

NOISE IMPACT ANALYSIS

**W.M. Lyles
26501 Madison Avenue
Murrieta, California 92562**

Prepared For

Youngren Construction
Attention: Scott Youngren
443 East Alvarado Street
Fallbrook, California 92028
Phone: 760-728-9874

Prepared By

Eilar Associates, Inc.
Acoustical & Environmental Consulting
210 South Juniper Street, Suite 100
Escondido, California 92025
www.eilarassociates.com
Phone: 760-738-5570
Fax: 760-738-5227

Job # S200508

June 23, 2020

TABLE OF CONTENTS

	<u>Page</u>
1.0 EXECUTIVE SUMMARY	1
2.0 INTRODUCTION	1
2.1 Project Description	
2.2 Project Location	
2.3 Applicable Noise Regulations	
3.0 ENVIRONMENTAL SETTING	3
3.1 Existing Noise Environment	
3.2 Future Noise Environment	
4.0 METHODOLOGY AND EQUIPMENT	8
4.1 Methodology	
4.2 Measurement Equipment	
5.0 NOISE IMPACTS	9
5.1 Permanent Project-Related Noise Impacts	
5.2 Temporary Construction Noise Impacts	
5.3 CEQA Significance Determination	
6.0 CONCLUSION	15
7.0 CERTIFICATION	16
8.0 REFERENCES	17

FIGURES

1. Vicinity Map
2. Assessor's Parcel Map
3. Satellite Aerial Photograph Showing Noise Measurement Locations
4. Topographic Map
5. Satellite Aerial Photograph Showing Equipment Noise Contours and Receiver Locations – Daytime Scenario
6. Satellite Aerial Photograph Showing Equipment Noise Contours and Receiver Locations – Nighttime Scenario
7. Satellite Aerial Photograph Showing Construction Noise Contours and Receiver Locations – Utilities and Grading
8. Satellite Aerial Photograph Showing Construction Noise Contours and Receiver Locations – Foundation
9. Satellite Aerial Photograph Showing Construction Noise Contours and Receiver Locations – Paving
10. Satellite Aerial Photograph Showing Construction Noise Contours and Receiver Locations – Framing

APPENDICES

- A. Project Plans
- B. Applicable Noise Regulations
- C. Manufacturer Data Sheets
- D. Cadna Analysis Data and Results

1.0 EXECUTIVE SUMMARY

The proposed project, known as W.M. Lyles, consists of the construction of an 11,706-square-foot, two-story office building and a 4,980-square-foot warehouse on a 5.83-acre lot. The project site is located at the southwest corner of Madison Avenue and Golden Gate Circle in the City of Murrieta, California. The address is given as 26501 Madison Avenue.

Noise from the anticipated operational equipment and activities on site has been calculated to determine impacts at off-site receivers, including the biologically sensitive habitat to the east of the project site. Calculations show that noise levels from project operations will be in compliance with the City of Murrieta noise regulations for both daytime and nighttime hours found within the Municipal Code with the project design features detailed in Section 5.1.1. Project-generated traffic noise is also expected to be less than significant.

Noise levels from temporary construction activities associated with this project are expected to comply with the applicable City of Murrieta construction noise limits at all surrounding property lines, with activity limited to the daytime hours of 7 a.m. to 8 p.m. during all stages of construction. Construction is prohibited between the hours of 8 p.m. and 7 a.m. and on Sundays or legal holidays. Though it is not required by regulations, the general good practice construction noise control methods listed herein should be followed, as a courtesy to surrounding properties.

The proposed project is not expected to result in any potentially significant noise impacts by the standards of the California Environmental Quality Act (CEQA). Noise impacts are summarized in Section 5.3.

2.0 INTRODUCTION

This acoustical analysis report is submitted to satisfy the noise requirements of the City of Murrieta. Its purpose is to assess noise impacts from potential project-related noise sources, such as on-site equipment operation and activity, project-generated traffic, and temporary construction noise. This analysis aims to determine if additional project design features are necessary and feasible to reduce these impacts to comply with the applicable noise regulations of the City of Murrieta Noise Element to the General Plan and Municipal Code and the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP). Potential impacts will also be assessed for significance per the California Environmental Quality Act (CEQA).

All noise level or sound level values presented herein are expressed in terms of decibels, with A-weighting to approximate the hearing sensitivity of humans. Time-averaged noise levels are expressed by the symbol L_{EQ} , for a specified duration. The Community Noise Equivalent Level (CNEL) is a calculated 24-hour weighted average, where sound levels during evening hours of 7 p.m. to 10 p.m. have an added 5 dB weighting, and sound levels during nighttime hours of 10 p.m. to 7 a.m. have an added 10 dB weighting. This is similar to the Day-Night sound level, L_{DN} , which is a 24-hour average with an added 10 dB weighting on the same nighttime hours but no added weighting on the evening hours.

Sound pressure is the actual noise experienced by a human or registered by a sound level instrument. When sound pressure is used to describe a noise source, the distance from the noise source must be specified in order to provide complete information. Sound power, on the other

hand, is a specialized analytical metric to provide information without the distance requirement, but it may be used to calculate the sound pressure at any desired distance.

2.1 Project Description

The proposed project, known as W.M. Lyles, consists of the construction of an 11,706-square-foot, two-story office building and a 4,980-square-foot warehouse on a 5.83-acre lot. The proposed hours of operation are 7 a.m. to 5 p.m. for the office building and 7 a.m. to 4 p.m. for the warehouse. The warehouse will act as a transfer yard, with transfers from truck to truck or unloading of equipment or material at the site, and will potentially have a forklift operating in the yard. For additional project details, please refer to the project plans provided in Appendix A.

The subject property is zoned Business Park, BP. All adjacent properties are also zoned BP. Additionally, the project site is located within the Southwest Area Plan of the Western Riverside County MSHCP. The eastern portion of the parcel has been delineated in order to protect potential biologically sensitive habitats.

2.2 Project Location

The project site is located at the southwest corner Madison Avenue and Golden Gate Circle in the City of Murrieta, California. The address is given as 26501 Madison Avenue. The Assessor's Parcel Number (APN) is 910-230-003. The site is currently vacant. For a graphical representation of the site, please refer to the Vicinity Map, Assessor's Parcel Map, Satellite Aerial Photograph, and Topographic Map, provided as Figures 1 through 4, respectively.

2.3 Applicable Noise Regulations

This acoustical report is submitted to satisfy the acoustical requirements of the City of Murrieta Noise Element to the General Plan and Municipal Code, and the Western Riverside County MSHCP.

The City of Murrieta Municipal Code, Section 16.30.090, specifies noise limits based on the land use of the properties in question. Noise levels have been evaluated at the nearest noise-sensitive receivers beyond adjacent roadways and sidewalks. The Municipal Code states that noise standards for commercial properties are 60 dBA and 65 dBA for nighttime and daytime hours, respectively. In accordance with the MSHCP Implementation Structure, residential noise limits have been applied at the on-site biologically sensitive habitat. The Municipal Code states that noise standards for residential properties are 45 dBA and 50 dBA for nighttime and daytime hours, respectively.

Additionally, the City of Murrieta Noise Element to the General Plan states that construction activity is prohibited between the hours of 8 p.m. and 7 a.m. and on Sundays or legal holidays. During permissible hours of operation, noise levels from construction activity should be limited to 85 dBA at commercial properties and 75 dBA at residential receivers.

Pertinent sections of the City of Murrieta Noise Element to the General Plan and Municipal Code, and the MSCHP Implementation Structure are provided as Appendix B.

3.0 ENVIRONMENTAL SETTING

3.1 Existing Noise Environment

The primary noise sources in the vicinity of the project site includes automobile and truck traffic noise from Madison Avenue, Jefferson Avenue, Elm Street, and Interstate 15. No other noise source is considered significant.

3.1.1 Roadway Traffic Noise

Current traffic volumes are given based on traffic counts by the City of Murrieta General Plan Update 2008 Average Daily Traffic Volumes.

Madison Avenue is a two-lane Minor Arterial running generally east-west to the north of the project site. The posted speed limit is 35 mph. Traffic volumes have not been provided for sections of Madison Avenue nearest to the project site; however, based on surrounding land uses and on-site observations, it is estimated that Madison Avenue currently carries a traffic volume of approximately 1,000 Average Daily Trips (ADT) to the west of Elm Street, and 600 ADT to the east of Elm Street.

Jefferson Avenue is a four-lane Minor Arterial running generally east-west to the south of the project site. The posted speed limit is 50 mph. In the vicinity of the project site, Jefferson Avenue currently carries a traffic volume of approximately 29,000 ADT.

Elm Street is a two-lane Major Collector running generally north-south to the west of the project site. There is no posted speed limit on Elm Street. However, based on neighboring and surrounding land use, roadway classification, professional experience, and on-site observations, a speed limit of 35 mph was assumed for Elm Street. In the vicinity of the project site, Elm Street currently carries a traffic volume of approximately 2,500 ADT.

Interstate 15 (I-15) is an eight-lane freeway running generally north-south to the north of the project site. The posted speed limit is 70 mph. In the vicinity of the project site, I-15 currently carries a traffic volume of approximately 186,000 ADT.

Current and future truck percentages are given for Madison Avenue, Jefferson Avenue, and Elm Street based on the required vehicle mixes provided by the County of Riverside. Per the County of Riverside truck percentages, Madison Avenue, Jefferson Avenue, and Elm Street are expected to have a truck percentage mix of 3.0% medium and 5.0% heavy trucks.

Current and future truck percentages for Interstate 15 are given based on Caltrans 2016 Truck Traffic counts. A truck percentage mix of 3.57% medium and 3.63% heavy trucks was used for I-15.

3.1.2 Measured Noise Level

An on-site inspection and traffic noise measurement were made on the afternoon of May 19, 2020. The noise measurement was made using the methodology described in Section 4.1 at a location approximately 14 feet from the Golden Gate Circle centerline and 95 feet from the Madison Avenue centerline. The microphone was placed at approximately five feet above the road grade. Traffic volumes for Golden Gate Circle and Madison Avenue were recorded for automobiles, medium-size trucks, and large trucks during the measurement period. After a continuous 10-minute sound level

measurement, no changes in the L_{EQ} were observable and results were recorded. The measured noise level and related weather conditions are found in Table 1, and the noise measurement location is shown in Figure 3.

Table 1. On-Site Noise Measurement Conditions and Results	
Date	Tuesday, May 19, 2020
Time	2:15 p.m. – 2:25 p.m.
Conditions	Partly cloudy skies, 12 mph wind, temperature in the low 70s with moderate humidity
Measured Noise Level	54.8 dBA L_{EQ}

In addition, long-term noise monitoring was also performed to determine the approximate ambient noise level in the vicinity of the project site. The meter was located near the edge of the riparian habitat on the eastern portion of the project site. Results of this noise monitoring are shown in Table 2, and the noise monitoring location is shown in Figure 3.

Table 2. Long-Term Measured Noise Levels near North Property Line		
Date	Hour	Hourly Noise Level (dBA L_{EQ})
May 18, 2020	1 p.m. – 2 p.m.	53.7
	2 p.m. – 3 p.m.	52.9
	3 p.m. – 4 p.m.	50.9
	4 p.m. – 5 p.m.	51.0
	5 p.m. – 6 p.m.	49.9
	6 p.m. – 7 p.m.	49.6
	7 p.m. – 8 p.m.	49.2
	8 p.m. – 9 p.m.	43.9
	9 p.m. – 10 p.m.	42.1
	10 p.m. – 11 p.m.	45.7
	11 p.m. – 12 a.m.	42.1
May 19, 2020	12 a.m. – 1 a.m.	41.4
	1 a.m. – 2 a.m.	41.9
	2 a.m. – 3 a.m.	41.6
	3 a.m. – 4 a.m.	43.1
	4 a.m. – 5 a.m.	48.1
	5 a.m. – 6 a.m.	53.7
	6 a.m. – 7 a.m.	51.9
	7 a.m. – 8 a.m.	50.4
	8 a.m. – 9 a.m.	51.4
	9 a.m. – 10 a.m.	49.4
	10 a.m. – 11 a.m.	53.2
	11 a.m. – 12 p.m.	51.5
	12 p.m. – 1 p.m.	50.7

As shown in Table 2, the minimum hourly ambient noise level in this location was found to be 41.4 dBA between the hours of 12 a.m. and 1 a.m. The maximum noise level was 53.7 dBA which occurred between the hours of 1 p.m. and 2 p.m. The average hourly nighttime (10 p.m. to 7 a.m.) ambient noise level was 48.0 dBA.

3.1.3 Calculated Noise Level

Noise levels were calculated for the site using the methodology described in Section 4.1 for the location, conditions, and traffic volumes counted during the noise measurements. The calculated noise levels (L_{EQ}) were compared with the measured on-site noise level to determine if adjustments or corrections (calibration) should be applied to the traffic noise prediction model. Adjustments are intended to account for site-specific variances in overall reflectivity or absorption, which may not be accurately represented by the default settings in the model.

The measured noise level of 54.8 dBA L_{EQ} at 14 feet from the Golden Gate Circle centerline and 95 feet from the Madison Avenue centerline was compared to the calculated (modeled) noise level of 57.7 dBA L_{EQ} , for the same weather conditions and traffic flow. According to the Federal Highway Administration's Highway Traffic Noise: Analysis and Abatement Guide (see reference), a traffic noise model is considered validated if the measured and calculated noise impacts differ by three decibels or fewer. No adjustment was deemed necessary to model future noise levels for this noise model as the difference between the measured and calculated levels was found to be less than three decibels. The traffic noise model is assumed to be representative of actual traffic noise that is experienced on site. This information is presented in Table 3.

Table 3. Calculated versus Measured Traffic Noise Data				
Calibration Receiver Position	Calculated	Measured	Difference	Correction
14 feet from Golden Gate CL, 95 feet from Madison Ave CL	57.7 dBA L_{EQ}	54.8 dBA L_{EQ}	2.9 dB	None applied

3.2 Future Noise Environment

3.2.1 Operational Noise Impacts

The primary sources of noise generated by the proposed project are anticipated to be the proposed truck trips in and out of the property, outdoor forklift operation, and HVAC equipment.

The project will include multiple vehicles on site around the warehouse building. Noise levels for typical equipment were provided by DEFRA as octave band noise levels. Noise levels are shown in Table 4. It is assumed that the forklift will be operational for 24 minutes out of an hour (40% duty cycle) and four delivery truck trips will be made per hour during daytime hours.

Table 4. Sound Power Level of Proposed Vehicular Equipment									
Source	Sound Power Level at Octave Band Frequency (dB)								Total (dBA)
	63	125	250	500	1K	2K	4K	8K	
Forklift	114.6	108.6	98.6	96.6	93.6	91.6	85.6	76.6	100.1
Delivery Truck	111.8	111.8	100.8	102.8	98.8	96.8	95.8	87.8	105.3

Additionally, noise measurements made by Eilar Associates of a truck backup alarm were incorporated into calculations (76.0 dBA at 50 feet).

It is anticipated that HVAC equipment will consist of both mini-split systems and packaged rooftop units on the buildings. HVAC equipment is assumed to be operational for 30 minutes out of an hour and potentially during nighttime hours. Typical HVAC units were selected for both the office and warehouse buildings. The typical heat pump for the mini-split systems selected for both buildings is manufactured by Mitsubishi Electric. Noise levels for this equipment were provided by the manufacturer as broadband, A-weighted noise levels of 60 dBA at one meter from the equipment. No octave band data has been given for the HVAC unit, and therefore, octave band noise levels of a similar HVAC unit have been used to estimate the spectral content of this unit. Noise levels are shown in Table 5, and manufacturer data sheets are provided in Appendix C.

Table 5. Sound Power Levels of Mitsubishi PURY-P120ZKMU-A (Typical 10-ton Unit)									
Source	Sound Pressure at Octave Band Frequency (dBA)								Total (dBA)
	63	125	250	500	1K	2K	4K	8K	
PURY-P120ZKMU-A	42.6	51.2	56.2	55.1	55.3	52.0	45.3	40.2	60.0

The HVAC units used in calculations were 6-ton package rooftop units, manufactured by Carrier. Sound data was provided by Carrier for these units and is shown in Table 6. Manufacturer data sheets have been provided as Appendix C.

Table 6. Sound Power Levels of Carrier 48HC07 Packaged Rooftop Units (Typical 6-ton Unit)									
Source	Sound Power Level at Octave Band Frequency (dB)								Total (dBA)
	63	125	250	500	1K	2K	4K	8K	
48HC07	90.1	82.6	81.0	79.4	77.0	73.0	70.4	66.7	82

Noise levels of mechanical equipment and operational activity have been calculated for the project site using the above information. Results of this analysis are provided in Section 5.1.1.

3.2.2 Project-Generated Traffic

A trip generation letter was prepared by Darnell and Associates, Inc. and shows traffic volumes generated by the proposed project. According to the letter, the project is expected to generate approximately 141 ADT. The impacts of project-generated traffic noise have been assessed using

these trip generation values and the existing traffic volumes for surrounding roadways. Project traffic volumes and the analysis of project-generated traffic noise is provided in Section 5.1.2.

3.2.3 Temporary Construction Equipment

In order to evaluate anticipated temporary construction noise impacts, general information from the project applicant and typical assumptions have been made regarding stages of construction and equipment to be used. The equipment listed in Table 7 is typical of what is expected to be used on site based on information provided and professional experience. Unless otherwise noted, all noise levels have been provided by the UK Department for Environment, Food and Rural Affairs (DEFRA) (see reference). Duty cycle information was taken from the Federal Highway Administration.

Table 7. Anticipated Construction Stages and Equipment Noise Levels			
Construction Stage	Equipment	Duty Cycle (%)	Noise Level, at 50 feet (dBA)
Utilities and Grading	Excavator ¹	40	75
	Backhoe ¹	40	74
	Water Truck ¹	40	77
	Grader ¹	40	70
Foundation	Concrete Mixer Truck	40	76
	Concrete Pump Truck	20	74
Paving	Paver	50	71
	Roller ¹	20	74
	Dump Truck	40	75
Framing	Air Compressor	40	61
	Telescopic Forklift ¹	40	74

¹Source: Noise measurements made by Eilar Associates on 3/25/2010 for Brutoco Engineering & Construction, Inc. for the Orange Line Extension Project, Metro Contract #C0943, City of Los Angeles.

These noise levels have been incorporated into the temporary construction noise analysis for the site, provided in Section 5.2.

4.0 METHODOLOGY AND EQUIPMENT

4.1 Methodology

4.1.1 Field Measurement

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

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

4.1.2 Roadway Noise Calculation

The Traffic Noise Model (TNM) calculation protocol in Cadna Version 2019 (based on the methodology used in TNM Version 2.5, released in February 2004 by the U.S. Department of Transportation) was used for all traffic modeling in the preparation of this report. Using the TNM protocol, the CNEL is calculated as 0.092 times the ADT for surrounding roadways, based on the studies made by Wyle Laboratories (see reference). CNEL is calculated for desired receptor locations using road alignment, elevations, lane configurations, projected traffic volumes, estimated truck mixes, and vehicle speeds. Noise attenuation methods may be analyzed, tested, and planned with Cadna, as required.

In order to determine the estimated traffic volumes of roadways during the traffic noise measurement made on site for model calibration, the approximate percentage of the Average Daily Trips (ADT) value for the time period in which the measurement is made is incorporated into the traffic model. These percentages have been established in a study performed by Katz-Okitsu and Associates, Traffic Engineers (see reference). For purposes of calibrating the Cadna TNM, 7.4% of the ADT values for the current environment were used in calculations (for roadways that were not manually counted) to account for traffic between the hours of 2 p.m. and 3 p.m. in the vicinity of the project site.

4.1.3 Cadna Noise Modeling Software

Modeling of the outdoor noise environment is accomplished using Cadna Version 2019, which is a model-based computer program developed by DataKustik for predicting noise impacts in a wide variety of conditions. Cadna (Computer Aided Noise Abatement) assists in the calculation, presentation, assessment, and alleviation of noise exposure. It allows for the input of project information such as noise source data, barriers, structures, and topography to create a detailed model and uses the most up-to-date calculation standards to predict outdoor noise impacts. Noise standards used by Cadna that are particularly relevant to this analysis include ISO 9613

(Attenuation of sound during propagation outdoors). Cadna provides results that are in line with basic acoustical calculations for distance attenuation and barrier insertion loss.

4.1.4 Formulas and Calculations

Project-Generated Traffic Noise Impacts

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

$$\Delta = 10 \log(V2/V1)$$

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

4.2 Measurement Equipment

The following equipment was used at the site to measure existing noise levels:

- Larson Davis Model LxT Type 1 Integrating Sound Level Meter, Serial #4084
- Larson Davis Model CA250 Type 1 Calibrator, Serial #2106
- Larson Davis Model 720, Type 2 Sound Level Meter, Serial #0311
- Larson Davis Model CA150, Type 2 Calibrator, Serial #2056

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

5.0 NOISE IMPACTS

5.1 Permanent Project-Related Noise Impacts

5.1.1 Operational Noise

Noise levels from the proposed operational activity and HVAC units were calculated in Cadna at the nearest properties and sensitive receivers using data and assumptions presented in Section 3.2.1. Delivery and yard activity and HVAC equipment were evaluated for the daytime scenario, and HVAC equipment only was calculated for the nighttime scenario. Noise limits have been applied as detailed in Section 2.3. Calculations consider the topography of the surrounding area as well as shielding that would be provided by the proposed on-site structures, with the exception of any parapet walls. For this reason, the analysis is considered to represent a conservative estimate of noise impacts at off-site and sensitive receivers.

Tables 8 and 9 show the site activity and mechanical noise impacts at surrounding receivers during daytime and nighttime hours, respectively. Calculated noise impacts are shown at the boundary of the biologically sensitive habitat to the east and at neighboring commercial property lines to the south and west. All receivers have been calculated at a height of five feet above their respective grade. Noise source and receiver locations are shown in Figures 5 and 6. Additional information is provided in Appendix D: Cadna Analysis Data and Results.

Table 8. Project Operational Noise Impacts – Daytime (Site Activity + HVAC)			
Receiver	Description	Noise Limit (dBA)	Noise Level (dBA)
R1	Sensitive Habitat (East)	50	56
R2	South Property Line 1	65	54
R3	South Property Line 2	65	55
R4	South Property Line 3	65	51
R5	South Property Line 4	65	42
R6	West Property Line	65	52

Table 9. Project Operational Noise Impacts – Nighttime (HVAC Only)			
Receiver	Description	Noise Limit (dBA)	Noise Level (dBA)
R1	Sensitive Habitat (East)	45	29
R2	South Property Line 1	60	26
R3	South Property Line 2	60	25
R4	South Property Line 3	60	26
R5	South Property Line 4	60	23
R6	West Property Line	60	31

As shown above, noise levels at the biologically sensitive habitat are anticipated to exceed the applicable daytime noise limits of the City of Murrieta with the project as currently designed. For this reason, additional project design features are deemed necessary to reduce noise impacts from on-site vehicular and mechanical equipment.

An additional project design feature is required in the form of a seven-foot high sound attenuation barrier along the eastern portion of the site in place of the proposed wrought-iron fence. Tables 10 and 11 show the site-activity and mechanical noise impacts at surrounding receivers with a seven-foot high sound attenuation barrier in place.

Table 10. Project Operational Noise Impacts with Barrier – Daytime (Site Activity + HVAC)			
Receiver	Description	Noise Limit (dBA)	Noise Level (dBA)
R1	Sensitive Habitat (East)	50	49
R2	South Property Line 1	65	54
R3	South Property Line 2	65	55
R4	South Property Line 3	65	51
R5	South Property Line 4	65	42
R6	West Property Line	65	52

Table 11. Project Operational Noise Impacts with Barrier – Nighttime (HVAC Only)			
Receiver	Description	Noise Limit (dBA)	Noise Level (dBA)
R1	Sensitive Habitat (East)	45	23
R2	South Property Line 1	60	26
R3	South Property Line 2	60	25
R4	South Property Line 3	60	26
R5	South Property Line 4	60	23
R6	West Property Line	60	31

As shown above, noise levels at all receivers are anticipated to comply with the applicable daytime and nighttime noise limits of the City of Murrieta with additional project design features in the form of a seven-foot high sound attenuation barrier in place. For a graphic showing noise source, receiver, and barrier locations, please refer to Figures 5 and 6.

A sound attenuation wall should be solid and constructed of masonry, wood, plastic, glass, fiberglass, steel, or a combination of those materials with no cracks or gaps through or below the wall. Any seams or cracks must be filled or caulked as much as possible. If wood is used, it can be tongue and groove and must be at least 7/8-inch thick or have a surface density of at least 3-1/2 pounds per square foot. Where architectural or aesthetic factors allow, glass or clear plastic may be used on the upper portion of the wall assembly if it is desirable to preserve a view. A solid railing wall made of glass, plexiglass, or any other material detailed above should be sufficient in this location, provided there are no gaps between panels.

5.1.2 Project-Generated Traffic Noise

An analysis of the potential change in traffic noise levels to the surrounding area has been evaluated based on the Trip Generation Letter performed by Darnell and Associates, Inc. The project's impacts have been evaluated to determine whether a direct impact will result. A significant direct impact occurs when project traffic combines with existing traffic and causes a doubling of

sound energy, which is an increase of 3 dB. Direct impacts are assessed by comparing existing traffic volumes to existing plus project traffic volumes using the calculation methodology shown in Section 4.1.4.

As the project is anticipated to add 141 ADT to the existing environment, this traffic volume has been added to each of the closest surrounding roadways that would potentially carry this additional traffic. The anticipated increase in noise levels as a result of project-generated traffic is shown for each roadway in Table 12.

Table 12. Anticipated Traffic Noise Increases with Project-Generated Traffic			
Road	Traffic Volume (ADT)		Noise Level Increase (dB)
	Existing	Project	
I-15	186,000	141	0.0
Madison Avenue, West of Elm	1,000	141	0.6
Madison Avenue, East of Elm	600	141	0.9
Jefferson Avenue	29,000	141	0.0
Elm Street	2,500	141	0.2

As shown in Table 12, no direct impacts are anticipated to result from the additional project-generated traffic on surrounding roadways, as noise level increases would be less than three decibels.

A secondary analysis was performed for nearby residential properties adjacent to Madison Avenue to determine whether project-generated traffic would cause noise impacts to exceed those considered acceptable within the City of Murrieta Noise Element to the General Plan. According to the Noise Element, traffic noise impacts are considered to be “normally acceptable” within the range of 50-60 CNEL. Existing traffic noise levels were evaluated at the edge of the right-of-way along the residential property at the southeast corner of Madison Avenue and Elm Street and compared to traffic noise levels anticipated with the increase in traffic volumes on surrounding roadways. Table 13 below shows the results of these calculations.

Table 13. Anticipated Traffic Noise Increases with Project-Generated Traffic at Nearby Receivers				
Receiver	Description	Existing Noise Level (CNEL)	Existing + Project Noise Level (CNEL)	Noise Level Increase (dB)
Residential	Madison Ave ROW	57.0	57.7	0.7

As shown in Table 13, traffic noise impacts at the adjacent residential receiver remain in the “normally acceptable” range of noise levels per the City of Murrieta Noise Element to the General Plan with and without the addition of project-generated traffic. For these reasons, project-generated traffic noise impacts are considered to be less than significant.

5.2 Temporary Construction Noise Impacts

According to the City of Murrieta Municipal Code, construction activity is prohibited between the hours of 8 p.m. and 7 a.m. and on Sundays or legal holidays. During permissible hours of operation, noise levels from construction activity should be limited to no greater than 75 dBA at residential properties and 85 dBA at commercial properties, where feasible. Based on the application of residential noise limits at biologically sensitive properties, the noise limit of 75 dBA was applied at the sensitive habitat boundary to the east of the site.

Noise levels were calculated at sensitive habitat receivers to the east, as any other off-site receivers are located at a greater distance from the project site and therefore would be exposed to lesser noise impacts. In order to model the noise from a mobile point source (construction equipment moving around the site), an area source with moving point sources was used, which divides all of the sound power generated by each piece of equipment in the area along the surface of a plane, typical methodology for modeling this type of noise source. A noise model was created using Cadna for each stage of construction. The approximate center of work is located roughly 200 feet from the nearest sensitive receiver location. Noise calculations consider typical duty cycles of equipment to account for periods of activity and inactivity on the site.

Calculated construction noise impacts are shown in Table 14. A graphical representation of evaluated source and receiver locations is shown in Figures 7 through 10. Please refer to Appendix E for additional information.

Table 14. Temporary Construction Noise Levels at Nearest Sensitive Receivers (East)		
Stage	Equipment	Average Noise Level (dBA)
Utilities and Grading	Excavator, Backhoe, Water Truck, Grader	66
Foundation	Concrete Mixer Truck, Concrete Pump Truck	56
Paving	Paver, Roller, Dump Truck	62
Framing	Air Compressor, Telescopic Forklift	53

As shown in Table 14, based on the typical noise levels and duty cycles of construction equipment, average noise levels are anticipated to remain below 75 dBA at the nearest sensitive habit receiver. Any other receivers are located at a greater distance from on-site activity and therefore would be exposed to lesser noise levels.

Despite the fact that noise impacts are expected to remain in compliance with the construction noise limit of the City of Murrieta, the following “good practice” measures should still be practiced as a courtesy to residential neighbors:

1. Staging areas should be placed as far as possible from sensitive receivers.
2. Place stationary equipment in locations that will have a lesser noise impact on nearby sensitive receivers.
3. Turn off equipment when not in use.

4. Limit the use of enunciators or public address systems, except for emergency notifications.
5. Equipment used in construction should be maintained in proper operating condition, and all loads should be properly secured, to prevent rattling and banging.
6. Schedule work to avoid simultaneous construction activities that both generate high noise levels.
7. Use equipment with effective mufflers.
8. Minimize the use of backup alarms.

With operating hours limited to those permitted by the City of Murrieta and adherence to the general good practice construction noise control techniques, temporary construction noise impacts are expected to be less than significant at surrounding properties.

5.3 CEQA Significance Determination

Noise impacts from the project site are summarized below and classified per the noise portion of the CEQA Environmental Checklist form. This list summarizes conclusions made within the report and classifies the level of significance as: Potentially Significant Impact, Less than Significant with Mitigation Incorporated, Less than Significant Impact, or No Impact. *Italics* are used to denote language from the CEQA Environmental Checklist form.

XII. NOISE—Would the project result in:

- a) *Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?*

Less Than Significant Impact. Operational noise impacts calculated in Section 5.1.1 are not expected to generate a substantial permanent increase in ambient noise levels in the vicinity of the project site, and would comply with the noise limits of the City of Murrieta Municipal Code, with the project design features detailed in Section 5.1.1. The impact of permanent project-related noise sources would therefore be less than significant.

Additionally, as demonstrated in Section 5.1.2 of this report, noise impacts from project-generated traffic are not expected to cause a significant direct increase on any surrounding roadway. Additionally, traffic noise levels at nearby residential receivers are expected to remain within the “normally acceptable” range of noise levels shown in the City of Murrieta Noise Element to the General Plan considering the addition of project-generated traffic on surrounding roadways. This impact is also therefore considered to be less than significant.

As shown in Section 5.2 of this report, noise from temporary construction is expected to be less than significant considering a typical construction schedule. Noise impacts from anticipated construction activity are expected to remain below the applicable construction noise limits set by the City of Murrieta. Additionally, no construction activity will take place during the more sensitive nighttime hours when ambient noise levels tend to be lower, as per City of Murrieta requirements. For these reasons, this impact is deemed to be less than significant.

