

April 12, 2021

Job # S210110

Tom Paull 4033 and 4039 Lamont Street San Diego, California 92109

Subject: Response to Noise Comments for the NEST (City of San Diego Project Number 676545)

This letter is in response to City of San Diego staff review comments for the NEST project. Comments are found in the City of San Diego's second review, dated April 1, 2021, and this letter references the location of each comment response or requested changes in the revised report.

Italics are added to indicate City of San Diego staff comments.

City of San Diego Comments:

44-1: Include the definition and description of Sensitive Receptors as identified in the General Plan and CEQA Thresholds.

RESPONSE: A definition of "sensitive receptors" was incorporated into Section 2.0 of the revised report.

44-2: Include a discussion on ground borne vibrations.

RESPONSE: A detailed construction vibration calculation was incorporated into Section 5.4 of the revised report. According to construction vibration calculations, on-site construction vibration is not anticipated to cause damage to off-site buildings and will only approach the threshold of "strongly perceptible" vibration for a short period of time when work is performed on the exterior boundaries of the proposed building. Therefore, it is the opinion of the undersigned that temporary construction vibration impacts would not be "excessive" and therefore are less than significant.

If you have any questions or require additional information, please feel free to contact Mo Ouwenga at 760-738-5570 or mouwenga@eilarassociates.com.

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Acoustical Analysis Report for the NEST

City of San Diego Project No. 676545

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1.0 Executive Summary

The proposed project, the NEST, consists of the demolition of existing structures and construction of a mixeduse building to contain 18 residential units and two commercial units. The project site is located at 4033 and 4039 Lamont Street in the City of San Diego, California.

The current and future noise environment primarily consists of traffic noise from Lamont Street. Future traffic noise levels at residential building facades will range from 32 CNEL at the southern breezeway of the second floor to 60 CNEL at the west facade of the second floor. The City of San Diego Noise Element to the General Plan Table NE-3 requires that residential outdoor use areas be protected from noise levels greater than 65 CNEL. Calculations show that exterior noise levels at the outdoor use areas will meet the exterior noise limit of 65 CNEL as designed. Therefore, no project design features are deemed necessary to attenuate exterior noise impacts to outdoor use areas at the site.

The City of San Diego General Plan Table NE-3 requires interior noise levels of 45 CNEL or less in residential units and 50 CNEL or less in commercial units. Calculations show that future traffic noise impacts to building facades will not exceed 60 CNEL; therefore, interior noise levels in residential and commercial spaces will comply with the 45 CNEL and 50 CNEL requirements, respectively, with typical building construction. No special design features, such as mechanical ventilation or STC-rated glazing, are required for meeting interior noise limits for residential or commercial spaces.

Noise from the anticipated HVAC equipment on site was calculated to determine impacts at sensitive receptors. Calculations show that noise levels from the mechanical equipment will be in compliance with the City of San Diego noise regulations found within the Municipal Code Section 59.5.0401 at all surrounding sensitive receptors. No project design features are deemed necessary to control project-generated noise impacts from mechanical equipment. Additionally, it was determined that no significant noise impacts would result from project-generated traffic.

Calculations show that noise from temporary construction activities will not exceed the applicable construction noise limits of the City of San Diego Municipal Code Section 59.5.0404 at surrounding sensitive receptors. Construction is prohibited between the hours of 7 p.m. and 7 a.m. and on Sundays or legal holidays. Standard construction noise control methods, including adhering to permissible hours of operation, maintaining equipment in proper operating condition, and placing staging areas at furthest locations from noise sensitive receptors. As construction vibration is not anticipated to cause damage to off-site buildings and will only approach the threshold of "slightly perceptible" vibration for a short period of time when work is performed on the eastern portion of the building, it is the opinion of the undersigned that temporary construction vibration impacts would not be "excessive" and therefore are less than significant.

As detailed herein, noise impacts to and from the project site will comply with all applicable City of San Diego noise regulations with the project is currently designed.

2.0 Introduction

This acoustical analysis report is submitted to satisfy the acoustical requirements of the City of San Diego Noise Element to the General Plan and the City of San Diego Municipal Code. Its purpose is to assess noise impacts from roadway traffic to identify project features or requirements necessary to achieve interior noise levels of 45 CNEL or less in habitable residential spaces and 50 CNEL or less in commercial spaces, in compliance with the City of San Diego Noise Element to the General Plan. In addition, this report assesses noise impacts from

permanent and temporary project-related noise sources, such as mechanical equipment operation, projectgenerated traffic, and construction noise. This analysis will determine if project design features are necessary and feasible to reduce these impacts to comply with the applicable noise regulations of the City of San Diego Noise Element to the General Plan and Municipal Code.

Sensitive receptors are defined to include any noise-sensitive receiver. According to the City of San Diego Noise Element to the General Plan and CEQA Significant Determination Thresholds, sensitive receptors include the following land uses: residential, schools, libraries, hospitals, nursing facilities, day care, hotels, motels, parks, convalescent homes, offices, churches, business, professional uses, commercial, retail, industrial, and outdoor spectator sports uses. Sensitive receptors surrounding the project site include single-family and multi-family residential properties.

All noise level or sound level values presented herein are expressed in terms of decibels, with A-weighting to approximate the hearing sensitivity of humans. Time-averaged noise levels are expressed by the symbol L_{EQ} for a specified duration. Unless a different time period is specified, L_{EQ} is implied to mean a period of one hour.

The Community Noise Equivalent Level (CNEL) is a calculated 24-hour weighted average, where sound levels during evening hours of 7 p.m. to 10 p.m. have an added 5 dB weighting, and sound levels during nighttime hours of 10 p.m. to 7 a.m. have an added 10 dB weighting. This is similar to the Day-Night sound level, L_{DN}, which is a 24-hour average with an added 10 dB weighting on the same nighttime hours but no added weighting on the evening hours. Sound levels expressed in CNEL are always based on A-weighted decibels. These metrics are used to express noise levels for both measurement and municipal regulations, for land use guidelines, and for enforcement of noise ordinances.

Sound pressure is the actual noise experienced by a human or registered by a sound level instrument. When sound pressure is used to describe a noise source, the distance from the noise source must be specified in order to provide complete information. Sound power, on the other hand, is a specialized analytical metric used to provide information without the distance requirement, but it may be used to calculate the sound pressure at any desired distance.

Some of the data may also be presented as octave-band-filtered and/or 1/3-octave-band-filtered data, which are a series of sound spectra centered about each stated frequency, with half of the bandwidth above and half of the bandwidth below each stated frequency. This data is typically used for machinery noise analysis and barrier calculations.

2.1 **Project Description**

The proposed project, the NEST, consists of the demolition of existing structures and construction of a mixeduse building to contain 18 residential units and two commercial units. Outdoor use areas for the project are provided as private patios or balconies at some units and a common outdoor use area on the second floor. Additional information is provided in the project plans, included as Appendix A.

2.2 **Project Location**

The project site is located at 4033 and 4039 Lamont Street in the City of San Diego, California. The Assessor's Parcel Number (APN) for the property is 424-431-27-00. The project location is shown on the Vicinity Map, Figure 1, following this report. An Assessor's Parcel Map, Satellite Aerial Photograph, and Topographic Map of this area are also provided as Figures 2 through 4, respectively.

2.3 Applicable Noise Regulations

This acoustical analysis report is submitted to satisfy the acoustical requirements of the City of San Diego Noise Element to the General Plan and the City of San Diego Municipal Code.

The City of San Diego Noise Element to the General Plan Table NE-3 states that exterior noise levels at outdoor use areas of residential properties should not exceed 65 CNEL. Additionally, the Noise Element requires that interior noise levels not exceed 45 CNEL in residential space and 50 CNEL in commercial space. The State of California also requires that interior noise levels not exceed 50 dBA peak hour in commercial space. As the 50 CNEL limit is stricter than the 50 dBA peak hour limit, the 50 CNEL limit was applied.

The City of San Diego Municipal Code, Section 59.5.0401 specifies noise limits based on the land use of the properties in question. As the City of San Diego Municipal Code states that noise limits apply "on the boundaries of the property," noise levels were evaluated at the nearest sensitive receptor locations beyond the project site (at immediately adjacent property lines or beyond the alley). The most restrictive nighttime noise limits at surrounding land uses are 40 dBA for single-family residential, 45 dBA for low-density multi-family residential (density of less than one unit per 2,000 square feet of lot area), and 50 dBA for high-density multifamily residential (density of over one unit per 2,000 square feet of lot area); mixed use buildings, such as the proposed project, fall into the high-density multi-family residential category. Noise level limits at receiver locations on the boundary of two different land uses shall be the arithmetic mean of the two respective noise level limits. The project site is proposed to be high-density multi-family residential/mixed use. The properties to the east (4020, 4028, 4032, and 4056 Honeycutt Street) have single-family residential uses. The property to the east (4036-4038 Honeycutt Street) has low-density multi-family residential use; the properties to the north, east, and south (4055 Lamont Street, 4046 Honeycutt Street, and 4021 Lamont Street) have high-density multifamily residential use. Based on the averaging of noise limits at unlike properties, the most restrictive applicable noise limit is 45 dBA at single-family residential properties and 47.5 dBA at low-density multi-family residential properties.

In addition, Section 59.5.0404 of the City of San Diego Municipal Code states that construction activity is prohibited between the hours of 7 p.m. and 7 a.m. and on Sundays or legal holidays. During permissible hours of operation, noise levels from construction activity must be limited to a twelve-hour average of no greater than 75 dBA at any property line zoned for residential use.

Please refer to Appendix B for pertinent sections of the San Diego Noise Element to the General Plan and City of San Diego Municipal Code.

3.0 Environmental Setting

3.1 Existing Noise Environment

3.1.1 Roadway Traffic Sources

Current exterior noise at the site consists primarily of traffic noise from Lamont Street. No other noise source is considered significant.

The current traffic volume for Lamont Street was given based on information from the San Diego Association of Governments (SANDAG) Transportation Data (see reference), which provides 24-hour traffic counts for segments in the vicinity of the project site.

Lamont Street is a two-lane, two-way Local Collector running generally north-south along the west boundary of the project site. The posted speed limit is 30 mph. SANDAG year 2015 traffic counts show a volume of approximately 6,100 Average Daily Trips (ADT) in the vicinity of the project site.

No current or future truck percentages were available for Lamont Street; however, based on neighboring and surrounding land use, roadway classification, professional experience, and on-site observations, a truck percentage mix of 0.5% medium and 0.5% heavy trucks was used.

Traffic volumes for the roadway sections near the project site are shown in Table 1. For further roadway details and projected future ADT traffic volumes, please refer to Appendix C: CadnaA Analysis Data and Results.

Table 1. Overall Roadway Traffic Information						
	Speed	Vehicle	Mix (%)	Current ADT	Future ADT (2050)	
Roadway Name	Limit (mph)	Medium Trucks	Heavy Trucks	(2015)		
Lamont Street	30	0.5	0.5	6,100	8,100	

Without the consideration of shielding provided by proposed on-site structures, the current traffic noise contours calculated at ground level show that traffic noise impacts to the project site are between 50 and 60 CNEL. Current traffic noise contours are shown in Figure 5.

3.1.2 Measured Noise Level

An on-site inspection and a traffic noise measurement were made on the afternoon of Tuesday, February 2, 2021. The weather conditions were as follows: mostly cloudy skies, high humidity, and temperature in the mid 60s with winds at 8 to10 mph. A traffic noise measurement was made along the northwest boundary of the project site, approximately 30 feet east of the Lamont Street centerline and approximately 80 feet north of the Chico Street centerline. The primary source of noise during the measurement was traffic noise. The microphone was placed at approximately five feet above the existing grade. The traffic volumes for Lamont Street were recorded for automobiles, medium-size trucks, and large trucks during the measurement period. After a 15-minute sound level measurement (paused for non-traffic sources such as aircraft), no changes in the L_{EQ} were observable and results were recorded. The measured noise level and related weather conditions are shown in Table 2, and the noise measurement location is shown on Figure 3.

Table 2. On-Site Noise Measurement Conditions and Results					
Date Tuesday, February 2, 2021					
Time 1:11 p.m. – 1:29 p.m.					
Conditions	Mostly cloudy skies, wind at 8-10 mph, temperature in the mid 60s with high humidity				
Measured Traffic Noise Level	57.1 dBA L _{EQ}				

Additionally, a long-term noise measurement was made beginning the afternoon of Monday, February 1, 2021 and running through the afternoon of Tuesday, February 2, 2021. The purpose of this measurements was to obtain long-term ambient noise information. The performed noise measurement is expected to be representative of the typical noise exposure at the site and encompasses the primary source of noise, which is

traffic noise. The long-term noise monitor was placed at a height of five feet above ground level, at approximately 47 feet east of the Lamont Street centerline and approximately 50 feet north of the Chico Street centerline. Noise data obtained on site is shown in Table 3, and the measurement location is shown graphically in Figure 3.

Table 3. Long-Term Measured Noise Levels on Site					
Date	Time	Hourly Average Noise Level (dBA L _{EQ})			
	12 p.m. – 1 p.m.	54.7			
	1 p.m. – 2 p.m.	53.3			
	2 p.m. – 3 p.m.	54.7			
	3 p.m. – 4 p.m.	53.9			
	4 p.m. – 5 p.m.	52.0			
E 1 4 0004	5 p.m. – 6 p.m.	52.9			
February 1, 2021	6 p.m. – 7 p.m.	53.7			
	7 p.m. – 8 p.m.	52.1			
	8 p.m. – 9 p.m.	46.6			
	9 p.m. – 10 p.m.	45.1			
	10 p.m. – 11 p.m.	43.7			
	11 p.m. – 12 a.m.	46.9			
	12 a.m. – 1 a.m.	37.4			
	1 a.m. – 2 a.m.	38.9			
	2 a.m. – 3 a.m.	37.0			
	3 a.m. – 4 a.m.	37.5			
	4 a.m. – 5 a.m.	41.8			
	5 a.m. – 6 a.m.	44.0			
February 2, 2021	6 a.m. – 7 a.m.	49.0			
	7 a.m. – 8 a.m.	52.3			
	8 a.m. – 9 a.m.	54.0			
	9 a.m. – 10 a.m.	53.9			
	10 a.m. – 11 a.m.	57.6			
	11 a.m. – 12 p.m.	55.0			

Measured noise levels were observed to range from a minimum of 37.0 dBA between the hours of 2 a.m. and 3 a.m. on February 2, 2021 to a maximum of 57.6 dBA between 10 a.m. and 11 a.m. on February 2, 2021.

3.1.3 Calculated Noise Level

Noise levels were calculated for the site using the methodology described in Section 4.1.2. The calculated noise levels (L_{EQ}) were compared with the measured traffic noise level to determine if adjustments or corrections (calibration) should be applied to the traffic noise prediction model. Adjustments are intended to account for site-specific differences, such as reflection and absorption, which may be greater or lesser than accounted for in the model.

The measured noise level of 57.1 dBA L_{EQ} at approximately 30 feet east of the Lamont Street centerline and approximately 80 feet north of the Chico Street centerline was compared to the calculated (modeled) noise level of 57.6 dBA L_{EQ} for the same anticipated traffic flow. According to the Federal Highway Administration's Highway Traffic Noise: Analysis and Abatement Guide (see reference), a traffic noise model is considered validated if the measured and calculated noise impacts differ by three decibels or less. No adjustment was deemed necessary to model future noise levels for this location as the difference between the measured and calculated levels was found to be less than three decibels. The traffic noise model is assumed to be representative of actual traffic noise that is experienced on site. This information is shown in Table 4. Please refer to Appendix C for additional information.

Table 4. Calculated versus Measured Traffic Noise Data							
Location Calculated Measured Difference Correction							
30' east of Lamont Street C.L. and 80' north of Chico Street C.L.	57.6 dBA L_{EQ}	57.1 dBA L _{EQ}	0.5 dB	None Applied			

3.2 Future Noise Environment

The future noise environment in the vicinity of the project site will be primarily a result of the same ambient noise sources, as well as the noise generated by the proposed uses at the project site. Project-generated noise sources include permanent HVAC equipment, project-generated traffic, and temporary construction equipment.

3.2.1 Roadway Traffic

The future (year 2050) traffic volumes for surrounding roadways were obtained from the SANDAG Series 14 Transportation Forecast Information Center (TFIC). According to SANDAG, by the year 2050, the traffic volume of Lamont Street is estimated to increase to 8,100 ADT.

The same truck percentages from the existing traffic volumes were used for future traffic volume modeling. For further roadway details and projected future ADT traffic volumes, please refer to Appendix C: CadnaA Analysis Data and Results.

Without the consideration of shielding provided by proposed on-site structures, the future traffic noise contours calculated at ground level show traffic noise impacts to the entire project site and will be between 51 and 61 CNEL. Future traffic noise contours are shown in Figure 6.

3.2.2 HVAC Equipment

Though detailed project mechanical plans are not currently available, a rooftop heat pump is expected to service each unit; each commercial space and the lobby were also assumed to have one heat pump each. Each rooftop HVAC unit is expected to be equivalent to the 2.5-ton Carrier model 25HBC5 unit. Noise level data for this unit was provided by the manufacturer in the form of unweighted octave band sound power levels and an A-weighted overall sound power level. As the octave band levels did not add up to the overall A-weighted sound power level, they were adjusted to add up to the A-weighted overall level. The adjusted sound power level data for the proposed rooftop HVAC units is shown in Table 5. All rooftop HVAC units were modeled as being operational at all times for a worst-case analysis. Please refer to Appendix D for additional information.

Table 5. Sound Power Levels of Carrier 25HBC5								
Unit	Soun	d Power I	Levels (dE	B) at Octav	ve Band F	requency	(Hz)	Overall Sound
Unit	125	250	500	1,000	2,000	4,000	8,000	Power Level (dBA)
Carrier 25HBC5030	52.9	60.4	63.4	67.4	64.4	61.9	55.4	71.0

Equipment noise levels shown above were incorporated into the permanent project-generated noise impact analysis as shown in Section 5.3.1.

3.2.3 Project-Generated Traffic

Project-generated traffic volumes were roughly estimated to determine whether the addition of vehicle trips associated with the project would have a direct noise impact on traffic noise levels in the vicinity of the project. An analysis of the potential change in traffic noise levels to the surrounding area was evaluated based on the *(Not So) Brief Guide of Vehicular Traffic Generation Rates for the San Diego Region* (see reference). The project's impacts have been evaluated to determine whether a direct noise impact will result. A significant impact is generally considered to be a doubling of sound energy, which is an increase of three decibels over existing conditions.

Using the methodology of the aforementioned guide and considering the residential and commercial operations of the site, the proposed project is anticipated to generate approximately 118 ADT on surrounding roadways. This estimated volume has been incorporated into the analysis detailed in Section 5.3.2.

3.2.4 Temporary Construction Equipment

According to the project proponent and professional experience, on-site construction activities are expected to consist of foundation excavation and building construction. There will be a single phase of construction. Please refer to Table 6 for anticipated on-site construction equipment during each stage of activity with noise levels and duty cycles for each piece of equipment. Construction equipment noise levels were provided by the UK Department for Environment, Food and Rural Affairs (DEFRA), and duty cycle information was taken from the Federal Highway Administration (FHWA) (see references). Although FHWA offers noise levels of construction equipment, professional experience and observations of construction activity by Eilar Associates, Inc. suggest that the noise levels given by DEFRA are more representative of equipment noise levels that would be generated at smaller scale construction sites such as the proposed project.

Table 6. Anticipated Construction Activity and Equipment Noise Levels								
Equipment	Duty Cycle (%) ¹	Noise Level at 50 feet (dBA) ²	Activity Stage					
Air Compressor	40	62	Building Construction					
Backhoe	40	65	Foundation Excavation					
Crane	16	67	Building Construction					
Dump Truck	40	77	Foundation Excavation					
Excavator	40	66	Foundation Excavation					
Forklift	40	67	Building Construction					

¹Duty cycle information was provided by the Federal Highway Administration.

²Noise level information was provided by UK Department for Environment, Food and Rural Affairs.

Equipment noise levels shown above were incorporated into the temporary construction noise impact analysis as shown in Section 5.4.

4.0 Methodology and Equipment

4.1 Methodology

4.1.1 Traffic Noise Measurement

Typically, a "one-hour" equivalent sound level measurement (L_{EQ} , A-Weighted) is recorded for at least one noise-sensitive location on the site. During the on-site noise measurement, start and end times are recorded and vehicle counts are made for cars, medium trucks (double-tires/two axles), and heavy trucks (three or more axles) for the corresponding road segment(s). Supplemental sound measurements of one hour or less in duration are often made to further describe the noise environment of the site.

For measurements of less than one hour in duration, the measurement time is long enough for a representative traffic volume to occur and the noise level (L_{EQ}) to stabilize. The vehicle counts are then converted to one-hour equivalent volumes by applying an appropriate factor. Other field data gathered include measuring or estimating distances, angles-of-view, slopes, elevations, roadway grades, and vehicle speeds. This information is subsequently verified using available maps and records.

4.1.2 Roadway Noise Calculation

The Traffic Noise Model (TNM) calculation protocol in CadnaA Version 2020 (based on the methodology used in TNM Version 2.5, released in February 2004 by the U.S. Department of Transportation) was used for all traffic modeling in the preparation of this report. Using the TNM protocol, the CNEL is calculated as 9.2 percent of the ADT for surrounding roadways, based on the studies made by Wyle Laboratories (see reference). Future CNEL is calculated for desired receptor locations using future road alignment, elevations, lane configurations, projected traffic volumes, estimated truck mixes, and vehicle speeds. Noise attenuation methods may be analyzed, tested, and planned with TNM, as required.

4.1.3 CadnaA Noise Modeling Software

Modeling of the outdoor noise environment is accomplished using CadnaA Version 2020, which is a modelbased computer program developed by DataKustik for predicting noise impacts in a wide variety of conditions. CadnaA (Computer Aided Noise Abatement) assists in the calculation, presentation, assessment, and alleviation of noise exposure. It allows for the input of project information such as noise source data, barriers, structures, and topography to create a detailed model and uses the most up-to-date calculation standards to predict outdoor noise impacts. Noise standards used by CadnaA that are particularly relevant to this analysis include ISO 9613 (Attenuation of sound during propagation outdoors). CadnaA provides results that are in line with basic acoustical calculations for distance attenuation and barrier insertion loss.

4.1.4 Formulas and Calculations

Decibel Addition

To determine the combined logarithmic noise level of two known noise source levels, the values are converted to the base values, added together, and then converted back to the final logarithmic value, using the following formula:

$$L_{C} = 10\log(10^{L1/10} + 10^{L2/10} + 10^{LN/10})$$

where L_C = the combined noise level (dB), and L_N = the individual noise sources (dB).

This procedure is also valid when used successively for each added noise source beyond the first two. The reverse procedure can be used to estimate the contribution of one source when the contribution of another concurrent source is known and the combined noise level is known. These methods can be used for L_{EQ} or other metrics (such as L_{DN} or CNEL), as long as the same metric is used for all components.

Project-Generated Traffic Noise Impacts

Changes in traffic noise levels can be predicted by inputting the ratio of the two scenarios into the following logarithmic equation:

$$\Delta = 10 \log(V 2 / V 1)$$

where: Δ = Change in sound energy, V1 = original or existing traffic volume, and V2 = future or cumulative traffic volume.

