior noise standards shall not exceed:

- 1. Forty-five dBA for a cumulative period of more than five minutes in any hour;
- 2. Fifty dBA for a cumulative period of more than one minute in any hour; or
- 3. Fifty-five dBA for any period of time.

Noise sources associated with construction-related activities are typically exempt provided the activities do not take place between the hours of 8:00 PM and 7:00 AM on weekdays, including Saturday, or at any

time on Sunday or federal holidays. Various other activities are also exempt, including, but not limited to, school entertainment and athletic events, mobile sources associated with agricultural activities, and emergency response activities.

The City has not identified or adopted vibration standards. However, the Federal Transit Administration (FTA) provides guidelines for maximum acceptable levels of ground-borne vibration for different type of land uses. Vibration impacts are quantified both in terms of annoyance, and architectural damage due to vibration. For vibration annoyance, 78 VdB is considered the maximum vibration level for residential land uses. For architectural damage due to vibration, a Peak Particle Velocity (PPV) of 0.2 is considered the maximum vibration level for nonengineered timber and masonry buildings (typically applied to residential structures). In lieu of local standards or regulations, these FTA guidelines provide the basis for determining the relative significance of potential project-related vibration impacts.

EXISTING CONDITIONS

Ambient Noise Levels

Short-term (15 minutes) noise measurements were conducted to measure the ambient sound environment in the Project vicinity. Measurements were taken on September 25, 2019. Figure 4: Ambient Noise Monitoring Locations and Sensitive Receptor Map depicts the location of where ambient noise measurements were conducted including the surrounding sensitive receptors that may potentially be affected due to implementation of the Project. As shown in Table 4: Ambient Noise Measurements, ambient noise levels ranged from a low of 56.0 dBA (Site 4) to a high of 72.9 dBA (Site 1).

Table 4
Ambient Noise Measurements

Site No.	Location	Sensitive Use	LAeq (15-minute)	LApeak	LASmax
Site 1	Corner of Olinda Street and Imperial Highway	Commercial	72.9	101.4	87.0
Site 2	Corner of Lemon Drive and Plumosa Drive	Commercial	62.6	85.8	71.7
Site 3	Along Imperial Highway	Commercial	74.7	99.0	84.1
Site 4	East of the Project site along Lemon Drive	Residential	56.0	88.2	72.4
Site 5	North of the Project site along Plumosa Drive	Residential	59.1	97.2	72.6
Site 6	West of the Project site along Lemon Drive	Residential	58.7	86.3	69.6

Refer to Appendix A for noise monitoring data sheets.

Existing Roadway Noise

To characterize the ambient roadway noise environment near the Project site, noise prediction modeling was conducted based on vehicular traffic volumes along nearby roadway segments. Existing roadway noise levels were modeled using the Federal Highway Administration Highway Prediction Noise Model (FHWA-RD-77-108). This model calculates the average noise level in dB(A) CNEL at a given roadway segment based on traffic volumes, vehicle mix, average speeds, roadway geometry, and site conditions. The noise model assumes a "hard" site condition (i.e., providing for the minimum amount of sound attenuation allowed by the traffic noise model, a 3 dB(A) noise reduction per doubling of distance) and assumes no barriers between the roadway and receivers. Traffic noise levels were calculated for sensitive receptors at distances of 75 feet from the center of the roadway. The noise prediction model used daily traffic volumes to determine average daily trips (ADTs) along the analyzed roadway segments. The estimated existing roadway noise levels are provided in Table 5: Existing Weekday (Evening) Roadway Noise Levels and Table 6: Existing Saturday (Mid-Day) Roadway Noise Levels. Note that these calculated noise levels only consider the traffic volumes along the identified street segment and do not include other noise sources that may contribute to the ambient noise level at that location. The purpose of these calculations is to compare existing to future based specifically on the traffic volume for each roadway segment.

As shown in **Table 5** and **Table 6**, the existing weekday vehicle-generated noise levels along roadway segments near the Project site range from a low of 42.2 dBA CNEL along Olinda Street north of Lemon Drive (Intersection 7) to a high of 67.4 dBA CNEL along Imperial Highway north of Casa Loma Avenue, at a distance of 75 feet from the center of the roadway.



North



South



West



East







Ambient Noise Monitoring Locations and Sensitive Receptor Map (Site 1)

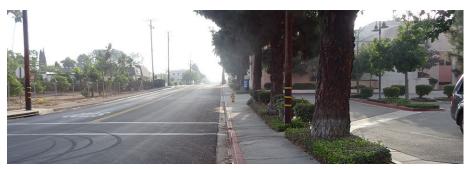












South

East

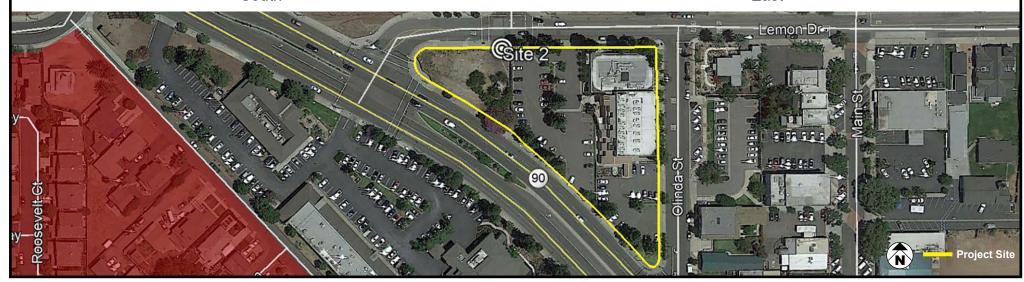


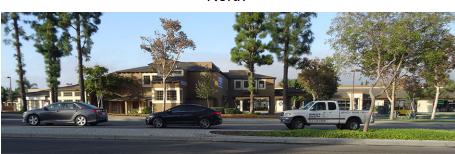
FIGURE 4b



Ambient Noise Monitoring Locations and Sensitive Receptor Map (Site 2)



North



South



West



East







Ambient Noise Monitoring Locations and Sensitive Receptor Map (Site 3)



North



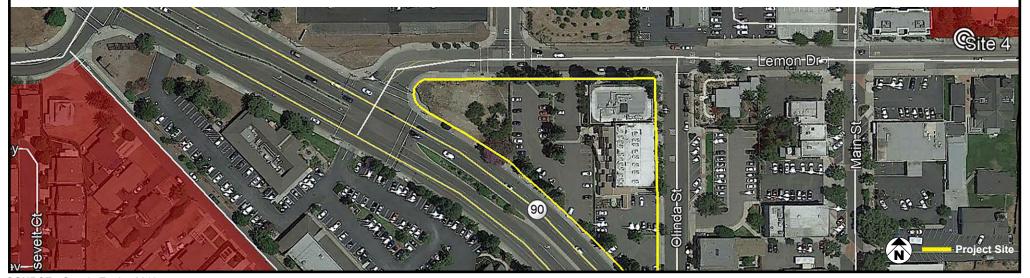
West



South



East



SOURCE: Google Earth - 2019





Ambient Noise Monitoring Locations and Sensitive Receptor Map (Site 4)



North



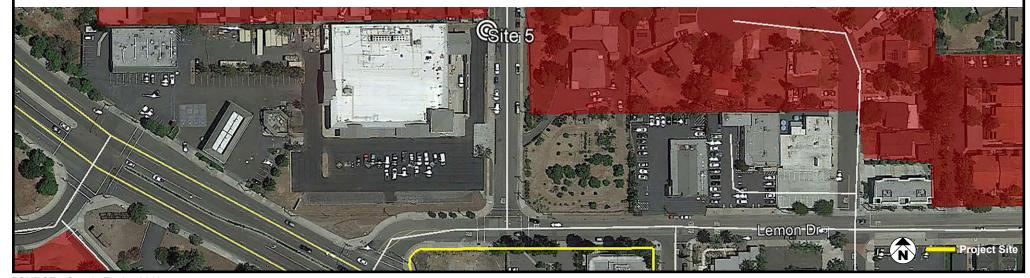
West



South



East



SOURCE: Google Earth - 2019





Ambient Noise Monitoring Locations and Sensitive Receptor Map (Site 5)







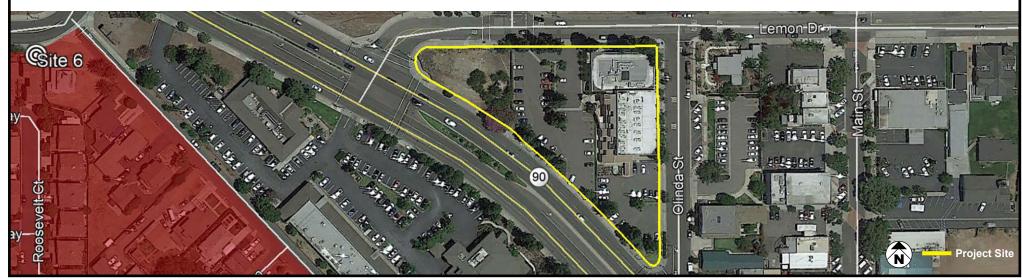


Par



South





SOURCE: Google Earth - 2019





Ambient Noise Monitoring Locations and Sensitive Receptor Map (Site 6)

Table 5
Existing Weekday (Evening) Roadway Noise Levels

Intersection	Roadway Segment	Existing (dBA CNEL)
Imperial Highway		
1	North of Casa Loma Avenue	67.4
	South of Casa Loma Avenue	67.3
2	North of Eureka Avenue	67.1
	South of Eureka Avenue	67.1
3	North of Lemon Drive	67.3
	South of Lemon Drive	67.1
4	North of Olinda Street	67.1
	South of Olinda Street	67.2
5	North of Yorba Linda Boulevard	67.2
	South of Yorba Linda Boulevard	66.6
Plumosa Drive		
6	North of Lemon Drive	57.4
	South of Lemon Drive	N/A
Olinda Street		
7	North of Lemon Drive	42.2
	South of Lemon Drive	52.6
10	North of Project Driveway	52.6
	South of Project Driveway	52.6
Lakeview Avenue		
8	North of Lemon Drive	61.4
	South of Lemon Drive	62.0
9	North of Yorba Linda Boulevard	62.3
	South of Yorba Linda Boulevard	62.8
Casa Loma Avenue		
1	East of Imperial Highway	53.0
	West of Imperial Highway	54.4
Eureka Avenue		
2	East of Imperial Highway	56.0
	West of Imperial Highway	57.7
Lemon Drive		
3	East of Imperial Highway	57.6
	West of Imperial Highway	49.4
6	East of Plumosa Drive	56.8
	West of Plumosa Drive	57.3

Intersection	Roadway Segment	Existing (dBA CNEL)
7	East of Olinda Street	57.0
	West of Olinda Street	56.7
8	East of Lakeview Avenue	38.8
	West of Lakeview Avenue	56.9
Olinda Street		
4	East of Imperial Highway	53.5
	West of Imperial Highway	54.3
Yorba Linda Boulevard		
5	East of Imperial Highway	66.2
	West of Imperial Highway	64.7
9	East of Lakeview Avenue	66.5
	West of Lakeview Avenue	66.2
Project Driveway		
10	East of Olinda Street	N/A
	West of Olinda Street	N/A

Source: Source: Refer to **Appendix B** for roadway noise worksheets.

Table 6
Existing Saturday (Mid-Day) Roadway Noise Levels

Intersection	Roadway Segment	Existing (dBA CNEL)
Imperial Highway		
1	North of Casa Loma Avenue	65.8
	South of Casa Loma Avenue	65.7
2	North of Eureka Avenue	65.5
	South of Eureka Avenue	65.5
3	North of Lemon Drive	65.8
	South of Lemon Drive	65.5
4	North of Olinda Street	65.5
	South of Olinda Street	65.8
5	North of Yorba Linda Boulevard	65.8
	South of Yorba Linda Boulevard	65.3
Plumosa Drive		
6	North of Lemon Drive	56.5
	South of Lemon Drive	N/A
Olinda Street		

Intersection	Roadway Segment	Existing (dBA CNEL)
7	North of Lemon Drive	41.8
	South of Lemon Drive	51.6
10	North of Project Driveway	52.3
	South of Project Driveway	52.3
Lakeview Avenue		
8	North of Lemon Drive	61.0
	South of Lemon Drive	61.4
9	North of Yorba Linda Boulevard	62.0
	South of Yorba Linda Boulevard	62.0
Casa Loma Avenue		
1	East of Imperial Highway	50.3
	West of Imperial Highway	53.7
Eureka Avenue		
2	East of Imperial Highway	54.1
	West of Imperial Highway	56.0
Lemon Drive		
3	East of Imperial Highway	57.5
	West of Imperial Highway	50.6
6	East of Plumosa Drive	57.1
	West of Plumosa Drive	57.5
7	East of Olinda Street	57.4
	West of Olinda Street	57.2
8	East of Lakeview Avenue	40.9
	West of Lakeview Avenue	56.8
Olinda Street		
4	East of Imperial Highway	52.3
	West of Imperial Highway	55.0
Yorba Linda Boulevard		
5	East of Imperial Highway	65.2
	West of Imperial Highway	63.9
9	East of Lakeview Avenue	65.6
	West of Lakeview Avenue	65.6
Project Driveway		
10	East of Olinda Street	N/A
	West of Olinda Street	N/A
Source: Refer to Appendix B fo	r roadway noise worksheets.	

Vibration Conditions

Based on field observations, the primary source of existing ground-borne vibration near the Project site is vehicle traffic on local roadways. According to the Federal Transit Administration (FTA),⁶ typical road traffic—induced vibration levels are unlikely to be perceptible by people. Trucks and buses typically generate ground-borne vibration velocity levels of approximately 63 VdB (at a 50-foot distance), and these levels could reach 72 VdB when trucks and buses pass over bumps in the road. A vibration level of 72 VdB is above the 60-VdB level of perceptibility.

METHODOLOGY

Construction Noise

The construction noise model for the Project is based on construction equipment noise levels as published by the FHWA Roadway Construction Noise Model.⁷ The ambient noise levels at surrounding sensitive-receptor locations were based on field measurement data. The construction noise levels were then calculated for sensitive-receptor locations based on the standard point source noise-distance attenuation factor of 6.0 dB(A) for each doubling distance.

Construction would consist of the following phases: (1) demolition; (2) building construction; (3) paving; and (4) architectural coating. As mentioned previously, the existing structures and remaining two parcels are currently owned by the City and would be removed as part of the approved Yorba Linda Town Center Project. However, the demolition analysis of the Yorba Linda Public Library and the associated parking lots is for informational purposes only. Each phase of construction would result in varying levels of intensity and a number of construction personnel. The construction workforce would consist of approximately 13 worker trips per day and 67 total hauling trips during demolition; 2 worker trips per day and 1 vendor trip per day during building construction; and 13 worker trips per day during paving.

Construction Vibration

Construction-related ground-borne vibration impacts were evaluated using the FTA's *Transit Noise and Vibration Impact Assessment* guidance document.8 The potential vibration source in the Project site includes construction equipment in operation during Project construction. Ground-borne vibration impacts were evaluated by identifying potential vibration sources and estimating the vibration levels at the affected receptor.

⁶ Federal Transit Administration, Transit Noise and Vibration Impact Assessment (2004).

⁷ US Department of Transportation, Federal Highway Administration, FHWA Roadway Construction Noise Model User's Guide, (Cambridge, MA: US Department of Transportation, January 2006).

⁸ FTA, Transit Noise.

Roadway Noise

Traffic noise levels were modeled using the FHWA Noise Prediction Model (FHWA-RD-77-108). This model calculates the average noise level in dB(A) CNEL along a given roadway segment based on traffic volumes, vehicle mix, posted speed limits, roadway geometry, and site conditions. The model calculates noise associated with a specific line source and the results characterize noise generated by motor vehicle traffic along the specific roadway segment. According to data collected by Caltrans, California automobile noise is 0.8 to 1.0 dB(A) louder than national levels, while medium and heavy truck noise is 0.3 to 3.0 dB(A) quieter than national levels.9 Roadway traffic data was obtained from the traffic impact study¹⁰ for the Project. Noise levels were evaluated with respect to the following modeled traffic scenarios:

- Existing Conditions
- Existing plus Project Conditions
- Opening Year (2021) Conditions
- Opening Year (2021) plus Project Conditions
- Build-Out Year (2040) Conditions
- Build-Out Year (2040) plus Project Conditions

Operational Noise

Potential operational noise levels related to the drive-through, parking, amplified speech emanating from the speaker, and the trash compactor were calculated with the noise model SoundPLAN, a commercially available software that produces computer simulations of noise propagation from sources. The operational noise levels were calculated for sensitive-receptor locations using SoundPLAN. It was assumed operating hours would take place between 10:00 AM and 1:30 AM. The SoundPLAN model includes real-world noise levels and contains noise data in a reference library as provided below:

- To quantify events related to the drive-thru and parking activity, a line source was modeled with a sound pressure level (LwA) of 52 dB.
- To quantify events related to the speakerbox, a point source was modeled with a sound pressure level (LwA) of 65 dB.
- To quantify events related to outdoor patio area, a point source was modeled at each dining table with a sound pressure level (LwA) of 75 dB.

⁹ Rudolf W. Hendriks, California Vehicle Noise Emission Levels, NTIS, FHWA/CA/TL-87/03 (1987).

¹⁰ W-Trans, Traffic Impact Study for 499 East Hamilton Avenue, May 16, 2018.

 To quantify events related to the trash compactor, a point source was modeled with a sound pressure level (LwA) of 86.1 dB. However, it is important to note the trash compactor would be positioned behind a wall enclosure.

The modeling accounts for large differences in topography, and the presence of intervening structures or landscaping that would block a direct line of sight between operation activities from the proposed Project site and nearby sensitive-receptors.

Roadway Noise

Noise-prediction modeling was conducted and based on vehicular traffic volumes along nearby roadway segments to determine the ambient roadway noise environment related to traffic near the Project site. The average daily trips (ADTs) for roadway segments were estimated using similar In-N-Out Restaurant trip generation numbers based on a similarly sized facility. For purposes of analysis, approximately 300 hourly trips were used to develop the traffic noise levels.

As previously discussed, a doubling of sound energy results in a 3 dB(A) increase in sound, which means that a doubling of sound wave energy (e.g., doubling the volume of traffic on a roadway) would result in a barely perceptible change in sound level. ADTs associated with construction or operation would not result in a doubling of trip volumes along the study-area roadways. Given that it takes a doubling of ADTs on roadways to increase noise by 3 dB(A), the noise-level increase associated with construction and operation vehicle trips would be less than 3 dB(A). Accordingly, Project traffic-related noise levels would result in less than significant impacts.

NOISE ANALYSIS

Construction Noise

Construction activities occurring during the construction phases (demolition, building construction, architectural coating, and paving) would generate both steady-state and episodic noise that would be heard both on and off the Project site. Each phase involves the use of different types of construction equipment and, therefore, has its own distinct noise characteristics. The Project would be constructed using typical construction techniques; no blasting, impact pile driving, or jackhammers would be required.

Typical maximum noise levels and duty cycles of representative types of equipment are presented in **Table**7: Maximum Noise Levels for Project Construction Equipment. Construction equipment noise would not be constant because of the variations of power, cycles, and equipment locations. For maximum noise events, this analysis considers equipment operating at the edge of the property line of the Project site. As a condition of approval, the Project will utilize construction best management practices to further reduce construction noise which include but are not limited to ensuring construction equipment is properly

muffled according to industry standards; and placing noise-generating construction equipment and locating construction staging areas away from the sensitive uses.

Table 7
Maximum Noise Levels for Project Construction Equipment

Equipment Description	Spec Lmax (dB[A])	Actual Lmax (dB[A])	Typical Duty Cycle (%)
Compressor (air)	80.0	77.7	40
Concrete/Industrial saw	90.0	89.6	20
Dozer	85.0	81.7	40
Forklift	80.0	N/A	40
Generator	82.0	80.6	50
Grader	85.0	N/A	40
Paver	85.0	77.2	50
Roller	85.0	80.0	20
Tractor	84.0	N/A	40
Welder	73.0	74.0	40

Source: U.S. DOT, FHWA Construction Equipment and Noise Level Ranges.

Noise levels at a distance of 50 feet.

As mentioned previously, sound generated by the construction noise source typically diminishes at a rate of 6 dBA over hard surfaces, such as asphalt, and 7.5 dBA over soft surfaces, such as vegetation, for each doubling of distance. Barriers—such as walls, berms, or buildings, and elevation differences—can also reduce sound levels by up to 20 dBA.¹¹

The potential noise impact generated during construction depends on the phase of construction and the percentage of time the equipment operates over the workday. However, construction noise estimates used for the analysis are representative of worst-case conditions because it is unlikely that all the equipment contained on site would operate simultaneously. The Project would be constructed using typical construction techniques; no blasting and impact pile driving would be required. As would be the case for construction of most land use development projects, construction of the proposed Project would require the use of heavy-duty equipment with the potential to generate audible noise above the ambient background noise level.

Construction equipment operates at its nosiest levels for certain percentages of time during operation. During a construction day, the highest noise levels would be generated when multiple pieces of

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¹¹ Caltrans, *Technical Noise Supplement* (1998), 33–40, 123–131.

construction equipment are operated concurrently. The Project's estimated construction noise levels were calculated for a scenario in which a reasonable number of construction equipment was assumed to be operating simultaneously, given the physical size of the site and logistical limitations, and with the noise equipment located at the construction area nearest to the affected receptors to present a conservative impact analysis. This is considered a worst-case evaluation because the Project would typically use fewer overall equipment simultaneously at any given time and, as such, would likely generate lower noise levels than reported herein.

The noise levels at the various distances from construction activity are shown in **Table 8**: **Construction Noise Estimates**. As shown in **Table 8**, construction noise levels would range from a low of 52.4 dBA during architectural coating at the residences along Lemon Drive to a high of 72.9 dBA during demolition at the residences along Plumosa Drive. It is important to note, the existing structures and remaining two parcels are currently owned by the City and would be removed as part of the approved Yorba Linda Town Center Project. However, the demolition analysis of the Yorba Linda Public Library and the associated parking lots is for informational purposes only.

Table 8
Construction Noise Estimates

Sound Level at Various Receptor Distances From Construction Activitie					ties, dBA	
		ntial Along osa Drive	Residential Along Lemon Drive (West)		Residential Along Lemor Drive (East)	
Activity	Lmax	Leq	Lmax	Leq	Lmax	Leq
Demolition	72.9	70.7	68.3	66.0	70.1	67.9
Building Construction	68.3	68.3	63.7	63.7	65.5	65.5
Paving	67.3	66.4	62.7	61.8	64.5	63.6
Architectural Coating	61.0	57.0	56.4	52.4	58.2	54.2

Source: RCNM Version 1.1

Refer to ${\it Appendix}\ {\it C}$ for construction noise worksheets.

The noise standard related to construction is intended to prevent, to the greatest extent possible, the use of nonstandard construction equipment, unnecessary idling, equipment that is not appropriately muffled, and not to overall construction noise, in general, during allowable hours. With implementation of the recommended **Mitigation Measure N-1**, optimal muffler systems for all equipment and the break in line

of sight to a sensitive receptor would reduce construction noise levels by approximately 10 dB or more. ¹² Also, limiting the number of noise-generating heavy-duty construction equipment to two (2) pieces operating simultaneously would reduce construction noise levels by approximately 5 dB. With implementation of the recommended measures and compliant with local regulations, construction noise levels would be decreased by a minimum of 15 dB. Consequently, construction noise levels at the residential areas along Plumosa Drive would be reduced to 57.9 dBA, below the existing ambient noise levels (refer to **Table 4**). As such, impacts would not be considered significant.

Construction Vibration

Table 9: On-Site Construction Vibration Impacts—Building Damage and Table 10: On-Site Construction Vibration Impacts—Human Annoyance present the construction vibration impacts associated with on-site construction in terms of building damage and human annoyance. As shown in Table 9, the forecasted vibration levels due to on-site construction activities would not exceed the building damage significance threshold at the single-family residences in the vicinity of the Project site. It is important to note pile driving, large buildozers and caisson drilling would not be required during construction. Consequently, heavy construction equipment would not generate substantial levels of vibration that would cause annoyance at the off-site, vibration-sensitive residences. Construction vibration impacts would be less than significant. Furthermore, as shown in Table 10, the forecasted vibration levels due to on-site construction activities would not exceed human annoyance.

Table 9
On-Site Construction Vibration Impacts—Building Damage

Nearest Off-	Estimated Vibration Velocity Levels at the Nearest Off-Site Structures from the Project Construction Equipment						Significance	
Site Building Structures	Pile Driver (impact) ¹	Vibratory Roller	Large Bulldozer	Caisson Drilling	Loaded Trucks	Jack- hammer	Small bulldozer	Threshold (PPV ips)
FTA Reference V	FTA Reference Vibration Levels at 25 feet							
	0.644	0.210	0.089	0.089	0.076	0.035	0.003	_
Residential Along Plumosa Drive	0.013	0.004	0.002	0.002	0.000	0.001	0.000	0.12
Residential Along Lemon Drive (West)	0.006	0.002	0.001	0.001	0.001	0.000	0.000	0.12

¹² FHWA, Special Report – Measurement, Prediction, and Mitigation, updated June 2017. https://www.fhwa.dot.gov/Environment/noise/construction_noise/special_report/hcn04.cfm, accessed October 2019

Nearest Off-	Estimated Vibration Velocity Levels at the Nearest Off-Site Structures from the Project Construction Equipment							Significance
Site Building Structures	Pile Driver (impact) ¹	Vibratory Roller	Large Bulldozer	Caisson Drilling	Loaded Trucks	Jack- hammer	Small bulldozer	Threshold (PPV ips)
Residential Along Lemon Drive (East)	0.008	0.003	0.001	0.001	0.001	0.000	0.000	0.12

Source: US Department of Transportation, Federal Transportation Authority, Transit Noise and Vibration Impact Assessment

Source: Refer to **Appendix D** for construction vibration worksheets.

Note:

Table 10
On-Site Construction Vibration Impacts—Human Annoyance

Nearest Off-	Estimated Vibration Velocity Levels at the Nearest Off-Site Structures from the Project Construction Equipment						Significance	
Site Building Structures	Pile Driver (impact) ¹	Vibratory Roller	Large Bulldozer	Caisson Drilling	Loaded Trucks	Jack- hammer	Small bulldozer	Threshold (PPV ips)
FTA Reference V	ibration Leve	els at 25 feet						
	104	94	87	87	86	79	58	_
Residential Along Plumosa Drive	70	60	53	53	52	45	23	72
Residential Along Lemon Drive (West)	63	53	45	46	45	38	17	72
Residential Along Lemon Drive (East)	66	56	49	49	47	41	19	72

Source: US Department of Transportation, Federal Transportation Authority, Transit Noise and Vibration Impact Assessment

Source: Refer to ${\it Appendix\,D}$ for construction vibration worksheets.

Note:

Roadway Noise

Roadway noise levels were modeled using the Federal Highway Administration Prediction Model (FHWA-RD-88-108) to determine if operation of the Project would increase levels greater than 3 dB(A) along local roadways. This model considers roadway noise levels from local street segments that would have an increase or decrease in vehicle traffic as a result of the Project.

¹ Pile driving would not be required during construction.

¹ Pile driving would not be required during construction.

Existing plus Project

Table 11: Existing plus Project Weekday (Evening) and Table 12: Existing plus Project Saturday (Mid-Day)

illustrates the change in CNEL from existing traffic volumes and from traffic generated by the Project. The difference in traffic noise between existing conditions and existing plus Project conditions represents the increase in noise attributable to Project-related traffic. As shown in **Table 11** and **Table 12**, the weekday (evening) and Saturday (Mid-Day) maximum roadway noise level increase along existing roadways would be 1.8 dBA CNEL and 1.0 dBA CNEL along Olinda Street, south of the Project driveway (Intersection 10).

Table 11
Existing plus Project Weekday (Evening)

		Existing	Existing Plus Project	Difference
Intersection	Roadway Segment		dBA CNEL	
Imperial Highway				
1	North of Casa Loma Avenue	67.4	67.4	0.0
	South of Casa Loma Avenue	67.3	67.4	+0.1
2	North of Eureka Avenue	67.1	67.2	+0.1
	South of Eureka Avenue	67.1	67.1	0.0
3	North of Lemon Drive	67.3	67.3	0.0
	South of Lemon Drive	67.1	67.0	-0.1
4	North of Olinda Street	67.1	67.0	-0.1
	South of Olinda Street	67.2	67.3	+0.1
5	North of Yorba Linda Boulevard	67.2	67.2	0.0
	South of Yorba Linda Boulevard	66.6	66.6	0.0
Plumosa Drive				
6	North of Lemon Drive	57.4	57.4	0.0
	South of Lemon Drive	N/A	49.8	N/A
Olinda Street				
7	North of Lemon Drive	42.2	42.2	0.0
	South of Lemon Drive	52.6	52.8	+0.2
10	North of Project Driveway	52.6	52.8	+0.2
	South of Project Driveway	52.6	54.4	+1.8
Lakeview Avenue				
8	North of Lemon Drive	61.4	61.5	+0.1
	South of Lemon Drive	62.0	62.0	0.0
9	North of Yorba Linda Boulevard	62.3	62.3	0.0
	South of Yorba Linda Boulevard	62.8	62.8	0.0
Casa Loma Avenue				

		Existing	Existing Plus Project	Difference
Intersection	Roadway Segment		dBA CNEL	
1	East of Imperial Highway	53.0	53.0	0.0
	West of Imperial Highway	54.4	53.3	-1.1
Eureka Avenue				
2	East of Imperial Highway	56.0	56.5	+0.5
	West of Imperial Highway	57.7	55.8	-1.9
Lemon Drive				
3	East of Imperial Highway	57.6	57.9	+0.3
	West of Imperial Highway	49.4	49.4	0.0
6	East of Plumosa Drive	56.8	56.8	0.0
	West of Plumosa Drive	57.3	57.9	+0.6
7	East of Olinda Street	57.0	57.1	+0.1
	West of Olinda Street	56.7	56.7	0.0
8	East of Lakeview Avenue	38.8	38.8	0.0
	West of Lakeview Avenue	56.9	57.0	+0.1
Olinda Street				
4	East of Imperial Highway	53.5	55.0	+1.5
	West of Imperial Highway	54.3	54.3	0.0
Yorba Linda Boulevard				
5	East of Imperial Highway	66.2	66.2	0.0
	West of Imperial Highway	64.7	64.7	0.0
9	East of Lakeview Avenue	66.5	66.5	0.0
	West of Lakeview Avenue	66.2	66.2	0.0
Project Driveway				
10	East of Olinda Street	N/A	N/A	N/A
	West of Olinda Street	N/A	49.9	N/A

Source: Refer to **Appendix B** for roadway noise worksheets.

Table 12
Existing plus Project Saturday (Mid-Day)

Intersection	Roadway Segment	Existing	Existing plus Project	Difference
Imperial Highway				
1	North of Casa Loma Avenue	65.8	65.8	0.0
	South of Casa Loma Avenue	65.7	65.8	+0.1
2	North of Eureka Avenue	65.5	65.6	+0.1
	South of Eureka Avenue	65.5	65.5	0.0

Intersection	Roadway Segment	Existing	Existing plus Project	Difference
3	North of Lemon Drive	65.8	65.8	0.0
	South of Lemon Drive	65.5	65.5	0.0
4	North of Olinda Street	65.5	65.5	0.0
	South of Olinda Street	65.8	65.8	0.0
5	North of Yorba Linda Boulevard	65.8	65.8	0.0
	South of Yorba Linda Boulevard	65.3	65.4	+0.1
Plumosa Drive				
6	North of Lemon Drive	56.5	56.6	0.0
	South of Lemon Drive	N/A	47.0	N/A
Olinda Street				
7	North of Lemon Drive	41.8	41.8	0.0
	South of Lemon Drive	51.6	51.8	+0.2
10	North of Project Driveway	52.3	52.5	+0.2
	South of Project Driveway	52.3	53.3	+1.0
Lakeview Avenue				
8	North of Lemon Drive	61.0	61.0	0.0
	South of Lemon Drive	61.4	61.5	+0.1
9	North of Yorba Linda Boulevard	62.0	62.0	0.0
	South of Yorba Linda Boulevard	62.0	62.0	0.0
Casa Loma Avenue				
1	East of Imperial Highway	50.3	50.4	+0.1
	West of Imperial Highway	53.7	53.7	0.0
Eureka Avenue				
2	East of Imperial Highway	54.1	54.1	0.0
	West of Imperial Highway	56.0	56.0	0.0
Lemon Drive				
3	East of Imperial Highway	57.5	57.8	+0.3
	West of Imperial Highway	50.6	50.6	0.0
6	East of Plumosa Drive	57.1	57.1	0.0
	West of Plumosa Drive	57.5	57.8	+0.3
7	East of Olinda Street	57.4	57.4	0.0
	West of Olinda Street	57.2	57.3	+0.1
8	East of Lakeview Avenue	40.9	40.9	0.0
	West of Lakeview Avenue	56.8	56.9	+0.1
Olinda Street				
4	East of Imperial Highway	52.3	53.3	+1.0
	West of Imperial Highway	55.0	54.7	-0.3
Yorba Linda Boulevard				
5	East of Imperial Highway	65.2	65.2	0.0
	West of Imperial Highway	63.9	63.9	0.0
	<u> </u>			

Intersection	Roadway Segment	Existing	Existing plus Project	Difference
9	East of Lakeview Avenue	65.6	65.6	0.0
	West of Lakeview Avenue	65.6	65.7	+0.1
Project Driveway				
10	East of Olinda Street	N/A	N/A	N/A
	West of Olinda Street	N/A	47.3	N/A

Source: Refer to **Appendix B** for roadway noise worksheets.

Opening Year (2021) plus Project

Table 13: Opening Year (2021) plus Project Weekday (Evening) and Table 14: Opening Year (2021) plus Project Saturday (Mid-Day) illustrates the change in CNEL from background traffic volumes and from traffic generated by the Project. As shown in Table 13 and Table 14, the weekday (evening) and Saturday (Mid-Day) maximum roadway noise level increase along existing roadways would be 1.5 dBA CNEL and 0.9 dBA CNEL along Olinda Street, south of the Project Driveway (Intersection 10) respectively. Additionally, weekday (evening) and Saturday (Mid-Day) roadway noise levels would increase by 1.3 dBA CNEL and 0.9 dBA CNEL along Olinda Street, east of Imperial Highway (Intersection 4), respectively.