As demonstrated above, the project is not expected to cause a substantial permanent or temporary increase in ambient noise levels, and therefore, this impact can be classified as less than significant.

b) *Generation of excessive groundborne vibration or groundborne noise levels?*

Less Than Significant Impact. Proposed construction phases for this project are not expected to include any significant vibration inducing equipment, such as pile driving or heavy soil compaction. As these types of equipment will not be present, excessive levels of groundborne vibration and groundborne levels are not expected to be received by any persons. Construction vibration is therefore anticipated to be less than significant from activity at the project site.

c) *For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?*

No Impact. The project site is not located within an airport land use plan nor is it located within two miles of a private airstrip, public airport, or public use airport. Therefore, the proposed project would not expose people working in the project area to excessive noise levels from such uses.

6.0 CONCLUSION

Noise from the anticipated operational activity and HVAC equipment on site has been calculated to determine impacts at off-site receivers, including the biologically sensitive habitat to the east. Calculations show that with the project design features detailed in Section 5.1.1, noise levels from the mechanical equipment will be in compliance with the City of Murrieta noise regulations for both daytime and nighttime hours found within the Municipal Code. Project-generated traffic noise is also expected to be less than significant.

Noise levels from temporary construction activities associated with this project are expected to comply with the applicable City of Murrieta construction noise limits at all surrounding property lines and sensitive receivers, with activity limited to the daytime hours of 7 a.m. to 8 p.m. during all phases of construction. Construction is prohibited between the hours of 8 p.m. and 7 a.m. and on Sundays or legal holidays. Though it is not required by regulations, the general good practice construction noise control methods listed herein should be followed, as a courtesy to surrounding properties.

The proposed project is not expected to result in any potentially significant noise impacts by the standards of the California Environmental Quality Act (CEQA). Noise impacts are summarized in Section 5.3.

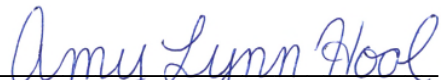
7.0 CERTIFICATION

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

This report is based on the related project information received and measured noise levels, and represents a true and factual analysis of the acoustical impact issues associated with the W.M. Lyles project, to be located in the City of Murrieta, California. This report was prepared by Rachael Cowell and Amy Hool.



Rachael S. Cowell, Acoustical Consultant

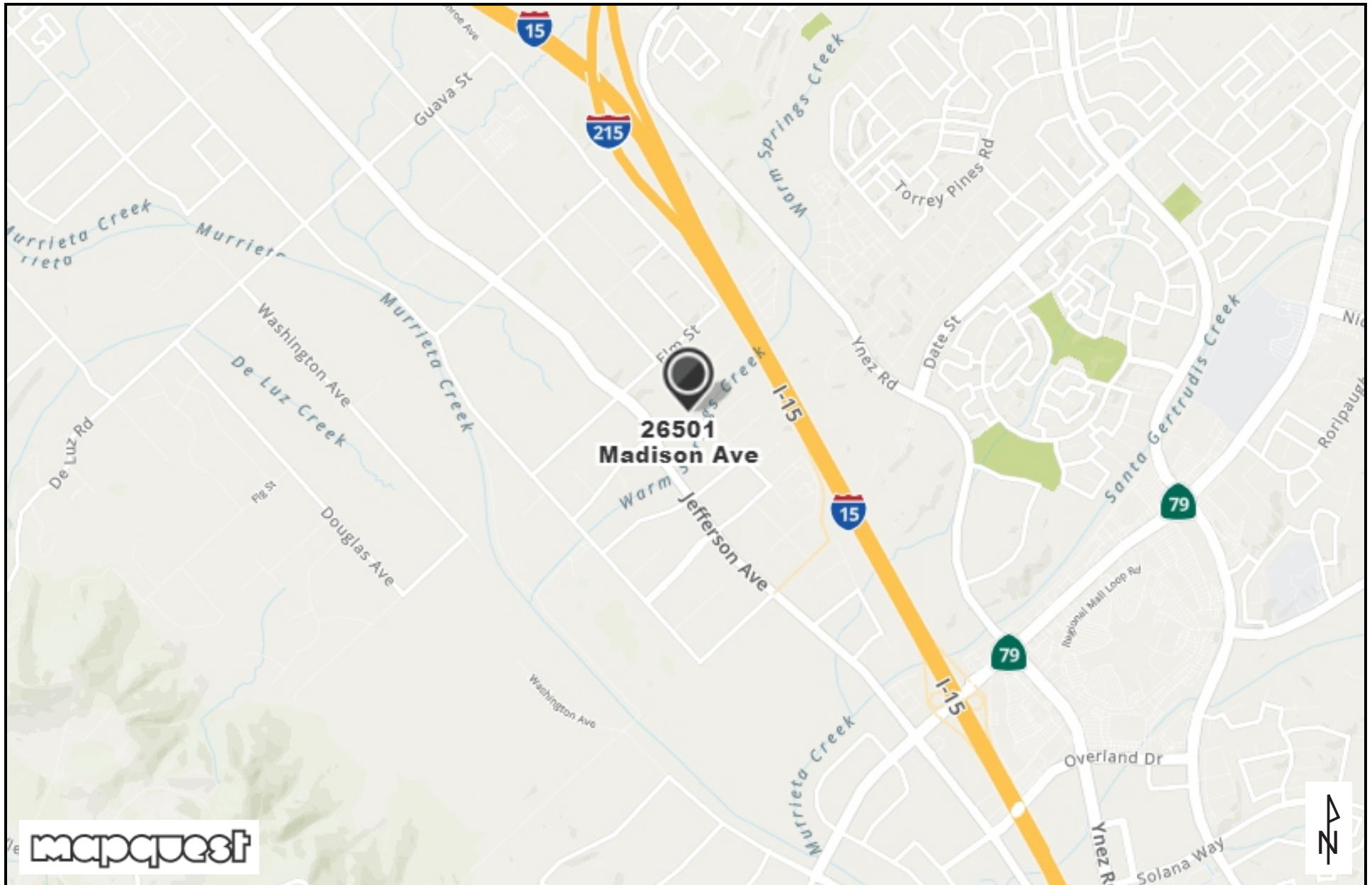


Amy Hool, President/CEO

8.0 REFERENCES

1. City of Murrieta General Plan 2035, Chapter 11: Noise Element.
2. City of Murrieta Municipal Code, Chapter 16.30: Noise.
3. Western Riverside County MSHCP, Volume 1, Section 6: MSHCP Implementation Structure, 2003.
4. California Environmental Quality Act (CEQA), Statute and Guidelines, 2018.
5. Final EIR, City of Murrieta General Plan 2035, Section 5.4: Traffic and Circulation
6. Darnell and Associates, Inc., Trip Generation Letter for 26051 Madison Avenue, Case No: PRE-2019-1875, May 13, 2020.
7. Federal Highway Administration, Highway Traffic Noise: Analysis and Abatement Guide, December 2011.
8. Department for Environment Food and Rural Affairs (DEFRA), Update of Noise Database for Prediction of Noise on Construction and Open Sites, 2005.
9. DataKustik, CadnaA (Computer Aided Noise Abatement), Version 2019.
10. Wyle Laboratories, Development of Ground Transportation Systems Noise Contours for the San Diego Region, December 1973.
11. Katz-Okitsu and Associates Traffic Engineers, Traffic Distribution Study, 1986.
12. U.S. Environmental Protection Agency Office of Noise Abatement and Control, Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare With an Adequate Margin of Safety, March 1974.

FIGURES



mapquest

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

Vicinity Map
Job # S200508

Figure 1

**Riverside County
Assessor's
Parcel Number:**

910-230-003

Project Location

910230003

gis.countyofriverside.us

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

**Assessor's Parcel Map
Job # S200508**

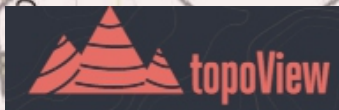
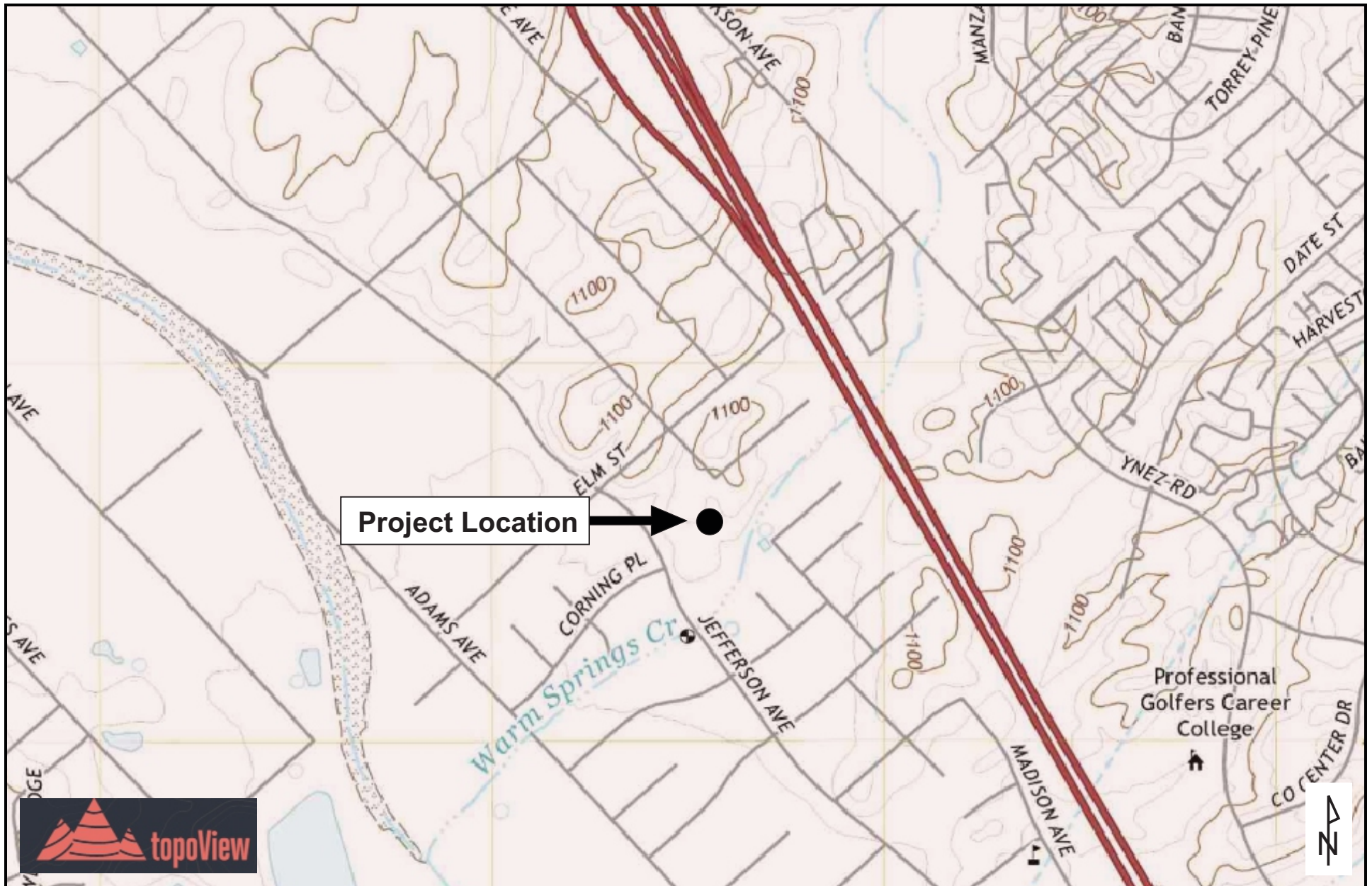
Figure 2



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

Satellite Aerial Photograph Showing Noise Measurement Locations
Job # S200508

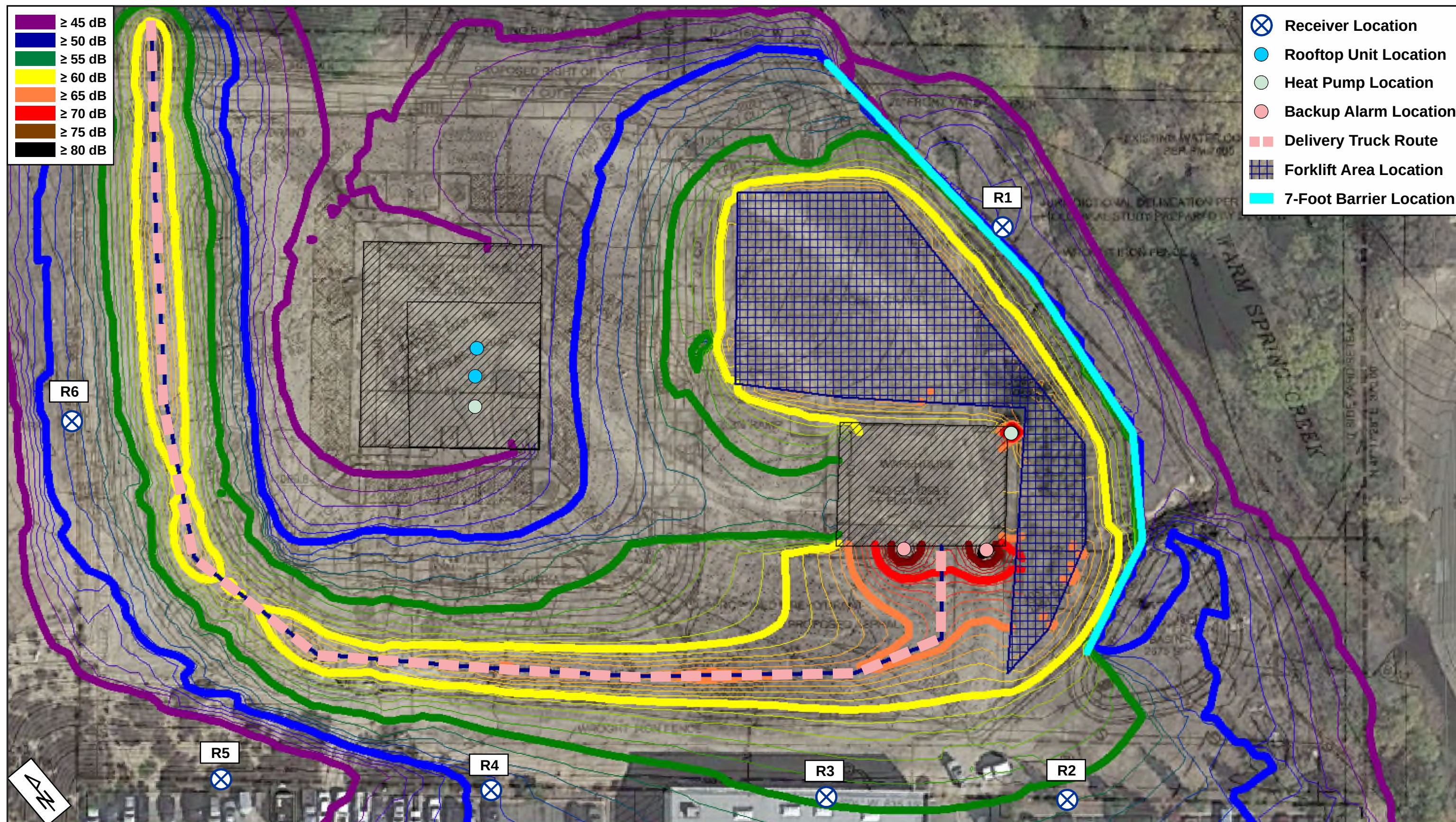
Figure 3



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

Topographic Map
Job # S200508

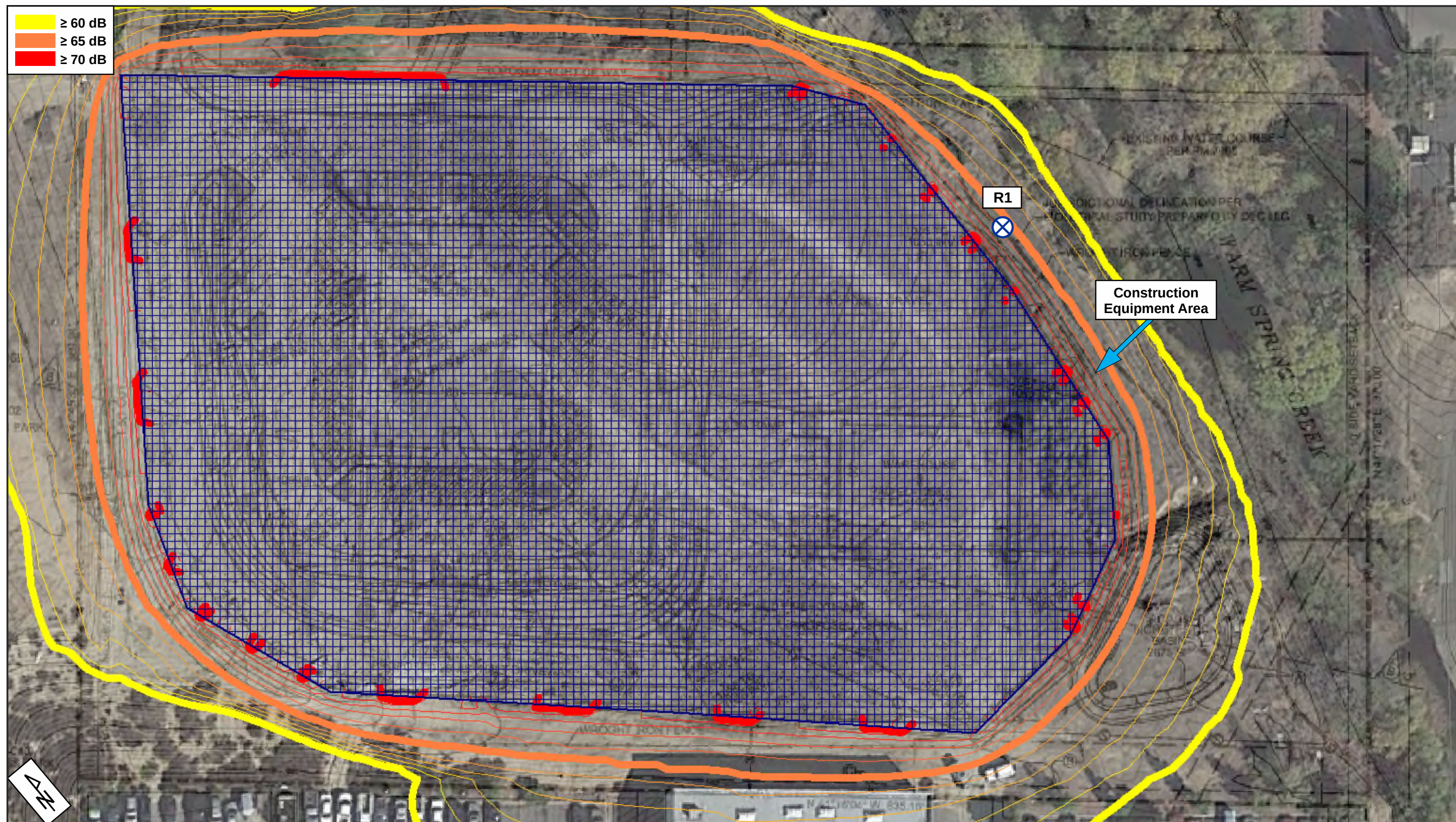
Figure 4



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

Satellite Aerial Photograph Showing Equipment Noise Contours and Receiver Locations - Daytime Scenario
 Job # S200508

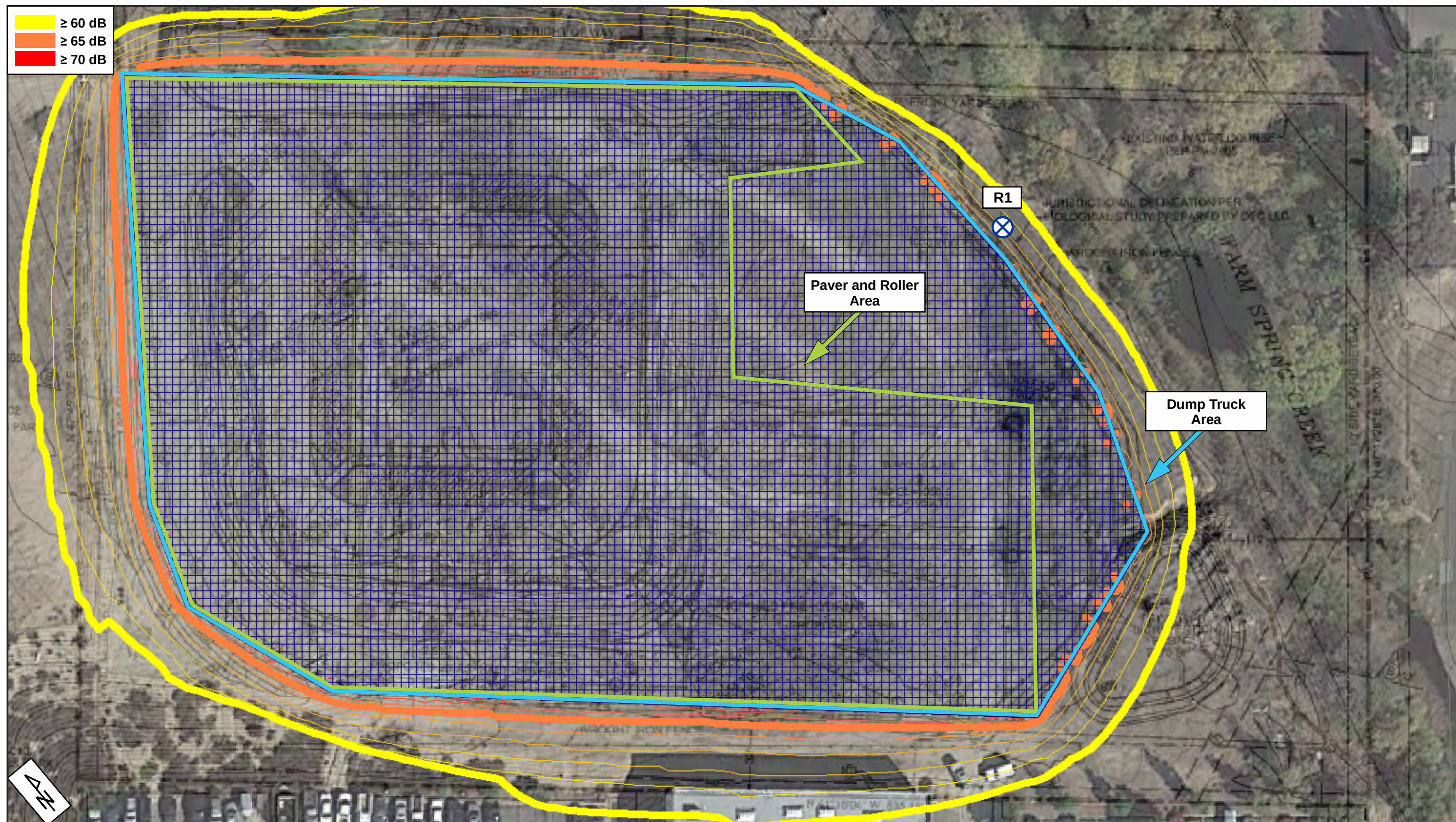
Figure 5



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

**Satellite Aerial Photograph Showing Construction Noise Contours and Receiver Locations - Utilities and Grading
Job # S200508**

Figure 7



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

**Satellite Aerial Photograph Showing Construction Noise Contours and Receiver Locations - Paving
 Job # S200508**

Figure 9

APPENDIX A

Project Plans

2019 GREEN BUILDING CODE REQUIREMENTS

INDOOR WATER USE
SHOW COMPLIANCE WITH THE FOLLOWING TABLE FOR NEW/REPLACED FIXTURES, PER CGC 4.303.1.

FIXTURE TYPE	MAXIMUM FLOW RATE
WATER CLOSETS	1.28 GALLONS/FLUSH
SHOWERHEADS	1.8 GPM @ 80 PSI
LAVATORY FAUCETS	1.2 GPM @ 60 PSI
KITCHEN FAUCETS	1.8 GPM @ 60 PSI
METERING FAUCETS	0.25 GALLONS PER CYCLE

WHEN A SHOWER IS PROVIDED WITH MULTIPLE SHOWER HEADS, THE SUM OF FLOW TO ALL THE HEADS SHALL NOT EXCEED 2.0 GPM @ 80 PSI, OR THE SHOWER SHALL BE DESIGNED SO THAT ONLY ONE HEAD IS ON AT A TIME. CGC 4.303.1.3.2.

LANDSCAPE IRRIGATION
WATER USE SHALL HAVE WEATHER OR SOIL BASED CONTROLLERS. CGC 4.304.1.

RECYCLING
A MINIMUM OF 65% OF CONSTRUCTION WASTE IS TO BE RECYCLED. CGC 4.408.1.

THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN TO THE JURISDICTION AGENCY THAT REGULATES WASTE MANAGEMENT, PER CGC 4.408.2.

OPERATION AND MAINTENANCE MANUAL
THE BUILDER IS TO PROVIDE AN OPERATION MANUAL (CONTAINING INFORMATION FOR MAINTAINING APPLIANCES, ETC.) FOR THE OWNER AT THE TIME OF FINAL INSPECTION. CGC 4.410.1.

POLLUTANT CONTROL
DURING CONSTRUCTION, ENDS OF DUCT OPENINGS ARE TO BE SEALED, AND MECHANICAL EQUIPMENT IS TO BE COVERED. CGC 4.504.1

VOC'S MUST COMPLY WITH THE LIMITATIONS LISTED IN SECTION 4.504.3 AND TABLES 4.504.1, 4.504.2, 4.504.3 AND 4.504.5 FOR: ADHESIVES, PAINTS AND COATINGS, CARPET AND COMPOSITION WOOD PRODUCTS. CGC 4.504.2

INTERIOR MOISTURE CONTROL
CONCRETE SLABS WILL BE PROVIDED WITH A CAPILLARY BREAK. CGC 4.505.2.1.

THE MOISTURE CONTENT OF WOOD SHALL NOT EXCEED 19% BEFORE IT IS ENCLOSED IN CONSTRUCTION. THE MOISTURE CONTENT NEEDS TO BE CERTIFIED BY ONE OF 3 METHODS SPECIFIED IN SECTION 4.505.3. BUILDING MATERIALS WITH VISIBLE SIGNS OF WATER DAMAGE SHOULD NOT BE USED IN CONSTRUCTION. THE MOISTURE CONTENT MUST BE DETERMINED BY THE CONTRACTOR BY ONE OF THE METHODS LISTED IN CGC 4.505.3.

INDOOR AIR QUALITY
BATHROOM FANS SHALL BE ENERGY STAR RATED, VENTED DIRECTLY TO THE OUTSIDE AND CONTROLLED BY A HUMIDISTAT. CGC 4.506.1.

WRITTEN VERIFICATION
PRIOR TO FINAL INSPECTION THE LICENSED CONTRACTOR, ARCHITECT OR ENGINEER IN RESPONSIBLE CHARGE OF THE OVERALL CONSTRUCTION MUST PROVIDE TO THE BUILDING DEPARTMENT OFFICIAL WRITTEN VERIFICATION THAT ALL APPLICABLE PROVISIONS FROM THE GREEN BUILDING STANDARDS CODE HAVE BEEN IMPLEMENTED AS PART OF THE CONSTRUCTION. CGC 102.3.