Construction Vibration Calculations

The construction vibration assessment contained herein is evaluated using calculations of peak particle velocity (PPV). PPV at receivers is calculated as follows:

$$PPV_{equip} = PPV_{ref} \times (25/D)^{1.5}$$

where PPV_{equip} is the peak particle velocity (in inches per second) of the equipment, adjusted for distance, PPV_{ref} is the reference vibration level (in inches per second) at a distance of 25 feet from the equipment, and D is the distance from the equipment to the receiver.

4.2 Measurement Equipment

Some or all of the following equipment was used at the site to measure existing noise levels:

- Larson Davis Model LxT Type 1 Sound Level Meter, Serial # 4084
- Soft dB Model Piccolo II Type 2 Sound Level Meter, Serial # P0220112605
- Larson Davis Model CA200 Type 1 Calibrator, Serial # 16454

The sound level meter was field-calibrated immediately prior to the noise measurement and checked afterward to ensure accuracy. All sound level measurements conducted and presented in this report, in accordance with the regulations, were made with a sound level meter that conforms to the American National Standards Institute specifications for sound level meters (ANSI S1.4). All instruments are maintained with National Bureau of Standards traceable calibration, per the manufacturers' standards.

5.0 Noise Impacts

5.1 Exterior

5.1.1 Noise Impacts to Outdoor Use Areas

The City of San Diego requires multi-family residential projects to maintain noise levels of 65 CNEL or less at residential outdoor use areas. The project proposes private patios or balconies for some units, with a common outdoor use area on the second floor. Future traffic noise impacts were calculated at each of these outdoor use areas using CadnaA to determine whether noise impacts will exceed the 65 CNEL threshold.

Calculations assume shielding provided by the proposed project building on site. Outdoor use receivers were calculated at a height of 3.5-feet above floor level to represent ear height of a seated person. Results of this analysis are shown in Table 7 below. Additional information is provided in Appendix C, and a graphical representation of outdoor use receiver locations is provided as Figure 7.

	Table 7. Worst-Case Traffic Noise Levels at Outdoor Use Areas – Current Design								
Floor	Receiver	Location	Noise Limit (CNEL)	Exterior Traffic Noise Level (CNEL)					
1	OU1-1	Unit 1 Porch	65	59.2					
1	OU2-1	Unit 2 Porch	65	59.0					
	OU3-2	Unit 4 Balcony	65	59.1					
	OU4-2	Unit 5 Balcony	65	33.7					
2	OU5-2	Unit 6 Balcony	65	31.8					
	OU6-2	Unit 9 Balcony	65	58.9					
	OU7-2	Common Open Space	65	40.3					

Table 7. Worst-Case Traffic Noise Levels at Outdoor Use Areas – Current Design									
Floor	Floor Receiver Location Noise Limit (CNEL) Exterior Traffic No. Level (CNEL)								
	OU3-3	Unit 12 Balcony	65	58.8					
3	OU4-3	Unit 13 Balcony	65	35.8					
3	OU5-3	Unit 14 Balcony	65	36.6					
	OU6-3	Unit 17 Balcony	65	58.6					

As shown above, future traffic noise impacts at the project site will not exceed 65 CNEL at private outdoor use areas as designed. No project design features are deemed necessary for exterior noise control at the project site.

5.1.2 Noise Impacts to Building Facades

Future traffic noise impacts were also calculated at building facades and were found to range from 32 CNEL at the southern breezeway of the second floor to 60 CNEL at the west facade of the second floor. A complete listing of calculated future traffic noise impacts is shown in Table 8, and a graphical representation of building facade receiver locations is shown in Figure 8.

Table 8. Future Traffic Noise Levels at Building Facades							
	I	Future Traffic No	oise Levels at Building	Facades (CNEL)			
Receiver	Location	Floor 1	Floor 2	Floor 3			
F1	West	59.4	59.8	59.3			
F2	West	58.9	59.4	59.1			
F3	West	59.7	60.0	59.5			
F4	South	55.1	56.3	56.6			
F5	South	51.4	53.0	53.6			
F6	East	49.9	51.6	52.4			
F7	East	43.1	44.1	45.8			
F8	East	44.1	46.2	47.2			
F9	North	51.6	53.0	53.6			
F10	North	55.0	56.3	56.3			
F11	South		52.2	52.1			
F12	West		39.6	47.3			
F13	Southern Breezeway		32.1	38.0			

5.2 Interior

The State of California and the City of San Diego require buildings to be designed in order to attenuate, control, and maintain interior noise levels not greater than 45 CNEL in habitable space and 50 CNEL in commercial space, as formulated in the City of San Diego General Plan Table NE-3. According to the U.S. EPA (see reference), current exterior building construction is generally expected to achieve at least 15 decibels of exterior-to-interior noise attenuation with windows opened.

As shown in Table 8, noise impacts at project residential building facades will not exceed 60 CNEL. As all exterior noise levels at building facades will be 60 CNEL or less, all units on site will comply with City of San Diego interior noise regulations of 45 CNEL or less with typical building construction achieving 15 decibels of attenuation with windows opened. Likewise, as facade impacts do not exceed 65 CNEL at commercial facades, interior noise levels will also not exceed 50 CNEL with typical building construction. For these reasons, no special design features, such as mechanical ventilation or STC-rated glazing, are required for meeting interior noise limits in residential or commercial space.

5.3 Permanent Project-Related Noise Impacts

5.3.1 Mechanical Noise Impacts

As detailed in Section 2.3, applicable noise limits for permanent project-generated noise levels at this project site would be 45 dBA at single-family residential properties, 47.5 dBA at low-density multi-family residential properties, and 50 dBA at high-density multi-family residential property lines. Noise impacts of roof-mounted HVAC equipment, as detailed in Section 3.2.2, were calculated at surrounding property lines of noise-sensitive receptors to the north, south, and east and are shown in Table 9. Any other surrounding sensitive receptors are located at a greater distance from proposed equipment and will be exposed to lesser noise impacts due to additional distance attenuation and/or shielding provided by intervening structures. Ground-floor receptors were placed at a height of five feet above ground level. As there are second-story and third-story sensitive receptors were placed at heights of 15 feet and 25 feet to determine second-story and third-story sensitive receptors. Calculations considered noise shielding that will be provided by proposed on-site building. A graphical representation of noise source and receiver locations is provided as Figure 9. Please refer to Appendix C for additional information.

Table 9. Project-Generated Noise Levels at Surrounding Property Lines								
Receiver	Location	Nighttime Noise	Equipm	ent Noise Lev	el (dBA)			
Receiver	Location	Limit (dBA L _{EQ})	Floor 1	y Lines nt Noise Level Floor 2 32.9 33.4 31.2 37.0	Floor 3			
R1	North – High-Density MFR	50	29.9	32.9	41.4			
R2	Northeast – SFR	45	26.1					
R3	East – Low-Density MFR	47.5	28.8	33.4				
R4	East – SFR	45	27.2	31.2	38.9			
R5	South – High-Density MFR	50	31.1	37.0				

As shown above, as currently designed, noise levels from the mechanical equipment will be in compliance with the City of San Diego noise regulations found within the Municipal Code Section 59.5.0401 at all surrounding sensitive receptors. No project design features are deemed necessary to control project-generated noise impacts from mechanical equipment.

5.3.2 Project-Generated Traffic Noise Impacts

As detailed in Section 3.2.3, the proposed project is anticipated to generate approximately 118 ADT on surrounding roadways. For a worst-case analysis of project-generated traffic noise, the anticipated project traffic was added to the existing traffic volume of Lamont Street to determine the anticipated increase in noise levels along the roadway resulting from the addition of project traffic. This existing traffic volume was used to determine the anticipated increase in noise levels resulting from project-generated traffic. A significant impact is generally considered to be a doubling of sound energy, which is an increase of three decibels over existing conditions. Project-generated traffic noise increases are shown in Table 10.

Table 10. Anticipated Traffic Noise Increases with Project-Generated Traffic							
Desdauer	Traffic Volume (ADT)			Noise Level			
Roadway	Existing	Project	Existing + Project	Increase (dB)			
Lamont Street	6,100 118 6,218						

As shown in Table 10, no direct impacts are anticipated to result from project traffic, as the increase in noise levels along Lamont Street would be less than three decibels. For this reason, project-generated traffic noise levels will be less than significant.

Additionally, traffic noise impacts were evaluated at the edge of the right-of-way of Lamont Street to determine the traffic CNEL levels with and without the proposed project. Existing and existing plus project traffic noise impacts were evaluated in CadnaA; results are shown in Table 11.

Table 11. Anticipated Traffic Noise Increases with Project-Generated Traffic			
	Traffic Noise Impacts (CNEL) Existing Existing + Project Noise Level Increase		IEL)
Location			Noise Level Increase
Edge of Right-of-Way of Lamont Street	62.6	62.6	0.0

As shown above, project-generated traffic added to the existing traffic volume of Lamont Street will not result in significant traffic noise impacts at adjacent properties, as there will be no increase in traffic volumes at offsite receivers as a result of this project. As the addition of project-generated traffic to the existing traffic volume will be less than significant, the addition of project-generated traffic to the future traffic volume would likewise be less than significant, as future traffic volumes will exceed those in the existing environment and the addition of vehicle trips would have a lesser impact on noise levels.

5.4 Temporary Construction Noise Impacts

According to the City of San Diego Municipal Code Section 59.5.0404, construction activity is prohibited between the hours of 7 p.m. and 7 a.m. and on Sundays or legal holidays. During permissible hours of operation, noise levels from construction activity must be limited to a twelve-hour average of no greater than 75 dBA at any property line zoned for residential use.

According to the project proponent and from professional experience, on-site construction activities are expected to consist of foundation excavation and building construction. There will be a single phase of construction. Please refer to Table 6 for anticipated on-site construction equipment during each stage of activity, construction equipment noise levels, and duty cycles for each piece of equipment. Construction noise levels were calculated at property lines of surrounding sensitive receptors to the north, south, and east. Any other potentially noise-sensitive receivers are located at a greater distance from construction activity and would be exposed to lesser noise impacts due to distance attenuation and shielding provided by intervening structures.

Construction noise sources were placed near the center of the work area to evaluate typical impacts to the surrounding sensitive receptors as equipment moves around the property. Noise calculations consider typical duty cycles of equipment to account for periods of activity and inactivity on the site. Noise levels for each stage of construction are shown in Table 12. Detailed calculations can be found in Appendix C, and a graphical representation of construction noise source and receiver locations is provided as Figure 10.

Table 12. Temporary Construction Noise Levels at Surrounding Property Lines				
Activity Stage	Equipment	Receiver	Noise Limit (dBA L _{EQ})	12-Hour Average Construction Noise Level (dBA L _{EQ})
		C1 (North)	75	73.0
Foundation Excavation	Backhoe, Dump Truck, Excavator	C2 (East)	75	71.8
		C3 (South)	75	72.5
		C1 (North)	75	64.5
Building Construction	Air Compressor, Crane, Forklift	C2 (East)	75	63.2
		C3 (South)	75	64.0

As shown above, construction noise levels will meet the 75 dBA limit at all sensitive receptors. No additional project design features are deemed necessary for construction noise control.

Calculations show that all construction stages will be in compliance with construction noise limits of The City of San Diego Municipal Code Section 59.5.0404 as designed. The following "good practice" measures should still be practiced as a courtesy to residential neighbors:

- 1. Staging areas should be placed as far as possible from sensitive receptors. Ideally, staging areas would be located along the west boundary of the site.
- 2. Place stationary equipment in locations that will have a lesser noise impact on nearby sensitive receptors.

- 3. Turn off equipment when not in use.
- 4. Limit the use of enunciators or public address systems, except for emergency notifications.
- 5. Equipment used in construction should be maintained in proper operating condition, and all loads should be properly secured to prevent rattling and banging.
- 6. Schedule work to avoid simultaneous construction activities that both generate high noise levels.
- 7. Use equipment with effective mufflers.
- 8. Minimize the use of backup alarms.

With construction operating hours limited to those permitted by the City of San Diego and adherence to the general good practice construction noise control techniques, temporary construction noise impacts will be in compliance with the noise limits of the City of San Diego Municipal Code Section 59.5.0404 at surrounding noise-sensitive receptors.

The proposed foundation excavation phase of construction is expected to generate the highest vibration levels of the two stages, as it consists of excavation. According to the Federal Transit Administration Transit Noise and Vibration Assessment Manual (see reference), a small bulldozer generates a peak particle velocity (PPV) of approximately 0.003 inches/second at a distance of 25 feet from equipment. This vibration level for a small bulldozer is expected to be comparable to that of an excavator or backhoe, which are proposed to be used on site. The evaluation of an impact's significance can be determined by reviewing both the likelihood of annoyance to individuals as well as the potential for damage to existing structures. According to the Caltrans Transportation and Construction Vibration Guidance Manual (see reference), the appropriate threshold for damage to modern residential structures is a PPV of 0.5 inches/second. Annoyance is assessed based on levels of perception, with a PPV of 0.012 being considered "slightly perceptible," 0.035 inches/second as "distinctly perceptible," 0.100 inches/second as "strongly perceptible," and 0.400 inches/second as "very disturbing."

The exact location of all excavation activity is currently unknown; however, it is estimated that the nearest location would be approximately ten feet from the nearest residential structure, when the garage along the southern portion of the building is excavated. At this distance, the PPV would be approximately 0.012 inches/second. This level of vibration falls well below the building damage PPV criteria of 0.5 inches/second. The impact falls at the "slightly perceptible" PPV criteria for annoyance; however, vibration would be reduced to be less than perceptible by the time excavation is located at a distance of more than ten feet from receivers. As construction vibration is not anticipated to cause damage to off-site buildings and will only approach the threshold of "slightly perceptible" vibration for a short period of time when work is performed on the exterior boundaries of the proposed building, it is the opinion of the undersigned that temporary construction vibration impacts would not be "excessive" and therefore are less than significant.

6.0 Conclusion

The City of San Diego Noise Element to the General Plan Table NE-3 requires that residential outdoor use areas be protected from noise levels greater than 65 CNEL. Calculations show that exterior noise levels at the outdoor use areas will meet the exterior noise limit of 65 CNEL as designed. Therefore, no project design features are deemed necessary to attenuate exterior noise impacts to outdoor use areas at the site.

The City of San Diego General Plan Table NE-3 requires interior noise levels of 45 CNEL or less in residential units and 50 CNEL or less in commercial units. Calculations show that future traffic noise impacts to building facades will not exceed 60 CNEL; therefore, interior noise levels in residential and commercial spaces will comply with the 45 CNEL and 50 CNEL requirements, respectively, with typical building construction. No special design features, such as mechanical ventilation or STC-rated glazing, are required for meeting interior noise limits for residential or commercial spaces.

Noise from the anticipated HVAC equipment on site was calculated to determine impacts at sensitive receptors. Calculations show that noise levels from the mechanical equipment will be in compliance with the City of San Diego noise regulations found within the Municipal Code Section 59.5.0401 at all surrounding sensitive receptors. No project design features are deemed necessary to control project-generated noise impacts from mechanical equipment. Additionally, it was determined that no significant noise impacts would result from project-generated traffic.

Calculations show that noise from temporary construction activities will not exceed the applicable construction noise limits of the City of San Diego Municipal Code Section 59.5.0404 at surrounding sensitive receptors. Construction is prohibited between the hours of 7 p.m. and 7 a.m. and on Sundays or legal holidays. Standard construction noise control methods, including adhering to permissible hours of operation, maintaining equipment in proper operating condition, and placing staging areas at furthest locations from noise sensitive receptors. As construction vibration is not anticipated to cause damage to off-site buildings and will only approach the threshold of "slightly perceptible" vibration for a short period of time when work is performed on the eastern portion of the building, it is the opinion of the undersigned that temporary construction vibration impacts would not be "excessive" and therefore are less than significant.

As detailed herein, noise impacts to and from the project site will comply with all applicable City of San Diego noise regulations with the project is currently designed.

7.0 Certification

All recommendations for noise control are based on the best information available at the time our consulting services are provided. However, as there are many factors involved in sound and impact transmission, and Eilar Associates has no control over the construction, workmanship, or materials, Eilar Associates is specifically not liable for final results of any recommendations or implementation of the recommendations.

The findings and recommendations of this acoustical analysis report are based on the information available and are a true and factual analysis of the potential acoustical issues associated with the NEST project, to be located at 4033 and 4039 Lamont Street in the City of San Diego, California. This report was prepared by Mo Ouwenga and Amy Hool.

M & Ouwenga

Mo Ouwenga, INCE Acoustical Consultant

A

Amy Hool, INCE President/CEO

8.0 References

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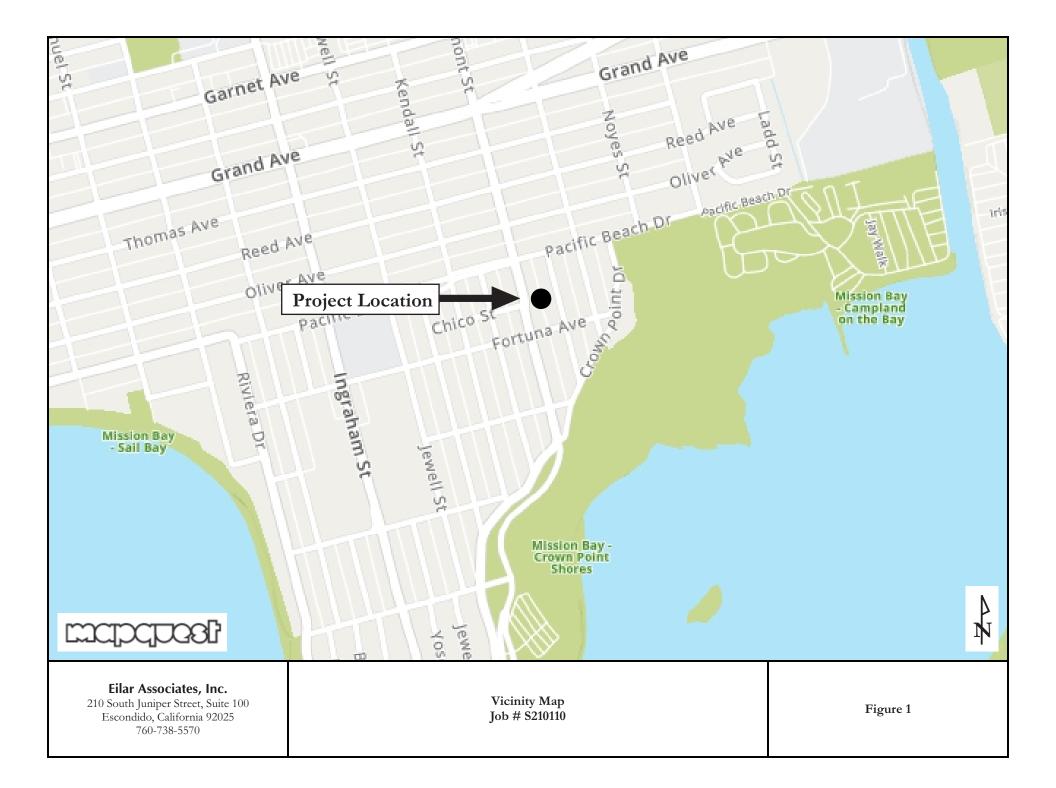
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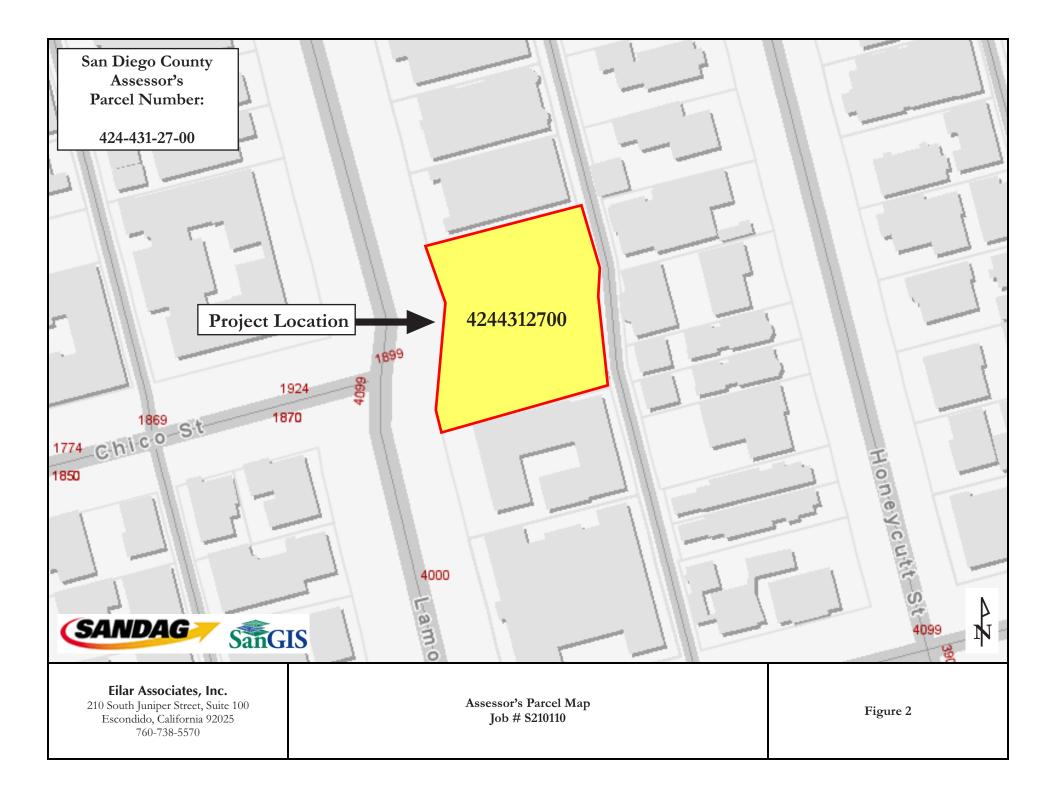
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Figures