Table 13
Opening Year (2021) plus Project Weekday (Evening)

Intersection	Roadway Segment	Opening Year (2021)	Opening Year (2021) Plus Project	Difference
Imperial Highway				
1	North of Casa Loma Avenue	67.6	67.6	0.0
	South of Casa Loma Avenue	67.6	67.6	0.0
2	North of Eureka Avenue	67.4	67.5	+0.1
	South of Eureka Avenue	67.4	67.4	0.0
3	North of Lemon Drive	67.5	67.6	+0.1
	South of Lemon Drive	67.2	67.1	-0.1
4	North of Olinda Street	67.2	67.1	-0.1
	South of Olinda Street	67.3	67.4	+0.1
5	North of Yorba Linda Boulevard	67.3	67.3	0.0
	South of Yorba Linda Boulevard	66.8	66.9	+0.1
Plumosa Drive				
6	North of Lemon Drive	57.7	57.8	+0.1
	South of Lemon Drive	N/A	49.8	N/A

Intersection	Roadway Segment	Opening Year (2021)	Opening Year (2021) Plus Project	Difference
Olinda Street				
7	North of Lemon Drive	42.2	42.2	0.0
	South of Lemon Drive	53.2	53.3	+0.1
10	North of Project Driveway	53.2	53.3	+0.1
	South of Project Driveway	53.2	54.7	+1.5
Lakeview Avenue				
8	North of Lemon Drive	62.7	62.7	0.0
	South of Lemon Drive	63.6	63.6	0.0
9	North of Yorba Linda Boulevard	63.9	63.9	0.0
	South of Yorba Linda Boulevard	63.2	63.2	0.0
Casa Loma Avenu	e			
1	East of Imperial Highway	53.2	53.2	0.0
	West of Imperial Highway	53.6	53.6	0.0
Eureka Avenue				
2	East of Imperial Highway	56.7	56.7	0.0
	West of Imperial Highway	56.0	56.1	+0.1
Lemon Drive				
3	East of Imperial Highway	59.0	59.5	+0.5
	West of Imperial Highway	49.4	49.4	0.0
6	East of Plumosa Drive	58.9	58.9	0.0
	West of Plumosa Drive	59.0	59.5	+0.5
7	East of Olinda Street	59.2	59.2	0.0
	West of Olinda Street	58.8	58.9	+0.1
8	East of Lakeview Avenue	38.8	38.8	0.0
	West of Lakeview Avenue	59.1	59.2	+0.1
Olinda Street				
4	East of Imperial Highway	54.0	55.3	+1.3
	West of Imperial Highway	54.7	54.7	0.0
Yorba Linda Boulevard				
5	East of Imperial Highway	66.7	66.7	0.0
	West of Imperial Highway	65.1	65.1	0.0
9	East of Lakeview Avenue	66.8	66.8	0.0

Intersection	Roadway Segment	Opening Year (2021)	Opening Year (2021) Plus Project	Difference
	West of Lakeview Avenue	66.6	66.7	0.0
Project Driveway				
10	East of Olinda Street	N/A	N/A	NA
	West of Olinda Street	N/A	49.9	N/A

Table 14
Opening Year (2021) plus Project Saturday (Mid-Day)

Intersection	Roadway Segment	Opening Year (2021)	Opening Year (2021) Plus Project	Difference
Imperial Highway				
1	North of Casa Loma Avenue	66.2	66.1	-0.1
	South of Casa Loma Avenue	66.2	66.1	-0.1
2	North of Eureka Avenue	66.0	66.0	0.0
	South of Eureka Avenue	65.9	65.9	0.0
3	North of Lemon Drive	66.2	66.3	+0.1
	South of Lemon Drive	65.6	65.6	0.0
4	North of Olinda Street	65.6	65.6	0.0
	South of Olinda Street	65.9	66.0	+0.1
5	North of Yorba Linda Boulevard	65.9	65.9	0.0
	South of Yorba Linda Boulevard	65.7	65.8	+0.1
Plumosa Drive				
6	North of Lemon Drive	57.0	57.0	0.0
	South of Lemon Drive	N/A	47.4	N/A
Olinda Street				
7	North of Lemon Drive	41.8	41.8	0.0
	South of Lemon Drive	52.4	52.5	+0.1
10	North of Project Driveway	52.9	53.1	+0.2
	South of Project Driveway	52.9	53.8	+0.9
Lakeview Avenue				
8	North of Lemon Drive	62.4	62.5	+0.1
	South of Lemon Drive	63.4	63.4	0.0
9	North of Yorba Linda Boulevard	63.9	63.9	0.0

Intersection	Roadway Segment	Opening Year (2021)	Opening Year (2021) Plus Project	Difference
	South of Yorba Linda Boulevard	62.6	62.6	0.0
Casa Loma Avenue	2			
1	East of Imperial Highway	50.9	51.0	+0.1
	West of Imperial Highway	54.0	53.0	-1.0
Eureka Avenue				
2	East of Imperial Highway	54.5	54.5	0.0
	West of Imperial Highway	56.3	56.3	0.0
Lemon Drive				
3	East of Imperial Highway	59.4	59.6	+0.2
	West of Imperial Highway	50.6	50.6	0.0
6	East of Plumosa Drive	59.3	59.3	0.0
	West of Plumosa Drive	59.4	59.7	+0.3
7	East of Olinda Street	59.6	59.7	+0.1
	West of Olinda Street	59.4	59.4	0.0
8	East of Lakeview Avenue	40.9	40.9	0.0
	West of Lakeview Avenue	59.3	59.4	+0.1
Olinda Street				
4	East of Imperial Highway	52.9	53.8	+0.9
	West of Imperial Highway	55.4	55.4	0.0
Yorba Linda Boulevard				
5	East of Imperial Highway	65.8	65.9	+0.1
	West of Imperial Highway	64.4	64.4	0.0
9	East of Lakeview Avenue	66.0	66.0	0.0
	West of Lakeview Avenue	66.3	66.3	0.0
Project Driveway				
10	East of Olinda Street	N/A	N/A	N/A
		N/A	47.3	N/A

Buildout plus Project

Table 15: Buildout plus Project Weekday (Evening) and Table 16: Buildout plus Project Saturday (Mid-Day) illustrates the change in CNEL from cumulative traffic volumes and from traffic generated by the Project. The weekday (evening) and Saturday (Mid-Day) maximum roadway noise level increase along roadways would be 1.3 dBA CNEL and 0.8 dBA CNEL along Olinda Street, south of Project driveway (Intersection 10), respectively. Additionally, maximum roadway noise levels along Olinda Street, east of Imperial Highway (Intersection 4) would increase by 1.2 dBA CNEL and 0.7 dBA CNEL, respectively.

Table 15
Buildout plus Project Weekday (Evening)

Intersection	Roadway Segment	Buildout Year (2040)	Buildout Year (2040) Plus Project	Difference
Imperial Highw	ray			
1	North of Casa Loma Avenue	68.5	68.5	0.0
	South of Casa Loma Avenue	67.0	67.0	0.0
2	North of Eureka Avenue	68.3	68.3	0.0
	South of Eureka Avenue	68.3	68.3	0.0
3	North of Lemon Drive	68.4	68.4	0.0
	South of Lemon Drive	68.0	68.0	0.0
4	North of Olinda Street	68.0	68.0	0.0
	South of Olinda Street	68.2	68.3	+0.1
5	North of Yorba Linda Boulevard	68.1	68.2	+0.1
	South of Yorba Linda Boulevard	67.7	67.7	0.0
Plumosa Drive				
6	North of Lemon Drive	58.6	58.6	0.0
	South of Lemon Drive	N/A	49.8	N/A
Olinda Street				
7	North of Lemon Drive	43.3	43.3	0.0
	South of Lemon Drive	54.0	54.1	+0.1
10	North of Project Driveway	54.0	54.1	+0.1
	South of Project Driveway	54.0	55.3	+1.3
Lakeview Avent	ue			
8	North of Lemon Drive	63.3	63.4	+0.1
	South of Lemon Drive	64.2	64.2	0.0
9	North of Yorba Linda Boulevard	64.5	64.5	0.0
	South of Yorba Linda Boulevard	64.0	64.0	0.0
Casa Loma Ave	nue			
1	East of Imperial Highway	54.1	54.1	0.0
	West of Imperial Highway	54.5	54.5	0.0
Eureka Avenue				
2	East of Imperial Highway	57.6	57.6	0.0
	West of Imperial Highway	56.9	56.9	0.0
Lemon Drive				

Intersection	Roadway Segment	Buildout Year (2040)	Buildout Year (2040) Plus Project	Difference
3	East of Imperial Highway	59.7	60.1	+0.4
	West of Imperial Highway	50.3	50.3	0.0
6	East of Plumosa Drive	59.5	59.5	0.0
	West of Plumosa Drive	59.7	60.0	+0.3
7	East of Olinda Street	59.7	59.8	+0.1
	West of Olinda Street	59.4	59.4	0.0
8	East of Lakeview Avenue	39.6	39.6	0.0
	West of Lakeview Avenue	59.7	59.7	0.0
Olinda Street				
4	East of Imperial Highway	54.8	56.0	+1.2
	West of Imperial Highway	55.5	55.5	0.0
Yorba Linda Bo	ulevard			
5	East of Imperial Highway	67.5	67.5	0.0
	West of Imperial Highway	65.9	65.9	0.0
9	East of Lakeview Avenue	67.6	67.6	0.0
	West of Lakeview Avenue	67.5	67.5	0.0
Project Driveway				
10	East of Olinda Street	N/A	N/A	N/A
	West of Olinda Street	N/A	49.9	N/A

Table 16
Buildout plus Project Saturday (Mid-Day)

Intersection	Roadway Segment	Buildout Year (2040)	Buildout Year (2040) Plus Project	Difference
Imperial Highway				
1	North of Casa Loma Avenue	67.0	67.0	0.0
	South of Casa Loma Avenue	67.0	67.0	0.0
2	North of Eureka Avenue	66.8	66.8	0.0
	South of Eureka Avenue	66.7	66.8	+0.1
3	North of Lemon Drive	67.1	67.1	0.0
	South of Lemon Drive	66.5	66.5	0.0
4	North of Olinda Street	66.5	66.5	0.0
	South of Olinda Street	66.8	66.8	0.0

Intersection	Roadway Segment	Buildout Year (2040)	Buildout Year (2040) Plus Project	Difference
5	North of Yorba Linda Boulevard	66.8	66.8	0.0
	South of Yorba Linda Boulevard	66.6	66.6	0.0
Plumosa Drive				
6	North of Lemon Drive	57.8	57.8	0.0
	South of Lemon Drive	N/A	47.4	N/A
Olinda Street				
7	North of Lemon Drive	43.0	43.0	0.0
	South of Lemon Drive	53.2	53.3	+0.1
10	North of Project Driveway	53.7	53.9	+0.2
	South of Project Driveway	53.7	54.5	+0.8
Lakeview Avenue				
8	North of Lemon Drive	63.1	63.1	0.0
	South of Lemon Drive	64.0	64.0	0.0
9	North of Yorba Linda Boulevard	64.5	64.5	0.0
	South of Yorba Linda Boulevard	63.4	63.4	0.0
Casa Loma Avenue				
1	East of Imperial Highway	51.8	51.9	+0.1
	West of Imperial Highway	54.5	54.5	0.0
Eureka Avenue				
2	East of Imperial Highway	55.3	55.3	0.0
	West of Imperial Highway	57.1	57.2	+0.1
Lemon Drive				
3	East of Imperial Highway	60.0	60.2	+0.2
	West of Imperial Highway	51.6	51.6	0.0
6	East of Plumosa Drive	59.9	59.9	0.0
	West of Plumosa Drive	60.0	60.2	+0.2
7	East of Olinda Street	60.2	60.2	0.0
	West of Olinda Street	60.0	60.0	0.0
8	East of Lakeview Avenue	41.8	41.8	0.0
	West of Lakeview Avenue	59.9	59.9	0.0
Olinda Street				
4	East of Imperial Highway	53.8	54.5	+0.7
	West of Imperial Highway	56.3	56.3	0.0
Yorba Linda Boulevard	b =			
5	East of Imperial Highway	66.6	66.6	0.0
	West of Imperial Highway	65.2	65.2	0.0

Intersection	Roadway Segment	Buildout Year (2040)	Buildout Year (2040) Plus Project	Difference
9	East of Lakeview Avenue	66.8	66.8	0.0
	West of Lakeview Avenue	67.0	67.1	+0.1
Project Driveway				
10	East of Olinda Street	N/A	N/A	N/A
	West of Olinda Street	N/A	47.3	N/A

Source: Refer to **Appendix B** for roadway noise worksheets.

Note: N/A = No Data

Operational Noise Sources

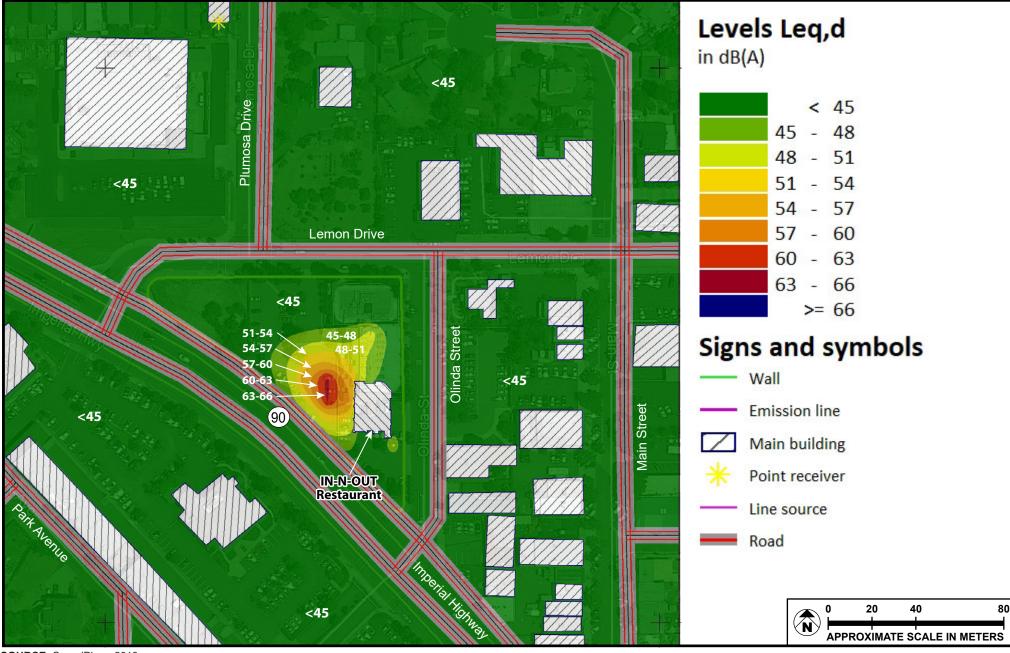
Truck deliveries would take place no more than once daily between the hours of 6:00 AM to 9:00 AM lasting less than an hour. Site access for these delivery trucks would be along Imperial Highway. The rear of the truck will stop adjacent to parking stall #36 with the lift gate facing E. Hamilton Avenue pointing away from any sensitive receptors. The nearest sensitive receptor would be located along Plumosa Drive approximately 200 feet to the north of the Project boundary. **Table 17: Modeled Exterior Noise Levels** provides the predicted noise levels which would be produced to the identified sensitive receptors. As mentioned previously, operational sources include the drive-through queuing, parking, amplified speech emanating from the speaker, and trash compactor uses. As shown in **Table 17**, operational noise levels would not cause any increases to the ambient noise environment (refer to **Table 4**) at the identified sensitive receptors along Plumosa Drive and Lemon Drive. The results of the predictive modeling process (Lday and Lnight) and the location of the sensitive receptors are shown graphically in **Figure 5: Operational Noise Level Contour Map**.

Table 17
Modeled Exterior Noise Levels

	Ambient Noise		roject Modeled e Levels	Significant
Site	Measurement (Leq)	Lday	Lnight	Impact?
Residential Along Plumosa Drive	59.1	29.6	26.5	No
Residential Along Lemon Drive (West)	58.7	18.3	15.2	No
Residential Along Lemon Drive (East)	56.0	22.0	18.9	No

Source: SoundPLAN (version 8.1)

 $\textit{Refer to \textbf{Appendix E} for SoundPLAN output sheets}.$



SOURCE: SoundPlan - 2019

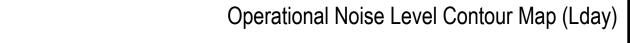
FIGURE **5a**





Meridian

FIGURE 5b





Monitoring Location: Site 1
Monitoring Date: 9/25/2019

Monitoring Period

Time	LAeq	LApeak	LASmax
7:34:44	68.3	89.1	76.6
7:35:44	75.1	92.3	77.5
7:36:44	67.5	88.7	74.4
7:37:44	74.4	97.6	80.5
7:38:44	67.0	87.6	74.4
7:39:44	74.9	95.6	80.5
7:40:44	68.9	86.5	73.9
7:41:44	75.1	94.4	79.5
7:42:44	70.4	96.3	77.2
7:43:44	74.4	93.0	78.4
7:44:44	68.7	90.7	78.7
7:45:44	74.4	91.5	78.1
7:46:44	68.5	87.5	74.2
7:47:44	73.5	92.1	77.6
7:48:44	74.9	101.4	87.0
7:49:44	74.7	90.5	78.1
		101.4	87.0

15-minute LAeq

Monitoring Location: Site 2 Monitoring Date: 9/25/2019

Monitoring Period

Time	LAeq	LApeak	LASmax
8:09:57	63.7	78.5	66.8
8:10:57	64.1	82.1	69.2
8:11:57	63.7	78.6	66.8
8:12:57	64.2	84.7	71.7
8:13:57	63.3	78.8	66.0
8:14:57	60.0	78.0	65.2
8:15:57	63.7	80.5	68.1
8:16:57	63.1	82.4	71.4
8:17:57	61.3	76.6	64.6
8:18:57	60.2	79.0	65.3
8:19:57	64.1	82.5	69.6
8:20:57	63.2	85.8	71.7
8:21:57	62.3	78.8	65.2
8:22:57	61.1	78.6	66.0
8:23:57	62.1	77.5	65.1
8:24:57	49.7	69.2	53.8
		85.8	71.7

15-minute LAeq

Monitoring Location: Site 3
Monitoring Date: 9/25/2019

Monitoring Period

Time	LAeq	LApeak	LASmax
7:52:58	72.9	91.2	78.8
7:53:58	76.3	95.0	80.1
7:54:58	71.2	93.9	77.9
7:55:58	77.4	96.7	82.8
7:56:58	69.9	91.5	78.0
7:57:58	77.2	99.0	84.1
7:58:58	71.6	91.5	76.3
7:59:58	77.7	96.2	82.2
8:00:58	69.0	91.5	77.1
8:01:58	77.3	96.3	82.4
8:02:58	70.2	89.8	75.1
8:03:58	76.2	94.0	80.1
8:04:58	71.7	93.3	78.3
8:05:58	76.3	94.0	80.0
8:06:58	72.2	91.3	77.5
8:07:58	73.4	89.9	76.9
		99.0	84.1

15-minute LAeq

Monitoring Location: Site 4
Monitoring Date: 9/25/2019

Monitoring Period

Time	LAeq	LApeak	LASmax
8:48:09	56.2	L 79.3	65.2
8:49:09	54.8	79.1	65.3
8:50:09	59.2	87.1	72.4
8:51:09	54.7	7 79.6	65.4
8:52:09	51.2	L 74.9	61.6
8:53:09	48.3	71.1	61.4
8:54:09	56.5	78.9	65.2
8:55:09	55.7	7 81.0	66.2
8:56:09	52.8	75.3	60.9
8:57:09	54.8	76.7	63.2
8:58:09	57.5	88.2	71.6
8:59:09	58.2	L 84.6	71.6
9:00:09	59.2	L 83.3	72.1
9:01:09	55.7	7 78.1	65.2
9:02:09	56.3	85.1	68.1
9:03:09	54.6	5 75.2	58.4
		88.2	72.4

15-minute LAeq

Monitoring Location: Site 5
Monitoring Date: 9/25/2019

Monitoring Period

Time	LAeq	LApeak	LASmax
8:27:17	60.1	84.4	70.6
8:28:17	55.5	81.3	67.8
8:29:17	55.5	81.4	67.8
8:30:17	60.4	85.0	70.8
8:31:17	58.4	84.1	67.7
8:32:17	57.8	81.8	66.2
8:33:17	62.0	88.7	69.0
8:34:17	62.7	87.3	72.4
8:35:17	62.0	97.2	71.3
8:36:17	53.4	75.8	63.2
8:37:17	56.8	82.7	68.1
8:38:17	56.8	81.2	67.4
8:39:17	61.6	88.8	72.6
8:40:17	58.5	83.5	68.4
8:41:17	57.6	84.7	68.8
8:42:17	49.9	63.9	51.1
		97.2	72.6

15-minute LAeq

Monitoring Location: Site 6
Monitoring Date: 9/25/2019

Monitoring Period

Time	LAeq	LApeak	LASmax
9:11:10	60.3	80.2	67.5
9:12:10	56.5	78.2	62.7
9:13:10	58.1	77.9	64.9
9:14:10	55.6	72.7	60.2
9:15:10	58.2	76.0	62.7
9:16:10	56.2	72.4	59.5
9:17:10	61.1	83.0	67.9
9:18:10	54.3	73.8	60.1
9:19:10	59.5	84.3	69.0
9:20:10	59.4	86.3	69.6
9:21:10	57.5	80.3	66.6
9:22:10	61.7	82.0	69.6
9:23:10	58.3	80.3	66.9
9:24:10	60.4	79.3	66.7
9:25:10	60.0	81.1	68.3
9:26:10	50.8	74.3	53.0
		86.3	69.6

15-minute LAeq



10 NOISE LEVEL CONTOURS

												Traffic	Volume	s					Ref	. Energ	y Levels	Dist	Ld			Le			L	.n			
					Design	Dist. from	В	Barrier	Vehic	leMix										_	-												
ROADWAY NAME			Median			Center to						Day	Eve N	ight MT	d HTd	MTe	HTe N	1Tn H	Γn A	MT	HT	Adj	Α	MT F	HT Tota	al A	MT	HT	Total A	A M	т н	Total	
Segment	Land Use	Lanes	Width	Volume	(mph)	ReceptorF	actor (1 d	dB(A)	Trucks	Trucks	CNEL	-																					
Olinda St n/o Project Dwy																																	
Existing Weekday (Evening)		2	0	960	40	75	0	0	1.8%	0.7%	52.6	746		92 15		1	0	1														35.8 40.2	
Existing Saturday (Mid-Day)	4	2	0	888	40	75	0	0	1.8%	0.7%	52.3			85 14		1	0	1	1 67		3 81.2											35.4 39.9	
Existing plus Project Weekday (Evening)	4	2	0	1,000	40	75	0	0	1.8%	0.7%	52.8			96 16		1	0	1			3 81.2											35.9 40.4	
Existing plus Project Saturday (Mid- Day)		2	0	928	40	75	0	0	1.8%	0.7%	52.5	– .		89 15	-	1	0	1														35.6 40.1	
Opening Year (2021) Without Project Weekday (Evening)	4	2	0	1,096	40	75	0	0	1.8%	0.7%	53.2			105 17		1	0	1														36.3 40.8	
Opening Year (2021) Without Project Saturday (Mid-Day)		2	0	1,032	40	75	0	0	1.8%	0.7%	52.9			99 16	-	1	0	1			3 81.2											36.1 40.6	
Opening Year (2021) with Project Weekday (Evening)	4	2	0	1,136	40	75	0	0	1.8%	0.7%	53.3			109 18		1	-	2			3 81.2											36.5 41.0	
Opening Year (2021) with Project Saturday (Mid-Day)		2	•	1,072	40	75	0	0	1.8%	0.7%	53.1			103 17		1	0	1														36.2 40.7	
Build-out Year (2040) without Project Weekday (Evening)	4	2	0	1,312	40	75	0	0	1.8%	0.7%		1,019		126 21		1		2														37.1 41.6	
Build-out Year (2040) without Project Saturday (Mid-Day)		2	0	1,240	40	75	0	0	1.8%	0.7%	53.7			119 20	-	1	-	2			3 81.2											36.9 41.3	
Build-out Year (2040) with Project Weekday (Evening)	-	2	0	1,352	40	75 75	0	0	1.8%	0.7%				130 21		1		-														37.2 41.7	
Build-out Year (2040) with Project Saturday (Mid-Day)		2	U	1,280	40	/5	0	0	1.8%	0.7%	53.9	995	163 1	123 20) 8	1	0	2	1 67	4 /6.	3 81.2	-1.8	53.3	45.4	46.2 54.	.6 50.7	3 37.8	36.1	50.7	37.1 3	96.0 3	37.0 41.5	
Olinda St s/o Project Dwy	1																																
Existing Weekday (Evening)	1	2	0	960	40	75	0	0	1.8%	0.7%	200000000000000000000000000000000000000			92 15		1	0	1														35.8 40.2	
Existing Saturday (Mid-Day)		2	0	888	40	75	0	0	1.8%	0.7%	52.3			85 14		1	0	1	1 67		3 81.2				44.7 53.							35.4 39.9	
Existing plus Project Weekday (Evening)		2	0	1,432	40	75	0	0	1.8%	0.7%		1,113		137 23		1		2			3 81.2											37.5 42.0	
Existing plus Project Saturday (Mid- Day)	4	2	0	1,128	40	75	0	0	1.8%	0.7%	53.3			108 18	3 7	1	0	2	1 67		3 81.2											36.5 40.9	
Opening Year (2021) Without Project Weekday (Evening)	4	2	0	1,096	40	75	0	0	1.8%	0.7%	53.2			105 17	7 7	1	0	1			3 81.2				45.6 53.							36.3 40.8	
Opening Year (2021) Without Project Saturday (Mid-Day)	4	2	0	1,032	40	75	0	0	1.8%	0.7%	52.9			99 16	-	1	0	1			3 81.2											36.1 40.6	
Opening Year (2021) with Project Weekday (Evening)		2	0	1,568	40	75	0	0	1.8%	0.7%		1,218		151 25		1	-	2			3 81.2											37.9 42.4	
Opening Year (2021) with Project Saturday (Mid-Day)		2	0	1,272	40	75	0	0	1.8%	0.7%	53.8	988		22 20		1	-	2			3 81.2				46.2 54.							37.0 41.5	
Build-out Year (2040) without Project Weekday (Evening)	4	2	0	1,312	40	75	0	0	1.8%	0.7%	- 0.000 TO 0.000	1,019		126 21		1	-	2			3 81.2											37.1 41.6	
Build-out Year (2040) without Project Saturday (Mid-Day)	-	_	0	1,240	40	75	0	0	1.8%	0.7%	53.7			119 20	-	2	-	2														36.9 41.3	
Build-out Year (2040) with Project Weekday (Evening) Build-out Year (2040) with Project Saturday (Mid-Day)	-	2	0	1,784 1.480	40 40	75 75	0	0	1.8% 1.8%	0.7%		1,386 1,150		171 28 142 23		2		2														38.4 42.9 37.6 42.1	
Build-out Year (2040) with Project Saturday (Mid-Day)		2	U	1,400	40	75	U	U	1.070	0.776	34.3	1,150	100 1	142 23	9	'	U	2	1 07	4 /0.	3 01.2	-1.0	55.9	40.0	40.9 33.	.2 50.:	9 30.3	30.7	31.3	31.1 3	0.0	7.0 42.1	
Project Dwy e/o Olinda St	1																																
Existing Weekday (Evening)		2	0	0	40	75	0	0	1.8%	0.7%	#NUM!		•	0 0	0	0	•	•							##### ####					#### #	### #	### ####	
Existing Saturday (Mid-Day)		2	0	0	40	75	0	0	1.8%	0.7%	#NUM!		0	0 0	0	0	-	-	0 67						*******				##### #	#### #	### #	### ####	
Existing plus Project Weekday (Evening)		2	0	0	40	75	0	0	1.8%	0.7%	#NUM!		0	0 0	0	0	-	•							******			#####	##### #	#### #	### #	### ####	
Existing plus Project Saturday (Mid- Day)	4	2	0	0	40	75	0	0	1.8%	0.7%	#NUM!		0	0 0	0	0	-	-	0 67		3 81.2			#### #		# ###	# ####	#####	##### #	#### #	### #	### ####	
Opening Year (2021) Without Project Weekday (Evening)	4	2	0	0	40	75	0	0	1.8%	0.7%	#NUM!		0	0 0	0	0	•	-							*******	# ###	# ####	#####	##### #	#### #	### #	<i>### ####</i>	
Opening Year (2021) Without Project Saturday (Mid-Day)		2	0	0	40	75	0	0	1.8%	0.7%	#NUM!		0	0 0	0	0	-	-	0 67		3 81.2			##### #		# ###	# ####	#####	##### #	#### #	### #	<i>### ####</i>	
Opening Year (2021) with Project Weekday (Evening)		2	0	0	40	75	0	0	1.8%	0.7%	#NUM!		0	0 0	0	0	-	-						##### #		m mmm	# ####	#####	###### #	#### #	#### #	<i>### ####</i>	
Opening Year (2021) with Project Saturday (Mid-Day)	1	2	0	0	40	75	0	0	1.8%	0.7%	#NUM!		U	0 0	0	0	-	-							******	## ####	# #####	#####	##### #	##### ##	#### #	### #####	
Build-out Year (2040) without Project Weekday (Evening)	4	2	0	0	40	75	0	0	1.8%	0.7%	#NUM!		U	0 0	0	0	-	-			3 81.2			##### #	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	## ####	# ####	#####	##### #	##### ##	#### ##	ATT# #####	
Build-out Year (2040) without Project Saturday (Mid-Day)	1	2	0	0	40 40	75	0	0	1.8% 1.8%	0.7%	#NUM! #NUM!		-	0 0	0	0	-		0 67		3 81.2			#######################################		# ###	# ####	#####	##### #	##### ##	#### ## #### #	/////////////////////////////////////	
Build-out Year (2040) with Project Weekday (Evening) Build-out Year (2040) with Project Saturday (Mid-Day)	-	2	0	0	40 40	75 75	0	0	1.8%				•	0 0	-	0	-	-			3 81.2				****** ***** ****** *****	m mmm	# ####	#####	#######################################	******	#### ##	<i></i>	
Build-out Year (2040) with Project Saturday (Mid-Day)	j	2	U	U	40	75	U	U	1.070	0.770	#NUIVI!	. 0	U	0 0	U	U	U	0	0 67	4 /0.	3 01.2	-1.0	********	HHHH H	······· ·····		·· ******	********	******* **		······ ···		
Project Dwy w/o Olinda St																																	
Existing Weekday (Evening)	1	2	0	0	40	75	0	0	1.8%	0.7%	#NUM!		0	0 0	0	0	0	•							#### ####				#### #	#### #	### #	### ####	
Existing Saturday (Mid-Day)	1	2	0	0	40	75	0	0	1.8%	0.7%	#NUM!	0	•	0 0	0	0	-	-	0 67						##### ####						### #	### ####	
Existing plus Project Weekday (Evening)	1	2	0	512	40	75	0	0	1.8%	0.7%	49.9	398		49 8	3	0	0															33.0 37.5	
Existing plus Project Saturday (Mid- Day)		2	0	280	40	75	0	0	1.8%	0.7%	47.3	218		27 4	2	0	-	0			3 81.2								44.1	30.5 2	29.4 3	30.4 34.9	
Opening Year (2021) Without Project Weekday (Evening)		2	0	0	40	75	0	0	1.8%	0.7%	#NUM!		0	0 0	0	0	•	0			3 81.2				*******				##### #	#### #	### #	### #####	
Opening Year (2021) Without Project Saturday (Mid-Day)		2	0	0	40	75	0	0	1.8%	0.7%	#NUM!	. 0	0	0 0	0	0									*******					mmr m	### #	### ####	
Opening Year (2021) with Project Weekday (Evening)	1	2	0	512	40	75	0	0	1.8%	0.7%	49.9	398		49 8	3	0	0															33.0 37.5	
Opening Year (2021) with Project Saturday (Mid-Day)	4	2	0	280	40	75	0	0	1.8%	0.7%	47.3	218		27 4	2	0		-	0 67										44.1	30.5 2	29.4 3	30.4 34.9	
Build-out Year (2040) without Project Weekday (Evening)	1	2	0	0	40	75	0	0	1.8%	0.7%	#NUM!		•	0 0	0	0	•	•	0 67		3 81.2				******* ******		# ####		##### #	#### #	#### #	<i>#### #####</i>	
Build-out Year (2040) without Project Saturday (Mid-Day)	4	2	0	0	40	75	0	0	1.8%	0.7%	#NUM!		•	0 0	0	0	-	0							******					mmr m	### #	### #####	
Build-out Year (2040) with Project Weekday (Evening)	4	2	0	512	40	75	0	0	1.8%	0.7%	49.9	398		49 8		0																33.0 37.5	
Build-out Year (2040) with Project Saturday (Mid-Day)	J	2	0	280	40	75	0	0	1.8%	0.7%	47.3	218	36	27 4	2	0	0	0	0 67	4 /6.	3 81.2	-1.8	46.7	38.8	39.6 48.	.0 43.	/ 31.2	29.5	44.1	30.5 2	29.4 3	30.4 34.9	

 Assumed 24-Hour Traffic Distribution:
 Day
 Evening
 Night

 Total ADT Volumes
 77.70% 12.70% 9.60%
 9.60%

 Medium-Duty Trucks
 87.43% 50.76
 7.52%

 Heavy-Duty Trucks
 89.10% 2.84% 0.60%
 30.6%

roject Name					rev. (D	ate)		If Peak Hour = 6% of ADT, Scaling Factor = 16.667					
eekday All Hours								If Peak Hour = 7% of ADT, Scaling Factor = 14,286					
								If Peak Hour = 8% of ADT, Scaling Factor = 12.5					
Intersection:	1							If Peak Hour = 9% of ADT, Scaling Factor = 11.111					
Imperial Hwy & Casa Loma Ave								If Peak Hour = 10% of ADT, Scaling Factor = 10					
										ADT			
			Imperial Hwy					Road	Imper	rial Hwy	Casa L	oma Ave	
			Southbound					Leg	North of	South of	East of	West of	
				right	throug	h <u>left</u>		Cross Street	Casa L	oma Ave	Imper	ial Hwy	
			Existing Weekday (Evening)	55	1,595	24		Existing Weekday (Evening)	28,912.0	28,488.0	1,040.0	1,448.0	
			Existing Saturday (Mid-Day)	49	1,186	6		Existing Saturday (Mid-Day)	19,760.0	19,648.0	568.0	1,224.0	
			Existing plus Project Weekday (Evening)	15	1,608	24		Existing plus Project Weekday (Evening)	28,720.0	28,616.0	1,040.0	1,128.0	
			Existing plus Project Saturday (Mid- Day)	49	1,202	6		Existing plus Project Saturday (Mid- Day)	19,848.0	19,752.0	576.0	1,232.0	
			Opening Year (2021) Without Project Weekday (Evening)	15	1,702	24		Opening Year (2021) Without Project Weekday (Evening)	30,368.0	30,376.0	1,104.0	1,192.0	
			Opening Year (2021) Without Project Saturday (Mid-Day)	51	1,307	7		Opening Year (2021) Without Project Saturday (Mid-Day)	21,720.0	21,696.0	648.0	1,328.0	
			Opening Year (2021) with Project Weekday (Evening)	15	1,715	24		Opening Year (2021) with Project Weekday (Evening)	30,496.0	30,504.0	1,104.0	1,192.0	
			Opening Year (2021) with Project Saturday (Mid-Day)	15	1,323	7		Opening Year (2021) with Project Saturday (Mid-Day)	21,520.0	21,800.0	656.0	1,048.0	
			Build-out Year (2040) without Project Weekday (Evening)	19	2,069	30		Build-out Year (2040) without Project Weekday (Evening)	36,952.0	36,944.0	1,360.0	1,480.0	
			Build-out Year (2040) without Project Saturday (Mid-Day)	62	1,580	9		Build-out Year (2040) without Project Saturday (Mid-Day)	26,272.0	26,232.0	800.0	1,608.0	
			Build-out Year (2040) with Project Weekday (Evening)	19	2,082	30		Build-out Year (2040) with Project Weekday (Evening)	37,080.0	37,072.0	1,360.0	1,480.0	
			Build-out Year (2040) with Project Saturday (Mid-Day)	62	1,596	9		Build-out Year (2040) with Project Saturday (Mid-Day)	26,360.0	26,336.0	808.0	1,616.0	