UTILITY PURVEYORS:

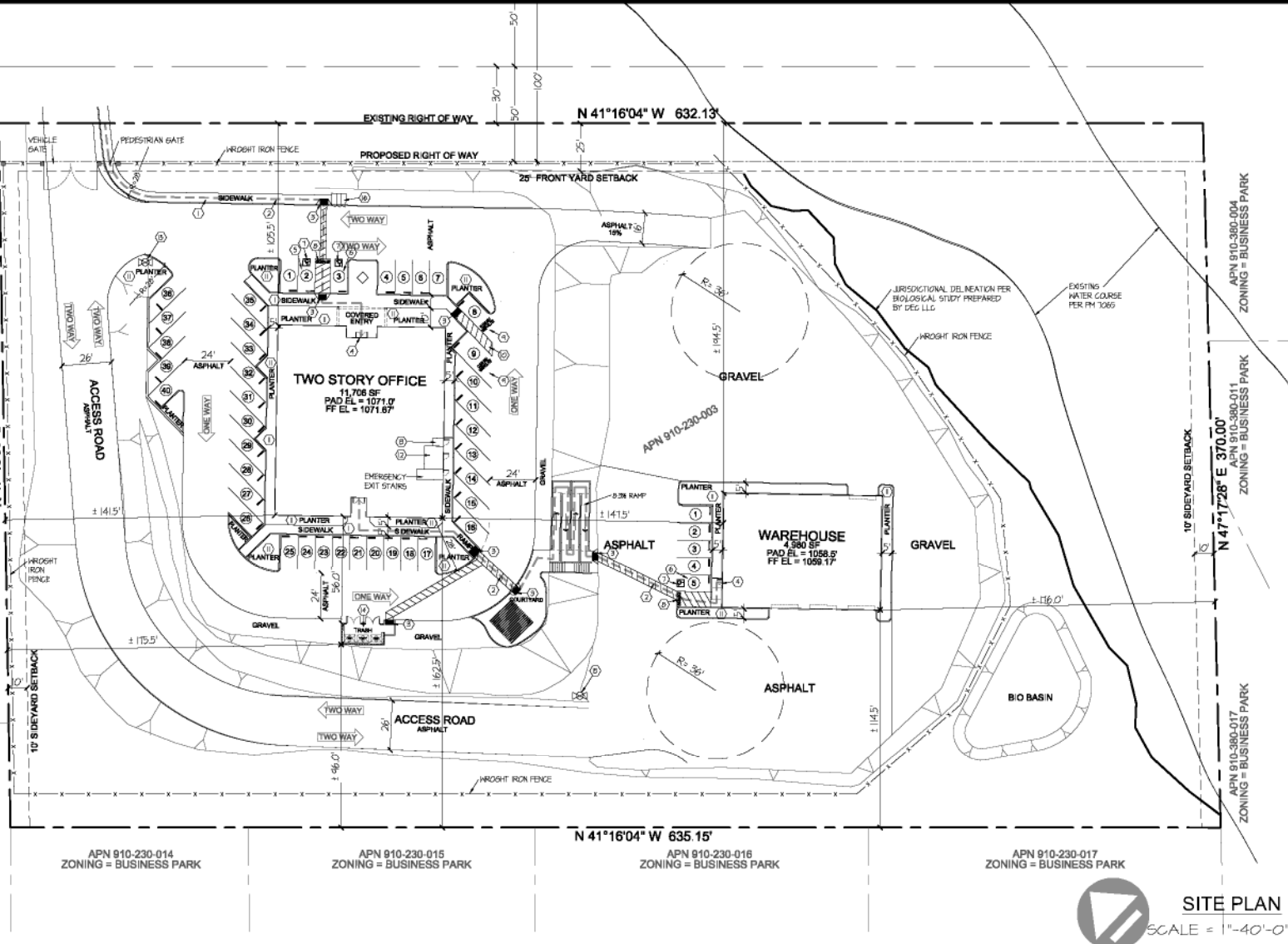
WATER SERVICE RANCHO CALIFORNIA WATER DISTRICT 42135 WINCHESTER RD TEMECULA, CA 92590 (951) 296-4400	SEWER SERVICE EASTERN MUNICIPAL WATER DISTRICT 22710 TRUMBULE RD PERRIS, CA 92570 (951) 428-3177
ELECTRIC SERVICE SOUTHERN CALIFORNIA EDISON 24487 PRIELIPP RD WILDOMAR, CA 92595 (800) 611-1911	GAS SERVICE GAS COMPANY 25620 JEFFERSON AVE MURRIETA, CA 92562 (800) 421-2200

SCHOOL DISTRICT
MURRIETA VALLEY UNIFIED SCHOOL DISTRICT
41810 MCALBY COURT
MURRIETA, CA 92562
(951) 696-1600

MADISON AVE

SITE NOTES

- CONCRETE SIDEWALK
- ACCESSIBLE PATH TO MAIN ENTRY (SLOPE < 1:20 WALK)
- TRUNCATED DOME WARNING STRIP
- PRIMARY ENTRANCE MEETS CURRENT TITLE 24 ACCESSIBILITY PROVISIONS
- ACCESSIBLE PARKING STALL
- VAN ACCESSIBLE PARKING STALL
- INTERNATIONAL ACCESSIBLE PARKING PAVEMENT SYMBOL PER SEC 1109A.8.8
- ACCESSIBLE PARKING LOADING ZONE THE WORDS "NO PARKING" SHALL BE PAINTED ON THE GROUND WITHIN EACH LOADING AND UNLOADING ACCESS AISLE. THIS NOTICE SHALL BE PAINTED IN WHITE LETTERS NO LESS THAN 12 INCHES HIGH AND LOCATED SO THAT IT IS VISIBLE TO TRAFFIC ENFORCEMENT OFFICIALS.
- CLEAN AIR / VANPOOL / ELECTRICAL VEHICLE PARKING SPACE
- 60" ACCESS AISLE
- LANDSCAPE PLANTER
- ELECTRICAL ROOM
- FIRE RISER
- TRASH AND RECYCLING ENCLOSURE
- PRIVATE FIRE HYDRANT
- THREE BIKE LOCKERS, BIKE-SHELL MODEL 301



SITE PLAN

SCALE = 1"=40'-0"

ALLOWABLE AREA ANALYSIS

OPEN YARDS: 4 SIDES	MIN YARD WIDTH: 60 FT	AREA INCREASE: UNLIMITED
OCCUPANCY GROUP		S, F, B
BASIC AREA 56FT (CGC TABLE 506.2)	A	A= 8,500
AREA INCREASE FOR OPEN YARDS (CGC 506.3)	B	x2= 17,000
AREA INCREASE FOR SPRINKLERS	C	x2= 34,000
AREA INCREASE FOR MULTI-STORY	D	x2= 68,000
MAXIMUM BUILDING AREA 56FT (D)		UNLIMITED (CGC 505.2)
MAXIMUM STORIES (CGC TABLE 504.4)	F	F= 2
STORIES INCREASE FOR SPRINKLERS (CGC 505.3)	G	x1= 2
NUMBER OF BUILDING STORIES (G)		2
MAXIMUM BUILDING HEIGHT (CGC TABLE 504.3)		40

UTILITY PURVEYORS:

WATER SERVICE RANCHO CALIFORNIA WATER DISTRICT 42135 WINCHESTER RD TEMECULA, CA 92590 (951) 296-4400	SEWER SERVICE EASTERN MUNICIPAL WATER DISTRICT 22710 TRUMBULE RD PERRIS, CA 92570 (951) 428-3177
ELECTRIC SERVICE SOUTHERN CALIFORNIA EDISON 24487 PRIELIPP RD WILDOMAR, CA 92595 (800) 611-1911	GAS SERVICE GAS COMPANY 25620 JEFFERSON AVE MURRIETA, CA 92562 (800) 421-2200

SCHOOL DISTRICT
MURRIETA VALLEY UNIFIED SCHOOL DISTRICT
41810 MCALBY COURT
MURRIETA, CA 92562
(951) 696-1600

OCCUPANT LOAD

OCCUPANCY	sq.ft.	factor	load
[N] OFFICES (B)	11,706	/ 100	117
[N] WAREHOUSE (S)	4,980	/ 500	10
TOTAL OCCU LOAD	16,686 SF		127

SITE PARKING REQUIRED

OFFICES:	12,000 SF	
• FIRST 5,000 SF	5,000 SF / 250	20 SPACES
• ABOVE 5,000 SF	7,000 SF / 350	20 SPACES
WAREHOUSE:	5,000 SF / 1,000	5 SPACES
REQUIRED TOTAL PARKING SPACES		45 SPACES
PROVIDED TOTAL PARKING SPACES		45 SPACES

ACCESSIBLE PARKING (1 VAN ACCESSIBLE)

REQUIRED SPACES	2 SPACES
PROVIDED SPACES	3 SPACES
CLEAN AIR, VAN POOL, ELECTRIC VEHICLE PARKING (1 VAN ACCESSIBLE)	2 SPACES
REQUIRED SPACES	2 SPACES
PROVIDED SPACES	2 SPACES

TOTAL SITE PARKING PROVIDED
STANDARD STALLS (9'x18') 40 SPACES
ACCESSIBLE (INCLUDING 1 VAN ACCESSIBLE) 3 SPACES
CLEAN AIR, VAN POOL, EV 2 SPACES
TOTAL 45 SPACES

MINIMUM PLUMBING FACILITIES

OFFICE OCCUPANT LOAD = 117 (59 ea M/F) OCCUPANCY B
WATER CLOSETS REQUIRED
MALE 1 FOR (1-100 OCCUPANTS)
FEMALE 3 FOR (51-100 OCCUPANTS)

URINALS REQUIRED

MALE 1 FOR (1-100 OCCUPANTS)

LAVATORIES REQUIRED

MALE 1 FOR (1-200 OCCUPANTS)
FEMALE 1 FOR (1-100 OCCUPANTS)

DRINKING FOUNTAINS REQUIRED

1 FOR (1-250 OCCUPANTS)

WAREHOUSE OCCUPANT LOAD = 10 (5 ea M/F) OCCUPANCY S

WATER CLOSETS REQUIRED
MALE 1 FOR (1-100 OCCUPANTS)
FEMALE 1 FOR (1-100 OCCUPANTS)

URINALS REQUIRED

NOT REQUIRED

LAVATORIES REQUIRED

MALE 1 FOR (1-200 OCCUPANTS)
FEMALE 1 FOR (1-200 OCCUPANTS)

DRINKING FOUNTAINS REQUIRED

1 FOR (1-250 OCCUPANTS)

HAZARDOUS MATERIALS

THERE SHALL BE NO HAZARDOUS MATERIALS STORED OR USED WITHIN THE BUILDING WHICH WOULD EXCEED THE QUANTITIES LISTED IN IBC TABLES 307.1(i) AND 307.1(j)

DEFERRED SUBMITTALS

DEFERRED SUBMITTAL AND SEPARATE PERMITS ARE REQUIRED FOR THE FOLLOWING:

- FIRE SPRINKLERS
- FIRE ALARMS
- HIGH PILE STORAGE

SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

PROJECT DIRECTORY:

OWNER/APPLICANT
W M LYLES CO
42142 ROICK DR
TEMECULA, CA 92590
(951) 972-7393

DESIGNER
DAVE HENRIKSON
HENRIKSON BUILDING DESIGN
33115 TEMECULA PARKWAY #A218
TEMECULA, CA 92592
(951) 764-2302

ARCHITECT

SHAUN O'BRIEN
2341 W. CLEMENS LANE #80
FALLBROOK, CA 92028
(160) 801-0450

STRUCTURAL ENGINEER

DUNN SAVOIE, INC
908 S. CLEVELAND ST
OCEANSIDE, CA 92054
(160) 466-6355

GENERAL CONTRACTOR
YOUNGREN CONSTRUCTION
443 E. ALVARADO ST
FALLBROOK, CA 92028
(160) 728-9874

ELECTRICAL ENGINEER
GMEP ENGINEERS
26439 RANCHO PKWY S SUITE 120
LAKE FOREST, CA 92630
(949) 267-9045

PLUMBING ENGINEER

GMEP ENGINEERS
26439 RANCHO PKWY S SUITE 120
LAKE FOREST, CA 92630
(949) 267-9045

MECHANICAL ENGINEER

GMEP ENGINEERS
26439 RANCHO PKWY S SUITE 120
LAKE FOREST, CA 92630
(949) 267-9045

TITLE 24 ENGINEER

GMEP ENGINEERS
26439 RANCHO PKWY S SUITE 120
LAKE FOREST, CA 92630
(949) 267-9045

CODE COMPLIANCE:

THIS PROJECT SHALL COMPLY WITH TITLE 24, AND 2019 CALIFORNIA BUILDING CODE AS APPLICABLE 2019 CALIFORNIA GREEN BUILDING CODE 2019 CALIFORNIA ELECTRICAL CODE 2019 CALIFORNIA PLUMBING CODE 2019 CALIFORNIA MECHANICAL CODE 2019 CALIFORNIA FIRE CODE 2019 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS THESE PLANS AND ALL WORK SHALL COMPLY WITH THE CALIFORNIA BUILDING STANDARD CODE FOUND IN THE STATE OF CALIFORNIA TITLE 24, CCR AS AMENDED AND ADOPTED BY THE CITY OF MURRIETA.

SCOPE OF WORK

- CONSTRUCT A NEW 11,706 SF TWO STORY OFFICE STRUCTURE
- CONSTRUCT A NEW 4,980 SF SINGLE STORY WAREHOUSE STRUCTURE
- CONSTRUCT A NEW 5' OUTDOOR COURTYARD
- CONSTRUCT A NEW 5' TRASH ENCLOSURE

VICINITY MAP



SHEET INDEX

NO.	DESCRIPTION
A0.1	SITE PLAN / PROJECT INFORMATION
A0.2	SITE DETAILS / TRASH ENCLOSURE
A1.1	OFFICE FIRST FLOOR PLAN AND KEY NOTES
A1.2	OFFICE FIRST FLOOR DIMENSION PLAN
A1.3	OFFICE SECOND FLOOR PLAN AND KEY NOTES
A1.4	OFFICE SECOND FLOOR DIMENSION PLAN
A1.5	WAREHOUSE FLOOR PLAN
A2.1	OFFICE ROOF PLAN
A3.1	OFFICE ELEVATIONS
A3.2	OFFICE ELEVATIONS
A3.3	WAREHOUSE ELEVATIONS

REVISIONS

△	
△	
△	



henrikson
BUILDING DESIGN
DAVE HENRIKSON, PRINCIPAL DESIGNER
33115 TEMECULA PARKWAY #A218
TEMECULA, CA 92592
(951) 764-2302
e-mail: davehen-bd@aol.com

YOUNGREN CONSTRUCTION INC.
GENERAL CONTRACTING, DESIGN, REMODELING
443 East Alvarado Street, Fallbrook, CA 92028
760 728 9874 office 760 728 0265 fax 760 784858
www.youngrenconstruction.com

DEVELOPMENT PLAN
W M LYLES
26291 MADISON
MURRIETA, CA 92562

JOB NO: 19-12

DATE: 3/02/2020

DESIGNER: DKH

CHECKED: DKH

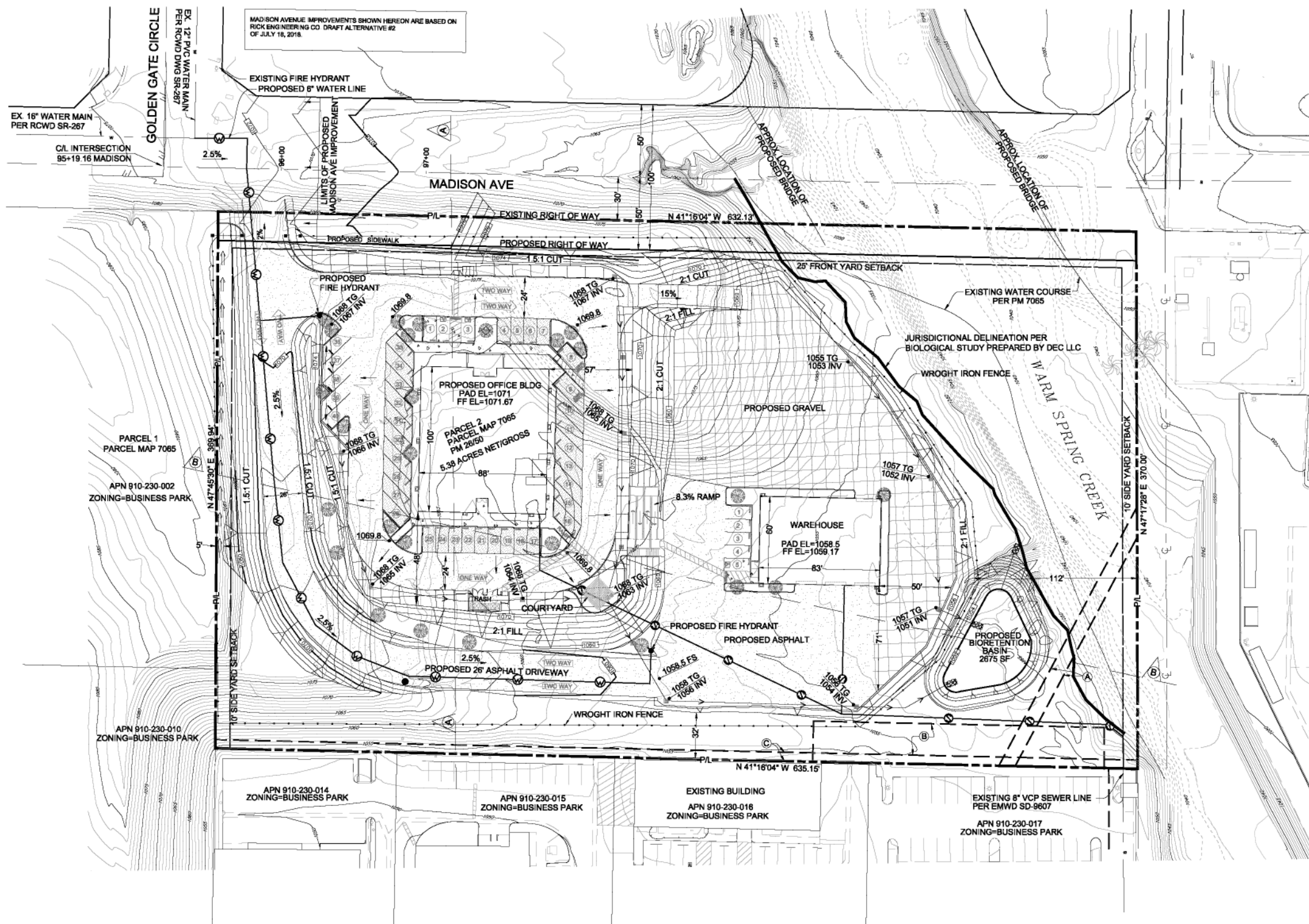
SCALE: 1"=40'-0"

SHEET TITLE

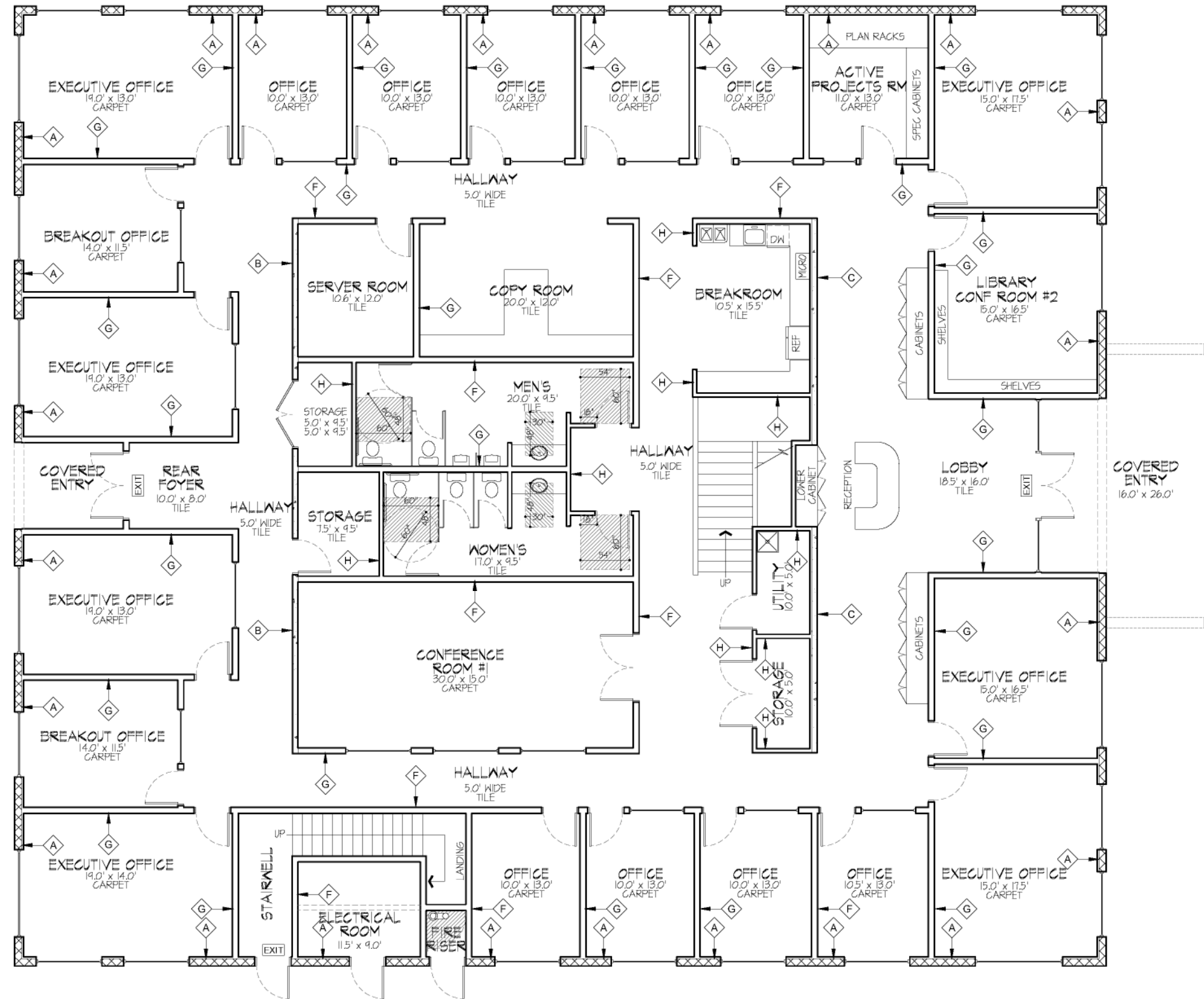
SITE PLAN FOR DEVELOPMENT PLAN

SHEET NO.

A0.1



JOB NO. 2019-23 MARCH 1, 2020



FIRST FLOOR PLAN

FIRST FLOOR 3624 SF
SECOND FLOOR 3082 SF
TOTAL 11,706 SF

FLOOR PLAN KEYNOTES

WALL TYPE

- A 8" CMU BLOCK WALL, 12'-0" TALL, SPLIT FACE EXTERIOR w/ 2x FIRRING STRIPS WITH 1/2" GYPSUM BOARD INTERIOR SIDE
- B 6" POURED IN PLACE CONCRETE WALL, 12'-0" TALL, EXPOSED ON BOTH SIDES FOR VISUAL EFFECT
- C 6" POURED IN PLACE CONCRETE WALL, 12'-0" TALL, EXPOSED ON ONE SIDE FOR VISUAL EFFECT w/ 2x FIRRING STRIPS WITH 1/2" GYPSUM BOARD ON ONE SIDE
- D 2x6 STUD WALL, SECOND FLOOR EXTERIOR, R-19, 12'-0" TALL
- E 2x6 STUD WALL, SECOND FLOOR EXTERIOR, 5'-0" TALL
- F 2x6 STUD STRUCTURAL WALL, R-19, 12'-0" TALL, CONNECT TO FRAMING
- G 2x6 STUD PARTITION WALL, R-19, 19'-6" TALL, CONNECT TO FRAMING
- H 2x4 STUD PARTITION WALL, R-15, 19'-6" TALL, CONNECT TO FRAMING

PROJECT DATA

SITE ADDRESS
26501 MADISON AVE
MURRIETA, CA 92562

OWNER

W M LYLES CO
42142 ROICK DR
TEMEGULA, CA 92590
(951) 412-7893

APPLICANT (AGENT FOR OWNER & EXHIBIT PREPARER)

DAVE HENRIKSON
HENRIKSON BUILDING DESIGN
33115 TEMEGULA PARKWAY #A218
TEMEGULA, CA 92592
(951) 764-2302

LEGAL DESCRIPTION

APN: 910-230-003
REG BOOK/PAGE PM 20/50
SUBDIVISION PM 1065
LOT 2

BUILDING DATA

DEVELOPMENT PERMIT No

ZONING DESIGNATION	BP - BUSINESS PARK
GENERAL PLAN DESIGNATION	BP - BUSINESS PARK
EXISTING LAND USE	VACANT
TOTAL SITE AREA (GROSS)	234.331 SF 5.83 AC
TOTAL BUILDING AREA (PROPOSED)	
OFFICE BUILDING	11,706 SF
WAREHOUSE	4,980 SF
TOTAL	16,686 SF

FLOOR AREA RATIO (F.A.R.) 0.01
FLOOR AREA RATIO ALLOWED 0.

LANDSCAPED AREA 36,000 SF

LANDSCAPE AREA REQUIRED (15%) 35,550 SF

NUMBER OF STORIES 2 ABOVE GRADE

BUILDING HEIGHT 21'-0" MAX

BUILDING HEIGHT ALLOWED 50'-0" MAX

TYPE OF CONSTRUCTION TYPE V-NR,
B (BUSINESS)
51 (WAREHOUSE)

OCCUPANCY CLASSIFICATION

FIRE SPRINKLERS YES, MONITORED

REVISIONS



henrikson
BUILDING DESIGN
DAVE HENRIKSON, PRINCIPAL DESIGNER
33115 TEMEGULA PARKWAY #A218
TEMEGULA, CA 92592
(951) 764-2302
e-mail: davehen-bdd.com

YOUNGREN CONSTRUCTION INC.
GENERAL CONTRACTING, DESIGN, REMODELING
443 East Avenida Street, Fairbrook, CA 90208
760 728 9874 office 760 728 0268 fax 760 784858
www.youngrenconstruction.com

PROJECT NAME
**DEVELOPMETN PLAN
W M LYLES
26291 MADISON
MURRIETA, CA 92562**

JOB NO: 19-12

DATE: 3/02/2020

DESIGNER: DWH

CHECKED: DWH

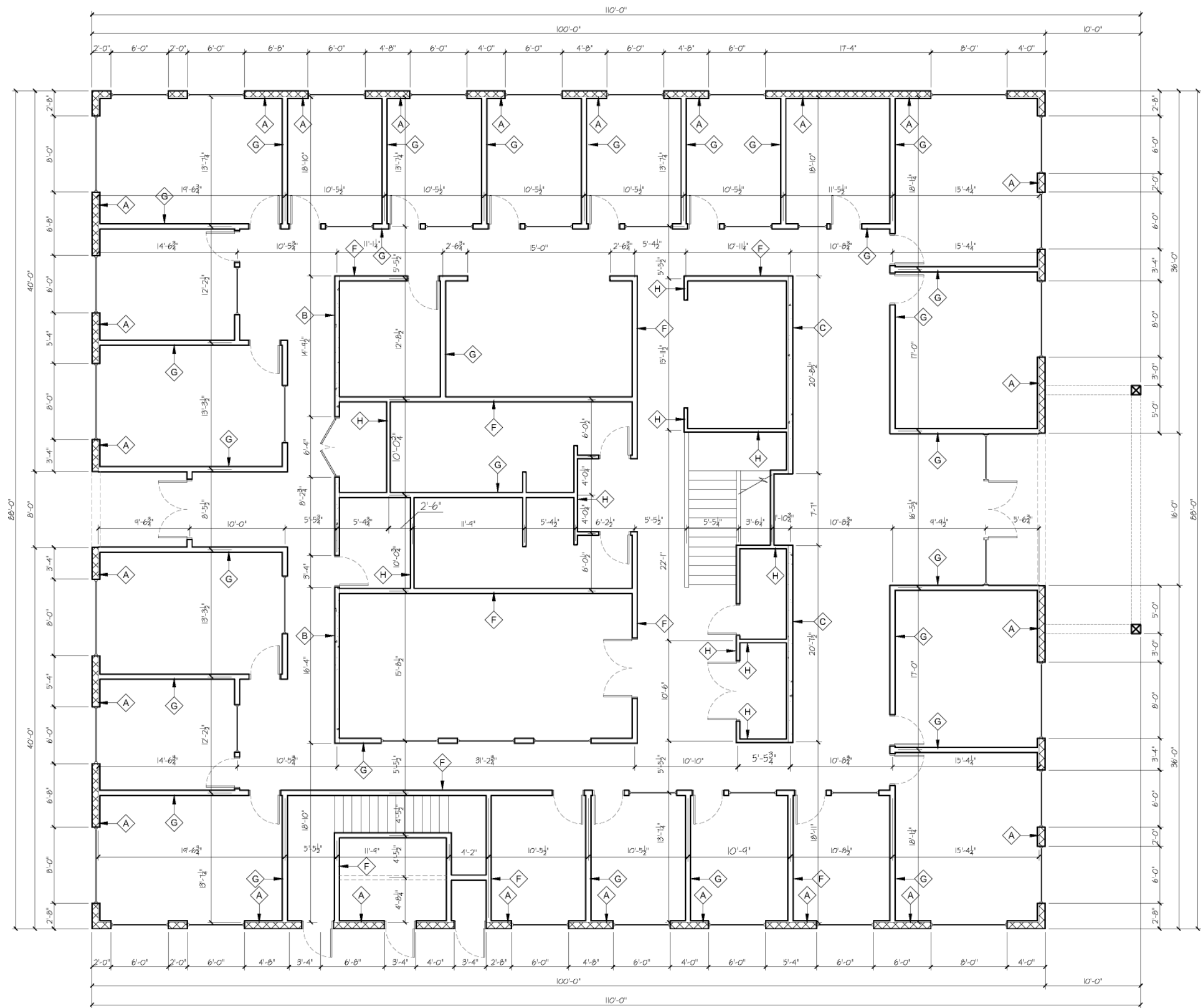
SCALE: 3/16"=1'-0"

SHEET TITLE

FIRST FLOOR
PLAN FOR
DEVELOPMENT
PLAN

SHEET NO.

A1.1



FIRST FLOOR DIMENSION PLAN

WALL TYPE

- A 8" CMU BLOCK WALL, 12'-0" TALL, SPLIT FACE EXTERIOR W/ 2x FIRRING STRIPS WITH 1/2" GYPSUM BOARD INTERIOR SIDE
- B 6" POURED IN PLACE CONCRETE WALL, 12'-0" TALL, EXPOSED ON BOTH SIDES FOR VISUAL EFFECT
- C 6" POURED IN PLACE CONCRETE WALL, 12'-0" TALL, EXPOSED ON ONE SIDE FOR VISUAL EFFECT W/ 2x FIRRING STRIPS WITH 1/2" GYPSUM BOARD ON ONE SIDE
- D 2x6 STUD WALL, SECOND FLOOR EXTERIOR, R-19, 12'-0" TALL
- E 2x6 STUD WALL, SECOND FLOOR EXTERIOR, 5'-0" TALL
- F 2x6 STUD STRUCTURAL WALL, R-19, 12'-0" TALL, CONNECT TO FRAMING
- G 2x6 STUD PARTITION WALL, R-19, 8'-6" TALL, CONNECT TO FRAMING
- H 2x4 STUD PARTITION WALL, R-15, 8'-6" TALL, CONNECT TO FRAMING

DIMENSION NOTES

- INTERIOR DIMENSION ON FIRST FLOOR MEASURE FROM INSIDE FACE OF EXTERIOR CMU BLOCK WALL TO CENTER OF INTERIOR STUD WALL.
- INTERIOR DIMENSIONS ON SECOND FLOOR MEASURE FROM OUTSIDE EDGE OF EXTERIOR STUD WALL TO CENTER OF INTERIOR STUD WALL.

PROJECT DATA

SITE ADDRESS
26501 MADISON AVE
MURRIETA, CA 92562

OWNER
W M LYLES CO
42142 ROLCK DR
TEMEGULA, CA 92590
(951) 472-7593

APPLICANT (AGENT FOR OWNER & EXHIBIT PREPARER)
DAVE HENRIKSON
HENRIKSON BUILDING DESIGN
33115 TEMEGULA PARKWAY #A218
TEMEGULA, CA 92592
(951) 764-2302

LEGAL DESCRIPTION

A.P.N. 910-230-003
REG BOOK/PAGE PM 20/50
SUBDIVISION PM 1065
LOT 2

BUILDING DATA

DEVELOPMENT PERMIT No

ZONING DESIGNATION	BP - BUSINESS PARK
GENERAL PLAN DESIGNATION	BP - BUSINESS PARK
EXISTING LAND USE	VACANT
TOTAL SITE AREA (GROSS)	234.331 SF 5.83 AC
TOTAL BUILDING AREA (PROPOSED)	
OFFICE BUILDING	11,706 SF
WAREHOUSE	4,980 SF
TOTAL	16,686 SF

FLOOR AREA RATIO (F.A.R.) 0.07
FLOOR AREA RATIO ALLOWED 0.

