



**Noise Analysis for the
Centre City Shopping Center Project
Escondido, California**

Prepared for
OnPoint Development
7514 Girard Avenue, Suite 1515
La Jolla, CA 92037
Contact: Mr. Todd Dwyer

Prepared by
RECON Environmental, Inc.
1927 Fifth Avenue
San Diego, CA 92101
P 619.308.9333

RECON Number 8478
May 4, 2017

A handwritten signature in cursive script that reads "Jessica Fleming".

Jessica Fleming, Environmental Analyst

TABLE OF CONTENTS

Acronyms..... iii

Executive Summary..... 1

1.0 Introduction 2

 1.1 Project Description2

 1.2 Fundamentals of Noise.....6

2.0 Applicable Noise Standards City of Escondido 7

 2.1 General Plan.....7

 2.2 Municipal Code.....9

3.0 Existing Conditions..... 11

4.0 Analysis Methodology..... 14

 4.1 Construction Noise Analysis 14

 4.2 Traffic Noise Analysis 14

 4.3 On-Site Generated Noise Analysis..... 15

5.0 Future Acoustical Environment and Impacts..... 18

 5.1 Construction Noise 18

 5.2 Traffic Noise 20

 5.3 On-site Noise 21

6.0 Conclusions..... 27

 6.1 Construction Noise 27

 6.2 Traffic Noise 27

 6.3 On-site Generated Noise 28

7.0 References Cited..... 29

FIGURES

1: Regional Location..... 3

2: Project Location on Aerial Photograph..... 4

3: Site Plan..... 5

4: Noise Measurement Locations..... 13

5: Construction Noise Contours and Modeled Receivers 19

6: On-Site Noise Sources and Property Line Receivers 23

7: Daytime Operation Noise Level Contours..... 24

8: Nighttime Operation Noise Level Contours..... 25

TABLE OF CONTENTS (cont.)

TABLES

1: Land Use Compatibility Standards..... 8
 2: Exterior Incremental Environmental Noise Impact Standards for Noise-Sensitive
 Uses 9
 3: City of Escondido Exterior Sound Limit Levels10
 4: Noise Measurements.....12
 5: 15-minute Traffic Counts.....12
 6: Typical Construction Equipment Noise Levels14
 7: Future Vehicle Traffic Parameters.....16
 8: Construction Noise Levels20
 9: Traffic Noise Level with and without Project and Ambient Noise Increases.....22
 10: Daytime On-Site Generated Noise Levels.....26
 11: Nighttime On-Site Generated Noise Levels.....27

ATTACHMENTS

1: Noise Measurement Data
 2: HVAC Example Specifications
 3: SoundPLAN Data – Construction Noise
 4: FHWA-RD-77-108 – Traffic Noise Calculations
 5: SoundPLAN Data – On-Site Generated Noise

Acronyms

CEQA	California Environmental Quality Act
City	City of Escondido
CNEL	community noise equivalent level
dB	decibel
dB(A)	A-weighted Decibel
HVAC	heating, ventilating, and air conditioning
L_{eq}	one-hour equivalent noise level
L_{pw}	sound power level

Executive Summary

The proposed Centre City Shopping Center Project (project) site is located at the intersection of Mission Avenue and Centre City Parkway in Escondido, California. The 2.24-acre site is currently developed with the Palm Tree Motor Lodge and the Wagon Wheel Restaurant. The project would demolish the existing uses on-site and construct a commercial development that would consist of three buildings. Building A would consist of 3,500 square feet of general retail space and a 2,874-square-foot restaurant with a drive-through (6,374 square feet total). Building B would consist of a 2,004-square-foot restaurant/coffee shop with a drive-through, a 2,400-square-foot restaurant without a drive-through, and 1,000 square feet of retail space (5,404 square feet total). Building C would consist of a 4,308-square-foot SuperStar carwash.

This report discusses potential noise impacts from the construction and operation of the project. As part of this assessment, noise levels due to vehicle traffic were calculated and evaluated against City of Escondido (City) noise and land use compatibility guidelines. In addition to compatibility, the potential for noise to impact adjacent uses from future on-site sources and construction activity was assessed. A summary of the findings is provided below.

Construction Noise

Project construction noise would be generated by diesel engine-driven construction equipment used for site preparation and grading, removal of existing structures and pavement, loading, unloading, and placing materials and paving. Construction noise levels are regulated by Chapter 17, Article 12 of the Escondido Municipal Code. According to the Municipal Code, construction noise levels shall not exceed a one-hour average sound level [dB(A) Leq] limit of 75 dB(A) Leq at or within the property lines of any property which is developed and used in whole or in part for residential purposes. Residential uses are currently being constructed south of the project site. There are residential uses located to the north, east, and south of the project site. Residential uses and a hotel are also located west and southwest of the project site.

Construction noise levels were modeled at a series of receivers located at the adjacent property lines. Hourly equivalent construction noise levels would range from 59 to 74 dB(A) Leq at the adjacent property lines. Construction activities would occur over the 8-hour period between 7:00 a.m. and 5:00 p.m. on weekdays. Although the existing adjacent residences would be exposed to construction noise levels that may be heard above ambient conditions, the exposure would be temporary and would not exceed the City's standards. As construction activities would comply with the City Municipal Code Sections 17-234 and 117-238, temporary increases in noise levels from construction activities would be less than significant.

Traffic Noise

The project would contribute traffic to Mission Avenue, Centre City Parkway, Escondido Boulevard, and Washington Avenue. According to Chapter 33, Article 47 of the City's Municipal Code, noise increases, regardless of the extent, that do not result in noise increases in excess of General Plan standards are not considered significant, and noise increases that result in a 3 dB(A) or less incremental increase in noise beyond the General Plan's noise standards are not considered significant. The project would result in a 1 dB or less direct

increase in traffic noise over the existing condition along all affected roadway segments. Therefore, the project would result in less than significant direct impact related to traffic noise. Additionally, the project would result in a 1 dB or less cumulative increase. Therefore, the project's contribution to the cumulative increase is less than cumulatively considerable.

On-site Generated Noise

The primary noise sources on-site would be the car wash (including vacuums and blowers), HVAC equipment, and the drive-through speakers. On-site generated noise levels are regulated by Chapter 17, Article 12 of the City's Municipal Code. There are multi-family residential and commercial uses located adjacent to the project site. The applicable property line noise level limits for multi-family residential uses are 55 dB(A) Leq between 7:00 a.m. and 10 p.m., and 50 dB(A) Leq between 10:00 p.m. and 7:00 a.m. The applicable property line noise level limits for commercial uses are 60 dB(A) Leq between 7:00 a.m. and 10 p.m., and 55 dB(A) Leq between 10:00 p.m. and 7:00 a.m.

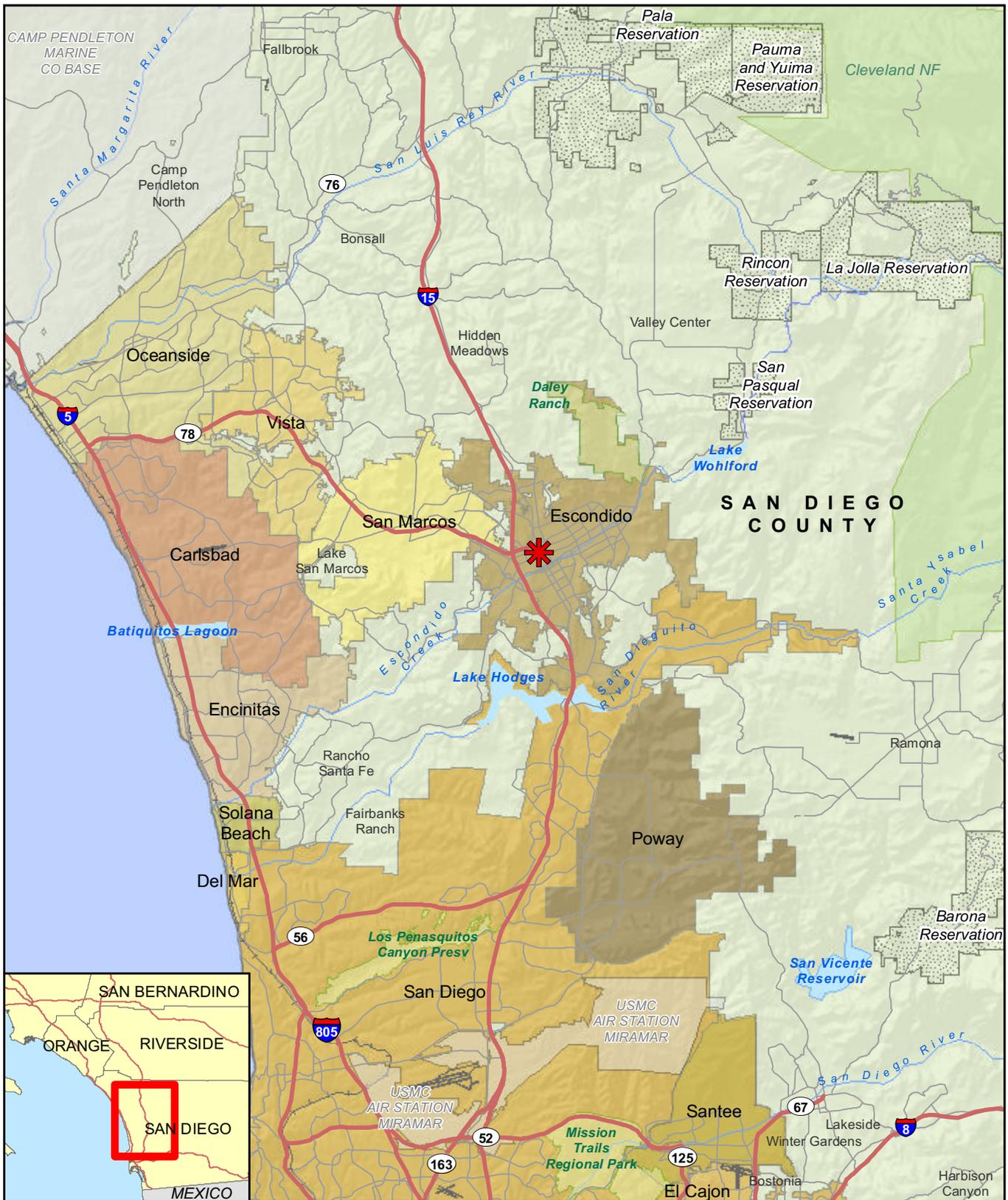
As calculated in this analysis, at the multi-family residential property lines, daytime on-site generated noise levels would range from 49 to 51 dB(A) Leq and nighttime noise levels would range from 36 to 45 dB(A) Leq. At the commercial property lines, daytime on-site generated noise levels would range from 48 to 57 dB(A) Leq and nighttime noise levels would range from 45 to 50 dB(A) Leq. Noise levels would not exceed the applicable Noise Ordinance limits at the property lines.

1.0 Introduction

1.1 Project Description

The project site is located at 425 West Mission Avenue, on the southeast corner of the intersection of West Mission Avenue and Centre City Parkway. Figure 1 shows the regional location. The 2.24-acre project site is currently developed with the Palm Tree Motor Lodge and the Wagon Wheel Restaurant. The lodge consists of three buildings: an L-shaped row of 29 units and a lobby; a rectangular building housing 10 units; and a cabana building adjacent to the pool. Figure 2 shows an aerial photograph of the project vicinity.

The project would demolish the existing uses on-site and construct a commercial development that would consist of three buildings. Building A would consist of 3,500 square feet of general retail space and a 2,874-square-foot restaurant with a drive-through (6,374 square feet total). Building B would consist of a 2,004-square-foot restaurant/coffee shop with a drive-through, a 2,400-square-foot restaurant without a drive-through, and 1,000 square feet of retail space (5,404 square feet total). Building C would consist of a 4,308-square-foot SuperStar carwash. The carwash would include a drive-through tunnel and a maximum of 26 vacuum stalls. Access to the site would be provided from both Centre City Parkway and Mission Avenue. Site access from Centre City Parkway and Mission Avenue would be right-in/right-out only. A northbound right-turn pocket/deceleration lane would be provided at the Centre City Parkway project driveway. The project also includes roadway improvements to create a third northbound through lane on Centre City Parkway. A total of 105 parking stalls would be provided on-site, mostly along the eastern project perimeter. Figure 3 shows the site plan.



 Project Location

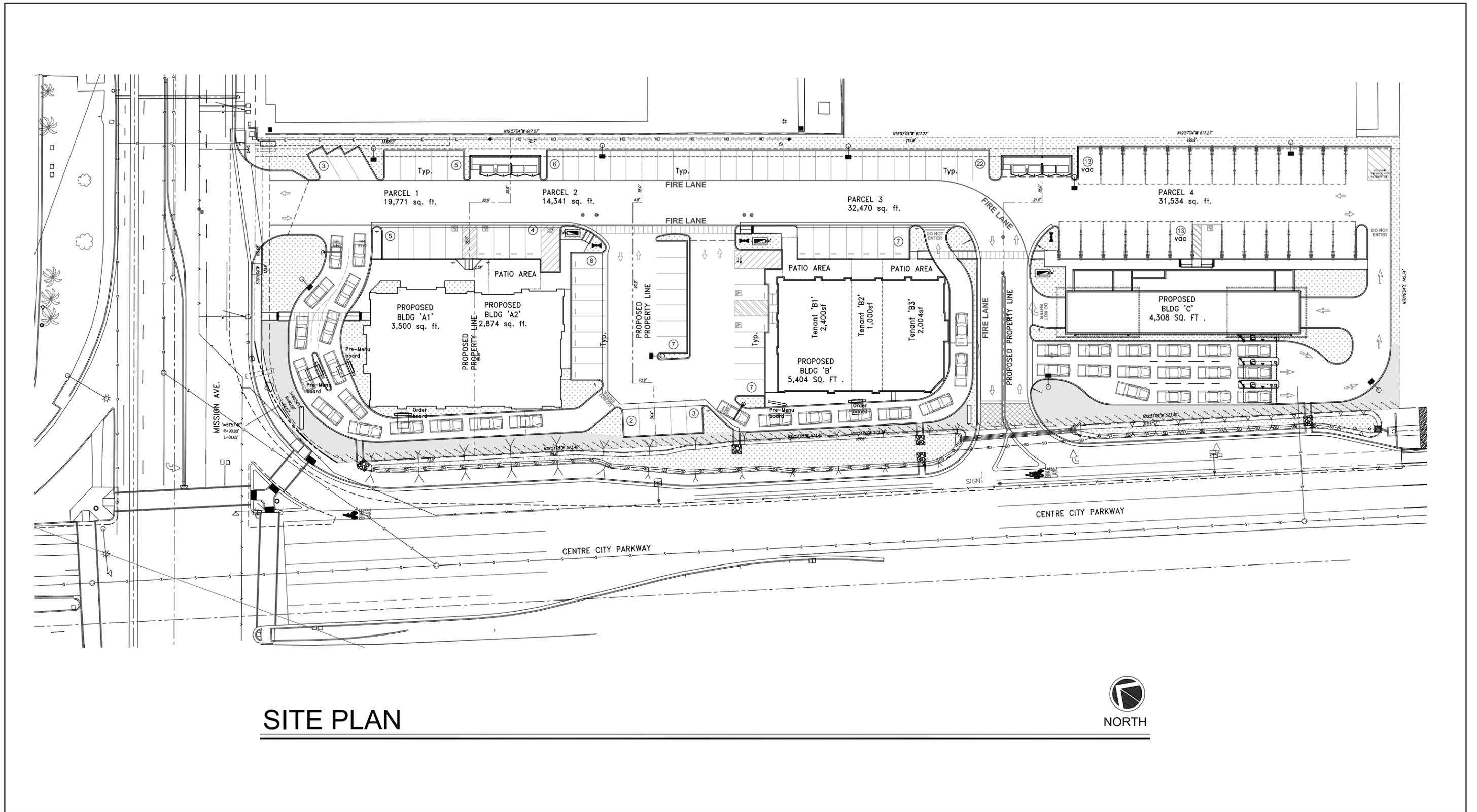
FIGURE 1
Regional Location



 Project Boundary

FIGURE 2

Project Location on Aerial Photograph



SITE PLAN



1.2 Fundamentals of Noise

Sound levels are described in units called the decibel (dB). Decibels are measured on a logarithmic scale that quantifies sound intensity in a manner similar to the Richter scale used for earthquake magnitudes. Thus, a doubling of the energy of a noise source, such as doubling of traffic volume, would increase the noise level by 3 dB; a halving of the energy would result in a 3 dB decrease. However, human perception of noise has no simple correlation with acoustical energy. A change in noise levels is generally perceived as follows: 3 A-weighted dB [dB(A)] barely perceptible, 5 dB(A) readily perceptible, and 10 dB(A) perceived as a doubling or halving of noise (California Department of Transportation 2013).

In technical terms, sound levels are described as either a “sound power level” or a “sound pressure level,” which while commonly confused are two distinct characteristics of sound. Both share the same unit of measure, the dB. However, sound power, expressed as L_{pw} , is the energy converted into sound by the source. As sound energy travels through the air, it creates a sound wave that exerts pressure on receivers such as an ear drum or microphone, the sound pressure level. Sound measurement instruments only measure sound pressure, and limits used in standards are generally sound pressure levels.

The human ear is not equally sensitive to all frequencies within the sound spectrum. To accommodate this phenomenon, the A-scale, which approximates the frequency response of the average young ear when listening to most ordinary everyday sounds, was devised. When people make relative judgments of the loudness or annoyance of a sound, their judgments correlate well with the A-scale sound levels of those sounds. Therefore, the “A-weighted” noise scale is used for measurements and standards involving the human perception of noise. Noise levels using A-weighted measurements are designated with the notation dB(A).

1.2.1 Descriptors

The impact of noise is not a function of loudness alone. The time of day when noise occurs and the duration of the noise are also important. In addition, most noise that lasts for more than a few seconds is variable in its intensity. Consequently, a variety of noise descriptors has been developed. The noise descriptors used for this study are the equivalent noise level (L_{eq}) and the community noise equivalent level (CNEL).

The L_{eq} is the equivalent steady-state noise level in a stated period of time that is calculated by averaging the acoustic energy over a time period; when no period is specified, a 1-hour period is assumed.

The CNEL is a 24-hour equivalent sound level. The CNEL calculation applies an additional 5 dB(A) penalty to noise occurring during evening hours, between 7:00 p.m. and 10:00 p.m., and a 10 dB(A) penalty is added to noise occurring during the night, between 10:00 p.m. and 7:00 a.m. These increases for certain times are intended to account for the added sensitivity of humans to noise during the evening and night.

1.2.2 Propagation

Sound from a localized source (approximating a “point” source) radiates uniformly outward as it travels away from the source in a spherical pattern, known as geometric spreading. The sound level decreases or drops off at a rate of 6 dB(A) for each doubling of the distance.

Traffic noise is not a single, stationary point source of sound. The movement of vehicles makes the source of the sound appear to emanate from a line (line source) rather than a point when viewed over some time interval. The drop-off rate for a line source is 3 dB(A) for each doubling of distance.

The propagation of noise is also affected by the intervening ground, known as ground absorption. A hard site (such as parking lots or smooth bodies of water) receives no additional ground attenuation, and the changes in noise levels with distance (drop-off rate) are simply the geometric spreading of the source. A soft site (such as soft dirt, grass, or scattered bushes and trees) provides an additional ground attenuation value of 1.5 dB(A) per doubling of distance. Thus, a point source over a soft site would drop off at 7.5 dB(A) per doubling of distance.

2.0 Applicable Noise Standards City of Escondido

2.1 General Plan

The Community Protection Element of the City General Plan establishes noise and land use compatibility standards and outlines goals and policies to achieve these standards. Table 1 summarizes the land use compatibility standards.

The Community Protection Element also provides standards for projects that could significantly alter existing noise levels. It states that “noise impacts of proposed projects on existing land uses should be evaluated in terms of potential for adverse community response based on a significant increase in existing noise levels. For example, if an area is currently below the maximum normally acceptable noise level, an increase in noise up to the maximum allowable level should not necessarily be allowed. Projects increasing noise levels by 5 dB or greater should be considered as generating a significant impact and should require mitigation.” Table 2 summarizes the exterior incremental environmental noise impact standards for noise-sensitive uses.

Table 1 Land Use Compatibility Standards								
Land Use Category	CNEL							
	55	60	65	70	75	80	85	
Residential – Single Family, Duplex, Mobile Home								
Residential – Multi-Family, Residential Mixed Use								
Transient Lodging, Motels, Hotels								
Schools, Libraries, Churches, Hospitals, Nursing Home								
Auditoriums, Concert Halls, Amphitheaters								
Sports Arena, Outdoor Spectator Sports								
Playgrounds, Parks								
Golf Courses, Riding Stables, Water Recreation, Cemeteries								
Office Buildings, Business Commercial, Professional								
Industrial, Manufacturing, Utilities, Agriculture								
	Normally Acceptable	Specified land use is satisfactory, based upon the assumption that buildings involved are of normal conventional construction, without any special noise insulation requirements.						
	Conditionally Acceptable	New construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made and needed noise insulation features included in the design. Conventional construction, but with closed windows and fresh air supply systems or air conditioning will usually suffice.						
	Normally Unacceptable	New construction or development should generally be discouraged. If new construction or development does proceed, a detailed analysis of the noise reduction requirements must be made with noise insulation features included in the design.						
	Clearly Unacceptable	New construction or development should generally not be undertaken.						
SOURCE: City of Escondido 2012.								

Residences and Buildings where People Normally Sleep ^a		Institutional Land Uses with Primarily Daytime and Evening Uses ^b	
Existing L_{dn}	Allowable Noise Increment	Existing Peak Hour L_{eq}	Allowable Noise Increment
45	8	45	12
50	5	50	9
55	3	55	6
60	2	60	5
65	1	65	3
70	1	70	3
75	0	75	1
80	0	80	0

Noise levels are measured at the property line of the noise-sensitive use.
^aThis category includes homes, hospitals, and hotels where a nighttime sensitivity to noise is assumed to be of utmost importance.
^bThis category includes schools, libraries, theaters, and churches where it is important to avoid interference with such activities as speech, meditation, and concentration on reading material.
 SOURCE: Federal Transit Administration 2006; City of Escondido 2012.

2.2 Municipal Code

2.2.1 Chapter 17, Article 12, Noise Abatement and Control (Noise Ordinance)

The Noise Ordinance establishes prohibitions for disturbing, excessive, or offensive noise, and provisions such as sound level limits for the purpose of securing and promoting the public health, comfort, safety, peace, and quiet for its citizens. Table 3, City of Escondido Exterior Sound Limit Levels, shows the allowable noise levels at any point on or beyond the boundaries of the property on which the sound is produced, and corresponding times of day for each zoning designation. The noise standards apply to each property or portion of property substantially used for a particular type of land use reasonably similar to the land use types shown in Table 3. Where two or more dissimilar land uses occur on a single property, the more restrictive noise limits apply.

Environmental noise is measured by the L_{eq} for the hours as specified in Table 3. If the noise is continuous, the L_{eq} for any hour will be represented by any lesser period within that hour. If the noise is intermittent, the L_{eq} for any hour may be represented by a time period typical of the operating cycle, but the measurement period must be 15 minutes or longer. If the measured ambient level exceeds the permissible noise level, the allowable noise exposure standard is the ambient noise level. Noise restrictions are listed in Sections 17-230 through 17-241 of the Noise Ordinance, such as specific regulations pertaining to motor vehicles and burglar alarms. Additional sections of the Noise Ordinance applicable to this analysis include Sections 17-234 and 17-238.

Table 3 City of Escondido Exterior Sound Limit Levels		
Zone	Time	Applicable Limit 1-hour Average Sound Level (Decibels)
Residential zones	7:00 a.m. to 10:00 p.m.	50
	10:00 p.m. to 7:00 a.m.	45
Multi-residential zones	7:00 a.m. to 10:00 p.m.	55
	10:00 p.m. to 7:00 a.m.	50
Commercial zones	7:00 a.m. to 10:00 p.m.	60
	10:00 p.m. to 7:00 a.m.	55
Light Industrial/Industrial Park zones	Anytime	70
General Industrial zones	Anytime	75
SOURCE: City of Escondido Municipal Code.		

2.2.2 Chapter 17, Article 12, Construction Equipment and Grading

Sections 17-234 and 17-238 provide regulations for construction equipment and grading activities.

Section 17-234

Except for emergency work, the following applies to all construction equipment operating in the City:

- a) It shall be unlawful for any person, including the City of Escondido, to operate construction equipment at any construction site, except on Monday through Friday during a week between the hours of 7:00 a.m. and 6:00 p.m. and on Saturdays between the hours of 9:00 a.m. and 5:00 p.m., and provided that the operation of such construction equipment complies with the requirements of subsection (c) of this section.
- b) It shall be unlawful for any person, including the City of Escondido, to operate construction equipment at any construction site on Sundays and on days designated by the President, Governor, or City Council as public holidays.
- c) No construction equipment or combination of equipment, regardless of age or date of acquisition, shall be operated so as to cause noise in excess of a one-hour average sound level limit of 75 dB at any time, unless a variance has been obtained in advance from the City Manager.

Section 17-238

- a) It shall be unlawful for any person, including the City of Escondido, to do any authorized grading at any construction site, except on Mondays through Fridays during a week between the hours of 7:00 a.m. and 6:00 p.m. and, provided a variance

has been obtained in advance from the City Manager, on Saturdays from 10:00 a.m. to 5:00 p.m.

- b) For the purpose of this section, “grading” shall include, but not be limited to, compacting, drilling, rock crushing or splitting, bulldozing, clearing, dredging, digging, filling and blasting.
- c) In addition, any equipment used for grading shall not be operated so as to cause noise in excess of a one-hour sound level limit of 75 dB at any time when measured at or within the property lines of any property which is developed and used in whole or in part for residential purposes, unless a variance has been obtained in advance from the City Manager.

2.2.3 Chapter 33, Article 47, Environmental Quality Regulations

The Environmental Quality Regulations implement the California Environmental Quality Act (CEQA) and the CEQA Guidelines by applying the provisions and procedures contained in CEQA to development projects proposed within the City of Escondido. Section (a)(2) pertains to noise impacts, specifically noise impacts related to the widening of Mobility and Infrastructure Element streets. According to this section, the following incremental noise increases are generally not considered significant:

- a) Short- or long-term increases, regardless of the extent, that do not result in noise increases in excess of general plan standards,
- b) Short- or long-term increases that result in a 3 dB(A) or less incremental increase in noise beyond the general plan’s noise standards.

3.0 Existing Conditions

Existing noise levels in the vicinity of the project site were measured on December 6, 2016, using a Larson-Davis Model LxT, Type 1 Integrating Sound Level Meter, serial number 3899. The following parameters were used:

Filter:	A-weighted
Response:	Slow
Interval Period	1 minute
Time History Period:	5 seconds

The meter was calibrated before and after each measurement. The meter was set 5 feet above the ground level for each measurement.

Noise measurements were taken to obtain typical ambient noise levels at the project site and in the vicinity. The weather was cool and cloudy with a slight breeze, one to three miles per hour on average. Three 15-minute measurements were taken, as described below. The

primary sources of on-site noise were due to traffic on Centre City Parkway and Mission Avenue. The measurement locations are shown on Figure 4, and detailed data is contained in Attachment 1.

Measurement 1 was located in a vacant lot west of the project site, approximately 50 feet west of Centre City Parkway. The main noise source at this location was vehicle traffic on Centre City Parkway. Secondary sources of noise included vehicle traffic on Mission Avenue, wind, and bird vocalizations.

Measurement 2 was located near the south of the project site, approximately 50 feet east of Centre City Parkway. The main noise source at this location was vehicle traffic on Centre City Parkway. Secondary sources of noise included vehicle traffic on Mission Avenue and bird vocalizations.