1 NOISE LEVEL CONTOURS

Part	-												Traffic\	Volumes						Ref. Fr	nerav I.e	vels Dis	t I.d			Le			Ln			
Second						Design	Dist. from		Barrier	Vehid	eMix			· oranico						1101. 21	.u. g,o	ruic Dic										
Segret S	ROADWAY NAME			Median	ADT							dB(A)	Dav E	ve Niah	nt MTd	HTd I	МТе НТ	e MTr	n HTn	Α Ι	ит н	Γ Ad	Α	MT	нт т	otal A	MT	HT T	Total A	MT	HT Tot	tal
Part Control Secretary Months Part Control Secretary Months Contr	Segment	Land Use	Lanes	Width	Volume																											
Final Plant State (1984) 1.0 1	Imperial Hwy n/o Casa Loma Ave	1																														
Section places Processing (Section places Processing (Section places) Section places (Section places) Section places) Section places (Section places) Section places) Section places (Section places) Section places) Section places) Section places (Section places) Section places) Section places) Section places (Section places) Section pl	Existing Weekday (Evening)		2	0	28,912	40	75	0	0	1.8%	0.7%	67.4	##### #	*****	# 455	180	26 6	39	16	67.4	76.3 8	1.2 -1.	8 66.8	3 59.0	59.8	68.2 63.	8 51.4	49.6	64.2 50	.6 49.5	5 50.5 55	٥.٥
Section Process Standard (Mist Cyc) 2	Existing Saturday (Mid-Day)		2	0	19,760	40	75	0	0	1.8%	0.7%	65.8	##### #	#### ####	# 311	123	18 4	1 27	11	67.4	76.3 8	1.2 -1.	8 65.2	57.3	58.1	66.5 62.	2 49.7	48.0	62.6 49	.0 47.8	3 48.9 53	3.4
Second Year COUNTY Note A Person Standard (Window) Person Standard (Window) Person Standard (Wi	Existing plus Project Weekday (Evening)		2	0	28,720	40	75	0	0	1.8%	0.7%	67.4	##### #	·///// //////	# 452	179	26 6	39	16	67.4	76.3 8	1.2 -1.	8 66.8	58.9	59.8	68.1 63.	8 51.3	49.6	64.2 50	.6 49.5	5 50.5 55	i.0
Second Year Coll Miles Coll Miles Coll Miles Coll Miles Coll Miles Coll Miles Mile	Existing plus Project Saturday (Mid- Day)		2	0	19,848	40	75	0	0	1.8%	0.7%	65.8	#### #	 	# 312	124	18 4	1 27	11	67.4	76.3 8	1.2 -1.	8 65.2	57.3	58.1 6	66.5 62.	2 49.7	48.0	62.6 49	.0 47.9	9 48.9 53	3.4
Security Name Coll Mark Project Marked Michael 2				0		40	75	0	0	1.8%	0.7%	67.6	##### #	#### ####	# 478	189	28 6	3 41	17													
Control (CECT) 1 and Protect Standards (Michigan) 2 0 2,15.07 d 0 7.5 0 0 1 99. 0 1.90 0 1.			_					-				10100000000	##### #	#### ####	n 042																	
Section Process Section Process Section Process Section Process Section Process Proc																																
Substant Varia (2004) with Present Stantage (Mate Days)			_					-	•						, 000																	
Substant Variable (1998) Property Name (1												10100000000	##### #																			
			_					-					#######################################																			
Importal How yi Creal Lorns Ave			_						-				#######################################																			
Exement Continue	Build-out Year (2040) with Project Saturday (Mid-Day)	l	2	U	26,360	40	75	U	U	1.8%	0.7%	67.0	###### #		# 415	104	24 5	30	15	67.4	70.3 8	1.2 -1.	8 00.4	9.80	59.4	07.7 63.	4 51.0	49.2	63.8 50	.2 49.	1 50.1 54	٥.,
Existing Standards (Medic Clays) Existing Standards (Medic Clays) 2	Imperial Hwy s/o Casa Loma Ave																															
Existing purposed Proceed Weededay (Severing)	Existing Weekday (Evening)		2	0	28,488	40	75	0	0	1.8%	0.7%	67.3	##### #	*****	# 448	178	26 6	39	16	67.4	76.3 8 ⁻	1.2 -1.	8 66.	7 58.9	59.7	68.1 63.	8 51.3	49.5	64.2 50	.6 49.4	50.5 55	٥.٥
Eastern Protect Standard Mich Control Control Protect Standard Mich Control Co	Existing Saturday (Mid-Day)		2	0	19,648	40	75	0	0	1.8%	0.7%	65.7	##### #	HHH HHH	# 309	123	18 4	1 27	11	67.4	76.3 8	1.2 -1	8 65.	57.3	58.1	66.5 62.	2 49.7	47.9	62.5 49	.0 47.8	3 48.9 53	3.3
Deputing Page Wilfrook Project Wilford Project State Page Page Page Page Page Page Page Page Page Page Page Page Page Page Page Page Page Page Page Page Pag	Existing plus Project Weekday (Evening)		2	0	28,616	40	75	0	0	1.8%	0.7%	67.4	##### #	·///// //////	# 450	178	26 6	39	16	67.4	76.3 8	1.2 -1	8 66.8	58.9	59.7	68.1 63.	8 51.3	49.6	64.2 50	.6 49.5	5 50.5 55	i.0
Depump Year COLD With Project Medical With Project With Pro	Existing plus Project Saturday (Mid- Day)		2	0	19,752	40	75	0	0	1.8%	0.7%	65.8	#### #	 	# 311	123	18 4	1 27	11	67.4	76.3 8	1.2 -1.	8 65.2	57.3	58.1 6	66.5 62.	2 49.7	48.0	62.6 49	.0 47.8	3 48.9 53	3.4
Deputing Year (2021) with Project Weekday (Eventring) 2 0 30.504 40 75 0 0 1 18% 0.7% 675 6 mean ####### ### 480 490 28 6 41 17 67.4 76.3 81 2.1 48 67.0 59.2 60.0 68.4 64.5 50.9 447.5 49.8 65.5 50.0 40.7 50.0 0 1 18% 0.7% 68.5				-				-	-				##### #	#### ####	# 478																	
Denning year (PACE) with Protest Stantary (Mid-Day) 2 0 21,80 0 40 75 0 0 1 18% 07% 66.2 mass stantary states (128) 34 7 50 21 67.4 76.3 812 1.8 66 92.4 50.7 68 69 92.6 50.7 44.8 63.0 94.4 43.4 43. 49.3 53.8				-					-																							
Build-out Year (2040) without Project Weedday (Eventing) 2 0 36,944 40 75 0 0 1.8% 07% 685 mass season season 43 16 2.0 3 7 7 6 3 12 1.8 67 9 600 60 89 22 40 75 0.0 51.6 56 1.0 154 54 54 54 54 54 54 54 54 54 54 54 54 5				-				-	-																							
Build-out Year (2640) with project Saturdary (Mid-Day)				-					-				#######################################	******	# 343																	
Substance 1				-				-	-				********		# 281																	
Substitive Casa Lorna Ave do Importal Hwy				-									******* **		,																	
Casa Loma Ave do Importial Hwy Existing Weekday (Evening) 2 0 1.040				-					-				##### #	 																		
Existing Meekday (Evening)																																
Existing plus Project Weekday (Evening) 2 0 1,040 40 75 0 0 1,8% 07% 53.0 80 1,8% 07% 5																																
Existing plus Project Meskday (Evening) 2 0 1,040 40 75 0 0 1,8% 0,7% 53.0 80.8 32 100 16 6 1 0 1 1 67.4 76.3 81.2 -1.8 45.8 44.5 45.3 53.7 49.4 39.9 35.2 49.8 39.3 35.2 49.8 39.8 35.2 38.8 38.0 39.0				-				-	-							6	1 (0 1	1													
Existing plus Project Saturday (Mid-Day) 2 0 576 40 75 0 0 1.8% 07% 53.2 88 140 10 1 0 67.4 76.3 81.2 -1.8 49.8 41.9 42.8 51.1 48.8 34.4 32.6 47.2 33.5 33.5 38.0								-	-							4	1 () 1	0													
Depring Year (2021) Without Project Saturday (Mid-Day)				-				-	-							6	1 () 1	1													
Depring Year (2021) Without Project Staurday (Mid-Day) 2 0 648				-												7	1 () 1	1													
Dening Year (2021) with Project Staurday (Mid-Day)				-				-	-							1	1 (1	0													
Company Comp				-				-								7	1 (1	1													
Existing Weekday (Evening) 2 0 1,380 40 75 0 0 1.8% 0.7% 54.1 ### 184 139 23 9 1 0 2 1 67.4 76.3 81.2 -1.8 53.5 45.7 46.5 54.9 50.6 38.1 36.3 50.9 37.4 36.2 37.3 41.8									-							1	1 (1	,													
Euild-out Year (2040) without Project Saturday (Mid-Day) 2 0 800 40 75 0 0 1.8% 0.7% 51.8 62 102 77 13 5 1 0 1 0 67.4 76.3 81.2 -1.8 51.2 43.4 44.2 52.6 48.2 35.8 34.0 48.6 35.1 33.9 35.0 39.4				-												8																
Build-out Year (2040) with Project Weekday (Evening) 2 0 1,360 40 75 0 0 1.8% 0.7% 54.1 ### 173 131 21 8 1 0 2 1 67.4 76.3 81.2 -1.8 53.5 45.7 46.5 54.9 50.6 38.1 36.3 50.9 37.4 36.2 37.3 41.8				0	,			-	-							5			0													
Casa Lorna Ave w/oImperial Hwy Existing Weekday (Evening) 2 0 1,448			2	0	1,360	40	75	0	0		0.7%	54.1	#####	173 131	21	8	1 (2	1													
Existing Weekday (Evening) 2 0 1,448 40 75 0 0 1.8% 0.7% 54.4 ### 18 41 39 23 9 1 0 2 1 67.4 76.3 81.2 -1.8 53.8 45.9 46.8 55.1 50.8 38.4 36.6 51.2 37.6 36.5 37.5 42.0 52.5 52.5 50.9 38.5 37.5 42.0 52.5 52.5 50.9 38.5 37.5 42.0 52.5 52.5 50.9 38.5 37.5 42.0 52.5 50.9 38.5 37.5 42.0 52.5 50.9 38.5 37.5 42.0 52.5 50.9 38.5 37.5 42.0 52.5 50.9 38.5 37.5 42.0 52.5 50.9 38.5 37.5 42.0 52.5 50.9 38.5 37.5 42.0 52.5 50.9 38.5 37.5 42.0 52.5 50.9 38.5 38.5 38.4 38.4 52.1 52.5 52.5 50.9 38.5 38.5 38.4 38.4 52.1 52.5 52.5 50.9 38.5 38.5 38.4 38.4 52.1 52.5 52.5 52.5 52.5 52.5 52.5 52.5	Build-out Year (2040) with Project Saturday (Mid-Day)		2	0	808	40	75	0	0	1.8%	0.7%	51.9	628	103 78	13	5	1 () 1	0	67.4	76.3 8	1.2 -1	8 51.3	3 43.4	44.2	52.6 48.	3 35.8	34.1	48.7 35	.1 34.0	35.0 39).5
Existing Weekday (Evening) 2 0 1,448 40 75 0 0 1.8% 0.7% 54.4 ### 18 41 39 23 9 1 0 2 1 67.4 76.3 81.2 -1.8 53.8 45.9 46.8 55.1 50.8 38.4 36.6 51.2 37.6 36.5 37.5 42.0 52.5 52.5 50.9 38.5 37.5 42.0 52.5 52.5 50.9 38.5 37.5 42.0 52.5 52.5 50.9 38.5 37.5 42.0 52.5 50.9 38.5 37.5 42.0 52.5 50.9 38.5 37.5 42.0 52.5 50.9 38.5 37.5 42.0 52.5 50.9 38.5 37.5 42.0 52.5 50.9 38.5 37.5 42.0 52.5 50.9 38.5 37.5 42.0 52.5 50.9 38.5 37.5 42.0 52.5 50.9 38.5 38.5 38.4 38.4 52.1 52.5 52.5 50.9 38.5 38.5 38.4 38.4 52.1 52.5 52.5 50.9 38.5 38.5 38.4 38.4 52.1 52.5 52.5 52.5 52.5 52.5 52.5 52.5	loss to see Assessed these	1																														
Existing plus Project Weekday (Evening) 2 0 1,224 40 75 0 0 1.8% 0.7% 53.7 951 155 118 19 8 1 0 2 1 67.4 76.3 81.2 -1.8 53.1 45.2 46.0 54.4 50.1 37.6 35.9 50.5 36.9 35.8 36.8 41.3 Existing plus Project Weekday (Evening) 2 0 1,232 40 75 0 0 1.8% 0.7% 53.6 95.7 95.7 10 0 2 1 67.4 76.3 81.2 -1.8 53.1 45.2 46.0 54.4 50.1 37.6 35.9 50.5 36.9 35.8 36.8 41.3 Opening Year (2021) Without Project Weekday (Evening) 2 0 1,232 40 75 0 0 1.8% 0.7% 53.6 95.7 95.7 10 0 2 1 67.4 76.3 81.2 -1.8 53.1 45.2 40.5 45.1 49.7 37.3 55.5 50.1 36.5 95.8 36.8 41.3 Opening Year (2021) Without Project Weekday (Evening) 2 0 1,328 40 75 0 0 1.8% 0.7% 53.6 95.6 11.1 14 19 7 1 0 2 1 67.4 76.3 81.2 -1.8 53.1 45.2 40.5 45.5 50.0 35.9 55.8 36.8 41.3 Opening Year (2021) Without Project Sturday (Mid-Day) 3 0 1,328 40 75 0 0 1.8% 0.7% 53.6 95.6 15.1 11.4 19 7 1 0 2 1 67.4 76.3 81.2 -1.8 53.4 45.6 46.5 44.5 50.3 50.0 37.5 35.8 50.1 36.8 36.8 41.3 Opening Year (2021) Without Project Weekday (Evening) 4 0 1,328 40 75 0 0 1.8% 0.7% 53.6 95.6 15.1 11.4 19 7 1 0 2 1 67.4 76.3 81.2 -1.8 53.4 45.6 46.5 45.8 50.5 30.0 37.5 35.8 50.1 36.8 36.8 41.3 Opening Year (2021) Without Project Weekday (Evening) 4 0 1,328 40 75 0 0 1.8% 0.7% 53.6 95.6 15.1 11.4 19 7 1 0 2 1 67.4 76.3 81.2 -1.8 53.4 45.6 46.5 45.8 50.5 30.0 37.5 35.8 50.1 36.8 36.8 41.3 Opening Year (2021) With Project Weekday (Evening) 5 0 1,480 40 75 0 0 1.8% 0.7% 53.6 95.1 11.1 19 7 1 0 1 1 67.4 76.3 81.2 -1.8 53.4 45.6 46.5 45.8 50.3 40.0 37.5 35.8 50.1 36.8 36.8 36.1 37.2 41.2 Opening Year (2040) Without Project Weekday (Evening) 5 0 1,480 40 75 0 0 1.8% 0.7% 53.6 95.1 11.1 18 10 2 1 67.4 76.3 81.2 -1.8 53.4 45.6 46.5 55.2 50.3 85.0 57.1 36.3 50.5 36.3 45.1 40.8 40.8 50.3 40.0 40.8 50.2 50.0 37.5 38.5 36.3 40.1 40.8 40.8 50.3 40.0 40.8 50.2 50.0 37.5 38.5 36.3 40.1 40.8 40.8 40.8 40.8 40.8 40.8 40.8 40.8				0	4.440	40	75			4.00/	0.70/			404 400						07.4	700 0		0 50	45.0	40.0	FF 4 F^		20.0	F4 0 07			
Existing plus Project Weekday (Evening) 2 0 1,128 40 75 0 0 1.8% 0.7% 53.3 876 143 108 18 7 1 0 2 1 1 67.4 76.3 81.2 -1.8 52.7 44.9 45.7 54.1 49.7 37.3 35.5 50.1 36.5 36.3 49.4 34.3 41.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0								-	•							9	1 (J 2	1													
Existing plus Project Saturday (Mid-Day) 2 0 1,232 40 75 0 0 1.8% 0.7% 53.7 95.7 16 118 19 8 1 0 2 1 1 67.4 76.3 81.2 -1.8 53.1 45.2 46.1 54.4 50.1 37.7 35.9 50.5 36.9 35.8 36.8 41.3 0									-							7		_	1													
Depening Year (2021) Without Project Weekday (Evening) 2 0 1,192 40 75 0 0 1.8% 0.7% 53.6 926 151 114 19 7 1 0 2 1 1 67.4 76.3 81.2 -1.8 53.0 45.1 45.9 54.3 50.0 37.5 35.8 50.4 36.8 35.6 36.7 41.2			_					-								8			1													
Depening Year (2021) Without Project Saturday (Mid-Day) 2 0 1,328 40 75 0 0 1.8% 0.7% 54.0 ### 169 127 21 8 1 0 2 1 67.4 76.3 81.2 -1.8 53.4 45.6 46.4 54.8 50.5 38.0 36.2 50.8 37.3 36.1 37.2 41.6			_	-												7	1 (_	1													
Opening Year (2021) with Project Weekday (Evening) 2 0 1,192 40 75 0 0 1.8% 0.7% 53.6 92.6 151 114 19 7 1 0 2 1 67.4 76.3 81.2 -1.8 53.0 45.1 45.9 54.3 50.0 37.5 58.6 50.7 41.2 Opening Year (2021) with Project Saturday (Mid-Day) 2 0 1,048 40 75 0 0 1.8% 0.7% 53.0 81.4 13.3 101 16 7 1 0 1 67.4 76.3 81.2 -1.8 52.4 45.4 53.7 49.4 37.0 35.1 36.1 40.1 40.1 40.1 40.1 1 67.4 76.3 81.2 -1.8 52.4 45.4 55.7 49.8 36.2 36.1 36.1 40.1 40.2 1 67.4 76.3 81.2 -1.8 52.4 45.5 55.0 36.7 5			_		.,											8	1 (_	1													
Opening Year (2021) with Project Saturday (Mid-Day) 2 0 1,048 40 75 0 0 1.8% 0.7% 53.0 814 133 101 16 7 1 0 1 1 67.4 76.3 81.2 -1.8 52.4 44.5 53.7 49.4 37.0 35.2 49.8 36.2 35.1 36.0 36.0 37.6 41.8 12.4 2.3 81.2 -1.8 52.4 44.5 45.7 49.8 36.2 35.1 36.0 36.0 36.0 37.6 41.8 14.2 23.9 1 0 2 1 67.4 76.3 81.2 -1.8 52.9 94.9 37.0 35.2 49.8 36.2 35.1 36.0 36.0 37.6 41.8 14.2 23.9 1 0 2 1 67.4 76.3 81.2 -1.8 53.9 46.0 45.9 35.7 51.3 37.7 15.0 37.7 36.9 42.1			_	0					0							7	1 (-	1													
Build-out Year (2040) without Project Weekday (Evening) 2 0 1,480 40 75 0 0 1.8% 0.7% 54.5 #### 188 142 23 9 1 0 2 1 67.4 76.3 81.2 -1.8 53.9 46.0 46.9 55.2 50.9 38.5 36.7 51.3 37.7 36.8 37.6 42.1 5uld-out Year (2040) without Project Weekday (Evening) 2 0 1,608 40 75 0 0 1.8% 0.7% 54.5 #### 20 15.4 50 1 0 2 1 67.4 76.3 81.2 -1.8 53.9 46.0 46.9 55.2 50.9 38.5 36.7 51.3 37.7 36.8 37.6 42.1 50.0 \$1.0 \$1.0 \$1.0 \$1.0 \$1.0 \$1.0 \$1.0 \$		1	2	0	1,048	40	75	0	0					133 101	16	7	1 () 1	1													
Build-out Year (2040) without Project Saturday (Mid-Day) 2 0 1,608 40 75 0 0 1.8% 0.7% 54.9 ### 204 154 25 10 1 0 2 1 67.4 76.3 81.2 -1.8 54.3 46.4 47.2 55.6 51.3 38.8 37.1 51.7 38.1 36.9 38.0 42.5 Build-out Year (2040) with Project Weekday (Evening) 2 0 1,480 40 75 0 0 1.8% 0.7% 54.5 ### 188 142 23 9 1 0 2 1 67.4 76.3 81.2 -1.8 53.9 46.0 46.9 55.2 50.9 38.5 36.7 51.3 37.7 36.6 37.6 42.1		1	2	0									#####	188 142	2 23	9	1 () 2	1													
			2	0	1,608	40	75	0	0	1.8%	0.7%	54.9	#### 2	204 154	25	10	1 (2	1	67.4	76.3 8	1.2 -1										
Build-out Year (2040) with Project Saturday (Mid-Day) 2 0 1,616 40 75 0 0 1.8% 0.7% 54.9 ### 205 155 25 10 1 0 2 1 67.4 76.3 81.2 -1.8 54.3 46.4 47.3 55.6 51.3 38.8 37.1 51.7 38.1 37.0 38.0 42.5	Build-out Year (2040) with Project Weekday (Evening)		2	0	1,480	40	75	0	0	1.8%	0.7%	54.5	#####	188 142	23	9	1 () 2	1	67.4	76.3 8 ⁻	1.2 -1	8 53.9	46.0	46.9 !	55.2 50.	9 38.5	36.7	51.3 37	.7 36.6	37.6 42	2.1
	Build-out Year (2040) with Project Saturday (Mid-Day)		2	0	1,616	40	75	0	0	1.8%	0.7%	54.9	#####	205 155	5 25	10	1 (2	1	67.4	76.3 8	1.2 -1	8 54.3	3 46.4	47.3	55.6 51.	3 38.8	37.1	51.7 38	.1 37.0	38.0 42	2.5

⁽¹⁾ Alpha Factor: Coefficient of absorption relating to the effects of the ground surface. An alpha factor of 0 indicates that the site is an acoustically "hard" site such as aspalt. An alpha factor of 0.5 indicates that the site is an acoustically "soft" site such as vegetative ground cover.

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

Northbound

Eastbound

Imperial Hwy & Eureka Ave

Imperial Hwy

	right	through	left
Existing Weekday (Evening)	29	1,461	24
Existing Saturday (Mid-Day)	72	1,154	20
Existing plus Project Weekday (Evening)	29	1,474	56
Existing plus Project Saturday (Mid- Day)	72	1,172	20
Opening Year (2021) Without Project Weekday (Evening)	31	1,570	57
Opening Year (2021) Without Project Saturday (Mid-Day)	75	1,279	21
Opening Year (2021) with Project Weekday (Evening)	31	1,583	57
Opening Year (2021) with Project Saturday (Mid-Day)	75	1,297	21
Build-out Year (2040) without Project Weekday (Evening)	37	1,906	70
Build-out Year (2040) without Project Saturday (Mid-Day)	92	1,545	26
Build-out Year (2040) with Project Weekday (Evening)	37	1,919	70
Build-out Year (2040) with Project Saturday (Mid-Day)	92	1,563	26

N E S W

left through right

2

_	Existing Weekday (Evening)	84	66	18
š	Existing Saturday (Mid-Day)	63	39	19
à	Existing plus Project Weekday (Evening)	84	66	20
ř	Existing plus Project Saturday (Mid- Day)	63	39	22
2	Opening Year (2021) Without Project Weekday (Evening)	87	68	21
-	Opening Year (2021) Without Project Saturday (Mid-Day)	66	41	23
	Opening Year (2021) with Project Weekday (Evening)	87	68	23
	Opening Year (2021) with Project Saturday (Mid-Day)	66	41	26
	Build-out Year (2040) without Project Weekday (Evening)	106	84	26
	Build-out Year (2040) without Project Saturday (Mid-Day)	81	50	28
	Build-out Year (2040) with Project Weekday (Evening)	106	84	28
	Build-out Year (2040) with Project Saturday (Mid-Day)	81	50	31

	right	through	left
Existing Weekday (Evening)	27	30	20
Existing Saturday (Mid-Day)	15	27	33
Existing plus Project Weekday (Evening)	27	30	20
Existing plus Project Saturday (Mid- Day)	15	27	34
Opening Year (2021) Without Project Weekday (Evening	28	32	23
Opening Year (2021) Without Project Saturday (Mid-Day	16	29	38
Opening Year (2021) with Project Weekday (Evening)	28	32	23
Opening Year (2021) with Project Saturday (Mid-Day)	16	29	39
Build-out Year (2040) without Project Weekday (Evening	34	39	28
Build-out Year (2040) without Project Saturday (Mid-Day	20	35	45
Build-out Year (2040) with Project Weekday (Evening)	34	39	28
Build-out Year (2040) with Project Saturday (Mid-Day)	20	35	46

Existing Weekday (Evening)	27	30	20
Existing Saturday (Mid-Day)	15	27	33
Existing plus Project Weekday (Evening)	27	30	20
Existing plus Project Saturday (Mid- Day)	15	27	34
Opening Year (2021) Without Project Weekday (Evening) 28	32	23
Opening Year (2021) Without Project Saturday (Mid-Day) 16	29	38
Opening Year (2021) with Project Weekday (Evening)	28	32	23
Opening Year (2021) with Project Saturday (Mid-Day)	16	29	39
Build-out Year (2040) without Project Weekday (Evening		39	28
Build-out Year (2040) without Project Saturday (Mid-Day	20	35	45
Build-out Year (2040) with Project Weekday (Evening)	34	39	28
Build-out Year (2040) with Project Saturday (Mid-Day)	20	35	46

If Peak Hour = 6% of ADT, Scaling Factor = 16.667 If Peak Hour = 7% of ADT, Scaling Factor = 14.286 If Peak Hour = 6% of ADT, Scaling Factor = 12.5 If Peak Hour = 9% of ADT, Scaling Factor = 11.11 If Peak Hour = 10% of ADT, Scaling Factor = 10

ADT

		ADI		
Road	Imper	ial Hwy	Eurel	ka Ave
Leg	North of	South of	East of	West of
Cross Street	Eurel	ra Ave	Imper	ial Hwy
Existing Weekday (Evening)	27,072.0	26,984.0	2,104.0	1,968.0
Existing Saturday (Mid-Day)	18,776.0	18,424.0	1,344.0	2,080.0
Existing plus Project Weekday (Evening)	27,456.0	27,136.0	2,360.0	1,992.0
Existing plus Project Saturday (Mid- Day)	18,880.0	18,552.0	1,352.0	2,096.0
Opening Year (2021) Without Project Weekday (Evening	29,200.0	28,928.0	2,480.0	2,096.0
Opening Year (2021) Without Project Saturday (Mid-Day	20,792.0	20,528.0	1,472.0	2,232.0
Opening Year (2021) with Project Weekday (Evening)	29,328.0	29,080.0	2,480.0	2,120.0
Opening Year (2021) with Project Saturday (Mid-Day)	20,896.0	20,656.0	1,480.0	2,248.0
Build-out Year (2040) without Project Weekday (Evening)	35,480.0	35,152.0	3,032.0	2,560.0
Build-out Year (2040) without Project Saturday (Mid-Day)	25,136.0	24,776.0	1,784.0	2,720.0
Build-out Year (2040) with Project Weekday (Evening)	35,608.0	35,304.0	3,032.0	2,584.0
Build-out Year (2040) with Project Saturday (Mid-Day)	25,240.0	24,904.0	1,792.0	2,736.0