LANDSCAPED AREA 36,000 SF

LANDSCAPE AREA REQUIRED (15%) 35,550 SF

NUMBER OF STORIES 2 ABOVE GRADE

BUILDING HEIGHT 21'-0" MAX

BUILDING HEIGHT ALLOWED 50'-0" MAX

TYPE OF CONSTRUCTION TYPE V-NR,

B (BUSINESS)

51 (WAREHOUSE)

FIRE SPRINKLERS YES, MONITORED

REVISIONS



henrikson
BUILDING DESIGN
DAVE HENRIKSON, PRINCIPAL DESIGNER
33115 TEMEGULA PARKWAY #A218
TEMEGULA, CA 92592
(951) 764-2302
e-mail: dave@hen-bd.com

YOUNGREN CONSTRUCTION INC.
GENERAL CONTRACTING, DESIGN, REMODELING
443 East Avenida Street, Fallbrook, CA 92028
760 728 9874 office 760 728 0265 fax 760 784858
www.youngrenconstruction.com

PROJECT NAME
DEVELOPMENT PLAN
W M LYLES
26291 MADISON
MURRIETA, CA 92562

JOB NO. 19-12

DATE 3/02/2020

DESIGNER DWH

CHECKED DWH

SCALE 3/16"=1'-0"

SHEET TITLE

FIRST FLOOR

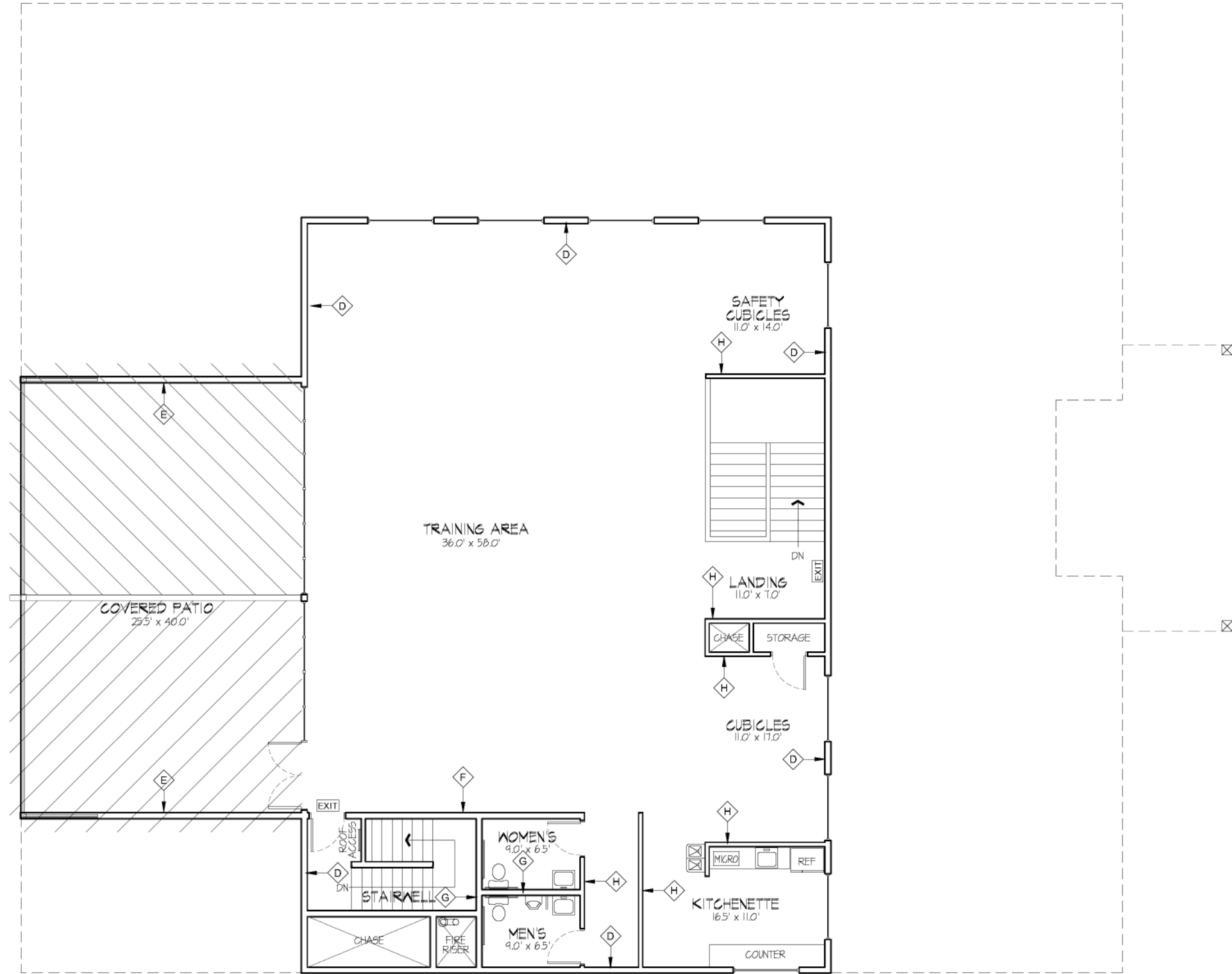
DIMENSION PLAN

FOR DEVELOPMENT

PLAN

SHEET NO.

A1.2



SECOND FLOOR PLAN

SECOND FLOOR
COVERED PATIO

3,082 SF
1,000 SF

FLOOR PLAN KEYNOTES

WALL TYPE

- A 8" CMU BLOCK WALL, 12'-0" TALL, SPLIT FACE EXTERIOR w/ 2x FIRRING STRIPS WITH 1/2" GYPSUM BOARD INTERIOR SIDE
- B 6" POURED IN PLACE CONCRETE WALL, 12'-0" TALL, EXPOSED ON BOTH SIDES FOR VISUAL EFFECT
- C 6" POURED IN PLACE CONCRETE WALL, 12'-0" TALL, EXPOSED ON ONE SIDE FOR VISUAL EFFECT w/ 2x FIRRING STRIPS WITH 1/2" GYPSUM BOARD ON ONE SIDE
- D 2x6 STUD WALL, SECOND FLOOR EXTERIOR, R-19, 12'-0" TALL
- E 2x6 STUD WALL, SECOND FLOOR EXTERIOR, 5'-0" TALL
- F 2x6 STUD STRUCTURAL WALL, R-19, 12'-0" TALL, CONNECT TO FRAMING
- G 2x6 STUD PARTITION WALL, R-19, 19'-6" TALL, CONNECT TO FRAMING
- H 2x4 STUD PARTITION WALL, R-15, 19'-6" TALL, CONNECT TO FRAMING

PROJECT DATA
SITE ADDRESS

26501 MADISON AVE
MURRIETA, CA 92562

OWNER
W M LYLES CO
42142 ROICK DR
TEMEGULA, CA 92590
(951) 412-7893

APPLICANT (AGENT FOR OWNER & EXHIBIT PREPARER)

DAVE HENRIKSON
HENRIKSON BUILDING DESIGN
33175 TEMEGULA PARKWAY #A218
TEMEGULA, CA 92592
(951) 764-2302

LEGAL DESCRIPTION

APN: 910-230-003
REG BOOK/PAGE PM 20/50
SUBDIVISION PM 1065
LOT 2

BUILDING DATA

DEVELOPMENT PERMIT No

ZONING DESIGNATION	BP -BUSINESS PARK
GENERAL PLAN DESIGNATION	BP -BUSINESS PARK
EXISTING LAND USE	VACANT
TOTAL SITE AREA (GROSS)	234.331 SF 5.83 AC
TOTAL BUILDING AREA (PROPOSED)	11,706 SF
OFFICE BUILDING	4,980 SF
WAREHOUSE	16,686 SF
TOTAL	11,706 SF

FLOOR AREA RATIO (F.A.R.) 0.01

FLOOR AREA RATIO ALLOWED 0.

LANDSCAPED AREA 36,000 SF

LANDSCAPE AREA REQUIRED (15%) 35,500 SF

NUMBER OF STORIES 2 ABOVE GRADE

BUILDING HEIGHT 21'-0" MAX

BUILDING HEIGHT ALLOWED 50'-0" MAX

TYPE OF CONSTRUCTION TYPE V-NR,

OCCUPANCY CLASSIFICATION B (BUSINESS)

FIRE SPRINKLERS 51 (WAREHOUSE)

YES, MONITORED

REVISIONS



henrikson
BUILDING DESIGN
DAVE HENRIKSON, PRINCIPAL DESIGNER
33175 TEMEGULA PARKWAY #A218
TEMEGULA, CA 92592
(951) 764-2302
e-mail: dave@hen-bdl.com

YOUNGREN CONSTRUCTION INC.
GENERAL CONTRACTING, DESIGN, REMODELING
443 East Avenida Street, Fallbrook, CA 92028
760 728 9874 office 760 728 0265 fax Lic# 784858
www.youngrenconstruction.com

PROJECT NAME
**DEVELOPMETN PLAN
W M LYLES
26281 MADISON
MURRIETA, CA 92562**

JOB NO: 19-12

DATE: 3/02/2020

DESIGNER: DWH

CHECKED: DWH

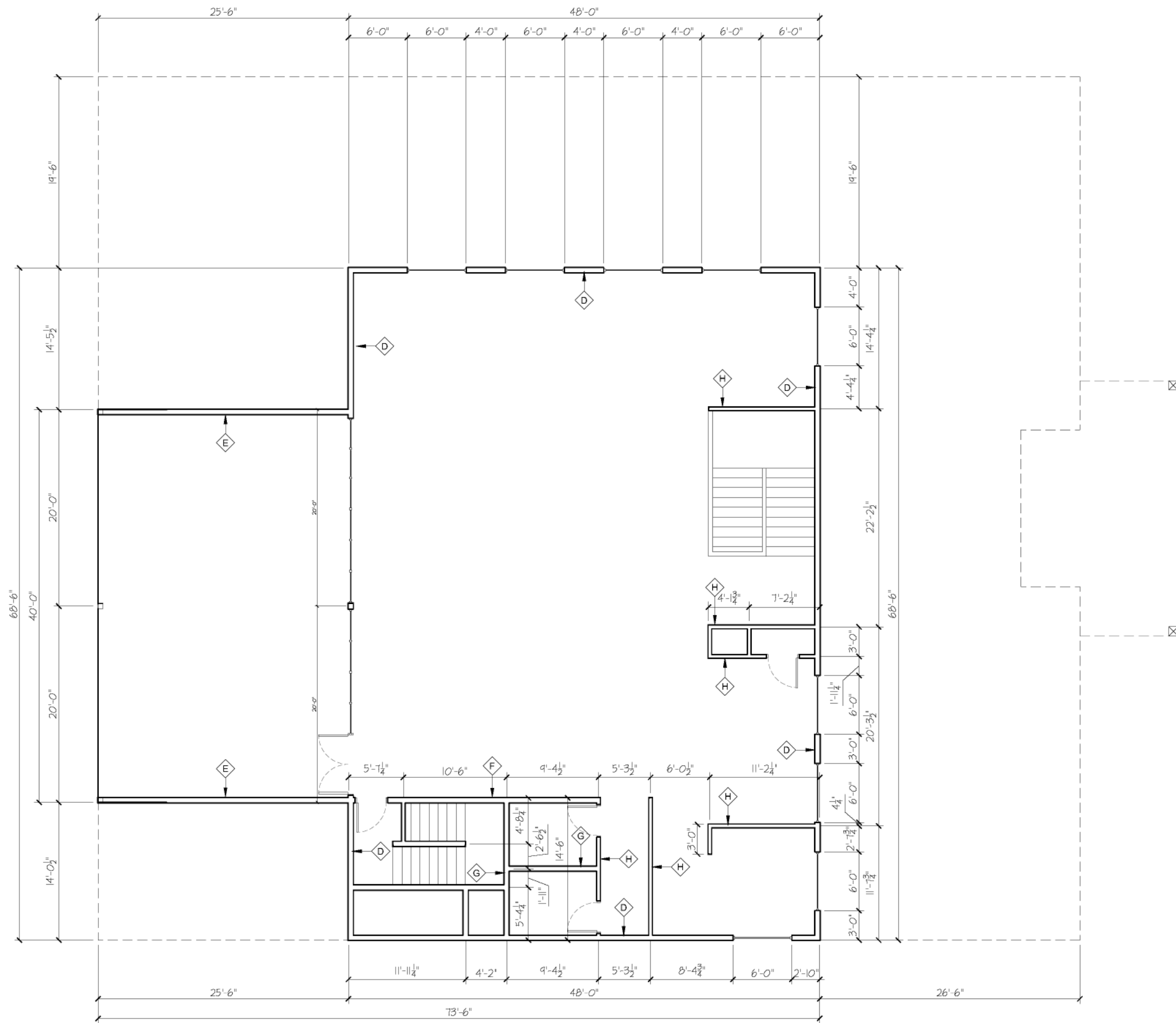
SCALE: 3/16"=1'-0"

SHEET TITLE

SECOND FLOOR
PLAN FOR
DEVELOPMENT
PLAN

SHEET NO.

A1.2



SECOND FLOOR DIMENSION PLAN

WALL TYPE	
A	8" CMU BLOCK WALL, 12'-0" TALL, SPLIT FACE EXTERIOR w/ 2x FIRRING STRIPS WITH 1/2" GYPSUM BOARD INTERIOR SIDE
B	6" POURED IN PLACE CONCRETE WALL, 12'-0" TALL, EXPOSED ON BOTH SIDES FOR VISUAL EFFECT
C	6" POURED IN PLACE CONCRETE WALL, 12'-0" TALL, EXPOSED ON ONE SIDE FOR VISUAL EFFECT w/ 2x FIRRING STRIPS WITH 1/2" GYPSUM BOARD ON ONE SIDE
D	2x6 STUD WALL, SECOND FLOOR EXTERIOR, R-19, 12'-0" TALL
E	2x6 STUD WALL, SECOND FLOOR EXTERIOR, 5'-0" TALL
F	2x6 STUD STRUCTURAL WALL, R-19, 12'-0" TALL, CONNECT TO FRAMING
G	2x6 STUD PARTITION WALL, R-19, 14'-6" TALL, CONNECT TO FRAMING
H	2x4 STUD PARTITION WALL, R-15, 14'-6" TALL, CONNECT TO FRAMING

- DIMENSION NOTES**
- INTERIOR DIMENSION ON FIRST FLOOR MEASURE FROM INSIDE FACE OF EXTERIOR CMU BLOCK WALL TO CENTER OF INTERIOR STUD WALL.
 - INTERIOR DIMENSIONS ON SECOND FLOOR MEASURE FROM OUTSIDE EDGE OF EXTERIOR STUD WALL TO CENTER OF INTERIOR STUD WALL.

PROJECT DATA	
SITE ADDRESS 26501 MADISON AVE MURRIETA, CA 92562	
OWNER W M LYLES CO 42142 ROICK DR TEMEGULA, CA 92590 (951) 672-7893	
APPLICANT (AGENT FOR OWNER & EXHIBIT PREPARER) DAVE HENRIKSON HENRIKSON BUILDING DESIGN 33175 TEMEGULA PARKWAY #A218 TEMEGULA, CA 92592 (951) 764-2302	
LEGAL DESCRIPTION A.P.N.: 910-230-003 REG BOOK/PAGE PM 20/50 SUBDIVISION PM 1065 LOT 2	
BUILDING DATA	
DEVELOPMENT PERMIT No ZONING DESIGNATION BP -BUSINESS PARK GENERAL PLAN DESIGNATION BP -BUSINESS PARK EXISTING LAND USE VACANT TOTAL SITE AREA (GROSS) 234.331 SF 5.83 AC TOTAL BUILDING AREA (PROPOSED) OFFICE BUILDING 11,706 SF WAREHOUSE 4,980 SF TOTAL 16,686 SF	
FLOOR AREA RATIO (F.A.R.) 0.01 FLOOR AREA RATIO ALLOWED 0.	
LANDSCAPED AREA 36,000 SF	
LANDSCAPE AREA REQUIRED (15%) 35,550 SF	
NUMBER OF STORIES 2 ABOVE GRADE	
BUILDING HEIGHT 21'-0" MAX BUILDING HEIGHT ALLOWED 50'-0" MAX	
TYPE OF CONSTRUCTION TYPE V-NR, B (BUSINESS) OCCUPANCY CLASSIFICATION S1 (WAREHOUSE)	
FIRE SPRINKLERS YES, MONITORED	

REVISIONS

SHAUNEEN N. O'BRIEN
C-25802
EXP. 3-31-25
STATE OF CALIFORNIA

henrikson

BUILDING DESIGN

DAVE HENRIKSON PRINCIPAL DESIGNER
33175 TEMEGULA PARKWAY #A218
TEMEGULA, CA 92592
(951) 764-2302
e-mail: davehen-bd.com

YOUNGREN CONSTRUCTION INC.

GENERAL CONTRACTING, DESIGN, REMODELING
443 East Avenida Street, Fallbrook, CA 92028
760 728 9874 office 760 728 0265 fax Lic# 784858
www.youngrenconstruction.com

PROJECT NAME

DEVELOPMETN PLAN
W M LYLES
26291 MADISON
MURRIETA, CA 92562

JOB NO.

19-12

DATE

3/02/2020

DESIGNER

DWH

CHECKED

DWH

SCALE

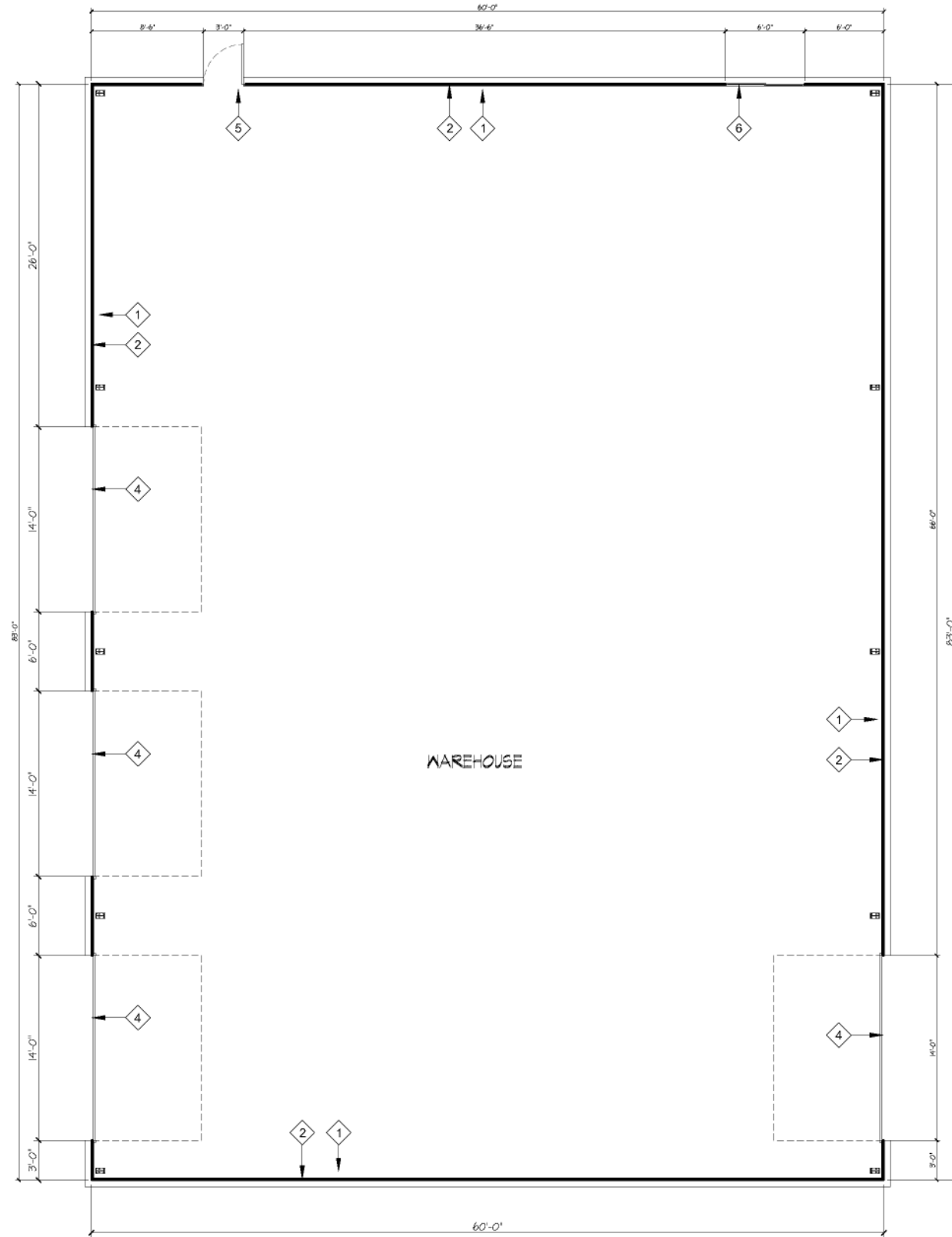
3/16"=1'-0"

SHEET TITLE

SECOND FLOOR
DIMENSION PLAN
FOR
DEVELOPMENT
PLAN

SHEET NO.

A1.4



WAREHOUSE FLOOR PLAN

WAREHOUSE 4,980 SF

WAREHOUSE KEYNOTES

- 1 8" CMU BLOCK WALL, 3'-0" TALL, SPLIT FACE EXTERIOR
- 2 METAL WALL
- 3 METAL ROOF
- 4 16' TALL ROLL UP DOOR
- 5 36' WIDE DOOR
- 6 6' WIDE WINDOW

PROJECT DATA

SITE ADDRESS

26501 MADISON AVE
MURRIETA, CA 92562

OWNER

W M LYLES CO
42142 ROCK DR
TEMEGULA, CA 92590
(951) 412-7593

APPLICANT (AGENT FOR OWNER & EXHIBIT PREPARER)

DAVE HENRIKSON
HENRIKSON BUILDING DESIGN
33115 TEMEGULA PARKWAY #A218
TEMEGULA, CA 92592
(951) 764-2302

LEGAL DESCRIPTION

APN: 910-230-003
REG BOOK/PAGE PM 20/50
SUBDIVISION PM 1065
LOT 2

BUILDING DATA

DEVELOPMENT PERMIT No

ZONING DESIGNATION	BP -BUSINESS PARK
GENERAL PLAN DESIGNATION	BP -BUSINESS PARK
EXISTING LAND USE	VACANT
TOTAL SITE AREA (GROSS)	234.331 SF 5.83 AC
TOTAL BUILDING AREA (PROPOSED)	
OFFICE BUILDING	11,706 SF
WAREHOUSE	4,980 SF
TOTAL	16,686 SF

FLOOR AREA RATIO (F.A.R.) 0.01

LANDSCAPED AREA 36,000 SF

LANDSCAPE AREA REQUIRED (15%) 35,550 SF

NUMBER OF STORIES 2 ABOVE GRADE

BUILDING HEIGHT 21'-0" MAX

BUILDING HEIGHT ALLOWED 50'-0" MAX

TYPE OF CONSTRUCTION TYPE V-NR,

OCCUPANCY CLASSIFICATION B (BUSINESS)

FIRE SPRINKLERS 51 (WAREHOUSE)

YES, MONITORED

REVISIONS



PROJECT NAME
**DEVELOPMETN PLAN
W M LYLES
26281 MADISON
MURRIETA, CA 92562**

JOB NO: 19-12

DATE: 3/02/2020

DESIGNER: DWH

CHECKED: DWH

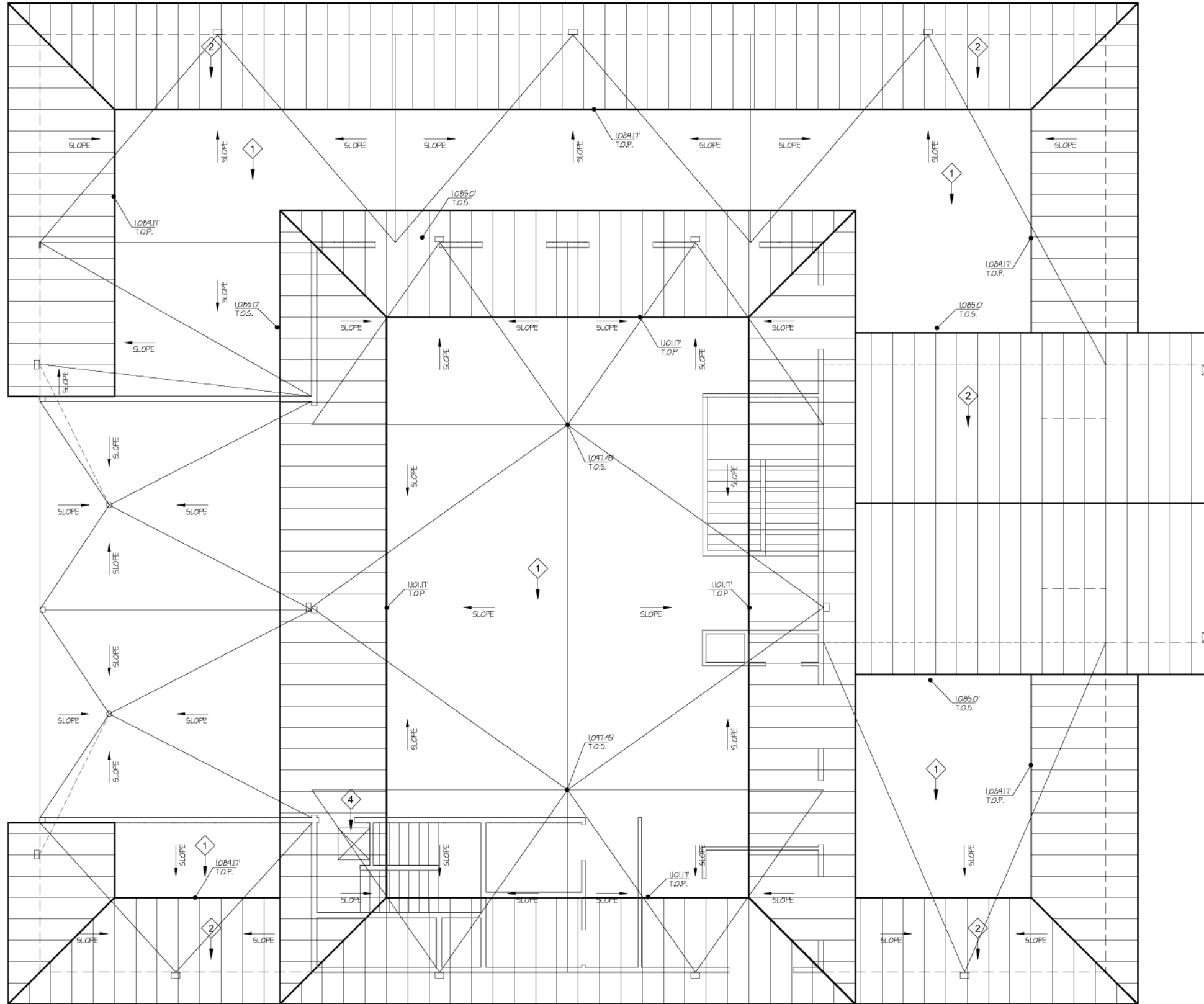
SCALE: 3/16"=1'-0"

SHEET TITLE

WAREHOUSE
PLAN FOR
DEVELOPMENT
PLAN

SHEET NO.

A1.5



ROOF PLAN

ROOF KEYNOTES

- 1 MIN CLASS "A" 4-PLY ROOF w/ MINERAL CAP SHEET
- 2 METAL STANDING SEAM ROOFING
- 3 ROOF & OVERFLOW DRAINS
- 4 ROOF HATCH
- 5 42 INCH TALL GUARDRAIL WHERE BUILDING PARAPET DOES NOT MEET OR EXCEED 42 INCHES IN HEIGHT WHERE APPLIANCES, MECHANICAL EQUIPMENT, FANS, ROOF HATCH OPENINGS OR OTHER COMPONENTS THAT REQUIRE SERVICE ARE LOCATED WITHIN 10 FEET OF A ROOF EDGE OR OPEN SIDE OF WALKING SURFACE.

ROOF NOTES

- 1. ROOF HEIGHTS ARE GIVEN ABOVE FIRST FLOOR FINISH FLOOR ELEVATIONS

ROOF PLAN LEGEND

- 0'-0" T.O.S. ROOF ELEVATION - FINISH FLOOR TO TOP OF FLYWOOD
- 0'-0" T.O.P. TOP OF PARAPET ELEVATION - FINISH FLOOR TO TOP OF PARAPET
- 1/4" / FT ROOF SLOPE FLOW LINE

PROJECT DATA

SITE ADDRESS
26501 MADISON AVE
MURRIETA, CA 92562

OWNER
W M LYLES CO
42142 ROICK DR
TEMEGULA, CA 92590
(951) 412-7593

APPLICANT (AGENT FOR OWNER & EXHIBIT PREPARER)

DAVE HENRIKSON
HENRIKSON BUILDING DESIGN
33115 TEMEGULA PARKWAY #A218
TEMEGULA, CA 92592
(951) 764-2302

LEGAL DESCRIPTION

A.P.N.: 910-230-003
REG BOOK/PAGE PM 20/50
SUBDIVISION PM 1065
LOT 2

BUILDING DATA

DEVELOPMENT PERMIT No

ZONING DESIGNATION	BP -BUSINESS PARK
GENERAL PLAN DESIGNATION	BP -BUSINESS PARK
EXISTING LAND USE	VACANT
TOTAL SITE AREA (GROSS)	234.331 SF 5.83 AC
TOTAL BUILDING AREA (PROPOSED)	
OFFICE BUILDING	11,706 SF
WAREHOUSE	4,980 SF
TOTAL	16,686 SF

FLOOR AREA RATIO (F.A.R.) 0.01
FLOOR AREA RATIO ALLOWED 0.

LANDSCAPED AREA 36,000 SF

LANDSCAPE AREA REQUIRED (15%) 35,550 SF

NUMBER OF STORIES 2 ABOVE GRADE

BUILDING HEIGHT 21'-0" MAX

BUILDING HEIGHT ALLOWED 50'-0" MAX

TYPE OF CONSTRUCTION TYPE V-NR,
B (BUSINESS)

OCCUPANCY CLASSIFICATION 51 (WAREHOUSE)

FIRE SPRINKLERS YES, MONITORED

REVISIONS



henrikson
BUILDING DESIGN
DAVE HENRIKSON, PRINCIPAL DESIGNER
33115 TEMEGULA PARKWAY #A218
TEMEGULA, CA 92592
(951) 764-2302
e-mail: davehen-bd.com

YOUNGREN CONSTRUCTION INC.
GENERAL CONTRACTING, DESIGN, REMODELING
443 East Avenida Street, Fallbrook, CA 92028
760 728 9874 office 760 728 0268 fax 760 784858
www.youngrenconstruction.com

PROJECT NAME
**DEVELOPMETN PLAN
W M LYLES
26291 MADISON
MURRIETA, CA 92562**

JOB NO: 19-12

DATE: 3/02/2020

DESIGNER: DKH

CHECKED: DKH

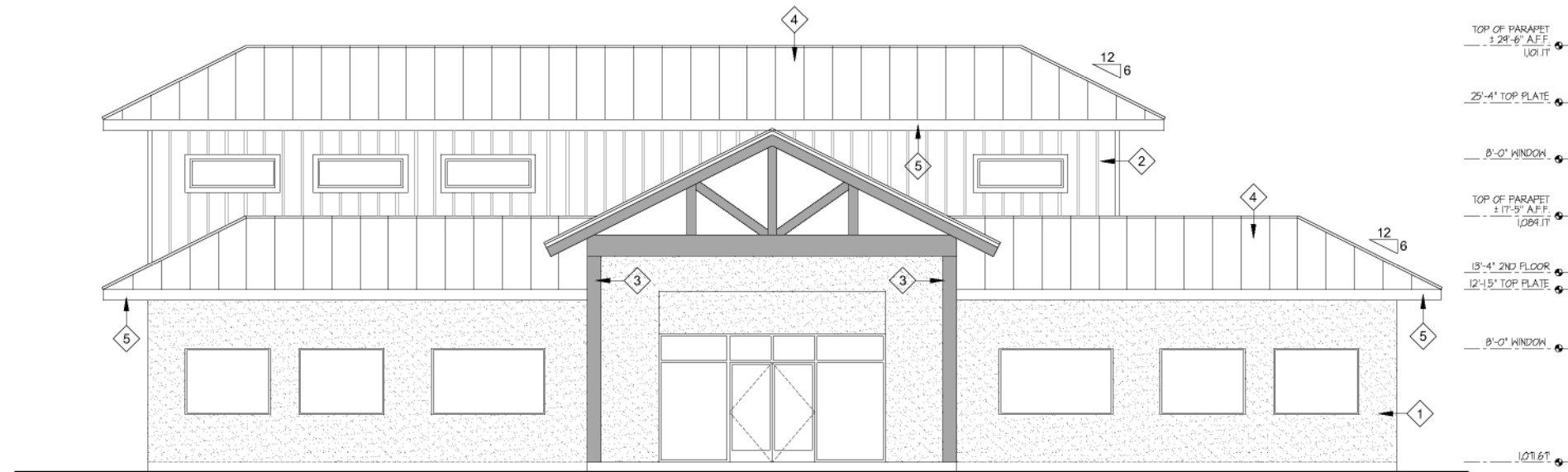
SCALE: 3/16"=1'-0"

SHEET TITLE

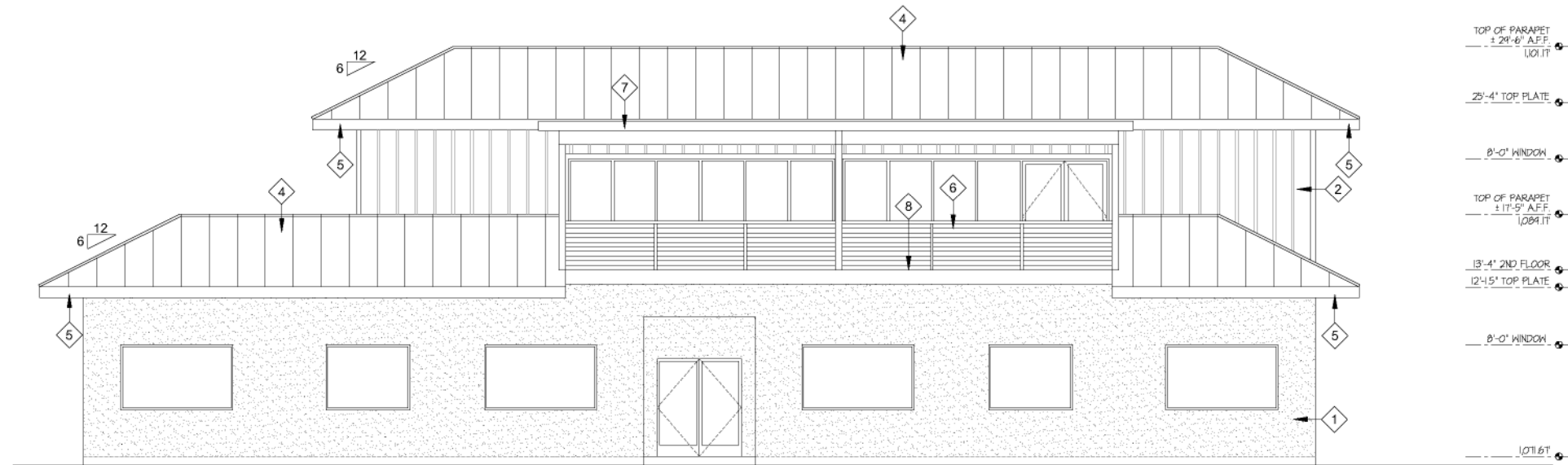
ROOF PLAN
FOR
DEVELOPMENT
PLAN

SHEET NO.