Measurement 3 was located at the northwestern project corner of the project site, approximately 50 feet south of Mission Avenue and 50 feet east of Centre City Parkway. The main noise source at this location was vehicle traffic on Mission Avenue and Centre City Parkway.

Noise measurements are summarized in Table 4. Traffic counts are summarized in Table 5.

Measurement	Location	Time	Noise Sources	L _{eq}	L ₉₀
1	West of the project site, 50 feet west of Centre City Parkway	11:47 a.m.–12:02 p.m.	Vehicle traffic on Centre City Parkway	63.1	54.1
2	Near southern project boundary, 50 feet east of Centre City Parkway	1:00 p.m.–1:15 p.m.	Vehicle traffic on Centre City Parkway	62.5	55.5
3	Near the northwest corner of the project site, 50 feet south of Mission Avenue and 50 feet east of Centre City Parkway	1:47 p.m.–2:02 p.m.	Vehicle traffic on Mission Avenue and Centre City Parkway	67.6	60.5

Note: Noise measurement data is contained in Attachment 1.

Measurement	Roadway	Direction	Autos	Medium Trucks	Heavy Trucks	Buses	Motorcycles
1	Centre City Parkway	Northbound	55	5	5	1	0
		Southbound	209	5	10	0	0
2	Centre City Parkway	Northbound	184	3	3	0	0
		Southbound	184	2	12	1	1
3	Mission Avenue	Westbound	67	0	0	0	0
		Eastbound	193	0	1	0	0



-  Project Boundary
-  Noise Measurement Locations

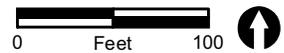


FIGURE 4

Noise Measurement Locations

4.0 Analysis Methodology

4.1 Construction Noise Analysis

Project construction noise would be generated by diesel engine-driven construction equipment used for site preparation and grading, removal of existing structures and pavement, loading, unloading, and placing materials and paving. Diesel engine-driven trucks also would bring materials to the site and remove the soils from excavation.

Construction equipment with a diesel engine typically generates maximum noise levels from 80 to 90 dB(A) L_{eq} at a distance of 50 feet (Federal Transit Administration 2006). Table 6 summarizes typical construction equipment noise levels.

Equipment	Noise Level at 50 feet [dB(A) L_{eq}]
Air Compressor	81
Backhoe	80
Compactor	82
Concrete Mixer	85
Crane	81
Dozer	85
Excavator	81
Grader	85
Jack Hammer	88
Loader	85
Paver	89
Pump	76
Roller	74
Scraper	89
Truck	88

SOURCE: Federal Transit Administration 2006.

During excavation, grading, and paving operations, equipment moves to different locations and goes through varying load cycles, and there are breaks for the operators and for non-equipment tasks, such as measurement. Although maximum noise levels may be 85 to 90 dB(A) at a distance of 50 feet during most construction activities, hourly average noise levels would be lower when taking into account the equipment usage factors. For the project, the loudest phase of construction would be the grading and excavation phase. Construction noise levels were calculated assuming the loudest three pieces of construction equipment active simultaneously.

4.2 Traffic Noise Analysis

Off-site traffic noise was modeled using the Federal Highway Administration's Traffic Noise Prediction Model algorithms and reference levels. Traffic noise levels were calculated

at 50 feet from the centerline of the affected roadways to determine the noise level increase associated with the project. The model uses various input parameters, such as traffic volumes; vehicle mix, distribution, and speed.

The main source of traffic noise from the project site would be vehicle traffic on Mission Avenue, Centre City Parkway, Escondido Boulevard, and Washington Avenue. Traffic noise levels were calculated based on the total average daily traffic volume on each roadway segment. For modeling purposes, “hard” ground conditions were used for the analysis of future conditions, since a majority of the project area is paved and the hard site provides the most conservative impact assessment.

Existing, existing plus project, cumulative (cumulative projects and existing), and cumulative plus project traffic volumes on Mission Avenue, Centre City Parkway, Escondido Boulevard, and Washington Avenue were obtained from the project traffic report (Kimley-Horn 2017). Based on field traffic counts (see Table 5), the vehicle classification mix for area roadways is 94.8 percent automobiles, 1.6 percent medium trucks, 3.3 percent heavy trucks, 0.2 percent buses, and 0.1 percent motorcycles. The vehicle types included in the model are automobiles, medium trucks, and heavy trucks. For the purposes of calculating vehicle traffic noise levels, motorcycles were included in the automobile category and buses were included in the medium truck category. Table 7 summarizes the future traffic volumes and vehicle classification mixes for the area roadway segments. Modeled noise levels do not account for shielding provided by intervening barriers and structures.

4.3 On-Site Generated Noise Analysis

The primary noise sources on-site would be the car wash (including vacuums and blowers), HVAC equipment, and the drive-through speakers. Noise levels due to on-site sources were modeled using SoundPLAN (Navcon Engineering, Inc. 2015). The SoundPLAN program models noise propagation following the International Organization for Standardization method *ISO 9613-2 – Acoustics, Attenuation of Sound during Propagation Outdoors*. The model calculates noise levels at selected receiver locations using input parameter estimates such as total noise generated by each noise source, distances between sources, barriers, and receivers; and shielding provided by intervening terrain, barriers, and structures.

4.3.1 Heating, Ventilation, and Air Conditioning Units

The project would include roof-mounted heating, ventilation, and air conditioning (HVAC) units. Property line noise levels due to HVAC equipment were calculated. It is not known at this time which manufacturer, brand, or model of unit or units will be selected for use in the project. HVAC units would be located on the rooftops of the buildings. Typically, a capacity of 1-ton per 500 square feet would be required. Based on this ratio, the 6,374-square-foot Building A would require a 13-ton capacity, and the 5,404-square-foot Building B would require a 11-ton capacity.

**Table 7
Future Vehicle Traffic Parameters**

Roadway Segment	Average Daily Traffic (ADT)				Vehicle Classification Mix (Percent of ADT)			Speed (mph)
	Existing	Existing + Project	Cumulative	Cumulative + Project	Autos	Medium Trucks	Heavy Trucks	
Mission Avenue								
Rock Springs Road to Quince Street	22,209	22,959	22,915	23,665	94.9	1.8	3.3	35
Quince Street to Centre City Parkway	25,949	26,819	26,891	27,761	94.9	1.8	3.3	35
Centre City Pkwy to Escondido Boulevard	23,416	25,186	24,637	26,407	94.9	1.8	3.3	35
Escondido Blvd to Broadway	18,101	18,911	18,675	19,485	94.9	1.8	3.3	35
Centre City Pkwy								
El Norte Parkway to Decatur Way	22,624	23,204	23,179	23,759	94.9	1.8	3.3	55
Decatur Way to State Route 78	25,756	26,396	26,374	27,014	94.9	1.8	3.3	55
State Route 78 to Mission Avenue	32,113	33,333	33,018	34,238	94.9	1.8	3.3	55
Mission Avenue to Washington Avenue	22,266	24,206	23,654	25,594	94.9	1.8	3.3	45
Washington Avenue to Valley Parkway	22,985	23,445	23,697	24,157	94.9	1.8	3.3	45
Escondido Boulevard								
Mission Avenue to Washington Avenue	14,812	16,582	15,640	17,710	94.9	1.8	3.3	35
Washington Avenue to Valley Parkway	14,278	14,978	15,095	15,795	94.9	1.8	3.3	35
Washington Avenue								
Quince Street to Centre City Parkway	18,166	18,916	18,661	19,411	94.9	1.8	3.3	40
Centre City Parkway to Escondido Boulevard	18,471	19,191	19,152	19,872	94.9	1.8	3.3	35
Escondido Boulevard to Broadway	18,795	19,545	19,323	20,073	94.9	1.8	3.3	35
East of Broadway	19,400	19,750	19,890	20,240	94.9	1.8	3.3	35
SOURCE: Kimley-Horn 2017.								

As a conservative analysis, two 6-ton HVAC units (Trane Model T/YSC072ED) were modeled at Building A and Building B. The 6-ton HVAC unit was selected as it would generate 5 dB more than a similar 5-ton Trane HVAC unit and 6 dB more than a similar 10-ton HVAC unit (Attachment 2). Based on review of manufacturer specifications for the sample units, a representative noise level for a 6-ton unit would be a sound power level of 96 dB. This is approximately equal to a sound pressure level of 85 dB(A) L_{eq} at 3.28 feet (1 meter). For the daytime hours, all units were modeled at full capacity. For the nighttime hours, it was assumed that the units would operate a maximum of 50 percent of the time, i.e., an average of 30 minutes an hour.

4.3.2 Car Wash

The noise source of greatest concern for a car wash would be the blowers located at the north end of the car wash and the vacuums located east of the car wash building. The car wash tunnel would be approximately 125 feet long and 32 feet wide, with an entrance and an exit that are approximately 16 feet wide and 12 feet tall. Typically, blowers are located 10 to feet 15 inside the car wash tunnel. Noise from the blowers and car wash equipment would emanate from the openings at the entrance and the exit of the car wash. The noise level spectra from the entrance and exit were obtained from a noise study prepared for a car wash similar to the one that is proposed. According to the noise study, the car wash would have a sound power level of 88.2 dB(A) from the entrance and a sound power of 96.9 dB(A) at the exit (MD Acoustics 2016).

The car wash would include a maximum of 26 vacuum stalls located east of the car wash building. The vacuums would be evenly spaced in 26 parking spots. The noise level spectrum for the vacuums was obtained from the same noise study discussed above. According to the noise study, each vacuum would have a sound power level of 74.1 dB(A) (MD Acoustics 2016).

For a worst-case analysis, it was assumed in the model that the blowers and all vacuums would operate simultaneously and continuously within the car wash hours, 7:30 a.m. to 7:00 p.m. in the winters and 7:30 a.m. to 8:00 p.m. in the summers. The car wash would not be open during the nighttime hours. Noise levels were modeled at a series of 24 receivers located at the adjacent uses.

4.3.3 Drive-Through

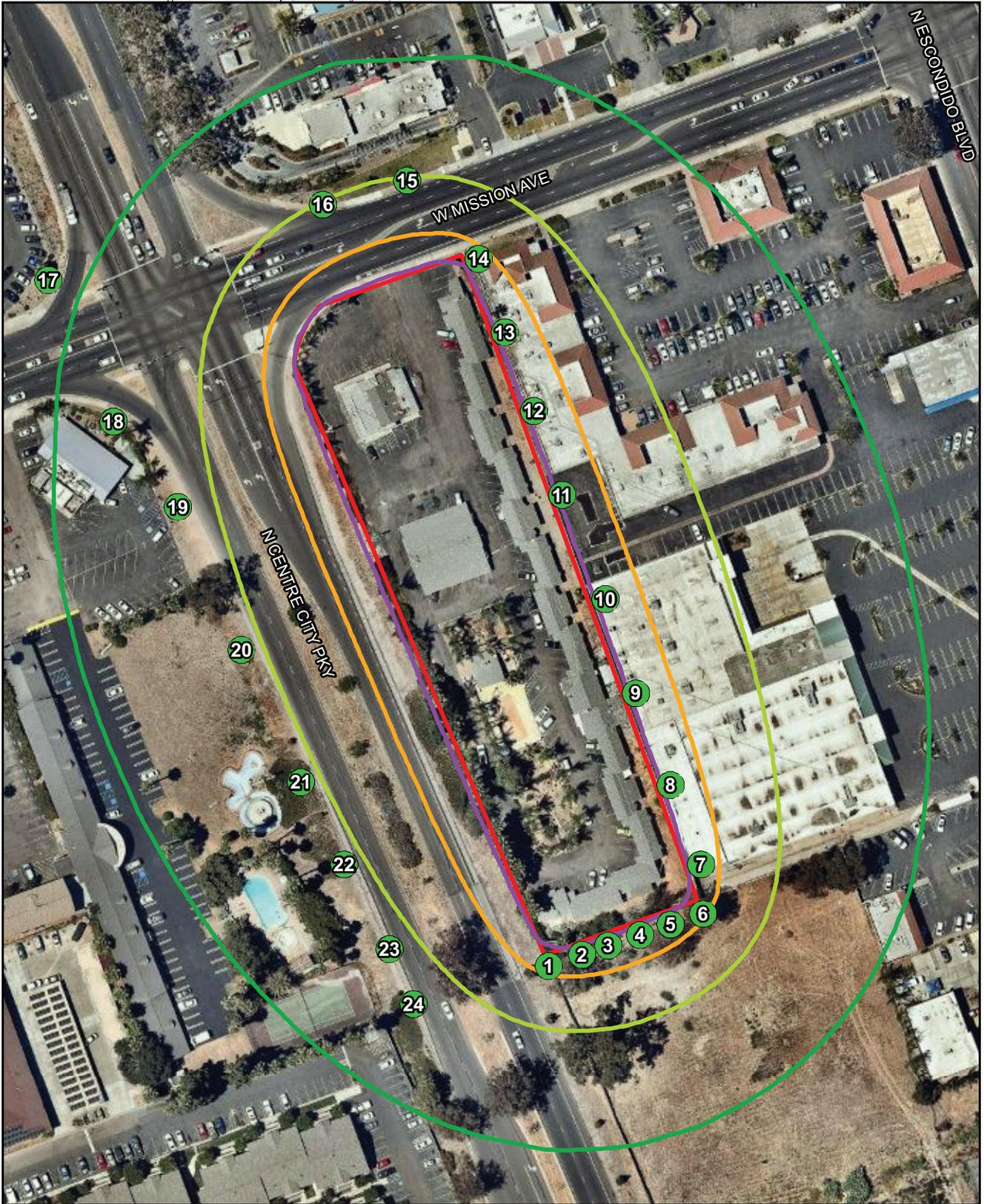
The project proposes two drive-through restaurants. Each restaurant would include a one-way, 12-foot-wide drive-through wrapping around the western sides of the buildings. The drive-through speakers were modeled as point sources 4 feet high, calibrated to 61.2 dB(A) L_{eq} at 10 feet, and operational 50 percent of the daytime and 20 percent of the nighttime, based on measurements and observations taken at a McDonalds restaurant (Michael Brandman Associates 2013).

5.0 Future Acoustical Environment and Impacts

5.1 Construction Noise

Noise associated with the demolition, grading, building, and paving for the project would potentially result in short-term impacts to surrounding residential properties. Residential uses are currently being constructed south of the project site. There are residential uses located to the north, east, and south of the project site. Residential uses and a hotel are also located west and southwest of the project site. A variety of noise-generating equipment would be used during the construction phase of the project, such as excavators, backhoes, front-end loaders, and concrete saws, along with others. The exact number and pieces of construction equipment required are not known at this time. Although maximum noise levels may be 85 to 90 dB(A) at a distance of 50 feet during most construction activities, hourly average noise levels would be lower when taking into account the equipment usage factors. The loudest phase of construction would be the grading/excavation phase and would include dozers, loaders, and excavators. Construction noise levels were calculated based on all three pieces of equipment being active simultaneously.

Construction noise is considered a point source and would attenuate at approximately 6 dB(A) for every doubling of distance. An excavator generates a maximum noise level of 85 dB(A) at 50 feet, a front-end loader generates a maximum noise level of 80 dB(A) at 50 feet, and a dozer generates a maximum noise level of 85 dB(A) at 50 feet. All three pieces of equipment generally operate with a usage factor, the ration of an hour spent at full power, of 40 percent (Federal Highway Administration 2006). Average hourly noise levels due to simultaneous activity would be 85 dB(A) L_{eq} at 50 feet, or a sound power level of approximately 117 dB(A). To reflect the nature of grading and construction activities, equipment was modeled as an area source distributed over the project footprint. The total sound energy of the area source was modeled with all pieces of equipment operating simultaneously. Noise levels were modeled at a series of 24 receivers located at the adjacent property lines. The results are summarized in Table 8. Modeled receiver locations and construction noise contours are shown in Figure 5. SoundPLAN data is contained in Attachment 3.



 Project Boundary

 Modeled Receiver Locations

Construction Contour Lines

 60 dB(A) L_{eq}

 65 dB(A) L_{eq}

 70 dB(A) L_{eq}

 75 dB(A) L_{eq}



FIGURE 5

Construction Noise Contours and Modeled Receivers

Receiver	Noise Level [dB(A) L _{eq}]
1	71
2	73
3	73
4	73
5	73
6	72
7	74
8	71
9	74
10	73
11	74
12	74
13	73
14	72
15	65
16	65
17	59
18	62
19	64
20	64
21	64
22	64
23	64
24	63

As shown, construction noise levels would range from 59 to 74 dB(A) L_{eq} at the adjacent property lines. Construction activities would generally occur over the 8-hour period between 7:00 a.m. and 5:00 p.m. on weekdays. Although the existing adjacent residences would be exposed to construction noise levels that may be heard above ambient conditions, the exposure would be temporary and would not exceed the City's standards. As construction activities would comply with the City Municipal Code Sections 17-234 and 117-238, temporary increases in noise levels from construction activities would be less than significant.

5.2 Traffic Noise

The project would increase traffic volumes on local roadways. However, the project would not substantially alter the vehicle classifications mix on local or regional roadways, nor would the project alter the speed on an existing roadway or create a new roadway. Thus, the primary factor affecting off-site noise levels would be increased traffic volumes. While changes in noise levels would occur along any roadway where project-related traffic occurs, for noise assessment purposes, noise level increases are assumed to be greatest nearest the project site, as this location would represent the greatest concentration of project-related traffic.

Based on the traffic report, the project would generate 5,931 trips (Kimley-Horn 2017). The vehicles associated with project trips would utilize the surrounding roadway network including Mission Avenue, Centre City Parkway, Escondido Boulevard, and Washington Avenue.

As discussed in Section 1.2, doubling of the energy of a noise source, such as traffic volumes on a roadway, would result in a 3 dB(A) increase in noise levels (California Department of Transportation 2013). As stated in Section 2.2.3, noise increases, regardless of the extent, that do not result in noise increases in excess of General Plan standards are not considered significant, and noise increases that result in a 3 dB(A) or less incremental increase in noise beyond the General Plan's noise standards are not considered significant.

Table 9 presents a conservative assessment of traffic noise levels based on the Existing, Existing plus Project, Cumulative (cumulative projects and existing), and Cumulative plus Project noise levels generated by traffic. Table 9 also summarizes the direct and cumulative traffic noise level increases due to the project. Noise level calculations are contained in Attachment 4.

As shown in Table 9, the project would result in a 1 dB or less direct increase in traffic noise over the existing condition along all affected roadway segments. Therefore, the project would result in less than significant direct impact related to traffic noise. Additionally, the project would result in a 1 dB or less cumulative increase. Therefore, the project's contribution to the cumulative increase is less than cumulatively considerable.

5.3 On-site Noise

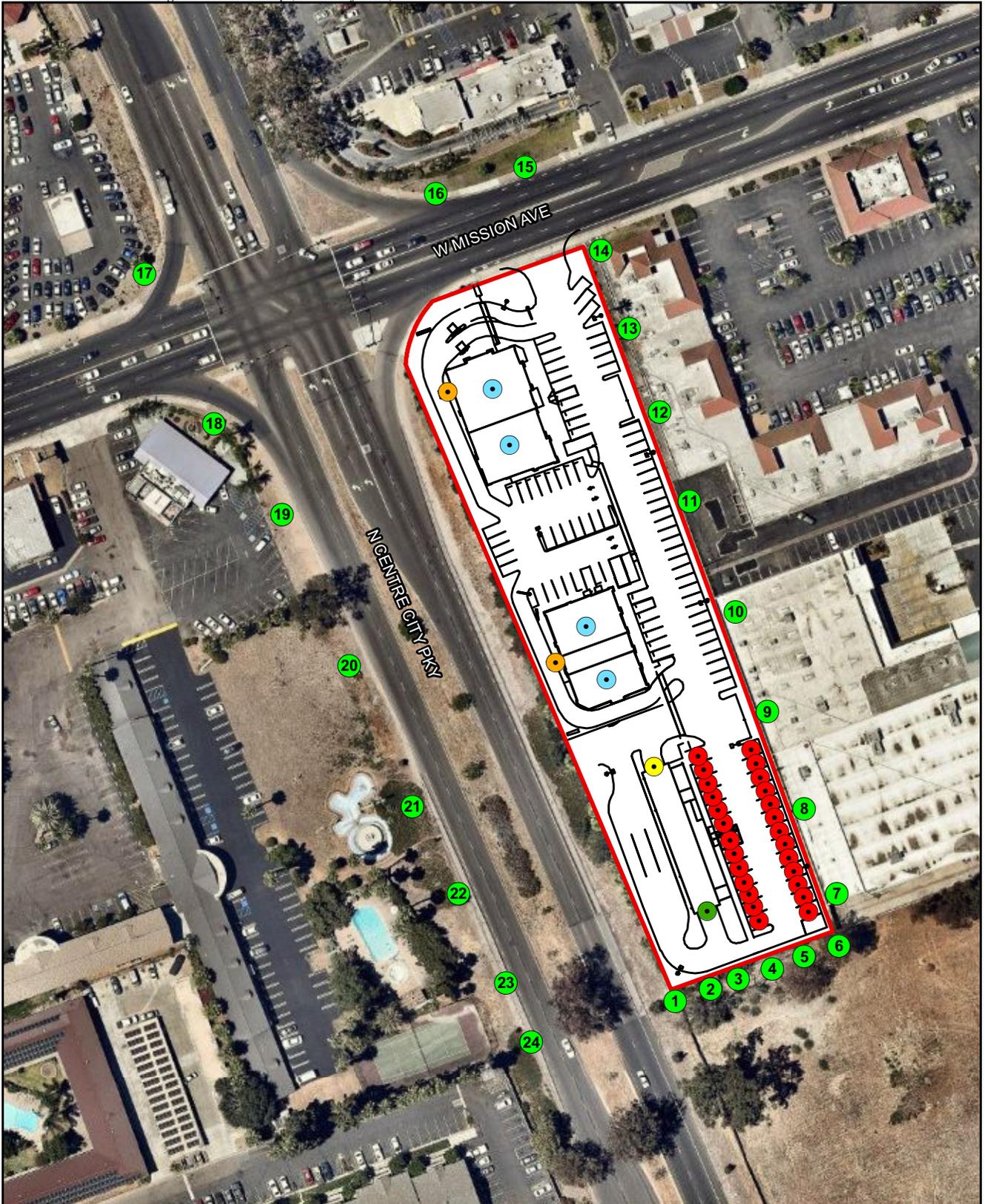
The primary noise sources on-site would be the car wash (including vacuums and blowers), HVAC equipment, and the drive-through speakers. Using the on-site noise source parameters discussed in Section 4.2, Operation Noise Analysis, noise levels were modeled at a series of 24 receivers located at the adjacent property lines. Modeled noise levels took into account shielding provided by the proposed buildings as well as the 5.5-foot screening wall that is currently being constructed along the northern boundary of the multi-family development to the south of the project site.

Modeled receivers and the locations of the modeled on-site noise sources are shown in Figure 6. Modeled data is included in Attachment 5. Future projected daytime noise levels are summarized in Table 10, and daytime noise contours for on-site noise sources are shown in Figure 7. Future projected nighttime noise levels are summarized in Table 11, and nighttime noise contours for on-site noise sources are shown in Figure 8.

As shown in Tables 10 and 11, at the multi-family residential property lines, daytime on-site generated noise levels would range from 49 to 51 dB(A) L_{eq} and nighttime noise levels would range from 36 to 45 dB(A) L_{eq} . At the commercial property lines, daytime on-site generated noise levels would range from 48 to 57 dB(A) L_{eq} and nighttime noise levels would range from 45 to 50 dB(A) L_{eq} . Noise levels would not exceed the applicable Noise Ordinance limits at the property lines.

**Table 9
Traffic Noise Level with and without Project and Ambient Noise Increases**

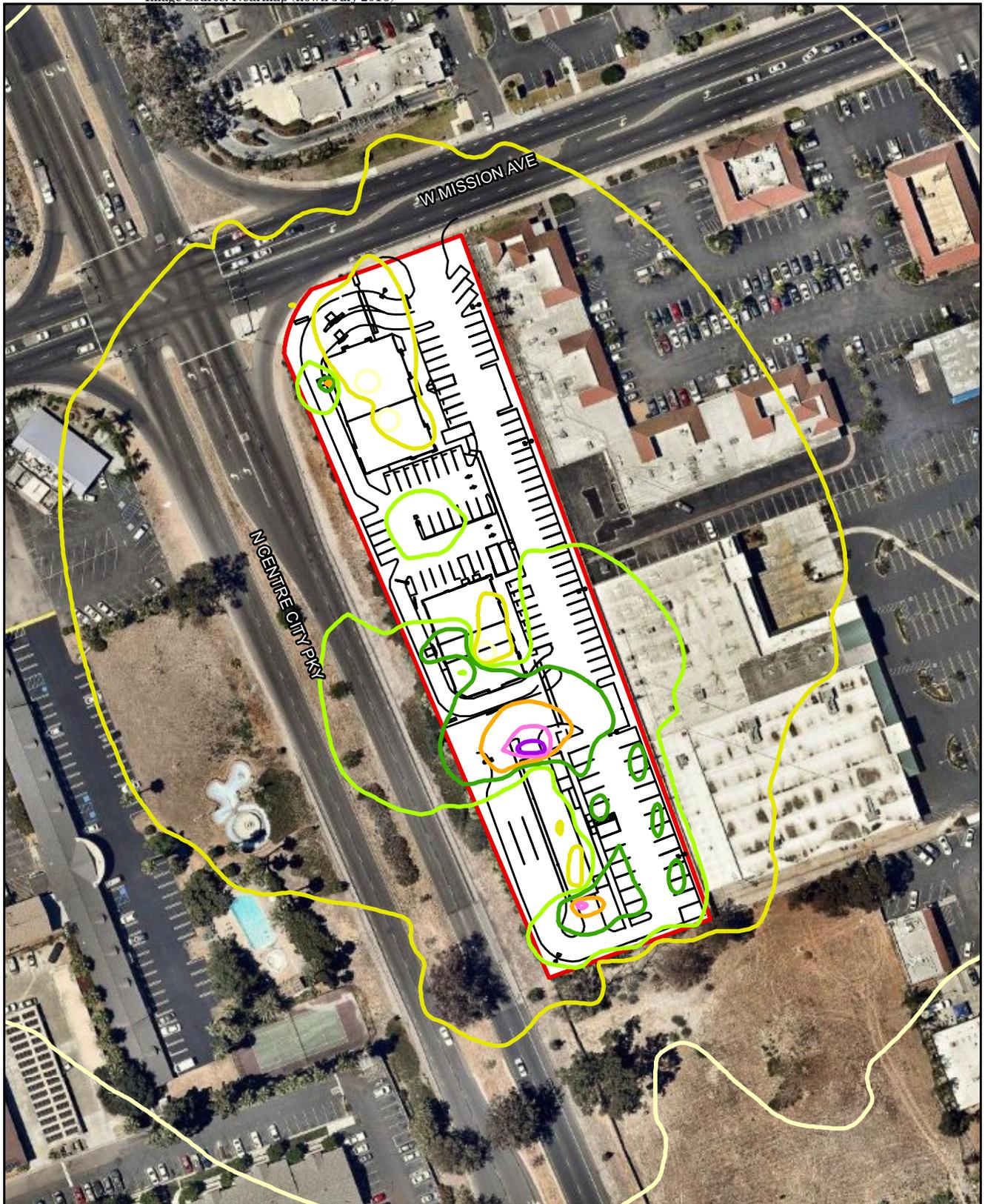
Roadway	From	To	Existing	Existing + Project	Direct Increase	Cumulative	Cumulative + Project	Cumulative Increase
Mission Avenue	Rock Springs Road	Quince Street	71	71	0	71	71	0
	Quince Street	Centre City Parkway	72	72	0	72	72	0
	Centre City Parkway	Escondido Boulevard	71	71	0	71	72	1
	Escondido Boulevard	Broadway	70	70	0	70	70	0
Centre City Parkway	El Norte Parkway	Decatur Way	75	75	0	75	75	0
	Decatur Way	State Route78	76	76	0	76	76	0
	State Route78	Mission Avenue	77	77	0	77	77	0
	Mission Avenue	Washington Avenue	73	73	0	73	74	1
Escondido Boulevard	Washington Avenue	Valley Parkway	69	69	0	69	69	0
	Mission Avenue	Washington Avenue	69	70	1	69	70	1
Washington Avenue	Quince Street	Centre City Parkway	71	71	0	71	71	0
	Centre City Parkway	Escondido Boulevard	70	70	0	70	70	0
	Escondido Boulevard	Broadway	70	70	0	70	70	0
	East of Broadway		70	70	0	70	71	1