2 NOISE LEVEL CONTOURS

												Traffic Volumes					Ref. Ener	gy Level	s Dist	Ld		L	.e			Ln		
					Design	Dist. from		Barrier	Vehic	leMix																		
ROADWAY NAME			Median	ADT	Speed	Center to	Alpha	Attn.	Medium	Heavy	dB(A)	Day Eve Night MTd	HTd N	ИТе НТе	MTn	HTn	A M	т нт	Adj	A 1	ит нт	Total A	M M	т нт	Total	A N	AT H	IT Total
Segment	Land Use	Lanes	Width	Volume	(mph)	ReceptorF	actor (1	dB(A)	Trucks	Trucks	CNEL	_																
Imperial Hwy n/o Eureka Ave																												
Existing Weekday (Evening)		2	0	27,072	40	75	0	0	1.8%	0.7%	67.1	#### 3,438 2,599 426	169	25 5	37	15	67.4 76	3.3 81.2	2 -1.8	66.5	58.7 59.	.5 67.9	63.5	51.1 49	.3 63.9	50.3	49.2	50.3 54.7
Existing Saturday (Mid-Day)		2	0	18,776	40	75	0	0	1.8%	0.7%	65.5	#### 2,385 1,802 295		17 4	25		67.4 76										47.6	48.7 53.2
Existing plus Project Weekday (Evening)		2	0	27,456	40	75	0	0	1.8%	0.7%	67.2	#### 3,487 2,636 432		25 5	37	15	67.4 76	3.3 81.2	2 -1.8	66.6	58.7 59.	.6 67.9	63.6	51.1 49	.4 64.0	50.4	49.3	50.3 54.8
Existing plus Project Saturday (Mid- Day)		2	0	18,880	40	75	0	0	1.8%	0.7%	65.6	=,000 .,0.1= =0.		17 4	26		67.4 76											48.7 53.2
Opening Year (2021) Without Project Weekday (Evening)		2	0	29,200	40	75	0	0	1.8%	0.7%	67.4	#### 3,708 2,803 460	182	27 6	40	16	67.4 76	3.3 81.2	2 -1.8	66.9	59.0 59.	.8 68.2	63.9 5	1.4 49	.7 64.3	50.7	49.5	50.6 55.1
Opening Year (2021) Without Project Saturday (Mid-Day)		2	0	20,792	40	75	0	0	1.8%	0.7%	66.0	,,		19 4	28		67.4 76											49.1 53.6
Opening Year (2021) with Project Weekday (Evening)		2	0	29,328	40	75	0	0	1.8%	0.7%	67.5			27 6	40													50.6 55.1
Opening Year (2021) with Project Saturday (Mid-Day)		2	0	20,896	40	75	0	0	1.8%	0.7%	66.0			19 4	28		67.4 76	3.3 81.2	2 -1.8	65.4	57.5 58.	.4 66.7	62.4 5	50.0 48	.2 62.8	49.2	48.1	49.1 53.6
Build-out Year (2040) without Project Weekday (Evening)		2	0	35,480	40	75	0	0	1.8%	0.7%	68.3	#### 4,506 3,406 558		32 7	48	20	67.4 76	3.3 81.2	2 -1.8	67.7	59.8 60.	.7 69.0	64.7	52.3 50	.5 65.1	51.5	50.4	51.4 55.9
Build-out Year (2040) without Project Saturday (Mid-Day)		2	0	25,136	40	75	0	0	1.8%	0.7%	66.8			23 5	34							.2 67.5						49.9 54.4
Build-out Year (2040) with Project Weekday (Evening)		2	0	35,608	40	75	0	0	1.8%	0.7%	68.3			32 7	48	20	67.4 76	3.3 81.2	2 -1.8	67.7	59.9 60.	.7 69.1	64.7	52.3 50	.5 65.1	51.5	50.4	51.4 55.9
Build-out Year (2040) with Project Saturday (Mid-Day)	J	2	0	25,240	40	75	0	0	1.8%	0.7%	66.8	#### 3,205 2,423 397	157	23 5	34	14	67.4 76	5.3 81.2	2 -1.8	66.2	58.4 59.	.2 67.6	63.2 5	0.8 49	.0 63.6	50.0	48.9	50.0 54.4
Imperial Hwy s/o Eureka Ave	ĺ																											
Existing Weekday (Evening)	1	2	0	26,984	40	75	0	0	1.8%	0.7%	67.1	#### 3,427 2,590 425	168	25 5	37	15	67.4 76	3.3 81.2	2 -1.8	66.5	58.7 59.	.5 67.9	63.5	51.1 49	.3 63.9	50.3	49.2	50.2 54.7
Existing Saturday (Mid-Day)	1	2	0	18,424	40	75	0	0	1.8%	0.7%	65.5	#### 2,340 1,769 290	115	17 4	25	10	67.4 76	5.3 81.2	2 -1.8	64.9	57.0 57.	.8 66.2	61.9	19.4 47	.7 62.3	48.7	47.5	48.6 53.1
Existing plus Project Weekday (Evening)	1	2	0	27,136	40	75	ō	0	1.8%	0.7%	67.1	#### 3,446 2,605 427		25 5	37		67.4 76											50.3 54.8
Existing plus Project Saturday (Mid- Day)	1	2	0	18,552	40	75	0	0	1.8%	0.7%	65.5	#### 2,356 1,781 292	116	17 4	25	10	67.4 76	3.3 81.2	2 -1.8	64.9	57.0 57.	.9 66.2	61.9 4	19.4 47	.7 62.3	48.7	47.6	48.6 53.1
Opening Year (2021) Without Project Weekday (Evening)	1	2	0	28,928	40	75	0	0	1.8%	0.7%	67.4	#### 3,674 2,777 455	180	26 6	39	16	67.4 76	3.3 81.2	2 -1.8	66.8	59.0 59.	.8 68.2	63.8 5	1.4 49	.6 64.2	50.6	49.5	50.5 55.0
Opening Year (2021) Without Project Saturday (Mid-Day)		2	0	20,528	40	75	0	0	1.8%	0.7%	65.9	#### 2,607 1,971 323	128	19 4	28	12	67.4 76	3.3 81.2	2 -1.8	65.3	57.5 58.	.3 66.7	62.3 4	9.9 48	.1 62.7	49.1	48.0	49.1 53.5
Opening Year (2021) with Project Weekday (Evening)	1	2	0	29,080	40	75	0	0	1.8%	0.7%	67.4	#### 3,693 2,792 458	181	26 6	39	16	67.4 76	3.3 81.2	2 -1.8	66.8	59.0 59.	.8 68.2	63.9 5	1.4 49	.6 64.2	50.7	49.5	50.6 55.1
Opening Year (2021) with Project Saturday (Mid-Day)	1	2	0	20,656	40	75	0	0	1.8%	0.7%	65.9	#### 2,623 1,983 325	129	19 4	28	12	67.4 76	3.3 81.2	2 -1.8	65.3	57.5 58.	.3 66.7	62.4	9.9 48	.2 62.8	49.2	48.0	49.1 53.6
Build-out Year (2040) without Project Weekday (Evening)	1	2	0	35,152	40	75	0	0	1.8%	0.7%	68.3	#### 4,464 3,375 553	219	32 7	48	20	67.4 76	3.3 81.2	2 -1.8	67.7	59.8 60.	.6 69.0	64.7 5	52.2 50	.5 65.1	51.5	50.3	51.4 55.9
Build-out Year (2040) without Project Saturday (Mid-Day)	1	2	0	24,776	40	75	0	0	1.8%	0.7%	66.7	#### 3,147 2,378 390	155	23 5	34	14	67.4 76	3.3 81.2	2 -1.8	66.1	58.3 59.	.1 67.5	63.2 5	0.7 48	.9 63.6	50.0	48.8	49.9 54.4
Build-out Year (2040) with Project Weekday (Evening)		2	0	35,304	40	75	0	0	1.8%	0.7%	68.3	#### 4,484 3,389 556	220	32 7	48	20	67.4 76	3.3 81.2	2 -1.8	67.7	59.8 60.	.6 69.0	64.7 5	2.2 50	.5 65.1	51.5	50.4	51.4 55.9
Build-out Year (2040) with Project Saturday (Mid-Day)]	2	0	24,904	40	75	0	0	1.8%	0.7%	66.8	#### 3,163 2,391 392	155	23 5	34	14	67.4 76	5.3 81.2	2 -1.8	66.2	58.3 59.	.1 67.5	63.2	0.7 49	.0 63.6	50.0	48.8	49.9 54.4
Eureka Ave e/o I mperial Hwy	I																											
Existing Weekday (Evening)		2	0	2,104	40	75	0	0	1.8%	0.7%	56.0	1,635 267 202 33	13	2 0	3	1	67.4 76	5.3 81.2	2 -1.8	55.4	47.6 48.	.4 56.8	52.4 4	10.0 38	.2 52.8	39.3	38.1	39.2 43.6
Existing Saturday (Mid-Day)	1	2	0	1.344	40	75	0	0	1.8%	0.7%	54.1	1.044 171 129 21	8	1 0	2	1	67.4 76	3.3 81.2	2 -1.8	53.5	45.6 46.	.5 54.8	50.5	88.0 36	.3 50.9	37.3	36.2	37.2 41.7
Existing plus Project Weekday (Evening)	1	2	0	2.360	40	75	ō	0	1.8%	0.7%	56.5	22	15	2 0	3	1		3.3 81.2										39.7 44.1
Existing plus Project Saturday (Mid- Day)		2	0	1,352	40	75	0	0	1.8%	0.7%	54.1	1.051 172 130 21	8	1 0	2	1	67.4 76	3.3 81.2	2 -1.8									37.2 41.7
Opening Year (2021) Without Project Weekday (Evening)		2	0	2,480	40	75	0	0	1.8%	0.7%	56.7	1,927 315 238 39	15	2 0	3	1												39.9 44.4
Opening Year (2021) Without Project Saturday (Mid-Day)		2	0	1.472	40	75	0	0	1.8%	0.7%	54.5	1.144 187 141 23	9	1 0	2	1	67.4 76	3.3 81.2	2 -1.8	53.9	46.0 46.	.8 55.2	50.9	88.4 36	.7 51.3	37.7	36.6	37.6 42.1
Opening Year (2021) with Project Weekday (Evening)		2	0	2,480	40	75	0	0	1.8%	0.7%	56.7	1,927 315 238 39	15	2 0	3	1	67.4 76	3.3 81.2	2 -1.8	56.1	48.3 49.	.1 57.5	53.2 4	10.7 38	.9 53.6	40.0	38.8	39.9 44.4
Opening Year (2021) with Project Saturday (Mid-Day)		2	0	1,480	40	75	0	0	1.8%	0.7%	54.5	1,150 188 142 23	9	1 0	2	1											36.6	37.6 42.1
Build-out Year (2040) without Project Weekday (Evening)		2	0	3,032	40	75	0	0	1.8%	0.7%	57.6	2,356 385 291 48	19	3 1	4	2	67.4 76	5.3 81.2	2 -1.8	57.0	49.2 50.	.0 58.4	54.0 4	1.6 39	.8 54.4	40.8	39.7	40.8 45.2
Build-out Year (2040) without Project Saturday (Mid-Day)		2	0	1,784	40	75	0	0	1.8%	0.7%	55.3	1,386 227 171 28	11	2 0	2													38.4 42.9
Build-out Year (2040) with Project Weekday (Evening)		2	0	3,032	40	75	0	0	1.8%	0.7%	57.6	2,356 385 291 48	19	3 1	4	2	67.4 76	3.3 81.2	2 -1.8	57.0	49.2 50.	.0 58.4	54.0 4	1.6 39	.8 54.4	40.8	39.7	40.8 45.2
Build-out Year (2040) with Project Saturday (Mid-Day)]	2	0	1,792	40	75	0	0	1.8%	0.7%	55.3	1,392 228 172 28	11	2 0	2	1	67.4 76	5.3 81.2	2 -1.8	54.7	46.9 47.	.7 56.1	51.8	39.3 37	.5 52.1	38.6	37.4	38.5 42.9
Eureka Ave w/o Imperial Hwy	İ																											
Existing Weekday (Evening)	1	2	0	1.968	40	75	0	0	1.8%	0.7%	55.7	1.529 250 189 31	12	2 0	3	1	674 76	33 813	2 -1 R	55.1	473 48	1 56.5	522 3	39 7 37	9 526	39.0	378	38.9 43.4
Existing Weekday (Everling) Existing Saturday (Mid-Day)	1	2	0	2.080	40	75	0	0	1.8%	0.7%	56.0		13	2 0	3	1		5.3 81.2				.3 56.7						39.1 43.6
Existing Saturday (Mid-Day) Existing plus Project Weekday (Evening)	1	2	0	1.992	40	75	0	0	1.8%	0.7%	55.8	,	12	2 0	3	1	67.4 76					.2 56.5						38.9 43.4
Existing plus Project Weekday (Evering) Existing plus Project Saturday (Mid- Day)	1	2	0	2.096	40	75	0	0	1.8%	0.7%	56.0		13	2 0	3	1		5.3 81.2				.4 56.8						39.1 43.6
Opening Year (2021) Without Project Weekday (Evening)	1	2	0	2.096	40	75	0	0	1.8%	0.7%	56.0		13	2 0	3	1	67.4 76											39.1 43.6
Opening Year (2021) Without Project Weekday (Evering) Opening Year (2021) Without Project Saturday (Mid-Day)	1	2	0	2,030	40	75	0	0	1.8%	0.7%	56.3		14	2 0	3	1		5.3 81.2				.7 57.0						39.4 43.9
Opening Year (2021) with Opening Year (2021) with Project Weekday (Evening)	1	2	0	2,232	40	75	0	0	1.8%	0.7%	56.1		13	2 0	3	1	67.4 76											39.2 43.7
Opening Year (2021) with Project Weekday (Evening) Opening Year (2021) with Project Saturday (Mid-Day)	1	2	0	2,120	40	75	0	0	1.8%	0.7%			14	2 0	3	1		5.3 81.2										39.5 43.9
Build-out Year (2040) without Project Weekday (Evening)	1	2	0	2,560	40	75	0	0	1.8%	0.7%			16	2 1	3	1												40.0 44.5
Build-out Year (2040) without Project Weekday (Evering) Build-out Year (2040) without Project Saturday (Mid-Day)		2	0	2,720	40	75	0	0	1.8%	0.7%		2.113 345 261 43		2 1	4		67.4 76					.5 57.9						40.3 44.8
Build-out Year (2040) with Project Saturday (Mid-Day) Build-out Year (2040) with Project Weekday (Evening)		2	0	2,720	40	75 75	0	0	1.8%	0.7%		2,113 343 201 43		2 1	3	1						.3 57.7						40.3 44.6 40.1 44.5
Build-out Year (2040) with Project Weekday (Evening) Build-out Year (2040) with Project Saturday (Mid-Day)	1	2	0	2,364	40	75 75	0	0	1.8%	0.7%		2,126 347 263 43		2 1														40.3 44.8
Build-out Teal (2040) with Project Saturday (Mid-Day)	J	-	U	2,100	40	15	U	U	1.070	0.1 /0	31.2	2,120 341 203 43	"	- 1	-	_	U1.4 /	J.J U1.2	- 1.0	, 50.0	10.1 49.	.0 01.8	JJ.U 4	F1.1 38	0	40.4	٠٠.٠ ،	10.0 44.0

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

Northbound

Existing Meekday (Evening)
Existing Saturday (Mid-Day)
Existing Saturday (Mid-Day)
Existing plus Project Weekday (Evening)
Existing plus Project Saturday (Mid-Day)
Existing plus Project Saturday (Mid-Day)
Opening Year (2021) Without Project Saturday (Mid-Day)
Opening Year (2021) with Project Saturday (Mid-Day)
Upening Year (2021) with Project Saturday (Mid-Day)
Build-out Year (2040) without Project Saturday (Mid-Day)
Build-out Year (2040) without Project Saturday (Mid-Day)
Build-out Year (2040) without Project Saturday (Mid-Day)
Build-out Year (2040) with Project Weekday (Evening)
Build-out Year (2040) with Project Saturday (Mid-Day)

Imperial Hwy & Lemon Dr

3

Imperial Hwy

ітрепаі гіму			
Southbound			
	right	through	left
Existing Weekday (Evening)	21	1,759	114
Existing Saturday (Mid-Day)	24	1,160	120
Existing plus Project Weekday (Evening)	21	1,741	147
Existing plus Project Saturday (Mid- Day)	24	1,152	150
Opening Year (2021) Without Project Weekday (Evening)	21	1,798	198
Opening Year (2021) Without Project Saturday (Mid-Day)	24	1,192	223
Opening Year (2021) with Project Weekday (Evening)	21	1,780	231
Opening Year (2021) with Project Saturday (Mid-Day)	24	1,184	253
Build-out Year (2040) without Project Weekday (Evening)	26	2,203	225
Build-out Year (2040) without Project Saturday (Mid-Day)	30	1,459	251
Build-out Year (2040) with Project Weekday (Evening)	26	2,185	258
Build-out Year (2040) with Project Saturday (Mid-Day)	30	1,451	281

N E S

| through | fight | 1,460 | 59 | 1,460 | 59 | 1,460 | 59 | 1,460 | 59 | 1,460 | 59 | 1,460 | 59 | 1,460 | 59 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 60 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 | 1,4493 |

Eastbound

		left	through	right
	Existing Weekday (Evening)	13	3	15
۵	Existing Saturday (Mid-Day)	22	7	11
5	Existing plus Project Weekday (Evening)	13	3	15
Ē	Existing plus Project Saturday (Mid- Day)	22	7	11
3	Opening Year (2021) Without Project Weekday (Evening)	13	3	15
	Opening Year (2021) Without Project Saturday (Mid-Day)	22	7	11
	Opening Year (2021) with Project Weekday (Evening)	13	3	15
	Opening Year (2021) with Project Saturday (Mid-Day)	22	7	11
	Build-out Year (2040) without Project Weekday (Evening)	16	4	19
	Build-out Year (2040) without Project Saturday (Mid-Day)	28	9	14
	Build-out Year (2040) with Project Weekday (Evening)	16	4	19
	Build out Vear (2040) with Project Saturday (Mid.Day)	28	٩	1/1

	right	through	left
Existing Weekday (Evening)	120	5	50
Existing Saturday (Mid-Day)	112	11	61
Existing plus Project Weekday (Evening)	143	5	50
Existing plus Project Saturday (Mid- Day)	112	11	61
Opening Year (2021) Without Project Weekday (Evening		5	51
Opening Year (2021) Without Project Saturday (Mid-Day	212	11	62
Opening Year (2021) with Project Weekday (Evening)	232	5	51
Opening Year (2021) with Project Saturday (Mid-Day)	212	11	62
Build-out Year (2040) without Project Weekday (Evening	237	6	63
Build-out Year (2040) without Project Saturday (Mid-Day	238	14	76
Build-out Year (2040) with Project Weekday (Evening)	260	6	63
Build-out Year (2040) with Project Saturday (Mid-Day)	238	14	76

Road	Imper	ial Hwy	Lem	on Dr
Leg	North of	South of	East of	West of
Cross Street	Lem	on Dr	Imper	ial Hwy
Existing Weekday (Evening)	27,896.0	26,744.0	2,808.0	456.0
Existing Saturday (Mid-Day)	19,960.0	18,768.0	2,944.0	600.0
Existing plus Project Weekday (Evening)	28,200.0	26,600.0	3,256.0	456.0
Existing plus Project Saturday (Mid- Day)	20,136.0	18,704.0	3,184.0	600.0
Opening Year (2021) Without Project Weekday (Evening	29,856.0	27,336.0	4,208.0	456.0
Opening Year (2021) Without Project Saturday (Mid-Day	22,080.0	19,280.0	4,584.0	600.0
Opening Year (2021) with Project Weekday (Evening)	30,160.0	27,192.0	4,656.0	456.0
Opening Year (2021) with Project Saturday (Mid-Day)	22,256.0	19,216.0	4,824.0	600.0
Build-out Year (2040) without Project Weekday (Evening) 36,288.0	33,504.0	4,872.0	568.0
Build-out Year (2040) without Project Saturday (Mid-Day) 26,688.0	23,600.0	5,272.0	760.0
Build-out Year (2040) with Project Weekday (Evening)	36,592.0	33,360.0	5,320.0	568.0
Build-out Year (2040) with Project Saturday (Mid-Day)	26,864.0	23,536.0	5,512.0	760.0

ADT

If Peak Hour = 6% of ADT, Scaling Factor = 16.887 If Peak Hour = 7% of ADT, Scaling Factor = 14.288 If Peak Hour = 6% of ADT, Scaling Factor = 12.5 If Peak Hour = 9% of ADT, Scaling Factor = 11.11 If Peak Hour = 10% of ADT, Scaling Factor = 10

3 NOISE LEVEL CONTOURS

												Traffic V	dumes					Ref	Energy	/Levels	Diet	Ιd			_e			Ln			
					Design	Dist. from	ı	Barrier	Vehid	leMix		mano r	orarrico					1 101	Linagi	, 20,00	D.0.			-							
ROADWAY NAME			Median	ADT	Speed	Center to	Alpha	Attn.	Medium	Heavy	dB(A)	Day Ev	e Night M	1Td HTd	d MTe	HTe N	/ITn H	Tn A	MT	HT	Adj	A N	т нт	Total A	۸ M	IT H	T Tota	al A	MT I	HT Total	
Segment	Land Use	Lanes	Width	Volume					Trucks			,	9								,										
Imperial Hwy n/o Lemon Dr																															
Existing Weekday (Evening)	1	2	0	27,896	40	75	0	0	1.8%	0.7%	67.3	#### 3,5	543 2,678 4	439 174	4 25	6	38	16 67.	4 76.3	81.2	-1.8	66.7	8.8 59.	6 68.0	63.7 5	51.2 4	9.5 64.	.1 50.5	49.3	50.4 54.9	
Existing Saturday (Mid-Day)	1	2	0	19,960	40	75	0	0	1.8%	0.7%	65.8	#### 2,5	535 1,916 3	314 124	4 18	4	27	11 67.	4 76.3	81.2	-1.8	65.2 5	57.3 58.	2 66.5	62.2	49.8 4	8.0 62.	.6 49.0	47.9	48.9 53.4	
Existing plus Project Weekday (Evening)		2	0	28,200	40	75	0	0	1.8%	0.7%	67.3	#### 3.5	581 2.707 4	444 176	6 26	6	38													50.4 54.9	
Existing plus Project Saturday (Mid- Day)		2	0	20.136	40	75	0	0	1.8%	0.7%	65.8	#### 2.5	557 1.933 3	317 126	6 18	4	27	11 67.	4 76.3	81.2	-1.8	65.2	57.4 58.	2 66.6	62.3 4	49.8 4	8.0 62.	7 49.1	47.9	49.0 53.5	
Opening Year (2021) Without Project Weekday (Evening)	1	2	0	29.856	40	75	0	0	1.8%	0.7%	67.5	#### 3.7	792 2.866 4	470 186	6 27															50.7 55.2	
Opening Year (2021) Without Project Saturday (Mid-Day)	1	2	0	22,080	40	75	0	0	1.8%	0.7%			304 2.120 3																	49.4 53.9	
Opening Year (2021) with Project Weekday (Evening)	1	2	0	30.160	40	75	0	0	1.8%	0.7%			330 2,895 4																	50.7 55.2	
Opening Year (2021) with Project Saturday (Mid-Day)	1	2	0	22.256	40	75	0	0	1.8%	0.7%			327 2.137 3																	49.4 53.9	
Build-out Year (2040) without Project Weekday (Evening)	i	2	0	36,288	40	75	0	0	1.8%	0.7%			309 3.484 5																	51.5 56.0	
Build-out Year (2040) without Project Saturday (Mid-Day)	i	2	0	26,688	40	75	0	0	1.8%	0.7%			389 2.562 4																	50.2 54.7	
Build-out Year (2040) with but I roject outdray (Mid-Bay) Build-out Year (2040) with Project Weekday (Evening)	i	2	0	36.592	40	75	0	0	1.8%	0.7%			347 3.513 5																	51.6 56.0	
Build-out Year (2040) with Project Weekday (Evening) Build-out Year (2040) with Project Saturday (Mid-Day)	i	2	0	26.864	40	75	0	0	1.8%	0.7%			112 2.579 4																	50.2 54.7	
Build-out Fear (2040) Willi Project Saturday (Mid-Day)	ı	2	U	20,004	40	75	U	U	1.070	0.776	67.1	##### 3,4	+12 2,379 4	423 100	0 24	3	30	15 67.	4 /0.3	01.2	-1.0	00.5	0.0 09.	3 07.0	03.5	31.0 4	19.5 05.	.9 00.3	49.2	30.2 34.7	
Imperial Hwy s/o Lemon Dr	I																														
Existing Weekday (Evening)	1	2	0	26.744	40	75	0	0	1.8%	0.7%	67.1	##### 23	396 2.567 4	421 167	7 24	5	36	15 67	4 76 9	812	-1.9	66.5	SR 50	4 67 8	63.5 1	510 4	03 63	0 503	40.2	50.2 54.7	
Existing Veekday (Evening) Existing Saturday (Mid-Day)	1	2	0	18.768	40	75	0	0	1.8%	0.7%	65.5		384 1.802 2							81.2										48.7 53.1	
Existing Saturday (Mid-Day) Existing plus Project Weekday (Evening)	1	2	0	26,600	40	75 75	0	0	1.8%	0.7%				295 III 419 166						81.2										50.2 54.7	
Existing plus Project Weekday (Evening) Existing plus Project Saturday (Mid- Day)	1	2	0	18,704	40	75 75	0	0	1.8%	0.7%			378 2,334 4 375 1.796 2																	48.7 53.1	
	1	2	0	-, -			-	0			0.0000000000000000000000000000000000000		,																		
Opening Year (2021) Without Project Weekday (Evening)	4	2	0	27,336	40	75	0	-	1.8%	0.7%			172 2,624 4							81.2										50.3 54.8	
Opening Year (2021) Without Project Saturday (Mid-Day)	4	_		19,280	40	75	0	0	1.8%	0.7%			149 1,851 3																	48.8 53.3	
Opening Year (2021) with Project Weekday (Evening)	4	2	0	27,192	40	75	0	0	1.8%	0.7%			453 2,610 4							81.2										50.3 54.8	
Opening Year (2021) with Project Saturday (Mid-Day)		-	•	19,216	40	75	0	0	1.8%	0.7%			140 1,845 3																	48.8 53.3	
Build-out Year (2040) without Project Weekday (Evening)		2	0	33,504	40	75	0	0	1.8%	0.7%			255 3,216 5																	51.2 55.7	
Build-out Year (2040) without Project Saturday (Mid-Day)		2	0	23,600	40	75	0	0	1.8%	0.7%			997 2,266 3																	49.7 54.1	
Build-out Year (2040) with Project Weekday (Evening)		2	0	33,360	40	75	0	0	1.8%	0.7%			237 3,203 5																	51.2 55.6	
Build-out Year (2040) with Project Saturday (Mid-Day)	1	2	0	23,536	40	75	0	0	1.8%	0.7%	66.5	##### 2,9	989 2,259 3	370 147	7 21	5	32	13 67.	4 /6.3	81.2	-1.8	65.9	8.1 58.	9 67.3	62.9 5	50.5 4	8.7 63.	.3 49.7	48.6	49.7 54.1	
Lemon Dr e/o Imperial Hwy	I																														
Existing Weekday (Evening)		2	0	2.808	40	75	0	0	1.8%	0.7%	57.3	2,182 35	57 270	44 18	3 3	1	4	2 67	4 76 1	2 212	1 Ω	56.7	10 0 10	7 59 0	53.7 /	112 2	0.5 54	1 40 5	30.4	40.4 44.9	
Existing Weekday (Evering) Existing Saturday (Mid-Day)	1	2	0	2,944	40	75	0	0	1.8%	0.7%		2,102 3		46 18		1				81.2										40.6 45.1	
Existing Saturday (Mid-Day) Existing plus Project Weekday (Evening)	1	2	0	3,256	40	75	0	0	1.8%	0.7%		2,207 37		51 20		1				81.2										41.1 45.5	
Existing plus Project Weekday (Evening) Existing plus Project Saturday (Mid- Day)	1	2	0	3,184	40	75	0	0	1.8%	0.7%		2,550 4		50 20		1														41.0 45.4	
Opening Year (2021) Without Project Weekday (Evening)	1	2	0	4.208	40	75	0	0	1.8%	0.7%		3,270 5		66 26		1		2 67. 2 67.												42.2 46.7	
	1	2	0	4,206	40	75	0	0	1.8%	0.7%		3,562 58		72 29		1														42.5 47.0	
Opening Year (2021) Without Project Saturday (Mid-Day)	1	2	0	4,584			-	-	1.8%			3,502 50				1	-														
Opening Year (2021) with Project Weekday (Evening)	1	2	0	4,000	40	75 75	0	0	1.8%	0.7% 0.7%		3,748 6		73 29 76 30		1														42.6 47.1 42.8 47.2	
Opening Year (2021) with Project Saturday (Mid-Day)	1	2	0	, -	40		-									1															
Build-out Year (2040) without Project Weekday (Evening)		2	0	4,872 5,272	40	75 75	0	0	1.8% 1.8%	0.7%		3,786 6° 4.096 6°		77 30 83 33		1														42.8 47.3	
Build-out Year (2040) without Project Saturday (Mid-Day) Build-out Year (2040) with Project Weekday (Evening)	1	2	0	5,272	40 40	75 75	0	0	1.8%	0.7% 0.7%		4,096 67		84 33		1														43.2 47.6 43.2 47.7	
	1	2	0	5,320	40	75 75	0		1.8%	0.7%						1															
Build-out Year (2040) with Project Saturday (Mid-Day)	1	2	U	5,512	40	75	U	0	1.8%	0.7%	60.2	4,283 70	00 529	87 34	1 5	1	1	3 67.	4 /0.3	0 01.2	-1.8	59.6	1.8 52.0	3 01.0	00.0 4	44.2 4	2.4 57.	.0 43.4	42.3	43.3 47.8	
Lemon Dr w/o Imperial Hwy	I																														
	1	2	0	456	40	75	0	0	1.8%	0.7%	49.4	354 5	58 44	7 3		0	1	0 67	4 76 9	2 21 2	10	100	100 44	Ω 50.4	45.Q <	333 3	16 10	2 22 6	31 F	32.5 37.0	
Existing Weekday (Evening) Existing Saturday (Mid-Day)	1	2	0	600	40	75 75	0	0	1.8%	0.7%	49.4 50.6		76 58	0 4	1	0														33.7 38.2	
Existing Saturday (Mid-Day) Existing plus Project Weekday (Evening)	1	2	0	456		75 75	0	•	1.8%	0.7%	49.4		10 DB 58 44	7 3		0															
	1	2	0	456 600	40 40	75 75	0	0		0.7%	49.4 50.6		18 44 16 58	0 4	0	0		0 67. 0 67.												32.5 37.0	
Existing plus Project Saturday (Mid- Day)	1	2	0				-	0	1.8%	0.7%	50.6 49.4		6 58 8 44	9 4		0														33.7 38.2	
Opening Year (2021) Without Project Weekday (Evening)		_	-	456	40	75	0	-	1.8%					7 3		0														32.5 37.0	
Opening Year (2021) Without Project Saturday (Mid-Day)	-	2	0	600	40	75	0	0	1.8%	0.7%	50.6		6 58	9 4	. 1	U														33.7 38.2	
Opening Year (2021) with Project Weekday (Evening)	-	2	0	456	40	75	0	0	1.8%	0.7%	49.4		8 44	7 3	0	U														32.5 37.0	
Opening Year (2021) with Project Saturday (Mid-Day)	-	2	0	600	40	75	0	0	1.8%	0.7%	50.6		0 00	9 4	. 1	U				81.2										33.7 38.2	
Build-out Year (2040) without Project Weekday (Evening)		2	0	568	40	75	0	0	1.8%	0.7%	50.3		_ 00	9 4	. 1	U														33.5 38.0	
Build-out Year (2040) without Project Saturday (Mid-Day)		2	0	760	40	75	0	0	1.8%	0.7%	51.6	591 9		12 5		0														34.7 39.2	
Build-out Year (2040) with Project Weekday (Evening)		2	0	568	40	75	0	0	1.8%	0.7%	50.3			9 4		0														33.5 38.0	
Build-out Year (2040) with Project Saturday (Mid-Day)]	2	0	760	40	75	0	0	1.8%	0.7%	51.6	591 9	73	12 5	1	0	1	0 67.	4 76.3	81.2	-1.8	51.0	3.1 44.	J 52.3	48.0 3	35.6 3	3.8 48.	.4 34.8	33.7	34.7 39.2	

 Assumed 24-Hour Traffic Distribution:
 Day
 Evening
 Night

 Total ADT Volumes
 77.70% 12.70% 9.60%
 9.60%

 Medium-Duty Trucks
 87.43% 50.76
 7.52%

 Heavy-Duty Trucks
 89.10% 2.84% 0.60%
 30.6%

Northbound

Intersection: Imperial Hwy & Olinda St

Imperial Hwy

Southbound			
	right	through	left
Existing Weekday (Evening)	25	1,761	17
Existing Saturday (Mid-Day)	15	1,203	11
Existing plus Project Weekday (Evening)	25	1,761	17
Existing plus Project Saturday (Mid- Day)	15	1,203	11
Opening Year (2021) Without Project Weekday (Evening)	26	1,800	17
Opening Year (2021) Without Project Saturday (Mid-Day)		1,236	11
Opening Year (2021) with Project Weekday (Evening)	26	1,800	17
Opening Year (2021) with Project Saturday (Mid-Day)	15	1,236	11
Build-out Year (2040) without Project Weekday (Evening)		2,205	21
Build-out Year (2040) without Project Saturday (Mid-Day)	19	1,513	14
Build-out Year (2040) with Project Weekday (Evening)	31	2,205	21
Build-out Year (2040) with Project Saturday (Mid-Day)	19	1,513	14

Fast	

		left	through	right
	Existing Weekday (Evening)	20	8	57
ఠ	Existing Saturday (Mid-Day)	34	7	84
9	Existing plus Project Weekday (Evening)	20	8	57
퉏	Existing plus Project Saturday (Mid- Day)	34	7	84
₹	Opening Year (2021) Without Project Weekday (Evening)	20	15	58
	Opening Year (2021) Without Project Saturday (Mid-Day)	35	15	86
	Opening Year (2021) with Project Weekday (Evening)	20	15	58
	Opening Year (2021) with Project Saturday (Mid-Day)	35	15	86
	Build-out Year (2040) without Project Weekday (Evening)	25	17	71
	Build-out Year (2040) without Project Saturday (Mid-Day)	43	17	105
	Build-out Year (2040) with Project Weekday (Evening)	25	17	71
	Build out Vear (2040) with Project Saturday (Mid.Day)	43	17	105

Е

	right	through	left
Existing Weekday (Evening)	14	5	46
Existing Saturday (Mid-Day)	13	3	30
Existing plus Project Weekday (Evening)	14	5	70
Existing plus Project Saturday (Mid- Day)	13	3	30
Opening Year (2021) Without Project Weekday (Evening)	14	12	47
Opening Year (2021) Without Project Saturday (Mid-Day)	13	11	31
Opening Year (2021) with Project Weekday (Evening)	14	12	71
Opening Year (2021) with Project Saturday (Mid-Day)	13	11	31
Build-out Year (2040) without Project Weekday (Evening)	18	13	58
Build-out Year (2040) without Project Saturday (Mid-Day)	16	12	38
Build-out Year (2040) with Project Weekday (Evening)	18	13	82
Build-out Year (2040) with Project Saturday (Mid-Day)	16	12	38

If Peak Hour = 6% of ADT, Scaling Factor = 16.667
If Peak Hour = 7% of ADT, Scaling Factor = 14.286
If Peak Hour = 8% of ADT, Scaling Factor = 12.5
If Peak Hour = 9% of ADT, Scaling Factor = 11.11
If Peak Hour = 10% of ADT, Scaling Factor = 10.