A2.1



FRONT ELEVATION



REAR ELEVATION

ELEVATION KEYNOTES

- 1 SPLIT FACED CMU BLOCK WALL
- 2 HARDE-SIDING CEDAR MILL PANEL WITH HARDE-TRIM @24" OC
- 3 6"x6" TUBE STEEL POST WITH WOOD WRAP
- 4 METAL STANDING SEAM ROOFING
- 5 WOOD TRIM FASCIA
- 6 42" HIGH GUARDRAIL
- 7 HEAVY TIMBER LATTICE PATIO COVER
- 8 ELASTOMERIC MEMBRANE OVER PLYWOOD SUBFLOOR
- 9
- 10
- 11

REVISIONS



henrikson
BUILDING DESIGN
DAVE HENRIKSON, PRINCIPAL DESIGNER
33115 TEMEGULA PARKWAY #A218
TEMEGULA, CA 92592
(951) 764-2302
e-mail: dave@hen-bdl.com

YOUNGREN CONSTRUCTION INC.
GENERAL CONTRACTING, DESIGN, REMODELING
443 East Alvarado Street, Fallbrook, CA 92028
760 728 9874 office 760 728 0268 fax 760 784858
www.youngrenconstruction.com

PROJECT DATA
SITE ADDRESS

26501 MADISON AVE
MURRIETA, CA 92562

OWNER
W M LYLES CO
42142 ROICK DR
TEMEGULA, CA 92590
(951) 972-7593

APPLICANT (AGENT FOR OWNER & EXHIBIT PREPARER)

DAVE HENRIKSON
HENRIKSON BUILDING DESIGN
33115 TEMEGULA PARKWAY #A218
TEMEGULA, CA 92592
(951) 764-2302

LEGAL DESCRIPTION

A.P.N.: 910-230-003
REG BOOK/PAGE PM 20/50
SUBDIVISION PM 1065
LOT 2

BUILDING DATA

DEVELOPMENT PERMIT No

ZONING DESIGNATION	BP -BUSINESS PARK
GENERAL PLAN DESIGNATION	BP -BUSINESS PARK
EXISTING LAND USE	VACANT
TOTAL SITE AREA (GROSS)	234.331 5F 5.83 AC
TOTAL BUILDING AREA (PROPOSED)	
OFFICE BUILDING	11,706 5F
WAREHOUSE	4,980 5F
TOTAL	16,686 5F

FLOOR AREA RATIO (F.A.R.) 0.01
FLOOR AREA RATIO ALLOWED 0.

LANDSCAPED AREA 36,000 SF

LANDSCAPE AREA REQUIRED (15%) 35,550 SF

NUMBER OF STORIES 2 ABOVE GRADE

BUILDING HEIGHT 21'-0" MAX
BUILDING HEIGHT ALLOWED 50'-0" MAX

TYPE OF CONSTRUCTION TYPE V-NR,
B (BUSINESS)
OCCUPANCY CLASSIFICATION 51 (WAREHOUSE)

FIRE SPRINKLERS YES, MONITORED

PROJECT NAME
**DEVELOPMETN PLAN
W M LYLES
26281 MADISON
MURRIETA, CA 92562**

JOB NO: 19-12

DATE: 3/02/2020

DESIGNER: DWH

CHECKED: DWH

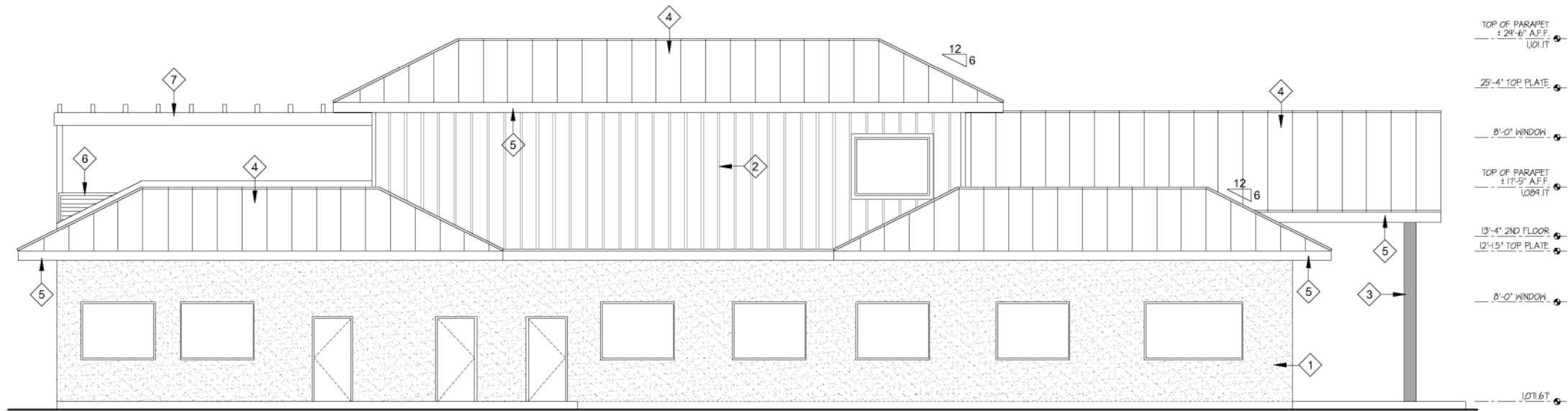
SCALE: 3/16"=1'-0"

SHEET TITLE

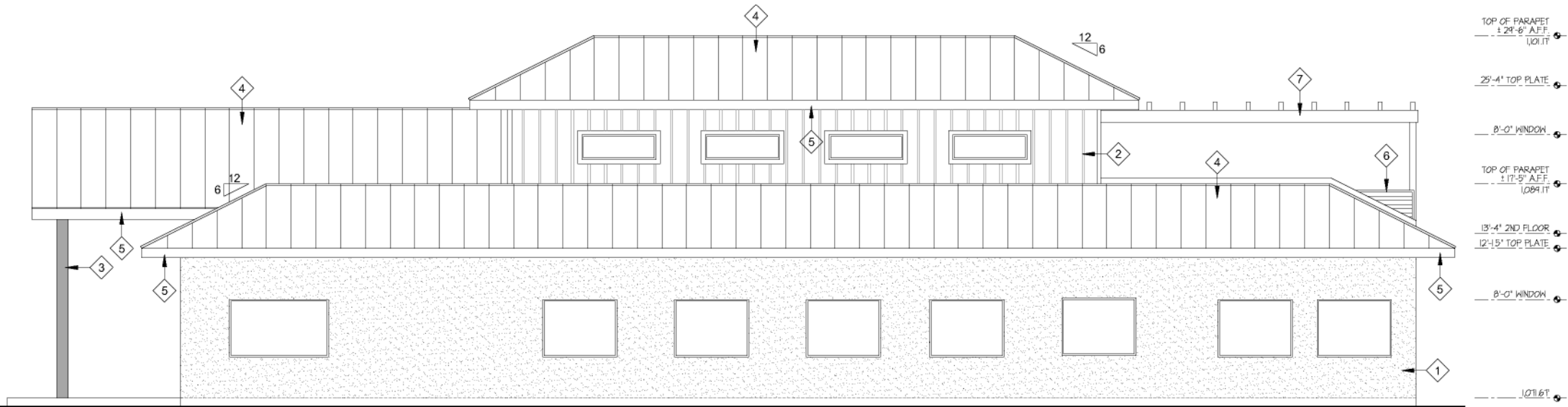
ELEVATIONS
FOR
DEVELOPMENT
PLAN

SHEET NO.

A3.1



LEFT ELEVATION



RIGHT ELEVATION

ELEVATION KEYNOTES

1. SPLIT FACED CMU BLOCK WALL
2. HARDIE-SIDING CEDAR MILL PANEL WITH HARDIE-TRIM @24" OC
3. 6"x6" TUBE STEEL POST WITH WOOD WRAP
4. METAL STANDING SEAM ROOFING
5. WOOD TRIM FASCIA
6. 42" HIGH GUARDRAIL
7. HEAVY TIMBER LATTICE PATIO COVER
8. ELASTOMERIC MEMBRANE OVER PLYWOOD SUBFLOOR
- 9.
- 10.
- 11.

REVISIONS



henrikson
BUILDING DESIGN
DAVE HENRIKSON, PRINCIPAL DESIGNER
33115 TEMEGULA PARKWAY #A210
TEMEGULA, CA 92592
(951) 764-2302
e-mail: dave@hen-bdl.com

YOUNGREN CONSTRUCTION INC.
GENERAL CONTRACTING, DESIGN, REMODELING
443 East Avenida Street, Fairbrook, CA 90028
760 728 9874 office 760 728 0268 fax 760 784858
www.youngrenconstruction.com

PROJECT DATA

SITE ADDRESS
26501 MADISON AVE
MURRIETA, CA 92562

OWNER
W M LYLES CO
42142 ROICK DR
TEMEGULA, CA 92590
(951) 412-7593

APPLICANT (AGENT FOR OWNER & EXHIBIT PREPARER)
DAVE HENRIKSON
HENRIKSON BUILDING DESIGN
33115 TEMEGULA PARKWAY #A210
TEMEGULA, CA 92592
(951) 764-2302

LEGAL DESCRIPTION

A.P.N.: 910-230-003
REG BOOK/PAGE PM 20/50
SUBDIVISION PM 1065
LOT 2

BUILDING DATA

DEVELOPMENT PERMIT No

ZONING DESIGNATION	BP -BUSINESS PARK	
GENERAL PLAN DESIGNATION	BP -BUSINESS PARK	
EXISTING LAND USE	VACANT	
TOTAL SITE AREA (GROSS)	234.331	5F 5.83 AC
TOTAL BUILDING AREA (PROPOSED)		
OFFICE BUILDING	11,706	5F
WAREHOUSE	4,980	5F
TOTAL	16,686	5F

FLOOR AREA RATIO (F.A.R.) 0.01
FLOOR AREA RATIO ALLOWED 0.

LANDSCAPED AREA 36,000 SF

LANDSCAPE AREA REQUIRED (15%) 35,550 SF

NUMBER OF STORIES 2 ABOVE GRADE

BUILDING HEIGHT 21'-0" MAX

BUILDING HEIGHT ALLOWED 50'-0" MAX

TYPE OF CONSTRUCTION TYPE V-NR,

B (BUSINESS)

51 (WAREHOUSE)

FIRE SPRINKLERS YES, MONITORED

PROJECT NAME
DEVELOPMENT PLAN
W M LYLES
26291 MADISON
MURRIETA, CA 92562

JOB NO: 19-12

DATE: 3/02/2020

DESIGNER: DKH

CHECKED: DKH

SCALE: 3/16"=1'-0"

SHEET TITLE

ELEVATIONS

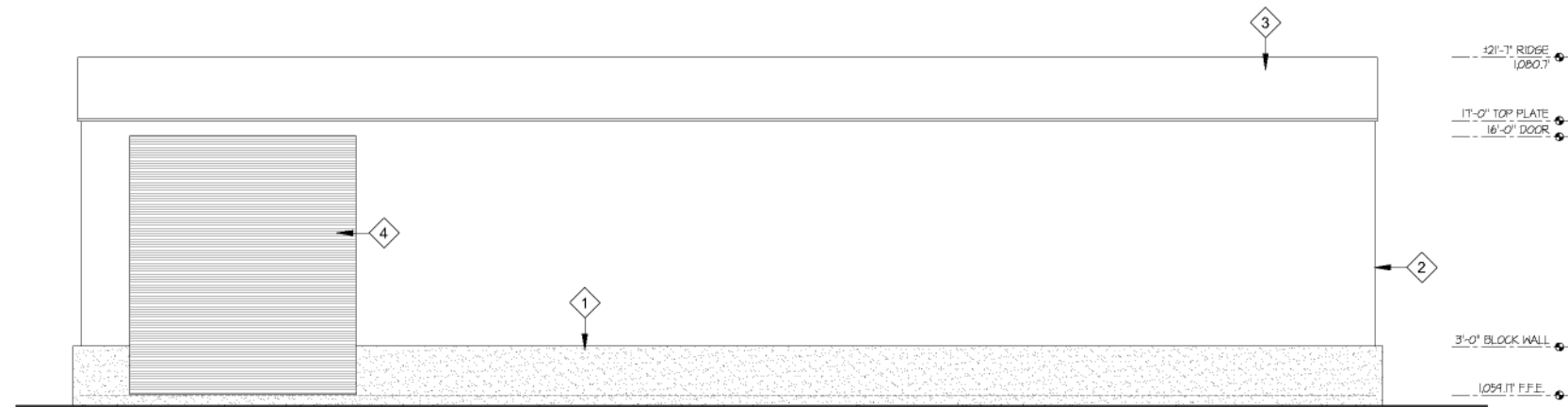
FOR

DEVELOPMENT

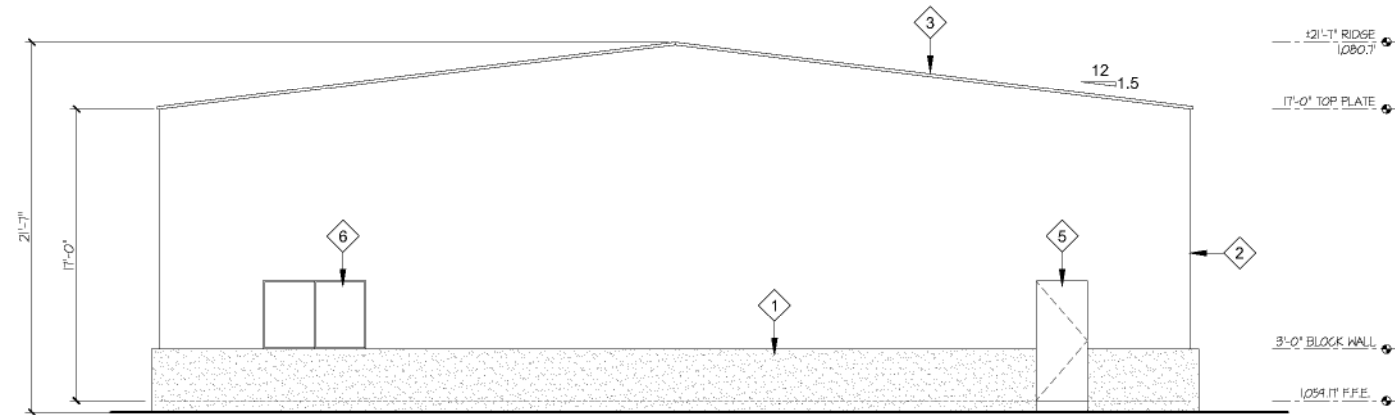
PLAN

SHEET NO.

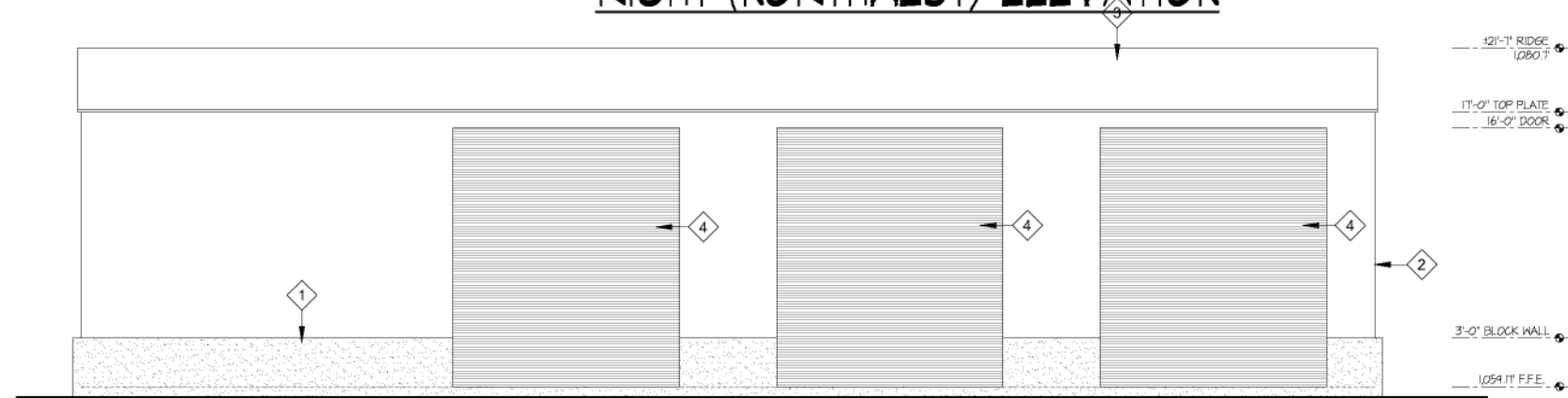
A3.2



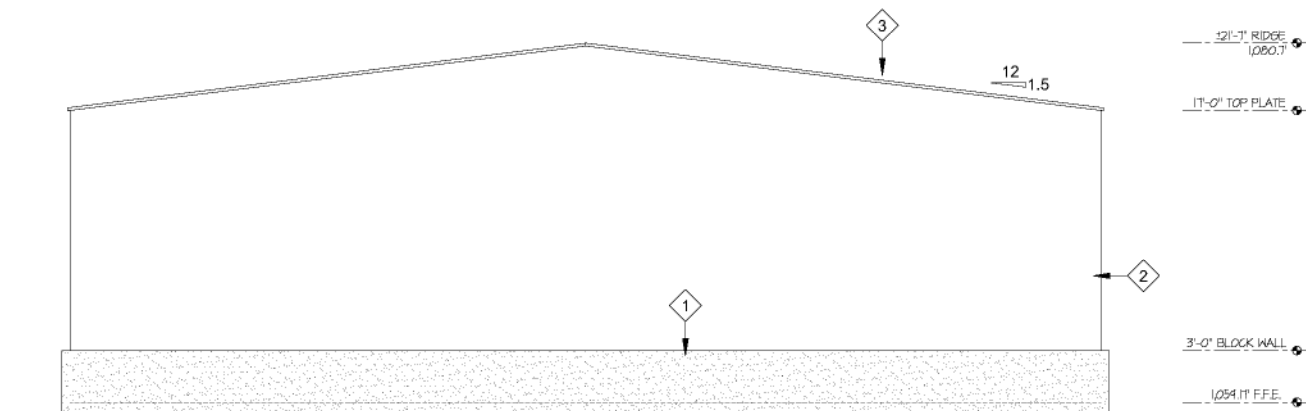
FRONT (NORTHEAST) ELEVATION



RIGHT (NORTHWEST) ELEVATION



REAR (SOUTHWEST) ELEVATION



LEFT (SOUTHEAST) ELEVATION

WAREHOUSE KEYNOTES

- 1 8" CMU BLOCK WALL, 3'-0" TALL, SPLIT FACE EXTERIOR
- 2 METAL WALL
- 3 METAL ROOF
- 4 16' TALL ROLL UP DOOR
- 5 36" WIDE DOOR
- 6 6' WIDE WINDOW

REVISIONS



henrikson
BUILDING DESIGN
DAVE HENRIKSON - PRINCIPAL DESIGNER
33115 TEMEGULA PARKWAY #A218
TEMEGULA, CA 92592
(951) 764-2302
e-mail: davehen-bd1.com

YOUNGREN CONSTRUCTION INC.
GENERAL CONTRACTING, DESIGN, REMODELING
443 East Alvarado Street, Fallbrook, CA 92028
760.728.9874 office 760.728.0268 fax 760.784858
www.youngrenconstruction.com

PROJECT DATA
SITE ADDRESS

26501 MADISON AVE
MURRIETA, CA 92562

OWNER
W M LYLES CO
42142 ROLCK DR
TEMEGULA, CA 92590
(951) 472-7893

APPLICANT (AGENT FOR OWNER & EXHIBIT PREPARER)

DAVE HENRIKSON
HENRIKSON BUILDING DESIGN
33115 TEMEGULA PARKWAY #A218
TEMEGULA, CA 92592
(951) 764-2302

LEGAL DESCRIPTION

A.P.N.: 910-230-003
REG BOOK/PAGE PM 20/50
SUBDIVISION PM 1065
LOT 2

BUILDING DATA

DEVELOPMENT PERMIT No

ZONING DESIGNATION	BP -BUSINESS PARK
GENERAL PLAN DESIGNATION	BP -BUSINESS PARK
EXISTING LAND USE	VACANT
TOTAL SITE AREA (GROSS)	234.331 SF 5.83 AC
TOTAL BUILDING AREA (PROPOSED)	
OFFICE BUILDING	11,706 SF
WAREHOUSE	4,980 SF
TOTAL	16,686 SF

FLOOR AREA RATIO (F.A.R.) 0.01
FLOOR AREA RATIO ALLOWED 0.

LANDSCAPED AREA 36,000 SF

LANDSCAPE AREA REQUIRED (15%) 35,550 SF

NUMBER OF STORIES 2 ABOVE GRADE

BUILDING HEIGHT 21'-0" MAX
BUILDING HEIGHT ALLOWED 50'-0" MAX

TYPE OF CONSTRUCTION TYPE V-NR,
B (BUSINESS)
51 (WAREHOUSE)

FIRE SPRINKLERS YES, MONITORED

PROJECT NAME
**DEVELOPMETN PLAN
W M LYLES
26281 MADISON
MURRIETA, CA 92562**

JOB NO: 19-12

DATE: 3/02/2020

DESIGNER: DKH

CHECKED: DKH

SCALE: 3/16"=1'-0"

SHEET TITLE

WAREHOUSE
ELEVATIONS
FOR
DEVELOPMENT
PLAN

SHEET NO.

A3.3

APPENDIX B

Applicable Noise Regulations

Table 11-3
City of Murrieta Construction Noise Standards

Equipment Type	Single-Family Residential	Multi-Family Residential	Commercial
Mobile Equipment			
Daily, except Sundays and holidays, 7:00 AM to 8:00 PM	75 dBA	80 dBA	85 dBA
Daily, except Sundays and holidays, 8:00 PM to 7:00 AM	60 dBA	64 dBA	70 dBA
Stationary Equipment			
Daily, except Sundays and holidays, 7:00 AM to 8:00 PM	60 dBA	65 dBA	70 dBA
Daily, except Sundays and holidays, 8:00 PM to 7:00 AM	50 dBA	55 dBA	60 dBA
Source: City of Murrieta, <i>City of Murrieta Development Code Section 16.30.130</i> .			

- **Operational Noise.** Within the City of Murrieta, the *Noise Ordinance* governs operational noise generated between two properties and does not regulate noise from transportation sources, such as traffic, aircraft, and railways. Section 16.30.090 of the *Noise Ordinance* establishes the exterior noise standards for all receptor properties within a designated noise zone. The City's exterior noise level limits between properties are presented in Table 11-4, City of Murrieta Exterior and Interior Noise Limits.

Table 11-4
City of Murrieta Exterior and Interior Noise Limits

Noise Zone	Land Use (Receptor Property)	Time Period	Allowed Exterior Noise Level (dBA)
Exterior Noise Limits			
I	Noise-sensitive area	Anytime	45
II	Residential properties	10:00 PM to 7:00 AM	45
		7:00 AM to 10:00 PM	50
	Residential properties within 500 feet of a kennel(s)	7:00 AM to 10:00 PM	70
III	Commercial properties	10:00 PM to 7:00 AM	55
		7:00 AM to 10:00 PM	60
IV	Industrial properties	Anytime	70
Interior Noise Limits			
All noise zones	Multi-family residential	10:00 PM to 7:00 AM	40
		7:00 AM to 10:00 PM	45
Source: City of Murrieta, <i>City of Murrieta Development Code Section 16.30.090</i> .			



C. Interior Noise. Interior noise measurements shall be made within the affected residential unit. The measurements shall be made at a point at least four feet from the wall, ceiling or floor nearest the noise source, with windows in the normal seasonal configuration.

(Ord. 182 § 2 (part), 1997)

16.30.130 Acts Deemed Violations of Chapter.

The following acts are a violation of this chapter.

A. Construction Noise.

1. Operating or causing the operation of tools or equipment used in construction, drilling, repair, alteration, or demolition work between weekday hours of eight p.m. and seven a.m., or at any time on Sundays or holidays so that the sound creates a noise disturbance across a residential or commercial property line, except for emergency work of public service utilities.

2. Construction activities shall be conducted in a manner that the maximum noise levels at the affected structures will not exceed those listed in the following schedule:

a. Residential Structures:

1) **Mobile Equipment.** Maximum noise levels for nonscheduled, intermittent, short-term operation (less than ten days) of mobile equipment:

	Single-family Residential	Multi-family Residential	Commercial
Daily, except Sundays and legal holidays, 7:00 a.m. to 8:00 p.m.	75 dBA	80 dBA	85 dBA
Daily, 8:00 p.m. to 7:00 a.m. and all day Sunday and legal holidays	60 dBA	64 dBA	70 dBA

2) **Stationary Equipment.** Maximum noise level for repetitively scheduled and relatively long-term operation periods (three days or more) of stationary equipment:

	Single-family Residential	Multi-family Residential	Commercial
Daily, except Sundays and legal holidays, 7:00 a.m. to 8:00 p.m.	60 dBA	65 dBA	70 dBA
Daily, 8:00 p.m. to 7:00 a.m. and all day Sunday and legal holidays	50 dBA	55 dBA	60 dBA

b. **Business Structures.** Maximum noise levels for nonscheduled, intermittent, short-term operation of mobile equipment: daily, including Sundays and legal holidays, all hours: maximum of eighty-five (85) dBA.

3. All mobile or stationary internal combustion engine powered equipment or machinery shall be equipped with suitable exhaust and air-intake silencers in proper working order.

B. Loading and Unloading Operations. Loading, unloading, opening, closing or other handling of boxes, crates, containers, building materials, garbage cans or similar objects between



6.0 MSHCP Implementation Structure

➤ Toxics

Land uses proposed in proximity to the MSHCP Conservation Area that use chemicals or generate bioproducts such as manure that are potentially toxic or may adversely affect wildlife species, Habitat or water quality shall incorporate measures to ensure that application of such chemicals does not result in discharge to the MSHCP Conservation Area. Measures such as those employed to address drainage issues shall be implemented.

➤ Lighting

Night lighting shall be directed away from the MSHCP Conservation Area to protect species within the MSHCP Conservation Area from direct night lighting. Shielding shall be incorporated in project designs to ensure ambient lighting in the MSHCP Conservation Area is not increased.

➤ Noise

Proposed noise generating land uses affecting the MSHCP Conservation Area shall incorporate setbacks, berms or walls to minimize the effects of noise on MSHCP Conservation Area resources pursuant to applicable rules, regulations and guidelines related to land use noise standards. For planning purposes, wildlife within the MSHCP Conservation Area should not be subject to noise that would exceed residential noise standards.

➤ Invasives

When approving landscape plans for Development that is proposed adjacent to the MSHCP Conservation Area, Permittees shall consider the invasive, non-native plant species listed in *Table 6-2* and shall require revisions to landscape plans (subject to the limitations of their jurisdiction) to avoid the use of invasive species for the portions of Development that are adjacent to the MSHCP Conservation Area. Considerations in reviewing the applicability of this list shall include proximity of planting areas to the MSHCP Conservation Areas, species considered in the planting plans, resources being protected within the MSHCP Conservation Area and their relative sensitivity to invasion, and barriers to plant and seed dispersal, such as walls, topography and other features.

APPENDIX C

Manufacturer Data Sheets

Job Name:

Schedule Reference:

Date:

OUTDOOR VRF HEAT PUMP WITH
HEAT RECOVERY SYSTEM

ACCESSORIES

(1)* = Brazed type

- ☐ BC Controller CMB-P104/105/106/108/1010/1013/1016NU-G(1)*
☐ BC Controller Main CMB-P108/1010/1013/16NU-GA(1)*
☐ BC Controller Main CMB-P108/1010NU-HA1* / 16NU-HA(1)*
☐ BC Controller Sub CMB-P104/108NU-GB(1)* / 1016NU-HB1(1)*
☐ Joint Adapter (Port Connector > 54,000 Btu/h) CMY-R160C-J(1)*

☐ T-Branch Joint (≤ 72,000 Btu/h) CMY-Y102SS-G2
☐ T-Branch Joint (73,000 - 144,000 Btu/h) CMY-Y102LS-G2

UNIT OPTION

- ☐ Standard Model PURY-P120ZKMU-A
☐ Seacoast (BS) Model PURY-P120ZKMU-A-BS

*** All electrical work shall comply with National (CEC) and local codes and regulations.**

Specifications		Model Name
Unit Type		PURY-P120ZKMU-A (-BS)
Nominal Cooling Capacity (575V)	Btu/h	120,000
Nominal Heating Capacity (575V)	Btu/h	135,000
Operating Temperature Range	Cooling (Outdoor)	23~115° F (-5~46° C) DB
	Heating (Outdoor)	-4~60° F (-20~15.5° C) WB
External Dimensions (H x W x D)	In. (mm)	64-31/32 x 68-29/32 x 29-5/32 (1,650 x 1,750 x 740)
Net Weight	Lbs. (kg)	761 (345)
External Finish (+Powder coating for - BS type)		Pre-coated galvanized steel sheet - MUNSELL 5Y 8/1 or similar
Electrical Power Requirements	Voltage, Phase, Hertz	575V, 3-Phase, 60Hz
Minimum Circuit Ampacity (MCA) *	A	21
Maximum Overcurrent Protection (MOP)	A	30
Piping Diameter (Braze) (In. / mm)	Liquid (High Pressure)	3/4 (19.05)
	Gas (Low Pressure)	1-1/8 (28.58)
Max. Total Refrigerant Line Length	Ft.	1,969
Max. Refrigerant Line Length (Between ODU & IDU)	Ft.	541
Max. Control Wiring Length	Ft.	1,640
Indoor Unit	Total Capacity	50~150% of outdoor unit capacity
	Model / Quantity	P06~P96/1~30
Sound Pressure Levels	dB(A)	60.0
Fan		
Type x Quantity		Propeller fan x 2
Airflow Rat	CFM	11,300
External Static Pressure	In. WG	Selectable; 0, 0.12 or 0.24"WG; factory set to 0"W.G.
Compressor Operating Range		15% to 100%
Compressor Type x Quantity		Inverter scroll hermetic compressor
Refrigerant		R410A x 26 lbs + 1 oz (11.8 kg)
Protection Devices	High Pressure	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter Circuit (Comp. / Fan)	Over-current protection
	Fan Motor	Thermal switch
AHRI Ratings (Ducted/Non-Ducted)	EER	12.2/13.7
	IEER	19.5/23.3
	COP @ 47F - COP @ 17F	3.4/3.68 - 2.26/2.26
	SCHE	23.8/29.8
Heat Exchanger		Salt resistant cross fin & copper tube

Should this document be altered or changed without MESCA's permission, it becomes null and void. MESCA assumes no responsibility for any consequences in such cases.