- Project Boundary
- Modeled Receiver Locations
- Site Plan
- Car Wash Entrance
- Car Wash Exit
- Drive-Thru Speaker
- HVAC
- Vacuums



FIGURE 6

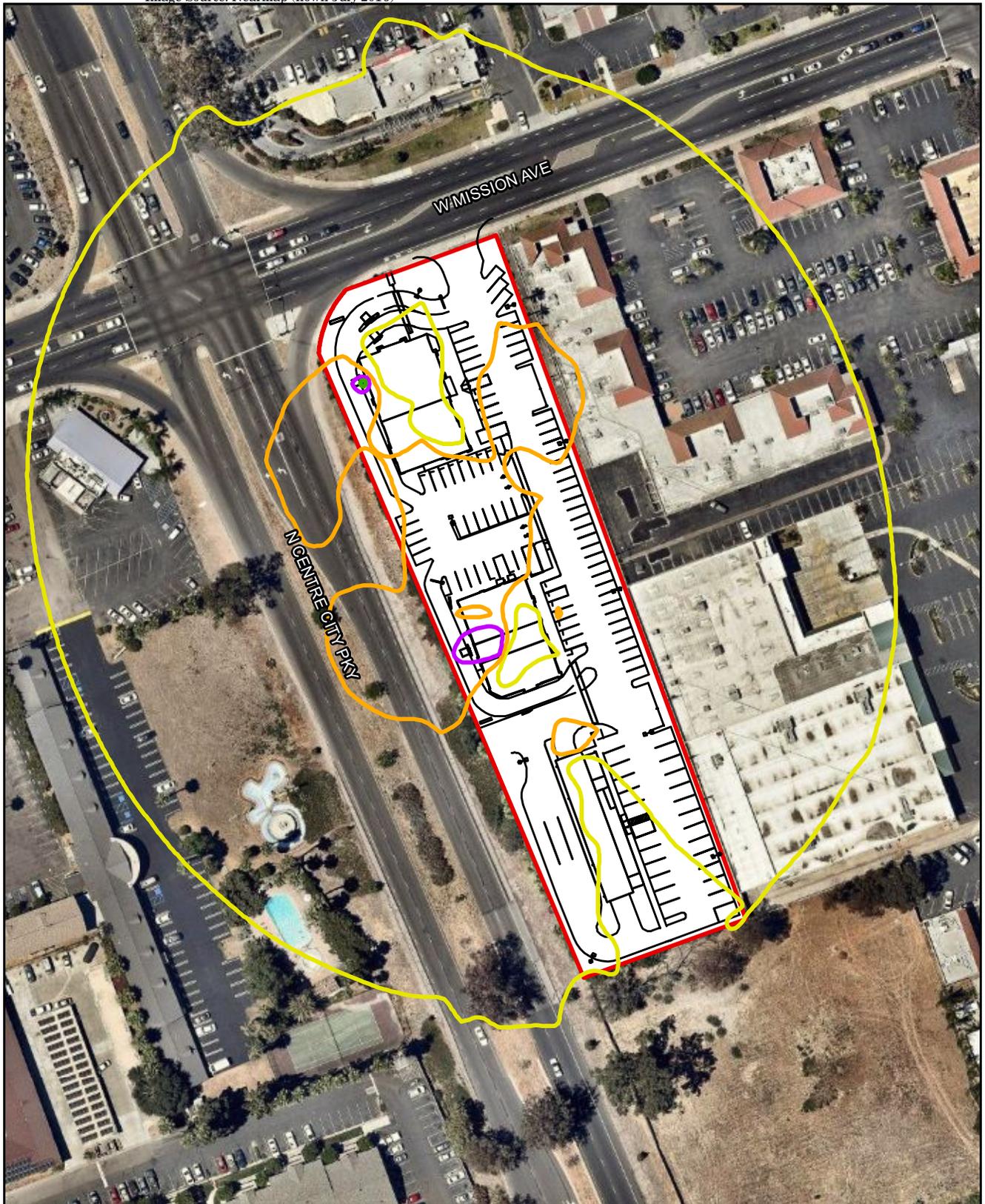


- Project Boundary
- Site Plan
- 45 dB(A) L_{eq}
- 50 dB(A) L_{eq}
- 55 dB(A) L_{eq}
- 65 dB(A) L_{eq}
- 70 dB(A) L_{eq}
- 75 dB(A) L_{eq}



FIGURE 7

Daytime Operation Noise Level Contours



Project Boundary **Nighttime Operation Contours**

— Site Plan

— 45 dB(A) L_{eq}

— 50 dB(A) L_{eq}

— 55 dB(A) L_{eq}

— 60 dB(A) L_{eq}



FIGURE 8

Receiver	Zone	Daytime Noise Level [dB(A) L _{eq}]	Noise Ordinance Limit [dB(A) L _{eq}]
1	Multi-Family	50	55
2	Multi-Family	51	55
3	Multi-Family	49	55
4	Multi-Family	49	55
5	Multi-Family	49	55
6	Multi-Family	49	55
7	Commercial	54	60
8	Commercial	54	60
9	Commercial	57	60
10	Commercial	56	60
11	Commercial	54	60
12	Commercial	54	60
13	Commercial	53	60
14	Commercial	52	60
15	Commercial	50	60
16	Commercial	50	60
17	Commercial	48	60
18	Commercial	51	60
19	Commercial	52	60
20	Commercial	53	60
21	Commercial	53	60
22	Commercial	51	60
23	Commercial	49	60
24	Multi-Family	49	55

Table 11
Nighttime On-Site Generated Noise Levels

Receiver	Zone	Nighttime Noise Level [dB(A) L _{eq}]	Noise Ordinance Limit [dB(A) L _{eq}]
1	Multi-Family	45	50
2	Multi-Family	45	50
3	Multi-Family	36	50
4	Multi-Family	37	50
5	Multi-Family	42	50
6	Multi-Family	44	50
7	Commercial	45	55
8	Commercial	47	55
9	Commercial	48	55
10	Commercial	50	55
11	Commercial	50	55
12	Commercial	50	55
13	Commercial	50	55
14	Commercial	49	55
15	Commercial	47	55
16	Commercial	47	55
17	Commercial	45	55
18	Commercial	47	55
19	Commercial	49	55
20	Commercial	49	55
21	Commercial	48	55
22	Commercial	47	55
23	Commercial	46	55
24	Multi-Family	45	50

6.0 Conclusions

6.1 Construction Noise

Construction noise levels would range from 59 to 74 dB(A) L_{eq} at the adjacent property lines. Construction activities would generally occur over the 8-hour period between 7:00 a.m. and 5:00 p.m. on weekdays. Although the existing adjacent residences would be exposed to construction noise levels that may be heard above ambient conditions, the exposure would be temporary and would not exceed the City’s standards. As construction activities would comply with City Municipal Code Sections 17-234 and 117-238, temporary increases in noise levels from construction activities would be less than significant.

6.2 Traffic Noise

The project would contribute traffic to Mission Avenue, Centre City Parkway, Escondido Boulevard, and Washington Avenue. The project would result in a 1 dB or less direct increase in traffic noise over the existing condition along all affected roadway segments. Therefore, the project would result in less than significant direct impact related to traffic

noise. Additionally, the project would result in a 1 dB or less cumulative increase. Therefore, the project's contribution to the cumulative increase is less than cumulatively considerable.

6.3 On-site Generated Noise

The primary noise sources on-site would be the car wash (including vacuums and blowers), HVAC equipment, and the drive-through speakers. Noise levels due to these sources were modeled at a series of 24 receivers located at the adjacent property lines. As calculated in this analysis, at the multi-family residential property lines, daytime on-site generated noise levels would range from 49 to 51 dB(A) L_{eq} and nighttime noise levels would range from 36 to 45 dB(A) L_{eq} . At the commercial property lines, daytime on-site generated noise levels would range from 48 to 57 dB(A) L_{eq} and nighttime noise levels would range from 45 to 50 dB(A) L_{eq} . Noise levels would not exceed the applicable Noise Ordinance limits at the property lines.

7.0 References Cited

California Department of Transportation (Caltrans)
2013 Technical Noise Supplement. November.

Escondido, City of
2012 General Plan.

Federal Highway Administration (FHWA)
2006 FHWA Roadway Construction Noise Model User's Guide, Final Report. January 2006.

Federal Transit Administration (FTA)
2006 Transit Noise and Vibration Impact Assessment. Office of Planning and Environment. FTA-VA-90-1003-06. May 2006.

Kimley-Horn
2017 Trip Generation Rates and Roadway Segment Volumes Tables. April 24 and 27, 2017.

MD Acoustics
2016 SuperStar Express Car Wash Noise Impact Study. City of Surprise, AZ. Prepared for Cawley Architects. July 22, 2016.

Michael Brandman Associates
2013 Final Environmental Impact Report – Foxglove Shopping Center Project. SCH No. 2011051031. City of Madera. February 1, 2013.

Navcon Engineering, Inc.
2015 SoundPLAN Essential version 3.0

ATTACHMENTS

ATTACHMENT 1
Noise Measurement Data

Summary

Filename LxT_Data.163
 Serial Number 3899
 Model SoundTrack LxT®
 Firmware Version 2.206
 User
 Location
 Job Description
 Note
 Measurement Description
 Start 2016/12/06 12:35:17
 Stop 2016/12/06 12:58:07
 Duration 0:15:33.2
 Run Time 0:15:31.1
 Pause 0:00:02.1
 Pre Calibration 2016/12/06 12:30:14
 Post Calibration None
 Calibration Deviation ...

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT1
 Microphone Correction Off
 Integration Method Linear
 Overload 144.6 dB

	A	C	Z
Under Range Peak	100.8	97.8	102.8 dB
Under Range Limit	37.4	35.4	43.4 dB
Noise Floor	24.4	25.0	32.5 dB

Results

LAeq 63.1 dB
 LAE 92.8 dB
 EA 209.296 µPa²h
 EA8 6.474 mPa²h
 EA40 32.369 mPa²h
 LApeak (max) 2016/12/06 12:55:39 87.9 dB
 LASmax 2016/12/06 12:35:46 75.4 dB
 LASmin 2016/12/06 12:55:26 51.9 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedence Counts / Duration) 0 0.0 s
 LAS > 115.0 dB (Exceedence Counts / Duration) 0 0.0 s
 LApeak > 135.0 dB (Exceedence Counts / Duration) 0 0.0 s
 LApeak > 137.0 dB (Exceedence Counts / Duration) 0 0.0 s
 LApeak > 140.0 dB (Exceedence Counts / Duration) 0 0.0 s

LCeq 74.1 dB
 LAeq 63.1 dB
 LCeq - LAeq 11.0 dB
 LAleq 64.1 dB
 LAeq 63.1 dB
 LAleq - LAeq 1.0 dB
 # Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name OSHA-1 OSHA-2
 Exch. Rate 5 5 dB
 Threshold 90 80 dB
 Criterion Level 90 90 dB
 Criterion Duration 8 8 h

Results

Dose -99.9 -99.9 %
 Projected Dose -99.9 -99.9 %
 TWA (Projected) -99.9 -99.9 dB
 TWA (t) -99.9 -99.9 dB
 Lep (t) 48.2 48.2 dB

Statistics

LAS5.00 68.9 dB
 LAS10.00 66.4 dB
 LAS33.30 61.7 dB
 LAS50.00 59.0 dB
 LAS66.60 56.7 dB
 LAS90.00 54.1 dB

Summary

Filename LxT_Data.164
 Serial Number 3899
 Model SoundTrack LxT®
 Firmware Version 2.206
 User
 Location
 Job Description
 Note
 Measurement Description
 Start 2016/12/06 13:59:01
 Stop 2016/12/06 14:14:03
 Duration 0:15:02.2
 Run Time 0:15:02.2
 Pause 0:00:00.0
 Pre Calibration 2016/12/06 13:45:50
 Post Calibration None
 Calibration Deviation ...

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT1
 Microphone Correction Off
 Integration Method Linear
 Overload 144.6 dB

	A	C	Z
Under Range Peak	100.8	97.8	102.8 dB
Under Range Limit	37.4	35.4	43.4 dB
Noise Floor	24.5	25.0	32.5 dB

Results

LAeq 62.5 dB
 LAE 92.1 dB
 EA 180.121 µPa²h
 EA8 5.750 mPa²h
 EA40 28.749 mPa²h
 LApeak (max) 2016/12/06 14:07:01 86.3 dB
 LASmax 2016/12/06 14:07:01 72.7 dB
 LASmin 2016/12/06 14:09:20 53.3 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedence Counts / Duration) 0 0.0 s
 LAS > 115.0 dB (Exceedence Counts / Duration) 0 0.0 s
 LApeak > 135.0 dB (Exceedence Counts / Duration) 0 0.0 s
 LApeak > 137.0 dB (Exceedence Counts / Duration) 0 0.0 s
 LApeak > 140.0 dB (Exceedence Counts / Duration) 0 0.0 s

LCeq 72.3 dB
 LAeq 62.5 dB
 LCeq - LAeq 9.8 dB
 LAleq 63.3 dB
 LAeq 62.5 dB
 LAleq - LAeq 0.7 dB
 # Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name OSHA-1 OSHA-2
 Exch. Rate 5 5 dB
 Threshold 90 80 dB
 Criterion Level 90 90 dB
 Criterion Duration 8 8 h

Results

Dose -99.9 -99.9 %
 Projected Dose -99.9 -99.9 %
 TWA (Projected) -99.9 -99.9 dB
 TWA (t) -99.9 -99.9 dB
 Lep (t) 47.5 47.5 dB

Statistics

LAS5.00 66.9 dB
 LAS10.00 65.9 dB
 LAS33.30 63.1 dB
 LAS50.00 60.9 dB
 LAS66.60 58.9 dB
 LAS90.00 55.5 dB

Summary

Filename LxT_Data.165
 Serial Number 3899
 Model SoundTrack LxT®
 Firmware Version 2.206
 User
 Location
 Job Description
 Note
 Measurement Description
 Start 2016/12/06 14:35:40
 Stop 2016/12/06 14:50:41
 Duration 0:15:00.6
 Run Time 0:15:00.6
 Pause 0:00:00.0
 Pre Calibration 2016/12/06 14:31:17
 Post Calibration None
 Calibration Deviation ...

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT1
 Microphone Correction Off
 Integration Method Linear
 Overload 144.7 dB

	A	C	Z
Under Range Peak	100.9	97.9	102.9 dB
Under Range Limit	37.4	35.4	43.4 dB
Noise Floor	24.5	25.1	32.6 dB

Results

LAeq 67.6 dB
 LAE 97.2 dB
 EA 579.017 µPa²h
 EA8 18.516 mPa²h
 EA40 92.581 mPa²h
 LApeak (max) 2016/12/06 14:40:18 100.5 dB
 LASmax 2016/12/06 14:49:20 83.8 dB
 LASmin 2016/12/06 14:38:22 56.5 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedence Counts / Duration) 0 0.0 s
 LAS > 115.0 dB (Exceedence Counts / Duration) 0 0.0 s
 LApeak > 135.0 dB (Exceedence Counts / Duration) 0 0.0 s
 LApeak > 137.0 dB (Exceedence Counts / Duration) 0 0.0 s
 LApeak > 140.0 dB (Exceedence Counts / Duration) 0 0.0 s

LCeq 77.6 dB
 LAeq 67.6 dB
 LCeq - LAeq 10.0 dB
 LAleq 69.8 dB
 LAeq 67.6 dB
 LAleq - LAeq 2.2 dB
 # Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exch. Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose -99.9 0.00 %
 Projected Dose -99.9 0.15 %
 TWA (Projected) -99.9 43.2 dB
 TWA (t) -99.9 18.2 dB
 Lep (t) 52.6 52.6 dB

Statistics

LAS5.00 72.5 dB
 LAS10.00 69.7 dB
 LAS33.30 66.3 dB
 LAS50.00 65.0 dB
 LAS66.60 63.5 dB
 LAS90.00 60.5 dB

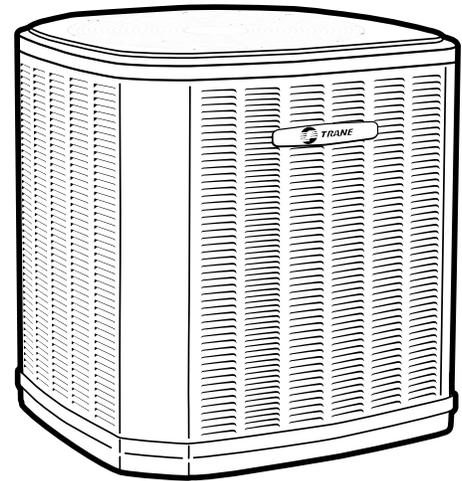
ATTACHMENT 2
HVAC Example Specifications



Product Data

Split System Cooling

- 4TTR3018H1000N
- 4TTR3024H1000N
- 4TTR3030H1000N
- 4TTR3036H1000N
- 4TTR3042E1000N
- 4TTR3048E1000N
- 4TTR3060D1000N





Product Specifications

Model No. ^(a)	4TTR3018H1000N	4TTR3024H1000N	4TTR3030H1000N	4TTR3036H1000N
POWER CONNS. — V/PH/HZ ^(b)	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60
MIN. BRCH. CIR. AMPACITY	12	17	16	18
BR. CIR. PROT. RTG. — MAX. (AMPS)	20	25	25	30
COMPRESSOR	CLIMATUFF®-SCROLL	CLIMATUFF®-SCROLL	CLIMATUFF®-SCROLL	CLIMATAUFF®-SCROLL
RL AMPS — LR AMPS	9 — 48	12.8 — 58.3	12.3 — 63	14.1 — 75
Outdoor Fan FL AMPS	0.64	0.64	0.9	0.7
Fan HP	1/8	1/8	1/8	1/8
Fan Dia (inches)	23.0	23.0	18.9	23.0
Coil	SPINE FIN™	SPINE FIN™	SPINE FIN™	SPINE FIN™
Refrigerant R-410A	5 LBS., 11 OZ	5 LBS., 9 OZ	4 LBS., 10 OZ	4 LBS., 13 OZ
LINE SIZE — IN. O.D. GAS ^(c)	3/4	3/4	3/4	3/4
LINE SIZE — IN. O.D. LIQ. ^(c)	3/8	3/8	3/8	3/8
Charge Spec. Subcooling	10°F	10°F	10°F	10°F
Dimensions H x W X D Crated (IN.)	34 x 30.1 x 33	34 x 30.1 x 33	30 x 27 x 30	34 x 30.1 x 33
Weight — Shipping (lbs.)	167	169	157	175
Weight — Net (lbs.)	140	142	137	147
Optional Accessories:				
Anti-short Cycle Timer	TAYASCT501A	TAYASCT501A	TAYASCT501A	TAYASCT501A
Evaporator Defrost Control	AY28X079	AY28X079	AY28X079	AY28X079
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101	BAYISLT101
Extreme Condition Mount Kit	BAYECMT023	BAYECMT023	BAYECMT023	BAYECMT023
Start Kit	BAYKSKT263	BAYKSKT263	BAYKSKT263	BAYKSKT263
Crankcase Heater Kit	BAYCCHT302	BAYCCHT302	BAYCCHT302	BAYCCHT302
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001	BAYSEAC001
Low Ambient Kit	BAYLOAM103	BAYLOAM103	BAYLOAM103	BAYLOAM103
Refrigerant Lineset ^(d)	TAYREFLN950	TAYREFLN950	TAYREFLN7*	TAYREFLN7*

^(a) Certified in accordance with the Unitary Air-conditioner equipment certification program which is based on AHRI standard 210/240.

^(b) Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.

^(c) Standard line lengths — 60', Standard lift — 60' Suction and Liquid line. For Greater lengths and lifts refer to refrigerant piping software Pub#32-3312-0* (* denotes latest revision)..

^(d) * = 15, 20, 25, 30, 40 and 50 foot lineset available.

Product Specifications

Model No. ^(a)	4TTR3042E1000N	4TTR3048E1000N	4TTR3060D1000N
POWER CONNS. — V/PH/HZ ^(b)	280/230/1/60	280/230/1/60	280/230/1/60
MIN. BRCH. CIR. AMPACITY	22	28	35
BR. CIR. PROT. RTG. — MAX. (AMPS)	35	45	60
COMPRESSOR	CLIMATUFF®- SCROLL	CLIMATUFF®- SCROLL	CLIMATUFF®- SCROLL
RL AMPS — LR AMPS	17.0 — 124	21.8 — 117	26.8 — 134
Outdoor Fan FL AMPS	0.7	0.93	0.93
Fan HP	1/8	1/5	1/5
Fan Dia (inches)	23	23	27.5
Coil	SPINE FIN™	SPINE FIN™	SPINE FIN™
Refrigerant R-410A	5 LBS., 8 OZ	6 LBS., 7 OZ	8 LBS., 0 OZ
LINE SIZE — IN. O.D. GAS ^(c)	7/8	7/8	7/8
LINE SIZE — IN. O.D. LIQ. ^(c)	3/8	3/8	3/8
Charge Spec. Subcooling	10°F	10°F	10°F
Dimensions H x W X D Crated (IN.)	34 x 30.1 x 33	42 x 30.1 x 33	42.4 x 35.1 x 38.7
Weight — Shipping (lbs.)	200	233	261
Weight — Net (lbs.)	172	197	226
Optional Accessories:			
Anti-short Cycle Timer	TAYASCT501A	TAYASCT501A	TAYASCT501A
Evaporator Defrost Control	AY28X079	AY28X079	AY28X079
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101
Extreme Condition Mount Kit	BAYECMT004	BAYECMT004	BAYECMT004
Start Kit	BAYKSKT263	BAYKSKT263	BAYKSKT263
Crankcase Heater Kit	BAYCCHT301	BAYCCHT301	BAYCCHT301
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001
Low Ambient Kit	BAYLOAM103	BAYLOAM103	BAYLOAM103
Refrigerant Lineset ^(d)	TAYREFLN7*	TAYREFLN3*	TAYREFLN3*

(a) Certified in accordance with the Unitary Air-conditioner equipment certification program which is based on AHRI standard 210/240.

(b) Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.

(c) Standard line lengths — 60', Standard lift — 60' Suction and Liquid line. For Greater lengths and lifts refer to refrigerant piping software Pub#32-3312-0* (* denotes latest revision)..

(d) * = 15, 20, 25, 30, 40 and 50 foot lineset available.

Sound Power Level

MODEL	A-Weighted Sound Power Level [dB(A)]	Full Octave Sound Power(dB)							
		63 Hz*	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
4TTR3018H1	72	73.7	71.4	65.4	68	67.3	62.9	56	50.3
4TTR3024H1	74	47.9	60.5	64.1	71.2	71.2	69.0	58.2	51.5
4TTR3030H1	72	69.9	69.6	69.1	68.6	68.7	60.9	56.2	48.9
4TTR3036H1	68	74.7	65.0	65.2	66.4	63.6	58.7	56.3	52.8
4TTR3042E1	72	77.6	68.3	67.4	65.6	67.4	58.2	54.1	47.6
4TTR3048E1	74	72.5	72.3	69.2	67.5	72.3	60.2	55.2	54.2
4TTR3060D1	80	47.3	55.7	69	72.7	75.8	69.4	62.2	53.3

Note: Rated in accordance with AHRI Standard 270-2008

*For Reference Only



Accessory Description and Usage

Anti-Short Cycle Timer — Solid state timing device that prevents compressor recycling until five (5) minutes have elapsed after satisfying call or power interruptions. Use in area with questionable power delivery, commercial applications, long lineset, etc.

Evaporation Defrost Control — SPST Temperature actuated switch that cycles the condenser off as indoor coil reaches freeze-up conditions. Used for low ambient cooling to 30°F with TXV.

Rubber Isolators — Five (5) large rubber donuts to isolate condensing unit from transmitting energy into mounting frame or pad. Use on any application where sound transmission needs to be minimized.

Hard Start Kit — Start capacitor and relay to assist compressor motor startup. Use in areas with marginal power supply, on long linesets, low ambient conditions, etc.

Extreme Condition Mount Kit — Bracket kits to securely mount condensing unit to a frame or pad without removing any panels. Use in areas with high winds, or on commercial roof tops, etc.

AHRI Standard Capacity Rating Conditions

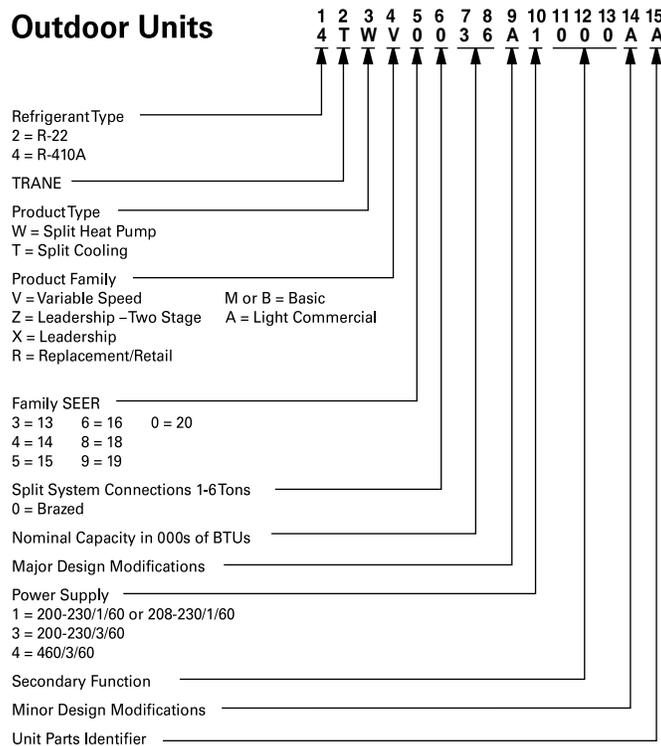
AHRI Standard 210/240 Rating Conditions

1. Cooling 80°F DB, 67°F WB air entering indoor coil, 95°F DB air entering outdoor coil.
2. High Temperature Heating 47°F DB, 43°F WB air entering outdoor coil, 70°F DB air entering indoor coil.
3. Low Temperature Heating 17°F DB air entering indoor coil.
4. Rated indoor airflow for heating is the same as for cooling.

AHRI Standard 270 Rating Conditions — (Noise rating numbers are determined with the unit in cooling operations.) Standard Noise Rating number is at 95°F outdoor air.