ADT

		ADI						
Road	Imper	ial Hwy	Olinda St					
Leg	North of	South of	East of	West of				
Cross Street	Olin	da St	Imper	al Hwy				
Existing Weekday (Evening)	26,712.0	27,880.0	1,184.0	1,408.0				
Existing Saturday (Mid-Day)	18,744.0	19,968.0	888.0	1,664.0				
Existing plus Project Weekday (Evening)	26,560.0	28,200.0	1,656.0	1,408.0				
Existing plus Project Saturday (Mid- Day)	18,680.0	20,144.0	1,128.0	1,664.0				
Opening Year (2021) Without Project Weekday (Evening	27,304.0	28,496.0	1,312.0	1,544.0				
Opening Year (2021) Without Project Saturday (Mid-Day	19,256.0	20,512.0	1,032.0	1,824.0				
Opening Year (2021) with Project Weekday (Evening)	27,152.0	28,816.0	1,784.0	1,544.0				
Opening Year (2021) with Project Saturday (Mid-Day)	19,192.0	20,688.0	1,272.0	1,824.0				
Build-out Year (2040) without Project Weekday (Evening)	33,456.0	34,920.0	1,600.0	1,864.0				
Build-out Year (2040) without Project Saturday (Mid-Day)	23,584.0	25,112.0	1,248.0	2,216.0				
Build-out Year (2040) with Project Weekday (Evening)	33,304.0	35,240.0	2,072.0	1,864.0				
Build-out Year (2040) with Project Saturday (Mid-Day)	23,520.0	25,288.0	1,488.0	2,216.0				

4 NOISE LEVEL CONTOURS

												Traffic Volu	mes					Ref. E	nergy L	evels D	ist Ld			Le	•		L	.n		
					Design	Dist. from		Barrier	Vehic	eMix									٠,											
ROADWAY NAME			Median	ADT	Speed	Center to	Alpha	Attn.	Medium	Heavy	dB(A)	Day Eve	Night MTd	HTd I	MTe HT	e MTr	n HTn	Α	MT F	IT A	dj A	MT	HT	Total A	MT	HT	Total A	. M⊤	т нт	Total
Segment	Land Use	Lanes	Width	Volume		ReceptorF							•								•									
Imperial Hwy n/o Olinda St																														
Existing Weekday (Evening)		2	0	26,712	40	75	0	0	1.8%	0.7%	67.1	#### 3,392	2.564 420	167	24 5	5 36	15	67.4	76.3	31.2 -	1.8 66	5.5 58.	.6 59.4	67.8 6	3.5 51./	0 49.3	3 63.9	50.3 49	9.2 50.2	54.7
Existing Saturday (Mid-Day)	1	2	0	18,744	40	75	0	0	1.8%	0.7%	65.5	#### 2.380			17									66.3 6						
Existing plus Project Weekday (Evening)	1	2	0	26,560	40	75	0	0	1.8%	0.7%	67.0				24 5				76.3					67.8 6						
Existing plus Project Saturday (Mid-Day)	1	2	0	18,680	40	75	0	0	1.8%	0.7%					17 4									66.3 6						
Opening Year (2021) Without Project Weekday (Evening)	i	2	0	27.304	40	75	0	0	1.8%	0.7%		#### 3,468	,		25 5									67.9 6						
Opening Year (2021) Without Project Weekday (Evening)	i	2	0	19.256	40	75	0	0	1.8%	0.7%	65.6				18 4									66.4 6						
Opening Year (2021) with Project Weekday (Evening)	i	2	0	27.152	40	75	0	0	1.8%	0.7%					25 5									67.9 6						
Opening Year (2021) with Project Saturday (Mid-Day)	i	2	0	19.192	40	75	0	0	1.8%	0.7%	65.6		,		17 4									66.4 6						
Build-out Year (2040) without Project Weekday (Evening)		2	0	33.456	40	75	0	0	1.8%	0.7%	68.0		,		30 7									68.8 6						
Build-out Year (2040) without Project Weekday (Evening) Build-out Year (2040) without Project Saturday (Mid-Day)	1	2	0	23,584	40	75 75	0	0	1.8%	0.7%	66.5				21 5									67.3 6						
Build-out Year (2040) with Project Saturday (Mid-Day)	1	2	0	33,304	40	75 75	0	0	1.8%	0.7%	68.0		,		30 7									68.8 6						
Build-out Year (2040) with Project Weekday (Evening) Build-out Year (2040) with Project Saturday (Mid-Day)	1	2	0	23,520	40	75 75	0	0	1.8%	0.7%	****	#### 2.987	-, -											67.3 6						
Build-out Year (2040) with Project Saturday (Mid-Day)	J	2	U	23,520	40	75	U	U	1.8%	0.7%	0.00	##### 2,987	2,258 370) 147	21 5	3 32	13	67.4	70.3	51.2 -	1.8 00	.9 58.	1 58.9	67.3 6.	2.9 50.5	5 48.7	03.3 4	19.7 46	3.0 49.0	54.1
Imperial Hwy s/o Olinda St]																													
Existing Weekday (Evening)		2	0	27,880	40	75	0	0	1.8%	0.7%					25 6									68.0 6						
Existing Saturday (Mid-Day)		2	0	19,968	40	75	0	0	1.8%	0.7%	65.8				18 4				76.3					66.5 6						
Existing plus Project Weekday (Evening)		2	0	28,200	40	75	0	0	1.8%	0.7%	67.3	#### 3,581			26 6				76.3					68.0 6						
Existing plus Project Saturday (Mid- Day)		2	0	20,144	40	75	0	0	1.8%	0.7%	65.8	#### 2,558	1,934 317		18 4	4 27	11	67.4	76.3	31.2 -	1.8 65	.2 57.	.4 58.2	66.6	2.3 49.8	8 48.0) 62.7	49.1 47	7.9 49.0	53.5
Opening Year (2021) Without Project Weekday (Evening)		2	0	28,496	40	75	0	0	1.8%	0.7%	67.3	#### 3,619	2,736 448	178	26 6	39	16	67.4	76.3	31.2 -	1.8 66	i.7 58.	.9 59.7	68.1 6	3.8 51.7	3 49.6	64.2	50.6 49	9.4 50.5	55.0
Opening Year (2021) Without Project Saturday (Mid-Day)		2	0	20,512	40	75	0	0	1.8%	0.7%	65.9	#### 2,605	1,969 323	128	19 4	4 28	12	67.4	76.3	31.2 -	1.8 65	.3 57.	.5 58.3	66.7 6	2.3 49.9	9 48.1	62.7	49.1 48	3.0 49.1	53.5
Opening Year (2021) with Project Weekday (Evening)		2	0	28,816	40	75	0	0	1.8%	0.7%	67.4	#### 3,660	2,766 453	180	26 6	39	16	67.4	76.3	31.2 -	1.8 66	1.8 58.	.9 59.8	68.1 6	3.8 51./	4 49.6	64.2	50.6 49	9.5 50.5	55.0
Opening Year (2021) with Project Saturday (Mid-Day)		2	0	20,688	40	75	0	0	1.8%	0.7%	66.0	#### 2,627	1,986 326	129	19 4	4 28	12	67.4	76.3	31.2 -	1.8 65	.4 57.	.5 58.3	66.7 6	2.4 49.9	9 48.2	2 62.8	49.2 48	3.0 49.1	53.6
Build-out Year (2040) without Project Weekday (Evening)		2	0	34,920	40	75	0	0	1.8%	0.7%	68.2	#### 4,435	3,352 550	218	32 7	7 47	20	67.4	76.3	31.2 -	1.8 67	.6 59.	.8 60.6	69.0 6	4.6 52.2	2 50.4	65.0	51.5 50	0.3 51.4	55.8
Build-out Year (2040) without Project Saturday (Mid-Day)		2	0	25,112	40	75	0	0	1.8%	0.7%	66.8	#### 3,189	2,411 395	157	23 5	5 34	14	67.4	76.3	31.2 -	1.8 66	j.2 58.	.3 59.2	67.5 6	3.2 50.8	8 49.0	63.6	50.0 48	3.9 49.9	54.4
Build-out Year (2040) with Project Weekday (Evening)		2	0	35,240	40	75	0	0	1.8%	0.7%	68.3	#### 4,475	3,383 555	220	32 7	7 48	20	67.4	76.3	31.2 -	1.8 67	.7 59.	.8 60.6	69.0 6	4.7 52.2	2 50.5	65.1	51.5 50	0.4 51.4	55.9
Build-out Year (2040) with Project Saturday (Mid-Day)]	2	0	25,288	40	75	0	0	1.8%	0.7%	66.8	#### 3,212	2,428 398	158	23 5	5 34	14	67.4	76.3	81.2 -	1.8 66	.2 58.	4 59.2	67.6	3.2 50.8	8 49.0	63.6	50.1 48	3.9 50.0	54.4
Olinda St e/o Imperial Hwy	I																													
Existing Weekday (Evening)	1	2	0	1.184	40	75	0	0	1.8%	0.7%	53.5	920 150	114 19	7	1 (0 2	1	67.4	76.3	31.2 -	1.8 52	9 45	1 45.9	54.3 5	0.0 37.5	5 35.7	7 50.3	36.8 35	5.6 36.7	41.1
Existing Saturday (Mid-Day)	1	2	0	888	40	75	0	0	1.8%	0.7%	52.3	690 113	85 14	6	1 (0 1	1	67.4						53.0 4						
Existing plus Project Weekday (Evening)	1	2	0	1.656	40	75	0	0	1.8%	0.7%	55.0	1.287 210	159 26	10	2 (0 2	1	67.4						55.7 5						
Existing plus Project Saturday (Mid-Day)	1	2	0	1.128	40	75	0	0	1.8%	0.7%	53.3	.,	108 18		1 (0 2	1							54.1 4						
Opening Year (2021) Without Project Weekday (Evening)	1	2	0	1.312	40	75	0	0	1.8%	0.7%	54.0		126 21		1 (0 2	1							54.7 5						
Opening Year (2021) Without Project Weekday (Evening)	i	2	0	1.032	40	75	0	0	1.8%	0.7%	52.9		99 16		1 (0 1	1							53.7 4						
Opening Year (2021) with Project Weekday (Evening)	i	2	0	1,784	40	75	0	0	1.8%	0.7%	55.3		171 28	-	2 (0 2	1							56.1 5						
Opening Year (2021) with Project Saturday (Mid-Day)	i	2	0	1,272	40	75	0	0	1.8%	0.7%	53.8		122 20		1 (0 2	1							54.6 5						
Build-out Year (2040) without Project Weekday (Evening)	1	2	0	1,600	40	75	0	0	1.8%	0.7%		1.243 203	154 25		1 (1							55.6 5						
Build-out Year (2040) without Project Weekday (Evening) Build-out Year (2040) without Project Saturday (Mid-Day)		2	0	1,248	40	75	0	0	1.8%	0.7%	53.8		120 20		1 (1							54.5 5						
Build-out Year (2040) with Project Weekday (Evening)		2	0	2.072	40	75	0	0	1.8%	0.7%	56.0		199 33		2 (56.7 5						
Build-out Year (2040) with Project Weekday (Evening) Build-out Year (2040) with Project Saturday (Mid-Day)		2	0	1,488	40	75	0	0	1.8%	0.7%		1,156 189	143 23		1 (55.3 5						
Dana Sat 1 Sai (2040) Will 1 Toject Oatarday (Wild-Day)	1	-	·	., .00			٠	•		J 73	0	.,	20	Ü				J T	. 0.0		5 50	0.		30.0	2.5 00.0	_ 00.1	0	00	01.1	
Olinda St w/o Imperial Hwy														_																
Existing Weekday (Evening)		2	0	1,408	40	75	0	0	1.8%	0.7%	54.3	33 ***	135 22		1 (1							55.0 5						
Existing Saturday (Mid-Day)	4	2	0	1,664	40	75	0	0	1.8%	0.7%	55.0		160 26		2 (-	1		76.3					55.8 5						
Existing plus Project Weekday (Evening)		2	0	1,408	40	75	0	0	1.8%	0.7%			135 22		1 (-	1		76.3					55.0 5						
Existing plus Project Saturday (Mid- Day)	1	2	0	1,664	40	75	0	0	1.8%	0.7%			160 26		2 (1							55.8 5						
Opening Year (2021) Without Project Weekday (Evening)		2	0	1,544	40	75	0	0	1.8%	0.7%			148 24		1 (_	1							55.4 5						
Opening Year (2021) Without Project Saturday (Mid-Day)		2	0	1,824	40	75	0	0	1.8%	0.7%			175 29		2 (-	1		76.3					56.2 5						
Opening Year (2021) with Project Weekday (Evening)		2	0	1,544	40	75	0	0	1.8%	0.7%		1,200 196	148 24		1 (1		76.3					55.4 5						
Opening Year (2021) with Project Saturday (Mid-Day)		2	0	1,824	40	75	0	0	1.8%	0.7%	55.4	1,417 232	175 29	11	2 (0 2	1	67.4	76.3	31.2 -	1.8 54	.8 47.	.0 47.8	56.2 5	1.8 39./	4 37.6	52.2	38.6 37	7.5 38.5	43.0
Build-out Year (2040) without Project Weekday (Evening)		2	0	1,864	40	75	0	0	1.8%	0.7%	55.5	1,448 237	179 29	12	2 (0 3	1	67.4	76.3	31.2 -	1.8 54	.9 47.	.0 47.9	56.2 5	1.9 39.5	5 37.7	52.3	38.7 37	7.6 38.6	43.1
Build-out Year (2040) without Project Saturday (Mid-Day)		2	0	2,216	40	75	0	0	1.8%	0.7%	56.3	1,722 281	213 35	14	2 (0 3	1	67.4	76.3	31.2 -	1.8 55	.7 47.	.8 48.6	57.0 5	2.7 40.	2 38.5	5 53.1	39.5 38	3.3 39.4	43.9
Build-out Year (2040) with Project Weekday (Evening)	1	2	0	1,864	40	75	0	0	1.8%	0.7%		1,448 237	179 29		2 (0 3	1							56.2 5						
Build-out Year (2040) with Project Saturday (Mid-Day)	1	2	0	2,216	40	75	0	0	1.8%	0.7%		1,722 281			2 (57.0 5						
	•				-		-	-								-														

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

Northbound

Intersection: Imperial Hwy & Yorba Linda Blvd

imperial Hwy

	right	through	left
Existing Weekday (Evening)	75	1,050	625
Existing Saturday (Mid-Day)	94	693	446
Existing plus Project Weekday (Evening)	76	1,052	628
Existing plus Project Saturday (Mid- Day)	93	691	443
Opening Year (2021) Without Project Weekday (Evening)	77	1,071	642
Opening Year (2021) Without Project Saturday (Mid-Day)	96	709	462
Opening Year (2021) with Project Weekday (Evening)	78	1,073	645
Opening Year (2021) with Project Saturday (Mid-Day)	95	707	459
Build-out Year (2040) without Project Weekday (Evening)	94	1,313	785
Build-out Year (2040) without Project Saturday (Mid-Day)	118	868	565
Build-out Year (2040) with Project Weekday (Evening)	95	1,315	788
Build-out Year (2040) with Project Saturday (Mid-Day)	117	866	562

| Northbound | Intel | Intel | Intel | Intel | Intel | Existing Weekday (Evening) | 293 | 961 | 186 | Existing Saturday (Mid-Day) | 253 | 708 | 152 | Existing Daturday (Mid-Day) | 253 | 708 | 152 | Existing plus Project Weekday (Evening) | 253 | 967 | 186 | Existing plus Project Weekday (Evening) | 263 | 716 | 152 | Opening Year (2021) Without Project Weekday (Evening) | 301 | 960 | 260 | Opening Year (2021) Without Project Saturday (Mid-Day) | 259 | 725 | 238 | Opening Year (2021) Without Project Saturday (Mid-Day) | 269 | 725 | 238 | Opening Year (2021) with Project Saturday (Mid-Day) | 269 | 733 | 238 | Build-out Year (2040) without Project Weekday (Evening) | 361 | 2201 | 301 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201 | 2201

Eastbound

-		left	through	right
Š	Existing Weekday (Evening)	98	576	321
-	Existing Saturday (Mid-Day)	94	430	237
Linda	Existing plus Project Weekday (Evening)	100	576	321
	Existing plus Project Saturday (Mid- Day)	97	430	237
Yorba	Opening Year (2021) Without Project Weekday (Evening)	100	647	328
5	Opening Year (2021) Without Project Saturday (Mid-Day)	96	511	243
-	Opening Year (2021) with Project Weekday (Evening)	102	647	328
	Opening Year (2021) with Project Saturday (Mid-Day)	99	511	243
	Build-out Year (2040) without Project Weekday (Evening)	123	779	402
	Build-out Year (2040) without Project Saturday (Mid-Day)	118	610	297
	Build-out Year (2040) with Project Weekday (Evening)	125	779	402
	Build-out Year (2040) with Project Saturday (Mid-Day)	121	610	297

N E S W

	right	through	left
Existing Weekday (Evening)	603	583	162
Existing Saturday (Mid-Day)	437	501	194
Existing plus Project Weekday (Evening)	611	583	162
Existing plus Project Saturday (Mid- Day)	448	501	194
Opening Year (2021) Without Project Weekday (Evening)	619	658	236
Opening Year (2021) Without Project Saturday (Mid-Day)	452	581	278
Opening Year (2021) with Project Weekday (Evening)	627	658	236
Opening Year (2021) with Project Saturday (Mid-Day)	463	581	278
Build-out Year (2040) without Project Weekday (Evening)	758	792	274
Build-out Year (2040) without Project Saturday (Mid-Day)	552	696	323
Build-out Year (2040) with Project Weekday (Evening)	766	792	274
Build-out Year (2040) with Project Saturday (Mid-Day)	563	696	323

If Peak Hour = 6% of ADT, Scaling Factor = 16.667
If Peak Hour = 7% of ADT, Scaling Factor = 14.286
If Peak Hour = 8% of ADT, Scaling Factor = 12.5
If Peak Hour = 9% of ADT, Scaling Factor = 11.11
If Peak Hour = 10% of ADT, Scaling Factor = 10.

ADT

Road	Imper	ial Hwy	Yorba L	inda Blvd
Leg	North of	South of	East of	West of
Cross Street	Yorba L	inda Blvd	Imper	al Hwy
Existing Weekday (Evening)	27,296.0	23,784.0	21,880.0	15,568.0
Existing Saturday (Mid-Day)	19,776.0	17,976.0	17,280.0	12,952.0
Existing plus Project Weekday (Evening)	27,472.0	23,848.0	21,968.0	15,592.0
Existing plus Project Saturday (Mid- Day)	19,904.0	18,024.0	17,344.0	12,968.0
Opening Year (2021) Without Project Weekday (Evening	27,912.0	25,408.0	24,496.0	16,888.0
Opening Year (2021) Without Project Saturday (Mid-Day	20,320.0	19,696.0	20,176.0	14,368.0
Opening Year (2021) with Project Weekday (Evening)	28,088.0	25,472.0	24,584.0	16,912.0
Opening Year (2021) with Project Saturday (Mid-Day)	20,448.0	19,744.0	20,240.0	14,384.0
Build-out Year (2040) without Project Weekday (Evening)	34,192.0	30,888.0	29,528.0	20,464.0
Build-out Year (2040) without Project Saturday (Mid-Day)	24,872.0	23,832.0	24,152.0	17,352.0
Build-out Year (2040) with Project Weekday (Evening)	34,368.0	30,952.0	29,616.0	20,488.0
Build-out Year (2040) with Project Saturday (Mid-Day)	25.000.0	23.880.0	24.216.0	17.368.0

5 NOISE LEVEL CONTOURS

Part													_ Traffic Volumes				Re	. Energ	y Levels	s Dist	Ld		ı	_e			Ln		
Support Law University Law University Law University U						Design	Dist. from		Barrier	Vehic	leMix																		
Part													Day Eve Night MTd HT	d MTe	HTe I	MTn H	Tn A	MT	HT	Adj	A I	√T HT	Total A	A M	T HT	Total	A 1	MT F	Total
Exercise Search Process Continue Conti		Land Use	Lanes	Width	Volume	(mph)	ReceptorF	actor (1	dB(A)	Trucks	Trucks	CNEL																	
Extend Substanting Marked (Marked) Company																													
Enterly last Profest Sections 2	Existing Weekday (Evening)		2	0	27,296	40	75	0	0	1.8%	0.7%	67.2	#### 3,467 2,620 430 1	70 25	5	37 ′	15 67	.4 76.3	3 81.2	-1.8	66.6	58.7 59	.5 67.9	63.6 5	1.1 49	.4 64.0	50.4	49.2	50.3 54.8
Exemple Part			_	0				-	0																			47.8	48.9 53.4
Section Common Notice Co	Existing plus Project Weekday (Evening)		2	0	27,472	40	75	0	0	1.8%	0.7%	67.2	#### 3,489 2,637 432 1	71 25	5	37	15 67	.4 76.3	3 81.2	-1.8	66.6	58.7 59	.6 67.9	63.6 5	1.1 49	.4 64.0	50.4	49.3	50.3 54.8
Second Year (2007) Without Princer Standards (Med-Second Year (2007) Without Princer Without	Existing plus Project Saturday (Mid- Day)		2	0	19,904	40	75	0	0	1.8%	0.7%	65.8	#### 2,528 1,911 313 12	24 18	4	27 ′	11 67	.4 76.3	3 81.2	-1.8	65.2	57.3 58	.2 66.5	62.2 4	9.7 48	.0 62.6	49.0	47.9	48.9 53.4
Secondary Personal			_	0	27,912	40	75	0	0	1.8%	0.7%	67.3	#### 3,545 2,680 439 1	74 25	6	38	16 67	.4 76.3	3 81.2	-1.8	66.7	58.8 59	.6 68.0	63.7 5	1.2 49	.5 64.1	50.5	49.3	50.4 54.9
Deptide Test Coll Test Test Coll Test Test Coll Test			_	0	20,320	40		0	0	1.8%			,,				11 67	.4 76.3	3 81.2	-1.8	65.3	57.4 58	.2 66.6	62.3 4	9.8 48	.1 62.7	49.1	48.0	49.0 53.5
Section Process Proc				0	28,088	40	75	0	0	1.8%	0.7%	67.3	#### 3,567 2,696 442 1	75 26	6	38 '	16 67	.4 76.3	3 81.2	-1.8	66.7	58.8 59	.7 68.0	63.7 5	1.2 49	.5 64.1	50.5	49.4	50.4 54.9
Substant No. Control Substant Su			_	0	20,448	40			0	1.8%	0.7%	65.9				28	12 67	.4 76.3	3 81.2	-1.8	65.3	57.4 58	.3 66.6	62.3 4	9.9 48	.1 62.7	49.1	48.0	49.0 53.5
Builde of the processor (processor) 2			_	-	,	40		-	0				,,																
	Build-out Year (2040) without Project Saturday (Mid-Day)		_	-	24,872	40			0							34 '													
Importal Nay 90 Yes Links Blvd			2	0	34,368	40	75	0	0	1.8%	0.7%	68.2	#### 4,365 3,299 541 2	14 31	7	47	19 67	.4 76.3	3 81.2	-1.8	67.6	59.7 60	.5 68.9	64.6 5	2.1 50	.4 65.0	51.4	50.2	51.3 55.8
Eastern Selective Select	Build-out Year (2040) with Project Saturday (Mid-Day)		2	0	25,000	40	75	0	0	1.8%	0.7%	66.8	#### 3,175 2,400 393 1	56 23	5	34 '	14 67	.4 76.3	3 81.2	-1.8	66.2	58.3 59	.1 67.5	63.2 5	0.7 49	.0 63.6	50.0	48.9	49.9 54.4
Eastern Selective Select	I manarial Huss ale Verbe Linde Blud	ı																											
Estating plan Procest Stantisty (Mis-Chay)		1	2	0	22 794	40	75	0	۸	1 99/	0.7%	66.6	##### 3.004.0.003.074.4	18 22	5	32	13 67	A 76 9	2 21 2	10	66.0	59 1 50	0 672	63 N E	05 40	8 63 4	40.9	18.6	40.7 54.2
Estating pulls Project Weedstay (Evening)		1	_					•	•																				
Eastern Protect Stantards Protect Stanta		1		-				-	-																				
Deputing Page Color Withfood Propest Weedsday (E-winning) 2 0 25,408 40 75 0 0 18% 0.7% 6.5 0.0 18% 0.7% 6.5 0.0 18% 0.7% 6.5 0.0 18% 0.7% 6.5 0.0 18% 0.7% 6.5 0.0 18% 0.7% 6.5 0.0 18% 0.7% 6.5 0.0 18% 0.7% 0.0 0.		1	_	•				-	•			*****	,,																
Depump Year (2021) With Project Methods (Verning)		•		-	- , -																								
Depuming Year (2021) with Projects Measty (Me-Duy) 2		1	_	•				-	-																				
Deputing Verar (2021) with Project Shaturday (Mid-Day) 2 0 3,088 d 40 75 0 0 1.8% 07% 658 mile 2507 (1980 31) 123 18 4 27 11 07 4 76.3 81.2 1.8 65 57.3 68.1 68.5 62.2 407 48.0 80.8 65.3 Billad-out Year (2040) without Project Shaturday (Mid-Day) 2 0 3,088 d 40 75 0 0 1.8% 07% 666 mile 3,007 2,089 375 149 22 5 32 10 67.4 76.3 81.2 1.8 66.5 81.89 67.3 80.1 60.5 48.8 83.4 88.4 48.7 49.7 54.2 Elbald-out Year (2040) with Project Shaturday (Mid-Day) 2 0 2,880 d 40 75 0 0 1.8% 07% 666 mile 3,007 2,008 375 149 22 5 32 10 67.4 76.3 81.2 1.8 66.5 87.1 88.9 67.3 80.1 60.5 48.8 83.4 88.8 43.7 49.7 54.2 Elbald-out Year (2040) with Project Shaturday (Mid-Day) 2 0 2,880 d 40 75 0 0 1.8% 07% 666 mile 3,008 2,202 376 149 22 5 32 10 67.4 76.3 81.2 1.8 60 58.1 89.9 67.3 80.1 50.5 48.8 83.4 88.8 43.7 40.7 54.2 Elbald-out Year (2040) with Project Shaturday (Mid-Day) 2 0 2,880 d 40 75 0 0 1.8% 07% 666 mile 3,008 2,202 376 149 22 5 32 10 67.4 76.3 81.2 1.8 60 58.7 58.0 60.8 44.4 88.4 48.7 40.7 65.2 Elbald-out Year (2040) with Project Shaturday (Mid-Day) 2 0 1.7 8.0 80 1.7 8.0 80.0 50.5 48.8 83.4 88.8 43.7 40.7 56.2 Elbald-out Year (2040) with Project Shaturday (Mid-Day) 2 0 1.8 80 0.0 8.1 8.9 87.3 80.1 50.5 48.8 83.4 88.8 43.7 40.7 56.2 Elbald-out Year (2040) with Project Shaturday (Mid-Day) 2 0 1.8 80 0.0 8.1 8.9 87.3 80.1 50.5 48.8 83.4 88.8 43.7 40.7 56.2 Elbald-out Year (2040) with Project Shaturday (Mid-Day) 2 0 1.8 80 0.0 8.1 8.9 87.3 80.1 50.5 48.8 83.4 88.8 43.7 40.7 56.2 Elbald-out Year (2040) with Project Shaturday (Mid-Day) 2 0 1.8 80.0 8.2 80.0 80.0 80.0 80.0 80.0 80.		1	_	-				-	-			2007/00/00	,,																
Build-out Year (2040) without Project Weekday (Evening) 2 0 3,888 40 75 0 0 18% 07% 677 mm 3,932 2,965 489 193 28 6 4 7 76 78 38 12 -18 67 59 28 01 684 641 517 489 645 509 498 638 653 488 447 54 75 12 18 18 18 18 18 18 18 18 18 18 18 18 18		•	_					-	•			0.0000000000000000000000000000000000000	,,																
Build-out Year (2040) with Project Shaurday (Mid-Day) 2 0 3,0552 48 63.4 498 457 50 0 0 1.8% 07% 666 ### 3,072 2,288 375 149 22 5 32 13 67.4 76.3 81.2 -1.8 66.0 58.1 58.9 67.3 63.0 50.5 48.8 63.4 49.8 48.7 49.7 54.2 Earlier (1946) (1946		1	-	-	,			-	-			200000000000000000000000000000000000000	,,																
Build-out Year (2040) with Project Weekday (Evening) 2 0 30,952 40 75 0 0 18% 07% 666 ### 3,931 2,911 487 130 28 6 42 17 67.4 763 812 -18 67.9 82 601 86.4 64.1 51.7 498 64.5 50.9 40.8 50.8 55.3		1	-					-	-			200000000000000000000000000000000000000	,,																
Substite County		•	-	•	,			•	•			*********	,,		-														
Varbal LinkS Blvd do Imperial Hwy		1	_																										
Existing Membeday (Evening) 2 0 21,880 40 75 0 0 1.8% 0.7% 68.2 ### 2,779 2,100 344 38 20 4 30 12 67.4 76.3 812 1.8 66.6 57.7 85.6 66.8 62.6 82	Dulid-out Teal (2040) with Project Saturday (wild-bay)	J	-	Ü	20,000	-10	70	Ü	Ü	1.070	0.770	00.0	##### 0,000 E,E3E 010 1-	10 22	J	OZ.	10 01	.4 10.0	0 01.2	-1.0	00.0	50.1 50	.5 01.5	00.0	0.0 40	.0 00.4	40.0	40.7	40.1 O4.2
Existing plass Project Weekday (Evening) 2 0 21,688 do 75 0 0 1,8% 07% 662 ### 2,792 0,119 346 62 ### 2,792 0,119																													
Existing plus Project Seturday (Keyening) 2 0 21,988 40 75 0 0 1,8% 0,7% 62,2 miles 2203 1685 2 23 48 63 57.8 58.6 67.0 62.6 52.4 48 48.3			-	-	,			-	-																				
Existing plus Project Staturday (Mid- Day) 2 0 17,344 4 0 75 0 0 1.8% 07% 65.2 18% 07% 65.2 31 0 67.4 76.3 81.2 - 1.8 6.6 15.8 2.9 61 67.4 63.1 64.4 47.3 48.3 52.8			_					-	•																				
Depring Year (2021) Without Project Meekday (Evening) 2 0 24,496			_	-				-	-			0.0000000000000000000000000000000000000																	
Comming Year (2021) Without Project Saturday (Mid-Day) 2 0 20,176 40 75 0 0 1.8% 0.7% 65.8 ### 2,562 1,397 318 126 18 4 27 11 67.4 76.3 81.2 -1.8 66.1 82.3 49.8 48.1 62.7 49.1 47.9 49.0 53.5			_	•				-	-																				
Spening Year (2021) with Project Weekday (Evening) 2 0 24,584 40 75 0 0 1,8% 0.7% 65.9 65.7 8.7 8.7 8.7 8.7 8.7 8.7 8.8 8.5 8.9 8.5 8.9 8.5 8.9 8.5 8.9 8.8 8.5 8.9 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.			_	-	,			-																					
Comming Year (2021) with Project Saturday (Mid-Day) 2 0 20,240 40 75 0 0 1,8% 0.7% 65.9 ### 2,570 1,943 319 126 18 4 27 11 67.4 76.3 81.2 -1.8 66.3 57.4 58.2 66.6 62.3 49.8 48.1 62.7 49.1 47.9 49.0 53.5			_	•				-	-																				
Build-out Year (2040) without Project Weekday (Evening)				•				-																					
Build-out Year (2040) without Project Saturday (Mid-Day) 2 0 24,152 40 75 0 0 1.8% 0.7% 66.6 ### 3,067 2,319 380 151 22 5 33 14 67.4 76.3 81.2 -1.8 66.0 58.2 59.0 67.4 63.0 50.6 48.8 63.4 49.9 48.7 49.8 54.2			-		-,	40	75	0	0		0.7%			26 18	4	27 ′	11 67	.4 76.3	3 81.2	-1.8	65.3	57.4 58	.2 66.6	62.3 4	9.8 48	.1 62.7	49.1	47.9	49.0 53.5
Desired Project Weekday (Evening) 2 0 29,616 40 75 0 0 1.8% 0.7% 67.5 ### 3,761 2,843 466 185 27 6 40 17 67.4 76.3 81.2 -1.8 66.9 59.1 59.9 68.3 63.9 51.5 49.7 49.5 50.5 51.5			_	•					-																				
Variable				•				-	-																				
Existing Mekday (Evening) 2 0 15,568 40 75 0 0 1.8% 0.7% 63.9 #### 1,977 1,495 24.5 97 14 3 2.1 9 67.4 76.3 81.2 -1.8 64.1 56.3 57.1 65.5 61.1 48.7 46.9 61.5 47.9 46.8 47.9 52.3				-																									
Existing Weekday (Evening) 2 0 15,582 40 75 0 0 1.8% 0.7% 64.7 #### 1,977 1,495 245 97 14 3 21 9 6.74 76.3 81.2 -1.8 64.1 56.3 57.1 65.5 61.1 48.7 46.9 61.5 47.9 46.8 47.9 52.3 Existing Dust Project Weekday (Evening) 2 0 15,592 40 75 0 0 1.8% 0.7% 63.9 #### 1,645 1,243 204 81 12 3 18 7 67.4 76.3 81.2 -1.8 64.1 56.3 57.1 65.5 61.1 48.7 46.9 61.5 47.9 46.8 47.9 52.3 Existing Dust Project Saturday (Mid-Day) 2 0 15,592 40 75 0 0 1.8% 0.7% 63.9 #### 1,645 1,245 20.4 81 12 3 18 7 67.4 76.3 81.2 -1.8 64.1 56.3 57.1 65.5 61.1 48.7 46.9 61.5 47.9 46.8 47.9 52.3 Existing Dust Project Saturday (Mid-Day) 2 0 12,968 40 75 0 0 1.8% 0.7% 63.9 #### 1,645 1,245 20.4 81 12 3 18 7 67.4 76.3 81.2 -1.8 64.1 56.3 57.1 65.5 61.1 48.7 46.9 61.5 47.9 46.8 47.9 52.3 Existing Dust Project Saturday (Mid-Day) 3 0 18,96 0.7% 63.9 #### 1,645 1,245 20.4 81 12 3 18 7 67.4 76.3 81.2 -1.8 64.1 56.3 57.1 65.5 61.1 48.7 46.9 61.5 47.9 46.8 47.9 52.3 Existing Dust Project Saturday (Mid-Day) 4 0 14,968 40 75 0 0 1.8% 0.7% 65.1 #### 1,645 1,245 20.4 81 12 3 18 7 67.4 76.3 81.2 -1.8 64.5 56.6 57.4 66.8 61.5 49.0 47.9 46.1 60.7 47.1 51.5 Existing Dust Project Saturday (Mid-Day) 4 0 14,368 40 75 0 0 1.8% 0.7% 65.1 #### 1,825 1,379 26 90 13 3 19 8 67.4 76.3 81.2 -1.8 64.5 56.6 57.4 66.8 61.5 49.0 47.9 48.8 47.9 46.1 67.5 52.0 Existing Dust Project Weekday (Evening) 5 0 14,368 40 75 0 0 1.8% 0.7% 65.1 #### 1,825 1,379 26 90 13 3 19 8 67.4 76.3 81.2 -1.8 64.5 56.6 57.4 66.8 61.5 49.0 47.3 61.9 47.6 46.5 47.5 52.0 Existing Dust Project Weekday (Evening) 5 0 16,914 40 75 0 0 1.8% 0.7% 65.1 #### 1,827 1,381 2.9 1.8 64.5 56.6 57.5 66.8 61.5 49.0 47.3 61.9 47.6 61.9 47.5 61.0 47	Build-out Year (2040) with Project Saturday (Mid-Day)]	2	0	24,216	40	75	0	0	1.8%	0.7%	66.6	#### 3,075 2,325 381 1	51 22	5	33	14 67	.4 76.3	3 81.2	-1.8	66.0	58.2 59	.0 67.4	63.1 5	0.6 48	.8 63.5	49.9	48.7	49.8 54.3
Existing Weekday (Evening) 2 0 15,582 40 75 0 0 1.8% 0.7% 64.7 #### 1,977 1,495 245 97 14 3 21 9 6.74 76.3 81.2 -1.8 64.1 56.3 57.1 65.5 61.1 48.7 46.9 61.5 47.9 46.8 47.9 52.3 Existing Dust Project Weekday (Evening) 2 0 15,592 40 75 0 0 1.8% 0.7% 63.9 #### 1,645 1,243 204 81 12 3 18 7 67.4 76.3 81.2 -1.8 64.1 56.3 57.1 65.5 61.1 48.7 46.9 61.5 47.9 46.8 47.9 52.3 Existing Dust Project Saturday (Mid-Day) 2 0 15,592 40 75 0 0 1.8% 0.7% 63.9 #### 1,645 1,245 20.4 81 12 3 18 7 67.4 76.3 81.2 -1.8 64.1 56.3 57.1 65.5 61.1 48.7 46.9 61.5 47.9 46.8 47.9 52.3 Existing Dust Project Saturday (Mid-Day) 2 0 12,968 40 75 0 0 1.8% 0.7% 63.9 #### 1,645 1,245 20.4 81 12 3 18 7 67.4 76.3 81.2 -1.8 64.1 56.3 57.1 65.5 61.1 48.7 46.9 61.5 47.9 46.8 47.9 52.3 Existing Dust Project Saturday (Mid-Day) 3 0 18,96 0.7% 63.9 #### 1,645 1,245 20.4 81 12 3 18 7 67.4 76.3 81.2 -1.8 64.1 56.3 57.1 65.5 61.1 48.7 46.9 61.5 47.9 46.8 47.9 52.3 Existing Dust Project Saturday (Mid-Day) 4 0 14,968 40 75 0 0 1.8% 0.7% 65.1 #### 1,645 1,245 20.4 81 12 3 18 7 67.4 76.3 81.2 -1.8 64.5 56.6 57.4 66.8 61.5 49.0 47.9 46.1 60.7 47.1 51.5 Existing Dust Project Saturday (Mid-Day) 4 0 14,368 40 75 0 0 1.8% 0.7% 65.1 #### 1,825 1,379 26 90 13 3 19 8 67.4 76.3 81.2 -1.8 64.5 56.6 57.4 66.8 61.5 49.0 47.9 48.8 47.9 46.1 67.5 52.0 Existing Dust Project Weekday (Evening) 5 0 14,368 40 75 0 0 1.8% 0.7% 65.1 #### 1,825 1,379 26 90 13 3 19 8 67.4 76.3 81.2 -1.8 64.5 56.6 57.4 66.8 61.5 49.0 47.3 61.9 47.6 46.5 47.5 52.0 Existing Dust Project Weekday (Evening) 5 0 16,914 40 75 0 0 1.8% 0.7% 65.1 #### 1,827 1,381 2.9 1.8 64.5 56.6 57.5 66.8 61.5 49.0 47.3 61.9 47.6 61.9 47.5 61.0 47	Vorha Linda Blvd w/o Imperial Hwy	l																											
Existing Saturday (Mid-Day) 2 0 12,952 40 75 0 0 1.8% 0.7% 63.9 ### 1,645 1,243 204 81 12 3 18 7 67.4 76.3 81.2 -1.8 63.3 55. 56.3 64.7 60.3 47.9 46.1 60.7 47.1 46.0 47.5 15.5 Existing plus Project Weekday (Evening) 2 0 15,598 40 75 0 0 1.8% 0.7% 63.9 ### 1,645 1,243 204 81 12 3 18 7 67.4 76.3 81.2 -1.8 63.3 55.5 56.3 64.7 60.3 47.9 46.1 60.7 47.1 46.0 47.5 15.5 Existing plus Project Staturday (Mid-Day) 3 18 7 67.4 76.3 81.2 -1.8 63.3 55.5 56.3 64.7 60.3 47.9 46.1 60.7 47.0 48.1 21.3 18 7 67.4 76.3 81.2 -1.8 63.3 55.5 56.3 64.7 60.3 47.9 46.1 60.7 47.1 46.0 47.5 15.5 Existing plus Project Weekday (Evening) 4 1 1,647 1,245 20 48 1 12 3 18 7 67.4 76.3 81.2 -1.8 63.3 55.5 56.3 64.7 60.3 47.9 46.1 60.7 47.0 48.1 40.7 51.5 Existing plus Project Weekday (Evening) 5 2 0 16,888 40 75 0 0 1.8% 0.7% 65.1 ### 2,145 1,621 26.0 10.5 15.3 23.1 0 67.4 76.3 81.2 -1.8 63.3 55.5 56.3 64.7 60.3 47.9 46.1 60.7 47.0 48.0 47.5 15.5 Existing plus Project Weekday (Evening) 5 2 0 16,888 40 75 0 0 1.8% 0.7% 65.1 ### 2,145 1,621 26.0 10.5 15.3 23.1 0 67.4 76.3 81.2 -1.8 63.8 55.9 56.7 65.1 60.3 47.9 46.1 60.7 47.0 48.1 42.1 41.0 41.0 41.0 41.0 41.0 41.0 41.0 41			2	0	15 569	40	75	0	n	1.8%	0.7%	64.7	##### 1 077 1 //05 2/6 0	7 14	3	21	a 67	4 76 9	3 81 2	-1 º	64.1	563 57	1 65.5	611 4	87 /6	0 61 5	470	46.8	470 522
Existing plus Project Weekday (Evening) 2 0 15,592 40 75 0 0 1.8% 0.7% 64.7 #### 1,980 1,497 245 97 14 3 21 9 67.4 76.3 81.2 -1.8 64.1 56.3 57.1 65.5 61.1 48.7 46.9 61.5 48.0 46.8 47.9 52.3 Existing plus Project Saturday (Mid-Day) 2 0 12,968 40 75 0 0 1.8% 0.7% 65.1 #### 1,245 204 81 12 3 18 7 67.4 76.3 81.2 -1.8 64.5 56.6 57.4 66.8 61.5 49.0 47.9 42.5 15.5 Copening Year (2021) Without Project Weekday (Evening) 2 0 14,368 40 75 0 0 1.8% 0.7% 65.1 #### 1,245 1,379 22.6 90 13 3 19 8 67.4 76.3 81.2 -1.8 64.5 56.6 57.4 66.8 61.5 49.0 47.2 42.5 52.7 Copening Year (2021) Without Project Saturday (Mid-Day) 2 0 14,368 40 75 0 0 1.8% 0.7% 65.1 #### 1,245 1,379 22.6 90 13 3 19 8 67.4 76.3 81.2 -1.8 64.5 66.5 57.6 66.8 61.5 49.0 47.3 52.0 Copening Year (2021) With Project Saturday (Mid-Day) 2 0 14,384 40 75 0 0 1.8% 0.7% 65.1 #### 2,145 16.1 26.2 60 0 13 3 19 8 67.4 76.3 81.2 -1.8 64.5 66.5 57.6 66.8 61.5 49.0 47.3 62.0 Copening Year (2021) With Project Saturday (Mid-Day) 3 10 67.4 76.3 81.2 -1.8 64.5 66.5 57.6 66.8 61.5 49.0 47.3 62.0 47.5 52.0 Copening Year (2021) With Project Saturday (Mid-Day) 4 14,384 40 75 0 0 1.8% 0.7% 65.9 #### 2,145 16.1 26.2 60 0 13 3 19 8 67.4 76.3 81.2 -1.8 63.8 55.9 56.7 65.1 60.8 48.3 46.6 61.2 47.6 46.5 47.5 52.0 Copening Year (2021) With Project Saturday (Mid-Day) 4 14,384 40 75 0 0 1.8% 0.7% 65.9 #### 2,145 16.1 26.2 60 0 13 3 19 8 67.4 76.3 81.2 -1.8 63.8 55.9 56.7 65.1 60.8 48.3 46.6 61.2 47.6 46.5 47.5 52.0 Copening Year (2021) With Depth Saturday (Mid-Day) 5 2 0 20,464 40 75 0 0 1.8% 0.7% 65.9 #### 2,599 1,965 32.2 12.8 19 4 2.8 12 67.4 76.3 81.2 -1.8 63.8 55.9 56.7 65.1 60.8 48.3 46.6 61.2 47.6 46.5 47.5 52.0 Copening Year (2040) Without Project Weekday (Evening) 5 2 0 20,468 40 75 0 0 1.8% 0.7% 65.9 #### 2,590 1,965 32.2 12.8 19 4 2.8 12 67.4 76.3 81.2 -1.8 63.8 57.5 58.3 66.6 62.3 49.9 48.1 62.7 49.1 48.0 49.0 53.5 Ebuild-out Year (2040) without Project Weekday (Evening) 5 2 0 20,468 40 75 0 0 1.8% 0.7% 65.9 #### 2,602 1,967 3.2 12.8 19 4 2.8 12 67.4 76.3 81.2 -1.8 63.6 57.5 58.3 6			-	-	-,			•	•																				
Existing plus Project Saturday (Mid-Day) 2 0 12,968 40 75 0 0 1.8% 0.7% 63.9 #### 1,647 1,245 204 81 12 3 18 7 67.4 76.3 81.2 -1.8 63.3 55.5 56.3 64.7 60.3 47.9 46.1 60.7 47.2 46.0 47.1 51.5 Opening Year (2021) Without Project Weekday (Evening) 2 0 16,988 40 75 0 0 1.8% 0.7% 65.1 #### 2,145 1621 266 105 15 3 23 10 67.4 76.3 81.2 -1.8 64.5 56.6 57.6 65.8 61.5 49.0 47.3 61.9 48.3 47.2 48.2 52.7 Opening Year (2021) Without Project Saturday (Mid-Day) 2 0 16,982 40 75 0 0 1.8% 0.7% 65.1 #### 2,145 1624 266 105 15 3 23 10 67.4 76.3 81.2 -1.8 64.5 56.6 57.6 65.8 61.5 49.0 47.3 61.9 48.3 47.2 48.2 52.7 Opening Year (2021) with Project Weekday (Evening) 2 0 16,982 40 75 0 0 1.8% 0.7% 65.1 #### 2,145 1624 266 105 15 3 23 10 67.4 76.3 81.2 -1.8 64.5 66.6 57.6 65.8 61.5 49.0 47.3 61.9 48.3 47.2 48.2 52.7 Opening Year (2021) with Project Saturday (Mid-Day) 3 1 2 0 14,384 40 75 0 0 1.8% 0.7% 65.1 #### 1,827 1,381 226 90 13 3 19 8 67.4 76.3 81.2 -1.8 64.5 66.6 57.6 65.8 61.5 49.0 47.3 61.9 48.3 47.2 48.2 52.0 Opening Year (2021) with Project Weekday (Evening) 4 2 0 20,464 40 75 0 0 1.8% 0.7% 65.9 #### 2,599 1,965 32.2 128 19 4 28 12 67.4 76.3 81.2 -1.8 64.5 66.5 57.5 58.3 66.6 62.3 49.9 48.1 62.7 49.1 48.0 49.0 53.5 Opening Year (2040) without Project Saturday (Mid-Day) 4 2 0 20,464 40 75 0 0 1.8% 0.7% 65.9 #### 2,599 1,965 32.2 128 19 4 28 12 67.4 76.3 81.2 -1.8 64.5 65.0 57.5 58.3 66.6 62.3 49.9 48.1 62.7 49.1 48.0 49.0 53.5 Opening Year (2040) without Project Weekday (Evening) 4 2 0 20,464 40 75 0 0 1.8% 0.7% 65.9 #### 2,590 1,965 32.2 128 19 4 28 12 67.4 76.3 81.2 -1.8 64.5 65.0 57.5 58.3 66.6 62.3 49.9 48.1 62.7 49.1 48.0 49.0 53.5 Opening Year (2040) without Project Weekday (Evening) 5 2 0 20,468 40 75 0 0 1.8% 0.7% 65.9 #### 2,602 1,967 32.2 128 19 4 28 12 67.4 76.3 81.2 -1.8 64.5 65.0 57.5 58.3 66.6 62.3 49.9 48.1 62.7 49.1 48.0 49.0 53.5 Opening Year (2040) without Project Weekday (Evening) 5 3 4 5 5 5 5 6.8 61.5 49.0 47.5 61.9 48.0 47.5 52.0 47.5 52.0 47.5 52.0 47.5 52.0 47.5 52.0 47.5 52.0 47.5 52.0 47.5 52.0 47.5		1	-	•				•	•			2007/00/00	,,		-														
Depening Year (2021) Without Project Weekday (Evening) 2 0 16,888		1	_	-					-																				
Comming Year (2021) Without Project Saturday (Mid-Day) 2 0 14,388 40 75 0 0 1.8% 0.7% 64.4 #### 1,825 1,379 226 90 13 3 19 8 67.4 76.3 81.2 -1.8 63.8 55.9 56.7 65.1 60.8 48.3 46.6 61.2 47.6 46.5 47.5 52.0		1	-		,			-	-						-														
Depening Year (2021) with Project Weekday (Evening) 2 0 16,912 40 75 0 0 1.8% 0.7% 65.1 #### 2,148 1,624 266 105 15 3 23 10 67.4 76.3 81.2 -1.8 64.5 56.6 57.5 65.8 61.5 49.0 47.3 61.9 48.3 47.2 48.2 52.7		1	-	-	.,			-																					
Depening Year (2021) with Project Saturday (Mid-Day) 2 0 14,384 40 75 0 0 1.8% 0.7% 64.4 #### 1,827 1,381 226 90 13 3 19 8 67.4 76.3 81.2 -1.8 63.8 55.9 56.7 65.1 60.8 48.3 46.6 61.2 47.6 46.5 47.5 52.0		1	-					-	-			2007/06/04	,,		-		0 0.												
Build-out Year (2040) without Project Weekday (Evening) 2 0 20,464 40 75 0 0 1.8% 0.7% 65.9 #### 2,599 1.965 32 128 19 4 28 12 67.4 76.3 81.2 -1.8 65.3 57.5 58.3 66.6 62.3 49.9 48.1 62.7 49.1 48.0 49.0 53.5 Ebuild-out Year (2040) without Project Saturday (Mid-Day) 2 0 17,352 40 75 0 0 1.8% 0.7% 65.2 #### 2,602 1,967 322 128 19 4 28 12 67.4 76.3 81.2 -1.8 64.6 56.7 57.6 65.9 61.6 49.2 47.4 62.0 48.4 47.3 48.3 52.8 Ebuild-out Year (2040) with Project Weekday (Evening) 2 0 20,488 40 75 0 0 1.8% 0.7% 65.9 #### 2,602 1,967 322 128 19 4 28 12 67.4 76.3 81.2 -1.8 65.3 57.5 58.3 66.7 62.3 49.9 48.1 62.7 49.1 48.0 49.0 53.5		1	-	-	- , -			-	-																				
Build-out Year (2040) without Project Saturday (Mid-Day) 2 0 17,352 40 75 0 0 1.8% 0.7% 65.2 #### 2,04 1,666 273 108 16 3 23 10 67.4 76.3 81.2 -1.8 64.6 56.7 57.6 65.9 61.6 49.2 47.4 62.0 48.4 47.3 48.3 52.8 Build-out Year (2040) with Project Weekday (Evening) 2 0 20,488 40 75 0 0 1.8% 0.7% 65.9 #### 2,602 1,967 322 128 19 4 28 12 67.4 76.3 81.2 -1.8 65.3 57.5 58.3 66.7 62.3 49.9 48.1 62.7 49.1 48.0 49.0 53.5		1	_		,			-	-																				
Build-out Year (2040) with Project Weekday (Evening) 2 0 20,488 40 75 0 0 1.8% 0.7% 65.9 #### 2,602 1,967 322 128 19 4 28 12 67.4 76.3 81.2 -1.8 65.3 57.5 58.3 66.7 62.3 49.9 48.1 62.7 49.1 48.0 49.0 53.5		1		-	-, -			-																					
			-					•	•						-														
<u>Bullia-out Year (244u) with Project Saturday (Mino-Day)</u> 2 U 17,308 4U 75 U U 1.8% U.7% 65.2 #### 2,206 1,666 7.73 108 16 3 24 10 67.4 76.3 81.2 -1.8 64.6 56.7 57.6 65.9 61.6 49.2 47.4 62.0 48.4 47.3 48.3 52.8			_	-				-	-																				
	Build-out Year (2040) with Project Saturday (Mid-Day)	J	2	U	17,368	40	/5	U	U	1.8%	0.7%	65.2	#### 2,206 1,667 2/3 10	16 טע	3	24 '	IU 6/	.4 /6.3	3 81.2	-1.8	64.6	50.7 57	.0 65.9	01.6 4	9.2 47	.4 62.0	48.4	47.3	46.3 52.8