Notes:

Note: Mitsubishi Electric (MESCA) supports the use of only MESCA supplied and approved Snow Guard / Wind Deflectors / Windscreens and accessories for proper functioning of the unit(s). Use of non-MESCA supported Snow Guard / Wind Deflectors / Windscreens and accessories will affect warranty coverage.



Module: PURY-P120ZKMU-A (-BS) - DIMENSIONS

Unit: mm (in.)

- <Accessories>
 • Connecting pip
 <Low pressure>
 • Elbow (ID ϕ 28.58(1-1/8) $\times$ OD ϕ 28.58(1-1/8)) ... P120,P144,P168 1pc.
 <High pressure>
 • Pipe (ID ϕ 25.4(1) $\times$ ID ϕ 19.05(3/4)) ... P120 1pc.
 • Pipe (ID ϕ 25.4(1) $\times$ OD ϕ 19.05(3/4)) ... P120 1pc.
 • Pipe (ID ϕ 25.4(1) $\times$ ID ϕ 22.2(7/8)) ... P144,P168 1pc.
 • Pipe (ID ϕ 25.4(1) $\times$ OD ϕ 22.2(7/8)) ... P144,P168 1pc.

Note1. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.

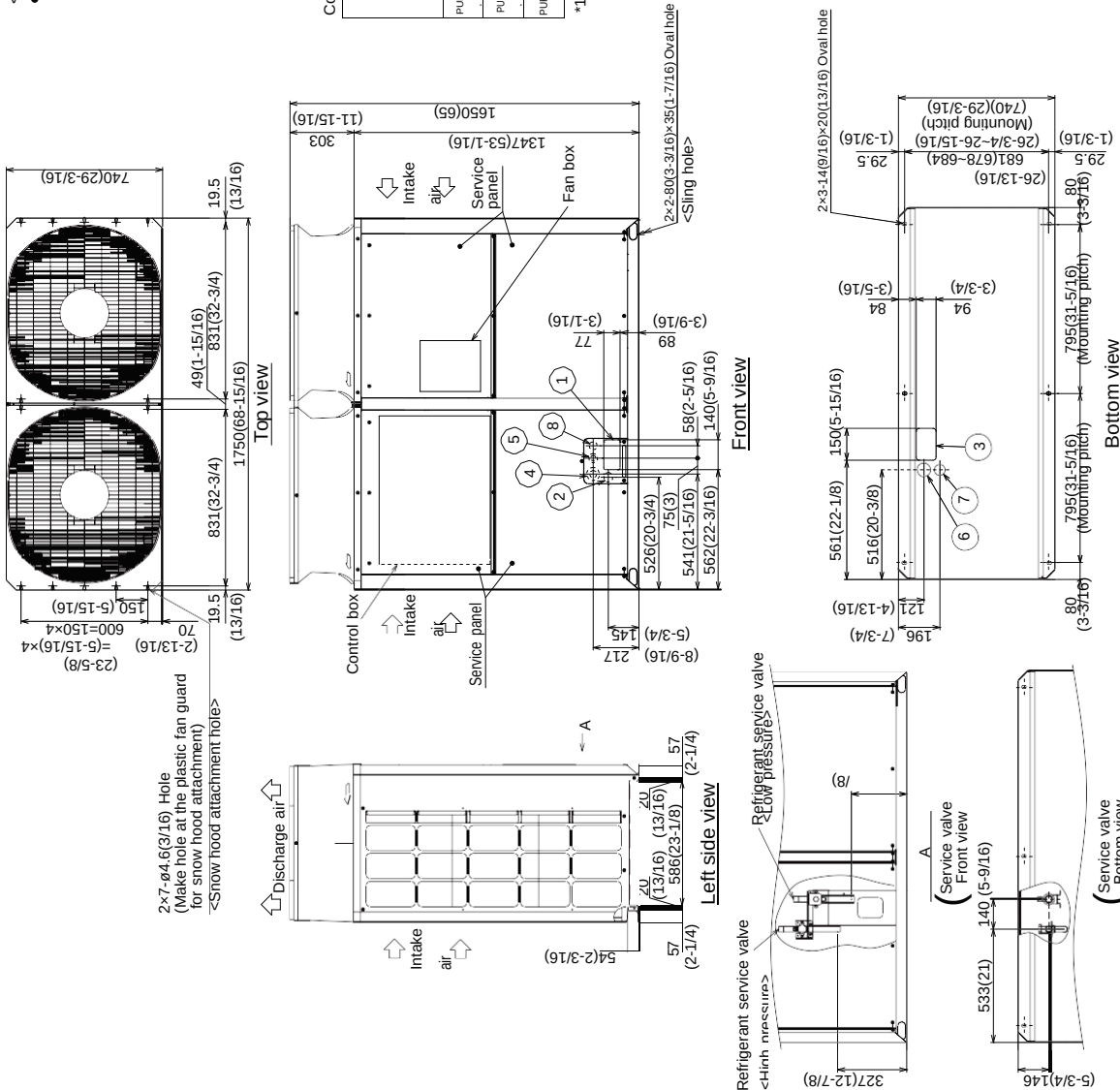
2. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C(248 °F).

Connecting pipe specifications

Model	Diameter			
	Refrigerant pipe	High pressure	Low pressure	Service valve
PURY-P120ZKMU-A	Ø19.05 Braze (3/4)"	Ø28.58 Braze (1-1/8)"	Ø25.4 (1)	Ø28.58 (1-1/8)
PURY-P144ZKMU-A	Ø22.2 Braze (7/8)"	Ø28.58 Braze (1-1/8)"	Ø25.4 (1)	Ø28.58 (1-1/8)
PURY-P168ZKMU-A	Ø22.2 Braze (7/8)"	Ø28.58 Braze (1-1/8)"	Ø25.4 (1)	Ø28.58 (1-1/8)

*1 Use the included connecting pipe and connect to the refrigerant service valve piping.

NO.	Usage	Specifications
①	Front through hole	140 × 77 Knockout hole (5-9/16)(3-1/16)
②	For pipes	Front through hole (Uses when wiring kit (optional parts) is mounted.) Ø45 Knockout hole (1-13/16)
③		Bottom through hole 150 × 94 Knockout hole (5-15/16)(3-3/4)
④		Front through hole Ø62.7 or Ø34.5 Knockout hole (2-1/2)(1-3/8)
⑤	For wires	Front through hole Ø43.7 or Ø22.2 Knockout hole (1-3/4)(7/8)
⑥		Bottom through hole Ø65 Knockout hole (2-9/16)
⑦		Bottom through hole Ø52 Knockout hole (2-1/16)
⑧	For transmission cables	Front through hole Ø34 Knockout hole (1-3/8)



Should this document be altered or changed without MESCA's permission, it becomes null and void. MESCA assumes no responsibility for any consequences in such cases.



for a greener tomorrow





Product Data

WeatherMaster® Packaged Rooftop Units 3 to 12.5 Nominal Tons



48HC Sizes 04 to 14
Packaged Rooftop Units with Gas Heat and Optional
EnergyX® Energy Recovery Ventilator

Model number nomenclature



48HC MODEL NUMBER NOMENCLATURE

48 HC D E 09 A 2 A 6 A 0 A 3 B 0

Unit Heat Type

48 - Gas Heat Packaged Rooftop

Model Series - WeatherMaster®

HC - High Efficiency

Heat Options

D = Low Gas Heat
E = Medium Gas Heat
F = High Gas Heat
L = Low NOx - Low Gas Heat
M = Low NOx - Medium Gas Heat
N = Low NOx - High Gas Heat
S = Low Heat w/ Stainless Steel Exchanger
R = Medium Heat w/ Stainless Steel Exchanger
T = High Heat w/ Stainless Steel Exchanger
(Low NOx models include - Stainless Steel HX)

Refrig. Systems Options

A = Single stage cooling models
B = Single stage cooling models with Humidi-MiZer®
D = Two stage cooling models
E = Two stage cooling models with Humidi-MiZer
F = Single stage cooling models with Motormaster® Low Ambient Controller
G = Two stage cooling models with Motormaster Low Ambient Controller

Cooling Tons

04 - 3 ton 09 - 8.5 ton
05 - 4 ton 11 - 10 ton (12.0 EER)*
06 - 5 ton 12 - 10 ton (11.5 EER)*
07 - 6 ton 14 - 12.5 ton
08 - 7.5 ton

Sensor Options

A = None
B = RA Smoke Detector
C = SA Smoke Detector
D = RA + SA Smoke Detector
E = CO₂
F = RA Smoke Detector and CO₂
G = SA Smoke Detector and CO₂
H = RA + SA Smoke Detector and CO₂
J = Condensate Overflow Switch
K = Condensate Overflow Switch and RA Smoke Detectors
L = Condensate Overflow Switch and RA + SA Smoke Detectors

Indoor Fan Options 3, 4, 5 Ton Models Only

0 = Electric (Direct) Drive x13 Motor
2 = Medium Static Option - Belt Drive
3 = High Static Option - Belt Drive

Indoor Fan Options 6-12.5 Ton Models Only

1 = Standard Static Option - Belt Drive
2 = Medium Static Option - Belt Drive
3 = High Static Option - Belt Drive
C = High Static Option with High-Efficiency Motor, Belt Drive (Size 14 only)

Coil Options (RTPF) (Outdoor - Indoor - Hail Guard)

A = Al/Cu - Al/Cu
B = Precoat Al/Cu - Al/Cu
C = E-coat Al/Cu - Al/Cu
D = E-coat Al/Cu - E-coat Al/Cu
E = Cu/Cu - Al/Cu
F = Cu/Cu - Cu/Cu
M = Al/Cu - Al/Cu — Louvered Hail Guard
N = Precoat Al/Cu - Al/Cu — Louvered Hail Guard
P = E-coat Al/Cu - Al/Cu — Louvered Hail Guard
Q = E-coat Al/Cu - E-coat Al/Cu — Louvered Hail Guard
R = Cu/Cu - Al/Cu — Louvered Hail Guard
S = Cu/Cu - Cu/Cu — Louvered Hail Guard

Factory Assigned

0 = Standard
1 = LTL

Electrical Options†

A = None
B = HACR Breaker
C = Non-Fused Disconnect
D = Thru-The-Base Connections
E = HACR and Thru-The Base Connections
F = Non-Fused Disconnect and Thru-The-Base Connections
G = 2-Speed Indoor Fan (VFD) Controller
H = 2-Speed Fan Controller (VFD) and HACR Breaker
J = 2-Speed Fan Controller (VFD) and Non-Fused Disconnect
K = 2-Speed Fan Controller (VFD) and Thru-The-Base Connections
L = 2-Speed Fan Controller (VFD) w/ HACR Breaker and Thru-The Base Connections
M = 2-Speed Fan Controller (VFD) with Non-Fused Disconnect and Thru-The-Base Connections

Service Options

0 = None
1 = Unpowered Convenience Outlet
2 = Powered Convenience Outlet
3 = Hinged Panels
4 = Hinged Panels and Unpowered Convenience Outlet
5 = Hinged Panels and Powered Convenience Outlet
C = Foil Faced Insulation
D = Foil Faced Insulation with Unpowered Convenience Outlet
E = Foil Faced Insulation with Powered Convenience Outlet
F = Foil Faced Insulation & Hinged Panels
G = Foil Faced Insulation & Hinged Panels with Unpowered Convenience Outlet
H = Foil Faced Insulation & Hinged Panels with Powered Convenience Outlet

Intake / Exhaust Options

A = None
B = Temperature Economizer w/ Barometric Relief
F = Enthalpy Economizer w/ Barometric Relief
K = 2-Position Damper
Q = EnergyX only
R = EnergyX + Economizer only**
S = EnergyX + Frost Protection only**
T = EnergyX + Economizer + Frost Protection**
U = Low Leak Temperature Economizer w/ Barometric Relief
W = Low Leak Enthalpy Economizer w/ Barometric Relief

Base Unit Controls

0 = Electromechanical Controls can be used with W7212 Controller (Non-Fault Detection and Diagnostic)
1 = PremierLink™ Controller
2 = RTU Open Multi-Protocol Controller
6 = Electro-mechanical w/ 2-speed fan and W7220 controller (w/ Fault Detection & Diagnostic). Can be used with EconoMiSerX
D = ComfortLink Controls (Not available on 2-stage cooling 07 size models or size 11 with Humidi-Mizer®)

Design Revision

A = Factory Design Revision

Voltage††

1 = 575/3/60 5 = 208-230/3/60
3 = 208-230/1/60 6 = 460/3/60

* Staged Air Volume (SAV) is required on sizes 11 and 12 units to meet DOE-2018 minimum efficiency requirements.

† Units sold in the US require a 2-speed fan.

** Includes ComfortLink controls.

†† On single phase models (-3 voltage code), the following are not available as factory-installed options:

- Humidi-MiZer System
- Coated Coils or Cu Fin Coils
- Louvered Hail Guards
- Economizer or 2-Position Damper
- Powered 115 v Convenience Outlet



SOUND RATINGS TABLE

48HC UNIT	COOLING STAGES	OUTDOOR SOUND (dB) AT 60 HZ								
		A-WEIGHTED	63	125	250	500	1000	2000	4000	8000
A04	1	76	78.2	78.0	74.2	73.3	70.6	66.0	62.4	56.9
A05	1	78	84.7	83.6	77.1	74.6	72.3	68.3	64.7	60.9
A06	1	77	87.5	82.5	76.1	73.6	71.3	67.1	64.1	60.0
A07	1	82	90.1	82.6	81.0	79.4	77.0	73.0	70.4	66.7
D07	2	82	90.1	82.6	81.0	79.4	77.0	73.0	70.4	66.7
D08	2	82	90.6	84.3	80.2	79.3	77.1	72.2	67.4	63.7
D09	2	82	88.6	85.0	81.6	79.5	77.4	74.1	71.0	66.3
D11	2	87	85.9	87.9	85.6	84.4	82.8	78.5	74.9	72.5
D12	2	87	85.9	87.9	85.6	84.4	82.8	78.5	74.9	72.5
D14	2	83	89.3	86.0	82.9	80.7	78.5	73.6	69.6	64.5

LEGEND

dB — Decibel

NOTES:

1. Outdoor sound data is measured in accordance with AHRI.
2. Measurements are expressed in terms of sound power. Do not compare these values to sound pressure values because sound pressure depends on specific environmental factors which normally do not match individual applications. Sound power values are independent of the environment and therefore more accurate.
3. A-weighted sound ratings filter out very high and very low frequencies, to better approximate the response of "average" human ear. A-weighted measurements for Carrier units are taken in accordance with AHRI.

Base unit dimensions (cont)

48HC**07-09 BASE UNIT DIMENSIONS

NOTES:
1. DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE IN MILLIMETERS.

2. CENTER OF GRAVITY

3. DIRECTION OF AIR FLOW

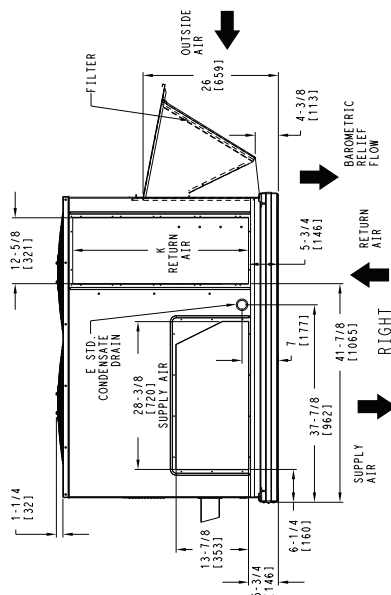
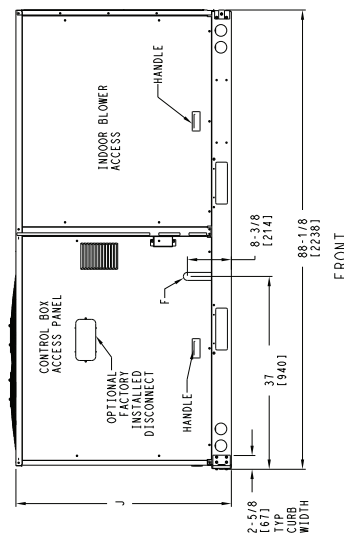
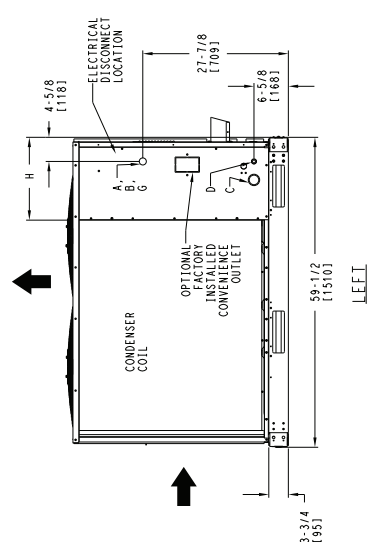
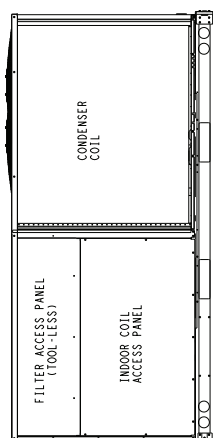
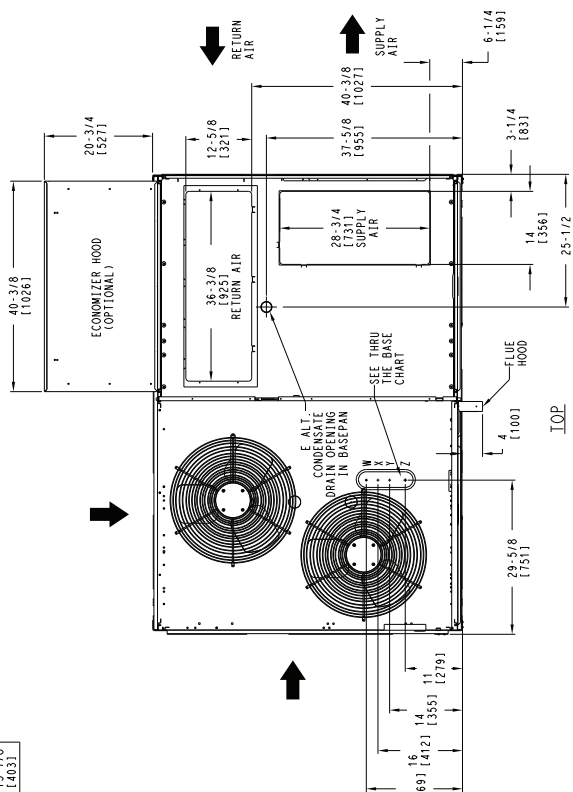
UNIT	J	K	H
48HC-A-007	41 1/4 [1048]	33 3/4 [857]	15 7/8 [403]
48HC-D08	49 3/8 [1253]	36 3/8 [925]	15 7/8 [403]
48HC-D09	49 3/8 [1253]	36 3/8 [925]	15 7/8 [403]

CONNECTION SIZES	
A	1 3/8" [35] DIA FIELD POWER SUPPLY HOLE
B	2 1/2" [64] DIA POWER SUPPLY KNOCKOUT
C	1 3/4" [51] DIA GAUGE ACCESS PLUG
D	7/8" [22] DIA FIELD CONTROL WIRING HOLE
E	3/4" - 14 NPT CONDENSATE DRAIN
F	1/2" - 14 NPT GAS CONNECTION
G	3/4" - 14 NPT GAS CONNECTION
H	2" - 151 DIA POWER SUPPLY KNOCK-OUT

THRU-THE-BASE CHART (FIELD INST)	
THESE HOLES REQUIRED FOR USE WITH ACCT KITS:	
CRBTMPR002001: 08 - GAS THRU CURB	
CRBTMPR003001: 08 - GAS THRU CURB	
CRBTMPR003001: 07 - GAS THRU BASEPAN	
CRBTMPR004001: 08, 09 - GAS THRU BASEPAN	

	THREADED CONDUIT SIZE	REQ'D HOLE SIZE (MAX.)
W	1/2"	7/8" [22.2]
X	1/2"	7/8" [22.2]
Y	3/4" [19.05]	1 1/4" [30.48]
Y	1 1/4" [30.48]	1 3/4" [44.45]
Z *	(003) 1/2" FPT	1 1/8" [28.6]
Z *	(004) 3/4" FPT	1 3/4" [44.45]
*	(001 & 002) PROVIDES 3/4" FPT THRU CURB FLANGE & FITTING. HOLE SIZE: 2" [50.8]	

THRU-THE-BASE CHART (F.T.O.P)	
FOR "THRU-THE-BASEPAN" FACTORY OPTION, FITTINGS FOR ONLY X, Y, & Z ARE PROVIDED. **	
FOR BELOW LISTED MODELS, A FIELD SUPPLIED 1/2" ADAPTER IS REQUIRED BETWEEN BASE PAN FITTING AND GAS VALVE:	
48HC-D, S, SR-07	
48HC-D, S, SR-07	
48HC-D, S-09	



APPENDIX D

Cadna Analysis Data and Results

S200508 - W.M. Lyles - Calibration Model

Eilar Associates, Inc.

210 South Juniper Street, Suite 100

Escondido, California 92025-4230

Phone: (760) 738-5570

Date: 23 Jun 2020

Calculation Configuration

Configuration	
Parameter	Value
General	
Country	(user defined)
Max. Error (dB)	0.00
Max. Search Radius (#(Unit,LEN))	2000.00
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (#(Unit,LEN))	1000.00
Min. Length of Section (#(Unit,LEN))	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	960.00
Reference Time Night (min)	480.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	6.00
Night-time Penalty (dB)	10.00
DTM	
Standard Height (m)	0.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	0
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rcvr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	Excl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (#(Unit,TEMP))	10
rel. Humidity (%)	70
Ground Absorption G	0.70
Wind Speed for Dir. (#(Unit,SPEED))	3.0
Roads (TNM)	
Railways (Schall 03 (1990))	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	

Receivers

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type			X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)		(m)	(m)	(m)
NML			57.7	-63.1	0.0	0.0		x	Total	1.52	r	628.59	458.40	329.04

Roads

Name	M.	ID	Lme			Count Data		exact Count Data						Speed Limit		SCS	Surface		Gradient	Mult. Reflection		
			Day	Evening	Night	DTV	Str.class.	M			p (%)			Auto	Truck	Dist.	Dstro	Type		Drefl	Hbuild	Dist.
			(dBA)	(dBA)	(dBA)			Day	Evening	Night	Day	Evening	Night	(km/h)	(km/h)		(dB)		(%)	(dB)	(m)	(m)
15 NB		R_1	79.4	0.0	0.0			6882.0	0.0	0.0	7.2	0.0	0.0	113		13.41	0.0	1	0.0	0.0		
15 SB		R_2	79.4	0.0	0.0			6882.0	0.0	0.0	7.2	0.0	0.0	113		13.41	0.0	1	0.0	0.0		
Madison Ave		R_3	52.7	0.0	0.0			66.0	0.0	0.0	18.2	0.0	0.0	56		5.49	0.0	1	0.0	0.0		
Jefferson Ave NB		R_4	67.4	0.0	0.0			1073.0	0.0	0.0	8.0	0.0	0.0	81		4.88	0.0	1	0.0	0.0		
Jefferson Ave SB		R_5	67.4	0.0	0.0			1073.0	0.0	0.0	8.0	0.0	0.0	81		4.88	0.0	1	0.0	0.0		
Elm Street		R_6	56.0	0.0	0.0			185.0	0.0	0.0	8.0	0.0	0.0	56		4.88	0.0	1	0.0	0.0		
Golden Gate Circle		R_7	51.0	0.0	0.0			42.0	0.0	0.0	28.6	0.0	0.0	24		4.27	0.0	1	0.0	0.0		

Geometry - Roads

Name	Height			Coordinates				Dist	LSlope
	Begin	End		x	y	z	Ground	(m)	(%)
	(m)	(m)		(m)	(m)	(m)	(m)		
15 NB				325.72	949.26	332.84	332.84		
				796.15	836.38	325.22	325.22		
				1019.79	781.18	327.66	327.66		
15 SB				96.74	953.36	337.72	337.72		
				744.27	803.56	323.70	323.70		
				1026.67	741.49	327.05	327.05		
Madison Ave				83.87	429.38	333.15	333.15		
				196.08	429.86	328.27	328.27		
				262.77	427.86	337.41	337.41		
				358.81	429.20	334.67	334.67		
				436.18	428.53	336.80	336.80		
				486.20	429.20	333.15	333.15		
				615.41	429.55	327.66	327.66		
Jefferson Ave NB				89.06	195.70	321.56	321.56		
				123.73	193.44	321.56	321.56		
				229.74	171.77	322.17	322.17		
				277.07	167.44	321.56	321.56		
				340.75	172.44	321.87	321.87		
				448.76	196.78	323.39	323.39		
				505.09	209.44	322.17	322.17		
				558.77	214.44	320.65	320.65		
				621.21	207.30	319.74	319.74		
				672.14	193.17	317.91	317.91		
				709.32	178.72	319.13	319.13		
				801.25	138.91	320.34	320.34		
				852.05	126.74	320.95	320.95		
				897.58	122.92	321.26	321.26		
				1029.33	110.39	319.43	319.43		
Jefferson Ave SB				89.06	182.08	321.56	321.56		
				123.73	180.09	321.26	321.26		
				229.74	159.22	322.17	322.17		

Name	Height		Coordinates				Dist	LSlope
	Begin	End	x	y	z	Ground	(m)	(%)
	(m)	(m)	(m)	(m)	(m)	(m)		
			277.07	155.42	322.17	322.17		
			340.75	159.89	321.87	321.87		
			448.76	184.75	322.78	322.78		
			505.09	197.42	321.87	321.87		
			558.77	200.57	321.56	321.56		
			621.21	195.28	319.43	319.43		
			666.97	183.11	319.43	319.43		
			709.32	167.23	318.52	318.52		
			801.51	128.27	320.95	320.95		
			852.58	117.09	320.95	320.95		
			897.41	113.09	321.56	321.56		
			1029.59	102.09	320.65	320.65		
Elm Street			442.05	94.43	321.87	321.87		
			444.57	341.51	340.77	340.77		
			447.93	563.37	332.54	332.54		
			451.46	806.69	330.71	330.71		
Golden Gate Circle			626.93	736.30	324.31	324.31		
			620.90	444.39	327.66	327.66		
			618.07	437.98	327.66	327.66		
			613.87	435.67	327.66	327.66		

Buildings

Name	M.	ID	RB	Residents	Absorption	Height
						Begin
						(m)
			x	0		
			x	0		
			x	0		
			x	0		

Geometry - Buildings

Name	M.	ID	RB	Residents	Absorption	Height	Coordinates			
						Begin	x	y	z	Ground
						(m)	(m)	(m)	(m)	(m)
			x	0			556.88	490.97	335.28	329.18
							598.84	491.24	335.28	329.18
							598.04	456.56	335.28	329.18
							556.36	456.96	335.28	329.18
			x	0			466.79	589.88	340.77	334.06
							528.19	588.29	340.77	334.06
							527.67	565.00	340.77	334.06
							466.26	566.59	340.77	334.06
			x	0			466.26	638.58	340.46	335.00
							528.19	637.52	340.46	335.00
							527.14	617.40	340.46	335.00
							466.79	617.93	340.46	335.00
			x	0			569.48	576.11	335.28	328.88
							610.77	575.59	335.28	328.88
							609.19	547.00	335.28	328.88
							567.37	549.12	335.28	328.88

Terrain Contours

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
				327.05	325.53	639.60	551.05	327.05
						723.76	547.88	325.53
				323.70	322.17	640.66	783.97	323.70
						709.47	759.09	322.17
1040				316.99		765.63	457.96	316.99
						768.47	448.03	316.99
						775.15	440.42	316.99
						789.91	411.11	316.99
						788.19	418.46	316.99
						791.30	420.11	316.99
						791.23	417.86	316.99
						800.23	411.94	316.99
						800.40	405.69	316.99
						804.57	394.84	316.99
						804.70	388.95	316.99
						805.10	384.52	316.99
						804.57	383.46	316.99
						793.72	405.43	316.99
						793.45	403.84	316.99
						806.53	378.95	316.99
						810.36	368.39	316.99
						820.13	356.47	316.99
						829.22	343.89	316.99
						835.55	333.72	316.99
						837.39	338.97	316.99
						842.47	343.39	316.99
						842.72	329.88	316.99
						842.71	324.03	316.99
						865.37	277.64	316.99
1040				316.99		773.52	435.05	316.99
						770.08	434.32	316.99
						770.94	423.07	316.99
						777.43	414.41	316.99
						781.00	417.45	316.99
						779.01	424.40	316.99
						775.84	429.62	316.99
						773.85	435.18	316.99
1040				316.99		762.47	457.48	316.99
						763.73	448.81	316.99
						767.70	441.34	316.99
						768.10	431.81	316.99
						768.89	423.07	316.99
						773.65	416.46	316.99
						778.35	412.69	316.99
						781.46	409.77	316.99

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						785.10	397.00	316.99
						790.46	384.90	316.99
						796.72	375.65	316.99
						801.15	367.75	316.99
						815.91	346.45	316.99
						821.34	339.53	316.99
						827.49	327.87	316.99
						829.29	322.15	316.99
						833.15	317.58	316.99
						835.27	314.23	316.99
						835.58	309.40	316.99
						837.68	302.10	316.99
						840.07	297.62	316.99
						840.96	292.89	316.99
						842.54	285.85	316.99
						844.74	284.33	316.99
						844.32	277.08	316.99
1045				318.52		867.57	278.12	318.52
						844.98	323.97	318.52
						844.72	358.94	318.52
						842.22	358.90	318.52
						835.26	363.36	318.52
						829.63	373.40	318.52
						827.55	376.16	318.52
						822.66	384.82	318.52
						822.82	389.70	318.52
						821.14	391.17	318.52
						816.81	394.68	318.52
						815.01	396.80	318.52
						809.76	404.26	318.52
						812.14	409.55	318.52
						806.65	419.74	318.52
						795.40	434.10	318.52
						789.85	445.61	318.52
						787.27	451.50	318.52
						785.41	458.58	318.52
1045				318.52		838.60	279.13	318.52
						837.81	286.06	318.52
						837.86	295.78	318.52
						830.11	311.99	318.52
						823.36	322.08	318.52
						815.32	341.05	318.52
						809.32	353.30	318.52
						792.09	379.25	318.52
						781.34	400.00	318.52
						772.83	410.93	318.52
						767.08	416.51	318.52