Model Nomenclature

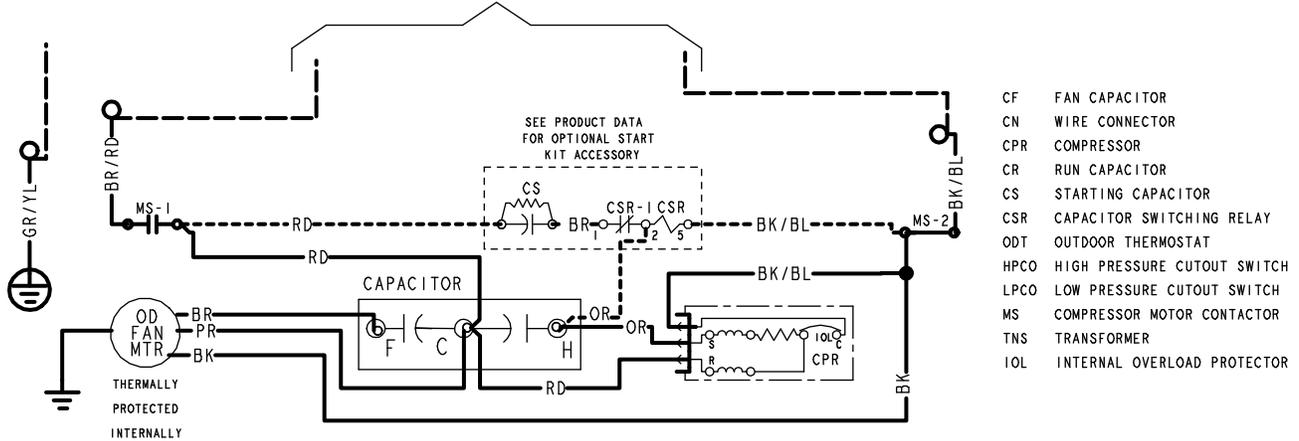
Outdoor Units



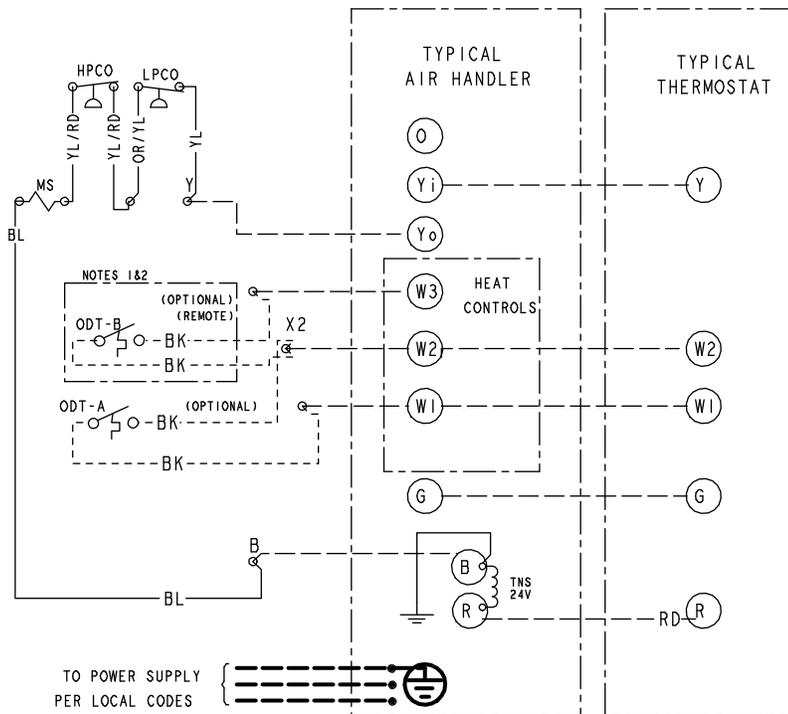
Schematic Diagrams

Figure 1. 1.5 — 4.0 Ton Models

TO POWER SUPPLY PER UNIT NAMEPLATE AND LOCAL CODES



- CF FAN CAPACITOR
- CN WIRE CONNECTOR
- CPR COMPRESSOR
- CR RUN CAPACITOR
- CS STARTING CAPACITOR
- CSR CAPACITOR SWITCHING RELAY
- ODT OUTDOOR THERMOSTAT
- HPCO HIGH PRESSURE CUTOUT SWITCH
- LPCO LOW PRESSURE CUTOUT SWITCH
- MS COMPRESSOR MOTOR CONTACTOR
- TNS TRANSFORMER
- IOL INTERNAL OVERLOAD PROTECTOR



WARNING

HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRICAL POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.
Failure to disconnect power before servicing can cause severe personal injury or death.

CAUTION

USE COPPER CONDUCTORS ONLY! UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS. Failure to do so may cause damage to the equipment.

COLOR OF WIRE

COLOR OF MARKER

BK	BLACK	RD	RED	OR	ORANGE
BL	BLUE	WH	WHITE	GR	GREEN
BR	BROWN	YL	YELLOW	PR	PURPLE
PK	PINK				

- NOTES:
- IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER. IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE.
 - IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2 AT AIR HANDLER.
 - LOW VOLTAGE (24 V) FIELD WIRING MUST BE 18 AWG MINIMUM.
 - USE COPPER CONDUCTORS ONLY!

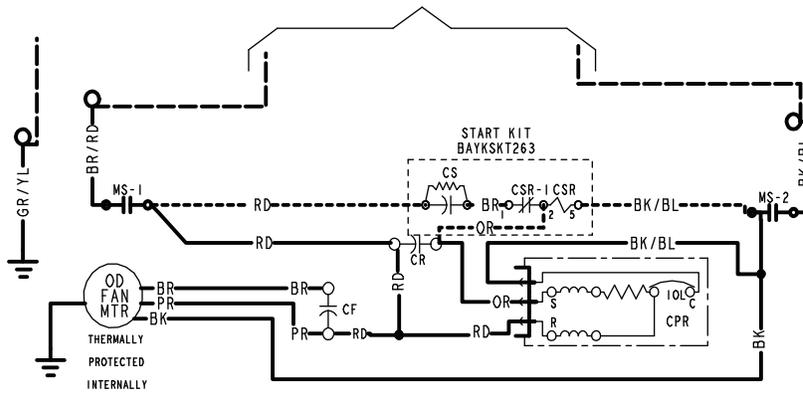
FOR CANADIAN INSTALLATIONS
POUR INSTALLATIONS CANADIENNES

CAUTION: NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V-TO-GROUND
ATTENTION: NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150 V A LA TERRE

PRINTED FROM DI57047P03 REVA

Figure 2. 5.0 Ton Models

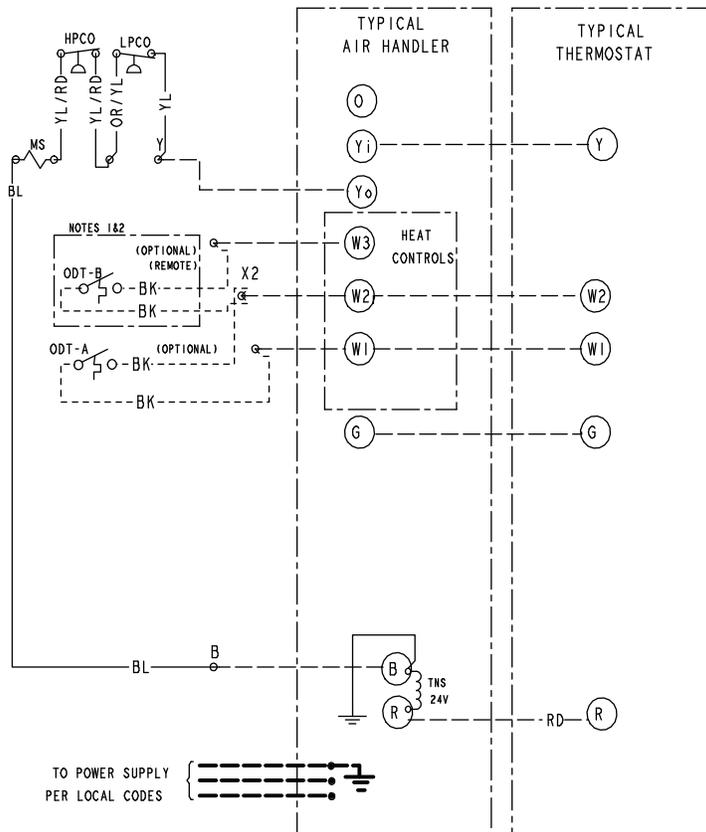
TO POWER SUPPLY PER UNIT NAMEPLATE AND LOCAL CODES



- CF FAN CAPACITOR
- CN WIRECONNECTOR
- CPR COMPRESSOR
- CR RUN CAPACITOR
- CS STARTING CAPACITOR
- CSR CAPACITOR SWITCHING RELAY
- F INDOOR FAN RELAY
- HPCO HIGH PRESSURE CUTOFF SWITCH
- LPCO LOW PRESSURE CUTOFF SWITCH
- IOL INTERNAL OVERLOAD PROTECTOR
- SN SYSTEM ON-OFF SWITCH
- MS COMPRESSOR MOTOR CONTACTOR
- ODA OUTDOOR ANTICIPATOR
- OFT OUTDOOR FAN THERMOSTAT
- ODS OUTDOOR TEMPERATURE SENSOR
- ODT OUTDOOR THERMOSTAT
- SC SWITCH OVER VALVE SOLENOID
- TDL DISCHARGE LINE THERMOSTAT
- TNS TRANSFORMER

← COLOR OF WIRE
 BK/BL ← COLOR OF MARKER

- BK BLACK RD RED OR ORANGE
- BL BLUE WH WHITE GR GREEN
- BR BROWN YL YELLOW PR PURPLE
- PK PINK



⚠ WARNING

HAZARDOUS VOLTAGE!
 DISCONNECT ALL ELECTRICAL POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.
 Failure to disconnect power before servicing can cause severe personal injury or death.

⚠ CAUTION

USE COPPER CONDUCTORS ONLY!
 UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.
 Failure to do so may cause damage to the equipment.

- NOTES:
1. IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER. IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE.
 2. IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2 AT AIR HANDLER.
 3. LOW VOLTAGE (24 V) FIELD WIRING MUST BE 18 AWG MIN.

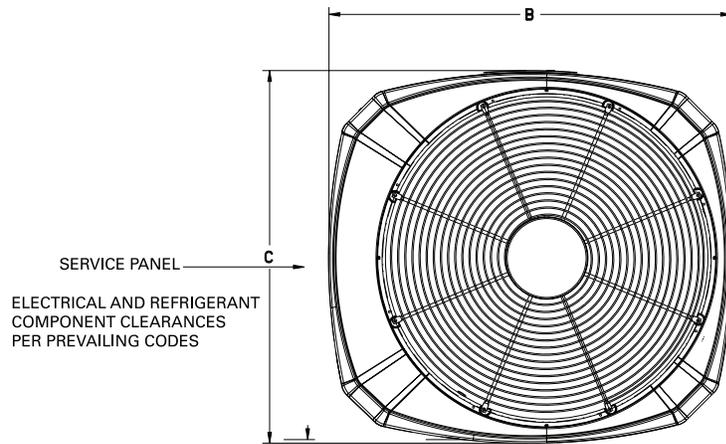
FOR CANADIAN INSTALLATIONS
 POUR INSTALLATIONS CANADIENNES

CAUTION: NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V-TO-GROUND
 ATTENTION: NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150 V A LA TERRE

PRINTED FROM D157048P01



Outline Drawing



TOP DISCHARGE AREA SHOULD BE UNRESTRICTED FOR AT LEAST 1524 (5 FEET) ABOVE UNIT. UNIT SHOULD BE PLACED SO ROOF RUN-OFF WATER DOES NOT POUR DIRECTLY ON UNIT AND SHOULD BE AT LEAST 305 (12") FROM WALL AND ALL SURROUNDING SHRUBBERY ON TWO SIDES. OTHER TWO SIDES UNRESTRICTED

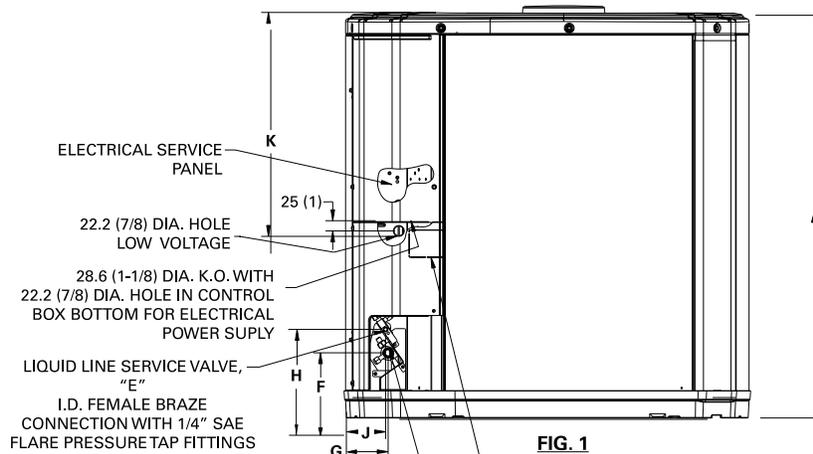


FIG. 1

From Dwg. D152898

K.O. FOR ALTERNATE ELECTRICAL ROUTING
GAS LINE 1/4TURN BALL SERVICE VALVE, "D"
I.D. FEMALE BRAZED CONNECTION WITH 1/4" SAE FLARE PRESSURE TAP FITTING.A

Model	Base	A	B	C	D	E	F	G	H	J	K
4TTR3018H	2	730 (28-3/4)	724 (28-1/2)	651 (25-5/8)	3/4	3/8	127 (5)	57 (2-1/4)	194 (7-5/8)	38 (1-1/2)	457 (18)
4TTR3024H	2	730 (28-3/4)	724 (28-1/2)	651 (25-5/8)	3/4	3/8	137 (5-3/8)	65 (2-5/8)	210 (8-1/4)	57 (2-1/4)	457 (18)
4TTR3030H	2	730 (28-3/4)	724 (28-1/2)	651 (25-5/8)	3/4	3/8	137 (5-3/8)	65 (2-5/8)	210 (8-1/4)	57 (2-1/4)	457 (18)
4TTR3036H	3	730 (28-3/4)	829 (32-5/8)	756 (29-3/4)	3/4	3/8	137 (5-3/8)	79 (3-1/8)	197 (7-3/4)	60 (2-3/8)	508 (20)
4TTR3042E	3	730 (28-3/4)	829 (32-5/8)	756 (29-3/4)	7/8	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	508 (20)
4TTR3048E	3	730 (28-3/4)	933 (36-3/4)	756 (29-3/4)	7/8	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	508 (20)
4TTR3060D	4	943 (37-1/8)	946 (37-1/4)	870 (34-1/4)	7/8	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	508 (20)



Mechanical Specification Options

General

The Outdoor Units are fully charged from the factory for up to 15 feet of piping. This unit is designed to operate at outdoor ambient temperatures as high as 115°F. Cooling capacities are matched with a wide selection of air handlers and furnace coils that are AHRI certified. The unit is certified to UL 1995. Exterior is designed for outdoor application.

Casing

Unit casing is constructed of heavy gauge, galvanized steel and painted with a weather-resistant powder paint finish on all louvered panels and the fan top panel. The corner panels are pre-painted. All panels are subjected to our 1,000 hour salt spray test. The base is made of a CMBP-G30 weatherproof material to resist corrosion.

Refrigerant Controls

Refrigeration system controls include condenser fan, compressor contactor and high pressure switch. High and low pressure controls are inherent to the compressor. A factory supplied liquid line drier is standard. Some models may require field installation.

Compressor

The compressor features internal over temperature, pressure protection and total dipped hermetic motor. Other features include: Centrifugal oil pump and low vibration and noise.

Condenser Coil

The outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by louvered panels.

Low Ambient Cooling

As manufactured, this system has a cooling capacity to 55°F. The addition of an evaporator defrost control permits operation to 40°F. The addition of an evaporator defrost control with TXV permits low ambient cooling to 30°F.

Thermostats—Cooling only and heat/cooling (manual and automatic change over). Sub-base to match thermostat and locking thermostat cover.

Evaporator Defrost Control — See Low Ambient Cooling.



Ingersoll Rand (NYSE:IR) advances the quality of life by creating comfortable, sustainable and efficient environments. Our people and our family of brands—including Club Car®, Ingersoll Rand®, Thermo King® and Trane®—work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; and increase industrial productivity and efficiency. We are a global business committed to a world of sustainable progress and enduring results. For more information, visit www.ingersollrand.com.

Ingersoll Rand has a policy of continuous product and product data improvements and reserves the right to change design and specifications without notice.

©2016 Ingersoll Rand All rights reserved

22-1842-8D-EN 25 Aug 2016

Supersedes 22-1842-8C-EN (February 2015)



ATTACHMENT 3

SoundPLAN Data – Construction Noise

8478 425 W Mission Avenue
SoundPLAN - Construction

Source name	Reference	Level	Corrections		
		Leq1 dB(A)	Kwall dB(A)	CI dB(A)	CT dB(A)
Construction	Unit	114	-	-	-

8478 425 W Mission Avenue
SoundPLAN - Construction

No.	Coordinates		Floor	Height	Level w/o NP
	X in meter	Y			Leq1 dB(A)
1	491557.91	3665348.28	1.Fl	1.5	71.4
1	491557.91	3665348.28	2.Fl	4.3	71.4
1	491557.91	3665348.28	3.Fl	7.1	71.1
2	491567.10	3665351.41	1.Fl	1.5	73.0
2	491567.10	3665351.41	2.Fl	4.3	72.9
2	491567.10	3665351.41	3.Fl	7.1	72.3
3	491574.26	3665353.91	1.Fl	1.5	73.3
3	491574.26	3665353.91	2.Fl	4.3	73.1
3	491574.26	3665353.91	3.Fl	7.1	72.6
4	491582.94	3665356.72	1.Fl	1.5	73.1
4	491582.94	3665356.72	2.Fl	4.3	73.0
4	491582.94	3665356.72	3.Fl	7.1	72.5
5	491591.23	3665359.78	1.Fl	1.5	72.7
5	491591.23	3665359.78	2.Fl	4.3	72.6
5	491591.23	3665359.78	3.Fl	7.1	72.1
6	491599.56	3665376.11	1.Fl	1.5	72.3
6	491599.56	3665376.11	2.Fl	4.3	72.4
6	491599.56	3665376.11	3.Fl	7.1	72.1
7	491591.30	3665397.94	1.Fl	1.5	73.5
7	491591.30	3665397.94	2.Fl	4.3	73.6
7	491591.30	3665397.94	3.Fl	7.1	73.3
8	491600.15	3665362.59	1.Fl	1.5	70.7
8	491600.15	3665362.59	2.Fl	4.3	70.9
8	491600.15	3665362.59	3.Fl	7.1	70.7
9	491581.71	3665423.07	1.Fl	1.5	73.9
9	491581.71	3665423.07	2.Fl	4.3	74.0
9	491581.71	3665423.07	3.Fl	7.1	73.7
10	491573.44	3665448.87	1.Fl	1.5	73.4
10	491573.44	3665448.87	2.Fl	4.3	73.7
10	491573.44	3665448.87	3.Fl	7.1	73.5
11	491561.53	3665477.31	1.Fl	1.5	74.1
11	491561.53	3665477.31	2.Fl	4.3	74.2
11	491561.53	3665477.31	3.Fl	7.1	73.9
12	491553.92	3665500.46	1.Fl	1.5	73.7
12	491553.92	3665500.46	2.Fl	4.3	73.8
12	491553.92	3665500.46	3.Fl	7.1	73.6
13	491545.99	3665521.96	1.Fl	1.5	73.4
13	491545.99	3665521.96	2.Fl	4.3	73.5
13	491545.99	3665521.96	3.Fl	7.1	73.2
14	491538.71	3665542.13	1.Fl	1.5	71.5
14	491538.71	3665542.13	2.Fl	4.3	71.6
14	491538.71	3665542.13	3.Fl	7.1	71.4
15	491519.20	3665563.63	1.Fl	1.5	65.2
15	491519.20	3665563.63	2.Fl	4.3	66.3
15	491519.20	3665563.63	3.Fl	7.1	66.8
16	491496.05	3665557.02	1.Fl	1.5	65.2
16	491496.05	3665557.02	2.Fl	4.3	66.4
16	491496.05	3665557.02	3.Fl	7.1	66.9
17	491420.97	3665536.18	1.Fl	1.5	59.1

8478 425 W Mission Avenue
SoundPLAN - Construction

17	491420.97	3665536.18	2.Fl	4.3	59.6
17	491420.97	3665536.18	3.Fl	7.1	60.1
18	491438.83	3665497.48	1.Fl	1.5	61.6
18	491438.83	3665497.48	2.Fl	4.3	62.2
18	491438.83	3665497.48	3.Fl	7.1	62.9
19	491456.36	3665474.00	1.Fl	1.5	63.5
19	491456.36	3665474.00	2.Fl	4.3	64.3
19	491456.36	3665474.00	3.Fl	7.1	65.1
20	491473.89	3665434.98	1.Fl	1.5	64.2
20	491473.89	3665434.98	2.Fl	4.3	65.0
20	491473.89	3665434.98	3.Fl	7.1	65.9
21	491490.09	3665398.60	1.Fl	1.5	64.2
21	491490.09	3665398.60	2.Fl	4.3	65.1
21	491490.09	3665398.60	3.Fl	7.1	65.9
22	491502.00	3665376.11	1.Fl	1.5	64.2
22	491502.00	3665376.11	2.Fl	4.3	65.1
22	491502.00	3665376.11	3.Fl	7.1	65.9
23	491514.24	3665352.96	1.Fl	1.5	63.7
23	491514.24	3665352.96	2.Fl	4.3	64.6
23	491514.24	3665352.96	3.Fl	7.1	65.5
24	491520.85	3665337.74	1.Fl	1.5	62.8
24	491520.85	3665337.74	2.Fl	4.3	63.7
24	491520.85	3665337.74	3.Fl	7.1	64.5

ATTACHMENT 4

FHWA RD-77-108 – Traffic Noise Calculations

FHWA RD-77-108
Traffic Noise Prediction Model
Data Input Sheet

Project Name : 425 W Mission Avenue
Project Number : 8478
Modeled Condition : Existing, Existing+Project, Cumulative, Cumulative+Project

Surface Refelction: CNEL
Assessment Metric: Hard
Peak ratio to ADT: 10.00
Traffic Desc. (Peak or ADT) : ADT

Segment	Roadway	From	To	Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	K-Factor
EXISTING													
1	Mission Avenue	Rock Springs Road	Quince Street	22,209	35	50	94.90	1.80	3.30	80.00	10.00	10.00	
2	Mission Avenue	Quince Street	Centre City Parkway	25,949	35	50	94.90	1.80	3.30	80.00	10.00	10.00	
3	Mission Avenue	Centre City Parkway	Escondido Boulevard	23,416	35	50	94.90	1.80	3.30	80.00	10.00	10.00	
4	Mission Avenue	Escondido Boulevard	Broadway	18,101	35	50	94.90	1.80	3.30	80.00	10.00	10.00	
5	Centre City Parkway	El Norte Parkway	Decatur Way	22,624	55	50	94.90	1.80	3.30	80.00	10.00	10.00	
6	Centre City Parkway	Decatur Way	SR-78	25,756	55	50	94.90	1.80	3.30	80.00	10.00	10.00	
7	Centre City Parkway	SR-78	Mission Avenue	32,113	55	50	94.90	1.80	3.30	80.00	10.00	10.00	
8	Centre City Parkway	Mission Avenue	Washington Avenue	22,266	45	50	94.90	1.80	3.30	80.00	10.00	10.00	
9	Centre City Parkway	Washington Avenue	Valley Parkway	22,985	45	50	94.90	1.80	3.30	80.00	10.00	10.00	
10	Escondido Boulevard	Mission Avenue	Washington Avenue	14,812	35	50	94.90	1.80	3.30	80.00	10.00	10.00	
11	Escondido Boulevard	Washington Avenue	Valley Parkway	14,278	35	50	94.90	1.80	3.30	80.00	10.00	10.00	
12	Washington Avenue	Quince Street	Centre City Parkway	18,166	40	50	94.90	1.80	3.30	80.00	10.00	10.00	
13	Washington Avenue	Centre City Parkway	Escondido Boulevard	18,471	35	50	94.90	1.80	3.30	80.00	10.00	10.00	
14	Washington Avenue	Escondido Boulevard	Broadway	18,795	35	50	94.90	1.80	3.30	80.00	10.00	10.00	
15	Washington Avenue	East of Broadway		19,400	35	50	94.90	1.80	3.30	80.00	10.00	10.00	
EXISTING + PROJECT													
1	Mission Avenue	Rock Springs Road	Quince Street	22,959	35	50	94.90	1.80	3.30	80.00	10.00	10.00	
2	Mission Avenue	Quince Street	Centre City Parkway	26,819	35	50	94.90	1.80	3.30	80.00	10.00	10.00	
3	Mission Avenue	Centre City Parkway	Escondido Boulevard	25,186	35	50	94.90	1.80	3.30	80.00	10.00	10.00	
4	Mission Avenue	Escondido Boulevard	Broadway	18,911	35	50	94.90	1.80	3.30	80.00	10.00	10.00	
5	Centre City Parkway	El Norte Parkway	Decatur Way	23,204	55	50	94.90	1.80	3.30	80.00	10.00	10.00	
6	Centre City Parkway	Decatur Way	SR-78	26,396	55	50	94.90	1.80	3.30	80.00	10.00	10.00	
7	Centre City Parkway	SR-78	Mission Avenue	33,333	55	50	94.90	1.80	3.30	80.00	10.00	10.00	
8	Centre City Parkway	Mission Avenue	Washington Avenue	24,206	45	50	94.90	1.80	3.30	80.00	10.00	10.00	
9	Centre City Parkway	Washington Avenue	Valley Parkway	23,445	45	50	94.90	1.80	3.30	80.00	10.00	10.00	
10	Escondido Boulevard	Mission Avenue	Washington Avenue	16,582	35	50	94.90	1.80	3.30	80.00	10.00	10.00	
11	Escondido Boulevard	Washington Avenue	Valley Parkway	14,978	35	50	94.90	1.80	3.30	80.00	10.00	10.00	
12	Washington Avenue	Quince Street	Centre City Parkway	18,916	40	50	94.90	1.80	3.30	80.00	10.00	10.00	
13	Washington Avenue	Centre City Parkway	Escondido Boulevard	19,191	35	50	94.90	1.80	3.30	80.00	10.00	10.00	
14	Washington Avenue	Escondido Boulevard	Broadway	19,545	35	50	94.90	1.80	3.30	80.00	10.00	10.00	
15	Washington Avenue	East of Broadway		19,750	35	50	94.90	1.80	3.30	80.00	10.00	10.00	

EXISTING + CUMULATIVE

1	Mission Avenue	Rock Springs Road	Quince Street	22,915	35	50	94.90	1.80	3.30	80.00	10.00	10.00
2	Mission Avenue	Quince Street	Centre City Parkway	26,891	35	50	94.90	1.80	3.30	80.00	10.00	10.00
3	Mission Avenue	Centre City Parkway	Escondido Boulevard	24,637	35	50	94.90	1.80	3.30	80.00	10.00	10.00
4	Mission Avenue	Escondido Boulevard	Broadway	18,675	35	50	94.90	1.80	3.30	80.00	10.00	10.00
5	Centre City Parkway	El Norte Parkway	Decatur Way	23,179	55	50	94.90	1.80	3.30	80.00	10.00	10.00
6	Centre City Parkway	Decatur Way	SR-78	26,374	55	50	94.90	1.80	3.30	80.00	10.00	10.00
7	Centre City Parkway	SR-78	Mission Avenue	33,018	55	50	94.90	1.80	3.30	80.00	10.00	10.00
8	Centre City Parkway	Mission Avenue	Washington Avenue	23,654	45	50	94.90	1.80	3.30	80.00	10.00	10.00
9	Centre City Parkway	Washington Avenue	Valley Parkway	23,697	45	50	94.90	1.80	3.30	80.00	10.00	10.00
10	Escondido Boulevard	Mission Avenue	Washington Avenue	15,640	35	50	94.90	1.80	3.30	80.00	10.00	10.00
11	Escondido Boulevard	Washington Avenue	Valley Parkway	15,095	35	50	94.90	1.80	3.30	80.00	10.00	10.00
12	Washington Avenue	Quince Street	Centre City Parkway	18,661	40	50	94.90	1.80	3.30	80.00	10.00	10.00
13	Washington Avenue	Centre City Parkway	Escondido Boulevard	19,152	35	50	94.90	1.80	3.30	80.00	10.00	10.00
14	Washington Avenue	Escondido Boulevard	Broadway	19,323	35	50	94.90	1.80	3.30	80.00	10.00	10.00
15	Washington Avenue	East of Broadway		19,890	35	50	94.90	1.80	3.30	80.00	10.00	10.00