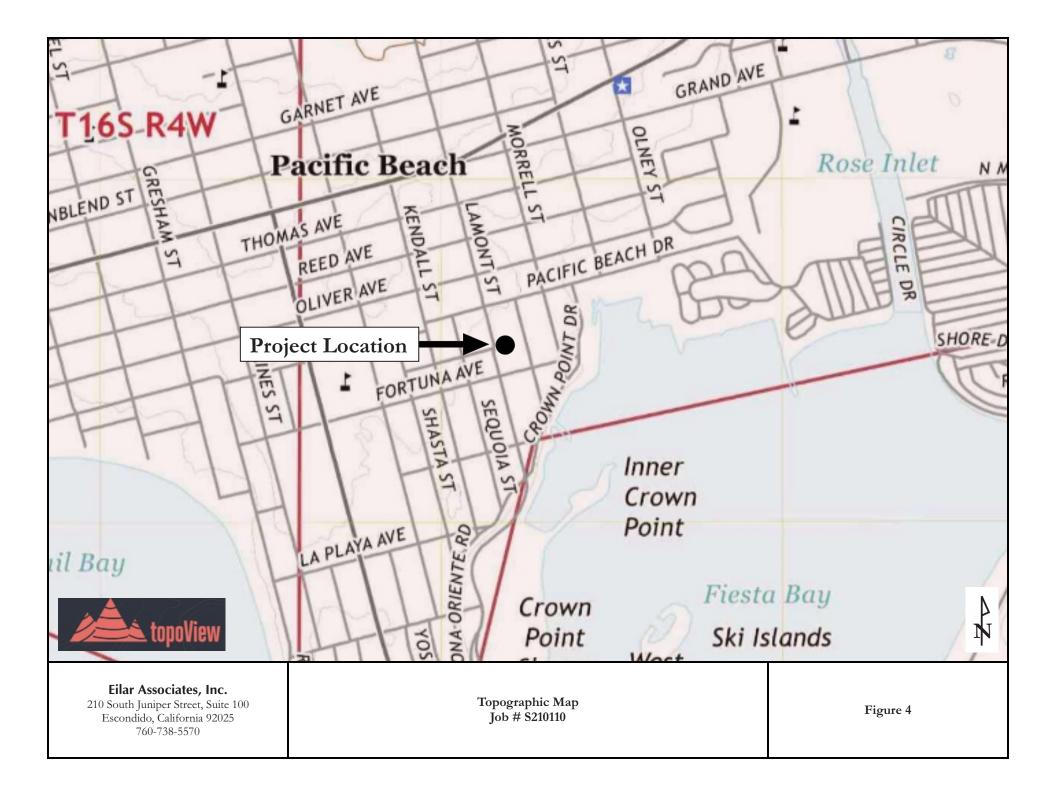


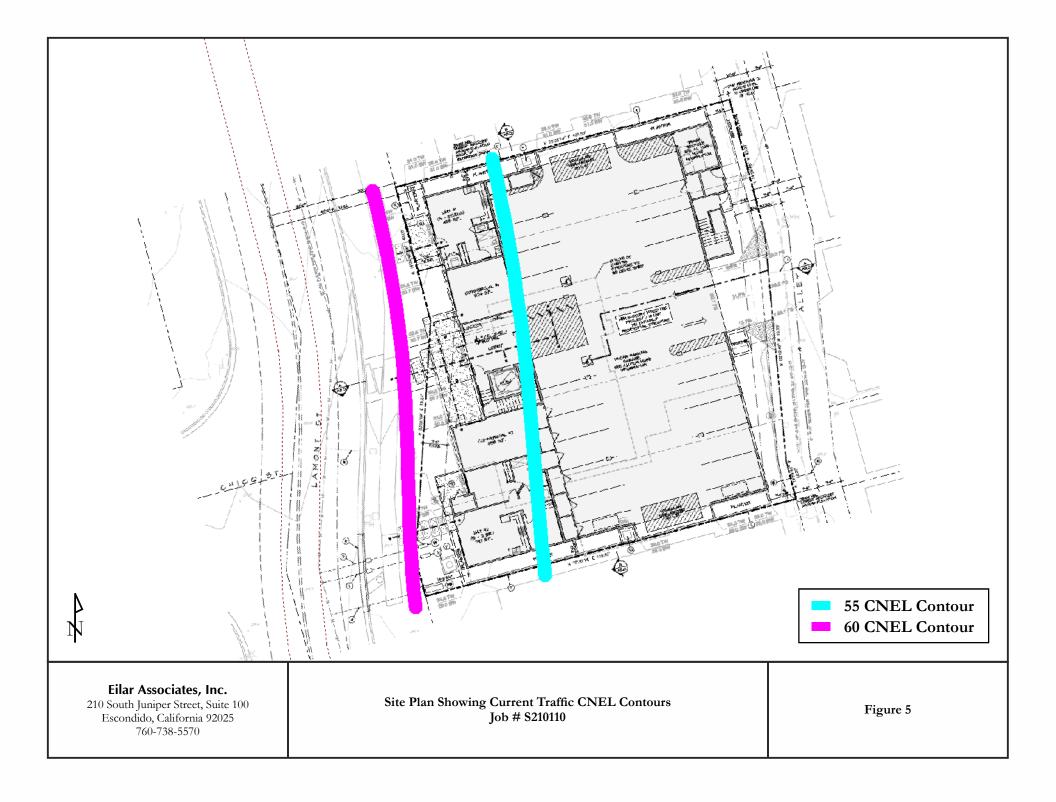


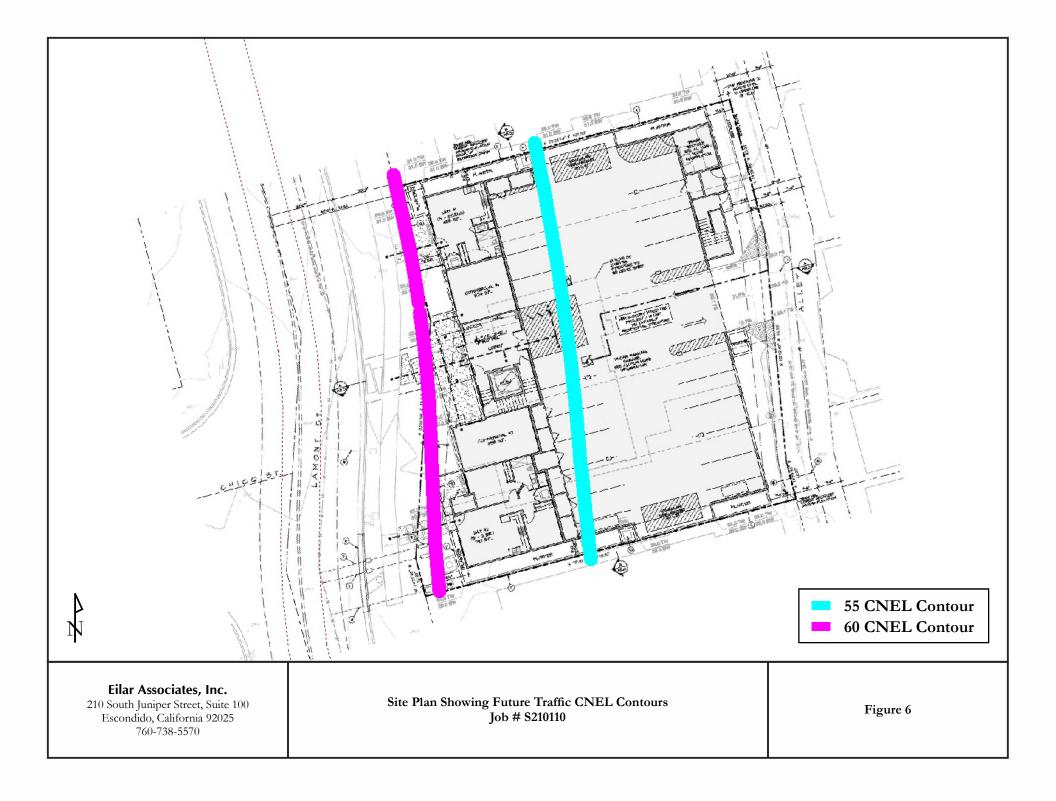
Eilar Associates, Inc. 210 South Juniper Street, Suite 100 Escondido, California 92025 760-738-5570

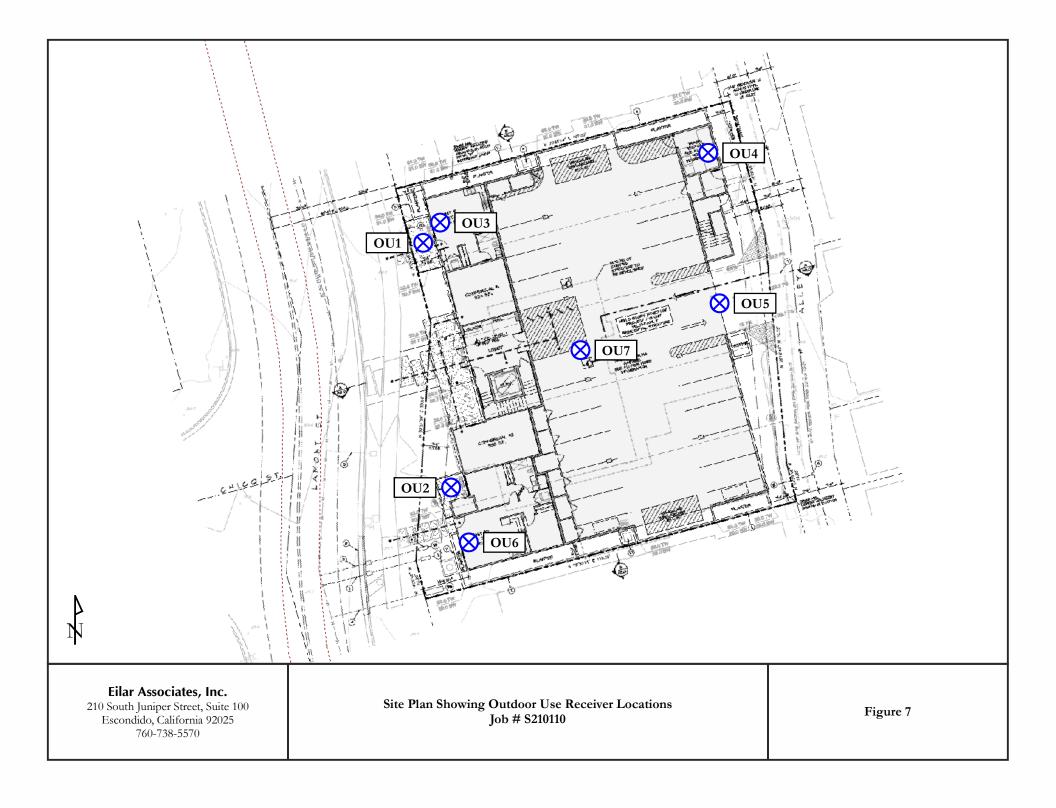
Satellite Aerial Photograph Showing Noise Measurement Locations Job # S210110

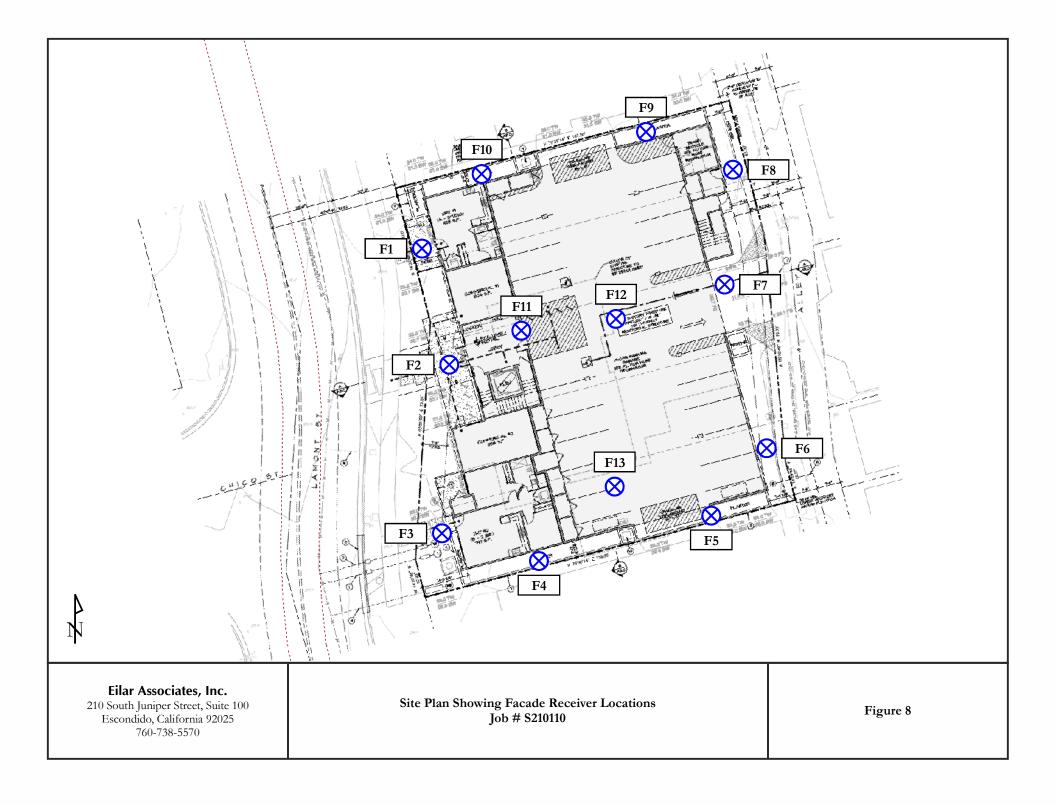
Figure 3

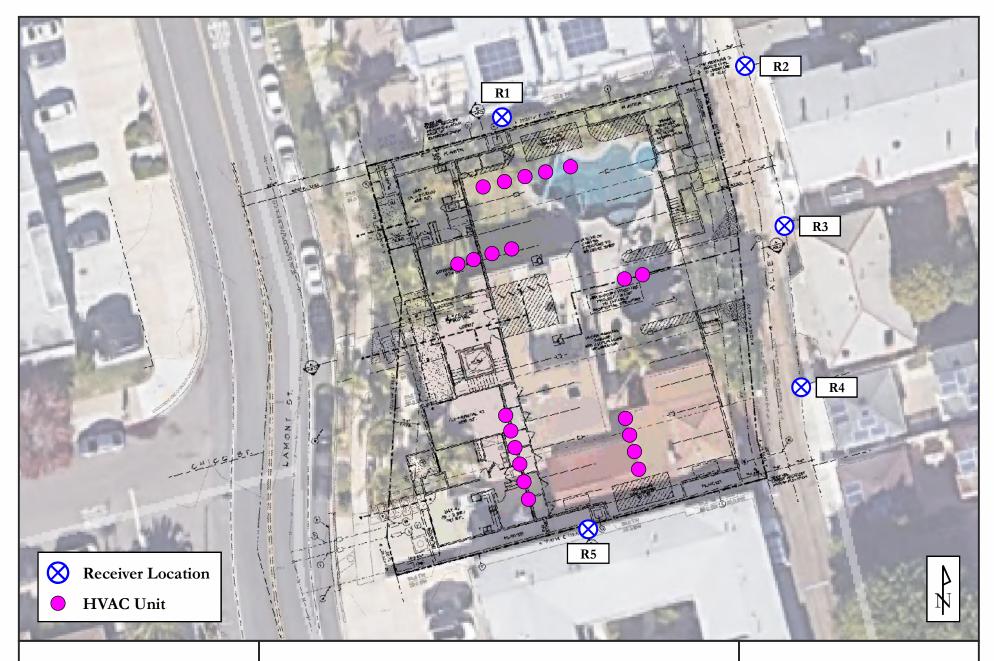








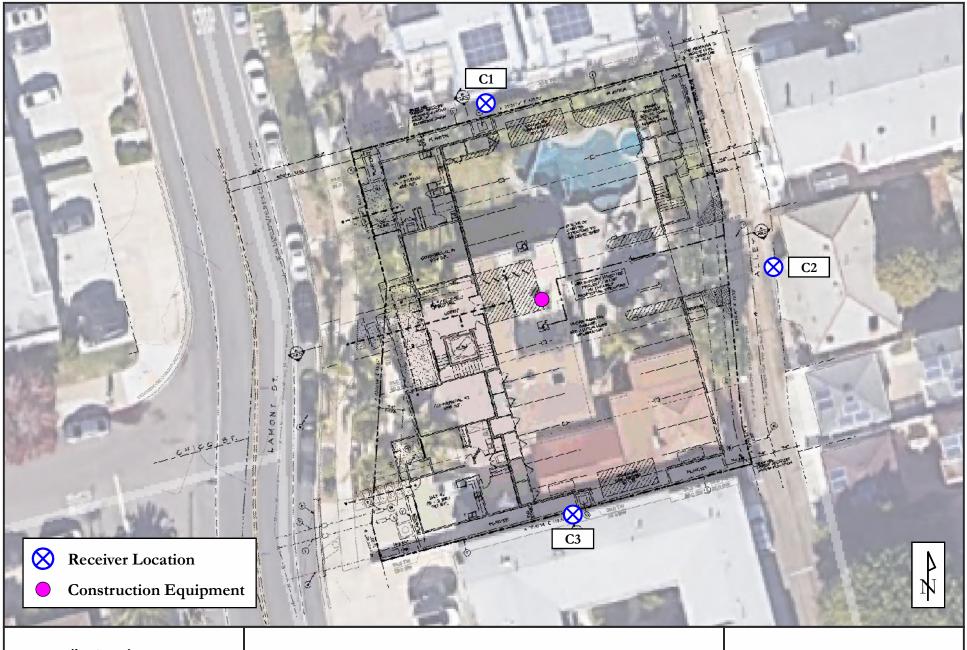




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Satellite Aerial Photograph Showing Site Plan, Mechanical Equipment Locations, and Receiver Locations Job # S210110

Figure 9

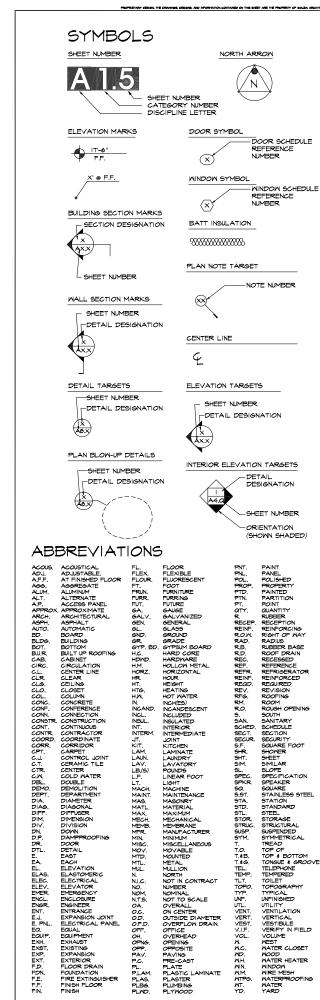


Eilar Associates, Inc. 210 South Juniper Street, Suite 100 Escondido, California 92025 760-738-5570 Satellite Aerial Photograph Showing Site Plan, Construction Equipment Location, and Receiver Locations Job # S210110

Figure 10



Appendix A Project Plans



VICINITY MAP NTS PRO FOT SITE Pacific Beach S Trader Joe's Mission Bay Col Mr. Shawa Crown Point Parking Crown an Diego San Diego Mission

DEVELOPMENT INCENTIVES

INCENTIVE #1

AN INCENTIVE TO ALLOW THE STRUCTURE TO OBSERVE A 7'-6" MINIMUM FRONT YARD SETBACK FOR CERTAIN ELEMENTS OF THE STRUCTURE INSTEAD OF A 15' MINIMUM SETBACK FOR 50% AND A 20' STANDARD SETBACK FOR THE OTHER 50% OF THE SETBACK AS REQUIRED BY THE SAN DIEGO MUNICIPAL CODE (SDMC) SECTION 131.0443 (E) (1) TH STRUCTURE AND IT'S SETBACKS TO THE CURVING STREET ARE NOT AT STANDARD PLANE ND THE AVERAGE SETBACK GIVEN THE DEEP OFFSETS OF THE FRONT FACADE AND THE CURVING FRONTAGE ARE CLOSE TO THE ACTUAL LDC REQUIREMENTS BUT THIS DEVIATION CONTING FROM THE PARE CLOSE TO THE ACTION ALL DC REGIONEMENTS BOT THIS DEVIATION WILL ALLOW FOR A FOOTPRINT AND PARKING AT LEV ROPOSED DEVISITY, ADDITIONALLY, DUE TO THE CURVE OF LAMONT STREET AT THIS LOCATION, THE PUBLIC RIGHT OF WAY AND LANDSCAPED BELTWAY IS ALREADY GREATER THAN MOST OF THE ADJACENT FROMTAGE ALONG LAMONT STREET AND THIS DEVIATION WILL ONLY RETURN THIS PROPERT FRONTAGE TO A CONSISTENT FEEL GIVEN THE EXCESSIVE FRONTAGE THAT EXISTS NOW.

NCENTIVE #2:

INCENTIVE #2: AN INCENTIVE TO ALLOW THE STRUCTURE TO OBSERVE THE MINIMUM 5' SIDE YARD SETBACKS INSTEAD OF THE GREATER SETBACK OF 10% OF THE ENTIRE PREMISES WIDTH AS REQUIRED BY THE SAN DIEGO MUNICIPAL CODE (SDMG) SECTION 13.0443 (E) (2). THIS INCENTIVE ALLOWS FOR THE FEFCIENT DEVELOPMENT OF THIS 18 UNTIL INFLL SITE THROUGH THE ACCUMULATION OF THE FIVE BASE CONTIGUOUS PARCELS, WHEN COMBINED FOR THIS DEVELOPMENT. THE INCENTIVE REQUEST ALLOWS FOR A MUCH GREATER EFFCIENCY THROUGH THE ACCUMULATED TOTAL LOT SIZE THAT COULD NOT BE AFFORDED IF THE LOTS WERE DEVELOPED INNOTWALL, YAND AS A RESULT, THE DESIGN HAS A MUCH MORE DESIRABLE DENSITY. THIS INCENTIVE MERLY SEEKS RELIFF FROM THE UNFORTUNATE CONSEQUECE OF DEVELOPING THE LOT WIDTH OF AN INDIVIDUAL LOT BUT SETBACKS WOULD NO LONGER BE BASED ON THE LOT WIDTH OF AN INDIVIDUAL LOT BUT SETBACKS ON THE PROJECT'S NORTH AND SOUTH SIDE YARDS. THE INCENTIVE RECIDESTS TO PROVIDE 5' SETBACKS ON THE PROJECTS SIDE YARD SETBACKS ON THE PROJECT'S NORTH AND SOUTH SIDE YARDS. THE INCENTIVE REQUESTS TO PROVIDE 5' SETBACKS ON THE PROJECTS SIDE YARD SETBACKS AND THE DRALETS TO REAVEN AND THE GENERAL PROJECTS SIDE YARDS SETBACKS ATHS INDICATIVE REQUEST. THAT YOULD HAVE USED THE SAME 5' SIDE YARD SETBACKS ATHS INDICATIVE REQUEST. STRUCT ADHERINCE TO THE SME 5'SIDE YARD SETBACKS ATHS INDICATIVE REQUEST. STRUCT ADHERINCE TO THE SME 5'SIDE YARD SETBACKS ATHS INDICATIVE REQUEST. STRUCT ADHERINCE TO THE SAME 5'SIDE YARD SETBACKS WOULD LIKELY RESULT IN THE LOSS OF 4 TO 8 UNITS RENDERING THE PROJECT ECONOMICALLY INFEASIBLE. INFORTIVE REQUEST AND

NCENTIVE #3:

AN INCENTIVE TO REDUCE THE PERCENTAGE OF DWELLING UNITS THAT HAVE PRIVATE AN INCENTIVE TO REDOCE THE PEACEWAGE OF DWILLING OWING THAT HAVE PRIVATE EXTERIOR SPACE AS REQUIRED BY THE SAN DIEGO MUNICIPAL CODE (SOMC) SECTION 131.0455 (B). IN THE RN-25 ZONE, AT LEAST 75 PERCENT OF THE DWILLING UNITS SHALL BE PROVIDED WITH AT LEAST 60 SQUARE FEET OF USABLE, PRIVATE, EXTERIOR OPEN SPAC ABUITING THE UNIT WITH A MINIMUM DIMENSION OF 6 FEET. THIS PROJECT PROPOSES 10 ABUT ING THE UNIT WITH A MINIMUM DIMENSION OF 6 FEET. THIS FROJECT PROPOSES TO OF THE 16 UNITS (55%) TO BE PROVIDED WITH PRIVATE EXTERIOR SPACE, HOWEVER, THE PROJECT PROPOSES EXTENSIVE COMMON OPEN SPACES ON BOTH THE 2ND AND 3RD LEVELS TO COMPENSATE FOR THE 4 UNITS WITHOUT PRIVATE EXTERIOR SPACE, AND THIS DEVIATION ALLOWS FOR AT LEAST 4 ADDITIONAL BEOROMOK AS PART OF THOSE UNITS THAI WITHOUT THIS DEVIATION WOULD NEED TO BE REMOVED OR REDUCED.