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						761.76	421.74	318.52
						762.42	430.66	318.52
						760.09	441.66	318.52
						755.34	450.58	318.52
						754.34	461.50	318.52
1050				320.04		751.40	456.24	320.04
						751.07	452.86	320.04
						753.25	449.22	320.04
						756.17	443.27	320.04
						758.08	437.12	320.04
1050				320.04		787.12	458.73	320.04
						790.62	447.35	320.04
						795.52	437.09	320.04
						798.69	432.93	320.04
						802.86	428.56	320.04
						805.94	426.57	320.04
						812.21	426.88	320.04
						818.35	422.34	320.04
						820.66	407.55	320.04
						820.61	400.24	320.04
						825.98	396.53	320.04
						832.48	395.58	320.04
						834.02	393.41	320.04
						833.95	387.28	320.04
						833.32	379.41	320.04
						836.37	372.58	320.04
						843.19	368.69	320.04
						847.56	363.14	320.04
						847.56	323.64	320.04
						853.34	311.04	320.04
						863.84	301.17	320.04
1050				320.04		757.87	421.07	320.04
						764.44	415.61	320.04
						765.44	410.20	320.04
						771.53	409.21	320.04
						775.10	404.85	320.04
						779.46	399.54	320.04
						783.66	390.30	320.04
						789.08	380.04	320.04
						792.33	374.29	320.04
						794.77	372.30	320.04
						801.52	359.27	320.04
						803.77	352.32	320.04
						808.87	346.96	320.04
						794.94	338.03	320.04
						800.93	338.86	320.04
						809.96	342.40	320.04

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						808.84	340.01	320.04
						810.16	339.52	320.04
						812.08	338.86	320.04
						815.32	330.19	320.04
						818.52	322.73	320.04
						820.57	318.21	320.04
						823.93	310.28	320.04
						831.48	301.35	320.04
						834.65	298.51	320.04
						835.91	277.33	320.04
1055				321.56		635.48	264.99	321.56
						635.90	293.50	321.56
						637.40	302.42	321.56
						639.82	303.08	321.56
						642.86	304.45	321.56
						736.01	302.03	321.56
						755.59	301.87	321.56
						770.18	301.78	321.56
						772.35	303.03	321.56
						777.43	301.78	321.56
						785.10	302.12	321.56
						781.93	305.28	321.56
						776.76	305.45	321.56
						771.01	307.79	321.56
						770.93	310.95	321.56
						760.34	317.79	321.56
						756.93	324.62	321.56
						754.41	330.40	321.56
						756.82	334.70	321.56
						755.14	337.75	321.56
						762.60	343.42	321.56
						765.85	352.55	321.56
						772.34	362.21	321.56
						774.19	375.05	321.56
						776.31	388.94	321.56
						779.08	390.13	321.56
						773.79	400.71	321.56
						765.06	404.68	321.56
						751.56	416.46	321.56
						746.38	422.78	321.56
						744.53	423.77	321.56
						741.24	423.27	321.56
						740.16	421.60	321.56
						738.57	423.89	321.56
						744.95	424.69	321.56
						747.03	425.81	321.56
						749.20	426.64	321.56

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						752.98	429.63	321.56
						756.78	434.51	321.56
						755.29	440.30	321.56
						754.30	444.55	321.56
						752.25	449.70	321.56
						750.72	450.96	321.56
						749.67	450.96	321.56
						749.15	453.42	321.56
						750.04	454.37	321.56
						750.15	456.89	321.56
1055				321.56		866.77	361.33	321.56
						863.72	361.43	321.56
						858.68	367.63	321.56
						853.33	377.08	321.56
						847.66	379.92	321.56
						863.41	396.30	321.56
						863.72	401.56	321.56
						868.66	408.59	321.56
						895.00	423.60	321.56
1055				321.56		787.82	458.34	321.56
						796.23	438.70	321.56
						803.37	431.25	321.56
						807.88	429.57	321.56
						818.49	436.18	321.56
						813.77	436.81	321.56
						811.14	440.17	321.56
						811.88	443.64	321.56
						813.24	444.06	321.56
						810.93	448.89	321.56
						812.61	459.29	321.56
1055				321.56		814.61	312.52	321.56
						819.03	309.40	321.56
						819.20	304.02	321.56
						814.15	311.56	321.56
						815.32	313.27	321.56
1060				323.09		633.28	266.49	323.09
						632.82	291.16	323.09
						634.01	303.73	323.09
						637.18	306.71	323.09
						667.81	306.77	323.09
						694.01	306.51	323.09
						700.63	309.22	323.09
						700.49	313.26	323.09
						702.74	323.77	323.09
						704.79	332.90	323.09
						710.55	335.29	323.09
						724.04	342.76	323.09

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						732.45	350.70	323.09
						737.54	358.70	323.09
						749.78	359.76	323.09
						756.72	362.74	323.09
						760.96	369.42	323.09
						761.55	373.13	323.09
						764.26	381.29	323.09
						764.84	394.58	323.09
						758.85	401.82	323.09
						750.56	412.48	323.09
						744.47	418.36	323.09
						733.91	422.51	323.09
1060				323.09		748.77	456.72	323.09
						748.09	449.10	323.09
						751.72	446.37	323.09
						752.19	443.59	323.09
						752.92	442.07	323.09
						752.77	438.44	323.09
						753.13	437.50	323.09
						747.83	429.25	323.09
						741.99	425.25	323.09
						738.16	427.46	323.09
						734.95	424.38	323.09
						731.95	425.05	323.09
						729.28	428.59	323.09
						727.70	424.13	323.09
						725.41	422.29	323.09
						727.41	420.75	323.09
						729.53	425.25	323.09
						730.70	425.67	323.09
						732.07	422.38	323.09
						733.74	422.50	323.09
1065				324.61		629.79	266.86	324.61
						629.72	292.13	324.61
						631.14	304.73	324.61
						634.61	309.72	324.61
						641.91	310.67	324.61
						667.11	310.14	324.61
						681.50	310.46	324.61
						683.70	312.35	324.61
						682.13	315.76	324.61
						685.33	329.46	324.61
						685.66	343.55	324.61
						684.34	357.31	324.61
						692.31	364.26	324.61
						693.04	360.02	324.61
						694.69	358.17	324.61

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						696.48	355.26	324.61
						697.67	352.35	324.61
						701.04	349.30	324.61
						700.71	353.14	324.61
						700.18	358.30	324.61
						701.04	363.33	324.61
						703.75	363.46	324.61
						708.15	358.12	324.61
						711.36	353.62	324.61
						711.34	349.56	324.61
						710.44	346.59	324.61
						709.58	344.27	324.61
						706.01	342.32	324.61
						703.37	343.91	324.61
						702.57	344.34	324.61
						706.11	341.63	324.61
						708.82	342.92	324.61
						710.94	344.34	324.61
						712.43	346.98	324.61
						713.22	349.63	324.61
						712.83	356.15	324.61
						712.21	359.84	324.61
						709.43	362.93	324.61
						709.11	365.05	324.61
						705.50	368.99	324.61
						707.98	368.95	324.61
						708.15	370.54	324.61
						715.67	367.09	324.61
						716.93	367.25	324.61
						724.49	364.73	324.61
						738.30	363.31	324.61
						745.28	364.52	324.61
						748.76	366.48	324.61
						752.40	372.30	324.61
						754.45	379.84	324.61
						756.21	384.51	324.61
						755.84	389.13	324.61
						755.53	394.33	324.61
						752.39	405.22	324.61
						745.40	412.94	324.61
						738.54	418.33	324.61
						730.20	418.60	324.61
						724.97	420.25	324.61
						719.61	419.86	324.61
						702.68	423.30	324.61
						706.71	423.83	324.61
						706.58	426.01	324.61

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						711.34	427.46	324.61
						713.06	430.24	324.61
						717.63	430.97	324.61
						727.62	433.22	324.61
						734.96	434.87	324.61
						744.74	435.04	324.61
						749.50	436.89	324.61
						749.42	441.68	324.61
						747.57	446.64	324.61
						746.05	451.01	324.61
						746.31	457.76	324.61
1065				324.61		738.48	455.52	324.61
						735.36	452.66	324.61
						735.75	443.41	324.61
						737.00	445.14	324.61
						738.46	445.28	324.61
						739.50	446.35	324.61
						739.67	448.85	324.61
						740.96	451.41	324.61
						742.21	452.72	324.61
						741.23	455.89	324.61
						738.88	455.87	324.61
1070				326.14		625.93	267.74	326.14
						625.63	279.95	326.14
						626.88	296.91	326.14
						627.99	305.89	326.14
						630.14	311.72	326.14
						636.55	313.92	326.14
						643.16	314.24	326.14
						654.77	313.14	326.14
						671.36	313.56	326.14
						672.78	315.40	326.14
						670.78	331.52	326.14
						673.10	348.65	326.14
1070				326.14		667.43	449.90	326.14
						679.61	437.93	326.14
						694.21	437.93	326.14
						699.67	436.77	326.14
						682.24	436.04	326.14
						669.64	434.77	326.14
						669.11	431.10	326.14
						666.17	429.42	326.14
						659.03	429.10	326.14
						657.98	424.90	326.14
						655.99	422.17	326.14
						660.61	422.28	326.14
						670.90	419.86	326.14

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						689.17	419.65	326.14
						707.45	417.34	326.14
						716.90	416.08	326.14
						728.97	415.98	326.14
						738.63	414.79	326.14
						744.39	409.96	326.14
						748.03	402.55	326.14
						747.63	390.97	326.14
						746.18	379.13	326.14
						742.29	370.30	326.14
						739.40	367.63	326.14
						732.79	367.05	326.14
						727.38	368.10	326.14
						718.59	370.11	326.14
						717.80	372.42	326.14
						708.25	377.05	326.14
						697.69	388.07	326.14
						693.49	385.13	326.14
						689.34	386.29	326.14
						683.67	385.24	326.14
						679.63	380.88	326.14
						677.76	372.26	326.14
						678.49	351.69	326.14
						676.43	358.24	326.14
						676.63	370.81	326.14
						674.52	372.13	326.14
1070				326.14		729.70	455.45	326.14
						731.79	447.45	326.14
						733.83	449.20	326.14
						731.75	458.16	326.14
1075				327.66		621.45	268.98	327.66
						622.60	289.67	327.66
						625.75	310.46	327.66
						630.90	316.34	327.66
						643.82	316.97	327.66
						663.45	316.97	327.66
						663.87	326.21	327.66
						664.04	345.38	327.66
						662.62	384.48	327.66
1075				327.66		614.71	438.35	327.66
						611.14	436.88	327.66
						620.91	422.70	327.66
						635.40	420.07	327.66
						669.85	417.45	327.66
1080				329.18		611.37	325.72	329.18
						613.55	318.58	329.18
						613.02	302.04	329.18

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						615.60	290.66	329.18
						619.04	286.36	329.18
						621.56	308.39	329.18
						624.73	317.19	329.18
						631.28	319.44	329.18
						641.60	320.30	329.18
						643.12	328.77	329.18
						641.55	365.31	329.18
						637.05	409.77	329.18
1080				329.18		611.10	418.42	329.18
						633.72	416.17	329.18
						669.74	413.67	329.18
						653.36	413.04	329.18
1085				330.71		611.00	353.52	330.71
						624.17	321.10	330.71
						639.67	323.35	330.71
						641.17	342.94	330.71
						637.50	372.66	330.71
						625.99	404.67	330.71
						621.66	413.67	330.71
						619.16	413.00	330.71
						609.49	415.58	330.71
1090				332.23		610.76	365.79	332.23
						635.96	338.80	332.23
						633.44	354.24	332.23
						625.36	383.85	332.23
						617.48	402.23	332.23
						611.18	411.05	332.23
						602.99	412.42	332.23

Eilar Associates, Inc.

210 South Juniper Street, Suite 100

Escondido, California 92025-4230

Phone: (760) 738-5570

Date: 23 Jun 2020

Calculation Configuration

Configuration	
Parameter	Value
General	
Country	(user defined)
Max. Error (dB)	0.00
Max. Search Radius (#(Unit,LEN))	2000.00
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (#(Unit,LEN))	1000.00
Min. Length of Section (#(Unit,LEN))	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	960.00
Reference Time Night (min)	480.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	0.00
Night-time Penalty (dB)	0.00
DTM	
Standard Height (m)	0.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	0
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rcvr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	Excl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (#(Unit,TEMP))	10
rel. Humidity (%)	70
Ground Absorption G	0.70
Wind Speed for Dir. (#(Unit,SPEED))	3.0
Roads (TNM)	
Railways (Schall 03 (1990))	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	

Receivers

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height	Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type		X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)	(m)	(m)	(m)
R1			56.3	29.2	50.0	45.0				1.52 r	776.62	384.67	323.23
R2			54.2	25.9	65.0	60.0				1.52 r	786.47	299.23	322.91
R3			55.4	25.4	65.0	60.0				1.52 r	750.44	299.91	323.03
R4			50.8	26.2	65.0	60.0				1.52 r	700.13	300.74	323.08
R5			41.5	22.6	65.0	60.0				1.52 r	659.34	302.42	323.08
R6			51.7	31.4	65.0	60.0				1.52 r	637.91	355.79	332.63

Point Sources

Name	M.	ID	Result. PWL			Lw / Li			Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.	Height		Coordinates		
			Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night						X	Y	Z
			(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(m²)		(min)	(min)	(min)	(dB)	(Hz)		(m)		(m)	(m)	(m)
Rooftop Unit			82.0	82.0	82.0	Lw	Mech2		0.0	0.0	0.0				30.00	0.00	30.00	0.0		(none)	336.44	a	698.03	366.67	336.44
Rooftop Unit			82.0	82.0	82.0	Lw	Mech2		0.0	0.0	0.0				30.00	0.00	30.00	0.0		(none)	336.44	a	697.82	362.63	336.44
Heat Pump			70.1	70.1	70.1	Lw	Mech1		0.0	0.0	0.0				30.00	0.00	30.00	0.0		(none)	1.52	r	778.22	354.13	324.12
Heat Pump			70.1	70.1	70.1	Lw	Mech1		0.0	0.0	0.0				30.00	0.00	30.00	0.0		(none)	336.96	a	697.66	358.27	336.96
Backup Alarm	BU2		110.7	110.7	110.7	Lw	L1		0.0	0.0	0.0				1.00	0.00	0.00	0.0		(none)	2.44	r	774.28	336.67	325.06
Backup Alarm	BU1		110.7	110.7	110.7	Lw	L1		0.0	0.0	0.0				1.00	0.00	0.00	0.0		(none)	2.44	r	762.30	336.93	325.06

Line Sources

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li			Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.	Moving Pt. Src			
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night				Number			Speed
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(m²)		(min)	(min)	(min)	(dB)	(Hz)		Day	Evening	Night	(km/h)
Delivery Trucks			94.6	-11.4	-11.4	71.3	-34.7	-34.7	PWL-Pt	S15		0.0	0.0	0.0							0.0		(none)	4.0	0.0	0.0	10.0

Geometry - Line Sources

Name	Height			Coordinates			
	Begin		End	x	y	z	Ground
	(m)		(m)	(m)	(m)	(m)	(m)
Delivery Trucks	0.00	r		649.41	415.58	326.72	326.72
				650.08	382.34	326.14	326.14
				651.58	358.79	325.53	325.53
				655.76	335.41	324.92	324.92
				674.13	321.04	324.33	324.33
				698.85	318.87	323.61	323.61
				722.23	317.70	323.07	323.07
				754.80	318.20	322.17	322.17
				767.83	323.38	322.25	322.25
				767.66	337.08	322.63	322.63

Area Sources

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.	Moving Pt. Src		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night				Number		
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(m²)		(min)	(min)	(min)	(dB)	(Hz)		Day	Evening	Night
Forklift			100.1	0.1	0.1	68.7	-31.3	-31.3	PWL-Pt	S22		0.0	0.0	0.0				24.00	0.00	0.00	0.0		(none)	1.0	0.0	0.0

Geometry - Area Sources

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)
Forklift	1.52	r	752.83	359.43	324.47	322.95
			736.82	361.44	325.30	323.78
			737.16	389.97	324.98	323.46
			759.51	390.14	325.48	323.96
			789.05	352.52	323.60	322.08
			789.30	337.86	323.62	322.10
			783.65	324.66	323.56	322.04
			777.48	318.01	323.53	322.01
			778.81	335.25	324.04	322.52
			780.25	357.80	323.93	322.41

Buildings

Name	M.	ID	RB	Residents	Absorption	Height
						Begin
						(m)
			x	0		
			x	0		
			x	0		
			x	0		
Warehouse			x	0		
Office Buiding			x	0		
Office Buiding 2nd floor			x	0		

Geometry - Buildings

Name	M.	ID	RB	Residents	Absorption	Height	Coordinates			
						Begin	x	y	z	Ground
						(m)	(m)	(m)	(m)	(m)
			x	0			556.88	490.97	335.28	329.18
							598.84	491.24	335.28	329.18
							598.04	456.56	335.28	329.18
							556.36	456.96	335.28	329.18
			x	0			466.79	589.88	340.77	334.06
							528.19	588.29	340.77	334.06
							527.67	565.00	340.77	334.06
							466.26	566.59	340.77	334.06
			x	0			466.26	638.58	340.46	335.00
							528.19	637.52	340.46	335.00
							527.14	617.40	340.46	335.00
							466.79	617.93	340.46	335.00
			x	0			569.48	576.11	335.28	328.88
							610.77	575.59	335.28	328.88
							609.19	547.00	335.28	328.88
							567.37	549.12	335.28	328.88
Warehouse			x	0			752.50	355.67	328.42	322.63
							777.52	355.05	328.42	322.63
							777.25	337.08	328.42	322.63
							751.95	337.14	328.42	322.63
Office Buiding			x	0			681.15	382.66	331.77	326.44
							707.74	382.25	331.77	326.44
							707.41	351.57	331.77	326.44
							680.48	351.98	331.77	326.44
Office Buiding 2nd floor			x	0			707.65	373.53	335.44	326.44
							687.64	373.64	335.44	326.44
							687.90	351.95	335.44	326.44
							707.34	351.74	335.44	326.44

Terrain Contours

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
				327.05	325.53	639.60	551.05	327.05
						723.76	547.88	325.53
				323.70	322.17	640.66	783.97	323.70
						709.47	759.09	322.17
1040				316.99		765.63	457.96	316.99
						768.47	448.03	316.99
						775.15	440.42	316.99
						789.91	411.11	316.99
						788.19	418.46	316.99
						791.30	420.11	316.99
						791.23	417.86	316.99
						800.23	411.94	316.99
						800.40	405.69	316.99
						804.57	394.84	316.99
						804.70	388.95	316.99
						805.10	384.52	316.99
						804.57	383.46	316.99
						793.72	405.43	316.99
						793.45	403.84	316.99
						806.53	378.95	316.99
						810.36	368.39	316.99
						820.13	356.47	316.99
						829.22	343.89	316.99
						835.55	333.72	316.99
						837.39	338.97	316.99
						842.47	343.39	316.99
						842.72	329.88	316.99
						842.71	324.03	316.99
						865.37	277.64	316.99
1040				316.99		773.52	435.05	316.99
						770.08	434.32	316.99
						770.94	423.07	316.99
						777.43	414.41	316.99
						781.00	417.45	316.99
						779.01	424.40	316.99
						775.84	429.62	316.99
						773.85	435.18	316.99
1040				316.99		762.47	457.48	316.99
						763.73	448.81	316.99
						767.70	441.34	316.99
						768.10	431.81	316.99
						768.89	423.07	316.99
						773.65	416.46	316.99
						778.35	412.69	316.99
						781.46	409.77	316.99

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						785.10	397.00	316.99
						790.46	384.90	316.99
						796.72	375.65	316.99
						801.15	367.75	316.99
						815.91	346.45	316.99
						821.34	339.53	316.99
						827.49	327.87	316.99
						829.29	322.15	316.99
						833.15	317.58	316.99
						835.27	314.23	316.99
						835.58	309.40	316.99
						837.68	302.10	316.99
						840.07	297.62	316.99
						840.96	292.89	316.99
						842.54	285.85	316.99
						844.74	284.33	316.99
						844.32	277.08	316.99
1045				318.52		867.57	278.12	318.52
						844.98	323.97	318.52
						844.72	358.94	318.52
						842.22	358.90	318.52
						835.26	363.36	318.52
						829.63	373.40	318.52
						827.55	376.16	318.52
						822.66	384.82	318.52
						822.82	389.70	318.52
						821.14	391.17	318.52
						816.81	394.68	318.52
						815.01	396.80	318.52
						809.76	404.26	318.52
						812.14	409.55	318.52
						806.65	419.74	318.52
						795.40	434.10	318.52
						789.85	445.61	318.52
						787.27	451.50	318.52
						785.41	458.58	318.52
1045				318.52		838.60	279.13	318.52
						837.81	286.06	318.52
						837.86	295.78	318.52
						830.11	311.99	318.52
						823.36	322.08	318.52
						815.32	341.05	318.52
						809.32	353.30	318.52
						792.09	379.25	318.52
						781.34	400.00	318.52
						772.83	410.93	318.52
						767.08	416.51	318.52

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						761.76	421.74	318.52
						762.42	430.66	318.52
						760.09	441.66	318.52
						755.34	450.58	318.52
						754.34	461.50	318.52
1050				320.04		751.40	456.24	320.04
						751.07	452.86	320.04
						753.25	449.22	320.04
						756.17	443.27	320.04
						758.08	437.12	320.04
1050				320.04		787.12	458.73	320.04
						790.62	447.35	320.04
						795.52	437.09	320.04
						798.69	432.93	320.04
						802.86	428.56	320.04
						805.94	426.57	320.04
						812.21	426.88	320.04
						818.35	422.34	320.04
						820.66	407.55	320.04
						820.61	400.24	320.04
						825.98	396.53	320.04
						832.48	395.58	320.04
						834.02	393.41	320.04
						833.95	387.28	320.04
						833.32	379.41	320.04
						836.37	372.58	320.04
						843.19	368.69	320.04
						847.56	363.14	320.04
						847.56	323.64	320.04
						853.34	311.04	320.04
						863.84	301.17	320.04
1050				320.04		757.87	421.07	320.04
						764.44	415.61	320.04
						765.44	410.20	320.04
						771.53	409.21	320.04
						775.10	404.85	320.04
						779.46	399.54	320.04
						783.66	390.30	320.04
						789.08	380.04	320.04
						792.33	374.29	320.04
						794.77	372.30	320.04
						801.52	359.27	320.04
						803.77	352.32	320.04
						808.87	346.96	320.04
						809.96	342.40	320.04
						808.84	340.01	320.04
						810.16	339.52	320.04

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						812.08	338.86	320.04
						815.32	330.19	320.04
						818.52	322.73	320.04
						820.57	318.21	320.04
						823.93	310.28	320.04
						831.48	301.35	320.04
						834.65	298.51	320.04
						835.91	277.33	320.04
1055				321.56		635.48	264.99	321.56
						635.90	293.50	321.56
						637.40	302.42	321.56
						639.82	303.08	321.56
						642.86	304.45	321.56
						736.01	302.03	321.56
						755.59	301.87	321.56
						770.18	301.78	321.56
						772.35	303.03	321.56
						777.43	301.78	321.56
						785.10	302.12	321.56
						781.93	305.28	321.56
						776.76	305.45	321.56
						771.01	307.79	321.56
1055				321.56		776.31	388.94	321.56
						779.08	390.13	321.56
						773.79	400.71	321.56
						765.06	404.68	321.56
						751.56	416.46	321.56
						746.38	422.78	321.56
						744.53	423.77	321.56
						741.24	423.27	321.56
						740.16	421.60	321.56
						738.57	423.89	321.56
						744.95	424.69	321.56
						747.03	425.81	321.56
						749.20	426.64	321.56
						752.98	429.63	321.56
						756.78	434.51	321.56
						755.29	440.30	321.56
						754.30	444.55	321.56
						752.25	449.70	321.56
						750.72	450.96	321.56
						749.67	450.96	321.56
						749.15	453.42	321.56
						750.04	454.37	321.56
						750.15	456.89	321.56
1055				321.56		866.77	361.33	321.56
						863.72	361.43	321.56

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						858.68	367.63	321.56
						853.33	377.08	321.56
						847.66	379.92	321.56
						863.41	396.30	321.56
						863.72	401.56	321.56
						868.66	408.59	321.56
						895.00	423.60	321.56
1055				321.56		787.82	458.34	321.56
						796.23	438.70	321.56
						803.37	431.25	321.56
						807.88	429.57	321.56
						818.49	436.18	321.56
						813.77	436.81	321.56
						811.14	440.17	321.56
						811.88	443.64	321.56
						813.24	444.06	321.56
						810.93	448.89	321.56
						812.61	459.29	321.56
1055				321.56		814.61	312.52	321.56
						819.03	309.40	321.56
						819.20	304.02	321.56
						814.15	311.56	321.56
						815.32	313.27	321.56
1060				323.09		633.28	266.49	323.09
						632.82	291.16	323.09
						634.01	303.73	323.09
						637.18	306.71	323.09
						667.81	306.77	323.09
						694.01	306.51	323.09
						700.63	309.22	323.09
						700.49	313.26	323.09
1060				323.09		732.45	350.70	323.09
						737.54	358.70	323.09
						749.78	359.76	323.09
						756.72	362.74	323.09
						760.96	369.42	323.09
						761.55	373.13	323.09
						764.26	381.29	323.09
						764.84	394.37	323.09
						758.85	401.82	323.09
						750.56	412.48	323.09
						744.47	418.36	323.09
						733.91	422.51	323.09
1060				323.09		748.77	456.72	323.09
						748.09	449.10	323.09
						751.72	446.37	323.09
						752.19	443.59	323.09

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						752.92	442.07	323.09
						752.77	438.44	323.09
						753.13	437.50	323.09
						747.83	429.25	323.09
						741.99	425.25	323.09
						738.16	427.46	323.09
						734.95	424.38	323.09
						731.95	425.05	323.09
						729.28	428.59	323.09
						727.70	424.13	323.09
						725.41	422.29	323.09
						727.41	420.75	323.09
						729.53	425.25	323.09
						730.70	425.67	323.09
						732.07	422.38	323.09
						733.74	422.50	323.09
1065				324.61		629.79	266.86	324.61
						629.72	292.13	324.61
						631.14	304.73	324.61
						634.61	309.72	324.61
						641.91	310.67	324.61
						667.11	310.14	324.61
						681.50	310.46	324.61
						683.70	312.35	324.61
1065				324.61		738.30	363.31	324.61
						745.28	364.52	324.61
						748.76	366.48	324.61
						752.40	372.30	324.61
						754.45	379.84	324.61
						756.21	384.51	324.61
						755.84	389.13	324.61
						755.53	394.33	324.61
1065				324.61		749.50	409.28	324.61
						745.40	412.94	324.61
						738.54	418.33	324.61
						730.20	418.40	324.61
						724.91	419.66	324.61
						719.61	419.86	324.61
						702.68	423.30	324.61
						706.71	423.83	324.61
						706.58	426.01	324.61
						711.34	427.46	324.61
						713.06	430.24	324.61
						717.63	430.97	324.61
						727.62	433.22	324.61
						734.96	434.87	324.61
						744.74	435.04	324.61

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						749.50	436.89	324.61
						749.42	441.68	324.61
						747.57	446.64	324.61
						746.05	451.01	324.61
						746.31	457.76	324.61
1065				324.61		738.48	455.52	324.61
						735.36	452.66	324.61
						735.75	443.41	324.61
						737.00	445.14	324.61
						738.46	445.28	324.61
						739.50	446.35	324.61
						739.67	448.85	324.61
						740.96	451.41	324.61
						742.21	452.72	324.61
						741.23	455.89	324.61
						738.88	455.87	324.61
1070				326.14		625.93	267.74	326.14
						625.63	279.95	326.14
						626.88	296.91	326.14
						627.99	305.89	326.14
						630.14	311.72	326.14
						636.55	313.92	326.14
						643.16	314.24	326.14
						654.77	313.14	326.14
						671.36	313.56	326.14
1070				326.14		689.17	419.65	326.14
						707.45	417.34	326.14
						716.90	416.08	326.14
						728.97	415.98	326.14
						738.63	414.79	326.14
						744.39	409.96	326.14
1070				326.14		747.63	390.97	326.14
						746.18	379.13	326.14
						742.29	370.30	326.14
						739.40	367.63	326.14
						732.79	367.05	326.14
1070				326.14		729.70	455.45	326.14
						731.79	447.45	326.14
						733.83	449.20	326.14
						731.75	458.16	326.14
1075				327.66		621.45	268.98	327.66
						622.60	289.67	327.66
						625.75	310.46	327.66
						630.90	316.34	327.66
						643.82	316.97	327.66
						663.45	316.97	327.66
1080				329.18		611.37	325.72	329.18

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						613.55	318.58	329.18
						613.02	302.04	329.18
						615.60	290.66	329.18
						619.04	286.36	329.18
						621.56	308.39	329.18
						624.73	317.19	329.18
						631.28	319.44	329.18
						641.60	320.30	329.18
						643.12	328.77	329.18
						641.55	365.31	329.18
						637.05	409.77	329.18
1085				330.71		611.00	353.52	330.71
						624.17	321.10	330.71
						639.67	323.35	330.71
						641.17	342.94	330.71
						637.50	372.66	330.71
						625.99	404.67	330.71
						621.66	413.67	330.71
						619.16	413.00	330.71
						609.49	415.58	330.71
1090				332.23		610.76	365.79	332.23
						635.96	338.80	332.23
						633.44	354.24	332.23
						625.36	383.85	332.23
						617.48	402.23	332.23
						611.18	411.05	332.23
						602.99	412.42	332.23
Golden Gate Circle		R_6				626.93	736.30	324.31
						620.90	444.39	327.66
						618.07	437.98	327.66
						613.87	435.67	327.66
Elm Street		R_6				442.05	94.43	321.87
						444.57	341.51	340.77
						447.93	563.37	332.54
						451.46	806.69	330.71
Madison Ave		R_3				83.87	429.38	333.15
						196.08	429.86	328.27
						262.77	427.86	337.41
						358.81	429.20	334.67
						436.18	428.53	336.80
						486.20	429.20	333.15
						615.41	429.55	327.66
15 SB		R_2				96.74	953.36	337.72
						744.27	803.56	323.70
						1026.67	741.49	327.05
15 NB		R_1				325.72	949.26	332.84
						796.15	836.38	325.22