EXISTING + CUMULATIVE + PROJECT

1	Mission Avenue	Rock Springs Road	Quince Street	23,665	35	50	94.90	1.80	3.30	80.00	10.00	10.00
2	Mission Avenue	Quince Street	Centre City Parkway	27,761	35	50	94.90	1.80	3.30	80.00	10.00	10.00
3	Mission Avenue	Centre City Parkway	Escondido Boulevard	26,407	35	50	94.90	1.80	3.30	80.00	10.00	10.00
4	Mission Avenue	Escondido Boulevard	Broadway	19,485	35	50	94.90	1.80	3.30	80.00	10.00	10.00
5	Centre City Parkway	El Norte Parkway	Decatur Way	23,759	55	50	94.90	1.80	3.30	80.00	10.00	10.00
6	Centre City Parkway	Decatur Way	SR-78	27,014	55	50	94.90	1.80	3.30	80.00	10.00	10.00
7	Centre City Parkway	SR-78	Mission Avenue	34,238	55	50	94.90	1.80	3.30	80.00	10.00	10.00
8	Centre City Parkway	Mission Avenue	Washington Avenue	25,594	45	50	94.90	1.80	3.30	80.00	10.00	10.00
9	Centre City Parkway	Washington Avenue	Valley Parkway	24,157	45	50	94.90	1.80	3.30	80.00	10.00	10.00
10	Escondido Boulevard	Mission Avenue	Washington Avenue	17,410	35	50	94.90	1.80	3.30	80.00	10.00	10.00
11	Escondido Boulevard	Washington Avenue	Valley Parkway	15,795	35	50	94.90	1.80	3.30	80.00	10.00	10.00
12	Washington Avenue	Quince Street	Centre City Parkway	19,411	40	50	94.90	1.80	3.30	80.00	10.00	10.00
13	Washington Avenue	Centre City Parkway	Escondido Boulevard	19,872	35	50	94.90	1.80	3.30	80.00	10.00	10.00
14	Washington Avenue	Escondido Boulevard	Broadway	20,073	35	50	94.90	1.80	3.30	80.00	10.00	10.00
15	Washington Avenue	East of Broadway		20,240	35	50	94.90	1.80	3.30	80.00	10.00	10.00

Traffic Noise Prediction Model

Predicted Noise Levels

Project Name : 425 W Mission Avenue
Project Number : 8478
Modeled Condition : Existing, Existing+Project, Cumulative, Cumulative+Project
Assessment Metric: Hard

Segment	Roadway	From	To	Noise Levels, dBA Hard				Distance to Traffic Noise Level Contours, Feet					
				Auto	MT	HT	Total	75 dB	70 dB	65 dB	60 dB	55 dB	50 dB
EXISTING													
1	Mission Avenue	Rock Springs Road	Quince Street	67.3	59.8	67.6	71	19	62	195	615	1,945	6,151
2	Mission Avenue	Quince Street	Centre City Parkway	68.0	60.5	68.3	72	22	71	223	706	2,233	7,063
3	Mission Avenue	Centre City Parkway	Escondido Boulevard	67.6	60.0	67.9	71	20	64	204	644	2,037	6,441
4	Mission Avenue	Escondido Boulevard	Broadway	66.5	58.9	66.8	70	16	50	158	500	1,581	5,000
5	Centre City Parkway	El Norte Parkway	Decatur Way	73.1	63.0	69.5	75	49	155	489	1,545	4,886	15,451
6	Centre City Parkway	Decatur Way	SR-78	73.6	63.5	70.1	76	56	177	561	1,774	5,610	17,741
7	Centre City Parkway	SR-78	Mission Avenue	74.6	64.5	71.0	77	71	223	706	2,233	7,063	22,334
8	Centre City Parkway	Mission Avenue	Washington Avenue	70.5	61.5	68.7	73	32	100	315	998	3,155	9,976
9	Centre City Parkway	Washington Avenue	Valley Parkway	70.6	61.7	68.8	73	32	102	323	1,021	3,228	10,209
10	Escondido Boulevard	Mission Avenue	Washington Avenue	65.6	58.1	65.9	69	13	41	129	406	1,285	4,064
11	Escondido Boulevard	Washington Avenue	Valley Parkway	65.4	57.9	65.7	69	12	39	123	388	1,227	3,881
12	Washington Avenue	Quince Street	Centre City Parkway	68.1	59.8	67.3	71	20	64	204	644	2,037	6,441
13	Washington Avenue	Centre City Parkway	Escondido Boulevard	66.5	59.0	66.8	70	16	51	162	512	1,618	5,116
14	Washington Avenue	Escondido Boulevard	Broadway	66.6	59.1	66.9	70	16	51	162	512	1,618	5,116
15	Washington Avenue	East of Broadway		66.8	59.2	67.1	70	17	54	169	536	1,694	5,358
EXISTING + PROJECT													
1	Mission Avenue	Rock Springs Road	Quince Street	67.5	60.0	67.8	71	20	63	199	629	1,991	6,295
2	Mission Avenue	Quince Street	Centre City Parkway	68.2	60.6	68.5	72	23	74	234	740	2,339	7,396
3	Mission Avenue	Centre City Parkway	Escondido Boulevard	67.9	60.4	68.2	71	22	69	218	690	2,183	6,902
4	Mission Avenue	Escondido Boulevard	Broadway	66.6	59.1	66.9	70	17	52	166	524	1,656	5,236
5	Centre City Parkway	El Norte Parkway	Decatur Way	73.2	63.1	69.6	75	51	162	512	1,618	5,116	16,180
6	Centre City Parkway	Decatur Way	SR-78	73.7	63.6	70.2	76	57	182	574	1,815	5,741	18,154
7	Centre City Parkway	SR-78	Mission Avenue	74.8	64.6	71.2	77	72	229	723	2,285	7,227	22,854
8	Centre City Parkway	Mission Avenue	Washington Avenue	70.9	61.9	69.0	73	35	109	346	1,094	3,459	10,939
9	Centre City Parkway	Washington Avenue	Valley Parkway	70.7	61.8	68.9	73	33	104	330	1,045	3,303	10,446
10	Escondido Boulevard	Mission Avenue	Washington Avenue	66.1	58.5	66.4	70	14	46	144	456	1,442	4,560
11	Escondido Boulevard	Washington Avenue	Valley Parkway	65.6	58.1	65.9	69	13	42	132	416	1,315	4,159
12	Washington Avenue	Quince Street	Centre City Parkway	68.3	60.0	67.5	71	21	67	213	674	2,133	6,745
13	Washington Avenue	Centre City Parkway	Escondido Boulevard	66.7	59.2	67.0	70	17	52	166	524	1,656	5,236
14	Washington Avenue	Escondido Boulevard	Broadway	66.8	59.3	67.1	70	17	54	169	536	1,694	5,358
15	Washington Avenue	East of Broadway		66.8	59.3	67.1	70	17	55	173	548	1,734	5,482

EXISTING + CUMULATIVE

1	Mission Avenue	Rock Springs Road	Quince Street	67.5	60.0	67.8	71	20	63	199	629	1,991	6,295
2	Mission Avenue	Quince Street	Centre City Parkway	68.2	60.6	68.5	72	23	74	234	740	2,339	7,396
3	Mission Avenue	Centre City Parkway	Escondido Boulevard	67.8	60.3	68.1	71	21	67	213	674	2,133	6,745
4	Mission Avenue	Escondido Boulevard	Broadway	66.6	59.1	66.9	70	16	51	162	512	1,618	5,116
5	Centre City Parkway	El Norte Parkway	Decatur Way	73.2	63.1	69.6	75	51	162	512	1,618	5,116	16,180
6	Centre City Parkway	Decatur Way	SR-78	73.7	63.6	70.2	76	57	182	574	1,815	5,741	18,154
7	Centre City Parkway	SR-78	Mission Avenue	74.7	64.6	71.2	77	72	229	723	2,285	7,227	22,854
8	Centre City Parkway	Mission Avenue	Washington Avenue	70.8	61.8	68.9	73	34	107	338	1,069	3,380	10,690
9	Centre City Parkway	Washington Avenue	Valley Parkway	70.8	61.8	68.9	73	34	107	338	1,069	3,380	10,690
10	Escondido Boulevard	Mission Avenue	Washington Avenue	65.8	58.3	66.1	69	13	43	135	426	1,346	4,256
11	Escondido Boulevard	Washington Avenue	Valley Parkway	65.7	58.1	66.0	69	13	42	132	416	1,315	4,159
12	Washington Avenue	Quince Street	Centre City Parkway	68.3	60.0	67.4	71	21	66	208	659	2,084	6,591
13	Washington Avenue	Centre City Parkway	Escondido Boulevard	66.7	59.2	67.0	70	17	52	166	524	1,656	5,236
14	Washington Avenue	Escondido Boulevard	Broadway	66.7	59.2	67.0	70	17	54	169	536	1,694	5,358
15	Washington Avenue	East of Broadway		66.9	59.3	67.2	70	17	55	173	548	1,734	5,482

EXISTING + CUMULATIVE + PROJECT

1	Mission Avenue	Rock Springs Road	Quince Street	67.6	60.1	67.9	71	20	64	204	644	2,037	6,441
2	Mission Avenue	Quince Street	Centre City Parkway	68.3	60.8	68.6	72	24	76	239	757	2,393	7,568
3	Mission Avenue	Centre City Parkway	Escondido Boulevard	68.1	60.6	68.4	72	23	72	229	723	2,285	7,227
4	Mission Avenue	Escondido Boulevard	Broadway	66.8	59.2	67.1	70	17	54	169	536	1,694	5,358
5	Centre City Parkway	El Norte Parkway	Decatur Way	73.3	63.2	69.7	75	52	166	524	1,656	5,236	16,557
6	Centre City Parkway	Decatur Way	SR-78	73.8	63.7	70.3	76	59	186	587	1,858	5,874	18,577
7	Centre City Parkway	SR-78	Mission Avenue	74.9	64.8	71.3	77	74	234	740	2,339	7,396	23,387
8	Centre City Parkway	Mission Avenue	Washington Avenue	71.1	62.1	69.3	74	36	115	362	1,145	3,622	11,454
9	Centre City Parkway	Washington Avenue	Valley Parkway	70.9	61.9	69.0	73	35	109	346	1,094	3,459	10,939
10	Escondido Boulevard	Mission Avenue	Washington Avenue	66.3	58.8	66.6	70	15	48	151	477	1,510	4,775
11	Escondido Boulevard	Washington Avenue	Valley Parkway	65.9	58.3	66.2	69	14	44	138	435	1,377	4,355
12	Washington Avenue	Quince Street	Centre City Parkway	68.4	60.1	67.6	71	22	69	218	690	2,183	6,902
13	Washington Avenue	Centre City Parkway	Escondido Boulevard	66.9	59.3	67.2	70	17	55	173	548	1,734	5,482
14	Washington Avenue	Escondido Boulevard	Broadway	66.9	59.4	67.2	70	17	55	173	548	1,734	5,482
15	Washington Avenue	East of Broadway		66.9	59.4	67.2	71	18	56	177	561	1,774	5,610

ATTACHMENT 5

SoundPLAN Data – On-Site Generated Noise

8478 425 W Mission Avenue
SoundPLAN - Operation

Source name	Reference Level		dB(A)	Frequency spectrum [dB(A)]										Corrections		
				31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz	Kwall dB(A)	CI dB(A)	CT dB(A)
Vacuum1	Unit	Daytime	74.1	30.7	50.7	49.1	52	52.3	58.2	64.2	67.5	69.2	69	-	-	-
Vacuum1	Unit	Nighttime	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vacuum2	Unit	Daytime	74.1	30.7	50.7	49.1	52	52.3	58.2	64.2	67.5	69.2	69	-	-	-
Vacuum2	Unit	Nighttime	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vacuum3	Unit	Daytime	74.1	30.7	50.7	49.1	52	52.3	58.2	64.2	67.5	69.2	69	-	-	-
Vacuum3	Unit	Nighttime	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vacuum4	Unit	Daytime	74.1	30.7	50.7	49.1	52	52.3	58.2	64.2	67.5	69.2	69	-	-	-
Vacuum4	Unit	Nighttime	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vacuum5	Unit	Daytime	74.1	30.7	50.7	49.1	52	52.3	58.2	64.2	67.5	69.2	69	-	-	-
Vacuum5	Unit	Nighttime	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vacuum6	Unit	Daytime	74.1	30.7	50.7	49.1	52	52.3	58.2	64.2	67.5	69.2	69	-	-	-
Vacuum6	Unit	Nighttime	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vacuum7	Unit	Daytime	74.1	30.7	50.7	49.1	52	52.3	58.2	64.2	67.5	69.2	69	-	-	-
Vacuum7	Unit	Nighttime	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vacuum8	Unit	Daytime	74.1	30.7	50.7	49.1	52	52.3	58.2	64.2	67.5	69.2	69	-	-	-
Vacuum8	Unit	Nighttime	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vacuum9	Unit	Daytime	74.1	30.7	50.7	49.1	52	52.3	58.2	64.2	67.5	69.2	69	-	-	-
Vacuum9	Unit	Nighttime	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vacuum10	Unit	Daytime	74.1	30.7	50.7	49.1	52	52.3	58.2	64.2	67.5	69.2	69	-	-	-
Vacuum10	Unit	Nighttime	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vacuum11	Unit	Daytime	74.1	30.7	50.7	49.1	52	52.3	58.2	64.2	67.5	69.2	69	-	-	-
Vacuum11	Unit	Nighttime	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vacuum12	Unit	Daytime	74.1	30.7	50.7	49.1	52	52.3	58.2	64.2	67.5	69.2	69	-	-	-
Vacuum12	Unit	Nighttime	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vacuum13	Unit	Daytime	74.1	30.7	50.7	49.1	52	52.3	58.2	64.2	67.5	69.2	69	-	-	-
Vacuum13	Unit	Nighttime	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vacuum14	Unit	Daytime	74.1	30.7	50.7	49.1	52	52.3	58.2	64.2	67.5	69.2	69	-	-	-
Vacuum14	Unit	Nighttime	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vacuum15	Unit	Daytime	74.1	30.7	50.7	49.1	52	52.3	58.2	64.2	67.5	69.2	69	-	-	-
Vacuum15	Unit	Nighttime	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vacuum16	Unit	Daytime	74.1	30.7	50.7	49.1	52	52.3	58.2	64.2	67.5	69.2	69	-	-	-
Vacuum16	Unit	Nighttime	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vacuum17	Unit	Daytime	74.1	30.7	50.7	49.1	52	52.3	58.2	64.2	67.5	69.2	69	-	-	-
Vacuum17	Unit	Nighttime	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vacuum18	Unit	Daytime	74.1	30.7	50.7	49.1	52	52.3	58.2	64.2	67.5	69.2	69	-	-	-
Vacuum18	Unit	Nighttime	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vacuum19	Unit	Daytime	74.1	30.7	50.7	49.1	52	52.3	58.2	64.2	67.5	69.2	69	-	-	-
Vacuum19	Unit	Nighttime	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vacuum20	Unit	Daytime	74.1	30.7	50.7	49.1	52	52.3	58.2	64.2	67.5	69.2	69	-	-	-
Vacuum20	Unit	Nighttime	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vacuum21	Unit	Daytime	74.1	30.7	50.7	49.1	52	52.3	58.2	64.2	67.5	69.2	69	-	-	-
Vacuum21	Unit	Nighttime	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vacuum22	Unit	Daytime	74.1	30.7	50.7	49.1	52	52.3	58.2	64.2	67.5	69.2	69	-	-	-
Vacuum22	Unit	Nighttime	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Car Wash Entrance	Unit	Daytime	88.2	-	51.5	63.3	72.9	83.1	82.8	81.3	79.2	74.5	-	-	-	-
Car Wash Entrance	Unit	Nighttime	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Car Wash Exit	Unit	Daytime	96.9	-	61.5	73.3	82.9	93.1	82.8	91.3	89.2	84.5	-	-	-	-
Car Wash Exit	Unit	Nighttime	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HVAC1	Unit	Daytime	96	-	-	-	-	-	-	-	-	-	-	-	-	-
HVAC1	Unit	Nighttime	93	-	-	-	-	-	-	-	-	-	-	-	-	-
HVAC2	Unit	Daytime	96	-	-	-	-	-	-	-	-	-	-	-	-	-
HVAC2	Unit	Nighttime	93	-	-	-	-	-	-	-	-	-	-	-	-	-
HVAC3	Unit	Daytime	96	-	-	-	-	-	-	-	-	-	-	-	-	-
HVAC3	Unit	Nighttime	93	-	-	-	-	-	-	-	-	-	-	-	-	-
Drive Through Speaker1	Unit	Daytime	76.7	-	-	-	-	-	-	-	-	-	-	-	-	-
Drive Through Speaker1	Unit	Nighttime	72.7	-	-	-	-	-	-	-	-	-	-	-	-	-
Drive Through Speaker2	Unit	Daytime	76.7	-	-	-	-	-	-	-	-	-	-	-	-	-
Drive Through Speaker2	Unit	Nighttime	72.7	-	-	-	-	-	-	-	-	-	-	-	-	-

8478 425 W Mission Avenue
SoundPLAN - Operation

No.	Coordinates		Floor	Height m	Limit		Level w/o NP	
	X in meter	Y			Daytime dB(A)	Nighttime	Daytime dB(A)	Nighttime
1	491557.91	3665348.28	1.Fl	1.5	55	50	50.4	44.7
1	491557.91	3665348.28	2.Fl	4.3	55	50	53.2	45.1
1	491557.91	3665348.28	3.Fl	7.1	55	50	53.3	45.5
2	491567.10	3665351.41	1.Fl	1.5	55	50	51.1	44.6
2	491567.10	3665351.41	2.Fl	4.3	55	50	54.4	45.1
2	491567.10	3665351.41	3.Fl	7.1	55	50	54.3	45.4
3	491574.26	3665353.91	1.Fl	1.5	55	50	49.3	35.7
3	491574.26	3665353.91	2.Fl	4.3	55	50	54.1	40.5
3	491574.26	3665353.91	3.Fl	7.1	55	50	54.5	45.0
4	491582.94	3665356.72	1.Fl	1.5	55	50	48.6	36.9
4	491582.94	3665356.72	2.Fl	4.3	55	50	53.4	41.1
4	491582.94	3665356.72	3.Fl	7.1	55	50	54.0	45.0
5	491591.23	3665359.78	1.Fl	1.5	55	50	49.1	41.8
5	491591.23	3665359.78	2.Fl	4.3	55	50	53.4	44.3
5	491591.23	3665359.78	3.Fl	7.1	55	50	53.7	46.0
6	491600.15	3665362.59	1.Fl	1.5	55	50	49.3	43.8
6	491600.15	3665362.59	2.Fl	4.3	55	50	52.7	45.6
6	491600.15	3665362.59	3.Fl	7.1	55	50	52.8	45.9
7	491599.56	3665376.11	1.Fl	1.5	60	55	53.8	45.3
7	491599.56	3665376.11	2.Fl	4.3	60	55	53.7	45.5
7	491599.56	3665376.11	3.Fl	7.1	60	55	53.4	45.7
8	491591.30	3665397.94	1.Fl	1.5	60	55	54.2	47.0
8	491591.30	3665397.94	2.Fl	4.3	60	55	54.2	47.7
8	491591.30	3665397.94	3.Fl	7.1	60	55	53.9	47.8
9	491581.71	3665423.07	1.Fl	1.5	60	55	56.7	48.2
9	491581.71	3665423.07	2.Fl	4.3	60	55	57.6	49.9
9	491581.71	3665423.07	3.Fl	7.1	60	55	57.7	50.5
10	491573.44	3665448.87	1.Fl	1.5	60	55	55.8	49.6
10	491573.44	3665448.87	2.Fl	4.3	60	55	57.2	51.5
10	491573.44	3665448.87	3.Fl	7.1	60	55	57.6	52.2
11	491561.53	3665477.31	1.Fl	1.5	60	55	54.0	49.5
11	491561.53	3665477.31	2.Fl	4.3	60	55	55.8	51.5
11	491561.53	3665477.31	3.Fl	7.1	60	55	56.3	52.2
12	491553.92	3665500.46	1.Fl	1.5	60	55	53.9	50.1
12	491553.92	3665500.46	2.Fl	4.3	60	55	55.4	51.7
12	491553.92	3665500.46	3.Fl	7.1	60	55	55.7	52.1
13	491545.99	3665521.96	1.Fl	1.5	60	55	53.2	49.9
13	491545.99	3665521.96	2.Fl	4.3	60	55	54.7	51.4
13	491545.99	3665521.96	3.Fl	7.1	60	55	55.0	51.7
14	491538.71	3665542.13	1.Fl	1.5	60	55	51.6	48.5
14	491538.71	3665542.13	2.Fl	4.3	60	55	52.9	49.8
14	491538.71	3665542.13	3.Fl	7.1	60	55	53.1	50.0
15	491519.20	3665563.63	1.Fl	1.5	60	55	50.3	47.3
15	491519.20	3665563.63	2.Fl	4.3	60	55	51.2	48.2
15	491519.20	3665563.63	3.Fl	7.1	60	55	51.6	48.5
16	491496.05	3665557.02	1.Fl	1.5	60	55	49.6	46.6
16	491496.05	3665557.02	2.Fl	4.3	60	55	51.1	48.1
16	491496.05	3665557.02	3.Fl	7.1	60	55	51.6	48.6
17	491420.97	3665536.18	1.Fl	1.5	60	55	47.7	44.7
17	491420.97	3665536.18	2.Fl	4.3	60	55	47.8	44.8
17	491420.97	3665536.18	3.Fl	7.1	60	55	47.9	44.9
18	491438.83	3665497.48	1.Fl	1.5	60	55	50.6	47.1
18	491438.83	3665497.48	2.Fl	4.3	60	55	51.0	47.3
18	491438.83	3665497.48	3.Fl	7.1	60	55	51.0	47.4
19	491456.36	3665474.00	1.Fl	1.5	60	55	52.1	48.6
19	491456.36	3665474.00	2.Fl	4.3	60	55	52.8	49.0
19	491456.36	3665474.00	3.Fl	7.1	60	55	52.8	49.1
20	491473.89	3665434.98	1.Fl	1.5	60	55	53.0	48.9
20	491473.89	3665434.98	2.Fl	4.3	60	55	53.8	49.4
20	491473.89	3665434.98	3.Fl	7.1	60	55	53.8	49.5
21	491490.09	3665398.60	1.Fl	1.5	60	55	53.2	48.1
21	491490.09	3665398.60	2.Fl	4.3	60	55	53.8	48.7
21	491490.09	3665398.60	3.Fl	7.1	60	55	53.8	48.7
22	491502.00	3665376.11	1.Fl	1.5	60	55	50.6	47.0
22	491502.00	3665376.11	2.Fl	4.3	60	55	51.1	47.4
22	491502.00	3665376.11	3.Fl	7.1	60	55	51.1	47.4
23	491514.24	3665352.96	1.Fl	1.5	60	55	49.2	45.5
23	491514.24	3665352.96	2.Fl	4.3	60	55	49.5	45.6
23	491514.24	3665352.96	3.Fl	7.1	60	55	49.6	45.8
24	491520.85	3665337.74	1.Fl	1.5	55	50	48.8	44.5
24	491520.85	3665337.74	2.Fl	4.3	55	50	49.0	44.5
24	491520.85	3665337.74	3.Fl	7.1	55	50	49.1	44.7

Source name	Level w/o NP		Daytime dB(A)	Nighttime
1 1.Fl 50.4	44.7	0.0	0.0	
Car Wash Entrance		46.7		0
Car Wash Exit		35.8		0
Drive-Through Speaker1		19.4		15.4
Drive-Through Speaker2		25.6		21.6
HVAC1		36.8		33.8
HVAC2		38		35
HVAC3		42.5		39.5
HVAC4		44.7		41.7
Vacuum1		0.1		0
Vacuum2		0.6		0
Vacuum3		1.1		0
Vacuum4		1.7		0
Vacuum5		2.4		0
Vacuum6		18.4		0
Vacuum7		18.9		0
Vacuum8		19.3		0
Vacuum9		19.8		0
Vacuum10		20.2		0
Vacuum11		20.6		0
Vacuum12		20.9		0
Vacuum13		21.1		0
Vacuum14		23.9		0
Vacuum15		25.2		0
Vacuum16		22.9		0
Vacuum17		22.3		0
Vacuum18		4.9		0
Vacuum19		4		0
Vacuum20		3.2		0
Vacuum21		2.6		0
Vacuum22		2		0
Vacuum23		1.4		0
Vacuum24		1		0
Vacuum25		0.6		0
Vacuum26		0.4		0
1 2.Fl 53.2	45.1	0.0	0.0	
Car Wash Entrance		51		0
Car Wash Exit		40.8		0
Drive-Through Speaker1		19.7		15.7
Drive-Through Speaker2		26.2		22.2
HVAC1		38.3		35.3
HVAC2		39.8		36.8
HVAC3		43.1		40.1
HVAC4		44.5		41.5
Vacuum1		4.1		0
Vacuum2		5.2		0
Vacuum3		6.6		0
Vacuum4		8.7		0
Vacuum5		12.7		0
Vacuum6		23.8		0
Vacuum7		24.4		0
Vacuum8		24.8		0
Vacuum9		25.3		0
Vacuum10		25.7		0
Vacuum11		26.1		0
Vacuum12		26.4		0
Vacuum13		26.7		0
Vacuum14		30.3		0
Vacuum15		31.5		0
Vacuum16		29.1		0
Vacuum17		28.4		0
Vacuum18		5.1		0
Vacuum19		9.2		0
Vacuum20		7.1		0
Vacuum21		5.6		0
Vacuum22		4.6		0
Vacuum23		3.7		0
Vacuum24		3.1		0
Vacuum25		2.6		0
Vacuum26		2.2		0
1 3.Fl 53.3	45.5	0.0	0.0	
Car Wash Entrance		50.9		0
Car Wash Exit		40.8		0
Drive-Through Speaker1		20		16
Drive-Through Speaker2		26.8		22.8
HVAC1		39.3		36.3
HVAC2		40.1		37.1
HVAC3		43.1		40.1
HVAC4		44.9		41.9
Vacuum1		4.7		0
Vacuum2		5.7		0
Vacuum3		7		0
Vacuum4		9		0
Vacuum5		12.8		0
Vacuum6		23.8		0
Vacuum7		24.3		0
Vacuum8		24.7		0
Vacuum9		25.3		0
Vacuum10		25.7		0
Vacuum11		26.1		0
Vacuum12		26.4		0
Vacuum13		26.7		0
Vacuum14		30.2		0
Vacuum15		31.4		0
Vacuum16		29		0
Vacuum17		28.3		0
Vacuum18		13.8		0
Vacuum19		9.2		0
Vacuum20		7.2		0
Vacuum21		5.9		0
Vacuum22		4.9		0
Vacuum23		4.1		0
Vacuum24		3.5		0
Vacuum25		2.9		0
Vacuum26		2.6		0
2 1.Fl 51.1	44.6	0.0	0.0	
Car Wash Entrance		48.3		0
Car Wash Exit		25.7		0
Drive-Through Speaker1		3.7		-0.3
Drive-Through Speaker2		24.3		20.3
HVAC1		36.8		33.8
HVAC2		37.7		34.7
HVAC3		42.6		39.6
HVAC4		44.6		41.6
Vacuum1		1.6		0
Vacuum2		2.2		0
Vacuum3		17.7		0
Vacuum4		18.3		0
Vacuum5		18.9		0
Vacuum6		19.5		0
Vacuum7		20.1		0
Vacuum8		20.6		0
Vacuum9		21.3		0
Vacuum10		21.9		0
Vacuum11		22.4		0
Vacuum12		22.8		0