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

Intersection: Project Dwy/Plumosa Dr & Lemon Dr

Project Dwy/Plumosa Dr

Southbound	

	right	through	left
Existing Weekday (Evening)	101	0	84
Existing Saturday (Mid-Day)	78	0	73
Existing plus Project Weekday (Evening)	101	2	84
Existing plus Project Saturday (Mid- Day)	78	3	73
Opening Year (2021) Without Project Weekday (Evening)	103	0	96
Opening Year (2021) Without Project Saturday (Mid-Day)	81	0	86
Opening Year (2021) with Project Weekday (Evening)	103	2	96
Opening Year (2021) with Project Saturday (Mid-Day)	81	3	86
Build-out Year (2040) without Project Weekday (Evening)	126	0	115
Build-out Year (2040) without Project Saturday (Mid-Day)	99	0	103
Build-out Year (2040) with Project Weekday (Evening)	126	2	115
Build-out Year (2040) with Project Saturday (Mid-Day)	99	3	103

w N E S

vvestbound			
	right	through	left
Existing Weekday (Evening)	78	79	0
Existing Saturday (Mid-Day)	57	106	0
Existing plus Project Weekday (Evening)	78	79	2
Existing plus Project Saturday (Mid- Day)	57	106	0
Opening Year (2021) Without Project Weekday (Evening	91	168	0
Opening Year (2021) Without Project Saturday (Mid-Day	70	205	0
Opening Year (2021) with Project Weekday (Evening)	91	168	2
Opening Year (2021) with Project Saturday (Mid-Day)	70	205	3
Build-out Year (2040) without Project Weekday (Evening	109	186	0
Build-out Year (2040) without Project Saturday (Mid-Day	83	230	0
Build-out Year (2040) with Project Weekday (Evening)	109	186	2
Build-out Year (2040) with Project Saturday (Mid-Day)	83	230	3

Eastbound

		lett	through	right
	Existing Weekday (Evening)	99	71	0
۵	Existing Saturday (Mid-Day)	87	98	0
Ξ	Existing plus Project Weekday (Evening)	99	71	34
Lemon	Existing plus Project Saturday (Mid- Day)	87	98	30
3	Opening Year (2021) Without Project Weekday (Evening)	101	154	0
	Opening Year (2021) Without Project Saturday (Mid-Day)	90	200	0
	Opening Year (2021) with Project Weekday (Evening)	101	154	34
	Opening Year (2021) with Project Saturday (Mid-Day)	90	200	30
	Build-out Year (2040) without Project Weekday (Evening)	124	171	0
	Build-out Year (2040) without Project Saturday (Mid-Day)	110	223	0
	Build-out Year (2040) with Project Weekday (Evening)	124	171	34
	Build-out Year (2040) with Project Saturday (Mid-Day)	110	223	30

Northbound

	left	through	right
Existing Weekday (Evening)	0	0	0
Existing Saturday (Mid-Day)	0	0	0
Existing plus Project Weekday (Evening)	22	1	1
Existing plus Project Saturday (Mid- Day)	0	0	0
Opening Year (2021) Without Project Weekday (Evening)	0	0	0
Opening Year (2021) Without Project Saturday (Mid-Day)	0	0	0
Opening Year (2021) with Project Weekday (Evening)	22	1	1
Opening Year (2021) with Project Saturday (Mid-Day)	0	0	0
Build-out Year (2040) without Project Weekday (Evening)	0	0	0
Build-out Year (2040) without Project Saturday (Mid-Day)	0	0	0
Build-out Year (2040) with Project Weekday (Evening)	22	1	1
Build-out Year (2040) with Project Saturday (Mid-Day)	0	0	0

If Peak Hour = 6% of ADT, Scaling Factor = 16.667
If Peak Hour = 7% of ADT, Scaling Factor = 14.286
If Peak Hour = 8% of ADT, Scaling Factor = 12.5
If Peak Hour = 9% of ADT, Scaling Factor = 11.111
If Peak Hour = 10% of ADT, Scaling Factor = 10.

		ADT		
Road	Project Dwy	/Plumosa Dr	Lem	on Dr
Leg	North of	South of	East of	West of
Cross Street	Lem	on Dr	Project Dwy	//Plumosa Dr
Existing Weekday (Evening)	2,896.0	0.0	2,496.0	2,800.0
Existing Saturday (Mid-Day)	2,360.0	0.0	2,672.0	2,952.0
Existing plus Project Weekday (Evening)	2,920.0	496.0	2,520.0	3,248.0
Existing plus Project Saturday (Mid- Day)	2,384.0	264.0	2,672.0	3,192.0
Opening Year (2021) Without Project Weekday (Evening	3,128.0	0.0	4,072.0	4,208.0
Opening Year (2021) Without Project Saturday (Mid-Day	2,616.0	0.0	4,488.0	4,608.0
Opening Year (2021) with Project Weekday (Evening)	3,152.0	496.0	4,096.0	4,656.0
Opening Year (2021) with Project Saturday (Mid-Day)	2,640.0	288.0	4,512.0	4,848.0
Build-out Year (2040) without Project Weekday (Evening		0.0	4,648.0	4,856.0
Build-out Year (2040) without Project Saturday (Mid-Day		0.0	5,112.0	5,296.0
Build-out Year (2040) with Project Weekday (Evening)	3,816.0	496.0	4,672.0	5,304.0
Build-out Year (2040) with Project Saturday (Mid-Day)	3,184.0	288.0	5,136.0	5,536.0

6 NOISE LEVEL CONTOURS

												- Traffic V	olumes						Ref. Er	nergy Le	evels Di	ist Lo	i		L	е			Ln			
					Design	Dist. from	В	arrier	Vehid	eMix																						
ROADWAY NAME			Median			Center to						Day Ev	e Night	t MTd	HTd I	MTe HT	e MTr	HTn	Α	MT H	IT A	dj A	MT	HT	Total A	. M	T HT	Total	A I	MT F	HT Tota	.al
Segment	Land Use	Lanes	Width	Volume	(mph)	ReceptorFa	actor (1 d	B(A)	Trucks	Trucks	CNEL																					
Project Dwy/Plumosa Dr n/o Lemon Dr																																
Existing Weekday (Evening)		2	0	2,896	40	75		0	1.8%	0.7%		2,250 3				3 1		2							8 58.2							
Existing Saturday (Mid-Day)	4	2	0	2,360	40	75	-	0	1.8%	0.7%	56.5	1,834 3		37	15	2 (, ,	1		76.3					9 57.3							
Existing plus Project Weekday (Evening)	4	2	0	2,920	40	75	0	0	1.8%	0.7%		2,269 3		46	18	3 1	1 4	2							8 58.2							
Existing plus Project Saturday (Mid- Day)	4	2	0	2,384	40	75	0	0	1.8%	0.7%		1,852 3		38	15	2 (1							9 57.3							
Opening Year (2021) Without Project Weekday (Evening)	4	2	0	3,128	40	75		0	1.8%	0.7%		2,430 3		49	20	3 1	1 4	2							1 58.5							
Opening Year (2021) Without Project Saturday (Mid-Day)	4	2	0	2,616	40	75	-	0	1.8%	0.7%	57.0	2,033 3		41	16	2 1	. 4	1							3 57.7							
Opening Year (2021) with Project Weekday (Evening) Opening Year (2021) with Project Saturday (Mid-Day)	-	2	0	3,152 2.640	40 40	75 75	0	0	1.8% 1.8%	0.7%	2000	2,449 4 2.051 3		50 42	20 16	3 1	l 4	2							2 58.5 ± 4 57.8 ±							
Build-out Year (2040) with Project Saturday (Mid-Day) Build-out Year (2040) without Project Weekday (Evening)	-	2	0	3,792	40	75 75		0	1.8%	0.7%		2,051 3		60	24	3 1	1 4 I 5	2														
Build-out Year (2040) without Project Weekday (Evening) Build-out Year (2040) without Project Saturday (Mid-Day)	1	2	0	3,792	40	75 75	-	0	1.8%	0.7%		2,946 4		50	20	3 1	1 5 1 4	2							0 59.3 2 58.5							
Build-out Year (2040) with Project Saturday (Mid-Day) Build-out Year (2040) with Project Weekday (Evening)	-	2	0	3,816	40	75 75	0	0	1.8%	0.7%		2,455 4		60	24	3 1		2							0 59.4							
Build-out Year (2040) with Project Weekday (Evening) Build-out Year (2040) with Project Saturday (Mid-Day)		2	0	3,184	40	75		0	1.8%	0.7%		2,303 4			20	3 1	1 4	2							2 58.6							
Build-out Tear (2040) with Froject Saturday (Mid-Day)	J.	2	U	3, 104	40	15	U	U	1.070	0.7 70	31.0	2,414 4	04 300	30	20	3 1	-		07.4	70.5	1.2 -	1.0	1.2 40	4 30.2	2 30.0	J4.Z 4	1.0 40	.0 34.0	41.1	33.3	41.0 40	.4
Project Dwy/Plumosa Dr s/o Lemon Dr	1																															
Existing Weekday (Evening)	1	2	0	0	40	75	0	0	1.8%	0.7%	#NUM!	0	0 0	0	0	0 0	0	0	67.4	76.3	31.2 -	1.8 #	### ###	# ###	# ##### #	#### ##	### ###	## #####	####	##### #	#### ###	##
Existing Saturday (Mid-Day)		2	0	0	40	75	0	0	1.8%	0.7%	#NUM!	0	0 0	0	0	0 0	0	0	67.4	76.3	31.2 -	1.8 #	### ###	# ###	# ##### #	#### ##	### ###	## #####	####	##### #	#### ###	##
Existing plus Project Weekday (Evening)		2	0	496	40	75	0	0	1.8%	0.7%	49.8	385 6	3 48	8	3	0 0) 1	0	67.4	76.3 8	31.2 -	1.8 4	9.2 41	.3 42.1	1 50.5	46.2 3	3.7 32	.0 46.6	33.0	31.8	32.9 37	/.4
Existing plus Project Saturday (Mid- Day)		2	0	264	40	75	0	0	1.8%	0.7%	47.0	205 3	34 25	4	2	0 0	0 0	0	67.4	76.3 8	31.2 -	1.8 4	6.4 38	.6 39.4	4 47.8	43.4 3	1.0 29	.2 43.8	30.2	29.1	30.1 34	∔.6
Opening Year (2021) Without Project Weekday (Evening)		2	0	0	40	75	0	0	1.8%	0.7%	#NUM!	0	0 0	0	0	0 0	0 0	0	67.4	76.3 8	31.2 -	1.8 #	### ###	# ####	# #### #	#### ##	### ###	## #####	##### 3	##### #	#### ###	##
Opening Year (2021) Without Project Saturday (Mid-Day)		2	0	0	40	75	-	0	1.8%	0.7%	#NUM!	0	0 0	0	0	0 0	0	0							# #### #							
Opening Year (2021) with Project Weekday (Evening)		2	0	496	40	75	0	0	1.8%	0.7%	49.8	385 6	3 48	8	3	0 0		0							1 50.5							
Opening Year (2021) with Project Saturday (Mid-Day)		2	0	288	40	75		0	1.8%	0.7%	47.4	224 3	37 28	5	2	0 0	0	0		76.3					8 48.1							
Build-out Year (2040) without Project Weekday (Evening)		2	0	0	40	75	0	0	1.8%	0.7%	#NUM!		0 0	0	0	0 0	0	0							# ##### #					##### #	#### ###	##
Build-out Year (2040) without Project Saturday (Mid-Day)		2	0	0	40	75	-	0	1.8%	0.7%	#NUM!			0	0	0 0		0							# ##### #					##### #	#### ###	#
Build-out Year (2040) with Project Weekday (Evening)		2	0	496 288	40 40	75 75		0	1.8% 1.8%	0.7%	49.8 47.4	385 6 224 3	3 48 37 28	8 5	3	0 0		0							1 50.5							
Build-out Year (2040) with Project Saturday (Mid-Day)	1	2	U	200	40	75	U	U	1.070	U.1 70	47.4	224	01 20	3	2	0 0	, ,	0	07.4	10.5	01.2 -	1.0 4	0.0 30	9 39.0	8 48.1	+3.0 3	1.4 28	.0 44.2	30.0	29.5	30.5 35	0
Lemon Dr e/o Project Dwy/Plumosa Dr	ĺ																															
Existing Weekday (Evening)		2	0	2,496	40	75	0	0	1.8%	0.7%	56.8	1,939 3	17 240	39	16	2 0	3	1	67.4	76.3 8	31.2 -	1.8 5	6.2 48	.3 49.1	1 57.5	53.2 4	0.7 39	.0 53.6	40.0	38.9	39.9 44	∔.4
Existing Saturday (Mid-Day)		2	0	2,672	40	75	0	0	1.8%	0.7%	57.1	2,076 3	39 257	42	17	2 1	1 4	2	67.4	76.3 8	31.2 -	1.8 5	6.5 48	.6 49.4	4 57.8	53.5 4	1.0 39	.3 53.9	40.3	39.2	40.2 44	∔.7
Existing plus Project Weekday (Evening)		2	0	2,520	40	75	0	0	1.8%	0.7%	56.8	1,958 3	20 242	40	16	2 1	1 3	1	67.4	76.3 8	31.2 -	1.8 5	6.2 48	.4 49.2	2 57.6	53.2 4	0.8 39	.0 53.6	40.0	38.9	39.9 44	₊.4
Existing plus Project Saturday (Mid- Day)		2	0	2,672	40	75		0	1.8%	0.7%		2,076 3		42	17	2 1		2							4 57.8							
Opening Year (2021) Without Project Weekday (Evening)		2	0	4,072	40	75	0	0	1.8%	0.7%	58.9	3,164 5	17 391	64	25	4 1	1 6	2	67.4	76.3	31.2 -	1.8 5	8.3 50	.4 51.3	3 59.6	55.3 4	2.9 41	.1 55.7	42.1	41.0	42.0 46	i.5
Opening Year (2021) Without Project Saturday (Mid-Day)		2	0	4,488	40	75		0	1.8%	0.7%		3,487 5		71	28	4 1	1 6	3		76.3					7 60.1							
Opening Year (2021) with Project Weekday (Evening)		2	0	4,096	40	75	0	0	1.8%	0.7%		3,183 5		64	26	4 1	1 6	2							3 59.7							
Opening Year (2021) with Project Saturday (Mid-Day)	4	2	0	4,512	40	75		0	1.8%	0.7%		3,506 5			28	4 1		3							7 60.1							
Build-out Year (2040) without Project Weekday (Evening)	1	2	0	4,648	40	75	-	0	1.8%	0.7%		3,611 5		73	29	4 1	6	3							8 60.2							
Build-out Year (2040) without Project Saturday (Mid-Day)	1	2	0	5,112	40	75		0	1.8%	0.7%		3,972 6		80	32	5 1		3							3 60.6							
Build-out Year (2040) with Project Weekday (Evening) Build-out Year (2040) with Project Saturday (Mid-Day)	-	2	0	4,672 5,136	40 40	75 75	0	0	1.8% 1.8%	0.7%		3,630 5 3,991 6		74 81	29 32	4 1 5 1		3							9 60.2							
Build-out Year (2040) with Project Saturday (Mid-Day)	1	2	U	5, 136	40	75	U	U	1.8%	0.7%	59.9	3,991 6	52 493	81	32	5 1	1 /	3	67.4	10.3	31.2 -	1.8 0	9.3 51	4 52.3	3 60.6	00.3 4	3.9 42	.1 50.7	43.1	42.0	43.0 47	.э
Lemon Dr w/o Project Dwy/Plumosa Dr	ĺ																															
Existing Weekday (Evening)	1	2	0	2.800	40	75	0	0	1.8%	0.7%	57.3	2.176 3	56 269	44	17	3 1	1 4	2	67.4	76.3	31.2 -	1.8 5	6.7 48	.8 49.6	6 58.0	53.7 4	1.2 39	.5 54.1	40.5	39.4	40.4 44	4.9
Existing Saturday (Mid-Day)	1	2	0	2.952	40	75	0	0	1.8%	0.7%		2.294 3		46	18	3 1	1 4	2							9 58.2							
Existing plus Project Weekday (Evening)		2	0	3,248	40	75	0	0	1.8%	0.7%	57.9	2,524 4	12 312	51	20	3 1	1 4	2	67.4	76.3 8	31.2 -	1.8 5	7.3 49	.5 50.3	3 58.7	54.3 4	1.9 40	.1 54.7	41.1	40.0	41.0 45	i.5
Existing plus Project Saturday (Mid- Day)	1	2	0	3,192	40	75	0	0	1.8%	0.7%		2,480 4		50	20	3 1	1 4	2							2 58.6							
Opening Year (2021) Without Project Weekday (Evening)	1	2	0	4,208	40	75	0	0	1.8%	0.7%	59.0	3,270 5	34 404	66	26	4 1	1 6	2		76.3 8					4 59.8							
Opening Year (2021) Without Project Saturday (Mid-Day)		2	0	4,608	40	75	0	0	1.8%	0.7%	59.4	3,580 5	85 442	73	29	4 1	1 6	3	67.4	76.3	31.2 -	1.8 5	8.8 51	.0 51.8	8 60.2	55.9 4	3.4 41	.6 56.2	42.7	41.5	42.6 47	41
Opening Year (2021) with Project Weekday (Evening)		2	0	4,656	40	75	0	0	1.8%	0.7%	59.5	3,618 5	91 447	73	29	4 1	1 6	3	67.4	76.3	31.2 -	1.8 5	8.9 51	.0 51.8	8 60.2	55.9 4	3.4 41	.7 56.3	42.7	41.6	42.6 47	41
Opening Year (2021) with Project Saturday (Mid-Day)		2	0	4,848	40	75	0	0	1.8%	0.7%	59.7	3,767 6	16 465	76	30	4 1	1 7	3	67.4	76.3	31.2 -	1.8 5	9.1 51	.2 52.0	0 60.4	56.1 4	3.6 41	.9 56.5	42.9	41.7	42.8 47	.3
Build-out Year (2040) without Project Weekday (Evening)		2	0	4,856	40	75	-	0	1.8%	0.7%	200200000000000000000000000000000000000	3,773 6		76	30	4 1	7	3		76.3					0 60.4							
Build-out Year (2040) without Project Saturday (Mid-Day)	1	2	0	5,296	40	75	0	0	1.8%	0.7%		4,115 6		83	33	5 1	7	3							4 60.8							
Build-out Year (2040) with Project Weekday (Evening)	1	2	0	5,304	40	75	-	0	1.8%	0.7%		4,121 6			33	5 1		3							4 60.8							
Build-out Year (2040) with Project Saturday (Mid-Day)	<u>j</u>	2	0	5,536	40	75	0	0	1.8%	0.7%	60.2	4,301 7	03 531	87	35	5 1	1 7	3	67.4	76.3	31.2 -	1.8 5	9.6 51	.8 52.6	6 61.0	56.7 4	4.2 42	.4 57.0	43.5	42.3	43.4 47	.8

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

Project Name Weekday All Hours

Intersection: Olinda St & Lemon Dr

Olinda St

Northbound

	right	through	left
Existing Weekday (Evening)	0	1	2
Existing Saturday (Mid-Day)	4	0	1
Existing plus Project Weekday (Evening)	0	1	2
Existing plus Project Saturday (Mid- Day)	4	0	1
Opening Year (2021) Without Project Weekday (Evening)	0	1	2
Opening Year (2021) Without Project Saturday (Mid-Day)	4	0	1
Opening Year (2021) with Project Weekday (Evening)	0	1	2
Opening Year (2021) with Project Saturday (Mid-Day)	4	0	1
Build-out Year (2040) without Project Weekday (Evening)	0	1	3
Build-out Year (2040) without Project Saturday (Mid-Day)	5	0	1
Build-out Year (2040) with Project Weekday (Evening)	0	1	3
Build-out Year (2040) with Project Saturday (Mid-Day)	5	0	1

Eastbound left through right

		1011	unougn	HIGHE
	Existing Weekday (Evening)	1	159	20
۵	Existing Saturday (Mid-Day)	2	151	20
5	Existing plus Project Weekday (Evening)	1	160	20
Ē	Existing plus Project Saturday (Mid- Day)	2	150	20
3	Opening Year (2021) Without Project Weekday (Evening)	1	254	20
	Opening Year (2021) Without Project Saturday (Mid-Day)	2	266	20
	Opening Year (2021) with Project Weekday (Evening)	1	255	20
	Opening Year (2021) with Project Saturday (Mid-Day)	2	265	20
	Build-out Year (2040) without Project Weekday (Evening)	1	291	25
	Build-out Year (2040) without Project Saturday (Mid-Day)	3	301	25
	Build-out Year (2040) with Project Weekday (Evening)	1	292	25
	Build-out Year (2040) with Project Saturday (Mid-Day)	3	300	25

	right	through	left
Existing Weekday (Evening)	5	97	16
Existing Saturday (Mid-Day)	2	151	20
Existing plus Project Weekday (Evening)	5	99	20
Existing plus Project Saturday (Mid- Day)	2	154	25
Opening Year (2021) Without Project Weekday (Evening		197	23
Opening Year (2021) Without Project Saturday (Mid-Day	2	263	28
Opening Year (2021) with Project Weekday (Evening)	5	199	27
Opening Year (2021) with Project Saturday (Mid-Day)	2	266	33
Build-out Year (2040) without Project Weekday (Evening	6	219	27
Build-out Year (2040) without Project Saturday (Mid-Day	3	298	33
Build-out Year (2040) with Project Weekday (Evening)	6	221	31
Build-out Year (2040) with Project Saturday (Mid-Day)	3	301	38

rev. (Date)