NCENTIVE #4:

AN INCENTIVE TO ALLOW FOR AN EXPANDED LIST OF ALLOWED COMMERCIAL USES BEYOND AN INCENTIVE TO ALLOWED BY RIGHT IN THE PRIZE ZONE AS PART OF THE MIXED USES BETOW THOSE ALREADY ALLOWED BY RIGHT IN THE PRIZE ZONE AS PART OF THE MIXED USE DENSITY ALLOWED FOR IN THE PACIFIC BEACH COMMUNITY PLAN, THE INCENTIVE WILL ALLOW FOR A BROADER AND MORE DIVERSE RANGE OF USES TO ALLOW FOR AREATER OPPORTUNITIES TO PROVIDE MEANINGFUL MIXED USE OPPORTUNITIES AS OUTLINED IN TH COMMUNITY PLAN TRANSIT ORIENTED DEVELOPMENT GOALS AND DENSITY BONDS. THE INCENTIVE REQUESTS COMMERCIAL USES AS OUTLINED IN THE CC-4-2 ZONE BE ALSO ALLOWED AS PART OF THIS PROJECT AS OUTLINED IN STATE OF CALIFORNIA DENSITY BONUS LEGISLATION.

GENERAL PLAN DEVELOPMENT GOALS

THE PROPOSED PROJECT RECOGNIZES THE GOALS OF THE CONSERVATION ELEMENT OF THE CITY OF SAN DIEGO'S GENERAL PLAN

IN AN EFFORT TO REACH THESE GOALS. THE PROJECT WILL EMPLOY THE OLLOWING

- SOLAR PHOTOVOLTAIC SYSTEM FOR GENERATING POWER ON SITE (UNDER

- SOLAR PHOTOVOLTAIC SYSTEM FOR GENERATING POWER ON SITE (UNDER SEPARATE PERIT)
 HIGH EFFICACY LIGHTING OR OCCUPANCY SENSORS WHERE APPLICABLE
 "ENERGY STAR" APPLIANCES
 DUAL PANE LOW-E GLAZING ON ALL NEW WINDOWS
 USE OF LOW V.O.C. PAINTS AND LOW EMITTING ADHESIVES, COATINGS, CARPETS, AND OTHER FINISHES WHERE FEASIBLE
 USE OF ENGINEERED WOOD PRODUCTS WHERE APPLICABLE
 NATURAL COLING AND VENTLATION WITH OPERABLE WINDOWS
 WATER CONSERVING NATIVE & PEST RESISTANT PLANTS IN LANDSCAPE
 DESIGN WHERE FEASIBLE
 USE OF PERMABLE PAVING WHERE FEASIBLE
 USE OF REIN SENSOR SHIT OF DEVICES
 HIGH EFFICIENCY IRRIGATION SYSTEM WITH STATE OF THE ART LOW
 PRECIPITATION CAN'S SYSTEM WITH STATE OF THE ART LOW
 PRECIPITATION CON SEPARATE CIRCUIT IN EACH GARAGE FOR ELECTRIC
 CAR USAGE

SETBACK T	ABLE		
SETBACK	REQU	RED	PROPOSED
FRONT (WEST, LAMONT ST.)	MIN.	15-0"	7'-6"
	STANDARD	20'-0"	1-0
SIDE (NORTH & SOUTH)	MIN.	12'-6"	5'-0"
REAR (EAST, ALLEY)	MIN.	15'-0"	15'-0"

GROSS FLOOR AREA

IST FLOOR*	2,696
2ND FLOOR*	7,914
BRD FLOOR*	7,914
TOTAL 6.F.A.	18,524
ENCLOSED PARKING GARAGE (NOT INCLUDED IN G.F.A. PER 5DMC 113.0234(d)(3)(B)(11) + (111))	7,504
DECKS & PATIOS & EXT. WALKWAYS	4,854
INCLUDES SQUARE FOOTAGE OF STORAGE UNITS AT ALL RESIDENTIAL UNITS.	

FLOOR AREA ANALYSIS

IST FLOOR (COMMON AREA / NON-RESIDENTIAL)

COMMERCIAL SUITES	LOBBY	ELEV. 8 STAIRS	PARKING GARAGE	TOTAL	TOTAL G.F.A.
682	301	413	7,504	8,900	1,396
ENCLOSED PARKING G		T INCLUDED	IN G.F.A. P	ER	

2ND & 3RD FLOORS (COMMON AREA)

	ELEV. # STAIRS	r	ALKWAY	тс	DTAL.		TAL =.A.
	450		1,960	2	,410	4	50
	450		1,482	U.	432	4	50
	900		3,442	4	342	90	~
BRD FLC	ORS (PR		ESIDENTIA	L AREA	2		
TYPE A	TYPE B	TYPE C	TYPE D, D.I & D.2	TYPE D.3	TYPE E	TOTAL	TOTAL G.F.A.
453	797	875	882	878	1,136	-	-
IN GARAGE	50	34	IN GARAGE	35	34	-	-
453	1,205	909	882	913	1,170	-	-
I	I	4	D: 4 D.l: 2 D.2: 2	2	2	18	-
453	1,155	3,500	7,056	1,826	2,272	16,262	16,262
IN GARAGE	50	136	IN GARAGE	70	68	324	324
453	1,205	3,636	7,056	1,896	2,340	16,586	16,586
	TYPE A 453 IN GARAGE 453 I 453 I GARAGE	STAIRS 450 450 450 900 RD FLOORS (PR 17PE A TYPE B 453 453 1205 453 1205 1 453 1,155 N 6ARAGE 50	STARS	STAIRS MALNAT 450 1,460 450 1,460 450 1,482 900 3,442 200 3,442 200 3,442 200 3,442 200 3,442 200 3,442 201 1,005 453 1,77 453 1,47 6ARAGE 50 453 1,205 403 6ARAGE 403 1,205 453 1,155 3,500 7,056 6ARAGE 50 1 1 453 1,155 3,500 7,056 6ARAGE 50	STAIRS MALKAAT IC 450 I,460 2 450 I,482 I; 900 3,442 4 PRD FLOORS (PRIVATE RESIDENTIAL AREA TYPE A TYPE B 453 197 875 882 878 453 197 875 882 818 6ARAGE 50 34 6ARAGE 35 453 1,205 9,04 822 918 1 1 4 D: 4 2 2 2 453 1,55 3,500 7,056 1,826 6ARAGE 50 136 6ARAGE 70	STAIRS MALKNAT IOTAL 450 1/460 2/40 450 1/460 2/40 450 1/482 1/432 900 3/442 4/342 900 3/442 4/342 900 3/442 4/342 900 3/442 4/342 900 3/442 4/342 900 779E 779E 900 779E 779E 453 147 8/15 8/82 8/18 1/36 6/ARAGE 50 3/4 6/ARAGE 35 34 453 1/205 9/04 8/62 9/13 1/170 1 1 4 1/15 2 2 2 453 1/155 3/500 7/056 1/8/26 2/212 453 1/155 3/500 7/056 1/8/26 2/212	STAIRS MALKNAY TOTAL GI 450 1/460 2/410 44 450 1/460 2/410 44 450 1/482 1/432 44 900 3/442 4/342 90 900 3/442 4/342 90 900 3/442 4/342 90 900 3/442 4/342 90 900 3/442 4/342 90 900 3/442 4/342 90 900 7/96 7/97 7/97 1453 1477 8/15 8/82 8/78 1/36 6ARAGE 50 3/4 1/10 - - 1 1 4 1/2, 2 2 18 453 1/35 3500 7/056 1/826 2/212 16/262 1 1 4 1/15 3/500 1/056 1/826 2/212 16/262 453 1/155<

PARKING CALCULATIONS

104

4|6

-

-

196

808

-

-392

	REQUIRED	PROVIDED
RESIDENTIAL 0.5 SPACES REQ'D FOR EACH BDRM., 17 2-BEDROOM UNITS & I STUDIO = 35 BDRM.	ıø	ıø
COMMERCIAL 2.1 SPACES REQ'D FOR EACH 1,000 S.F., 682 S.F. TOTAL	I	I
MOTORCYCLE SPACES PER S.D.M.C. TABLE 142-05C & D	2	2
BICYCLE SPACES PER S.D.M.C. TABLE 142-05C & D	٩	IO IN GARAGE, 6 IN FRONT

PARKING NOTES

UNIT ON ON DECK S.F. GRADE GRADE

TOTAL ON ON DECK S.F. GRADE GRADE

RESIDENTIAL PARKING RATIO REQUIREMENTS PER CHAPTER 14, ARTICLE 3 DIVISION 7: AFFORDABLE HOUSING REGULATIONS, SDMC SECTION 143,0744 \$ TABLE 143-07D.

DENSITY CALCULATIONS

DENSITY NOTES:

- I. THE PROPOSED MIXED-USE PROJECT DENSITY COMPLIES WITH THE DENSITY ESTABLISHED BY THE APPLICABLE LAND USE PLAN, THE PACIFIC DEACH COMMUNITY PLAN, THE DENSITY ESTABLISHED BY THE LAND USE PLAN IS HIGHER THAN THE DENSITY ESTABLISHED BY THE BASE ZONE, (SEE TABLE BELOW) (REFER TO SAN DIESO MINICIPAL CODE SECTION 143,040(06/3)(D)) 2. THE PROPOSED MIXED-USE PROJECT IS REQUESTING AN AFFORDABLE HOUSING DENSITY BONUS BASED ON PROVIDING 13% OF THE PRE-BONUS DENSITY AT VERY LOW INCOME PER SOMG SECTION 143,0120 AND TABLE 143-013A.

	I DWELLING UNIT ALLOWED PER GIVEN LOT S.F.	TOTAL ALLOWABLE NUMBER OF DWELLING UNITS
SAN DIEGO MUNICIPAL CODE ZONE RM-2-5 (PER TABLE ISI-046)	1,500 S.F.	IO UNITS
PACIFIC BEACH COMMUNITY PLAN (PER COMMERCIAL LAND USE, PAGE 41, POLICY #4)	1,000 S.F.	14 UNITS
42.5% AFFORDABLE HOUSING DENSITY BONUS (PER SDMC 143.0720 & TABLE 143-0TA)		6 UNITS
ALLOWABLE RESIDENTIAL DENSITY (P. B. ALLOWABLE DENSITY + AFFORDABLE DENSITY BONUS)		20 UNITS

PROJECT DATA

PROJECT DESCRIPTION

THE PROJECT PROPOSES TO DEMOLISH AN EXISTING SINGLE STORY 3301 5.F. 2-UNIT APARTMENT AND TO CONSTRUCT A NEW 3-STORY MIXED USE BUILDING NITH IB RESIDENTIAL UNITS, THE FIRST FLOOR MILL CONSIST OF 2 FOR-RENT RESIDENTIAL UNITS, 2 COMMERCIAL SUITES, A LOBBY, 4 ON-SRADE PARKING, THE 2ND 4 BRD FLOORS MULL CONTAIN & FOR-RENT RESIDENTIAL UNITS, EACH, FOR A TOTAL OF 18 FOR-RENT RESIDENTIAL UNITS.

THIS IS AN AFFORDABLE HOUSING DENSITY BONIS PROJECT. THE PROJECT PROPOSES TO UTILIZE THE AFFORDABLE HOUSING DENSITY BONUS PROGRAM. THE AREA OF THE LOT IS 13,969 SQUARE FEET AND IT IS LOCATED WITHIN THE RM-2-5 BASE ZONE. THE PROJECT SITE IS ALSO LOCATED WITHIN THE PACIFIC BEACH COMMUNITY PLAN. THE PROJECT PROPOSES TO USE THE ALLOWABLE DENSITY WITHIN THE FB COMMUNITY PLAN FOR TRANSIT ORIENTED PROJECTS OF ONE DWELLING WIT PER LOOD SQUARE FEET PER COMMERCIAL LAND USE, PAGE 41, POLICY #4, THE ALLOWABLE DENSITY PER THE PB COMMUNITY PLAN IS 14 DWELLING WITTS.

41, POLICY #4, THE ALLOWABLE DENSITY PER THE PE COMMUNITY PLAN IS 14 DWELLING WINTS. THE PROJECT WILL ALSO UTILIZE THE CITY OF SAN DIEGO DENSITY BONUS PROGRAM AND RESERVE 1986 OF THE PRE-BONUS UNITS AS VERY LOW INCOME WITS (2 WITS) AS DEFINED IN SECTION 143,0720(c)(I), PER TABLE 143-0TA OF THE AFFORDABLE HOUSING REGULATIONS, THE ALLOCATION OF A MINIMUM OF 13% OF THE PRE-DENSITY UNITS PROVIDES UP TO 42.5% DENSITY BONUS AITH FOR DEVELOPMENT INCENTIVES, AND IN THIS PROJECT, TAKES THE BASE DENSITY OF 14 UNITS TO THE 18 UNITS AS PROPOSED -USING A 28.6% DENSITY BONUS.

CITY OF SAN DIEGO EXPEDITE QUALIFICATION:	THIS PROJECT GUALIFIES FOR EXPEDITE PERMIT PROCESSING PER BUILETIN 536, SECTION III, QUALIFYING PROJECT TYPE A AT LEAST 10% OF THE TOTAL UNITS BEING SET ASIDE FOR HOUSEHOLDS WITH AN INCOME AT OR BELOW 60% AREA MEDIAN INCOME.
SITE ADDRESS:	4033-4039 LAMONT ST. SAN DIEGO, CA 92109
ASSESSOR'S PARCEL NUMBER:	424-431-27-00
LEGAL DESCRIPTION:	LOT 13-17 IN BLOCK I OF VENICE PARK, IN THE CITY OF SAN DIEGO, SCUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO MAP THEREOF NO, 491, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY MAY 24, 1906.
BUILDING CODES:	2019 CALIFORNIA BUILDING CODE 2019 CALIFORNIA RESIDENTIAL CODE 2019 CALIFORNIA ELECTRICAL CODE 2019 CALIFORNIA MECHANICAL CODE 2019 CALIFORNIA MECHANICAL CODE 2019 CALIFORNIA GREEN BUILDING CODE 2019 CALIFORNIA GREEN BUILDING CODE 2019 CALIFORNIA FREC CODE 5AN DIEGO MUNICIPAL CODE
YEAR BUILT:	1953
EXISTING SOILS CONDITION:	PREVIOUSLY GRADED & DISTURBED
GEOLOGIC HAZARD CATEGORY:	52
OCCUPANCY:	R-2 \$ 5-2
CONSTRUCTION TYPE:	TYPE VB, FIRE SPRINKLERED (NFPA 13D)
LOT ZONING:	RM-2-5
OVERLAY ZONES:	COASTAL HEIGHT LIMIT CITY COASTAL (N-APP-2) PARKING IMPACT TRANSIT PRIORITY AREA PACIFIC BEACH COMMUNITY PLAN
LOT SIZE:	13,989 SF
LOT USE: EXISTING: PROPOSED:	MULTIFAMILY RESIDENTIAL MULTIFAMILY RESIDENTIAL
ALLOWABLE F.A.R.:	1,35
ALLOWABLE AREA:	18,885 S.F. (1.35 × 13,989)
PROPOSED F.A.R.:	1.35
	14 PER THE PACIFIC BEACH COMMINITY PLAN (SEE DENSITY CALCULATIONS) 46 PER THE 42.5% DENSITY DONS FOR AFFORDABLE HOUSING (SEE DENSITY CALCULATIONS) = 20 TOTAL ALLONABLE DWELLING UNITS
PROPOSED:	18 DWELLING UNITS
NUMBER OF STORIES; EXISTING; PROPOSED;	I - STORY 3 - STORIES
BUILDING HEIGHT: ALLOWABLE: PROPOSED:	40'-0" PER BASE ZONE, 30'-0" PER PROP. 'D' 29'-10" MAX. ABOVE HIGH POINT OF GRADE
11010525	PER PROP. D MEASUREMENT
COMMON OPEN SPACE: REQUIRED: PROPOSED:	450 S.F. (25 S.F./DJ = 25 S.F. X IA DJ) 868 S.F. AT THE 2ND FLOOR PODIUM DECK OPEN TO THE SKY
PRIVATE OPEN SPACE: REQUIRED: PROPOSED:	60 S.F. FOR 75% OF DWELLING UNITS 10 (55%) OF THE 18 DWELLING UNITS ARE PROVIDED MITH AT LEAST 60 S.F. SEE INCENTIVE #4.
STORAGE:	ALL DWELLING UNITS ARE PROVIDED WITH THE REQUIRED STORAGE PER SDMC 131,0454
REFUSE & RECYCLING: REQUIRED: PROVIDED:	RE5: 48 S.F. REFUSE & 48 S.F. RECYCLING TOTAL 46 S.F. REFUSE/RECYCLING 147 S.F. REFUSE/RECYCLING

INATING WITH GOLDA ARCHITECTURE SHALL BE THE PR	NOTERTY OF BOLEA ARCHITECTURE. ANY USE OF MATERIAL SHALL BE SUBJECT TO ROTALTY PAYNESITS TO BOLEA ARCHITECTURE	
ARCHITECTURAL AC.0 SITE FLAN AI.1 FIRST FLOO AI.2 SECOND FLC AI.3 THRCP FLOO AI.4 ROOF PLAN A2.0 BULDING EL A2.1 BULDING EL A3.0 SITE SECTIC LANDSCAPE L-0 LANDSCAPE L-2 CONCEPTUAL L-3 CONCEPTUAL L-3 CONCEPTUAL L-5 YARD AREA L-6 MATER CON ARTER CON L-6 MATER CON L-7 MATER CON L-8 MATER CON	ET FORMATION HIC SURVEY Y GRADING FLAN DETAILS & NOTES Y GRADING FLAN DOR PLAN DOR PLAN EVATIONS EVATIONS EVATIONS COVER SHEET I DEVELOPMENT FLAN - NOTES & LEGEND L LANDSCAPE PLAN - FIRST FLOOR L LANDSCAPE PLAN - FIRST FLOOR CALCULATIONS	SOLBA ARCHITECTURE
PROJEC	T DIRECTORY	U
	THOMAS WILLIAM PAULL 4039 LAMONT ST. SAN DIEGO, CA 92109	
ARCHITECT:	GOLBA ARCHITECTURE, INC. 1940 GARNET AVE., SUITE 100 SAN DIEGO, CA 92109 TEL. (619) 231-9905, CONTACT: SARAH HORTON	
SURVEYOR & CIVIL ENGINEER:	CHRISTENSEN ENGINEERING & SURVEYING T888 SILVERTON AVE., SUITE J SAN DIEGO, CA 92126 TEL. (858) 271-9901, CONTACT: ANTONY CHRISTENSEN	
ARCHITECT:	TOPIA SOBS NORTH HARBOR DR., SUITE 200 SAN DIEGO, CA 42106 TEL. (858) 458-0555 CONTACT: FRANK MARCZYNSKI, ASLA	Ĺ
	TERRAPACIFIC CONSULTANTS, INC. 4010 MORENA BOULEVARP, SUITE 108 5AN DIEGO, CA 92117 TEL. (858) 521-1190, CONTACT: CRISTOPHER O' HERN	the NFCT
CERTIFIC	CATION STATEMENT	
HEREBY ACKNOWLED	DE AND CERTIFY THAT:	2,
I, I AM ACCOUNTABLE POLICIES, REGULATION THIS PROPOSED DEVE	FOR KNOWING AND COMPLYING WITH THE GOVERNING NG AND SUBMITTAL REQUIREMENTS APPLICABLE TO ELOPMENT;	+
REQUIRED APPROVAL PROJECT, AND THAT F DECISION PROCESS C	D REAGONABLE RESEARCH TO DETERMINE THE 5 AND DECISION PROCESS FOR THE PROPOSED AILURE TO ACCURATELY IDENTIFY AN APPROVAL OR OULD SIGNIFICANTLY DELAY THE PERMITTING IN A CHANGE IN FEEDPOSIT REQUIREMENTS;	
3. I HAVE TAKEN THE PERMIT COMPLETENES FOR PROFESSIONAL (PROFESSIONAL CERTIFICATION FOR DEVELOPMENT IS REVIEW TRAINING AND AM ON THE APPROVED LIST SERTIFICATION;	
4. MAINTAINING MY PR PERMIT COMPLETENES SUBMITTALS ON A CO	ROFESSIONAL CERTIFICATION FOR DEVELOPMENT 35 REVIEW PRIVILEGE REQUIRES ACCURATE NSISTENT BASIS;	STEP IN
5. SUBMITTING INCOMP BASIS MAY RESULT IN CERTIFICATION FOR D	PLETE DOCUMENTS AND PLANS ON A CONSISTENT THE REVOCATION OF MY PROFESSIONAL DEVELOPMENT PERMIT COMPLETENESS REVIEW;	24-51-1-20-1-20-1-20-1-20-1-20-1-20-1-20-1
6. IF REQUIRED DOCUT REVIEW WILL BE DELA	MENTS OR PLAN CONTENT IS MISSING, PROJECT AYED;	AL OF
7. THIS SUBMITTAL PA	CKAGE MEETS ALL OF THE MINIMUM REQUIREMENTS	

THIS SUBMITTAL PACKAGE MEETS ALL OF THE MINIMUM REQUIREMENTS CONTAINED IN LAND DEVELOPMENT MANUAL, VOLUME I, CHAPTER I, SECTION 4, AND/OR SECTION 6 FOR REZONES; AND

8. FOR THE PROPOSED PROJECT, I HAVE DETERMINED THE APPROPRIATE PROCESS AND APPROVAL TYPES TO BE AS FOLLOWS:

PROJECT PROCESS LEVEL (2-5): 2 PROJECT APPROVAL(S) NEEDED: COASTAL DEVELOPMNENT PERMIT

RESPONSIBLE CERTIFIED PROFESSIONAL NAME: TIMOTHY GOLBA

1.2 SIGNATIRE

10-07-20 DATE

Revision 14: Revision 13: Revision 10: Revision 10: Revision 4: Revision 5: Revision 5: Revision 5: Revision 4: Revision 2:

Revision 2 Revision I: 01-04-21

Sheet 2 OF 23

Original Date: 10-07-20

Prepared By: Golba Architecture 1940 Garnet Ave. #100 San Diego, CA 92109 (619) 231-9905 fax: 858-750-3471