Vacuum13	23.2	0
Vacuum14	27.6	0
Vacuum15	25.7	0
Vacuum16	24.8	0
Vacuum17	24	0
Vacuum18	23	0
Vacuum19	5.9	0
Vacuum20	5	0
Vacuum21	3.9	0
Vacuum22	2.9	0
Vacuum23	2.2	0
Vacuum24	1.5	0
Vacuum25	0.9	0
Vacuum26	0.3	0
2 2.Fl 54.4 45.1 0.0 0.0		
Car Wash Entrance	52.8	0
Car Wash Exit	29.5	0
Drive-Through Speaker1	13.8	9.8
Drive-Through Speaker2	25.6	21.6
HVAC1	38.3	35.3
HVAC2	39.2	36.2
HVAC3	43.2	40.2
HVAC4	44.6	41.6
Vacuum1	12	0
Vacuum2	16	0
Vacuum3	23.4	0
Vacuum4	24	0
Vacuum5	24.7	0
Vacuum6	25.3	0
Vacuum7	26	0
Vacuum8	26.6	0
Vacuum9	27.3	0
Vacuum10	27.9	0
Vacuum11	28.5	0
Vacuum12	28.9	0
Vacuum13	29.4	0
Vacuum14	34.7	0
Vacuum15	32.7	0
Vacuum16	31.6	0
Vacuum17	30.6	0
Vacuum18	29.5	0
Vacuum19	16.3	0
Vacuum20	12.2	0
Vacuum21	9.4	0
Vacuum22	7.9	0
Vacuum23	6.6	0
Vacuum24	5.7	0
Vacuum25	4.8	0
Vacuum26	4.1	0
2 3.Fl 54.3 45.4 0.0 0.0		
Car Wash Entrance	52.6	0
Car Wash Exit	29.7	0
Drive-Through Speaker1	14.2	10.2
Drive-Through Speaker2	26.2	22.2
HVAC1	38.7	35.7
HVAC2	39.6	36.6
HVAC3	43.1	40.1
HVAC4	44.9	41.9
Vacuum1	12.3	0
Vacuum2	16.1	0
Vacuum3	23.3	0
Vacuum4	24	0
Vacuum5	24.6	0
Vacuum6	25.3	0
Vacuum7	25.9	0
Vacuum8	26.5	0
Vacuum9	27.2	0
Vacuum10	27.8	0
Vacuum11	28.4	0
Vacuum12	28.9	0
Vacuum13	29.4	0
Vacuum14	34.5	0
Vacuum15	32.5	0
Vacuum16	31.4	0
Vacuum17	30.5	0
Vacuum18	29.4	0
Vacuum19	16.3	0
Vacuum20	12.3	0
Vacuum21	9.6	0
Vacuum22	8	0
Vacuum23	6.8	0
Vacuum24	5.9	0
Vacuum25	5.1	0
Vacuum26	4.4	0
3 1.Fl 49.3 35.7 0.0 0.0		
Car Wash Entrance	48.6	0
Car Wash Exit	26.7	0
Drive-Through Speaker1	0.6	-3.4
Drive-Through Speaker2	6.7	2.7
HVAC1	29.1	26.1
HVAC2	29.9	26.9
HVAC3	33.7	30.7
HVAC4	35.2	32.2
Vacuum1	17	0
Vacuum2	17.7	0
Vacuum3	18.3	0
Vacuum4	19	0
Vacuum5	19.6	0
Vacuum6	20.3	0
Vacuum7	21.1	0
Vacuum8	21.8	0
Vacuum9	22.6	0
Vacuum10	23.4	0
Vacuum11	24.1	0
Vacuum12	24.7	0
Vacuum13	25.2	0
Vacuum14	28.7	0
Vacuum15	27.4	0
Vacuum16	26.2	0
Vacuum17	25.1	0
Vacuum18	23.9	0
Vacuum19	22.9	0
Vacuum20	21.9	0
Vacuum21	5.2	0
Vacuum22	4.2	0
Vacuum23	3.4	0
Vacuum24	2.7	0
Vacuum25	2	0
Vacuum26	1.4	0
3 2.Fl 54.1 40.5 0.0 0.0		
Car Wash Entrance	53.2	0
Car Wash Exit	28.7	0
Drive-Through Speaker1	5.3	1.3
Drive-Through Speaker2	16.2	12.2
HVAC1	33.3	30.3
HVAC2	34.2	31.2
HVAC3	37.6	34.6
HVAC4	40.7	37.7
Vacuum1	22.7	0

Vacuum2	23.4			0	
Vacuum3	24.1			0	
Vacuum4	24.9			0	
Vacuum5	25.6			0	
Vacuum6	26.4			0	
Vacuum7	27.2			0	
Vacuum8	28			0	
Vacuum9	28.9			0	
Vacuum10	29.8			0	
Vacuum11	30.6			0	
Vacuum12	31.3			0	
Vacuum13	32.1			0	
Vacuum14	36.8			0	
Vacuum15	35			0	
Vacuum16	33.4			0	
Vacuum17	32.1			0	
Vacuum18	30.7			0	
Vacuum19	29.4			0	
Vacuum20	28.3			0	
Vacuum21	21.3			0	
Vacuum22	17.3			0	
Vacuum23	14.4			0	
Vacuum24	12.7			0	
Vacuum25	11.3			0	
Vacuum26	10			0	
3	3.Fl	54.5	45.0	0.0	0.0
Car Wash Entrance				53	0
Car Wash Exit				29.9	0
Drive-Through Speaker1				5.8	1.8
Drive-Through Speaker2				17.1	13.1
HVAC1				38.2	35.2
HVAC2				39	36
HVAC3				43.1	40.1
HVAC4				44.6	41.6
Vacuum1				22.7	0
Vacuum2				23.4	0
Vacuum3				24.1	0
Vacuum4				24.8	0
Vacuum5				25.6	0
Vacuum6				26.3	0
Vacuum7				27.2	0
Vacuum8				27.9	0
Vacuum9				28.8	0
Vacuum10				29.7	0
Vacuum11				30.5	0
Vacuum12				31.2	0
Vacuum13				31.9	0
Vacuum14				36.3	0
Vacuum15				34.7	0
Vacuum16				33.2	0
Vacuum17				31.9	0
Vacuum18				30.5	0
Vacuum19				29.3	0
Vacuum20				28.2	0
Vacuum21				21.3	0
Vacuum22				17.4	0
Vacuum23				14.5	0
Vacuum24				12.8	0
Vacuum25				11.4	0
Vacuum26				10.2	0
4	1.Fl	48.6	36.9	0.0	0.0
Car Wash Entrance				47.4	0
Car Wash Exit				27	0
Drive-Through Speaker1				-0.4	-4.4
Drive-Through Speaker2				4.7	0.7
HVAC1				32.2	29.2
HVAC2				32.2	29.2
HVAC3				34.5	31.5
HVAC4				35.5	32.5
Vacuum1				17.5	0
Vacuum2				18.2	0
Vacuum3				18.9	0
Vacuum4				19.6	0
Vacuum5				20.4	0
Vacuum6				21.2	0
Vacuum7				22.1	0
Vacuum8				23	0
Vacuum9				24	0
Vacuum10				25	0
Vacuum11				26	0
Vacuum12				27	0
Vacuum13				27.9	0
Vacuum14				30.2	0
Vacuum15				28.5	0
Vacuum16				27	0
Vacuum17				25.7	0
Vacuum18				24.4	0
Vacuum19				23.2	0
Vacuum20				22.2	0
Vacuum21				21	0
Vacuum22				20.2	0
Vacuum23				19.4	0
Vacuum24				21	0
Vacuum25				20.3	0
Vacuum26				19.7	0
4	2.Fl	53.4	41.1	0.0	0.0
Car Wash Entrance				51.9	0
Car Wash Exit				29.2	0
Drive-Through Speaker1				1	-3
Drive-Through Speaker2				6.4	2.4
HVAC1				35.9	32.9
HVAC2				36.4	33.4
HVAC3				38.4	35.4
HVAC4				40.3	37.3
Vacuum1				23.3	0
Vacuum2				24	0
Vacuum3				24.8	0
Vacuum4				25.6	0
Vacuum5				26.5	0
Vacuum6				27.4	0
Vacuum7				28.5	0
Vacuum8				29.4	0
Vacuum9				30.7	0
Vacuum10				31.9	0
Vacuum11				33.2	0
Vacuum12				34.4	0
Vacuum13				35.9	0
Vacuum14				38.9	0
Vacuum15				36.4	0
Vacuum16				34.4	0
Vacuum17				32.8	0
Vacuum18				31.2	0
Vacuum19				29.9	0
Vacuum20				28.6	0
Vacuum21				27.3	0
Vacuum22				26.3	0
Vacuum23				25.4	0
Vacuum24				27	0
Vacuum25				26.2	0

Vacuum26				25.4		0
4	3.Fl	54.0	45.0	0.0	0.0	
Car Wash Entrance				51.7		0
Car Wash Exit				30.3		0
Drive-Through Speaker1				1.6		-2.4
Drive-Through Speaker2				6.9		2.9
HVAC1				38.8		35.8
HVAC2				39.5		36.5
HVAC3				43.2		40.2
HVAC4				44.2		41.2
Vacuum1				23.2		0
Vacuum2				24		0
Vacuum3				24.8		0
Vacuum4				25.6		0
Vacuum5				26.4		0
Vacuum6				27.3		0
Vacuum7				28.4		0
Vacuum8				29.3		0
Vacuum9				30.5		0
Vacuum10				31.7		0
Vacuum11				32.9		0
Vacuum12				34.1		0
Vacuum13				35.5		0
Vacuum14				38.2		0
Vacuum15				36		0
Vacuum16				34.1		0
Vacuum17				32.6		0
Vacuum18				31.1		0
Vacuum19				29.7		0
Vacuum20				28.5		0
Vacuum21				27.2		0
Vacuum22				26.2		0
Vacuum23				25.3		0
Vacuum24				26.9		0
Vacuum25				26.1		0
Vacuum26				25.4		0
5	1.Fl	49.1	41.8	0.0	0.0	
Car Wash Entrance				45.6		0
Car Wash Exit				37.9		0
Drive-Through Speaker1				-0.6		-4.6
Drive-Through Speaker2				4.3		0.3
HVAC1				37.3		34.3
HVAC2				37.6		34.6
HVAC3				39.4		36.4
HVAC4				40.2		37.2
Vacuum1				19.8		0
Vacuum2				18.5		0
Vacuum3				19.2		0
Vacuum4				20		0
Vacuum5				20.9		0
Vacuum6				21.7		0
Vacuum7				22.7		0
Vacuum8				23.7		0
Vacuum9				24.9		0
Vacuum10				26.2		0
Vacuum11				27.5		0
Vacuum12				29		0
Vacuum13				30.7		0
Vacuum14				29.1		0
Vacuum15				27.7		0
Vacuum16				26.4		0
Vacuum17				25.3		0
Vacuum18				24.1		0
Vacuum19				25.2		0
Vacuum20				24.2		0
Vacuum21				23.1		0
Vacuum22				22.3		0
Vacuum23				21.5		0
Vacuum24				20.9		0
Vacuum25				20.2		0
Vacuum26				19.5		0
5	2.Fl	53.4	44.3	0.0	0.0	
Car Wash Entrance				50		0
Car Wash Exit				42.5		0
Drive-Through Speaker1				0		-4
Drive-Through Speaker2				4.8		0.8
HVAC1				38.4		35.4
HVAC2				39.5		36.5
HVAC3				41.8		38.8
HVAC4				43.7		40.7
Vacuum1				25.5		0
Vacuum2				24.4		0
Vacuum3				25.2		0
Vacuum4				26.1		0
Vacuum5				27.1		0
Vacuum6				28.1		0
Vacuum7				29.2		0
Vacuum8				30.4		0
Vacuum9				31.8		0
Vacuum10				33.4		0
Vacuum11				35.2		0
Vacuum12				37.2		0
Vacuum13				39.8		0
Vacuum14				37.4		0
Vacuum15				35.4		0
Vacuum16				33.7		0
Vacuum17				32.3		0
Vacuum18				30.8		0
Vacuum19				31.6		0
Vacuum20				30.5		0
Vacuum21				29.3		0
Vacuum22				28.4		0
Vacuum23				27.5		0
Vacuum24				26.7		0
Vacuum25				26		0
Vacuum26				25.2		0
5	3.Fl	53.7	46.0	0.0	0.0	
Car Wash Entrance				49.9		0
Car Wash Exit				42.5		0
Drive-Through Speaker1				0.2		-3.8
Drive-Through Speaker2				4.9		0.9
HVAC1				39.5		36.5
HVAC2				39.8		36.8
HVAC3				44.6		41.6
HVAC4				44.9		41.9
Vacuum1				25.5		0
Vacuum2				24.3		0
Vacuum3				25.2		0
Vacuum4				26		0
Vacuum5				27		0
Vacuum6				28		0
Vacuum7				29.1		0
Vacuum8				30.3		0
Vacuum9				31.7		0
Vacuum10				33.2		0
Vacuum11				34.8		0
Vacuum12				36.7		0
Vacuum13				39		0
Vacuum14				36.9		0

Vacuum15				35		0
Vacuum16				33.4		0
Vacuum17				32		0
Vacuum18				30.7		0
Vacuum19				31.5		0
Vacuum20				30.4		0
Vacuum21				29.2		0
Vacuum22				28.3		0
Vacuum23				27.4		0
Vacuum24				26.7		0
Vacuum25				25.9		0
Vacuum26				25.2		0
6	1.Fl	49.3	43.8	0.0	0.0	
Car Wash Entrance				43.6		0
Car Wash Exit				37.7		0
Drive-Through Speaker1				-0.8		-4.8
Drive-Through Speaker2				3.9		-0.1
HVAC1				38.3		35.3
HVAC2				39.6		36.6
HVAC3				42.1		39.1
HVAC4				41.9		38.9
Vacuum1				22		0
Vacuum2				22.6		0
Vacuum3				23.2		0
Vacuum4				23.9		0
Vacuum5				24.5		0
Vacuum6				24.3		0
Vacuum7				25		0
Vacuum8				25.9		0
Vacuum9				26.5		0
Vacuum10				27.5		0
Vacuum11				28.5		0
Vacuum12				29.8		0
Vacuum13				31.1		0
Vacuum14				26.4		0
Vacuum15				25.7		0
Vacuum16				24.9		0
Vacuum17				24.1		0
Vacuum18				25.1		0
Vacuum19				24.3		0
Vacuum20				23.6		0
Vacuum21				22.7		0
Vacuum22				22		0
Vacuum23				21.3		0
Vacuum24				20.7		0
Vacuum25				20.1		0
Vacuum26				19.6		0
6	2.Fl	52.7	45.6	0.0	0.0	
Car Wash Entrance				47.8		0
Car Wash Exit				42.3		0
Drive-Through Speaker1				1.5		-2.5
Drive-Through Speaker2				4		0
HVAC1				38.5		35.5
HVAC2				40.2		37.2
HVAC3				42.6		39.6
HVAC4				45.6		42.6
Vacuum1				25.1		0
Vacuum2				25.9		0
Vacuum3				26.6		0
Vacuum4				27.4		0
Vacuum5				28.2		0
Vacuum6				28		0
Vacuum7				29.2		0
Vacuum8				30.3		0
Vacuum9				31.7		0
Vacuum10				33.3		0
Vacuum11				35		0
Vacuum12				37.1		0
Vacuum13				39.7		0
Vacuum14				33.6		0
Vacuum15				32.5		0
Vacuum16				31.4		0
Vacuum17				30.4		0
Vacuum18				31.2		0
Vacuum19				30.3		0
Vacuum20				29.4		0
Vacuum21				28.3		0
Vacuum22				27.5		0
Vacuum23				26.7		0
Vacuum24				26.1		0
Vacuum25				25.4		0
Vacuum26				24.7		0
6	3.Fl	52.8	45.9	0.0	0.0	
Car Wash Entrance				47.7		0
Car Wash Exit				42.3		0
Drive-Through Speaker1				1.8		-2.2
Drive-Through Speaker2				4.1		0.1
HVAC1				38.4		35.4
HVAC2				40.3		37.3
HVAC3				42.6		39.6
HVAC4				46.1		43.1
Vacuum1				25.1		0
Vacuum2				25.8		0
Vacuum3				26.6		0
Vacuum4				27.3		0
Vacuum5				28.2		0
Vacuum6				27.9		0
Vacuum7				29		0
Vacuum8				30.2		0
Vacuum9				31.5		0
Vacuum10				33		0
Vacuum11				34.6		0
Vacuum12				36.6		0
Vacuum13				38.9		0
Vacuum14				33.4		0
Vacuum15				32.3		0
Vacuum16				31.3		0
Vacuum17				30.3		0
Vacuum18				31.1		0
Vacuum19				30.2		0
Vacuum20				29.3		0
Vacuum21				28.3		0
Vacuum22				27.5		0
Vacuum23				26.7		0
Vacuum24				26		0
Vacuum25				25.3		0
Vacuum26				24.7		0
7	1.Fl	53.8	45.3	0.0	0.0	
Car Wash Entrance				47.7		0
Car Wash Exit				27.8		0
Drive-Through Speaker1				1.3		-2.7
Drive-Through Speaker2				4.6		0.6
HVAC1				39		36
HVAC2				39.9		36.9
HVAC3				42.7		39.7
HVAC4				45		42
Vacuum1				27.5		0
Vacuum2				28.4		0
Vacuum3				29.3		0

Vacuum4	30.3	0			
Vacuum5	31.5	0			
Vacuum6	32.7	0			
Vacuum7	34.2	0			
Vacuum8	35.8	0			
Vacuum9	37.3	0			
Vacuum10	39.5	0			
Vacuum11	41.5	0			
Vacuum12	43.3	0			
Vacuum13	43.7	0			
Vacuum14	35.3	0			
Vacuum15	34.9	0			
Vacuum16	34.4	0			
Vacuum17	34.8	0			
Vacuum18	34.1	0			
Vacuum19	33.3	0			
Vacuum20	32.4	0			
Vacuum21	31.4	0			
Vacuum22	29.8	0			
Vacuum23	29	0			
Vacuum24	28.2	0			
Vacuum25	27.5	0			
Vacuum26	26.8	0			
7 2.Fl	53.7	45.5	0.0	0.0	
Car Wash Entrance	48.2	0			
Car Wash Exit	29	0			
Drive-Through Speaker1	1.4	-2.6			
Drive-Through Speaker2	4.6	0.6			
HVAC1	39.1	36.1			
HVAC2	40	37			
HVAC3	43.5	40.5			
HVAC4	44.9	41.9			
Vacuum1	27.5	0			
Vacuum2	28.4	0			
Vacuum3	29.3	0			
Vacuum4	30.3	0			
Vacuum5	31.5	0			
Vacuum6	32.6	0			
Vacuum7	34.1	0			
Vacuum8	35.6	0			
Vacuum9	37.1	0			
Vacuum10	39.1	0			
Vacuum11	41	0			
Vacuum12	42.6	0			
Vacuum13	42.5	0			
Vacuum14	33.8	0			
Vacuum15	33.6	0			
Vacuum16	33.2	0			
Vacuum17	34	0			
Vacuum18	33.3	0			
Vacuum19	32.5	0			
Vacuum20	31.7	0			
Vacuum21	30.6	0			
Vacuum22	29.8	0			
Vacuum23	29	0			
Vacuum24	28.2	0			
Vacuum25	27.5	0			
Vacuum26	26.8	0			
7 3.Fl	53.4	45.7	0.0	0.0	
Car Wash Entrance	48.1	0			
Car Wash Exit	29.1	0			
Drive-Through Speaker1	1.5	-2.5			
Drive-Through Speaker2	4.7	0.7			
HVAC1	39	36			
HVAC2	40.3	37.3			
HVAC3	43.5	40.5			
HVAC4	45.3	42.3			
Vacuum1	27.4	0			
Vacuum2	28.3	0			
Vacuum3	29.2	0			
Vacuum4	30.2	0			
Vacuum5	31.3	0			
Vacuum6	32.4	0			
Vacuum7	33.8	0			
Vacuum8	35.3	0			
Vacuum9	36.6	0			
Vacuum10	38.4	0			
Vacuum11	40	0			
Vacuum12	41.3	0			
Vacuum13	41.2	0			
Vacuum14	33.5	0			
Vacuum15	33.4	0			
Vacuum16	32.9	0			
Vacuum17	33.8	0			
Vacuum18	33.1	0			
Vacuum19	32.4	0			
Vacuum20	31.6	0			
Vacuum21	30.5	0			
Vacuum22	29.7	0			
Vacuum23	28.9	0			
Vacuum24	28.2	0			
Vacuum25	27.4	0			
Vacuum26	26.7	0			
8 1.Fl	54.2	47.0	0.0	0.0	
Car Wash Entrance	28.7	0			
Car Wash Exit	34	0			
Drive-Through Speaker1	4.5	0.5			
Drive-Through Speaker2	10.7	6.7			
HVAC1	40.3	37.3			
HVAC2	41.3	38.3			
HVAC3	44	41			
HVAC4	47	44			
Vacuum1	34.7	0			
Vacuum2	36.5	0			
Vacuum3	38.5	0			
Vacuum4	40.7	0			
Vacuum5	42.9	0			
Vacuum6	43.8	0			
Vacuum7	43.1	0			
Vacuum8	41.5	0			
Vacuum9	39.1	0			
Vacuum10	37.1	0			
Vacuum11	35.5	0			
Vacuum12	34.2	0			
Vacuum13	32.6	0			
Vacuum14	30.9	0			
Vacuum15	31.3	0			
Vacuum16	33.5	0			
Vacuum17	34.1	0			
Vacuum18	34.8	0			
Vacuum19	35.2	0			
Vacuum20	35.4	0			
Vacuum21	35.2	0			
Vacuum22	34.8	0			
Vacuum23	34.2	0			
Vacuum24	33.5	0			
Vacuum25	32.6	0			
Vacuum26	31.8	0			
8 2.Fl	54.2	47.7	0.0	0.0	

Car Wash Entrance	30			0	
Car Wash Exit	35.5			0	
Drive-Through Speaker1	4.7			0.7	
Drive-Through Speaker2	11.2			7.2	
HVAC1	40.5			37.5	
HVAC2	41.4			38.4	
HVAC3	45.5			42.5	
HVAC4	47.5			44.5	
Vacuum1	34.6			0	
Vacuum2	36.4			0	
Vacuum3	38.3			0	
Vacuum4	40.4			0	
Vacuum5	42.3			0	
Vacuum6	43.1			0	
Vacuum7	42.5			0	
Vacuum8	41			0	
Vacuum9	38.7			0	
Vacuum10	36.8			0	
Vacuum11	35.1			0	
Vacuum12	33.6			0	
Vacuum13	32.6			0	
Vacuum14	29.8			0	
Vacuum15	30.8			0	
Vacuum16	33.2			0	
Vacuum17	33.9			0	
Vacuum18	34.5			0	
Vacuum19	35			0	
Vacuum20	35.3			0	
Vacuum21	35.1			0	
Vacuum22	34.7			0	
Vacuum23	34.1			0	
Vacuum24	33.4			0	
Vacuum25	32.6			0	
Vacuum26	31.8			0	
8	3.FI	53.9	47.8	0.0	0.0
Car Wash Entrance	30			0	
Car Wash Exit	35.5			0	
Drive-Through Speaker1	4.9			0.9	
Drive-Through Speaker2	11.7			7.7	
HVAC1	40.4			37.4	
HVAC2	41.7			38.7	
HVAC3	45.9			42.9	
HVAC4	47.5			44.5	
Vacuum1	34.3			0	
Vacuum2	36			0	
Vacuum3	37.7			0	
Vacuum4	39.5			0	
Vacuum5	41.1			0	
Vacuum6	41.7			0	
Vacuum7	41.2			0	
Vacuum8	40			0	
Vacuum9	38.1			0	
Vacuum10	36.4			0	
Vacuum11	34.8			0	
Vacuum12	33.4			0	
Vacuum13	31.4			0	
Vacuum14	29.7			0	
Vacuum15	30.6			0	
Vacuum16	33			0	
Vacuum17	33.7			0	
Vacuum18	34.3			0	
Vacuum19	34.8			0	
Vacuum20	35			0	
Vacuum21	34.9			0	
Vacuum22	34.5			0	
Vacuum23	33.9			0	
Vacuum24	33.2			0	
Vacuum25	32.4			0	
Vacuum26	31.6			0	
9	1.FI	56.7	48.2	0.0	0.0
Car Wash Entrance	19.9			0	
Car Wash Exit	54.5			0	
Drive-Through Speaker1	5.2			1.2	
Drive-Through Speaker2	10.7			6.7	
HVAC1	41.7			38.7	
HVAC2	43.5			40.5	
HVAC3	46.2			43.2	
HVAC4	47.3			44.3	
Vacuum1	41.1			0	
Vacuum2	38.7			0	
Vacuum3	36.5			0	
Vacuum4	34.8			0	
Vacuum5	33.2			0	
Vacuum6	32			0	
Vacuum7	30.7			0	
Vacuum8	29.8			0	
Vacuum9	28.9			0	
Vacuum10	28.1			0	
Vacuum11	27.5			0	
Vacuum12	26.9			0	
Vacuum13	26.6			0	
Vacuum14	25.1			0	
Vacuum15	27.1			0	
Vacuum16	27.7			0	
Vacuum17	28.3			0	
Vacuum18	29.1			0	
Vacuum19	29.7			0	
Vacuum20	30.6			0	
Vacuum21	31.7			0	
Vacuum22	32.5			0	
Vacuum23	33.4			0	
Vacuum24	34.1			0	
Vacuum25	34.8			0	
Vacuum26	34			0	
9	2.FI	57.6	49.9	0.0	0.0
Car Wash Entrance	20.8			0	
Car Wash Exit	55.1			0	
Drive-Through Speaker1	5.4			1.4	
Drive-Through Speaker2	11.2			7.2	
HVAC1	42.4			39.4	
HVAC2	43.4			40.4	
HVAC3	48.2			45.2	
HVAC4	49.5			46.5	
Vacuum1	40.7			0	
Vacuum2	38.4			0	
Vacuum3	36.4			0	
Vacuum4	34.7			0	
Vacuum5	33.2			0	
Vacuum6	31.9			0	
Vacuum7	30.7			0	
Vacuum8	29.7			0	
Vacuum9	28.7			0	
Vacuum10	27.9			0	
Vacuum11	27.5			0	
Vacuum12	26.9			0	
Vacuum13	26.6			0	
Vacuum14	25.1			0	
Vacuum15	27.1			0	
Vacuum16	27.4			0	