N E S W

If Peak Hour = 6% of ADT, Scaling Factor = 16.667 If Peak Hour = 7% of ADT, Scaling Factor = 14.286 If Peak Hour = 6% of ADT, Scaling Factor = 12.5 If Peak Hour = 9% of ADT, Scaling Factor = 11.11 If Peak Hour = 10% of ADT, Scaling Factor = 10

		ADT			
Road	Olin	da St	Lem	on Dr	
Leg	North of	South of	East of	West of	
Cross Street	Lem	on Dr	Olinda St		
Existing Weekday (Evening)	88.0	960.0	2,656.0	2,440.0	
Existing Saturday (Mid-Day)	80.0	768.0	2,880.0	2,784.0	
Existing plus Project Weekday (Evening)	88.0	1,000.0	2,720.0	2,464.0	
Existing plus Project Saturday (Mid- Day)	80.0	792.0	2,920.0	2,800.0	
Opening Year (2021) Without Project Weekday (Evening	88.0	1,088.0	4,336.0	4,008.0	
Opening Year (2021) Without Project Saturday (Mid-Day	80.0	904.0	4,832.0	4,600.0	
Opening Year (2021) with Project Weekday (Evening)	88.0	1,128.0	4,400.0	4,032.0	
Opening Year (2021) with Project Saturday (Mid-Day)	80.0	928.0	4,872.0	4,616.0	
Build-out Year (2040) without Project Weekday (Evening) 112.0	1,312.0	4,952.0	4,568.0	
Build-out Year (2040) without Project Saturday (Mid-Day) 104.0	1,088.0	5,504.0	5,256.0	
Build-out Year (2040) with Project Weekday (Evening)	112.0	1,352.0	5,016.0	4,592.0	
Build-out Year (2040) with Project Saturday (Mid-Day)	104.0	1,112.0	5,544.0	5,272.0	

7 NOISE LEVEL CONTOURS

·												Traffic\	/olumes	3					R	ef. Ener	gy Leve	ls Dist	Ld			Le			Ln		
					Design	Dist. from	Bar	rier	Vehide N	Mix																					
ROADWAY NAME			Median	ADT	Speed	Center to A	Alpha At	tn. M	1edium H	łeavy	dB(A)	Day E	ve Nig	ght MTc	bTH b	MTe	HTe I	MTn H	ITn A	M ⁻	т нт	Adj	Α	MT H	T Total	Α	MT H	HT Tota	al A	MT H	HT Total
Segment	Land Use	Lanes	Width	Volume	(mph)	ReceptorFa	ctor (1 dB	(A) T	Trucks Ti	rucks	CNEL																				
Olinda St n/o Lemon Dr																															
Existing Weekday (Evening)		2	0	88	40	75	0 ()	1.8%).7%	42.2	68	11 8	3 1	1	0	0	0	0 6	7.4 76	3.3 81.	2 -1.8	8 41.6	33.8	34.6 43.0	38.7	26.2	24.4 39.	.1 25.5	24.3	25.4 29.9
Existing Saturday (Mid-Day)		2	0	80	40	75	0 ()	1.8%).7%	41.8	62	10 8	3 1	0	0	0	0	0 6	7.4 76	3.3 81.	2 -1.8	3 41.2	33.4	34.2 42.6	3 38.2	25.8	24.0 38.	.6 25.1	23.9	25.0 29.4
Existing plus Project Weekday (Evening)		2	0	88	40	75	0 ()	1.8%	0.7%	42.2	68	11 8	3 1	1	0	0	0													25.4 29.9
Existing plus Project Saturday (Mid- Day)		2	0	80	40	75	0 ()	1.8%	0.7%	41.8	62	10 8	3 1	0	0	0	0	0 6	7.4 76	3.3 81.	2 -1.8	3 41.2	33.4	34.2 42.6	3 38.2	25.8	24.0 38.	.6 25.1	23.9	25.0 29.4
Opening Year (2021) Without Project Weekday (Evening)		2	0	88	40	75	0 ()	1.8%	0.7%	42.2	68	11 8	3 1	1	0	0	0	0 6	7.4 76	3.3 81.	2 -1.8	8 41.6	33.8 3	34.6 43.0	38.7	26.2	24.4 39.	.1 25.5	24.3	25.4 29.9
Opening Year (2021) Without Project Saturday (Mid-Day)		2	0	80	40	75	0 ()	1.8%	0.7%	41.8	62	10 8	3 1	0	0	0	0													25.0 29.4
Opening Year (2021) with Project Weekday (Evening)		2	0	88	40	75	0 ()	1.8%).7%	42.2	68	11 8	3 1	1	0	0	0													25.4 29.9
Opening Year (2021) with Project Saturday (Mid-Day)		2	0	80	40	75	0 ()	1.8%	0.7%	41.8	62	10 8	3 1	0	0	0	0	0 6	7.4 76	3.3 81.	2 -1.8	3 41.2	33.4	34.2 42.6	3 38.2	25.8	24.0 38.	.6 25.1	23.9	25.0 29.4
Build-out Year (2040) without Project Weekday (Evening)		2	0	112	40	75	0 ()	1.8%	0.7%	43.3	87	14 1	1 2	1	0	0	0	0 6	7.4 76	3.3 81.	2 -1.8	8 42.7	34.8 3	35.7 44.0	39.7	27.2	25.5 40.	.1 26.5	25.4	26.4 30.9
Build-out Year (2040) without Project Saturday (Mid-Day)		2	0	104	40	75	0 ()	1.8%).7%	43.0	81	13 1	0 2	1	0	0	0	0 6	7.4 76	3.3 81.	2 -1.8	8 42.4	34.5	35.3 43.7	7 39.4	26.9	25.2 39.	.8 26.2	25.1	26.1 30.6
Build-out Year (2040) with Project Weekday (Evening)		2	0	112	40	75	0 ()	1.8%	0.7%	43.3	87	14 1	1 2	1	0	0	0	0 6	7.4 76	3.3 81.	2 -1.8	3 42.7	34.8	35.7 44.0	39.7	27.2	25.5 40.	.1 26.5	25.4	26.4 30.9
Build-out Year (2040) with Project Saturday (Mid-Day)		2	0	104	40	75	0 ()	1.8%).7%	43.0	81	13 1	0 2	1	0	0	0	0 6	7.4 76	3.3 81.	2 -1.8	3 42.4	34.5	35.3 43.7	7 39.4	26.9	25.2 39.	.8 26.2	25.1	26.1 30.6
lor . o	i																														
Olinda St s/o Lemon Dr Existing Weekday (Evening)		2	0	960	40	75	0 (1.8%	0.7%	52.6	746	122 9	2 15	6	4	0	4	1 ^	71 7	2 04	2 4 6		442	IE 0 E0 4	4 40 0	26.6	24.0 40	4 25 1	247	35.8 40.2
Existing Weekday (Evening) Existing Saturday (Mid-Day)		2	0	768	40	75 75	0 ().7%).7%	52.0 51.6		98 7			1	0	1													34.8 39.3
Existing Saturday (Mid-Day) Existing plus Project Weekday (Evening)		2	0	1.000	40 40	75 75	0 ().7%).7%	0.0000000000000000000000000000000000000		98 7 127 9			1	0	1													34.8 39.3 35.9 40.4
Existing plus Project Weekday (Evening) Existing plus Project Saturday (Mid- Day)		2	0	792	40	75 75	0 (-		0.7%	0.0000000000000000000000000000000000000		101 7		-	1	0	1													34.9 39.4
Opening Year (2021) Without Project Weekday (Evening)		2	0	1.088	40	75	0 (-).7%	53.2		138 10			1	0														36.3 40.8
Opening Year (2021) Without Project Weekday (Evening) Opening Year (2021) Without Project Saturday (Mid-Day)		2	0	904	40	75	0 (-).7%	52.4		115 8		. 6	1	0														35.5 40.0
Opening Year (2021) with Project Saturday (wid-bay)		2	0	1.128	40	75	-	-		0.7%			143 10		7	1	0														36.5 40.9
Opening Year (2021) with Project Weekday (Evening) Opening Year (2021) with Project Saturday (Mid-Day)		2	0	928	40	75	0 ().7%			118 8		6	1	0	_													35.6 40.1
Build-out Year (2040) without Project Weekday (Evening)		2	0	1.312	40	75	0 (-		0.7%			167 12			1	0	2													37.1 41.6
Build-out Year (2040) without Project Veckday (Evening)		2	0	1.088	40	75	0 (-		0.7%			138 10		. 7	1	0	-													36.3 40.8
Build-out Year (2040) with Project Weekday (Evening)		2	0	1.352	40	75	-	-		0.7%			172 13		8	1	0	2													37.2 41.7
Build-out Year (2040) with Project Saturday (Mid-Day)		2	0	1,112	40	75				0.7%		,	141 10			1	0														36.4 40.9
h																															
Lemon Dr e/o Olinda St				0.050	40	7-			4.00/			0.004		40										40.0			44.0	000 50			40.0 44.7
Existing Weekday (Evening)		2	0	2,656	40	75	0 ().7%		2,064				2	1	4													40.2 44.7
Existing Saturday (Mid-Day)		2	0	2,880	40 40	75	•	-).7%		2,238 3				3	1				3.3 81.										40.5 45.0
Existing plus Project Weekday (Evening)		2	0	2,720 2.920	40 40	75 75	0 (-).7%).7%		2,113 3 2,269 3				2	1				3.3 81.										40.3 44.8 40.6 45.1
Existing plus Project Saturday (Mid- Day)		2	0	4.336	40	75 75	-	-).7%).7%		3,369 5				3	1														
Opening Year (2021) Without Project Weekday (Evening) Opening Year (2021) Without Project Saturday (Mid-Day)		2	0	4,336	40	75 75	0 ().7%).7%		3,754				4	1	-													42.3 46.8 42.8 47.3
Opening Year (2021) Without Project Saturday (Mid-Day) Opening Year (2021) with Project Weekday (Evening)		2	0	4,832	40	75 75	-	-).7%).7%		3,754 6				4	1														
Opening Year (2021) with Project Weekday (Evening) Opening Year (2021) with Project Saturday (Mid-Day)		2	0	4,400	40	75 75	0 ().7%).7%		3,419 3				4	1				3.3 81.										42.4 46.8 42.8 47.3
Build-out Year (2040) without Project Weekday (Evening)		2	0	4,952	40	75 75	•).7%).7%		3.848				5	1	-													42.0 47.3
Build-out Year (2040) without Project Saturday (Mid-Day)		2	0	5.504	40	75 75	0 (0.7%		4.277				5	1														43.3 47.8
Build-out Year (2040) with Project Saturday (Mid-Bay)		2	0	5,016	40	75	•	-		0.7%		3.897				5	1														42.9 47.4
Build-out Year (2040) with Project Weekday (Evening) Build-out Year (2040) with Project Saturday (Mid-Day)		2	0	5,544	40	75	0 (0.7%		4,308 7				5	1														43.4 47.9
Build-out Tear (2040) with Floject Outdray (Mid-Bay)		-	ŭ	0,011			•		1.070	J., 70	- OO.L	1,000		J. 0.	00		·	•					00.0	01.0	2.0 01.0			12.1	0 10.0		10.1 17.0
Lemon Dr w/o Olinda St																															
Existing Weekday (Evening)		2	0	2,440	40	75	0 (1.8%).7%		1,896				2	0	3													39.8 44.3
Existing Saturday (Mid-Day)		2	0	2,784	40	75	0 (-).7%		2,163				3	1	4													40.4 44.9
Existing plus Project Weekday (Evening)		2	0	2,464	40	75).7%		1,915				2	0	-			3.3 81.										39.8 44.3
Existing plus Project Saturday (Mid- Day)		2	0	2,800	40	75	0 ().7%		2,176				3	1														40.4 44.9
Opening Year (2021) Without Project Weekday (Evening)		2	0	4,008	40	75).7%		3,114 5				4	1														42.0 46.4
Opening Year (2021) Without Project Saturday (Mid-Day)		2	0	4,600	40	75	0 (-).7%		3,574				4	1	-			3.3 81.										42.6 47.0
Opening Year (2021) with Project Weekday (Evening)		2	0	4,032	40	75).7%		3,133 5				4	1				3.3 81.										42.0 46.5
Opening Year (2021) with Project Saturday (Mid-Day)		2	0	4,616	40	75	•).7%		3,587 5				4	1	-													42.6 47.1
Build-out Year (2040) without Project Weekday (Evening)		2	0	4,568	40	75).7%		3,549 5				4	1														42.5 47.0
Build-out Year (2040) without Project Saturday (Mid-Day)		2	0	5,256	40	75	0 ().7%		4,084 6				5	1				3.3 81.										43.1 47.6
Build-out Year (2040) with Project Weekday (Evening)		2	0	4,592	40	75).7%		3,568 5				4	1														42.6 47.0
Build-out Year (2040) with Project Saturday (Mid-Day)		2	0	5,272	40	75	0 ()	1.8%).7%	60.0	4,096	6/0 50	06 83	33	5	1	7	3 6	7.4 76	5.3 81.	2 -1.8	3 59.4	51.6	2.4 60.8	56.4	44.0	42.2 56	8 43.2	42.1	43.2 47.6

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

Southbound

Northbound

Intersection: Lakeview Ave & Lemon Dr

Lakeview Ave

	right	through	left
Existing Weekday (Evening)	36	297	0
Existing Saturday (Mid-Day)	52	343	1
Existing plus Project Weekday (Evening)	40	297	0
Existing plus Project Saturday (Mid- Day)	57	343	1
Opening Year (2021) Without Project Weekday (Evening)	48	410	0
Opening Year (2021) Without Project Saturday (Mid-Day)	68	487	1
Opening Year (2021) with Project Weekday (Evening)	52	410	0
Opening Year (2021) with Project Saturday (Mid-Day)	73	487	1
Build-out Year (2040) without Project Weekday (Evening)	56	478	0
Build-out Year (2040) without Project Saturday (Mid-Day)	80	566	1
Build-out Year (2040) with Project Weekday (Evening)	60	478	0
Build-out Year (2040) with Project Saturday (Mid-Day)	85	566	1

W E

Eastbound

		left	through	right
	Existing Weekday (Evening)	61	0	124
۵	Existing Saturday (Mid-Day)	60	0	120
E	Existing plus Project Weekday (Evening)	62	0	125
emo-	Existing plus Project Saturday (Mid- Day)	58	0	119
3	Opening Year (2021) Without Project Weekday (Evening)	80	0	210
	Opening Year (2021) Without Project Saturday (Mid-Day)	78	0	229
	Opening Year (2021) with Project Weekday (Evening)	81	0	211
	Opening Year (2021) with Project Saturday (Mid-Day)	76	0	228
	Build-out Year (2040) without Project Weekday (Evening)	94	0	239
	Build-out Year (2040) without Project Saturday (Mid-Day)	92	0	257
	Build-out Year (2040) with Project Weekday (Evening)	95	0	240
	Build-out Year (2040) with Project Saturday (Mid-Day)	90	0	256

	right	through	left
Existing Weekday (Evening)	1	2	1
Existing Saturday (Mid-Day)	0	1	3
Existing plus Project Weekday (Evening)	1	2	1
Existing plus Project Saturday (Mid- Day)	0	1	3
Opening Year (2021) Without Project Weekday (Evening		2	1
Opening Year (2021) Without Project Saturday (Mid-Day	0 (1	3
Opening Year (2021) with Project Weekday (Evening)	1	2	1
Opening Year (2021) with Project Saturday (Mid-Day)	0	1	3
Build-out Year (2040) without Project Weekday (Evening		3	1
Build-out Year (2040) without Project Saturday (Mid-Day	0 (1	4
Build-out Year (2040) with Project Weekday (Evening)	1	3	1
Build-out Year (2040) with Project Saturday (Mid-Day)	0	1	4

	right	through	left
Existing Weekday (Evening)	1	2	1
Existing Saturday (Mid-Day)	0	1	3
Existing plus Project Weekday (Evening)	1	2	1
Existing plus Project Saturday (Mid- Day)	0	1	3
Opening Year (2021) Without Project Weekday (Evening) 1	2	1
Opening Year (2021) Without Project Saturday (Mid-Day) 0	1	3
Opening Year (2021) with Project Weekday (Evening)	1	2	1
Opening Year (2021) with Project Saturday (Mid-Day)	0	1	3
Build-out Year (2040) without Project Weekday (Evening		3	1
Build-out Year (2040) without Project Saturday (Mid-Day) 0	1	4
Build-out Year (2040) with Project Weekday (Evening)	1	3	1
Build-out Year (2040) with Project Saturday (Mid-Day)	0	1	4

If Peak Hour = 6% of ADT, Scaling Factor = 16.667
If Peak Hour = 7% of ADT, Scaling Factor = 14.286
If Peak Hour = 8% of ADT, Scaling Factor = 12.5
If Peak Hour = 9% of ADT, Scaling Factor = 11.11
If Peak Hour = 10% of ADT, Scaling Factor = 10.

		ADT		
Road	Lakev	iew Ave	Lem	on Dr
Leg	North of	South of	East of	West of
Cross Street	Lem	on Dr	Lakev	iew Ave
Existing Weekday (Evening)	7,304.0	8,296.0	40.0	2,552.0
Existing Saturday (Mid-Day)	6,576.0	7,320.0	64.0	2,504.0
Existing plus Project Weekday (Evening)	7,344.0	8,320.0	40.0	2,616.0
Existing plus Project Saturday (Mid- Day)	6,600.0	7,336.0	64.0	2,544.0
Opening Year (2021) Without Project Weekday (Evening	9,672.0	11,904.0	40.0	4,288.0
Opening Year (2021) Without Project Saturday (Mid-Day	9,216.0	11,424.0	64.0	4,512.0
Opening Year (2021) with Project Weekday (Evening)	9,712.0	11,928.0	40.0	4,352.0
Opening Year (2021) with Project Saturday (Mid-Day)	9,240.0	11,440.0	64.0	4,552.0
Build-out Year (2040) without Project Weekday (Evening)	11,352.0	13,816.0	48.0	4,880.0
Build-out Year (2040) without Project Saturday (Mid-Day)	10,736.0	13,120.0	80.0	5,088.0
Build-out Year (2040) with Project Weekday (Evening)	11,392.0	13,840.0	48.0	4,944.0
Build-out Year (2040) with Project Saturday (Mid-Day)	10,760.0	13,136.0	80.0	5,128.0

8 NOISE LEVEL CONTOURS

												Traffic Vo	dumes						Ref. Ener	gy Level	s Dist	Ld			Le			Ln			
					Design	Dist. from	В	arrier	Vehid	eMix																					
ROADWAY NAME			Median	ADT								Day Eve	e Night	MTd H	ITd M	Те НТе	MTn I	HTn /	A M	г нт	Adj	Α	MT H	Total	Α	MT H	HT To	otal A	MT	HT To	otal
	Land Use	Lanes	Width	Volume	(mph)	ReceptorFa	actor (1 d	B(A)	Trucks	Trucks	CNEL	_																			
Lakeview Ave n/o Lemon Dr																															
Existing Weekday (Evening)		2	0	7,304	40	75	0	0	1.8%	0.7%		5,675 92			46		10							3.8 62.2						44.6 4	ł9.1
Existing Saturday (Mid-Day)		2	0	6,576	40	75	0	0	1.8%	0.7%	61.0	5,110 83			41 (6 1	9			6.3 81.2				3.3 61.7						44.1 4	.0.0
Existing plus Project Weekday (Evening)		2	0	7,344	40	75	0	0	1.8%	0.7%					46	7 1	10		67.4 76					3.8 62.2							
Existing plus Project Saturday (Mid- Day)		2	0	6,600	40	75	0	0		0.7%		5,128 83				6 1	9		67.4 76					3.4 61.7							
Opening Year (2021) Without Project Weekday (Evening)		2	0	9,672	40	75	0	0		0.7%		7,515 1,2			60 9		13							5.0 63.4							
Opening Year (2021) Without Project Saturday (Mid-Day)		2	0	9,216	40	75	0	0		0.7%		,			57 8		12		67.4 76					4.8 63.2							
Opening Year (2021) with Project Weekday (Evening)		2	0	9,712	40	75	0	0		0.7%		7,546 1,2			61 9		13							5.0 63.4							
Opening Year (2021) with Project Saturday (Mid-Day)		2	0	9,240	40	75	0	0		0.7%		7,179 1,1			58 8		13							4.8 63.2							
Build-out Year (2040) without Project Weekday (Evening)		2	0	11,352	40	75	0	0		0.7%		8,821 1,4	,			0 2	15							5.7 64.1							
Build-out Year (2040) without Project Saturday (Mid-Day)		2	0	10,736	40	75	0	0		0.7%						0 2	15		67.4 76					5.5 63.8							
Build-out Year (2040) with Project Weekday (Evening)		2	0	11,392	40	75	0	0		0.7%		8,852 1,4				0 2	15							5.7 64.1							
Build-out Year (2040) with Project Saturday (Mid-Day)		2	0	10,760	40	75	0	0	1.8%	0.7%	63.1	8,361 1,3	67 1,033	169	67 1	0 2	15	6	67.4 76	3.3 81.2	2 -1.8	62.5	54.7 5	5.5 63.9	59.5	47.1	45.3 5	9.9 46.3	45.2	46.3 5	0.7ز
Lakeview Ave s/o Lemon Dr																															
Existing Weekday (Evening)		2	0	8,296	40	75	0	0	1.8%	0.7%	62.0	6,446 1,0	54 796	131	52 8	B 2	11	5	67.4 76	.3 81.2	2 -1.8	61.4	53.5 5	4.4 62.7	58.4	45.9	44.2 5	8.8 45.2	44.1	45.1 4	19.6
Existing Saturday (Mid-Day)		2	0	7,320	40	75	0	0	1.8%	0.7%	61.4	5,688 93	0 703	115	46	7 1	10	4	67.4 76	.3 81.2	2 -1.8	60.8	53.0 5	3.8 62.2	57.9	45.4	43.6 5	8.3 44.7	43.5	44.6 4	49.1
Existing plus Project Weekday (Evening)		2	0	8,320	40	75	0	0	1.8%	0.7%	62.0	6,465 1,0	57 799	131	52 8	B 2	11	5	67.4 76	.3 81.2	2 -1.8	61.4	53.5 5	4.4 62.7	58.4	46.0	44.2 5	8.8 45.2	44.1	45.1 4	19.6
Existing plus Project Saturday (Mid- Day)		2	0	7,336	40	75	0	0	1.8%	0.7%	61.5	5,700 93	2 704	115	46	7 1	10	4	67.4 76	.3 81.2	2 -1.8	60.9	53.0 5	3.8 62.2	57.9	45.4	43.7 5	8.3 44.7	43.5	44.6 4	19.1
Opening Year (2021) Without Project Weekday (Evening)		2	0	11,904	40	75	0	0	1.8%	0.7%	63.6	9,249 1,5	12 1,143	187	74 1	1 2	16	7	67.4 76	.3 81.2	2 -1.8	63.0	55.1 5	5.9 64.3	60.0	47.5	45.8 6	0.4 46.8	45.6	46.7 5	51.2
Opening Year (2021) Without Project Saturday (Mid-Day)		2	0	11,424	40	75	0	0	1.8%	0.7%	63.4	8,876 1,4	51 1,097	180	71 1	0 2	15	6	67.4 76	.3 81.2	2 -1.8	62.8	54.9 5	5.7 64.1	59.8	47.3	45.6 6	0.2 46.6	45.5	46.5 5	51.0
Opening Year (2021) with Project Weekday (Evening)		2	0	11,928	40	75	0	0	1.8%	0.7%	63.6	9,268 1,5	15 1,145	188	74 1	1 2	16	7	67.4 76	.3 81.2	2 -1.8	63.0	55.1 5	5.9 64.3	60.0	47.5	45.8 6	0.4 46.8	45.7	46.7 5	51.2
Opening Year (2021) with Project Saturday (Mid-Day)		2	0	11,440	40	75	0	0	1.8%	0.7%	63.4	8,889 1,4	53 1,098	180	71 1	0 2	15	6	67.4 76	.3 81.2	2 -1.8	62.8	54.9 5	5.8 64.1	59.8	47.3	45.6 6	0.2 46.6	45.5	46.5 5	51.0
Build-out Year (2040) without Project Weekday (Evening)		2	0	13,816	40	75	0	0	1.8%	0.7%	64.2	#### 1,7	55 1,326	217	86 1	3 3	19	8	67.4 76	.3 81.2	2 -1.8	63.6	55.7 5	6.6 64.9	60.6	48.2	46.4 6	1.0 47.4	46.3	47.3 5	51.8
Build-out Year (2040) without Project Saturday (Mid-Day)		2	0	13,120	40	75	0	0	1.8%	0.7%	64.0	#### 1,6	66 1,260	206	82 1	2 3	18	7	67.4 76	.3 81.2	2 -1.8	63.4	55.5 5	6.3 64.7	60.4	47.9	46.2 6	0.8 47.2	46.1	47.1 5	51.6
Build-out Year (2040) with Project Weekday (Evening)		2	0	13,840	40	75	0	0	1.8%	0.7%	64.2	#### 1,7	58 1,329	218	86 1	3 3	19	8	67.4 76	.3 81.2	2 -1.8	63.6	55.8 5	6.6 65.0	60.6	48.2	46.4 6	1.0 47.4	46.3	47.3 5	51.8
Build-out Year (2040) with Project Saturday (Mid-Day)		2	0	13,136	40	75	0	0	1.8%	0.7%	64.0	#### 1,6	68 1,261	207	82 1	2 3	18	7	67.4 76	3.3 81.2	2 -1.8	63.4	55.5 5	6.4 64.7	60.4	47.9	46.2 6	0.8 47.2	46.1	47.1 5	51.6
Lemon Dr e/o Lakeview Ave																															
Existing Weekday (Evening)		2	0	40	40	75	0	0	1.8%	0.7%	38.8	31 5	4	1	0 (0 0	0	0	67.4 76	.3 81.2	2 -1.8	38.2	30.4 3	1.2 39.6	35.2	22.8	21.0 3	5.6 22.0	20.9	22.0 2	26.4
Existing Saturday (Mid-Day)		2	0	64	40	75	0	0	1.8%	0.7%	40.9	50 8	6	1	0 (0 0	0							3.2 41.6							
Existing plus Project Weekday (Evening)		2	0	40	40	75	0	0	1.8%	0.7%	38.8	31 5	4	1	0 (0 0	0							1.2 39.6							
Existing plus Project Saturday (Mid- Day)		2	ō	64	40	75	0	0		0.7%	40.9	50 8	6	1	0 (0 0	ō							3.2 41.6							
Opening Year (2021) Without Project Weekday (Evening)		2	ō	40	40	75	0	0		0.7%	38.8	31 5	4	1	0 (0 0	ō							1.2 39.6							
Opening Year (2021) Without Project Saturday (Mid-Day)		2	0	64	40	75	0	0		0.7%	40.9	50 8	6	1	0 (0 0	0							3.2 41.6							
Opening Year (2021) with Project Weekday (Evening)		2	0	40	40	75	0	0		0.7%	38.8	31 5	4	1	0 (0 0	0							1.2 39.6							
Opening Year (2021) with Project Saturday (Mid-Day)		2	ō	64	40	75	0	0		0.7%	40.9	50 8	6	1	0 (0 0	ō							3.2 41.6							
Build-out Year (2040) without Project Weekday (Evening)		2	0	48	40	75	0	0		0.7%	39.6	37 6	5	1	0 (0 0	0							2.0 40.4							
Build-out Year (2040) without Project Saturday (Mid-Day)		2	0	80	40	75	0	0		0.7%	41.8	62 10	0 8	1	0 (0 0	0							4.2 42.6							
Build-out Year (2040) with Project Weekday (Evening)		2	ō	48	40	75	0	0	1.8%	0.7%	39.6	37 6	5	1	0 (0 0	ō							2.0 40.4							
Build-out Year (2040) with Project Saturday (Mid-Day)		2	0	80	40	75	0	0	1.8%	0.7%	41.8	62 10	8 0	1	0 (0 0	0							4.2 42.6							
Lemon Dr. w/o Lakeview Ave																															
Existing Weekday (Evening)		2	0	2.552	40	75	0	0	1.8%	0.7%	56.9	1.983 32	4 245	40	16 2	2 1	3	1	67 / 74	2 24 7	10	56.2	19.1 4	9.2 57.6	E3 3	40.8	201 =	37 404	30.0	40.0	115
Existing Weekday (Evening) Existing Saturday (Mid-Day)		2	0	2,502	40	75 75	0	0	1.8%	0.7%	56.8				16 2		3			i.3 81.2				9.2 57.6 9.2 57.5							
Existing Saturday (Mid-Day) Existing plus Project Weekday (Evening)		2	0	2,504	40	75 75	0	0		0.7%	57.0	,			16 2	- 0	4		67.4 76					9.2 57.5 9.3 57.7							
Existing plus Project Weekday (Evening) Existing plus Project Saturday (Mid- Day)		2	0	2,616	40	75 75	0	0		0.7%	56.9				16 2		3			i.3 81.2				9.3 57.7 9.2 57.6							
Opening Year (2021) Without Project Weekday (Evening)		2	0	4.288	40	75 75	0	0		0.7%		.,,			27 4		6		67.4 76					9.2 57.6 1.5 59.9							
Opening Year (2021) Without Project Weekday (Evening) Opening Year (2021) Without Project Saturday (Mid-Day)		2	0	4,288	40	75 75	0	0		0.7%					28 4	+ I	6			i.3 81.2				1.5 59.9 1.7 60.1							
Opening Year (2021) Without Project Saturday (Mid-Day) Opening Year (2021) with Project Weekday (Evening)		2	0	4,352	40	75 75	0	0		0.7%					27 4	+ I	6	-	67.4 76					1.6 59.9							
		2	0	4,352 4.552		75 75	-	-		0.7%					28 4	4 1 4 1	6	-													
Opening Year (2021) with Project Saturday (Mid-Day)		2	0	4,552 4.880	40 40	75 75	0	0		0.7%							7	-		3 81.2				1.8 60.1							
Build-out Year (2040) without Project Weekday (Evening)		_	•	,			-	-				3,792 62			00		/							2.1 60.4							
Build-out Year (2040) without Project Saturday (Mid-Day)		2	0	5,088	40	75	0	0		0.7%					32		7							2.2 60.6							
Build-out Year (2040) with Project Weekday (Evening)		2	0	4,944	40	75	0	0		0.7%					31 4		7							2.1 60.5							
Build-out Year (2040) with Project Saturday (Mid-Day)		2	0	5,128	40	75	0	0	1.8%	0.7%	59.9	3,984 65	1 492	81	32	5 1	7	3	07.4 /6	.3 81.2	2 -1.8	59.3	51.4 5	2.3 60.6	56.3	43.9	42.1 5	0.7 43.1	42.0	43.0 4	6.14

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

Project Name Weekday All Hours rev. (Date)

Northbound

Intersection: Lakeview Ave & Yorba Linda Blvd

Lakeview Ave

	right	through	left
Existing Weekday (Evening)	141	212	197
Existing Saturday (Mid-Day)	155	231	187
Existing plus Project Weekday (Evening)	141	213	197
Existing plus Project Saturday (Mid- Day)	155	230	187
Opening Year (2021) Without Project Weekday (Evening)	272	257	268
Opening Year (2021) Without Project Saturday (Mid-Day)	303	284	267
Opening Year (2021) with Project Weekday (Evening)	272	258	268
Opening Year (2021) with Project Saturday (Mid-Day)	303	283	267
Build-out Year (2040) without Project Weekday (Evening)	304	306	313
Build-out Year (2040) without Project Saturday (Mid-Day)	339	337	310
Build-out Year (2040) with Project Weekday (Evening)	304	307	313
Build-out Year (2040) with Project Saturday (Mid-Day)	339	336	310

W E

Eastbound

-		left	through	right
	Existing Weekday (Evening)	180	1,116	74
-	Existing Saturday (Mid-Day)	189	898	108
Linda	Existing plus Project Weekday (Evening)	180	1,118	75
	Existing plus Project Saturday (Mid- Day)	189	896	107
Yorba	Opening Year (2021) Without Project Weekday (Evening)	309	1,138	83
₹.	Opening Year (2021) Without Project Saturday (Mid-Day)	342	918	121
_	Opening Year (2021) with Project Weekday (Evening)	309	1,140	84
	Opening Year (2021) with Project Saturday (Mid-Day)	342	916	120
	Build-out Year (2040) without Project Weekday (Evening)	350	1,395	101
	Build-out Year (2040) without Project Saturday (Mid-Day)	385	1,125	146
	Build-out Year (2040) with Project Weekday (Evening)	350	1,397	102
	Build-out Year (2040) with Project Saturday (Mid-Day)	385	1.123	145

	right	through	left
Existing Weekday (Evening)	89	1,017	200
Existing Saturday (Mid-Day)	68	894	190
Existing plus Project Weekday (Evening)	89	1,023	200
Existing plus Project Saturday (Mid- Day)	68	902	190
Opening Year (2021) Without Project Weekday (Evening		1,039	208
Opening Year (2021) Without Project Saturday (Mid-Day	147	914	199
Opening Year (2021) with Project Weekday (Evening)	158	1,045	208
Opening Year (2021) with Project Saturday (Mid-Day)	147	922	199
Build-out Year (2040) without Project Weekday (Evening	178	1,273	254
Build-out Year (2040) without Project Saturday (Mid-Day	163	1,120	243
Build-out Year (2040) with Project Weekday (Evening)	178	1,279	254
Build-out Year (2040) with Project Saturday (Mid-Day)	163	1,128	243

If Peak Hour = 6% of ADT, Scaling Factor = 16.667
If Peak Hour = 7% of ADT, Scaling Factor = 14.286
If Peak Hour = 8% of ADT, Scaling Factor = 12.5
If Peak Hour = 9% of ADT, Scaling Factor = 11.11
If Peak Hour = 10% of ADT, Scaling Factor = 10.