Project Address: 4033-4039 LAMONT ST. SAN DIEGO, CA 92109

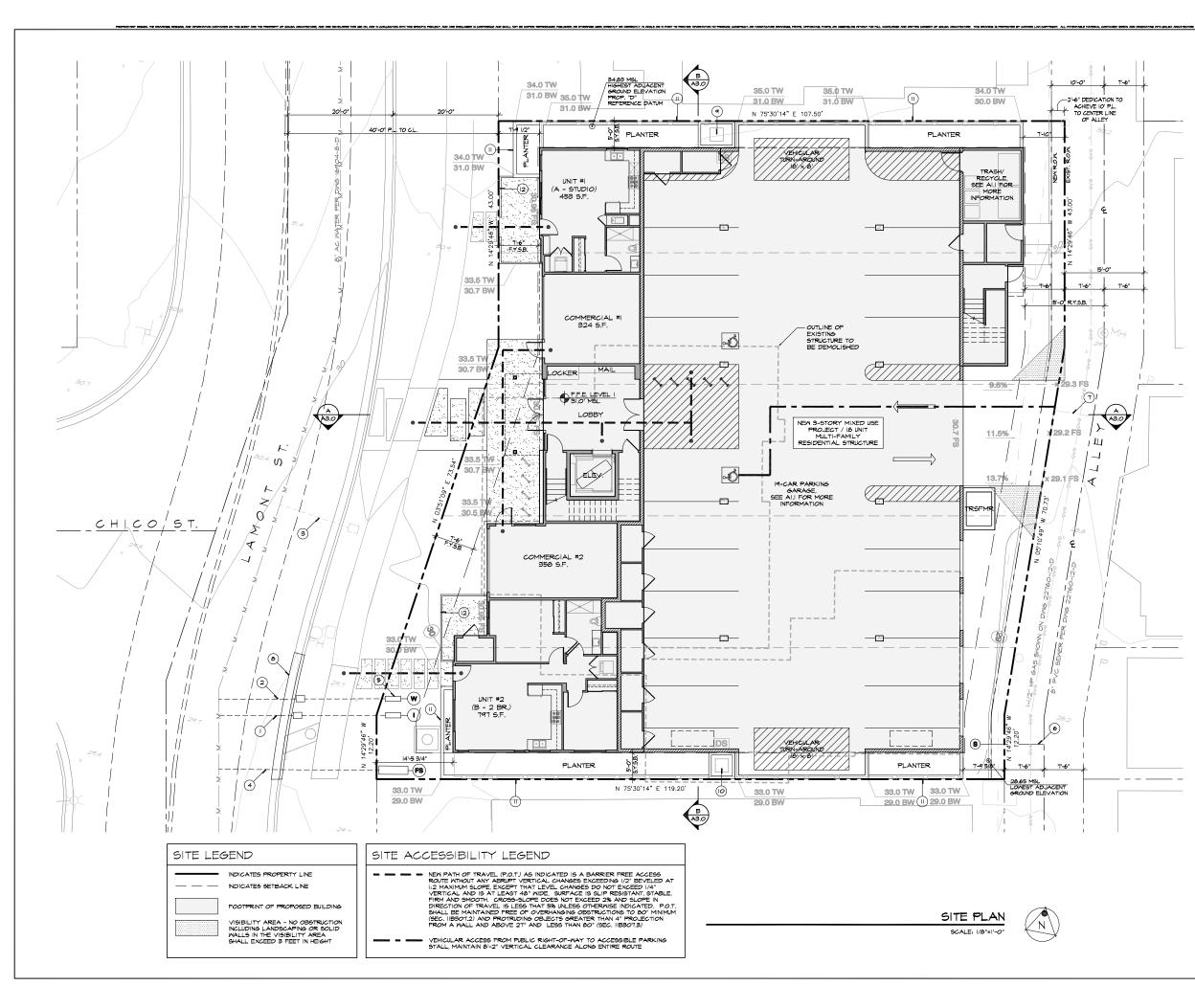
Project Name: the NEST

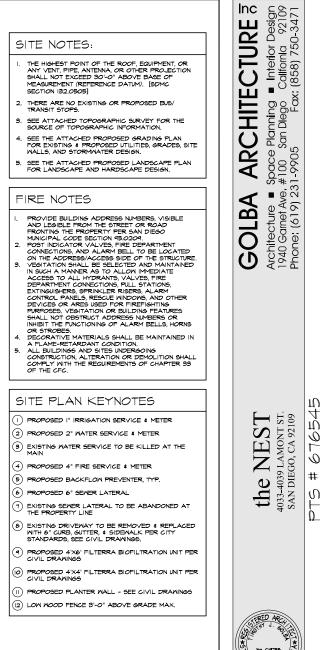
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PROJECT	
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No. CI9738 Ren. 7-31-21

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Á $\langle N \rangle$ SCALE: 1/8"=1'-0"

Prepared By: Golba Architecture 1940 Garnet Ave, #100 San Diego, CA 92109 (619) 231-9905 fax: 858-750-3471

Project Address: 4033-4039 LAMONT ST. SAN DIEGO, CA 92109

Project Name: the NEST

Sheet Title: SITE PLAN

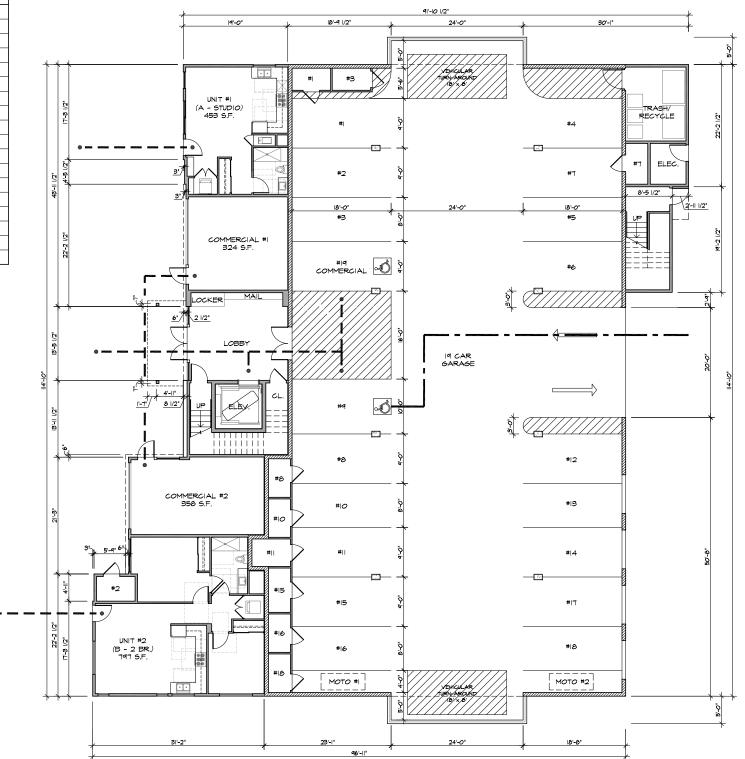
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Revision 3:
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Original Date: 10-07-20
2
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GI No. CI9788 PT. Ron. 7-31-21 OF CAL TO

DWE	LLING UN	NIT TABLE
UNIT #	UNIT TYPE	UNIT AREA (SF)
I.	A - STUDIO	453
2	B - 2 BR.	ТРТ
з	D - 2 BR.	882
4	C - 2 BR.	875
5	C - 2 BR.	875
6	E - 2 BR.	1,136
٦	D.I - 2 BR.	882
8	D - 2 BR.	882
٩	D.3 - 2 BR.	878
0	D.2 - 2 BR.	882
П	D - 2 BR.	882
12	C - 2 BR.	875
13	C - 2 BR.	875
14	E - 2 BR.	1,136
15	D.I - 2 BR.	882
16	D - 2 BR.	882
17	10.3 - 2 BR.	878
18	D.2 - 2 BR.	882



FIRST FLOOR PLAN SCALE: 1/8"=1'-0"



Sheet Title: FIRST FLOOR PLAN

Project Name: the NEST

Project Address: 4033-4039 LAMONT ST. SAN DIEGO, CA 92109

Prepared By: Golba Architecture 1940 Garnet Ave, #100 San Diego, CA 92109 (619) 231-9905 fax: 858-750-3471

SCALE: 1/8"=1'-0"



ure shall be the property of Bolisa Architecture. Any use of Haterial Shall be Subject to R

FLOOR PLAN NOTES:

FLOOR PLAN LEGEND

2× WOOD STUD WALL

CONCRETE OR CMU WALL

LOW WALL, 42" A.F.F. (U.N.O.)

SITE ACCESSIBILITY LEGEND

- NEW PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER FREE ACCESS ROUTE WINDUT ANY ARRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEYEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND IS AT LEAST 40" WIDE SURFACE IS SLIP RESISTANT, STABLE, FIRM AND SMOOTH. CROSS-6LOPE DOES NOT EXCEED 2% AND SLOPE IN DIRECTION OF TRAVEL IS LESS THAT 5% UNLESS OTHERWISE INDICATED, P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBJECTS ONE FROM A VALL AND ABOVE 21" AND LESS THAN &0" (SEC. IBSOT.)

VEHICULAR ACCESS FROM PUBLIC RIGHT-OF-WAY TO ACCESSIBLE PARKING STALL, MAINTAIN &'-2" VERTICAL CLEARANCE ALONG ENTIRE ROUTE

---- LINE OF BUILDING ABOVE

. THE PROPOSED MULTI-FAMILY & PARKING GARAGE SYRUCTURE SHALL BE PROTECTED BY AN AUTOMATIC FIRE SPRINKLER SYSTEM, CONNECTED & INSTALLED IN ACCORDANCE WITH, A FIRE SPRINKLER SYSTEM THAT COMPLIES WITH, SECTION R3IB OR NFPA ISD.

2. THRESHOLDS AT DOORMAYS SHALL NOT EXCEED 0.75-INCH IN HEIGHT FOR SLIDING DOORS SERVING DWELLING UNITS OR 0.5-INCH FOR OTHER DOORS.

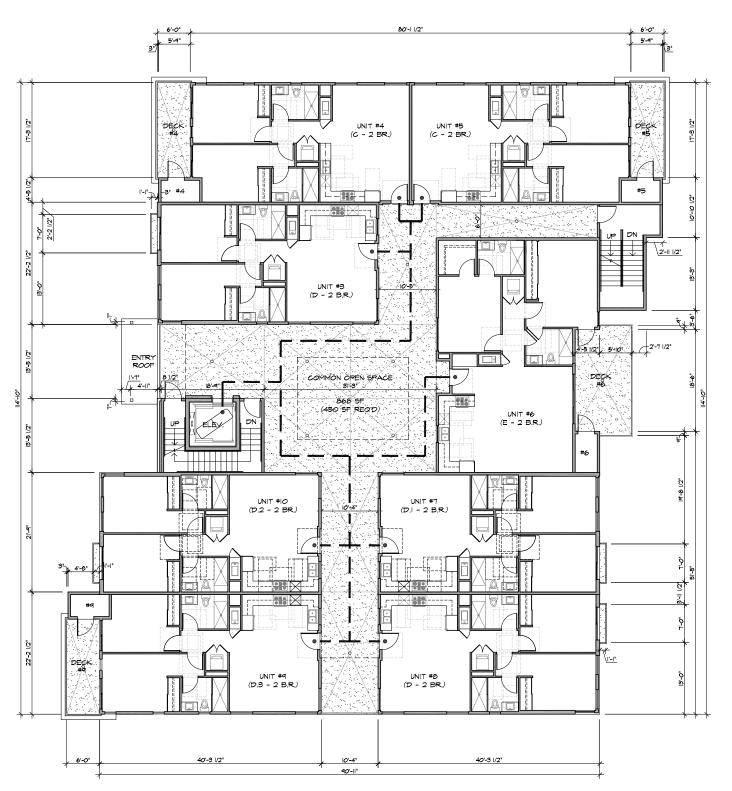
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		the NIECT	GOLBA ARCHITECTURE ह
	Correso Correso	ULC LNLンJ I 4033-4039 LAMONT ST. SAN DIEGO, CA 92109	Architecture Space Planning Interior Design 1940 Gamet Ave. #100 San Diego California 92109 Phone: (619) 231-9905 Fax: (858) 750-3471
2		PTS # 010545	

A/I/I

DWE	LLING UN	NIT TABLE
UNIT #	UNIT TYPE	UNIT AREA (SF)
I	A - STUDIO	453
2	B - 2 BR.	тет
з	D - 2 BR.	882
4	C - 2 BR.	875
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8	D - 2 BR.	882
٩	D.3 - 2 BR.	878
0	D.2 - 2 BR.	882
Ш	D - 2 BR.	882
12	C - 2 BR.	875
13	C - 2 BR.	875
14	E - 2 BR.	1,136
15	D.I - 2 BR.	882
16	D - 2 BR.	882
17	D.3 - 2 BR.	878
18	D.2 - 2 BR.	882



SECOND FLOOR PLAN SCALE: 1/8"=1'-0"



Sheet Title:		
SECOND	FLOOR	PLAN

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Revision I: 01-04-21
Original Date: 10-07-20

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SCALE: I	/8"=1'-0"

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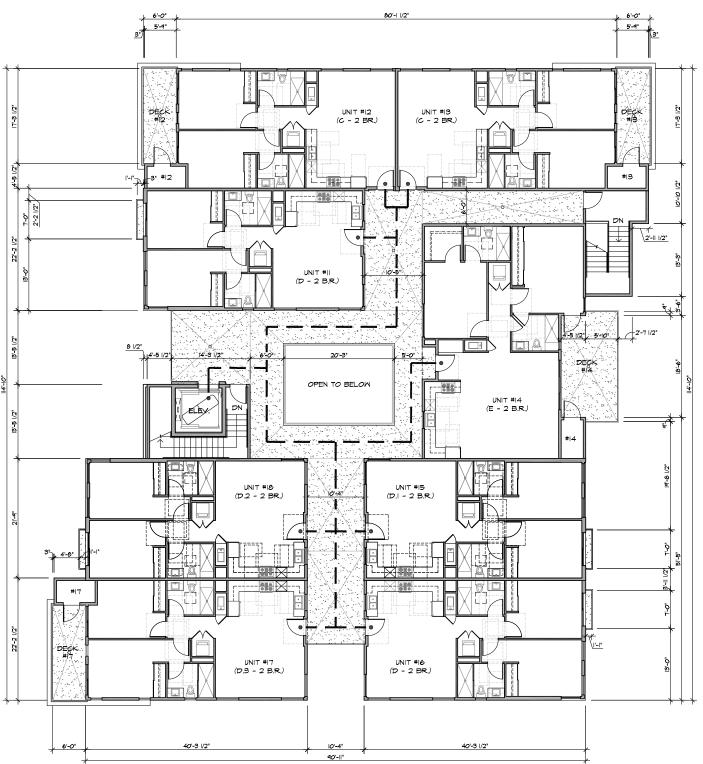
Project Name: the NEST

 THE PROPOSED MULTI-FAMILY & PARKING GARAGE SYRUCTURE SHALL BE PROTECTED BY AN AUTOMATIC FIRE SPRINLER SYSTEM, CONNECTED & INSTALLED IN ACCORDANCE WITH, A FIRE SPRINLER SYSTEM THAT COMPLIES WITH, SECTION REIS OR NFA IBD. THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 0.75-INCH IN HEIGHT FOR SLIDING DOORS SERVING DIRELLING UNITS OR 0.5-INCH FOR OTHER DOORS.
FLOOR PLAN LEGEND
2x WOOD STUD WALL
CONCRETE OR CMU WALL
LON WALL, 42" A.F.F. (U.N.O.)
LINE OF BUILDING ABOVE
SITE ACCESSIBILITY LEGEND
NEW PATH OF TRAVEL (P.O.T.) AS
INDICATED IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUET VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VIERTICAL AND IS AT LEAST 40" MIDE, SURFACE IS SLIP REGISTANT, STABLE, FIRM AND SMOOTH, CROSS-SLOPE DOES NOT EXCEED 28, AND SLOPE IN DIRECTION OF TRAVEL IS LESS THAT 5% UNLESS OTHERWISE INDICATED, P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (SEC, IIB307.2) AND PROTRUDING OBLECTS OREATER THAN 4" PROJECTION FROM A WALL AND ABOVE 21" AND LESS THAN 80" (SEC, IIB307.3) VEHICULAR ACCESS FROM PUBLIC RIGHT-OF-WAY TO ACCESSIBLE PARKING STALL, MAINTAIN 6-2" VERTICAL CLEARANCE ALONG ENTIRE ROUTE

FLOOR PLAN NOTES:



DWE	LLING UN	NIT TABLE			
UNIT #	UNIT TYPE	UNIT AREA (SF)			
I.	A - STUDIO	453			
2	B - 2 BR.	гет			
з	D - 2 BR.	882			
4	C - 2 BR.	875			
5	C - 2 BR.	875	د ا	\uparrow	,
6	E - 2 BR.	1,136			
٦	D.I - 2 BR.	882		1	
8	D - 2 BR.	882		11-3 1/2	
٩	D.3 - 2 BR.	878			
0	17.2 - 2 BR.	882			
П	D - 2 BR.	882		4.	
12	C - 2 BR.	875		-5 1/2"	
B	C - 2 BR.	875		4	
14	E - 2 BR.	1,136			1 N
15	D.I - 2 BR.	882			7'-O" 2'-2 1/2"
16	D - 2 BR.	882			
17	D.3 - 2 BR.	878		22'-2 /2"	
18	D.2 - 2 BR.	882		ลิ	ō



THIRD FLOOR PLAN SCALE: 1/8"=1"-0"



Sheet Title: THIRD FLOOR PLAN

Project Name: the NEST

Project Address: 4033-4039 LAMONT ST. SAN DIEGO, CA 92109

Prepared By: Golba Architecture 1940 Garnet Ave, #100 San Diego, CA 92109 (619) 231-9905 fax: 858-750-3471



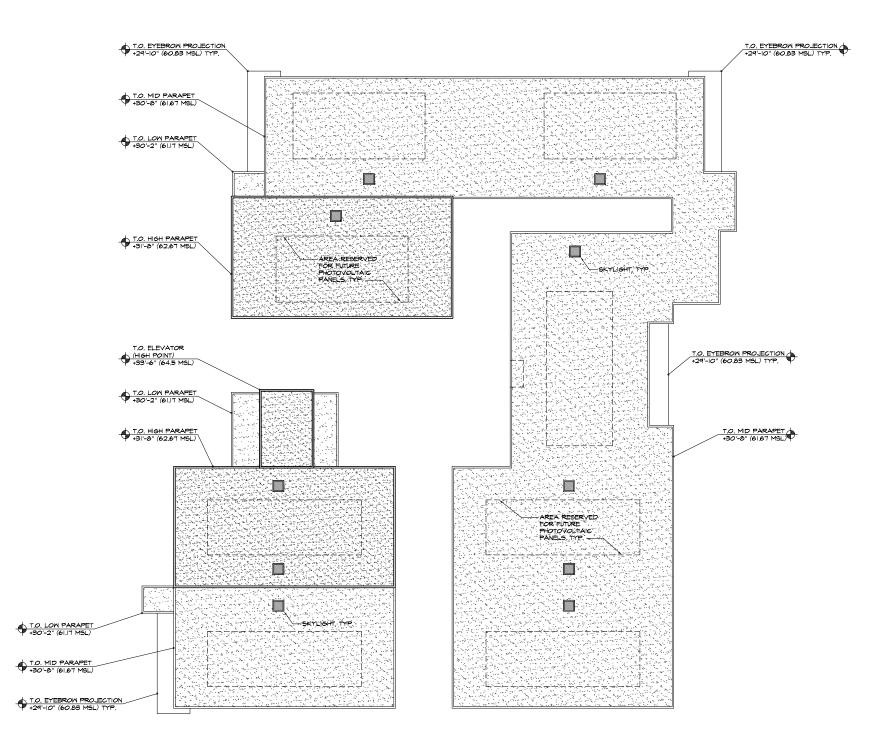
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FLOOR PLAN NOTES:
I. THE PROPOSED MULTI-FAMILY & PARKING GARAGE SYRUCTURE SHALL BE PROTECTED BY AN AUTOMATIC FIRE SPRINKLER SYSTEM, CONNECTED & INSTALLED IN ACCORDANCE WITH, A FIRE SPRINKLER SYSTEM THAT COMPLIES WITH, SECTION R3IB OR NFPA I3D.
2. THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 0.75-INCH IN HEIGHT FOR SLIDING DOORS SERVING DWELLING UNITS OR 0.5-INCH FOR OTHER DOORS.
FLOOR PLAN LEGEND
2x WOOD STUD WALL
[2222222222] CONCRETE OR CMU WALL
LOW MALL, 42" A.F.F. (U.N.O.)
LINE OF BUILDING ABOVE
SITE ACCESSIBILITY LEGEND
 NEW PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING I/2" BEVELED AT I.2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED I/4" VERTICAL AND IS AT LEAST 40" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM AND SMOOTH. CROSS-SLOPE DOES NOT EXCEED 28 AND SLOPE IN DIRECTION OF TRAVEL IS LESS THAT 58 UNLESS OTHERVISE INDICATED. P.O.T. SHALL BE MAINTAINED TREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (SEC. IIB307.3)
VEHICULAR ACCESS FROM PUBLIC RIGHT-OF-MAY TO ACCESSIBLE PARKING STALL, MAINTAIN 8'-2" VERTICAL CLEARANCE ALONG ENTIRE ROUTE





ROOF PLAN SCALE: 1/8"=1'-0"

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Sheet Title: ROOF PLAN

Project Name: the NEST

4033-4039 LAMONT ST. SAN DIEGO, CA 92109

Project Address:

Prepared By: Golba Architecture 1940 Garnet Ave, #100 San Diego, CA 92109 (619) 231-9905 fax: 858-750-3471



NOTE: THE HIGHEST POINT OF THE ROOF, EQUIPMENT, OR ANY VENT, PIPE, ANTENNA, OR OTHER PROJECTION SHALL NOT EXCEED 30-0" ABOVE BASE OF MEASUREMENT (REFERENCE DATUM). [SDMC SECTION 132.0505]

NOTE: ROOF DRAINAGE TO BE COLLECTED & DIRECTED TO A FILTERRA BIOFILTRATION UNIT. SEE ATTACHED CIVIL DRAWINGS FOR MORE INFORMATION.

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GOLBA ARCHITECTURE Architecture - Space Planning - Interior Design 1940 Gamet Ave. #100 San Diego California 92109 Phone: (619) 231-9905 Fax: (858) 750-3471 PTS # 010545 the NEST 4033-4039 LAMONT ST. SAN DIEGO, CA 92109 STERED ARCHITECT No. CI4788 PT. Ron. 7-31-21 OF CAL IO

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WEST (FRONT) ELEVATION

SCALE: 1/8"=1'-0"



EAST (BACK YARD) ELEVATION

SCALE: 1/8"=1'-0"

Sheet Title: EXTERIOR ELEVATIONS

Project Name: the NEST

4033-4039 LAMONT ST. SAN DIEGO, CA 92109

Project Address:

Prepared By: Golba Architecture 1940 Garnet Ave, #100 San Diego, CA 92109 (619) 231-9905 fax: 858-750-3471

SCALE: 1/8"=1'-0"

MATERIAL LEGEND

STUCCO W/ 'SENERGY' COATING, COLOR #I TBD.

STUCCO W/ 'SENERGY' COATING, COLOR #2 TBD.

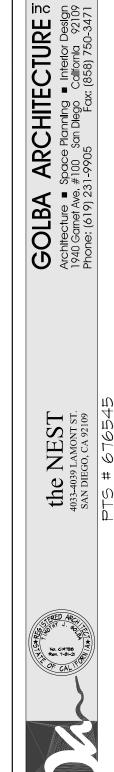
PORCELAIN WOOD-LOOK TILE W GROUT SEALER

STONE VENEER PER OWNER APPROVAL.

LASER OUT DECORATIVE METAL PANELS. PATTERN PER OWNER APPROVAL.