Vacuum17	28.1	0
Vacuum18	28.9	0
Vacuum19	29.7	0
Vacuum20	30.5	0
Vacuum21	31.6	0
Vacuum22	32.5	0
Vacuum23	33.3	0
Vacuum24	34	0
Vacuum25	34.7	0
Vacuum26	33.9	0
9 3.Fl 57.7 50.5 0.0 0.0		
Car Wash Entrance	20.8	0
Car Wash Exit	55.1	0
Drive-Through Speaker1	5.6	1.6
Drive-Through Speaker2	11.7	7.7
HVAC1	42.2	39.2
HVAC2	43.7	40.7
HVAC3	48.9	45.9
HVAC4	50.3	47.3
Vacuum1	39.7	0
Vacuum2	37.8	0
Vacuum3	36	0
Vacuum4	34.4	0
Vacuum5	33	0
Vacuum6	31.7	0
Vacuum7	30.6	0
Vacuum8	29.6	0
Vacuum9	28.7	0
Vacuum10	27.8	0
Vacuum11	27	0
Vacuum12	26.3	0
Vacuum13	26.6	0
Vacuum14	23.8	0
Vacuum15	26.7	0
Vacuum16	27.3	0
Vacuum17	28	0
Vacuum18	28.8	0
Vacuum19	29.6	0
Vacuum20	30.4	0
Vacuum21	31.5	0
Vacuum22	32.3	0
Vacuum23	33.1	0
Vacuum24	33.8	0
Vacuum25	34.5	0
Vacuum26	33.6	0
10 1.Fl 55.8 49.6 0.0 0.0		
Car Wash Entrance	15.8	0
Car Wash Exit	52.8	0
Drive-Through Speaker1	6.1	2.1
Drive-Through Speaker2	10.8	6.8
HVAC1	43.5	40.5
HVAC2	45.6	42.6
HVAC3	47.7	44.7
HVAC4	48.2	45.2
Vacuum1	28.3	0
Vacuum2	27.3	0
Vacuum3	26.3	0
Vacuum4	25.4	0
Vacuum5	24.6	0
Vacuum6	23.8	0
Vacuum7	24.6	0
Vacuum8	24	0
Vacuum9	23.7	0
Vacuum10	23.2	0
Vacuum11	22.8	0
Vacuum12	22.4	0
Vacuum13	22.4	0
Vacuum14	22.6	0
Vacuum15	22.6	0
Vacuum16	23	0
Vacuum17	23.5	0
Vacuum18	23.8	0
Vacuum19	24.4	0
Vacuum20	25	0
Vacuum21	25.8	0
Vacuum22	26.5	0
Vacuum23	27.2	0
Vacuum24	27.9	0
Vacuum25	26.7	0
Vacuum26	27.6	0
10 2.Fl 57.2 51.5 0.0 0.0		
Car Wash Entrance	16.6	0
Car Wash Exit	53.8	0
Drive-Through Speaker1	6.4	2.4
Drive-Through Speaker2	11.1	7.1
HVAC1	44.5	41.5
HVAC2	46	43
HVAC3	50.1	47.1
HVAC4	50.4	47.4
Vacuum1	28.3	0
Vacuum2	27.2	0
Vacuum3	26.3	0
Vacuum4	25.4	0
Vacuum5	24.5	0
Vacuum6	23.8	0
Vacuum7	24.6	0
Vacuum8	24	0
Vacuum9	23.7	0
Vacuum10	23.2	0
Vacuum11	22.8	0
Vacuum12	22.4	0
Vacuum13	22.4	0
Vacuum14	22.6	0
Vacuum15	22.7	0
Vacuum16	23.1	0
Vacuum17	23.5	0
Vacuum18	23.8	0
Vacuum19	24.4	0
Vacuum20	25	0
Vacuum21	25.8	0
Vacuum22	26.5	0
Vacuum23	27.2	0
Vacuum24	27.9	0
Vacuum25	26.7	0
Vacuum26	27.6	0
10 3.Fl 57.6 52.2 0.0 0.0		
Car Wash Entrance	16.7	0
Car Wash Exit	53.8	0
Drive-Through Speaker1	6.6	2.6
Drive-Through Speaker2	11.4	7.4
HVAC1	44.4	41.4
HVAC2	46	43
HVAC3	51.1	48.1
HVAC4	51.3	48.3
Vacuum1	28.2	0
Vacuum2	27.2	0
Vacuum3	26.2	0
Vacuum4	25.3	0
Vacuum5	24.5	0

Vacuum6	23.8	0		
Vacuum7	24.6	0		
Vacuum8	24	0		
Vacuum9	23.4	0		
Vacuum10	22.8	0		
Vacuum11	22.3	0		
Vacuum12	21.8	0		
Vacuum13	22.4	0		
Vacuum14	22.6	0		
Vacuum15	22.2	0		
Vacuum16	22.7	0		
Vacuum17	23.2	0		
Vacuum18	23.8	0		
Vacuum19	24.3	0		
Vacuum20	25	0		
Vacuum21	25.8	0		
Vacuum22	26.5	0		
Vacuum23	27.2	0		
Vacuum24	27.9	0		
Vacuum25	26.6	0		
Vacuum26	27.5	0		
11 1.Fl 54.0 49.5 0.0 0.0				
Car Wash Entrance	12.7	0		
Car Wash Exit	48.5	0		
Drive-Through Speaker1	8.2	4.2		
Drive-Through Speaker2	11.9	7.9		
HVAC1	46.1	43.1		
HVAC2	46.5	43.5		
HVAC3	47.1	44.1		
HVAC4	46.3	43.3		
Vacuum1	23.2	0		
Vacuum2	22.6	0		
Vacuum3	20.3	0		
Vacuum4	19.8	0		
Vacuum5	19.2	0		
Vacuum6	18.7	0		
Vacuum7	18.2	0		
Vacuum8	17.8	0		
Vacuum9	17.4	0		
Vacuum10	17.5	0		
Vacuum11	17.2	0		
Vacuum12	17	0		
Vacuum13	18.9	0		
Vacuum14	19.1	0		
Vacuum15	18.9	0		
Vacuum16	19.3	0		
Vacuum17	19.6	0		
Vacuum18	19.7	0		
Vacuum19	20.1	0		
Vacuum20	20.6	0		
Vacuum21	21.2	0		
Vacuum22	21.7	0		
Vacuum23	19.9	0		
Vacuum24	20.4	0		
Vacuum25	21	0		
Vacuum26	21.6	0		
11 2.Fl 55.8 51.5 0.0 0.0				
Car Wash Entrance	13.5	0		
Car Wash Exit	49.6	0		
Drive-Through Speaker1	8.4	4.4		
Drive-Through Speaker2	12.3	8.3		
HVAC1	47.5	44.5		
HVAC2	48.5	45.5		
HVAC3	49.4	46.4		
HVAC4	48.3	45.3		
Vacuum1	23.2	0		
Vacuum2	22.6	0		
Vacuum3	20.3	0		
Vacuum4	19.8	0		
Vacuum5	19.2	0		
Vacuum6	18.7	0		
Vacuum7	18.3	0		
Vacuum8	17.8	0		
Vacuum9	17.4	0		
Vacuum10	17.5	0		
Vacuum11	17.2	0		
Vacuum12	17	0		
Vacuum13	18.9	0		
Vacuum14	19.1	0		
Vacuum15	19	0		
Vacuum16	19.3	0		
Vacuum17	19.6	0		
Vacuum18	19.7	0		
Vacuum19	20.1	0		
Vacuum20	20.6	0		
Vacuum21	21.2	0		
Vacuum22	21.7	0		
Vacuum23	19.9	0		
Vacuum24	20.4	0		
Vacuum25	21	0		
Vacuum26	21.6	0		
11 3.Fl 56.3 52.2 0.0 0.0				
Car Wash Entrance	13.6	0		
Car Wash Exit	49.6	0		
Drive-Through Speaker1	8.6	4.6		
Drive-Through Speaker2	12.8	8.8		
HVAC1	47.6	44.6		
HVAC2	49.2	46.2		
HVAC3	50.5	47.5		
HVAC4	49	46		
Vacuum1	23.2	0		
Vacuum2	22.6	0		
Vacuum3	20.3	0		
Vacuum4	19.8	0		
Vacuum5	19.2	0		
Vacuum6	18.7	0		
Vacuum7	18.2	0		
Vacuum8	17.8	0		
Vacuum9	17.3	0		
Vacuum10	16.9	0		
Vacuum11	17.2	0		
Vacuum12	16.9	0		
Vacuum13	18.9	0		
Vacuum14	19.1	0		
Vacuum15	19	0		
Vacuum16	18.9	0		
Vacuum17	19.2	0		
Vacuum18	19.7	0		
Vacuum19	20.1	0		
Vacuum20	20.6	0		
Vacuum21	21.2	0		
Vacuum22	21.7	0		
Vacuum23	19.9	0		
Vacuum24	20.4	0		
Vacuum25	21	0		
Vacuum26	21.6	0		
12 1.Fl 53.9 50.1 0.0 0.0				
Car Wash Entrance	10.8	0		
Car Wash Exit	45.6	0		

Drive-Through Speaker1	9.7			5.7
Drive-Through Speaker2	10.9			6.9
HVAC1	47.9			44.9
HVAC2	48.5			45.5
HVAC3	46.9			43.9
HVAC4	44.1			41.1
Vacuum1	19.9			0
Vacuum2	19.4			0
Vacuum3	19			0
Vacuum4	18.6			0
Vacuum5	18.2			0
Vacuum6	17.9			0
Vacuum7	15.4			0
Vacuum8	15.1			0
Vacuum9	14.7			0
Vacuum10	15			0
Vacuum11	14.7			0
Vacuum12	14.5			0
Vacuum13	15.1			0
Vacuum14	16.8			0
Vacuum15	16.5			0
Vacuum16	16.8			0
Vacuum17	17.1			0
Vacuum18	17.1			0
Vacuum19	17.4			0
Vacuum20	17.8			0
Vacuum21	18.3			0
Vacuum22	16.4			0
Vacuum23	16.8			0
Vacuum24	17.2			0
Vacuum25	17.6			0
Vacuum26	18.1			0
12 2.Fl 55.4 51.7 0.0 0.0				
Car Wash Entrance	11.6			0
Car Wash Exit	46.8			0
Drive-Through Speaker1	9.9			5.9
Drive-Through Speaker2	11.3			7.3
HVAC1	49.7			46.7
HVAC2	50.4			47.4
HVAC3	47.6			44.6
HVAC4	45.7			42.7
Vacuum1	19.9			0
Vacuum2	19.5			0
Vacuum3	19			0
Vacuum4	18.6			0
Vacuum5	18.2			0
Vacuum6	17.9			0
Vacuum7	15.4			0
Vacuum8	15.1			0
Vacuum9	14.7			0
Vacuum10	15			0
Vacuum11	14.7			0
Vacuum12	14.5			0
Vacuum13	15.1			0
Vacuum14	16.8			0
Vacuum15	16.6			0
Vacuum16	16.8			0
Vacuum17	17.1			0
Vacuum18	17.1			0
Vacuum19	17.4			0
Vacuum20	17.8			0
Vacuum21	18.3			0
Vacuum22	16.3			0
Vacuum23	16.8			0
Vacuum24	17.2			0
Vacuum25	17.6			0
Vacuum26	18.1			0
12 3.Fl 55.7 52.1 0.0 0.0				
Car Wash Entrance	11.7			0
Car Wash Exit	46.8			0
Drive-Through Speaker1	10.2			6.2
Drive-Through Speaker2	11.8			7.8
HVAC1	50.1			47.1
HVAC2	50.9			47.9
HVAC3	47.7			44.7
HVAC4	46			43
Vacuum1	19.9			0
Vacuum2	19.5			0
Vacuum3	19			0
Vacuum4	18.6			0
Vacuum5	18.2			0
Vacuum6	17.9			0
Vacuum7	15.4			0
Vacuum8	15			0
Vacuum9	14.7			0
Vacuum10	14.3			0
Vacuum11	14.7			0
Vacuum12	14.5			0
Vacuum13	15.1			0
Vacuum14	16.8			0
Vacuum15	16.6			0
Vacuum16	16.8			0
Vacuum17	16.7			0
Vacuum18	17.1			0
Vacuum19	17.4			0
Vacuum20	17.8			0
Vacuum21	18.3			0
Vacuum22	16.3			0
Vacuum23	16.8			0
Vacuum24	17.2			0
Vacuum25	17.6			0
Vacuum26	18.1			0
13 1.Fl 53.2 49.9 0.0 0.0				
Car Wash Entrance	9.3			0
Car Wash Exit	41.4			0
Drive-Through Speaker1	11.2			7.2
Drive-Through Speaker2	10.1			6.1
HVAC1	48.4			45.4
HVAC2	48.2			45.2
HVAC3	45.2			42.2
HVAC4	44.2			41.2
Vacuum1	17.4			0
Vacuum2	17			0
Vacuum3	16.7			0
Vacuum4	16.4			0
Vacuum5	16			0
Vacuum6	15.7			0
Vacuum7	15.4			0
Vacuum8	15.1			0
Vacuum9	14.8			0
Vacuum10	14.9			0
Vacuum11	14.7			0
Vacuum12	12.6			0
Vacuum13	13.3			0
Vacuum14	15			0
Vacuum15	14.6			0
Vacuum16	14.9			0
Vacuum17	14.7			0
Vacuum18	15			0

Vacuum19	15.3	0		
Vacuum20	15.7	0		
Vacuum21	13.7	0		
Vacuum22	14.1	0		
Vacuum23	14.4	0		
Vacuum24	14.7	0		
Vacuum25	15.1	0		
Vacuum26	15.5	0		
13	2.Fl	54.7	51.4	0.0
Car Wash Entrance	10.1	0		
Car Wash Exit	42.8	0		
Drive-Through Speaker1	11.5	7.5		
Drive-Through Speaker2	10.6	6.6		
HVAC1	50.5	47.5		
HVAC2	49.9	46.9		
HVAC3	45.2	42.2		
HVAC4	45	42		
Vacuum1	17.4	0		
Vacuum2	17	0		
Vacuum3	16.7	0		
Vacuum4	16.4	0		
Vacuum5	16	0		
Vacuum6	15.7	0		
Vacuum7	15.4	0		
Vacuum8	15.1	0		
Vacuum9	14.8	0		
Vacuum10	14.9	0		
Vacuum11	14.7	0		
Vacuum12	12.6	0		
Vacuum13	13.3	0		
Vacuum14	15	0		
Vacuum15	14.6	0		
Vacuum16	14.9	0		
Vacuum17	14.7	0		
Vacuum18	15	0		
Vacuum19	15.4	0		
Vacuum20	15.7	0		
Vacuum21	13.7	0		
Vacuum22	14.1	0		
Vacuum23	14.4	0		
Vacuum24	14.7	0		
Vacuum25	15.1	0		
Vacuum26	15.5	0		
13	3.Fl	55.0	51.7	0.0
Car Wash Entrance	10.2	0		
Car Wash Exit	42.8	0		
Drive-Through Speaker1	12	8		
Drive-Through Speaker2	11.1	7.1		
HVAC1	51.1	48.1		
HVAC2	50.2	47.2		
HVAC3	45.5	42.5		
HVAC4	43.8	40.8		
Vacuum1	17.4	0		
Vacuum2	17	0		
Vacuum3	16.7	0		
Vacuum4	16.4	0		
Vacuum5	16	0		
Vacuum6	15.7	0		
Vacuum7	15.4	0		
Vacuum8	15.1	0		
Vacuum9	14.8	0		
Vacuum10	14.9	0		
Vacuum11	14.7	0		
Vacuum12	12.6	0		
Vacuum13	13.3	0		
Vacuum14	15	0		
Vacuum15	14.6	0		
Vacuum16	14.9	0		
Vacuum17	14.7	0		
Vacuum18	15	0		
Vacuum19	15.3	0		
Vacuum20	15.7	0		
Vacuum21	13.7	0		
Vacuum22	14.1	0		
Vacuum23	14.4	0		
Vacuum24	14.7	0		
Vacuum25	15.1	0		
Vacuum26	15.5	0		
14	1.Fl	51.6	48.5	0.0
Car Wash Entrance	8	0		
Car Wash Exit	32.7	0		
Drive-Through Speaker1	13.7	9.7		
Drive-Through Speaker2	10	6		
HVAC1	47.5	44.5		
HVAC2	46.4	43.4		
HVAC3	43.3	40.3		
HVAC4	43.2	40.2		
Vacuum1	13.3	0		
Vacuum2	13	0		
Vacuum3	14.8	0		
Vacuum4	14.5	0		
Vacuum5	14.2	0		
Vacuum6	14	0		
Vacuum7	13.7	0		
Vacuum8	13.4	0		
Vacuum9	13.2	0		
Vacuum10	13.3	0		
Vacuum11	13.1	0		
Vacuum12	12.9	0		
Vacuum13	13.3	0		
Vacuum14	13.4	0		
Vacuum15	13.1	0		
Vacuum16	13.3	0		
Vacuum17	13.1	0		
Vacuum18	13.4	0		
Vacuum19	13.6	0		
Vacuum20	11.6	0		
Vacuum21	12	0		
Vacuum22	12.3	0		
Vacuum23	12.5	0		
Vacuum24	12.8	0		
Vacuum25	13.2	0		
Vacuum26	15.8	0		
14	2.Fl	52.9	49.8	0.0
Car Wash Entrance	8.9	0		
Car Wash Exit	34.4	0		
Drive-Through Speaker1	14.5	10.5		
Drive-Through Speaker2	10.4	6.4		
HVAC1	49.3	46.3		
HVAC2	48	45		
HVAC3	43.3	40.3		
HVAC4	43.6	40.6		
Vacuum1	13.3	0		
Vacuum2	13	0		
Vacuum3	14.8	0		
Vacuum4	14.5	0		
Vacuum5	14.3	0		
Vacuum6	14	0		
Vacuum7	13.7	0		

Vacuum8	13.4			0	
Vacuum9	13.2			0	
Vacuum10	13.3			0	
Vacuum11	13.1			0	
Vacuum12	12.9			0	
Vacuum13	13.3			0	
Vacuum14	13.4			0	
Vacuum15	13.1			0	
Vacuum16	13.3			0	
Vacuum17	13.1			0	
Vacuum18	13.4			0	
Vacuum19	13.6			0	
Vacuum20	11.6			0	
Vacuum21	11.9			0	
Vacuum22	12.2			0	
Vacuum23	12.5			0	
Vacuum24	12.8			0	
Vacuum25	13.1			0	
Vacuum26	15.8			0	
14	3.Fl	53.1	50.0	0.0	0.0
Car Wash Entrance	8.9			0	
Car Wash Exit	34.5			0	
Drive-Through Speaker1	15.3			11.3	
Drive-Through Speaker2	10.8			6.8	
HVAC1	49.8			46.8	
HVAC2	48.1			45.1	
HVAC3	43.6			40.6	
HVAC4	42.1			39.1	
Vacuum1	13.3			0	
Vacuum2	13			0	
Vacuum3	14.8			0	
Vacuum4	14.5			0	
Vacuum5	14.3			0	
Vacuum6	14			0	
Vacuum7	13.7			0	
Vacuum8	13.4			0	
Vacuum9	13.2			0	
Vacuum10	13.3			0	
Vacuum11	13.1			0	
Vacuum12	12.9			0	
Vacuum13	13.3			0	
Vacuum14	13.4			0	
Vacuum15	13.1			0	
Vacuum16	13.3			0	
Vacuum17	13.1			0	
Vacuum18	13.4			0	
Vacuum19	13.6			0	
Vacuum20	11.6			0	
Vacuum21	11.9			0	
Vacuum22	12.2			0	
Vacuum23	12.5			0	
Vacuum24	12.8			0	
Vacuum25	13.1			0	
Vacuum26	15.8			0	
15	1.Fl	50.3	47.3	0.0	0.0
Car Wash Entrance	6.8			0	
Car Wash Exit	26			0	
Drive-Through Speaker1	16.8			12.8	
Drive-Through Speaker2	2			-2	
HVAC1	47.5			44.5	
HVAC2	44.3			41.3	
HVAC3	41.4			38.4	
HVAC4	40.4			37.4	
Vacuum1	11.2			0	
Vacuum2	10.9			0	
Vacuum3	10.7			0	
Vacuum4	10.4			0	
Vacuum5	10.1			0	
Vacuum6	9.9			0	
Vacuum7	9.7			0	
Vacuum8	9.4			0	
Vacuum9	9.2			0	
Vacuum10	9.6			0	
Vacuum11	9.4			0	
Vacuum12	9.3			0	
Vacuum13	10.1			0	
Vacuum14	10.2			0	
Vacuum15	9.3			0	
Vacuum16	9.5			0	
Vacuum17	9.1			0	
Vacuum18	9.3			0	
Vacuum19	10.6			0	
Vacuum20	10.9			0	
Vacuum21	12.3			0	
Vacuum22	12.5			0	
Vacuum23	12.8			0	
Vacuum24	13			0	
Vacuum25	13.3			0	
Vacuum26	13.6			0	
15	2.Fl	51.2	48.2	0.0	0.0
Car Wash Entrance	7.7			0	
Car Wash Exit	27.9			0	
Drive-Through Speaker1	17.7			13.7	
Drive-Through Speaker2	2.1			-1.9	
HVAC1	48.2			45.2	
HVAC2	46			43	
HVAC3	41.6			38.6	
HVAC4	40.5			37.5	
Vacuum1	11.2			0	
Vacuum2	10.9			0	
Vacuum3	10.6			0	
Vacuum4	10.4			0	
Vacuum5	10.1			0	
Vacuum6	9.9			0	
Vacuum7	9.6			0	
Vacuum8	9.4			0	
Vacuum9	9.2			0	
Vacuum10	9.5			0	
Vacuum11	9.4			0	
Vacuum12	9.2			0	
Vacuum13	10.1			0	
Vacuum14	10.1			0	
Vacuum15	9.3			0	
Vacuum16	9.5			0	
Vacuum17	9			0	
Vacuum18	9.3			0	
Vacuum19	10.6			0	
Vacuum20	10.9			0	
Vacuum21	12.2			0	
Vacuum22	12.5			0	
Vacuum23	12.7			0	
Vacuum24	13			0	
Vacuum25	13.3			0	
Vacuum26	13.5			0	
15	3.Fl	51.6	48.5	0.0	0.0
Car Wash Entrance	7.7			0	
Car Wash Exit	28.1			0	
Drive-Through Speaker1	18.6			14.6	
Drive-Through Speaker2	2.4			-1.6	

HVAC1			48.2		45.2
HVAC2			47		44
HVAC3			41.9		38.9
HVAC4			40.5		37.5
Vacuum1			11.2		0
Vacuum2			10.9		0
Vacuum3			10.6		0
Vacuum4			10.4		0
Vacuum5			10.1		0
Vacuum6			9.9		0
Vacuum7			9.6		0
Vacuum8			9.4		0
Vacuum9			9.1		0
Vacuum10			9.5		0
Vacuum11			9.4		0
Vacuum12			9.2		0
Vacuum13			10.1		0
Vacuum14			10.1		0
Vacuum15			9.3		0
Vacuum16			9.4		0
Vacuum17			9		0
Vacuum18			9.3		0
Vacuum19			10.6		0
Vacuum20			10.8		0
Vacuum21			12.2		0
Vacuum22			12.5		0
Vacuum23			12.7		0
Vacuum24			13		0
Vacuum25			13.3		0
Vacuum26			13.6		0
16	1.Fl	49.6	46.6	0.0	0.0
Car Wash Entrance			6.1		0
Car Wash Exit			21.8		0
Drive-Through Speaker1			26.1		22.1
Drive-Through Speaker2			8.7		4.7
HVAC1			47.8		44.8
HVAC2			43.6		40.6
HVAC3			36.9		33.9
HVAC4			35.5		32.5
Vacuum1			10.9		0
Vacuum2			10.6		0
Vacuum3			10.4		0
Vacuum4			10.1		0
Vacuum5			9.9		0
Vacuum6			9.7		0
Vacuum7			9.4		0
Vacuum8			9.2		0
Vacuum9			9		0
Vacuum10			8.8		0
Vacuum11			8.5		0
Vacuum12			8.3		0
Vacuum13			8.1		0
Vacuum14			-2.7		0
Vacuum15			-2.5		0
Vacuum16			-2.2		0
Vacuum17			-2		0
Vacuum18			-1.8		0
Vacuum19			-1.1		0
Vacuum20			-0.8		0
Vacuum21			-0.5		0
Vacuum22			-0.2		0
Vacuum23			0.1		0
Vacuum24			0.4		0
Vacuum25			0.9		0
Vacuum26			1.2		0
16	2.Fl	51.1	48.1	0.0	0.0
Car Wash Entrance			6.7		0
Car Wash Exit			23.1		0
Drive-Through Speaker1			27.2		23.2
Drive-Through Speaker2			10.4		6.4
HVAC1			48.6		45.6
HVAC2			45.7		42.7
HVAC3			39.8		36.8
HVAC4			38.6		35.6
Vacuum1			10.9		0
Vacuum2			10.6		0
Vacuum3			10.3		0
Vacuum4			10.1		0
Vacuum5			9.9		0
Vacuum6			9.6		0
Vacuum7			9.4		0
Vacuum8			9.2		0
Vacuum9			8.9		0
Vacuum10			8.7		0
Vacuum11			8.5		0
Vacuum12			8.3		0
Vacuum13			8.1		0
Vacuum14			-2.6		0
Vacuum15			-2.4		0
Vacuum16			-2.2		0
Vacuum17			-2.1		0
Vacuum18			-1.8		0
Vacuum19			-1		0
Vacuum20			-0.7		0
Vacuum21			-0.4		0
Vacuum22			-0.2		0
Vacuum23			0.1		0
Vacuum24			0.4		0
Vacuum25			0.9		0
Vacuum26			1.2		0
16	3.Fl	51.6	48.6	0.0	0.0
Car Wash Entrance			6.7		0
Car Wash Exit			23.8		0
Drive-Through Speaker1			28.4		24.4
Drive-Through Speaker2			12.3		8.3
HVAC1			48.6		45.6
HVAC2			46.7		43.7
HVAC3			41.6		38.6
HVAC4			40.6		37.6
Vacuum1			10.9		0
Vacuum2			10.6		0
Vacuum3			10.3		0
Vacuum4			10.1		0
Vacuum5			9.8		0
Vacuum6			9.6		0
Vacuum7			9.4		0
Vacuum8			9.1		0
Vacuum9			8.9		0
Vacuum10			8.7		0
Vacuum11			8.5		0
Vacuum12			8.3		0
Vacuum13			8.3		0
Vacuum14			-1.9		0
Vacuum15			-1.7		0
Vacuum16			-1.5		0
Vacuum17			-1.4		0
Vacuum18			-1.1		0
Vacuum19			0.1		0
Vacuum20			0.4		0