ADT

		ADI		
Road	Lakev	iew Ave	Yorba L	inda Blvd
Leg	North of	South of	East of	West of
Cross Street	Yorba L	inda Blvd	Lakev	iew Ave
Existing Weekday (Evening)	8,840.0	9,904.0	23,240.0	21,664.0
Existing Saturday (Mid-Day)	8,312.0	8,328.0	19,016.0	19,256.0
Existing plus Project Weekday (Evening)	8,864.0	9,952.0	23,304.0	21,752.0
Existing plus Project Saturday (Mid- Day)	8,328.0	8,360.0	19,064.0	19,320.0
Opening Year (2021) Without Project Weekday (Evening	12,808.0	10,984.0	24,856.0	24,264.0
Opening Year (2021) Without Project Saturday (Mid-Day	12,840.0	9,504.0	20,736.0	22,184.0
Opening Year (2021) with Project Weekday (Evening)	12,832.0	11,032.0	24,920.0	24,352.0
Opening Year (2021) with Project Saturday (Mid-Day)	12,856.0	9,536.0	20,784.0	22,248.0
Build-out Year (2040) without Project Weekday (Evening) 14,832.0	13,272.0	30,200.0	29,248.0
Build-out Year (2040) without Project Saturday (Mid-Day	14,752.0	11,424.0	25,120.0	26,624.0
Build-out Year (2040) with Project Weekday (Evening)	14,856.0	13,320.0	30,264.0	29,336.0
Build-out Year (2040) with Project Saturday (Mid-Day)	14,768.0	11,456.0	25,168.0	26,688.0

9 NOISE LEVEL CONTOURS

												_ Traffic Volumes						Ref. Ene	rgy Leve	ls Dist	Ld			Le			Ln			
					Design	Dist. from	E	Barrier	Vehid	eMix																				
ROADWAY NAME												Day Eve Nigl	ht MTd	HTd N	∕ГТе НТе	MTn	HTn	A M	T HT	Adj	Α	MT H	Γ Total	A I	MT H	T To	tal A	MT	HT Tota	4
Segment	Land Use	Lanes	Width	Volume	(mph)	ReceptorF	actor (1 o	dB(A)	Trucks	Trucks	CNEL	_																		
Lakeview Ave n/o Yorba Linda Blvd																														
Existing Weekday (Evening)		2	0	8,840	40	75	0	0	1.8%	0.7%		6,869 1,123 849			8 2														45.4 49.9	
Existing Saturday (Mid-Day)	4	2	0	8,312	40	75	0	0	1.8%	0.7%	62.0	6,458 1,056 798			8 2			67.4 7											45.1 49.6	-
Existing plus Project Weekday (Evening)	4	2	0	8,864	40	75	0	0	1.8%	0.7%		-,,		55	8 2														45.4 49.9	
Existing plus Project Saturday (Mid- Day)	4	2	0	8,328	40	75	0	0	1.8%	0.7%		-,,			8 2														45.1 49.6	
Opening Year (2021) Without Project Weekday (Evening)	4	2	0	12,808	40	75	0	0	1.8%	0.7%		9,952 1,627 1,23			12 3														47.0 51.5	
Opening Year (2021) Without Project Saturday (Mid-Day)	4	2	0	12,840	40	75	0	0	1.8%	0.7%		-,,,			12 3														47.0 51.5	
Opening Year (2021) with Project Weekday (Evening)		2	0	12,832	40	75	0	0	1.8%	0.7%		9,970 1,630 1,23			12 3	17													47.0 51.5	
Opening Year (2021) with Project Saturday (Mid-Day)		2	0	12,856	40	75	0	0	1.8%	0.7%		9,989 1,633 1,23			12 3	17													47.0 51.5	
Build-out Year (2040) without Project Weekday (Evening)		2	0	14,832	40	75	0	0	1.8%	0.7%					13 3														47.6 52.	
Build-out Year (2040) without Project Saturday (Mid-Day)		2	0	14,752	40	75	0	0	1.8%	0.7%	64.5	#### 1,874 1,41			13 3														47.6 52.	
Build-out Year (2040) with Project Weekday (Evening)	4	2	0	14,856	40	75	0	0	1.8%	0.7%	64.5				14 3														47.7 52.	
Build-out Year (2040) with Project Saturday (Mid-Day)		2	0	14,768	40	75	0	0	1.8%	0.7%	64.5	#### 1,876 1,41	18 232	92	13 3	20	8	67.4 /	6.3 81.	2 -1.8	8 63.9	56.0 5	6.9 65.2	60.9	48.5 4	6.7 61	1.3 47.7	46.6	47.6 52.	1
Lakeview Ave s/o Yorba Linda Blvd	1																													
Existing Weekday (Evening)	1	2	0	9,904	40	75	0	0	1.8%	0.7%		7,695 1,258 951			9 2														45.9 50.4	
Existing Saturday (Mid-Day)		2	0	8,328	40	75	0	0	1.8%	0.7%	62.0	6,471 1,058 799		52	8 2				6.3 81.										45.1 49.6	
Existing plus Project Weekday (Evening)		2	0	9,952	40	75	0	0	1.8%	0.7%				62	9 2														45.9 50.4	
Existing plus Project Saturday (Mid- Day)	4	2	0	8,360	40	75	0	0	1.8%	0.7%	62.0	6,496 1,062 803		52	8 2		5	67.4 7											45.2 49.6	
Opening Year (2021) Without Project Weekday (Evening)	4	2	0	10,984	40	75	0	0	1.8%	0.7%		8,535 1,395 1,05		69	10 2								5.6 63.9						46.3 50.8	-
Opening Year (2021) Without Project Saturday (Mid-Day)	4	2	0	9,504	40	75	0	0	1.8%	0.7%		7,385 1,207 912		59	9 2			67.4 7											45.7 50.2	
Opening Year (2021) with Project Weekday (Evening)		2	0	11,032	40	75	0	0	1.8%	0.7%		8,572 1,401 1,05			10 2														46.4 50.8	
Opening Year (2021) with Project Saturday (Mid-Day)		2	0	9,536	40	75	0	0	1.8%	0.7%				59	9 2			67.4 7											45.7 50.2	
Build-out Year (2040) without Project Weekday (Evening)		2	0	13,272	40	75	0	0	1.8%	0.7%	64.0	,,			12 3		7												47.2 51.6	
Build-out Year (2040) without Project Saturday (Mid-Day)	4	2	0	11,424	40	75	0	0	1.8%	0.7%		8,876 1,451 1,09			10 2														46.5 51.0	
Build-out Year (2040) with Project Weekday (Evening)	-	2	0	13,320 11.456	40	75	0	0	1.8% 1.8%	0.7%	64.0	#### 1,692 1,27			12 3														47.2 51.3	
Build-out Year (2040) with Project Saturday (Mid-Day)		2	U	11,456	40	75	U	0	1.8%	0.7%	03.4	8,901 1,455 1,10	JU 18U	71	10 2	16	6	67.4 /	0.3 81.	2 -1.0	5 62.8	54.9	0.8 04.1	59.8	47.3 4	10.0	J.Z 40.0	45.5	46.5 51.0	J
Yorba Linda Blvd e/o Lakeview Ave	1																													
Existing Weekday (Evening)		2	0	23,240	40	75	0	0	1.8%	0.7%		#### 2,951 2,23			21 5														49.6 54.	
Existing Saturday (Mid-Day)		2	0	19,016	40	75	0	0	1.8%	0.7%	65.6	#### 2,415 1,82			17 4				6.3 81.										48.7 53.2	
Existing plus Project Weekday (Evening)		2	0	23,304	40	75	0	0	1.8%	0.7%					21 5														49.6 54.	
Existing plus Project Saturday (Mid- Day)	4	2	0	19,064	40	75	0	0	1.8%	0.7%					17 4														48.7 53.2	
Opening Year (2021) Without Project Weekday (Evening)	4	2	0	24,856	40	75	0	0	1.8%	0.7%					23 5														49.9 54.4	
Opening Year (2021) Without Project Saturday (Mid-Day)	4	2	0	20,736	40	75	0	0	1.8%	0.7%	66.0	#### 2,633 1,99			19 4			67.4 7											49.1 53.6	
Opening Year (2021) with Project Weekday (Evening)	4	2	0	24,920	40	75	0	0	1.8%	0.7%		#### 3,165 2,39			23 5														49.9 54.4	
Opening Year (2021) with Project Saturday (Mid-Day)	4	2	0	20,784	40	75	0	0	1.8%	0.7%					19 4														49.1 53.6	
Build-out Year (2040) without Project Weekday (Evening)	4	2	0	30,200	40	75	0	0	1.8%	0.7%		#### 3,835 2,89			27 6														50.7 55.2	
Build-out Year (2040) without Project Saturday (Mid-Day)	1	2	0	25,120	40	75	0	0	1.8%	0.7%	66.8	#### 3,190 2,41			23 5														49.9 54.4	
Build-out Year (2040) with Project Weekday (Evening)		2	0	30,264	40 40	75 75	0	0	1.8%	0.7% 0.7%	67.6	#### 3,844 2,90 #### 3.196 2.41			28 6 23 5														50.7 55.2	
Build-out Year (2040) with Project Saturday (Mid-Day)		2	U	25,168	40	75	U	U	1.8%	0.7%	00.8	##### 3,196 2,41	10 390	157	23 5	34	14	07.4 /	0.3 81.	2 -1.0	5 00.2	38.3	9.2 67.5	03.2	50.8 4	19.0 63	3.0 30.0	48.9	49.9 54.4	+
Yorba Linda Blvd w/o Lakeview Ave	1																													
Existing Weekday (Evening)	1	2	0	21,664	40	75	0	0	1.8%	0.7%		,, -,			20 4	29													49.3 53.8	
Existing Saturday (Mid-Day)	1	2	0	19,256	40	75	0	0	1.8%	0.7%	65.6	#### 2,446 1,84			18 4			67.4 7											48.8 53.3	
Existing plus Project Weekday (Evening)	1	2	0	21,752	40	75	0	0	1.8%	0.7%	66.2				20 4														49.3 53.8	
Existing plus Project Saturday (Mid- Day)		2	0	19,320	40	75	0	0	1.8%	0.7%	65.7	#### 2,454 1,85			18 4			67.4 7											48.8 53.3	
Opening Year (2021) Without Project Weekday (Evening)		2	0	24,264	40	75	0	0	1.8%	0.7%	66.6	#### 3,082 2,32			22 5			67.4 7											49.8 54.3	
Opening Year (2021) Without Project Saturday (Mid-Day)		2	0	22,184	40	75	0	0	1.8%	0.7%	66.3	#### 2,817 2,13			20 4			67.4 7											49.4 53.9	
Opening Year (2021) with Project Weekday (Evening)	1	2	0	24,352	40	75	0	0	1.8%	0.7%		#### 3,093 2,33			22 5			67.4 7											49.8 54.3	
Opening Year (2021) with Project Saturday (Mid-Day)	1	2	0	22,248	40	75	0	0	1.8%	0.7%	66.3	#### 2,825 2,13			20 4														49.4 53.9	
Build-out Year (2040) without Project Weekday (Evening)	1	2	0	29,248	40	75	0	0	1.8%	0.7%		,,			27 6			67.4 7											50.6 55.	
Build-out Year (2040) without Project Saturday (Mid-Day)	1	2	0	26,624	40	75	0	0	1.8%	0.7%	67.0	#### 3,381 2,55			24 5								9.4 67.8						50.2 54.7	
Build-out Year (2040) with Project Weekday (Evening)	1	2	0	29,336	40	75	0	0	1.8%	0.7%		#### 3,726 2,81			27 6														50.6 55.	
Build-out Year (2040) with Project Saturday (Mid-Day)	j	2	0	26,688	40	75	0	0	1.8%	0.7%	67.1	#### 3,389 2,56	2 420	166	24 5	36	15	67.4 7	6.3 81.	2 -1.8	8 66.5	58.6	9.4 67.8	63.5	51.0 4	19.3 63	3.9 50.3	49.1	50.2 54.7	1

(1) Alpha Factor: Coefficient of absorption relating to the effects of the ground surface. An alpha factor of 0 indicates that the site is an acoustically "hard" site such as aspalt. An alpha factor of 0.5 indicates that the site is an acoustically "soft" site such as vegetative ground cover.

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

Project Name Weekday All Hours rev. (Date)

Northbound

Olinda St & Project Dwy

10

Olinda St Southbound

	right	through	left
Existing Weekday (Evening)	0	37	
Existing Saturday (Mid-Day)	0	46	
Existing plus Project Weekday (Evening)	4	37	
Existing plus Project Saturday (Mid- Day)	5	46	
Opening Year (2021) Without Project Weekday (Evening)	0	45	
Opening Year (2021) Without Project Saturday (Mid-Day)	0	55	
Opening Year (2021) with Project Weekday (Evening)	4	45	
Opening Year (2021) with Project Saturday (Mid-Day)	5	55	
Build-out Year (2040) without Project Weekday (Evening)	0	53	
Build-out Year (2040) without Project Saturday (Mid-Day)	0	66	
Build-out Year (2040) with Project Weekday (Evening)	4	53	
Build-out Year (2040) with Project Saturday (Mid-Day)	5	66	

Eastbound

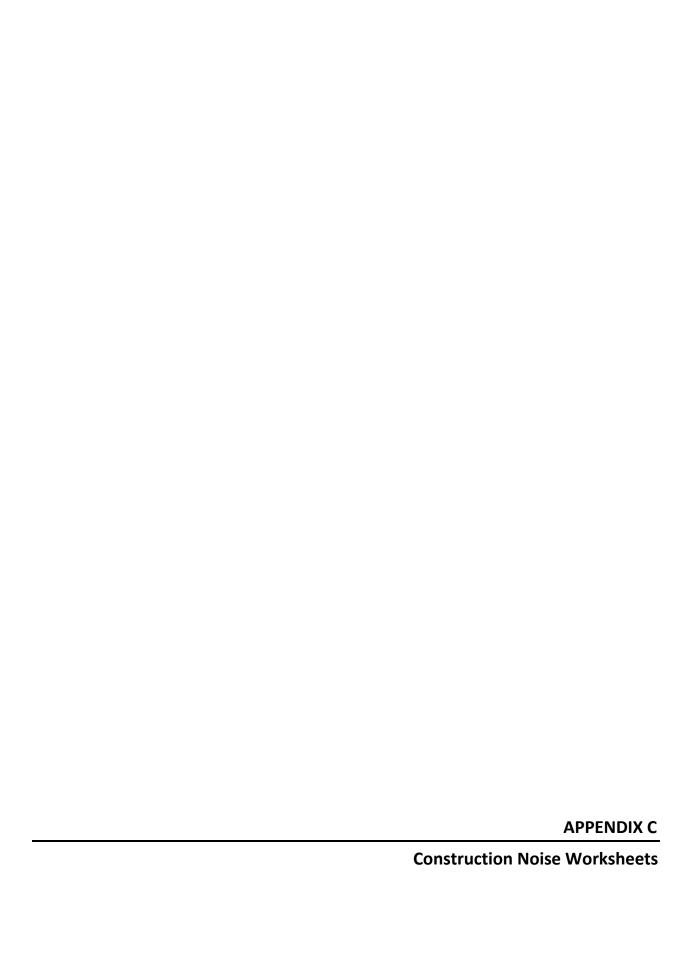
		left	through	right
	Existing Weekday (Evening)	0		0
ş	Existing Saturday (Mid-Day)	0		0
¥	Existing plus Project Weekday (Evening)	- 1		24
8	Existing plus Project Saturday (Mid- Day)	0		0
Project	Opening Year (2021) Without Project Weekday (Evening)	0		0
	Opening Year (2021) Without Project Saturday (Mid-Day)	0		0
	Opening Year (2021) with Project Weekday (Evening)	1		24
	Opening Year (2021) with Project Saturday (Mid-Day)	0		0
	Build-out Year (2040) without Project Weekday (Evening)	0		0
	Build-out Year (2040) without Project Saturday (Mid-Day)	0		0
	Build-out Year (2040) with Project Weekday (Evening)	1		24
	Build-out Year (2040) with Project Saturday (Mid-Day)	0		0

N E S W

	right	through	left
Existing Weekday (Evening)			
Existing Saturday (Mid-Day)			
Existing plus Project Weekday (Evening)			
Existing plus Project Saturday (Mid- Day)			
Opening Year (2021) Without Project Weekday (Evening)		
Opening Year (2021) Without Project Saturday (Mid-Day)		
Opening Year (2021) with Project Weekday (Evening)			
Opening Year (2021) with Project Saturday (Mid-Day)			
Build-out Year (2040) without Project Weekday (Evening			
Build-out Year (2040) without Project Saturday (Mid-Day			
Build-out Year (2040) with Project Weekday (Evening)			
Build-out Year (2040) with Project Saturday (Mid-Day)			

If Peak Hour = 6% of ADT, Scaling Factor = 16.667 If Peak Hour = 7% of ADT, Scaling Factor = 14.286 If Peak Hour = 6% of ADT, Scaling Factor = 12.5 If Peak Hour = 9% of ADT, Scaling Factor = 11.11 If Peak Hour = 10% of ADT, Scaling Factor = 10

ADT Road Project Dwy Leq Cross Street Existing Weekday (Evening) East of West of Olinda St South of Existing Veteratory (Evening)
Existing Saturday (Mid-Day)
Existing plus Project Weekday (Evening)
Existing plus Project Saturday (Mid-Day) 888.0 1,000.0 928.0 888.0 1,432.0 1,128.0 0.0 512.0 280.0 0.0 existing plus Frilogicus adurtary (minz-bay)
Opening Year (2021) Without Project Weekday (Evening
Opening Year (2021) Without Project Saturday (Mid-Day
Opening Year (2021) with Project Saturday (Mid-Day)
Opening Year (2021) with Project Saturday (Mid-Day)
Build-out Year (2040) without Project Weekday (Evening) 0.0 0.0 512.0 280.0 0.0 0.0 1,096.0 1,096.0 1,096.0 1,032.0 1,136.0 1,072.0 1,312.0 1,240.0 1,352.0 1,280.0 1,032.0 1,568.0 1,272.0 1,312.0 1,240.0 0.0 Build-out Year (2040) without Project Saturday (Mid-Day)
Build-out Year (2040) with Project Weekday (Evening)
Build-out Year (2040) with Project Weekday (Evening)
Build-out Year (2040) with Project Saturday (Mid-Day) 0.0



Report dat 10/5/2019

Tractor

Tractor

Case Descr INO: Yorba Linda (Demolition)

---- Receptor #1 ----

84

84

340

340

0

0

Baselines (dBA)

Descriptior Land Use Daytime Evening Night

No

No

Residential Residential 59.1 59.1 59.1

			Equipn	nent				
			Spec		Actual	Recept	or	Estimated
	Impact		Lmax		Lmax	Distan	ce	Shielding
Description	Device	Usage(%)	(dBA)		(dBA)	(feet)		(dBA)
Concrete Saw	No	20)		89	.6	340	0
Dozer	No	40)		81	.7	340	0
Tractor	No	40)	84			340	0

40

40

Calculated (dBA)

Equipment	*Lmax	Leq
Concrete Saw	72.9	65.9
Dozer	65	61
Tractor	67.3	63.4
Tractor	67.3	63.4
Tractor	67.3	63.4
Total	72.9	70.7

^{*}Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Descriptior Land Use	Daytime	Evening	Night
Residential Residential	58.7	58.7	58.7

			Equipm	ent						
			Spec		Actua	l	Receptor	-	Estimate	ed
	Impact		Lmax		Lmax		Distance		Shieldin	g
Description	Device	Usage(%)	(dBA)		(dBA)		(feet)		(dBA)	
Concrete Saw	No	20				89.6	58	30		0
Dozer	No	40				81.7	58	30		0
Tractor	No	40		84			58	30		0
Tractor	No	40		84			58	30		0
Tractor	No	40		84			58	30		0

Equipment	*Lmax	Leq
Concrete Saw	68.3	61.3
Dozer	60.4	56.4
Tractor	62.7	58.7
Tractor	62.7	58.7
Tractor	62.7	58.7
Total	68.3	66

^{*}Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Baselines (dBA)

Descriptior Land Use Daytime Evening Night
Residential Residential 56 56 56

Equipment

			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)

Concrete Saw	No	20		89.6	470	0
Dozer	No	40		81.7	470	0
Tractor	No	40	84		470	0
Tractor	No	40	84		470	0
Tractor	No	40	84		470	0

Equipment	*Lmax	Leq
Concrete Saw	70.1	63.1
Dozer	62.2	58.2
Tractor	64.5	60.6
Tractor	64.5	60.6
Tractor	64.5	60.6
Total	70.1	67.9

^{*}Calculated Lmax is the Loudest value.

Report dat 10/5/2019

Case Descr INO: Yorba Linda (Building Construction)

---- Receptor #1 ----

Baselines (dBA)

Descriptior Land Use Daytime Evening Night

Residential Residential 59.1 59.1 59.1

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		•				
		Spec	Actu	al	Receptor	Estimated
	Impact	Lma	(Lmax	(Distance	Shielding
Description	Device	Usage(%) (dBA) (dBA)	(feet)	(dBA)
Forklift	No	40	85		340	0
Generator	No	50		80.6	340	0
Tractor	No	40	84		340	0
Welder / Torch	No	40		74	340	0
Welder / Torch	No	40		74	340	0
Welder / Torch	No	40		74	340	0

Equipment	*Lmax	Leq
Forklift	68.3	64.4
Generator	64	61
Tractor	67.3	63.4
Welder / Torch	57.3	53.4
Welder / Torch	57.3	53.4
Welder / Torch	57.3	53.4
Total	68.3	68.3

^{*}Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Descriptior Land Use Daytime Evening Night
Residential Residential 58.7 58.7 58.7

Equipment

			Spec		Actual		Receptor	Estimate	d
	Impact		Lmax		Lmax		Distance	Shielding	5
Description	Device	Usage(%)	(dBA)		(dBA)		(feet)	(dBA)	
Forklift	No	40		85			580		0
Generator	No	50				80.6	580		0
Tractor	No	40		84			580		0
Welder / Torch	No	40				74	580		0
Welder / Torch	No	40				74	580		0
Welder / Torch	No	40				74	580	ļ	0

Calculated (dBA)

Equipment	*Lmax	Leq
Forklift	63.7	59.7
Generator	59.3	56.3
Tractor	62.7	58.7
Welder / Torch	52.7	48.7
Welder / Torch	52.7	48.7
Welder / Torch	52.7	48.7
Total	63.7	63.7

^{*}Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Baselines (dBA)

Descriptior Land Use Daytime Evening Night
Residential Residential 56 56 56

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			Spec	Actu	al	Receptor	Estimated
		Impact	Lmax	Lmax	<	Distance	Shielding
	Description	Device	Usage(%) (dBA)	(dBA	.)	(feet)	(dBA)
F	orklift	No	40	85		470	0
e	Generator	No	50		80.6	470	0
Т	ractor	No	40	84		470	0
٧	Velder / Torch	No	40		74	470	0
٧	Velder / Torch	No	40		74	470	0
٧	Velder / Torch	No	40		74	470	0

Equipment	*Lmax	Leq
Forklift	65.5	61.6
Generator	61.2	58.2
Tractor	64.5	60.6
Welder / Torch	54.5	50.6
Welder / Torch	54.5	50.6
Welder / Torch	54.5	50.6
Total	65.5	65.5

^{*}Calculated Lmax is the Loudest value.

Report date 10/5/2019

Case Descr INO: Yorba Linda (Paving)

---- Receptor #1 ----

Baselines (dBA)

Descriptior Land Use Daytime Evening Night

Residential Residential 59.1 59.1 59.1

			Equipm	ent			
			Spec	Actual		Receptor	Estimated
	Impact		Lmax	Lmax		Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)		(feet)	(dBA)
Concrete Mixer Truck	No	40			78.8	340	0
Paver	No	50			77.2	340	0
Paver	No	50			77.2	340	0
Roller	No	20			80	340	0
Tractor	No	40		84		340	0

Calculated (dBA)

Equipment	*Lmax	Leq
Concrete Mixer Truck	62.1	58.2
Paver	60.6	57.6
Paver	60.6	57.6
Roller	63.3	56.4
Tractor	67.3	63.4
Total	67.3	66.4

^{*}Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Descriptior Land Use Daytime Evening Night
Residential Residential 58.7 58.7 58.7

Equipment

			-90.6				
			Spec	Actual	Recepto	r Estimat	ed
	Impact		Lmax	Lmax	Distance	Shieldin	g
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)	
Concrete Mixer Truck	No	40)	78.	8 5	80	0
Paver	No	50)	77.	2 5	80	0

Paver	No	50		77.2	580	0
Roller	No	20		80	580	0
Tractor	No	40	84		580	0

Equipment	*Lmax	Leq
Concrete Mixer Truck	57.5	53.5
Paver	55.9	52.9
Paver	55.9	52.9
Roller	58.7	51.7
Tractor	62.7	58.7
Total	62.7	61.8

^{*}Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Baselines (dBA)

Description Land Use Daytime Evening Night
Residential Residential 56 56 56

			Equipm	nent			
			Spec	Actu	ıal	Receptor	Estimated
	Impact		Lmax	Lma	Х	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA	۸)	(feet)	(dBA)
Concrete Mixer Truck	No	40			78.8	470	0
Paver	No	50			77.2	470	0
Paver	No	50			77.2	470	0
Roller	No	20			80	470	0
Tractor	No	40		84		470	0

Equipment	*Lmax	Leq
Concrete Mixer Truck	59.3	55.4
Paver	57.8	54.7
Paver	57.8	54.7
Roller	60.5	53.5
Tractor	64.5	60.6
Total	64.5	63.6

^{*}Calculated Lmax is the Loudest value.

Receptor Estimated
Distance Shielding

340

(dBA)

0

(feet)

77.7

Report dat 10/5/2019

Compressor (air)

Case Descr INO: Yorba Linda (Architectural Coating)

	Baselines	(dBA)	Re	ceptor #1
Descriptior Land Use	Daytime	Evening	Night	
Residential Residential	59.1	L 59.1		59.1
			Equipr	ment
			Spec	Actual
	Impact		Lmax	Lmax
Description	Device	Usage(%)	(dBA)	(dBA)

Calculated (dBA)

Equipment *Lmax Leq
Compressor (air) 61 57
Total 61 57

No

*Calculated Lmax is the Loudest value.

40

---- Receptor #2 ----

Baselines (dBA)

Descriptior Land Use Daytime Evening Night
Residential Residential 58.7 58.7 58.7

Equipment

			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Compressor (air)	No	40		77.7	580	0

Equipment *Lmax Leq

Compressor (air) 56.4 52.4 Total 56.4 52.4

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Baselines (dBA)

Descriptior Land Use Daytime Evening Night

Residential Residential 56 56 56

Equipment

Receptor Estimated Spec Actual Impact Distance Shielding Lmax Lmax Description Device Usage(%) (dBA) (feet) (dBA) (dBA) Compressor (air) 77.7 470 No 40 0

Calculated (dBA)

Equipment *Lmax Leq

Compressor (air) 58.2 54.2 Total 58.2 54.2

*Calculated Lmax is the Loudest value.



Construction Vibration Model (340 feet)

Equipment	Pieces of Equipment	PPV at 25 feet (in/sec)	Distance from Equipment	PPV at adjusted distance	RMS velocity amplitude in in/sec at adjusted distance ^a	RMS Vibration level in VdB at adjusted distance
Caisson drilling	1	0.089	340	0.002	0.000	53
Jackhammer	1	0.035	340	0.001	0.000	45
Large bulldozer	1	0.089	340	0.002	0.000	53
Loaded trucks	1	0.076	340	0.002	0.000	52
Pile Drive (impact)	1	0.644	340	0.013	0.003	70
Vibratory Roller	1	0.210	340	0.004	0.001	60
Small bulldozer	1	0.003	340	0.000	0.000	23

^{*} Suggested Vibration Thresholds per the Federal Transit Administration, United States Department of Transportation, Transit Noise and Vibration Impact Assessment (FTA-VA-90-1003-06), May 2006, pg. 12-12.

⁻Fragile Buildings- 0.20 in/sec

Construction Vibration Model (580 feet)

Equipment	Pieces of Equipment	PPV at 25 feet (in/sec)	Distance from Equipment	PPV at adjusted distance	RMS velocity amplitude in in/sec at adjusted distance ^a	RMS Vibration level in VdB at adjusted distance
Caisson drilling	1	0.089	580	0.001	0.000	46
Jackhammer	1	0.035	580	0.000	0.000	38
Large bulldozer	1	0.089	580	0.001	0.000	46
Loaded trucks	1	0.076	580	0.001	0.000	45
Pile Drive (impact)	1	0.644	580	0.006	0.001	63
Vibratory Roller	1	0.210	580	0.002	0.000	53
Small bulldozer	1	0.003	580	0.000	0.000	17

^{*} Suggested Vibration Thresholds per the Federal Transit Administration, United States Department of Transportation, Transit Noise and Vibration Impact Assessment (FTA-VA-90-1003-06), May 2006, pg. 12-12.

⁻Fragile Buildings- 0.20 in/sec

INO: Yorba Linda
Construction Vibration Model
(470 feet)

Rev: 11/12/2012

Equipment	Pieces of Equipment	PPV at 25 feet (in/sec)	Distance from Equipment	PPV at adjusted distance	RMS velocity amplitude in in/sec at adjusted distance ^a	RMS Vibration level in VdB at adjusted distance
Caisson drilling	1	0.089	470	0.001	0.000	49
Jackhammer	1	0.035	470	0.000	0.000	41
Large bulldozer	1	0.089	470	0.001	0.000	49
Loaded trucks	1	0.076	470	0.001	0.000	47
Pile Drive (impact)	1	0.644	470	0.008	0.002	66
Vibratory Roller	1	0.210	470	0.003	0.001	56
Small bulldozer	1	0.003	470	0.000	0.000	19

^{*} Suggested Vibration Thresholds per the Federal Transit Administration, United States Department of Transportation, Transit Noise and Vibration Impact Assessment (FTA-VA-90-1003-06), May 2006, pg. 12-12.

⁻Fragile Buildings- 0.20 in/sec



Receiver	FI	/dB(A)	Ldn/dB(A) Leq,d/dB(A Leq,n/dB(A)		q,n/dB(A)	Source	Ldn dB(A) Leq,d dB(# Leq,n dB(# 0-1 o'clock 1-2 o'clock 2-3 o'clock 3-4 o'clock 4-5 o'clock 5-6 o'clock							
Residential Along Lemon Drive (East) Site 4			25.9	22	18.9	Drive Through	9.6	5.7	2.6	6.7	3.7			
nesidential vilong centon brive (2050) Site 1	G		25.5		10.5	Outdoor Dining	17.2	13.3	10.2	14.3	11.2			
						Outdoor Dining	17.1	13.3	10.1	14.2	11.2			
						Outdoor Dining	17.2	13.3	10.2	14.3	11.3			
						Outdoor Dining	17.3	13.4	10.3	14.4	11.4			
						Outdoor Dining	17.3	13.4	10.3	14.4	11.4			
						Outdoor Dining	17.4	13.5	10.4	14.5	11.5			
						Outdoor Dining	7.8	3.9	0.8	4.9	1.9			
						Outdoor Dining	7.0	3.2	0.0	4.1	1.1			
						Outdoor Dining	7	3.1	0	4.1	1.1			
						Outdoor Dining	5.8	2	-1.2	2.9	-0.1			
						Outdoor Dining	6.1	2.2	-0.9	3.2	0.2			
						Parking	7.5	3.6	0.5	4.6	1.6			
						Speakerbox	4.7	0.8	-2.3	1.8	-1.2			
						Trash Compactor	14.9	11	7.9	12	9			
Residential Along Plumosa Drive (Site 5)	G		33.5	29.6	26.5	Drive Through	18.2	14.3	11.2	15.3	12.3			
						Outdoor Dining	23.1	19.2	16	20.1	17.1			
						Outdoor Dining	23	19.1	16	20.1	17			
						Outdoor Dining	22.9	19	15.9	20	17			
						Outdoor Dining	23	19.1	16	20.1	17			
						Outdoor Dining	22.8	18.9	15.8	19.9	16.9			
						Outdoor Dining	22.8	18.9	15.8	19.9	16.9			
						Outdoor Dining	22.8	18.9	15.8	19.9	16.9			
						Outdoor Dining	22.7	18.8	15.7	19.8	16.8			
						Outdoor Dining	22.6	18.7	15.6	19.7	16.7			
						Outdoor Dining	22.6	18.7	15.6	19.7	16.7			
						Outdoor Dining	22.5	18.6	15.5	19.6	16.6			
						Parking	17.5	13.6	10.5	14.6	11.6			
						Speakerbox	-7.5	-11.4	-14.5	-10.4	-13.4			
						Trash Compactor	14.3	10.4	7.3	11.4	8.4			
Residential Along Lemon Drive (West) Site 6	G		22.2	18.3	15.2	Drive Through	8.6	4.7	1.6	5.7	2.7			
						Outdoor Dining	11.1	7.3	4.1	8.2	5.2			
						Outdoor Dining	10.5	6.6	3.5	7.6	4.6			
						Outdoor Dining	11.2	7.3	4.2	8.3	5.3			
						Outdoor Dining	11.5	7.6	4.5	8.6	5.6			
						Outdoor Dining	11.3	7.4	4.3	8.4	5.4			
						Outdoor Dining	11.6	7.7	4.6	8.7	5.7			
						Outdoor Dining	10.7	6.8	3.7	7.8	4.8			
						Outdoor Dining	11.4	7.5	4.4	8.5	5.4			
						Outdoor Dining	10.6	6.7	3.5	7.6	4.6			
						Outdoor Dining	11.6	7.7	4.5	8.7	5.6			
						Outdoor Dining	11.3	7.4	4.2	8.3	5.3			
						Parking	6.6	2.7	-0.4	3.7	0.7			
						Speakerbox	6.1	2.2	-1	3.1	0.1			
						Trash Compactor	7.2	3.3	0.1	4.2	1.2			

6-7 o'clock 7-8 o'clock 8-9 o'clock 9-10 o'cloc 1	∩-11 o'clc 11	I-12 o'clo 1	2-13 o'clo 1	3-14 o'clo 1	1-15 o'clo 15	-16 o'clo 16	-17 o'clo 17	'-18 o'clo 18	-19 o'clo 19	1-20 o'clo 20	L21 o'clo 21	-22 o'clo 22	2-23 o'clo 23	2-24 o'clock di
Residential Along Lemon Drive (East) Site 4	10-11 0 010 11	1-12 0 00 12	2-13 0 010 1.	3-14 0 00 1	+-13 0 00 13)-10 0 CIO 10	-17 0 00 17	-10 0 00 10	-15 0 00 13	-20 0 010 20	-2100021	-22 0 010 22	-23 0 00 2	3-24 U CIUCK UI
	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	12	12	12	12	12	12	12	12	12	12	12	12	12	12
tesidential Along Plumosa Drive (Site 5)														
	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1
	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1
	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1
	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7
	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7
	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
	-10.4	-10.4	-10.4	-10.4	-10.4	-10.4	-10.4	-10.4	-10.4	-10.4	-10.4	-10.4	-10.4	-10.4
	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
esidential Along Lemon Drive (West) Site 6														
	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2