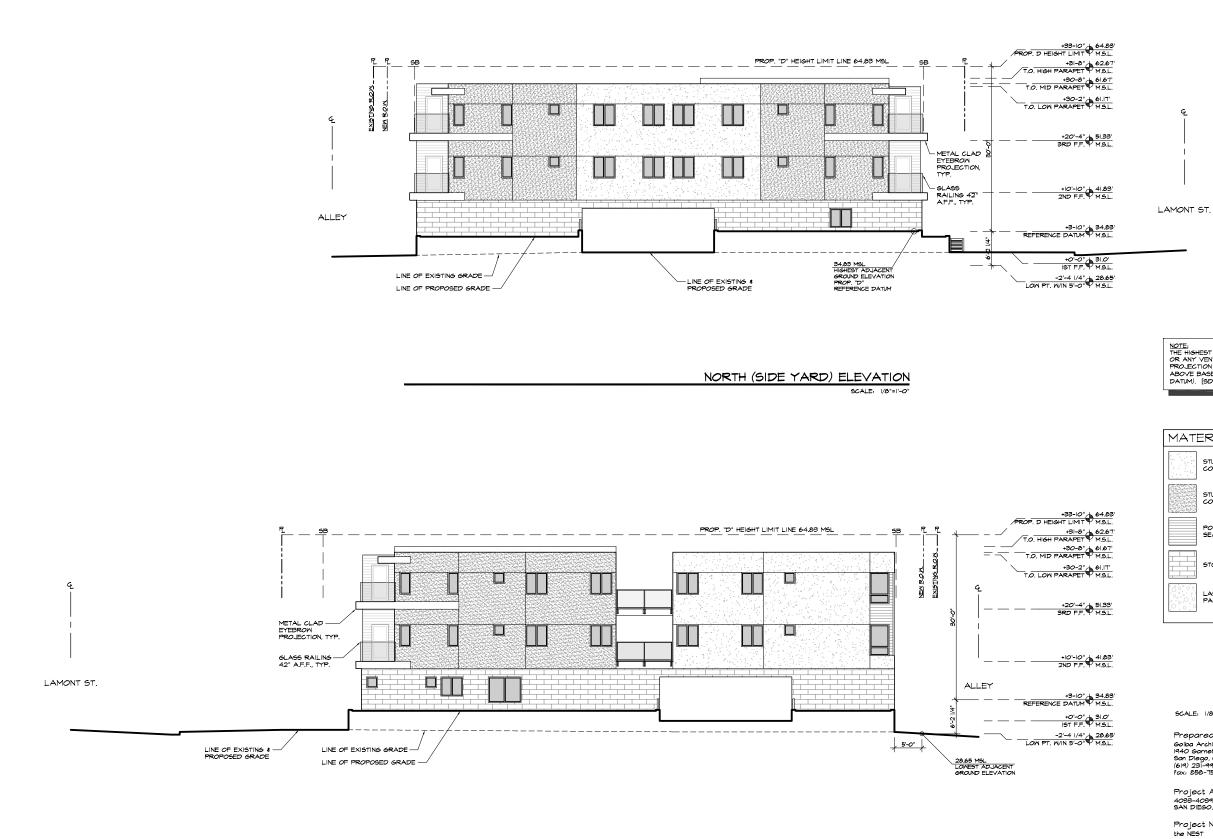
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SOUTH (SIDE YARD) ELEVATION SCALE: 1/8"=1'-0"

Sheet Title: EXTERIOR ELEVATIONS

Project Name: the NEST

Project Address: 4033-4039 LAMONT ST. SAN DIEGO, CA 92109

Revision 14: Revision 13: Revision 12: Revision 11: Revision 0: Revision 8: Revision 8: Revision 6: Revision 5: Revision 5: Revision 4: Revision 3: Revision 1: 01-04-21

Original Date: 10-07-20

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Prepared By: Golba Architecture 1940 Garnet Ave, #100 San Diego, CA 92109 (619) 231-9905 fax: 858-750-3471

SCALE: 1/8"=1'-0"

PORCELAIN WOOD-LOOK TILE W/ GROUT SEALER STONE VENEER PER OWNER APPROVAL. LASER CUT DECORATIVE METAL PANELS. PATTERN PER OWNER APPROVAL.

STUCCO W/ 'SENERGY' COATING, COLOR #2 TBD.

NOTE: THE HIGHEST POINT OF THE ROOF, EQUIPMENT, OR ANY VENT, PIPE, ANTENNA, OR OTHER PROJECTION SHALL NOT EXCEED 30'-0" ABOVE BASE OF MEASUREMENT (REFERENCE DATUM). (SDMC SECTION 132.0505)

MATERIAL LEGEND

GOLBA ARCHITECTURE F Architecture - Space Planning - Interior Design 1940 Gamet Ave. #100 San Dlego California 92109 Phone: (619) 231-9905 Fax: (858) 750-3471

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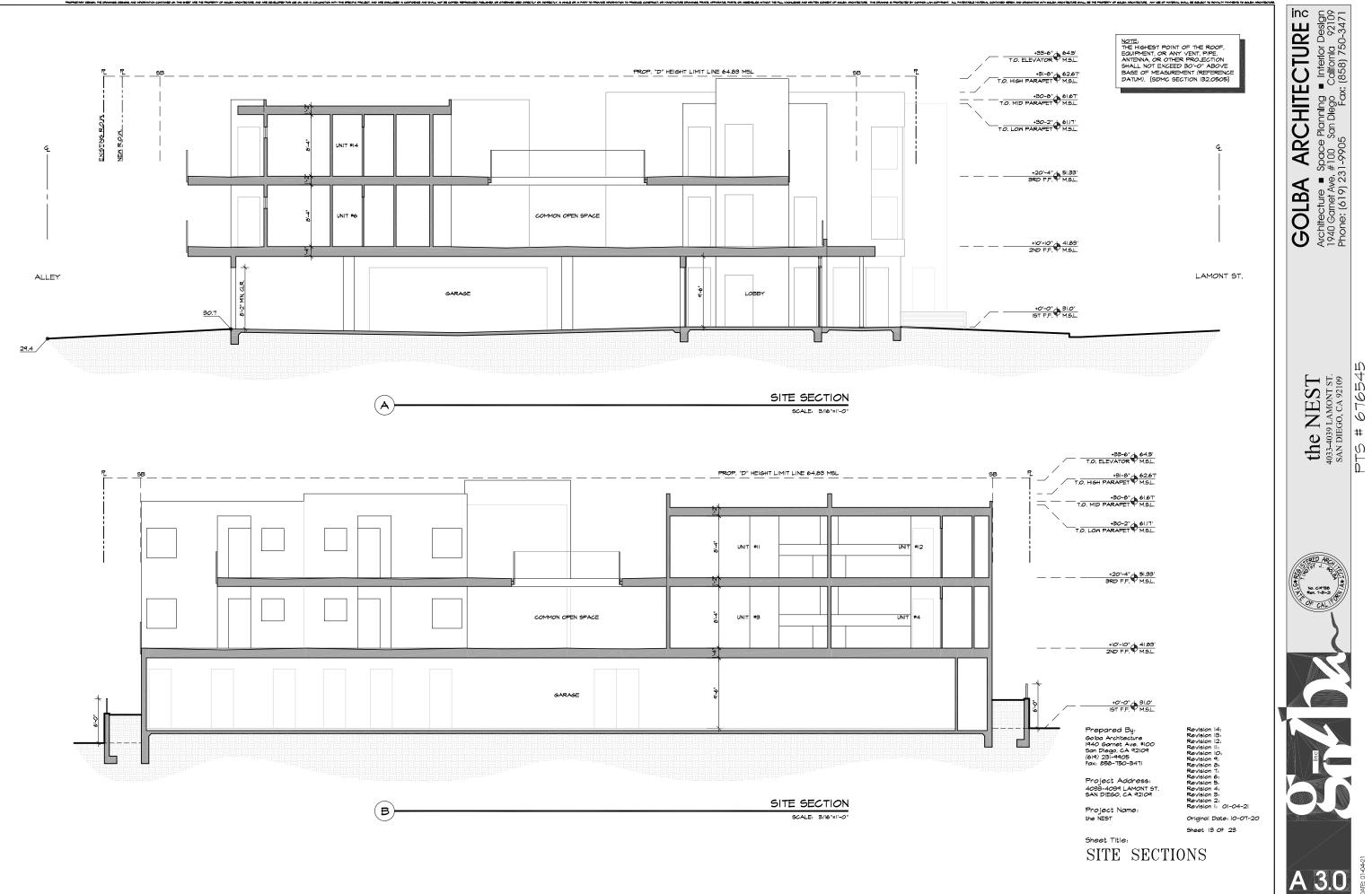
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the NEST 4033-4039 LAMONT ST. SAN DIEGO, CA 92109

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STUCCO W/ 'SENERGY' COATING, COLOR #I TBD.







Appendix B Applicable Noise Regulations



- NE-A.2. Assure the appropriateness of proposed developments relative to existing and future noise levels by consulting the guidelines for noise-compatible land use (shown on Table NE-3) to minimize the effects on noise-sensitive land uses.
- NE-A.3. Limit future residential and other noise-sensitive land uses in areas exposed to high levels of noise.
- NE-A.4. Require an acoustical study consistent with Acoustical Study Guidelines (Table NE-4) for proposed developments in areas where the existing or future noise level exceeds or would exceed the "compatible" noise level thresholds as indicated on the Land Use Noise Compatibility Guidelines (Table NE-3), so that noise mitigation measures can be included in the project design to meet the noise guidelines.
- NE-A.5. Prepare noise studies to address existing and future noise levels from noise sources that are specific to a community when updating community plans.

Land Use Category		Exterior Noise Exposure (dBA CNEL)			
	6	06	5 70) 7	5
Parks and Recreational			, ,		
Parks, Active and Passive Recreation					
Outdoor Spectator Sports, Golf Courses; Water Recreational Facilities; Indoor Recreation Facilities					
Agricultural					
Crop Raising & Farming; Community Gardens, Aquaculture, Dairies; Horticulture Nurseries & Greenhouses; Animal Raising, Maintain & Keeping; Commercial Stables					
Residential			,		
Single Dwelling Units; Mobile Homes		45			
Multiple Dwelling Units *For uses affected by aircraft noise, refer to Policies NE-D.2. & NE-D.3.		45	45*		
Institutional			·		
Hospitals; Nursing Facilities; Intermediate Care Facilities; Kindergarten through Grade 12Educational Facilities; Libraries; Museums; Child Care Facilities		45			
Other Educational Facilities including Vocational/Trade Schools and Colleges and Universities		45	45		
Cemeteries					
Retail Sales			,		
Building Supplies/Equipment; Food, Beverages & Groceries; Pets & Pet Supplies; Sundries, Pharmaceutical, & Convenience Sales; Wearing Apparel & Accessories			50	50	

TABLE NE-3 Land Use - Noise Compatibility Guidelines







Land Use	Category			Ex		Noise BA CN	Exposure EL)
	<u>-</u> ,			6) 65	5 70	75
Commercial	Services						
Maintenance	& Repair; Personal	Services; Assem	rinking; Financial Institutions; hbly & Entertainment (includes public and Golf Course Support			50	50
Visitor Acco	mmodations				45	45	45
Offices							
Business & H Corporate He		nment; Medical, l	Dental & Health Practitioner; Regional &			50	50
Vehicle and	Vehicular Equipmen	nt Sales and Serve	ices Use				
			enance; Commercial or Personal Vehicle Sales & Rentals; Vehicle Parking				
Wholesale, L	Distribution, Storage	e Use Category					
Equipment & Wholesale D		Yards; Moving &	& Storage Facilities; Warehouse;				
Industrial							
	facturing; Light Ma Iining & Extractive		ine Industry; Trucking & Transportation				
Research & I	Development						50
	Compatible	Indoor Uses	Standard construction methods should att acceptable indoor noise level. Refer to Se			or noise	e to an
	Compatible	Outdoor Uses	Activities associated with the land use ma	ay be c	arried	out.	
45, 50	Conditionally	Indoor Uses	Building structure must attenuate exterior indicated by the number (45 or 50) for our				
40,00	Compatible	Outdoor Uses	Feasible noise mitigation techniques show make the outdoor activities acceptable. R				ncorporated
	Tra a a mar - 49-1	Indoor Uses	New construction should not be undertak	en.			
	Incompatible	Outdoor Uses	Severe noise interference makes outdoor	activit	ies una	cceptał	ole.

Article 9.5: Noise Abatement and Control

Division 4: Limits

("Noise Level Limits, Standards and Control" added 9–18–1973 by O–11122 N.S.) (Retitled to "Limits" on 9–22–1976 by O–11916 N.S.)

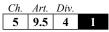
§59.5.0401 Sound Level Limits

(a) It shall be unlawful for any person to cause noise by any means to the extent that the one-hour average sound level exceeds the applicable limit given in the following table, at any location in the City of San Diego on or beyond the boundaries of the property on which the noise is produced. The noise subject to these limits is that part of the total noise at the specified location that is due solely to the action of said person.

Land Use	Time of Day	One-Hour Average Sound Level (decibels)
1. Single Family Residential	7 a.m. to 7 p.m. 7 p.m. to 10 p.m. 10 p.m. to 7 a.m.	50 45 40
2. Multi-Family Residential (Up to a maximum density of 1/2000)	7 a.m. to 7 p.m. 7 p.m. to 10 p.m. 10 p.m. to 7 a.m.	55 50 45
3. All other Residential	7 a.m. to 7 p.m. 7 p.m. to 10 p.m. 10 p.m. to 7 a.m.	60 55 50
4. Commercial	7 a.m. to 7 p.m. 7 p.m. to 10 p.m. 10 p.m. to 7 a.m.	65 60 60
5. Industrial or Agricultural	any time	75

TABLE OF APPLICABLE LIMITS

(b) The sound level limit at a location on a boundary between two zoning districts is the arithmetic mean of the respective limits for the two districts.
 Permissible construction noise level limits shall be governed by Sections 59.5.0404 of this article.



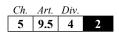
- (c) Fixed-location public utility distribution or transmission facilities located on or adjacent to a property line shall be subject to the noise level limits of Part A. of this section, measured at or beyond six feet from the boundary of the easement upon which the equipment is located.
- (d) This section does not apply to firework displays authorized by permit from the Fire Department.
- (e) This section does not apply to noise generated by helicopters at heliports or helistops authorized by a conditional use permit, nor to any roller coaster operated on City–owned parkland.

(Amended 9–11–1989 by O–17337 N.S.) (Amended 11-28-2005 by O-19446 N.S.; effective 2-9-2006.)

§59.5.0402 Motor Vehicles

- (a) Off–Highway
 - (1) Except as otherwise provided for in this article, it shall be unlawful to operate any motor vehicle of any type on any site, other than on a public street or highway as defined in the California Vehicle Code, in any manner so as to cause noise in excess of those noise levels permitted for on- highway motor vehicles as specified in the table for "45 mile- per-hour or less speed limits" contained in Section 23130 of the California Vehicle Code, and as corrected for distances set forth in subsection A.2. below.
 - (2) Corrections

The maximum noise level as the off-highway vehicle passes may be measured at a distance of other than fifty (50) feet from the center line of travel, provided the measurement is further adjusted by adding algebraically the applicable correction as follows:



Distance (Feet)	Correction (decibels)
25	-6
28	-5
32	-4
35	-3
40	-2
45	-1
50 (preferred distance)	0
56	+1
63	+2
70	+3
80	+4
90	+5
100	+6

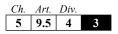
- (3) A measured noise level thus corrected shall be deemed in violation of this section if it exceeds the applicable noise–level limit as specified above.
- (b) Nothing in this section shall apply to authorized emergency vehicles when being used in emergency situations, including the blowing of sirens and/or horns.

("Motor Vehicles" renumbered from Sec. 59.5.0403 on 9–22–1976 by O–11916 N.S.)

§59.5.0403 Watercraft

Violations for excessive noise of watercraft operating in waters under the jurisdiction of The City of San Diego shall be prosecuted under applicable provisions of the California Harbors and Navigation Code. Permits issued by The City of San Diego for the operation of watercraft not in compliance with noise criteria of the Harbors and Navigation Code shall be reviewed and approved by the Administrator prior to issuance.

("Watercraft" renumbered from Sec. 59.5.0407 and amended 9–22–1976 by O-11916 N.S.)



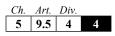
§59.5.0404 Construction Noise

- It shall be unlawful for any person, between the hours of 7:00 p.m. of any day (a) and 7:00 a.m. of the following day, or on legal holidays as specified in Section 21.0104 of the San Diego Municipal Code, with exception of Columbus Day and Washington's Birthday, or on Sundays, to erect, construct, demolish, excavate for, alter or repair any building or structure in such a manner as to create disturbing, excessive or offensive noise unless a permit has been applied for and granted beforehand by the Noise Abatement and Control Administrator. In granting such permit, the Administrator shall consider whether the construction noise in the vicinity of the proposed work site would be less objectionable at night than during the daytime because of different population densities or different neighboring activities; whether obstruction and interference with traffic particularly on streets of major importance, would be less objectionable at night than during the daytime; whether the type of work to be performed emits noises at such a low level as to not cause significant disturbances in the vicinity of the work site; the character and nature of the neighborhood of the proposed work site; whether great economic hardship would occur if the work were spread over a longer time; whether proposed night work is in the general public interest; and he shall prescribe such conditions, working times, types of construction equipment to be used, and permissible noise levels as he deems to be required in the public interest.
- (b) Except as provided in subsection C. hereof, it shall be unlawful for any person, including The City of San Diego, to conduct any construction activity so as to cause, at or beyond the property lines of any property zoned residential, an average sound level greater than 75 decibels during the 12–hour period from 7:00 a.m. to 7:00 p.m.
- (c) The provisions of subsection B. of this section shall not apply to construction equipment used in connection with emergency work, provided the Administrator is notified within 48 hours after commencement of work.

(Amended 1–3–1984 by O–16100 N.S.) (Amended 8-9-2019 by O-21114 N.S.; effective 9-8-2019.)

[Editors Note: Amendments as adopted by O-21114 N.S. will not apply within the Coastal Overlay Zone until the California Coastal Commission certifies it as a Local Coastal Program Amendment.

Click the link to view the Strikeout Ordinance highlighting changes to prior language http://docs.sandiego.gov/municode_strikeout_ord/O-21114-SO.pdf]

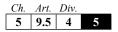


§59.5.0406 Refuse Vehicles and Parking Lot Sweepers

No person shall operate or permit to be operated a refuse compacting, processing, or collection vehicle between the hours of 7:00 p.m. to 6:00 a.m. or a parking lot sweeper between the hours of 7:00 p.m. to 7:00 a.m. in any residential area unless a permit has been applied for and granted by the Administrator. *("Refuse Vehicles" added 9–18–1973 by O–11122 N.S.; amended 9–22–1976 by*

("Refuse Vehicles" added 9–18–19/3 by O–11122 N.S.; amended 9–22–19/6 by O–11916 N.S.)

(Amended 6-9-2010 by O-19960 N.S.; effective 7-9-2010.)





Appendix C

CadnaA Analysis Data and Results

Eilar Associates, Inc.

210 South Juniper Street, Suite 100 Escondido, California 92025-4230 Phone: (760) 738-5570 Date: 11 Feb 2021

Calculation Configuration

Configuration	
Parameter	Value
General	Value
Country	(user defined)
Max. Error (dB)	0.00
Max. Search Radius (#(Unit,LEN))	2000.00
Min. Dist Src to Rcvr	0.00
Partition	0.00
Raster Factor	0.50
Max. Length of Section (#(Unit,LEN))	1000.00
Min. Length of Section (#(Unit,LEN))	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	960.00
Reference Time Night (min)	480.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	6.00
Night-time Penalty (dB)	10.00
DTM	
Standard Height (m)	0.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	0
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rvcr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	Excl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (#(Unit,TEMP))	10
rel. Humidity (%)	70
Ground Absorption G	0.40
Wind Speed for Dir. (#(Unit,SPEED))	3.0
Roads (TNM)	
Railways (Schall 03 (1990))	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	

Receivers

Name	M.	ID	Leve	el Lr	Limit.	Value		Land	d Use	Height		Coordinates					
			Day	Night	Day	Night	Туре	Auto	Noise Type			Х	Y	Z			
			(dBA)	(dBA)	(dBA)	(dBA)				(ft)		(ft)	(ft)	(ft)			
NML			57.6	-66.1	57.1	0.0				5.00	r	544.64	369.55	5.00			

Roads

Name	M.	ID		Lme		Cou	Count Data exact Cour				nt Data	l	Speed Limit		SCS	Surface		Gradient	Mult	. Reflec	ction	
			Day	Evening	Night	DTV	Str.class.		М			p (%)		Auto	Truck	Dist.	Dstro	Туре		Drefl	Hbuild	Dist.
			(dBA)	(dBA)	(dBA)			Day	Evening	Night	Day	Evening	Night	(mph)	(mph)		(dB)		(%)	(dB)	(ft)	(ft)
Lamont Street	t		53.6	0.0	0.0			288.0	0.0	0.0	2.8	0.0	0.0	30		3.66	0.0	1	0.0	0.0		

Geometry - Roads

Name	F	lei	ght		Coordinat	es		Dist	LSlope
	Begin		End	x	у	Z	Ground	(ft)	(%)
	(ft)		(ft)	(ft)	(ft)	(ft)	(ft)		
Lamont Street	0.00	r		433.60	666.01	0.00	0.00		
				486.37	466.13	0.00	0.00		
				517.72	344.87	0.00	0.00		
				521.86	320.41	0.00	0.00		
				523.23	302.15	0.00	0.00		
				522.55	256.68	0.00	0.00		
				523.23	243.59	0.00	0.00		
				524.88	228.00	0.00	0.00		
				528.24	213.57	0.00	0.00		
				578.54	16.86	0.00	0.00		

Eilar Associates, Inc.

210 South Juniper Street, Suite 100 Escondido, California 92025-4230 Phone: (760) 738-5570 Date: 11 Feb 2021

Calculation Configuration

Configuration	
Parameter	Value
General	Value
Country	(user defined)
Max. Error (dB)	0.00
Max. Search Radius (#(Unit,LEN))	2000.00
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (#(Unit,LEN))	1000.00
Min. Length of Section (#(Unit,LEN))	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	-
Reference Time Day (min)	960.00
Reference Time Night (min)	480.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	6.00
Night-time Penalty (dB)	10.00
DTM	
Standard Height (m)	0.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	0
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rvcr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	Excl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (#(Unit,TEMP))	10
rel. Humidity (%)	70
Ground Absorption G	0.40
Wind Speed for Dir. (#(Unit,SPEED))	3.0
Roads (TNM)	
Railways (Schall 03 (1990))	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	

Roads

Name	M.	ID		Lme		Count Data exact Count				nt Data	nt Data			Speed Limit		Surface		Gradient	Mult	. Reflec	ction	
			Day	Evening	Night	DTV	Str.class.		М			p (%)		Auto	Truck	Dist.	Dstro	Туре		Drefl	Hbuild	Dist.
			(dBA)	(dBA)	(dBA)			Day	Evening	Night	Day	Evening	Night	(mph)	(mph)		(dB)		(%)	(dB)	(ft)	(ft)
Lamont Street			56.2	0.0	0.0			561.0	0.0	0.0	1.0	0.0	0.0	30		3.66	0.0	1	0.0	0.0		

Geometry - Roads

Name	F	lei	ght		Coordinat	es		Dist	LSlope
	Begin		End	x	у	Z	Ground	(ft)	(%)
	(ft)		(ft)	(ft)	(ft)	(ft)	(ft)		
Lamont Street	0.00	r		433.60	666.01	0.00	0.00		
				486.37	466.13	0.00	0.00		
				517.72	344.87	0.00	0.00		
				521.86	320.41	0.00	0.00		
				523.23	302.15	0.00	0.00		
				522.55	256.68	0.00	0.00		
				523.23	243.59	0.00	0.00		
				524.88	228.00	0.00	0.00		
				528.24	213.57	0.00	0.00		
				578.54	16.86	0.00	0.00		

Eilar Associates, Inc.