Vacuum21	0.6			0
Vacuum22	0.9			0
Vacuum23	1.1			0
Vacuum24	1.4			0
Vacuum25	1.9			0
Vacuum26	2.2			0
17 1.Fl 47.7 44.7	0.0	0.0		
Car Wash Entrance	8.1			0
Car Wash Exit	26.8			0
Drive-Through Speaker1	28.4			24.4
Drive-Through Speaker2	23.2			19.2
HVAC1	43.4			40.4
HVAC2	42.7			39.7
HVAC3	39.7			36.7
HVAC4	38.9			35.9
Vacuum1	-4.8			0
Vacuum2	-5.1			0
Vacuum3	-5.3			0
Vacuum4	-5.1			0
Vacuum5	-4.9			0
Vacuum6	-4.7			0
Vacuum7	-4.4			0
Vacuum8	-4.2			0
Vacuum9	-3.8			0
Vacuum10	-7.7			0
Vacuum11	-7.7			0
Vacuum12	-7.8			0
Vacuum13	-7.8			0
Vacuum14	-7.9			0
Vacuum15	-8			0
Vacuum16	-8			0
Vacuum17	-7.8			0
Vacuum18	-7.2			0
Vacuum19	-10.1			0
Vacuum20	-10.2			0
Vacuum21	-10			0
Vacuum22	-9.8			0
Vacuum23	-9.7			0
Vacuum24	-4.1			0
Vacuum25	-4.7			0
Vacuum26	-5.2			0
17 2.Fl 47.8 44.8	0.0	0.0		
Car Wash Entrance	9.4			0
Car Wash Exit	28.7			0
Drive-Through Speaker1	29			25
Drive-Through Speaker2	23.6			19.6
HVAC1	43.5			40.5
HVAC2	42.8			39.8
HVAC3	39.8			36.8
HVAC4	39			36
Vacuum1	-5.3			0
Vacuum2	-5.6			0
Vacuum3	-5.8			0
Vacuum4	-5.5			0
Vacuum5	-5.3			0
Vacuum6	-5			0
Vacuum7	-4.7			0
Vacuum8	-4.4			0
Vacuum9	-3.9			0
Vacuum10	-8			0
Vacuum11	-8			0
Vacuum12	-8			0
Vacuum13	-8.1			0
Vacuum14	-8.6			0
Vacuum15	-8.7			0
Vacuum16	-8.7			0
Vacuum17	-8.5			0
Vacuum18	-7.9			0
Vacuum19	-10.7			0
Vacuum20	-10.8			0
Vacuum21	-10.7			0
Vacuum22	-10.5			0
Vacuum23	-10.3			0
Vacuum24	-4.7			0
Vacuum25	-5.4			0
Vacuum26	-5.9			0
17 3.Fl 47.9 44.9	0.0	0.0		
Car Wash Entrance	9.5			0
Car Wash Exit	28.9			0
Drive-Through Speaker1	29.7			25.7
Drive-Through Speaker2	23.9			19.9
HVAC1	43.6			40.6
HVAC2	42.8			39.8
HVAC3	40.1			37.1
HVAC4	39			36
Vacuum1	-5.3			0
Vacuum2	-5.6			0
Vacuum3	-5.8			0
Vacuum4	-5.5			0
Vacuum5	-5.3			0
Vacuum6	-5			0
Vacuum7	-4.6			0
Vacuum8	-4.4			0
Vacuum9	-3.9			0
Vacuum10	-8.1			0
Vacuum11	-8.1			0
Vacuum12	-8.1			0
Vacuum13	-8.2			0
Vacuum14	-9.1			0
Vacuum15	-9.1			0
Vacuum16	-9.1			0
Vacuum17	-8.9			0
Vacuum18	-8.2			0
Vacuum19	-11			0
Vacuum20	-11.1			0
Vacuum21	-10.9			0
Vacuum22	-10.8			0
Vacuum23	-10.6			0
Vacuum24	-4.8			0
Vacuum25	-5.5			0
Vacuum26	-6			0
18 1.Fl 50.6 47.1	0.0	0.0		
Car Wash Entrance	10.4			0
Car Wash Exit	40.8			0
Drive-Through Speaker1	31.4			27.4
Drive-Through Speaker2	26			22
HVAC1	45.6			42.6
HVAC2	45.2			42.2
HVAC3	42.2			39.2
HVAC4	41.3			38.3
Vacuum1	-4.3			0
Vacuum2	-3.9			0
Vacuum3	-3.5			0
Vacuum4	-2.8			0
Vacuum5	-2.2			0
Vacuum6	-1.6			0
Vacuum7	-0.6			0
Vacuum8	-6.9			0
Vacuum9	-7			0

Vacuum10	-7.1	0			
Vacuum11	-3.2	0			
Vacuum12	-3.8	0			
Vacuum13	-4.4	0			
Vacuum14	-6.7	0			
Vacuum15	-6.9	0			
Vacuum16	-7.1	0			
Vacuum17	-6.4	0			
Vacuum18	-6.2	0			
Vacuum19	-5.8	0			
Vacuum20	-5.5	0			
Vacuum21	-4.3	0			
Vacuum22	-8.7	0			
Vacuum23	-8.6	0			
Vacuum24	-8.3	0			
Vacuum25	-1.2	0			
Vacuum26	-2.2	0			
18	2.Fl	51.0	47.3	0.0	0.0
Car Wash Entrance	11.7	0			
Car Wash Exit	42.3	0			
Drive-Through Speaker1	32.4	28.4			
Drive-Through Speaker2	26.5	22.5			
HVAC1	46	43			
HVAC2	45.5	42.5			
HVAC3	42.2	39.2			
HVAC4	41.4	38.4			
Vacuum1	-4.9	0			
Vacuum2	-4.6	0			
Vacuum3	-4.1	0			
Vacuum4	-3.3	0			
Vacuum5	-2.7	0			
Vacuum6	-1.9	0			
Vacuum7	-0.9	0			
Vacuum8	-7.3	0			
Vacuum9	-7.4	0			
Vacuum10	-7.5	0			
Vacuum11	-3.7	0			
Vacuum12	-4.4	0			
Vacuum13	-4.9	0			
Vacuum14	-7.5	0			
Vacuum15	-7.7	0			
Vacuum16	-7.9	0			
Vacuum17	-7.1	0			
Vacuum18	-6.9	0			
Vacuum19	-6.5	0			
Vacuum20	-6.3	0			
Vacuum21	-5.1	0			
Vacuum22	-9.4	0			
Vacuum23	-9.3	0			
Vacuum24	-9.1	0			
Vacuum25	-1.8	0			
Vacuum26	-2.9	0			
18	3.Fl	51.0	47.4	0.0	0.0
Car Wash Entrance	11.7	0			
Car Wash Exit	42.3	0			
Drive-Through Speaker1	33.3	29.3			
Drive-Through Speaker2	27	23			
HVAC1	45.9	42.9			
HVAC2	45.5	42.5			
HVAC3	42.5	39.5			
HVAC4	41.4	38.4			
Vacuum1	-4.6	0			
Vacuum2	-4.2	0			
Vacuum3	-3.8	0			
Vacuum4	-2.9	0			
Vacuum5	-2.3	0			
Vacuum6	-1.6	0			
Vacuum7	-0.6	0			
Vacuum8	-7	0			
Vacuum9	-7.2	0			
Vacuum10	-7.3	0			
Vacuum11	-3.8	0			
Vacuum12	-4.4	0			
Vacuum13	-5	0			
Vacuum14	-7.7	0			
Vacuum15	-7.9	0			
Vacuum16	-8.1	0			
Vacuum17	-7.2	0			
Vacuum18	-7.6	0			
Vacuum19	-7.1	0			
Vacuum20	-6.3	0			
Vacuum21	-5.1	0			
Vacuum22	-9.4	0			
Vacuum23	-9.2	0			
Vacuum24	-9	0			
Vacuum25	-1.6	0			
Vacuum26	-2.7	0			
19	1.Fl	52.1	48.6	0.0	0.0
Car Wash Entrance	12.2	0			
Car Wash Exit	43.1	0			
Drive-Through Speaker1	32.8	28.8			
Drive-Through Speaker2	28.8	24.8			
HVAC1	46.4	43.4			
HVAC2	46.8	43.8			
HVAC3	44.4	41.4			
HVAC4	43.5	40.5			
Vacuum1	-2.5	0			
Vacuum2	-1.9	0			
Vacuum3	-1.3	0			
Vacuum4	0.2	0			
Vacuum5	1.4	0			
Vacuum6	3.5	0			
Vacuum7	-5.9	0			
Vacuum8	0.7	0			
Vacuum9	-1.2	0			
Vacuum10	-2.3	0			
Vacuum11	-3	0			
Vacuum12	-3.4	0			
Vacuum13	-3.8	0			
Vacuum14	-5.4	0			
Vacuum15	-5.7	0			
Vacuum16	4.7	0			
Vacuum17	-4.6	0			
Vacuum18	-4.5	0			
Vacuum19	-5.2	0			
Vacuum20	-4.6	0			
Vacuum21	-3.5	0			
Vacuum22	-2.3	0			
Vacuum23	-0.3	0			
Vacuum24	-7	0			
Vacuum25	3	0			
Vacuum26	1	0			
19	2.Fl	52.8	49.0	0.0	0.0
Car Wash Entrance	13.5	0			
Car Wash Exit	44.4	0			
Drive-Through Speaker1	33.9	29.9			
Drive-Through Speaker2	29.5	25.5			
HVAC1	47.1	44.1			
HVAC2	47.3	44.3			

HVAC3				44.6		41.6
HVAC4				43.7		40.7
Vacuum1				-2.9		0
Vacuum2				-2.4		0
Vacuum3				-1.8		0
Vacuum4				-0.2		0
Vacuum5				1.2		0
Vacuum6				3.4		0
Vacuum7				-6.4		0
Vacuum8				0.3		0
Vacuum9				-1.8		0
Vacuum10				-2.9		0
Vacuum11				-3.7		0
Vacuum12				-4.1		0
Vacuum13				-4.5		0
Vacuum14				-6.2		0
Vacuum15				-6.6		0
Vacuum16				4.6		0
Vacuum17				-5.2		0
Vacuum18				-5.1		0
Vacuum19				-6		0
Vacuum20				-5.3		0
Vacuum21				-4.2		0
Vacuum22				-3		0
Vacuum23				-0.8		0
Vacuum24				-7.5		0
Vacuum25				2.8		0
Vacuum26				0.7		0
19	3.Fl	52.8	49.1	0.0	0.0	
Car Wash Entrance				13.6		0
Car Wash Exit				44.5		0
Drive-Through Speaker1				35		31
Drive-Through Speaker2				30.2		26.2
HVAC1				47.1		44.1
HVAC2				47.4		44.4
HVAC3				44.7		41.7
HVAC4				43.6		40.6
Vacuum1				-2.5		0
Vacuum2				-1.9		0
Vacuum3				-1.3		0
Vacuum4				0.2		0
Vacuum5				1.6		0
Vacuum6				3.7		0
Vacuum7				-5.9		0
Vacuum8				0.5		0
Vacuum9				-1.6		0
Vacuum10				-2.7		0
Vacuum11				-3.4		0
Vacuum12				-3.8		0
Vacuum13				-4.2		0
Vacuum14				-6.2		0
Vacuum15				-6.5		0
Vacuum16				4.6		0
Vacuum17				-6.6		0
Vacuum18				-6.3		0
Vacuum19				-5.9		0
Vacuum20				-5.2		0
Vacuum21				-4.1		0
Vacuum22				-2.9		0
Vacuum23				-0.7		0
Vacuum24				-7.4		0
Vacuum25				3		0
Vacuum26				0.9		0
20	1.Fl	53.0	48.9	0.0	0.0	
Car Wash Entrance				15.8		0
Car Wash Exit				46.6		0
Drive-Through Speaker1				29.5		25.5
Drive-Through Speaker2				32.8		28.8
HVAC1				44.6		41.6
HVAC2				45.6		42.6
HVAC3				46.6		43.6
HVAC4				46.2		43.2
Vacuum1				16.1		0
Vacuum2				15.9		0
Vacuum3				15.7		0
Vacuum4				9.8		0
Vacuum5				3.1		0
Vacuum6				1.1		0
Vacuum7				0.1		0
Vacuum8				-0.3		0
Vacuum9				-2.4		0
Vacuum10				-2.8		0
Vacuum11				-2.9		0
Vacuum12				-3		0
Vacuum13				-3.1		0
Vacuum14				8.8		0
Vacuum15				8.4		0
Vacuum16				8.1		0
Vacuum17				-1.1		0
Vacuum18				-1.3		0
Vacuum19				-4.1		0
Vacuum20				-3.7		0
Vacuum21				-3		0
Vacuum22				-2.2		0
Vacuum23				-0.9		0
Vacuum24				1.7		0
Vacuum25				17.4		0
Vacuum26				17.6		0
20	2.Fl	53.8	49.4	0.0	0.0	
Car Wash Entrance				17.2		0
Car Wash Exit				47.8		0
Drive-Through Speaker1				30.2		26.2
Drive-Through Speaker2				33.9		29.9
HVAC1				45.1		42.1
HVAC2				46.1		43.1
HVAC3				47.2		44.2
HVAC4				46.7		43.7
Vacuum1				16.1		0
Vacuum2				15.9		0
Vacuum3				15.7		0
Vacuum4				9.7		0
Vacuum5				2.5		0
Vacuum6				0		0
Vacuum7				-1.4		0
Vacuum8				-0.6		0
Vacuum9				-2.8		0
Vacuum10				-3.2		0
Vacuum11				-3.4		0
Vacuum12				-3.5		0
Vacuum13				-3.6		0
Vacuum14				8.7		0
Vacuum15				8.3		0
Vacuum16				8		0
Vacuum17				-1.3		0
Vacuum18				-1.6		0
Vacuum19				-4.5		0
Vacuum20				-4		0
Vacuum21				-3.3		0
Vacuum22				-2.5		0

Vacuum23	-1.2				0
Vacuum24	1.4				0
Vacuum25	17.4				0
Vacuum26	17.6				0
20	3.Fl	53.8	49.5	0.0	0.0
Car Wash Entrance	17.2				0
Car Wash Exit	47.8				0
Drive-Through Speaker1	31				27
Drive-Through Speaker2	35				31
HVAC1	45				42
HVAC2	46.2				43.2
HVAC3	47.3				44.3
HVAC4	46.7				43.7
Vacuum1	16.1				0
Vacuum2	15.9				0
Vacuum3	15.7				0
Vacuum4	9.7				0
Vacuum5	2.6				0
Vacuum6	0.2				0
Vacuum7	-1.2				0
Vacuum8	-1.9				0
Vacuum9	-2.5				0
Vacuum10	-2.9				0
Vacuum11	-3				0
Vacuum12	-3.2				0
Vacuum13	-3.2				0
Vacuum14	8.7				0
Vacuum15	8.3				0
Vacuum16	-4.8				0
Vacuum17	-4.9				0
Vacuum18	-4.7				0
Vacuum19	-4.4				0
Vacuum20	-3.9				0
Vacuum21	-3.2				0
Vacuum22	-2.4				0
Vacuum23	-1.1				0
Vacuum24	1.5				0
Vacuum25	17.4				0
Vacuum26	17.6				0
21	1.Fl	53.2	48.1	0.0	0.0
Car Wash Entrance	21.2				0
Car Wash Exit	49				0
Drive-Through Speaker1	26.1				22.1
Drive-Through Speaker2	32.9				28.9
HVAC1	41.9				38.9
HVAC2	43.4				40.4
HVAC3	46.2				43.2
HVAC4	46.8				43.8
Vacuum1	13.5				0
Vacuum2	4.5				0
Vacuum3	0.7				0
Vacuum4	-0.4				0
Vacuum5	1.7				0
Vacuum6	1.8				0
Vacuum7	2				0
Vacuum8	2.2				0
Vacuum9	2.5				0
Vacuum10	2.8				0
Vacuum11	10.9				0
Vacuum12	11.1				0
Vacuum13	-0.6				0
Vacuum14	12.6				0
Vacuum15	12.1				0
Vacuum16	4.2				0
Vacuum17	3.7				0
Vacuum18	-2.7				0
Vacuum19	-2.6				0
Vacuum20	-2.5				0
Vacuum21	-2.2				0
Vacuum22	-1.8				0
Vacuum23	-1.3				0
Vacuum24	-0.3				0
Vacuum25	2.4				0
Vacuum26	20.1				0
21	2.Fl	53.8	48.7	0.0	0.0
Car Wash Entrance	22.6				0
Car Wash Exit	49.7				0
Drive-Through Speaker1	26.6				22.6
Drive-Through Speaker2	34.1				30.1
HVAC1	42.2				39.2
HVAC2	43.3				40.3
HVAC3	46.9				43.9
HVAC4	47.6				44.6
Vacuum1	13.6				0
Vacuum2	4.5				0
Vacuum3	0.6				0
Vacuum4	-0.5				0
Vacuum5	-1.1				0
Vacuum6	-1.5				0
Vacuum7	-1.8				0
Vacuum8	-2				0
Vacuum9	-2.1				0
Vacuum10	-2.1				0
Vacuum11	10.9				0
Vacuum12	11.1				0
Vacuum13	-0.8				0
Vacuum14	12.6				0
Vacuum15	12.1				0
Vacuum16	4.2				0
Vacuum17	-2.6				0
Vacuum18	-2.8				0
Vacuum19	-2.7				0
Vacuum20	-2.5				0
Vacuum21	-2.2				0
Vacuum22	-1.8				0
Vacuum23	-1.3				0
Vacuum24	-0.3				0
Vacuum25	2.5				0
Vacuum26	20.1				0
21	3.Fl	53.8	48.7	0.0	0.0
Car Wash Entrance	22.7				0
Car Wash Exit	49.7				0
Drive-Through Speaker1	27.1				23.1
Drive-Through Speaker2	35.2				31.2
HVAC1	42.2				39.2
HVAC2	43.6				40.6
HVAC3	46.9				43.9
HVAC4	47.6				44.6
Vacuum1	13.6				0
Vacuum2	4.6				0
Vacuum3	0.9				0
Vacuum4	-0.2				0
Vacuum5	-0.8				0
Vacuum6	-1.2				0
Vacuum7	-1.5				0
Vacuum8	-1.6				0
Vacuum9	-1.7				0
Vacuum10	-1.8				0
Vacuum11	-1.4				0

Vacuum12	-1.1	0
Vacuum13	-0.6	0
Vacuum14	2.4	0
Vacuum15	-0.1	0
Vacuum16	-2	0
Vacuum17	-2.5	0
Vacuum18	-2.7	0
Vacuum19	-2.6	0
Vacuum20	-2.4	0
Vacuum21	-2.1	0
Vacuum22	-1.7	0
Vacuum23	-1.2	0
Vacuum24	-0.3	0
Vacuum25	2.5	0
Vacuum26	20.1	0
22 1.Fl 50.6 47.0 0.0 0.0		
Car Wash Entrance	27.5	0
Car Wash Exit	41	0
Drive-Through Speaker1	24.3	20.3
Drive-Through Speaker2	30.9	26.9
HVAC1	40.5	37.5
HVAC2	41.8	38.8
HVAC3	45	42
HVAC4	46.2	43.2
Vacuum1	15.2	0
Vacuum2	-0.3	0
Vacuum3	-0.8	0
Vacuum4	-1	0
Vacuum5	-1.1	0
Vacuum6	4.4	0
Vacuum7	4.7	0
Vacuum8	5.1	0
Vacuum9	5.5	0
Vacuum10	6	0
Vacuum11	6.7	0
Vacuum12	13.5	0
Vacuum13	14.2	0
Vacuum14	20.9	0
Vacuum15	15.1	0
Vacuum16	8.1	0
Vacuum17	7.5	0
Vacuum18	-1.1	0
Vacuum19	-1.3	0
Vacuum20	-1.4	0
Vacuum21	-1.3	0
Vacuum22	-1.2	0
Vacuum23	-1	0
Vacuum24	-0.7	0
Vacuum25	0.3	0
Vacuum26	2.9	0
22 2.Fl 51.1 47.4 0.0 0.0		
Car Wash Entrance	28.9	0
Car Wash Exit	42.4	0
Drive-Through Speaker1	24.7	20.7
Drive-Through Speaker2	31.8	27.8
HVAC1	40.7	37.7
HVAC2	41.7	38.7
HVAC3	45.6	42.6
HVAC4	46.7	43.7
Vacuum1	15.2	0
Vacuum2	-0.2	0
Vacuum3	-0.6	0
Vacuum4	-0.9	0
Vacuum5	-1	0
Vacuum6	-1	0
Vacuum7	-1	0
Vacuum8	-0.9	0
Vacuum9	-0.7	0
Vacuum10	-0.3	0
Vacuum11	1.1	0
Vacuum12	13.5	0
Vacuum13	14.2	0
Vacuum14	20.9	0
Vacuum15	5.7	0
Vacuum16	1	0
Vacuum17	-0.4	0
Vacuum18	-1.1	0
Vacuum19	-1.3	0
Vacuum20	-1.3	0
Vacuum21	-1.2	0
Vacuum22	-1.1	0
Vacuum23	-1	0
Vacuum24	-0.6	0
Vacuum25	0.4	0
Vacuum26	2.9	0
22 3.Fl 51.1 47.4 0.0 0.0		
Car Wash Entrance	28.9	0
Car Wash Exit	42.4	0
Drive-Through Speaker1	25.2	21.2
Drive-Through Speaker2	32.7	28.7
HVAC1	40.7	37.7
HVAC2	42	39
HVAC3	45.4	42.4
HVAC4	46.6	43.6
Vacuum1	15.2	0
Vacuum2	0.2	0
Vacuum3	-0.3	0
Vacuum4	-0.5	0
Vacuum5	-0.6	0
Vacuum6	-0.7	0
Vacuum7	-0.7	0
Vacuum8	-0.6	0
Vacuum9	-0.4	0
Vacuum10	0	0
Vacuum11	1.3	0
Vacuum12	2.8	0
Vacuum13	6.3	0
Vacuum14	19.7	0
Vacuum15	5.7	0
Vacuum16	1.1	0
Vacuum17	-0.3	0
Vacuum18	-1	0
Vacuum19	-1.2	0
Vacuum20	-1.2	0
Vacuum21	-1.1	0
Vacuum22	-1	0
Vacuum23	-0.9	0
Vacuum24	-0.5	0
Vacuum25	0.5	0
Vacuum26	3	0
23 1.Fl 49.2 45.5 0.0 0.0		
Car Wash Entrance	40.2	0
Car Wash Exit	31.7	0
Drive-Through Speaker1	22.8	18.8
Drive-Through Speaker2	28.4	24.4
HVAC1	39.2	36.2
HVAC2	40.1	37.1
HVAC3	43.2	40.2
HVAC4	44.8	41.8

Vacuum1	14				0
Vacuum2	-0.1				0
Vacuum3	10.9				0
Vacuum4	-0.1				0
Vacuum5	12.9				0
Vacuum6	12.7				0
Vacuum7	0.4				0
Vacuum8	0.9				0
Vacuum9	2.6				0
Vacuum10	7.1				0
Vacuum11	19.7				0
Vacuum12	19.7				0
Vacuum13	20.8				0
Vacuum14	22.8				0
Vacuum15	21.4				0
Vacuum16	16.7				0
Vacuum17	2.9				0
Vacuum18	0.4				0
Vacuum19	-0.3				0
Vacuum20	-0.7				0
Vacuum21	-1.1				0
Vacuum22	-1.3				0
Vacuum23	-1.4				0
Vacuum24	-0.9				0
Vacuum25	14.8				0
Vacuum26	15.2				0
23	2.Fl	49.5	45.6	0.0	0.0
Car Wash Entrance	41				0
Car Wash Exit	33.6				0
Drive-Through Speaker1	23.1				19.1
Drive-Through Speaker2	29.1				25.1
HVAC1	39.3				36.3
HVAC2	40.2				37.2
HVAC3	43.6				40.6
HVAC4	44.7				41.7
Vacuum1	14				0
Vacuum2	0.3				0
Vacuum3	10.9				0
Vacuum4	0.4				0
Vacuum5	13				0
Vacuum6	12.7				0
Vacuum7	0.6				0
Vacuum8	1				0
Vacuum9	2.6				0
Vacuum10	7.2				0
Vacuum11	19.4				0
Vacuum12	19.4				0
Vacuum13	19.3				0
Vacuum14	21.4				0
Vacuum15	21.4				0
Vacuum16	16.7				0
Vacuum17	2.9				0
Vacuum18	0.5				0
Vacuum19	-0.3				0
Vacuum20	-0.7				0
Vacuum21	-1				0
Vacuum22	-1.2				0
Vacuum23	-1.3				0
Vacuum24	-0.8				0
Vacuum25	14.9				0
Vacuum26	15.2				0
23	3.Fl	49.6	45.8	0.0	0.0
Car Wash Entrance	41				0
Car Wash Exit	33.7				0
Drive-Through Speaker1	23.4				19.4
Drive-Through Speaker2	29.7				25.7
HVAC1	39.2				36.2
HVAC2	40.5				37.5
HVAC3	43.6				40.6
HVAC4	45				42
Vacuum1	14				0
Vacuum2	1				0
Vacuum3	10.9				0
Vacuum4	1.1				0
Vacuum5	13				0
Vacuum6	12.8				0
Vacuum7	1				0
Vacuum8	1.4				0
Vacuum9	2.9				0
Vacuum10	7.3				0
Vacuum11	19.4				0
Vacuum12	19.4				0
Vacuum13	19.3				0
Vacuum14	21.3				0
Vacuum15	21.4				0
Vacuum16	16.7				0
Vacuum17	3				0
Vacuum18	0.6				0
Vacuum19	-0.2				0
Vacuum20	-0.6				0
Vacuum21	-0.9				0
Vacuum22	-1.1				0
Vacuum23	-1.2				0
Vacuum24	-0.8				0
Vacuum25	14.9				0
Vacuum26	15.2				0
24	1.Fl	48.8	44.5	0.0	0.0
Car Wash Entrance	42.5				0
Car Wash Exit	28.4				0
Drive-Through Speaker1	21.8				17.8
Drive-Through Speaker2	26.9				22.9
HVAC1	38.4				35.4
HVAC2	39.2				36.2
HVAC3	42.1				39.1
HVAC4	43.8				40.8
Vacuum1	13.5				0
Vacuum2	12.6				0
Vacuum3	12.3				0
Vacuum4	12.1				0
Vacuum5	9.1				0
Vacuum6	8.9				0
Vacuum7	11.5				0
Vacuum8	4.4				0
Vacuum9	19.1				0
Vacuum10	19.2				0
Vacuum11	19.4				0
Vacuum12	19.4				0
Vacuum13	19.5				0
Vacuum14	21.5				0
Vacuum15	23.6				0
Vacuum16	21.2				0
Vacuum17	6.2				0
Vacuum18	1.2				0
Vacuum19	-0.2				0
Vacuum20	-0.9				0
Vacuum21	-1.5				0
Vacuum22	-1.4				0
Vacuum23	-1.5				0
Vacuum24	-0.8				0

Vacuum25				13.3		0
Vacuum26				13.6		0
24	2.Fl	49.0	44.5	0.0	0.0	
Car Wash Entrance				43.3		0
Car Wash Exit				30.3		0
Drive-Through Speaker1				22.2		18.2
Drive-Through Speaker2				27.5		23.5
HVAC1				38.4		35.4
HVAC2				39.4		36.4
HVAC3				42.4		39.4
HVAC4				43.5		40.5
Vacuum1				13.5		0
Vacuum2				12.6		0
Vacuum3				12.4		0
Vacuum4				12.1		0
Vacuum5				9.1		0
Vacuum6				8.9		0
Vacuum7				11.6		0
Vacuum8				4.5		0
Vacuum9				19.1		0
Vacuum10				19.3		0
Vacuum11				19.4		0
Vacuum12				19.4		0
Vacuum13				19.5		0
Vacuum14				21.5		0
Vacuum15				23.6		0
Vacuum16				21.3		0
Vacuum17				6.3		0
Vacuum18				1.3		0
Vacuum19				-0.1		0
Vacuum20				-0.8		0
Vacuum21				-1.4		0
Vacuum22				-1.4		0
Vacuum23				-1.5		0
Vacuum24				-0.8		0
Vacuum25				13.3		0
Vacuum26				13.6		0
24	3.Fl	49.1	44.7	0.0	0.0	
Car Wash Entrance				43.3		0
Car Wash Exit				30.4		0
Drive-Through Speaker1				22.5		18.5
Drive-Through Speaker2				28		24
HVAC1				38.4		35.4
HVAC2				39.6		36.6
HVAC3				42.3		39.3
HVAC4				43.9		40.9
Vacuum1				13.5		0
Vacuum2				12.7		0
Vacuum3				12.4		0
Vacuum4				12.2		0
Vacuum5				9.2		0
Vacuum6				9		0
Vacuum7				11.6		0
Vacuum8				4.7		0
Vacuum9				19.1		0
Vacuum10				19.3		0
Vacuum11				19.4		0
Vacuum12				19.4		0
Vacuum13				19.5		0
Vacuum14				21.5		0
Vacuum15				23.6		0
Vacuum16				21.2		0
Vacuum17				6.3		0
Vacuum18				1.4		0
Vacuum19				0		0
Vacuum20				-0.7		0
Vacuum21				-1.3		0
Vacuum22				-1.3		0
Vacuum23				-1.4		0
Vacuum24				-0.7		0
Vacuum25				13.3		0
Vacuum26				13.6		0