210 South Juniper Street, Suite 100 Escondido, California 92025-4230 Phone: (760) 738-5570 Date: 11 Feb 2021

Calculation Configuration

Configuration	
Parameter	Value
General	
Country	(user defined)
Max. Error (dB)	0.00
Max. Search Radius (#(Unit,LEN))	2000.00
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (#(Unit,LEN))	1000.00
Min. Length of Section (#(Unit,LEN))	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	960.00
Reference Time Night (min)	480.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	6.00
Night-time Penalty (dB)	10.00
DTM	
Standard Height (m)	0.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	0
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rvcr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	Excl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (#(Unit,TEMP))	10
rel. Humidity (%)	70
Ground Absorption G	0.40
Wind Speed for Dir. (#(Unit,SPEED))	3.0
Roads (TNM)	
Railways (Schall 03 (1990))	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	

Roads

Name	M.	ID		Lme		Cou	unt Data exact Cou				nt Data	I	Speed Limit		SCS	Surface		Gradient	Mult	. Reflec	tion	
			Day	Evening	Night	DTV	Str.class.		М			p (%)		Auto	Truck	Dist.	Dstro	Туре		Drefl	Hbuild	Dist.
			(dBA)	(dBA)	(dBA)			Day	Evening	Night	Day	Evening	Night	(mph)	(mph)		(dB)		(%)	(dB)	(ft)	(ft)
Lamont Street	t		57.4	0.0	0.0			745.0	0.0	0.0	1.0	0.0	0.0	30		3.66	0.0	1	0.0	0.0		

Geometry - Roads

Name	F	lei	ght		Coordinat	es		Dist	LSlope
	Begin		End	x	у	Z	Ground	(ft)	(%)
	(ft)		(ft)	(ft)	(ft)	(ft)	(ft)		
Lamont Street	0.00	r		433.60	666.01	0.00	0.00		
				486.37	466.13	0.00	0.00		
				517.72	344.87	0.00	0.00		
				521.86	320.41	0.00	0.00		
				523.23	302.15	0.00	0.00		
				522.55	256.68	0.00	0.00		
				523.23	243.59	0.00	0.00		
				524.88	228.00	0.00	0.00		
				528.24	213.57	0.00	0.00		
				578.54	16.86	0.00	0.00		

Eilar Associates, Inc.

210 South Juniper Street, Suite 100 Escondido, California 92025-4230 Phone: (760) 738-5570 Date: 11 Feb 2021

Calculation Configuration

Configuration	
Parameter	Value
General	Value
Country	(user defined)
Max. Error (dB)	0.00
Max. Search Radius (#(Unit,LEN))	2000.00
Min. Dist Src to Rcvr	0.00
Partition	0.00
Raster Factor	0.50
Max. Length of Section (#(Unit,LEN))	1000.00
Min. Length of Section (#(Unit,LEN))	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	960.00
Reference Time Night (min)	480.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	6.00
Night-time Penalty (dB)	10.00
DTM	
Standard Height (m)	0.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	0
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rvcr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	Excl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (#(Unit,TEMP))	10
rel. Humidity (%)	70
Ground Absorption G	0.40
Wind Speed for Dir. (#(Unit,SPEED))	3.0
Roads (TNM)	
Railways (Schall 03 (1990))	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	

Receivers

Name	M.	ID	Leve	el Lr	Limit.	Value		Lan	d Use	Height		C	oordinates	
			Day	Night	Day	Night	Туре	Auto	Noise Type			Х	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(ft)		(ft)	(ft)	(ft)
1-OU1			59.2	-66.3	65.0	0.0				3.50	r	560.76	354.64	3.50
1-OU2			59.0	-66.5	65.0	0.0				3.50	r	569.94	278.06	3.50
2-OU3			59.1	-66.7	65.0	0.0				14.33	r	566.12	360.77	14.33
2-OU4			33.7	-79.4	65.0	0.0				14.33	r	649.70	382.65	14.33
2-OU5			31.8	-79.7	65.0	0.0				14.33	r	653.24	336.03	14.33
2-OU6			58.9	-66.9	65.0	0.0				14.33	r	575.16	261.37	14.33
2-OU7			40.3	-79.0	65.0	0.0				14.33	r	609.74	321.20	14.33
3-OU3			58.8	-66.9	65.0	0.0				23.83	r	566.12	360.77	23.83
3-OU4			35.8	-78.9	65.0	0.0				23.83	r	649.70	382.65	23.83
3-OU5			36.6	-79.0	65.0	0.0				23.83	r	653.24	336.03	23.83
3-OU6			58.6	-67.1	65.0	0.0				23.83	r	575.16	261.37	23.83

Roads

Name	M.	ID		Lme		Cou	nt Data		ex	kact Cour	nt Data	I		Speed	Limit	SCS	Surf	face	Gradient	Mult	. Reflec	tion
			Day	Evening	Night	DTV	Str.class.		М			p (%)		Auto	Truck	Dist.	Dstro	Туре		Drefl	Hbuild	Dist.
			(dBA)	(dBA)	(dBA)			Day	Evening	Night	Day	Evening	Night	(mph)	(mph)		(dB)		(%)	(dB)	(ft)	(ft)
Lamont Street	t		57.4	0.0	0.0			745.0	0.0	0.0	1.0	0.0	0.0	30		3.66	0.0	1	0.0	0.0		

Geometry - Roads

Name	F	lei	ght		Coordinat	es		Dist	LSlope
	Begin		End	x	у	Z	Ground	(ft)	(%)
	(ft)		(ft)	(ft)	(ft)	(ft)	(ft)		
Lamont Street	0.00	r		433.60	666.01	0.00	0.00		
				486.37	466.13	0.00	0.00		
				517.72	344.87	0.00	0.00		
				521.86	320.41	0.00	0.00		
				523.23	302.15	0.00	0.00		
				522.55	256.68	0.00	0.00		
				523.23	243.59	0.00	0.00		
				524.88	228.00	0.00	0.00		
				528.24	213.57	0.00	0.00		
				578.54	16.86	0.00	0.00		

Buildings

Name	M.	ID	RB	Residents	Absorption	Height	
						Begin	
						(ft)	
Floor 1				0		10.83	r
Floor 2 - Northeast				0			
Floor 2 - Southwest				0			

Geometry - Buildings

Name	M.	ID	RB	Residents	Absorption	Height			Coordinate	es	
					-	Begin		х	у	Z	Ground
						(ft)		(ft)	(ft)	(ft)	(ft)
Floor 1				0		10.83 r	·	561.19	368.21	10.83	0.00
								565.76	351.49	10.83	0.00
								572.86	325.49	10.83	0.00
								576.42	312.48	10.83	0.00
								580.15	298.83	10.83	0.00
								569.74	295.99	10.83	0.00
								574.95	275.32	10.83	0.00
								569.00	273.74	10.83	0.00
								570.19	269.14	10.83	0.00
								574.54	252.04	10.83	0.00
								580.34	253.62	10.83	0.00
								619.43	263.83	10.83	0.00
								629.44	266.46	10.83	0.00
								668.53	276.73	10.83	0.00
								655.39	326.72	10.83	0.00
								650.66	344.78	10.83	0.00
								649.80	348.14	10.83	0.00
								658.04	350.36	10.83	0.00
								654.67	363.16	10.83	0.00
								653.11	369.18	10.83	0.00
								655.99	369.82	10.83	0.00
								654.74	374.59	10.83	0.00
								650.29	391.57	10.83	0.00
								644.62	390.08	10.83	0.00
								566.99	369.73	10.83	0.00
Floor 2 - Northeast				0				572.86	325.49	30.67	10.83
								611.56	335.51	30.67	10.83
							1	605.92	356.70	30.67	10.83
								644.37	366.70	30.67	10.83
								645.83	360.95	30.67	10.83
								617.47	353.46	30.67	10.83
								623.20	331.61	30.67	10.83
	1						1	625.61	332.26	30.67	10.83
								627.05	326.54	30.67	10.83
							1	624.75	325.97	30.67	10.83

Name	M.	ID	RB	Residents	Absorption	Height		Coordinate	es	
						Begin	x	у	Z	Ground
						(ft)	(ft)	(ft)	(ft)	(ft)
							628.32	311.86	30.67	10.83
							618.15	309.21	30.67	10.83
							629.44	266.46	30.67	10.83
							668.53	276.73	30.67	10.83
							655.39	326.72	30.67	10.83
							651.15	325.76	30.67	10.83
							646.41	343.69	30.67	10.83
							650.66	344.78	30.67	10.83
							649.80	348.14	30.67	10.83
							658.04	350.36	30.67	10.83
							654.67	363.16	30.67	10.83
							657.60	363.93	30.67	10.83
							655.99	369.82	30.67	10.83
							654.74	374.59	30.67	10.83
							649.10	373.25	30.67	10.83
							644.62	390.08	30.67	10.83
							566.99	369.73	30.67	10.83
							571.25	352.93	30.67	10.83
							565.76	351.49	30.67	10.83
Floor 2 - Southwest				0			580.34	253.62	30.67	10.83
							575.86	270.55	30.67	10.83
							570.19	269.14	30.67	10.83
							569.00	273.74	30.67	10.83
							574.95	275.32	30.67	10.83
							569.74	295.99	.99 30.67 .83 30.67 .48 30.67	10.83
							580.15	298.83		10.83
							576.42	312.48		10.83
							594.76	317.26	30.67	10.83
							598.10	304.12	30.67	10.83
							608.28	306.65	30.67	10.83
							619.43	263.83	30.67	10.83

Eilar Associates, Inc.

210 South Juniper Street, Suite 100 Escondido, California 92025-4230 Phone: (760) 738-5570 Date: 11 Feb 2021

Calculation Configuration

Configuration	
Parameter	Value
General	
Country	(user defined)
Max. Error (dB)	0.00
Max. Search Radius (#(Unit,LEN))	2000.00
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (#(Unit,LEN))	1000.00
Min. Length of Section (#(Unit,LEN))	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	960.00
Reference Time Night (min)	480.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	6.00
Night-time Penalty (dB)	10.00
DTM	
Standard Height (m)	0.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	0
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rvcr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	Excl. Ground Att. over Barrier
-	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (#(Unit,TEMP))	10
rel. Humidity (%)	70
Ground Absorption G	0.40
Wind Speed for Dir. (#(Unit,SPEED))	3.0
Roads (TNM)	
Railways (Schall 03 (1990))	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	

Receivers

Rece														
Name	М.	ID	Leve	-	Limit.				d Use	Height			ordinates	
			Day	Night	Day	Night	Туре	Auto	Noise Type			Х	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(ft)		(ft)	(ft)	(ft)
1-F1			59.4	-66.2	0.0	0.0		х	Total	5.00	_	560.75	352.40	5.00
1-F2			58.9	-66.6	0.0	0.0		х	Total	5.00	_	569.54	316.39	5.00
1-F3			59.7	-65.9	0.0	0.0		х	Total	5.00	r	566.95	264.00	5.00
1-F4			55.1	-69.8	0.0	0.0		х	Total	5.00		597.27	255.09	5.00
1-F5			51.4	-72.3	0.0	0.0		х	Total	5.00	r	651.22	269.21	5.00
1-F6			49.9	-73.2	0.0	0.0		х	Total	5.00	r	668.27	289.88	5.00
1-F7			43.1	-77.6	0.0	0.0		х	Total	5.00	r	655.11	341.54	5.00
1-F8			44.1	-77.1	0.0	0.0		х	Total	5.00	r	657.71	376.71	5.00
1-F9			51.6	-72.3	0.0	0.0		х	Total	5.00	r	630.47	388.33	5.00
1-F10			55.0	-69.9	0.0	0.0		х	Total	5.00	r	579.34	375.41	5.00
2-F1			59.8	-66.0	0.0	0.0		х	Total	15.83	r	560.75	352.40	15.83
2-F2			59.4	-66.4	0.0	0.0		х	Total	15.83	r	569.54	316.39	15.83
2-F3			60.0	-65.8	0.0	0.0		х	Total	15.83	r	566.95	264.00	15.83
2-F4			56.3	-69.2	0.0	0.0		х	Total	15.83	r	597.27	255.09	15.83
2-F5			53.0	-72.0	0.0	0.0		х	Total	15.83	r	651.22	269.21	15.8
2-F6			51.6	-73.0	0.0	0.0		х	Total	15.83	r	668.27	289.88	15.83
2-F7			44.1	-77.5	0.0	0.0		х	Total	15.83	r	655.11	341.54	15.83
2-F8			46.2	-76.5	0.0	0.0		х	Total	15.83	r	657.71	376.71	15.83
2-F9			53.0	-72.0	0.0	0.0		х	Total	15.83	r	630.47	388.33	15.83
2-F10			56.3	-69.3	0.0	0.0		х	Total	15.83	r	579.34	375.41	15.8
2-F11			52.2	-73.0	0.0	0.0		х	Total	15.83	r	591.53	326.68	15.8
2-F12			39.6	-79.1	0.0	0.0		х	Total	15.83	r	620.99	330.30	15.83
2-F13			32.1	-79.7	0.0	0.0		х	Total	15.83	r	621.16	278.26	15.83
3-F1			59.3	-66.4	0.0	0.0		х	Total	25.33	r	560.75	352.40	25.3
3-F2			59.1	-66.6	0.0	0.0		х	Total	25.33	r	569.54	316.39	25.3
3-F3			59.5	-66.2	0.0	0.0		х	Total	25.33	r	566.95	264.00	25.3
3-F4			56.6	-69.1	0.0	0.0		х	Total	25.33	r	597.27	255.09	25.3
3-F5			53.6	-71.7	0.0	0.0		х	Total	25.33	r	651.22	269.21	25.3
3-F6			52.4	-72.7	0.0	0.0		х	Total	25.33	r	668.27	289.88	25.3
3-F7			45.8	-76.8	0.0	0.0		х	Total	25.33	r	655.11	341.54	25.3
3-F8			47.2	-76.1	0.0	0.0		х	Total	25.33	r	657.71	376.71	25.3
3-F9			53.6	-71.7	0.0	0.0		х	Total	25.33	r	630.47	388.33	25.3
3-F10			56.3	-69.3	0.0	0.0		х	Total	25.33	r	579.34	375.41	25.3
3-F11			52.1	-72.8	0.0	0.0		х	Total	25.33		591.53	326.68	25.3
3-F12			47.3	-75.9	0.0	0.0		х	Total	25.33	_	620.99	330.30	25.3
3-F13			38.0	-78.6	0.0	0.0		x	Total	25.33	_	621.16	278.26	25.3

Roads

Name		M.	ID		Lme		Cou	nt Data		ex	kact Cou	nt Data			Speed	l Limit	SCS	Surf	ace	Gradient	Mult	. Reflec	ction
				Day	Evening	Night	DTV	Str.class.		М			p (%)		Auto	Truck	Dist.	Dstro	Туре		Drefl	Hbuild	Dist.
				(dBA)	(dBA)	(dBA)			Day	Evening	Night	Day	Evening	Night	(mph)	(mph)		(dB)		(%)	(dB)	(ft)	(ft)
Lamont Stre	et			57.4	0.0	0.0			745.0	0.0	0.0	1.0	0.0	0.0	30		3.66	0.0	1	0.0	0.0		

Geometry - Roads

Name	F	lei	ght		Coordinat	es		Dist	LSlope
	Begin		End	x	у	Z	Ground	(ft)	(%)
	(ft)		(ft)	(ft)	(ft)	(ft)	(ft)		
Lamont Street	0.00	r		433.60	666.01	0.00	0.00		
				486.37	466.13	0.00	0.00		
				517.72	344.87	0.00	0.00		
				521.86	320.41	0.00	0.00		
				523.23	302.15	0.00	0.00		
				522.55	256.68	0.00	0.00		
				523.23	243.59	0.00	0.00		
				524.88	228.00	0.00	0.00		
				528.24	213.57	0.00	0.00		
				578.54	16.86	0.00	0.00		

Buildings

Name	M.	ID	RB	Residents	Absorption	Height	
						Begin	
						(ft)	
Floor 1				0		10.83	r
Floor 2 - Northeast				0			
Floor 2 - Southwest				0			

Geometry - Buildings

Name	M.	ID	RB	Residents	Absorption	Height		Coordinate	es	
						Begin	x	У	z	Ground
						(ft)	(ft)	(ft)	(ft)	(ft)
Floor 1				0		10.83 r	561.19	368.21	10.83	0.00
							565.76	351.49	10.83	0.00
							572.86	325.49	10.83	0.00
							576.42	312.48	10.83	0.00
							580.15	298.83	10.83	0.00
							569.74	295.99	10.83	0.00
							574.95	275.32	10.83	0.00
							569.00	273.74	10.83	0.00
							570.19	269.14	10.83	0.00
							574.54	252.04	10.83	0.00
							580.34	253.62	10.83	0.00
							619.43	263.83	10.83	0.00
							629.44	266.46	10.83	0.00
							668.53	276.73	10.83	0.00
							655.39	326.72	10.83	0.00
							650.66	344.78	10.83	0.00
							649.80	348.14	10.83	0.00
							658.04	350.36	10.83	0.00
							654.67	363.16	10.83	0.00
							653.11	369.18	10.83	0.00
							655.99	369.82	10.83	0.00
							654.74	374.59	10.83	0.00
							650.29	391.57	10.83	0.00
							644.62	390.08	10.83	0.00
							566.99	369.73	10.83	0.00
Floor 2 - Northeast				0			572.86	325.49	30.67	10.83
							611.56	335.51	30.67	10.83
							605.92	356.70	30.67	10.83
							644.37	366.70	30.67	10.83
							645.83	360.95	30.67	10.83
							617.47	353.46	30.67	10.83
							623.20	331.61	30.67	10.83
							625.61	332.26	30.67	10.83
							627.05	326.54	30.67	10.83
							624.75	325.97	30.67	10.83

Name	M.	ID	RB	Residents	Absorption	Height		Coordinate	es	
						Begin	x	у	Z	Ground
						(ft)	(ft)	(ft)	(ft)	(ft)
							628.32	311.86	30.67	10.83
							618.15	309.21	30.67	10.83
							629.44	266.46	30.67	10.83
							668.53	276.73	30.67	10.83
							655.39	326.72	30.67	10.83
							651.15	325.76	30.67	10.83
							646.41	343.69	30.67	10.83
							650.66	344.78	30.67	10.83
							649.80	348.14	30.67	10.83
							658.04	350.36	30.67	10.83
							654.67	363.16	30.67	10.83
							657.60	363.93	30.67	10.83
							655.99	369.82	30.67	10.83
							654.74	374.59	30.67	10.83
							649.10	373.25	30.67	10.83
							644.62	390.08	30.67	10.83
							566.99	369.73	30.67	10.83
							571.25	352.93	30.67	10.83
							565.76	351.49	30.67	10.83
Floor 2 - Southwest				0			580.34	253.62	30.67	10.83
							575.86	270.55	30.67	10.83
							570.19	269.14	30.67	10.83
							569.00	273.74	30.67	10.83
							574.95	275.32	30.67	10.83
							569.74	295.99	30.67	10.83
							580.15	298.83	30.67	10.83
							576.42	312.48	30.67	10.83
							594.76	317.26	30.67	10.83
							598.10	304.12	30.67	10.83
							608.28	306.65	30.67	10.83
							619.43	263.83	30.67	10.83

Eilar Associates, Inc.

210 South Juniper Street, Suite 100 Escondido, California 92025-4230 Phone: (760) 738-5570 Date: 15 Feb 2021

Calculation Configuration

Configuration	
Parameter	Value
General	Value
Country	(user defined)
Max. Error (dB)	0.00
Max. Search Radius (#(Unit,LEN))	2000.00
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (#(Unit,LEN))	1000.00
Min. Length of Section (#(Unit,LEN))	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	960.00
Reference Time Night (min)	480.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	6.00
Night-time Penalty (dB)	10.00
DTM	
Standard Height (m)	0.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	0
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rvcr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	Excl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (#(Unit,TEMP))	10
rel. Humidity (%)	70
Ground Absorption G	0.40
Wind Speed for Dir. (#(Unit,SPEED))	3.0
Roads (TNM)	
Railways (Schall 03 (1990))	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	

Receivers

11000														
Name	M.	ID	Leve	el Lr	Limit.	Value		Land	d Use	Height		Co	oordinates	
			Day	Night	Day	Night	Туре	Auto	Noise Type			Х	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(ft)		(ft)	(ft)	(ft)
1-R1			29.9	29.9	50.0	0.0				5.00	r	594.56	386.23	5.00
1-R2			26.1	26.1	45.0	0.0				5.00	r	670.52	402.29	5.00
1-R3			28.8	28.8	47.5	0.0				5.00	r	682.77	352.93	5.00
1-R4			27.2	27.2	45.0	0.0				5.00	r	688.31	302.46	5.00
1-R5			31.1	31.1	50.0	0.0				5.00	r	621.43	258.24	5.00
2-R1			32.9	32.9	50.0	0.0				15.00	r	594.56	386.23	15.00
2-R3			33.4	33.4	47.5	0.0				15.00	r	682.77	352.93	15.00
2-R4			31.2	31.2	45.0	0.0				15.00	r	688.31	302.46	15.00
2-R5			37.0	37.0	50.0	0.0				15.00	r	621.43	258.24	15.00
3-R1			41.4	41.4	50.0	0.0				25.00	r	594.56	386.23	25.00
3-R4			38.9	38.9	45.0	0.0				25.00	r	688.31	302.46	25.00

Point Sources

			1663						r															
Name I	M.	ID	Re	esult. PW	L		Lw/L	.i	(Correctior	۱	Soun	d Reduction	Attenuation	Ope	erating Ti	me	K0	Freq.	Direct.	Height	Co	ordinates	
			Day	Evening	Night	Туре	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night					Х	Y	Z
			(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(ft²)		(min)	(min)	(min)	(dB)	(Hz)		(ft)	(ft)	(ft)	(ft)
AC-C1			71.0	71.0	71.0	Lw	AC1		0.0	0.0	0.0							0.0		(none)	3.00 g	580.81	340.72	33.67
AC-C2			71.0	71.0	71.0	Lw	AC1		0.0	0.0	0.0							0.0		(none)	3.00 g	595.72	293.45	33.67
AC-CL			71.0	71.0	71.0	Lw	AC1		0.0	0.0	0.0							0.0		(none)	3.00 g	585.93	342.02	33.67
AC1			71.0	71.0	71.0	Lw	AC1		0.0	0.0	0.0							0.0		(none)	3.00 g	588.48	364.36	33.67
AC2			71.0	71.0	71.0	Lw	AC1		0.0	0.0	0.0							0.0		(none)	3.00 g	600.23	278.10	33.67
AC3			71.0	71.0	71.0	Lw	AC1		0.0	0.0	0.0							0.0		(none)	3.00 g	591.74	343.73	33.67
AC4			71.0	71.0	71.0	Lw	AC1		0.0	0.0	0.0							0.0		(none)	3.00 g	595.69	366.19	33.67
AC5			71.0	71.0	71.0	Lw	AC1		0.0	0.0	0.0							0.0		(none)	3.00 g	615.95	371.17	33.67
AC6			71.0	71.0	71.0	Lw	AC1		0.0	0.0	0.0							0.0		(none)	3.00 g	638.47	337.23	33.67
AC7			71.0	71.0	71.0	Lw	AC1		0.0	0.0	0.0							0.0		(none)	3.00 g	632.98	292.45	33.67
AC8			71.0	71.0	71.0	Lw	AC1		0.0	0.0	0.0							0.0		(none)	3.00 g	637.38	275.94	33.67
AC9			71.0	71.0	71.0	Lw	AC1		0.0	0.0	0.0							0.0		(none)	3.00 g	602.94	267.21	33.67
AC10			71.0	71.0	71.0	Lw	AC1		0.0	0.0	0.0							0.0		(none)	3.00 g	597.32	288.29	33.67
AC11			71.0	71.0	71.0	Lw	AC1		0.0	0.0	0.0							0.0		(none)	3.00 g	597.69	345.17	33.67
AC12			71.0	71.0	71.0	Lw	AC1		0.0	0.0	0.0							0.0		(none)	3.00 g	601.98	367.83	33.67
AC13			71.0	71.0	71.0	Lw	AC1		0.0	0.0	0.0							0.0		(none)	3.00 g	608.36	369.36	33.67
AC14			71.0	71.0	71.0	Lw	AC1		0.0	0.0	0.0							0.0		(none)	3.00 g	633.00	336.00	33.67
AC15			71.0	71.0	71.0	Lw	AC1		0.0	0.0	0.0							0.0		(none)	3.00 g	634.67	286.71	33.67
AC16			71.0	71.0	71.0	Lw	AC1		0.0	0.0	0.0							0.0		(none)	3.00 g	635.83	281.38	33.67
AC17			71.0	71.0	71.0	Lw	AC1		0.0	0.0	0.0							0.0		(none)	3.00 g	601.47	272.45	33.67
AC18			71.0	71.0	71.0	Lw	AC1		0.0	0.0	0.0							0.0		(none)	3.00 g	598.69	283.41	33.67

Buildings

Name	M.	ID	RB	Residents	Absorption	Height	
						Begin	
						(ft)	
Floor 1				0		10.83	r
Floor 2 - Northeast				0			
Floor 2 - Southwest				0			

Geometry - Buildings

Name	M.	ID	RB	Residents	Absorption	Height			Coordinate	es	
						Begin		x	у	Z	Ground
						(ft)		(ft)	(ft)	(ft)	(ft)
Floor 1				0		10.83	r	561.19	368.21	10.83	0.00
								565.76	351.49	10.83	0.00
								572.86	325.49	10.83	0.00
								576.42	312.48	10.83	0.00
								580.15	298.83	10.83	0.00
								569.74	295.99	10.83	0.00
								574.95	275.32	10.83	0.00
								569.00	273.74	10.83	0.00
								570.19	269.14	10.83	0.00
								574.54	252.04	10.83	0.00
								580.34	253.62	10.83	0.00
								619.43	263.83	10.83	0.00
								629.44	266.46	10.83	0.00
							Τ	668.53	276.73	10.83	0.00
								655.39	326.72	10.83	0.00
							Τ	650.66	344.78	10.83	0.00
								649.80	348.14	10.83	0.00
								658.04	350.36	10.83	0.00
								654.67	363.16	10.83	0.00
								653.11	369.18	10.83	0.00
								655.99	369.82	10.83	0.00
								654.74	374.59	10.83	0.00
								650.29	391.57	10.83	0.00
								644.62	390.08	10.83	0.00
								566.99	369.73	10.83	0.00
Floor 2 - Northeast				0				572.86	325.49	30.67	10.83
								611.56	335.51	30.67	10.83
								605.92	356.70	30.67	10.83
								644.37	366.70	30.67	10.83
								645.83	360.95	30.67	10.83
								617.47	353.46	30.67	10.83
								623.20	331.61	30.67	10.83
								625.61	332.26	30.67	10.83
								627.05	326.54	30.67	10.83
								624.75	325.97	30.67	10.83

Name	M.	ID	RB	Residents	Absorption	Height		Coordinate	es	
						Begin	x	у	Z	Ground
						(ft)	(ft)	(ft)	(ft)	(ft)
							628.32	311.86	30.67	10.83
							618.15	309.21	30.67	10.83
							629.44	266.46	30.67	10.83
							668.53	276.73	30.67	10.83
							655.39	326.72	30.67	10.83
							651.15	325.76	30.67	10.83
							646.41	343.69	30.67	10.83
							650.66	344.78	30.67	10.83
							649.80	348.14	30.67	10.83
							658.04	350.36	30.67	10.83
							654.67	363.16	30.67	10.83
							657.60	363.93	30.67	10.83
							655.99	369.82	30.67	10.83
							654.74	374.59	30.67	10.83
							649.10	373.25	30.67	10.83
							644.62	390.08	30.67	10.83
							566.99	369.73	30.67	10.83
							571.25	352.93	30.67	10.83
							565.76	351.49	30.67	10.83
Floor 2 - Southwest				0			580.34	253.62	30.67	10.83
							575.86	270.55	30.67	10.83
							570.19	269.14	30.67	10.83
							569.00	273.74	30.67	10.83
							574.95	275.32	30.67	10.83
							569.74	295.99	30.67	10.83
							580.15	298.83	30.67	10.83
							576.42	312.48	30.67	10.83
							594.76	317.26	30.67	10.83
							598.10	304.12	30.67	10.83
							608.28	306.65	30.67	10.83
							619.43	263.83	30.67	10.83

Sound Level Spectra

Name	ID	Туре					Okta	ve Spe	ctrum (dB)					Source
			Weight. 31.5 63 125 250 500 1000 2000 4000 8000 A lin												
Carrier 25HBC5030	AC1	Lw				52.9	60.4	63.4	67.4	64.4	61.9	55.4	71.0	71.3	Manufacturer

210 South Juniper Street, Suite 100 Escondido, California 92025-4230 Phone: (760) 738-5570 Date: 16 Feb 2021

Configuration	
Parameter	Value
General	
Country	(user defined)
Max. Error (dB)	0.00
Max. Search Radius (#(Unit,LEN))	2000.00
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (#(Unit,LEN))	1000.00
Min. Length of Section (#(Unit,LEN))	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	960.00
Reference Time Night (min)	480.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	6.00
Night-time Penalty (dB)	10.00
DTM	
Standard Height (m)	0.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	0
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rvcr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	Excl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (#(Unit,TEMP))	10
rel. Humidity (%)	70
Ground Absorption G	0.40
Wind Speed for Dir. (#(Unit,SPEED))	3.0
Roads (TNM)	
Railways (Schall 03 (1990))	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	

Name	M.	ID	Leve	el Lr	Limit.	Value		Land	d Use	Height		С	oordinates	
			Day	Night	Day	Night	Туре	Auto	Noise Type			Х	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(ft)		(ft)	(ft)	(ft)
Right of Way			62.6	-62.1	57.1	0.0				5.00	r	533.68	366.84	5.00

Roads

Name	Μ.	ID		Lme		Cou	nt Data		ex	kact Cour				Speed	l Limit	SCS	Surf	ace	Gradient	Mult	. Reflec	ction
			Day	Evening	Night	DTV	Str.class.		М			p (%)			Truck	Dist.	Dstro	Туре		Drefl	Hbuild	Dist.
			(dBA)	(dBA)	(dBA)			Day	Evening	Night	Day	Evening	Night	(mph)	(mph)		(dB)		(%)	(dB)	(ft)	(ft)
Lamont Street			56.2	0.0	0.0			561.0	0.0	0.0	1.0	0.0	0.0	30		3.66	0.0	1	0.0	0.0		

Geometry - Roads

Name	F	lei	ght		Coordinat	es		Dist	LSlope
	Begin		End	x	у	Z	Ground	(ft)	(%)
	(ft)		(ft)	(ft)	(ft)	(ft)	(ft)		
Lamont Street	0.00	r		433.60	666.01	0.00	0.00		
				486.37	466.13	0.00	0.00		
				517.72	344.87	0.00	0.00		
				521.86	320.41	0.00	0.00		
				523.23	302.15	0.00	0.00		
				522.55	256.68	0.00	0.00		
				523.23	243.59	0.00	0.00		
				524.88	228.00	0.00	0.00		
				528.24	213.57	0.00	0.00		
				578.54	16.86	0.00	0.00		

210 South Juniper Street, Suite 100 Escondido, California 92025-4230 Phone: (760) 738-5570 Date: 16 Feb 2021

Configuration	1
Parameter	Value
General	
Country	(user defined)
Max. Error (dB)	0.00
Max. Search Radius (#(Unit,LEN))	2000.00
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (#(Unit,LEN))	1000.00
Min. Length of Section (#(Unit,LEN))	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	960.00
Reference Time Night (min)	480.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	6.00
Night-time Penalty (dB)	10.00
DTM	
Standard Height (m)	0.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	0
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rvcr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	Excl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (#(Unit,TEMP))	10
rel. Humidity (%)	70
Ground Absorption G	0.40
Wind Speed for Dir. (#(Unit,SPEED))	3.0
Roads (TNM)	
Railways (Schall 03 (1990))	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	

	Name	M.	ID	Lev	el Lr	Limit.	Value		Land	d Use	Height		C	oordinates	
				Day	Night	Day	Night	Туре	Auto	Noise Type			Х	Y	Z
				(dBA)	(dBA)	(dBA)	(dBA)				(ft)		(ft)	(ft)	(ft)
Ri	ght of Way			62.6	-62.1	57.1	0.0				5.00	r	533.68	366.84	5.00

Roads

Name	M.	ID		Lme		Cou	nt Data		ex	kact Cou	unt Data			Speed	l Limit	SCS	Surfa	ace	Gradient	Mult	. Reflec	ction
			Day	Evening	Night	DTV	Str.class.		М			p (%)			Truck	Dist.	Dstro	Туре		Drefl	Hbuild	Dist.
			(dBA)	(dBA)	(dBA)			Day	Evening	Night	Day	Evening	Night	(mph)	(mph)		(dB)		(%)	(dB)	(ft)	(ft)
Lamont Street			56.3	0.0	0.0			572.0	0.0	0.0	1.0	0.0	0.0	30		3.66	0.0	1	0.0	0.0		

Geometry - Roads

Name	F	lei	ght		Coordinat	es		Dist	LSlope
	Begin		End	x	у	Z	Ground	(ft)	(%)
	(ft)		(ft)	(ft)	(ft)	(ft)	(ft)		
Lamont Street	0.00	r		433.60	666.01	0.00	0.00		
				486.37	466.13	0.00	0.00		
				517.72	344.87	0.00	0.00		
				521.86	320.41	0.00	0.00		
				523.23	302.15	0.00	0.00		
				522.55	256.68	0.00	0.00		
				523.23	243.59	0.00	0.00		
				524.88	228.00	0.00	0.00		
				528.24	213.57	0.00	0.00		
				578.54	16.86	0.00	0.00		

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Configuration	
Parameter	Value
General	Value
Country	(user defined)
Max. Error (dB)	0.00
Max. Search Radius (#(Unit,LEN))	2000.00
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (#(Unit,LEN))	1000.00
Min. Length of Section (#(Unit,LEN))	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	960.00
Reference Time Night (min)	480.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	6.00
Night-time Penalty (dB)	10.00
DTM	
Standard Height (m)	0.00
Model of Terrain	Triangulation
Reflection	-
max. Order of Reflection	0
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rvcr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	Excl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (#(Unit,TEMP))	10
rel. Humidity (%)	70
Ground Absorption G	0.40
Wind Speed for Dir. (#(Unit,SPEED))	3.0
Roads (TNM)	
Railways (Schall 03 (1990))	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	

Name	M.	ID	Leve	əl Lr	Limit.	Value		Land	d Use	Height		C	oordinates	
			Day	Night	Day	, ,		Auto	Noise Type			Х	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(ft)		(ft)	(ft)	(ft)
C1			73.0	-80.2	75.0	0.0				5.00	r	594.56	386.23	5.00
C2			71.8	-80.2	75.0	0.0				5.00	r	684.19	335.45	5.00
C3			72.5	-80.2	75.0	0.0				5.00	r	621.43	258.24	5.00

Point Sources

			-																					
Name	M.	ID	R	esult. PW	/L		Lw/L	.i		Correction	۱	Sound	d Reduction	Attenuation	Op	erating T	ime	K0	Freq.	Direct.	Height	C	oordinates	
			Day	Evening	Night	Туре	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night					Х	Y	Z
			(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(ft²)		(min)	(min)	(min)	(dB)	(Hz)		(ft)	(ft)	(ft)	(ft)
Backhoe			99.9	99.9	99.9	Lw	C2		0.0	0.0	0.0				24.00	0.00	0.00	0.0		(none)	6.00 r	611.92	324.88	6.00
Dump Truck	(112.0	112.0	112.0	Lw	C4		0.0	0.0	0.0				24.00	0.00	0.00	0.0		(none)	6.00 r	611.92	324.88	6.00
Excavator			100.6	100.6	100.6	Lw	C5		0.0	0.0	0.0				24.00	0.00	0.00	0.0		(none)	6.00 r	611.92	324.88	6.00

Sound Level Spectra

Name	ID	Туре					Okta	ve Spe	ctrum (dB)					Source
			Weight.	31.5	63	125	250	500	1000	2000	4000	8000	Α	lin	
Air Compressor	C1	Lw (c)			115.0	104.0	95.0	90.0	88.0	86.0	89.0	78.0	96.5	115.4	DEFRA
Backhoe	C2	Lw (c)			103.0	94.0	98.0	98.0	94.0	93.0	87.0	81.0	99.9	106.0	DEFRA
Crane	C3	Lw (c)			111.0	103.0	102.0	98.0	96.0	93.0	88.0	80.0	101.3	112.4	DEFRA
Dump Truck	C4	Lw (c)			121.0	118.0	108.0	110.0	106.0	104.0	98.0	94.0	112.0	123.3	DEFRA
Excavator	C5	Lw (c)			105.0	101.0	99.0	98.0	95.0	93.0	89.0	81.0	100.6	108.1	DEFRA
Forklift	C6	Lw (c)			116.0	110.0	100.0	98.0	95.0	93.0	87.0	78.0	101.5	117.2	DEFRA

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Configuration	
Parameter	Value
General	
Country	(user defined)
Max. Error (dB)	0.00
Max. Search Radius (#(Unit,LEN))	2000.00
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (#(Unit,LEN))	1000.00
Min. Length of Section (#(Unit,LEN))	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	960.00
Reference Time Night (min)	480.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	6.00
Night-time Penalty (dB)	10.00
DTM	
Standard Height (m)	0.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	0
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rvcr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	Excl. Ground Att. over Barrier
-	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (#(Unit,TEMP))	10
rel. Humidity (%)	70
Ground Absorption G	0.40
Wind Speed for Dir. (#(Unit,SPEED))	3.0
Roads (TNM)	
Railways (Schall 03 (1990))	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	
۱ <u>ــــــــــــــــــــــــــــــــــــ</u>	

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Name	M.	ID	Leve	el Lr	Limit.	Value		Land	d Use	Height		C	oordinates	
			Day	Night	Day	Night	Туре	Auto	Noise Type			Х	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(ft)		(ft)	(ft)	(ft)
C1			64.5	-80.2	75.0	0.0				5.00	r	594.56	386.23	5.00
C2			63.2	-80.2	75.0	0.0				5.00	r	684.19	335.45	5.00
C3			64.0	-80.2	75.0	0.0				5.00	r	621.43	258.24	5.00

Point Sources

		-																						
Name	M. I	ID	R	esult. PW	/L		Lw/L	i	(Correctior	n	Soun	d Reduction	Attenuation	Op	erating T	ime	K0	Freq.	Direct.	Height	C	oordinates	
			Day	Evening	Night	Туре	Value	norm. D	Day	Evening	Night	R	Area		Day	Special	Night					X	Y	Z
		((dBA)	(dBA)	(dBA)			dB(A) dE	B(A)	dB(A)	dB(A)		(ft ²)		(min)	(min)	(min)	(dB)	(Hz)		(ft)	(ft)	(ft)	(ft)
Air Compressor			96.5	96.5	96.5	Lw	C1		0.0	0.0	0.0				24.00	0.00	0.00	0.0		(none)	6.00 r	611.92	324.88	6.00
Crane			101.3	101.3	101.3	Lw	C3		0.0	0.0	0.0				9.60	0.00	0.00	0.0		(none)	6.00 r	611.92	324.88	6.00
Forklift			101.5	101.5	101.5	Lw	C6		0.0	0.0	0.0				24.00	0.00	0.00	0.0		(none)	6.00 r	611.92	324.88	6.00

Sound Level Spectra

Name	ID	Туре					Okta	ve Spe	ctrum (dB)					Source
			Weight.	31.5	63	125	250	500	1000	2000	4000	8000	А	lin	
Air Compressor	C1	Lw (c)			115.0	104.0	95.0	90.0	88.0	86.0	89.0	78.0	96.5	115.4	DEFRA
Backhoe	C2	Lw (c)			103.0	94.0	98.0	98.0	94.0	93.0	87.0	81.0	99.9	106.0	DEFRA
Crane	C3	Lw (c)			111.0	103.0	102.0	98.0	96.0	93.0	88.0	80.0	101.3	112.4	DEFRA
Dump Truck	C4	Lw (c)			121.0	118.0	108.0	110.0	106.0	104.0	98.0	94.0	112.0	123.3	DEFRA
Excavator	C5	Lw (c)			105.0	101.0	99.0	98.0	95.0	93.0	89.0	81.0	100.6	108.1	DEFRA
Forklift	C6	Lw (c)			116.0	110.0	100.0	98.0	95.0	93.0	87.0	78.0	101.5	117.2	DEFRA



Appendix D Manufacturer Data Sheets

25HBC5 Comfort 15 Heat Pump with Puron[®] Refrigerant 1-1/2 to 5 Nominal Tons



Product Data





Carrier heat pumps with Puron[®] refrigerant provide a collection of features unmatched by any other family of equipment. The 25HBC has been designed utilizing Carrier's Puron refrigerant. The environmentally sound refrigerant allows consumers to make a responsible decision in the protection of the earth's ozone layer.

This product has been designed and manufactured to meet Energy Star[®] criteria for energy efficiency when matched with appropriate coil components. Refer to the combination ratings in the Product Data for system combinations that meet Energy Star[®] guidelines.

NOTE: Ratings contained in this document are subject to change at any time. Always refer to the AHRI directory (www.ahridirectory.org) for the most up-to-date ratings information.

INDUSTRY LEADING FEATURES / BENEFITS

Efficiency

- 15 SEER/ 12.5 EER / 8.0 9.0 HSPF
- Microtube Technology[™] refrigeration system
- · Indoor air quality accessories available

Sound

- Sound level as low as 69 dBA
- · Sound levels as low as 68 dBA with accessory sound blanket

Comfort

• System supports Edge[®] Thermidistat [™] or standard thermostat controls

Reliability

- Puron[®] refrigerant environmentally sound, won't deplete the ozone layer and low lifetime service cost.
- Scroll compressor
- Internal pressure relief valve
- Internal thermal overload
- High pressure switch
- Loss of charge switch
- Filter drier
- · Balanced refrigeration system for maximum reliability

Durability

WeatherArmor[™] protection package:

- Solid, durable sheet metal construction
- Dense wire coil guard standard
- Baked-on powder paint

Applications

- Long-line up to 250 feet (76.20 m) total equivalent length, up to 200 feet (60.96 m) condenser above evaporator, or up to 80 ft. (24.38 m) evaporator above condenser (See Longline Guide for more information.)
- Low ambient cooling (down to -20°F/-28.9°C) with accessory kit

ELECTRICAL DATA

UNIT SIZE	V/PH	OPER V	OLTS*	CON	IPR	FAN	МСА	MIN V SIZ		MAX ft	MAX FUSE** or BRK	
		MAX	MIN	LRA	RLA	FLA		60° C	75° C	60°C	75° C	AMPS
18-30				48.0	9.0	0.5	11.8	14	14	67 (20.4)	63 (19.2)	20
24-30				58.3	12.8	0.5	16.5	14	14	48 (14.6)	45 (13.7)	25
30-30				73.0	14.1	0.5	18.1	14	14	44 (13.4)	41 (12.5)	30
36-30	208/230/1	253	197	79.0	16.7	1.2	22.1	12	12	57 (17.4)	54 (16.5)	35
42-30				109.0	21.1	1.2	27.6	10	10	72 (21.9)	69 (21.0)	40
48-30				117.0	21.8	1.2	28.5	10	10	70 (21.3)	67 (20.4)	40
60-30				134.0	26.4	1.2	34.2	8	10	91 (27.7)	56 (17.1)	50

Permissible limits of the voltage range at which the unit will operate satisfactorily

If wire is applied at ambient greater than 30°C, consult table 310-16 of the NEC (NFPA 70). The ampacity of non-metallic-sheathed cable (NM), t trade name ROMEX, shall be that of 60°C conditions, per the NEC (NFPA 70) Article 336-26. If other than uncoated (no-plated), 60 or 75°C insulation, copper wire (solid wire for 10 AWG or smaller, stranded wire for larger than 10 AWG) is used, consult applicable tables of the NEC (NFPA 70).

Length shown is as measured 1 way along wire path between unit and service panel for voltage drop not to exceed 2%. ŧ

- ** Time-Delay fuse.
- FLA Full Load Amps

LRA - Locked Rotor Amps

MCA – Minimum Circuit Amps RLA – Rated Load Amps

NOTE: Control circuit is 24-V on all units and requires external power source. Copper wire must be used from service disconnect to unit. All motors/compressors contain internal overload protection.

Complies with 2007 requirements of ASHRAE Standards 90.1

A-WEIGHTED SOUND POWER (dBA)

UNIT SIZE	STANDARD		TYPICAL OC	TAVE BAND	SPECTRUM (dBA, without t	one adjustme	nt)
UNIT SIZE	RATING dBA	125	250	500	1000	2000	4000	8000
18-30	73	49.5	60.0	65.0	69.0	65.5	62.0	55.0
24-30	69	48.5	59.5	61.5	62.5	61.0	59.0	53.5
30-30	71	51.0	58.5	61.5	65.5	62.5	60.0	53.5
36-30	72	55.5	59.5	63.5	66.5	64.5	61.5	55.5
42-30	74	56.5	64.0	67.0	68.5	65.0	62.0	57.5
48-30	74	55.5	62.0	66.0	69.0	65.0	62.0	56.0
60-30	74	59.0	62.0	65.0	68.0	65.0	62.5	62.0

NOTE: Tested in accordance with AHRI Standard 270-08 (not listed in AHRI).

A-WEIGHTED SOUND POWER (dBA) WITH SOUND SHIELD

UNIT SIZE	STANDARD	TYPICAL OCTAVE BAND SPECTRUM (dBA, without tone adjustment)										
UNIT SIZE	RATING dBA	125	250	500	1000	2000	4000	8000				
18-30	72	50.5	60.0	65.0	67.5	64.5	61.5	53.5				
24-30	68	49.5	58.5	61.5	62.0	61.0	58.5	51.5				
30-30	69	50.5	58.5	61.5	64.0	61.5	58.5	51.5				
36-30	70	54.5	57.5	63.0	66.0	64.0	61.0	54.0				
42-30	72	56.5	64.5	66.5	66.5	64.5	61.0	54.5				
48-30	72	55.5	62.5	66.0	68.0	64.0	60.0	53.0				
60-30	73	58.5	62.5	65.0	67.0	64.0	61.0	56.5				

NOTE: Tested in accordance with AHRI Standard 270-08 (not listed in AHRI).

CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

UNIT SIZE-SERIES	REQUIRED SUBCOOLING °F (°C)
18-30	12 (6.7)
24-30	14 (7.8)
30-30	10 (5.6)
36-30	8 (4.4)
42-30	10 (5.6)
48-30	11 (6.1)
60-30	10 (5.6)