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						1019.79	781.18	327.66
15 NB		R_1				325.72	949.26	332.84
						796.15	836.38	325.22
						1019.79	781.18	327.66
Jefferson Ave SB		R_5				89.06	182.08	321.56
						123.73	180.09	321.26
						229.74	159.22	322.17
						277.07	155.42	322.17
						340.75	159.89	321.87
						448.76	184.75	322.78
						505.09	197.42	321.87
						558.77	200.57	321.56
						621.21	195.28	319.43
						666.97	183.11	319.43
						709.32	167.23	318.52
						801.51	128.27	320.95
						852.58	117.09	320.95
						897.41	113.09	321.56
						1029.59	102.09	320.65
1052				320.65		790.35	318.32	320.65
						800.29	335.68	320.65
						803.20	335.88	320.65
						808.64	325.74	320.65
						808.44	321.96	320.65
						805.66	317.32	320.65
						802.08	315.87	320.65
						792.00	314.34	320.65
						790.54	318.05	320.65
1054				321.26		793.06	327.00	321.26
						799.16	337.41	321.26
						801.75	337.94	321.26
						804.86	337.21	321.26
						810.83	325.61	321.26
						810.83	322.16	321.26
						807.91	316.66	321.26
						803.73	314.41	321.26
						793.00	312.55	321.26
						790.28	313.81	321.26
						788.69	316.79	321.26
						792.93	326.87	321.26
1056				321.87		759.66	309.90	321.87
						772.32	308.97	321.87
						787.89	323.36	321.87
						794.45	338.27	321.87
						793.59	353.91	321.87
						781.53	373.33	321.87
						776.63	380.09	321.87

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						772.91	384.80	321.87
1070				326.14		670.83	439.43	326.14
						666.58	434.66	326.14
						676.66	423.79	326.14
						665.52	412.39	326.14
						668.71	410.00	326.14
						686.87	407.08	326.14
						692.57	418.62	326.14
1070				326.14		727.23	400.16	326.14
						746.52	405.58	326.14
1070				326.14		727.09	399.61	326.14
						727.30	395.02	326.14
						726.37	357.64	326.14
1070				326.14		725.50	368.14	326.14
						724.77	342.57	326.14
						724.66	336.05	326.14
						724.13	334.16	326.14
						720.98	331.31	326.14
						719.19	330.58	326.14
						718.24	330.79	326.14
						703.62	330.05	326.14
						696.04	330.58	326.14
						684.57	331.63	326.14
						677.84	332.37	326.14
						673.21	333.00	326.14
						669.74	334.79	326.14
1070				326.14		671.95	328.93	326.14
						667.57	331.58	326.14
						663.59	334.89	326.14
						660.15	340.86	326.14
						659.09	342.85	326.14
						658.16	347.62	326.14
						654.69	378.45	326.14
						654.06	385.81	326.14
						649.95	382.55	326.14
						646.06	385.18	326.14
						646.69	355.72	326.14
						647.32	344.67	326.14
						649.01	337.41	326.14
						652.27	329.94	326.14
						655.74	325.31	326.14
						661.04	320.41	326.14
						667.27	316.17	326.14
						671.91	314.58	326.14
1072				326.75		646.47	408.62	326.75
						643.42	412.83	326.75
						650.99	424.20	326.75

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						643.31	435.45	326.75
						646.78	439.45	326.75
1060				323.09		702.24	324.23	323.09
						715.16	324.43	323.09
						720.86	324.96	323.09
						724.44	326.62	323.09
						726.83	328.48	323.09
						729.68	331.72	323.09
						730.34	334.94	323.09
						730.76	343.00	323.09
1060				323.09		731.59	350.60	323.09
						732.17	361.87	323.09
						732.84	371.22	323.09
						733.34	390.77	323.09
						738.08	392.03	323.09
						740.81	394.34	323.09
						747.23	394.87	323.09
						746.60	399.29	323.09
						755.86	401.50	323.09
						764.27	392.87	323.09
1060				323.09		718.92	321.84	323.09
						721.97	317.87	323.09
						718.59	314.03	323.09
1076				327.96		692.33	406.47	327.96
						696.64	414.47	327.96
1074				327.36		665.66	335.54	327.36
						662.29	340.06	327.36
						659.97	347.11	327.36
						655.77	388.25	327.36
						658.61	391.83	327.36
						659.03	385.83	327.36
						659.03	369.94	327.36
						663.87	353.95	327.36
						665.02	346.16	327.36
						665.41	341.62	327.36
						666.00	338.27	327.36
						668.96	334.53	327.36
1074				327.36		695.12	416.21	327.36
						690.53	406.02	327.36
						719.42	405.85	327.36
						723.76	403.18	327.36
						728.19	402.43	327.36
						742.47	406.86	327.36
1080				329.18		651.28	324.48	329.18
						646.78	332.96	329.18
						644.13	338.13	329.18
						643.07	347.94	329.18

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
1062				323.70		694.89	323.12	323.70
						698.47	319.14	323.70
						694.49	314.76	323.70
1064				324.31		672.88	326.03	324.31
						674.07	320.60	324.31
						670.10	318.21	324.31
1066				324.92		658.70	339.55	324.92
						656.05	335.05	324.92
						650.61	336.90	324.92
1068				325.53		647.30	361.96	325.53
						651.54	358.38	325.53
						655.52	361.83	325.53

Sound Level Spectra

Name	ID	Type	Oktave Spectrum (dB)												Source
			Weight.	31.5	63	125	250	500	1000	2000	4000	8000	A	lin	
Forklift	S22	Lw			114.6	108.6	98.6	96.6	93.6	91.6	85.6	76.6	100.1	115.8	DEFRA
Delivery Truck	S15	Lw			111.8	111.8	100.8	102.8	98.8	96.8	95.8	87.8	105.3	115.4	DEFRA
Backup Alarm	L1	Lw (c)	A	-39.4	-26.2	-16.1	-8.6	-3.2	110.7	1.2	1.0	-1.1	110.7	110.7	Measurement
Mitsubishi PURY-P120ZKMU-A	Mech1	Lw (c)			53.6	62.2	67.2	66.1	66.3	63.0	56.3	51.2	70.1	72.6	Manufacturer
Carrier 48HC07	Mech2	Lw			90.1	82.6	81.0	79.4	77.0	73.0	70.4	66.7	82.0	91.8	Manufacturer

Eilar Associates, Inc.

210 South Juniper Street, Suite 100

Escondido, California 92025-4230

Phone: (760) 738-5570

Date: 23 Jun 2020

Calculation Configuration

Configuration	
Parameter	Value
General	
Country	(user defined)
Max. Error (dB)	0.00
Max. Search Radius (#(Unit,LEN))	2000.00
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (#(Unit,LEN))	1000.00
Min. Length of Section (#(Unit,LEN))	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	960.00
Reference Time Night (min)	480.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	0.00
Night-time Penalty (dB)	0.00
DTM	
Standard Height (m)	0.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	0
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rcvr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	Excl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (#(Unit,TEMP))	10
rel. Humidity (%)	70
Ground Absorption G	0.70
Wind Speed for Dir. (#(Unit,SPEED))	3.0
Roads (TNM)	
Railways (Schall 03 (1990))	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	

Receivers

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height	Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type		X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)	(m)	(m)	(m)
R1			49.0	22.8	50.0	45.0				1.52 r	776.62	384.67	323.23
R2			54.2	25.9	65.0	60.0				1.52 r	786.47	299.23	322.91
R3			55.4	25.4	65.0	60.0				1.52 r	750.44	299.91	323.03
R4			50.8	26.2	65.0	60.0				1.52 r	700.13	300.74	323.08
R5			41.5	22.6	65.0	60.0				1.52 r	659.34	302.42	323.08
R6			51.7	31.4	65.0	60.0				1.52 r	637.91	355.79	332.63

Point Sources

Name	M.	ID	Result. PWL			Lw / Li			Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.	Height		Coordinates		
			Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night						X	Y	Z
			(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(m²)		(min)	(min)	(min)	(dB)	(Hz)		(m)		(m)	(m)	(m)
Rooftop Unit			82.0	82.0	82.0	Lw	Mech2		0.0	0.0	0.0				30.00	0.00	30.00	0.0		(none)	336.44	a	698.03	366.67	336.44
Rooftop Unit			82.0	82.0	82.0	Lw	Mech2		0.0	0.0	0.0				30.00	0.00	30.00	0.0		(none)	336.44	a	697.82	362.63	336.44
Heat Pump			70.1	70.1	70.1	Lw	Mech1		0.0	0.0	0.0				30.00	0.00	30.00	0.0		(none)	1.52	r	778.22	354.13	324.12
Heat Pump			70.1	70.1	70.1	Lw	Mech1		0.0	0.0	0.0				30.00	0.00	30.00	0.0		(none)	336.96	a	697.66	358.27	336.96
Backup Alarm	BU2		110.7	110.7	110.7	Lw	L1		0.0	0.0	0.0				1.00	0.00	0.00	0.0		(none)	2.44	r	774.28	336.67	325.06
Backup Alarm	BU1		110.7	110.7	110.7	Lw	L1		0.0	0.0	0.0				1.00	0.00	0.00	0.0		(none)	2.44	r	762.30	336.93	325.06

Line Sources

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li			Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.	Moving Pt. Src			
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night				Number			Speed
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(m²)		(min)	(min)	(min)	(dB)	(Hz)		Day	Evening	Night	(km/h)
Delivery Trucks			94.6	-11.4	-11.4	71.3	-34.7	-34.7	PWL-Pt	S15		0.0	0.0	0.0							0.0		(none)	4.0	0.0	0.0	10.0

Geometry - Line Sources

Name	Height			Coordinates			
	Begin		End	x	y	z	Ground
	(m)		(m)	(m)	(m)	(m)	(m)
Delivery Trucks	0.00	r		649.41	415.58	326.72	326.72
				650.08	382.34	326.14	326.14
				651.58	358.79	325.53	325.53
				655.76	335.41	324.92	324.92
				674.13	321.04	324.33	324.33
				698.85	318.87	323.61	323.61
				722.23	317.70	323.07	323.07
				754.80	318.20	322.17	322.17
				767.83	323.38	322.25	322.25
				767.66	337.08	322.63	322.63

Area Sources

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.	Moving Pt. Src		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night				Number		
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(m²)		(min)	(min)	(min)	(dB)	(Hz)		Day	Evening	Night
Forklift			100.1	0.1	0.1	68.7	-31.3	-31.3	PWL-Pt	S22		0.0	0.0	0.0				24.00	0.00	0.00	0.0		(none)	1.0	0.0	0.0

Geometry - Area Sources

Name	Height			Coordinates			
	Begin	End		x	y	z	Ground
	(m)	(m)		(m)	(m)	(m)	(m)
Forklift	1.52	r		752.83	359.43	324.47	322.95
				736.82	361.44	325.30	323.78
				737.16	389.97	324.98	323.46
				759.51	390.14	325.48	323.96
				789.05	352.52	323.60	322.08
				789.30	337.86	323.62	322.10
				783.65	324.66	323.56	322.04
				777.48	318.01	323.53	322.01
				778.81	335.25	324.04	322.52
				780.25	357.80	323.93	322.41

Barriers

Name	M.	ID	Absorption		Z-Ext.	Cantilever		Height		
			left	right		horz.	vert.	Begin		End
					(m)	(m)	(m)	(m)		(m)
Barrier Wall								2.10	r	

Geometry - Barriers

Name	M.	ID	Absorption		Z-Ext.	Cantilever		Height		Coordinates			
			left	right		horz.	vert.	Begin	End	x	y	z	Ground
					(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
Barrier Wall								2.10	r	789.54	321.25	323.54	321.44
										797.83	337.95	323.52	321.42
										796.34	354.24	323.43	321.33
										781.16	377.24	323.61	321.51
										750.56	409.54	326.17	324.07

Buildings

Name	M.	ID	RB	Residents	Absorption	Height
						Begin
						(m)
			x	0		
			x	0		
			x	0		
			x	0		
Warehouse			x	0		
Office Buiding			x	0		
Office Buiding 2nd floor			x	0		

Geometry - Buildings

Name	M.	ID	RB	Residents	Absorption	Height	Coordinates			
						Begin	x	y	z	Ground
						(m)	(m)	(m)	(m)	(m)
			x	0			556.88	490.97	335.28	329.18
							598.84	491.24	335.28	329.18
							598.04	456.56	335.28	329.18
							556.36	456.96	335.28	329.18
			x	0			466.79	589.88	340.77	334.06
							528.19	588.29	340.77	334.06
							527.67	565.00	340.77	334.06
							466.26	566.59	340.77	334.06
			x	0			466.26	638.58	340.46	335.00
							528.19	637.52	340.46	335.00
							527.14	617.40	340.46	335.00
							466.79	617.93	340.46	335.00
			x	0			569.48	576.11	335.28	328.88
							610.77	575.59	335.28	328.88
							609.19	547.00	335.28	328.88
							567.37	549.12	335.28	328.88
Warehouse			x	0			752.50	355.67	328.42	322.63
							777.52	355.05	328.42	322.63
							777.25	337.08	328.42	322.63
							751.95	337.14	328.42	322.63
Office Buiding			x	0			681.15	382.66	331.77	326.44
							707.74	382.25	331.77	326.44
							707.41	351.57	331.77	326.44
							680.48	351.98	331.77	326.44
Office Buiding 2nd floor			x	0			707.65	373.53	335.44	326.44
							687.64	373.64	335.44	326.44
							687.90	351.95	335.44	326.44
							707.34	351.74	335.44	326.44

Terrain Contours

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
				327.05	325.53	639.60	551.05	327.05
						723.76	547.88	325.53
				323.70	322.17	640.66	783.97	323.70
						709.47	759.09	322.17
1040				316.99		765.63	457.96	316.99
						768.47	448.03	316.99
						775.15	440.42	316.99
						789.91	411.11	316.99
						788.19	418.46	316.99
						791.30	420.11	316.99
						791.23	417.86	316.99
						800.23	411.94	316.99
						800.40	405.69	316.99
						804.57	394.84	316.99
						804.70	388.95	316.99
						805.10	384.52	316.99
						804.57	383.46	316.99
						793.72	405.43	316.99
						793.45	403.84	316.99
						806.53	378.95	316.99
						810.36	368.39	316.99
						820.13	356.47	316.99
						829.22	343.89	316.99
						835.55	333.72	316.99
						837.39	338.97	316.99
						842.47	343.39	316.99
						842.72	329.88	316.99
						842.71	324.03	316.99
						865.37	277.64	316.99
1040				316.99		773.52	435.05	316.99
						770.08	434.32	316.99
						770.94	423.07	316.99
						777.43	414.41	316.99
						781.00	417.45	316.99
						779.01	424.40	316.99
						775.84	429.62	316.99
						773.85	435.18	316.99
1040				316.99		762.47	457.48	316.99
						763.73	448.81	316.99
						767.70	441.34	316.99
						768.10	431.81	316.99
						768.89	423.07	316.99
						773.65	416.46	316.99
						778.35	412.69	316.99
						781.46	409.77	316.99

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						785.10	397.00	316.99
						790.46	384.90	316.99
						796.72	375.65	316.99
						801.15	367.75	316.99
						815.91	346.45	316.99
						821.34	339.53	316.99
						827.49	327.87	316.99
						829.29	322.15	316.99
						833.15	317.58	316.99
						835.27	314.23	316.99
						835.58	309.40	316.99
						837.68	302.10	316.99
						840.07	297.62	316.99
						840.96	292.89	316.99
						842.54	285.85	316.99
						844.74	284.33	316.99
						844.32	277.08	316.99
1045				318.52		867.57	278.12	318.52
						844.98	323.97	318.52
						844.72	358.94	318.52
						842.22	358.90	318.52
						835.26	363.36	318.52
						829.63	373.40	318.52
						827.55	376.16	318.52
						822.66	384.82	318.52
						822.82	389.70	318.52
						821.14	391.17	318.52
						816.81	394.68	318.52
						815.01	396.80	318.52
						809.76	404.26	318.52
						812.14	409.55	318.52
						806.65	419.74	318.52
						795.40	434.10	318.52
						789.85	445.61	318.52
						787.27	451.50	318.52
						785.41	458.58	318.52
1045				318.52		838.60	279.13	318.52
						837.81	286.06	318.52
						837.86	295.78	318.52
						830.11	311.99	318.52
						823.36	322.08	318.52
						815.32	341.05	318.52
						809.32	353.30	318.52
						792.09	379.25	318.52
						781.34	400.00	318.52
						772.83	410.93	318.52
						767.08	416.51	318.52

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						761.76	421.74	318.52
						762.42	430.66	318.52
						760.09	441.66	318.52
						755.34	450.58	318.52
						754.34	461.50	318.52
1050				320.04		751.40	456.24	320.04
						751.07	452.86	320.04
						753.25	449.22	320.04
						756.17	443.27	320.04
						758.08	437.12	320.04
1050				320.04		787.12	458.73	320.04
						790.62	447.35	320.04
						795.52	437.09	320.04
						798.69	432.93	320.04
						802.86	428.56	320.04
						805.94	426.57	320.04
						812.21	426.88	320.04
						818.35	422.34	320.04
						820.66	407.55	320.04
						820.61	400.24	320.04
						825.98	396.53	320.04
						832.48	395.58	320.04
						834.02	393.41	320.04
						833.95	387.28	320.04
						833.32	379.41	320.04
						836.37	372.58	320.04
						843.19	368.69	320.04
						847.56	363.14	320.04
						847.56	323.64	320.04
						853.34	311.04	320.04
						863.84	301.17	320.04
1050				320.04		757.87	421.07	320.04
						764.44	415.61	320.04
						765.44	410.20	320.04
						771.53	409.21	320.04
						775.10	404.85	320.04
						779.46	399.54	320.04
						783.66	390.30	320.04
						789.08	380.04	320.04
						792.33	374.29	320.04
						794.77	372.30	320.04
						801.52	359.27	320.04
						803.77	352.32	320.04
						808.87	346.96	320.04
						809.96	342.40	320.04
						808.84	340.01	320.04
						810.16	339.52	320.04

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						812.08	338.86	320.04
						815.32	330.19	320.04
						818.52	322.73	320.04
						820.57	318.21	320.04
						823.93	310.28	320.04
						831.48	301.35	320.04
						834.65	298.51	320.04
						835.91	277.33	320.04
1055				321.56		635.48	264.99	321.56
						635.90	293.50	321.56
						637.40	302.42	321.56
						639.82	303.08	321.56
						642.86	304.45	321.56
						736.01	302.03	321.56
						755.59	301.87	321.56
						770.18	301.78	321.56
						772.35	303.03	321.56
						777.43	301.78	321.56
						785.10	302.12	321.56
						781.93	305.28	321.56
						776.76	305.45	321.56
						771.01	307.79	321.56
1055				321.56		776.31	388.94	321.56
						779.08	390.13	321.56
						773.79	400.71	321.56
						765.06	404.68	321.56
						751.56	416.46	321.56
						746.38	422.78	321.56
						744.53	423.77	321.56
						741.24	423.27	321.56
						740.16	421.60	321.56
						738.57	423.89	321.56
						744.95	424.69	321.56
						747.03	425.81	321.56
						749.20	426.64	321.56
						752.98	429.63	321.56
						756.78	434.51	321.56
						755.29	440.30	321.56
						754.30	444.55	321.56
						752.25	449.70	321.56
						750.72	450.96	321.56
						749.67	450.96	321.56
						749.15	453.42	321.56
						750.04	454.37	321.56
						750.15	456.89	321.56
1055				321.56		866.77	361.33	321.56
						863.72	361.43	321.56

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						858.68	367.63	321.56
						853.33	377.08	321.56
						847.66	379.92	321.56
						863.41	396.30	321.56
						863.72	401.56	321.56
						868.66	408.59	321.56
						895.00	423.60	321.56
1055				321.56		787.82	458.34	321.56
						796.23	438.70	321.56
						803.37	431.25	321.56
						807.88	429.57	321.56
						818.49	436.18	321.56
						813.77	436.81	321.56
						811.14	440.17	321.56
						811.88	443.64	321.56
						813.24	444.06	321.56
						810.93	448.89	321.56
						812.61	459.29	321.56
1055				321.56		814.61	312.52	321.56
						819.03	309.40	321.56
						819.20	304.02	321.56
						814.15	311.56	321.56
						815.32	313.27	321.56
1060				323.09		633.28	266.49	323.09
						632.82	291.16	323.09
						634.01	303.73	323.09
						637.18	306.71	323.09
						667.81	306.77	323.09
						694.01	306.51	323.09
						700.63	309.22	323.09
						700.49	313.26	323.09
1060				323.09		732.45	350.70	323.09
						737.54	358.70	323.09
						749.78	359.76	323.09
						756.72	362.74	323.09
						760.96	369.42	323.09
						761.55	373.13	323.09
						764.26	381.29	323.09
						764.84	394.37	323.09
						758.85	401.82	323.09
						750.56	412.48	323.09
						744.47	418.36	323.09
						733.91	422.51	323.09
1060				323.09		748.77	456.72	323.09
						748.09	449.10	323.09
						751.72	446.37	323.09
						752.19	443.59	323.09

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						752.92	442.07	323.09
						752.77	438.44	323.09
						753.13	437.50	323.09
						747.83	429.25	323.09
						741.99	425.25	323.09
						738.16	427.46	323.09
						734.95	424.38	323.09
						731.95	425.05	323.09
						729.28	428.59	323.09
						727.70	424.13	323.09
						725.41	422.29	323.09
						727.41	420.75	323.09
						729.53	425.25	323.09
						730.70	425.67	323.09
						732.07	422.38	323.09
						733.74	422.50	323.09
1065				324.61		629.79	266.86	324.61
						629.72	292.13	324.61
						631.14	304.73	324.61
						634.61	309.72	324.61
						641.91	310.67	324.61
						667.11	310.14	324.61
						681.50	310.46	324.61
						683.70	312.35	324.61
1065				324.61		738.30	363.31	324.61
						745.28	364.52	324.61
						748.76	366.48	324.61
						752.40	372.30	324.61
						754.45	379.84	324.61
						756.21	384.51	324.61
						755.84	389.13	324.61
						755.53	394.33	324.61
1065				324.61		749.50	409.28	324.61
						745.40	412.94	324.61
						738.54	418.33	324.61
						730.20	418.40	324.61
						724.91	419.66	324.61
						719.61	419.86	324.61
						702.68	423.30	324.61
						706.71	423.83	324.61
						706.58	426.01	324.61
						711.34	427.46	324.61
						713.06	430.24	324.61
						717.63	430.97	324.61
						727.62	433.22	324.61
						734.96	434.87	324.61
						744.74	435.04	324.61

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						749.50	436.89	324.61
						749.42	441.68	324.61
						747.57	446.64	324.61
						746.05	451.01	324.61
						746.31	457.76	324.61
1065				324.61		738.48	455.52	324.61
						735.36	452.66	324.61
						735.75	443.41	324.61
						737.00	445.14	324.61
						738.46	445.28	324.61
						739.50	446.35	324.61
						739.67	448.85	324.61
						740.96	451.41	324.61
						742.21	452.72	324.61
						741.23	455.89	324.61
						738.88	455.87	324.61
1070				326.14		625.93	267.74	326.14
						625.63	279.95	326.14
						626.88	296.91	326.14
						627.99	305.89	326.14
						630.14	311.72	326.14
						636.55	313.92	326.14
						643.16	314.24	326.14
						654.77	313.14	326.14
						671.36	313.56	326.14
1070				326.14		689.17	419.65	326.14
						707.45	417.34	326.14
						716.90	416.08	326.14
						728.97	415.98	326.14
						738.63	414.79	326.14
						744.39	409.96	326.14
1070				326.14		747.63	390.97	326.14
						746.18	379.13	326.14
						742.29	370.30	326.14
						739.40	367.63	326.14
						732.79	367.05	326.14
1070				326.14		729.70	455.45	326.14
						731.79	447.45	326.14
						733.83	449.20	326.14
						731.75	458.16	326.14
1075				327.66		621.45	268.98	327.66
						622.60	289.67	327.66
						625.75	310.46	327.66
						630.90	316.34	327.66
						643.82	316.97	327.66
						663.45	316.97	327.66
1080				329.18		611.37	325.72	329.18

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						613.55	318.58	329.18
						613.02	302.04	329.18
						615.60	290.66	329.18
						619.04	286.36	329.18
						621.56	308.39	329.18
						624.73	317.19	329.18
						631.28	319.44	329.18
						641.60	320.30	329.18
						643.12	328.77	329.18
						641.55	365.31	329.18
						637.05	409.77	329.18
1085				330.71		611.00	353.52	330.71
						624.17	321.10	330.71
						639.67	323.35	330.71
						641.17	342.94	330.71
						637.50	372.66	330.71
						625.99	404.67	330.71
						621.66	413.67	330.71
						619.16	413.00	330.71
						609.49	415.58	330.71
1090				332.23		610.76	365.79	332.23
						635.96	338.80	332.23
						633.44	354.24	332.23
						625.36	383.85	332.23
						617.48	402.23	332.23
						611.18	411.05	332.23
						602.99	412.42	332.23
Golden Gate Circle		R_6				626.93	736.30	324.31
						620.90	444.39	327.66
						618.07	437.98	327.66
						613.87	435.67	327.66
Elm Street		R_6				442.05	94.43	321.87
						444.57	341.51	340.77
						447.93	563.37	332.54
						451.46	806.69	330.71
Madison Ave		R_3				83.87	429.38	333.15
						196.08	429.86	328.27
						262.77	427.86	337.41
						358.81	429.20	334.67
						436.18	428.53	336.80
						486.20	429.20	333.15
						615.41	429.55	327.66
15 SB		R_2				96.74	953.36	337.72
						744.27	803.56	323.70
						1026.67	741.49	327.05
15 NB		R_1				325.72	949.26	332.84
						796.15	836.38	325.22

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						1019.79	781.18	327.66
15 NB		R_1				325.72	949.26	332.84
						796.15	836.38	325.22
						1019.79	781.18	327.66
Jefferson Ave SB		R_5				89.06	182.08	321.56
						123.73	180.09	321.26
						229.74	159.22	322.17
						277.07	155.42	322.17
						340.75	159.89	321.87
						448.76	184.75	322.78
						505.09	197.42	321.87
						558.77	200.57	321.56
						621.21	195.28	319.43
						666.97	183.11	319.43
						709.32	167.23	318.52
						801.51	128.27	320.95
						852.58	117.09	320.95
						897.41	113.09	321.56
						1029.59	102.09	320.65
1052				320.65		790.35	318.32	320.65
						800.29	335.68	320.65
						803.20	335.88	320.65
						808.64	325.74	320.65
						808.44	321.96	320.65
						805.66	317.32	320.65
						802.08	315.87	320.65
						792.00	314.34	320.65
						790.54	318.05	320.65
1054				321.26		793.06	327.00	321.26
						799.16	337.41	321.26
						801.75	337.94	321.26
						804.86	337.21	321.26
						810.83	325.61	321.26
						810.83	322.16	321.26
						807.91	316.66	321.26
						803.73	314.41	321.26
						793.00	312.55	321.26
						790.28	313.81	321.26
						788.69	316.79	321.26
						792.93	326.87	321.26
1056				321.87		759.66	309.90	321.87
						772.32	308.97	321.87
						787.89	323.36	321.87
						794.45	338.27	321.87
						793.59	353.91	321.87
						781.53	373.33	321.87
						776.63	380.09	321.87

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						772.91	384.80	321.87
1070				326.14		670.83	439.43	326.14
						666.58	434.66	326.14
						676.66	423.79	326.14
						665.52	412.39	326.14
						668.71	410.00	326.14
						686.87	407.08	326.14
						692.57	418.62	326.14
1070				326.14		727.23	400.16	326.14
						746.52	405.58	326.14
1070				326.14		727.09	399.61	326.14
						727.30	395.02	326.14
						726.37	357.64	326.14
1070				326.14		725.50	368.14	326.14
						724.77	342.57	326.14
						724.66	336.05	326.14
						724.13	334.16	326.14
						720.98	331.31	326.14
						719.19	330.58	326.14
						718.24	330.79	326.14
						703.62	330.05	326.14
						696.04	330.58	326.14
						684.57	331.63	326.14
						677.84	332.37	326.14
						673.21	333.00	326.14
						669.74	334.79	326.14
1070				326.14		671.95	328.93	326.14
						667.57	331.58	326.14
						663.59	334.89	326.14
						660.15	340.86	326.14
						659.09	342.85	326.14
						658.16	347.62	326.14
						654.69	378.45	326.14
						654.06	385.81	326.14
						649.95	382.55	326.14
						646.06	385.18	326.14
						646.69	355.72	326.14
						647.32	344.67	326.14
						649.01	337.41	326.14
						652.27	329.94	326.14
						655.74	325.31	326.14
						661.04	320.41	326.14
						667.27	316.17	326.14
						671.91	314.58	326.14
1072				326.75		646.47	408.62	326.75
						643.42	412.83	326.75
						650.99	424.20	326.75

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						643.31	435.45	326.75
						646.78	439.45	326.75
1060				323.09		702.24	324.23	323.09
						715.16	324.43	323.09
						720.86	324.96	323.09
						724.44	326.62	323.09
						726.83	328.48	323.09
						729.68	331.72	323.09
						730.34	334.94	323.09
						730.76	343.00	323.09
1060				323.09		731.59	350.60	323.09
						732.17	361.87	323.09
						732.84	371.22	323.09
						733.34	390.77	323.09
						738.08	392.03	323.09
						740.81	394.34	323.09
						747.23	394.87	323.09
						746.60	399.29	323.09
						755.86	401.50	323.09
						764.27	392.87	323.09
1060				323.09		718.92	321.84	323.09
						721.97	317.87	323.09
						718.59	314.03	323.09
1076				327.96		692.33	406.47	327.96
						696.64	414.47	327.96
1074				327.36		665.66	335.54	327.36
						662.29	340.06	327.36
						659.97	347.11	327.36
						655.77	388.25	327.36
						658.61	391.83	327.36
						659.03	385.83	327.36
						659.03	369.94	327.36
						663.87	353.95	327.36
						665.02	346.16	327.36
						665.41	341.62	327.36
						666.00	338.27	327.36
						668.96	334.53	327.36
1074				327.36		695.12	416.21	327.36
						690.53	406.02	327.36
						719.42	405.85	327.36
						723.76	403.18	327.36
						728.19	402.43	327.36
						742.47	406.86	327.36
1080				329.18		651.28	324.48	329.18
						646.78	332.96	329.18
						644.13	338.13	329.18
						643.07	347.94	329.18

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
1062				323.70		694.89	323.12	323.70
						698.47	319.14	323.70
						694.49	314.76	323.70
1064				324.31		672.88	326.03	324.31
						674.07	320.60	324.31
						670.10	318.21	324.31
1066				324.92		658.70	339.55	324.92
						656.05	335.05	324.92
						650.61	336.90	324.92
1068				325.53		647.30	361.96	325.53
						651.54	358.38	325.53
						655.52	361.83	325.53

Sound Level Spectra

Name	ID	Type	Oktave Spectrum (dB)												Source
			Weight.	31.5	63	125	250	500	1000	2000	4000	8000	A	lin	
Forklift	S22	Lw			114.6	108.6	98.6	96.6	93.6	91.6	85.6	76.6	100.1	115.8	DEFRA
Delivery Truck	S15	Lw			111.8	111.8	100.8	102.8	98.8	96.8	95.8	87.8	105.3	115.4	DEFRA
Backup Alarm	L1	Lw (c)	A	-39.4	-26.2	-16.1	-8.6	-3.2	110.7	1.2	1.0	-1.1	110.7	110.7	Measurement
Mitsubishi PURY-P120ZKMU-A	Mech1	Lw (c)			53.6	62.2	67.2	66.1	66.3	63.0	56.3	51.2	70.1	72.6	Manufacturer
Carrier 48HC07	Mech2	Lw			90.1	82.6	81.0	79.4	77.0	73.0	70.4	66.7	82.0	91.8	Manufacturer

S200508 - W.M. Lyles - Existing Traffic Model

Eilar Associates, Inc.

210 South Juniper Street, Suite 100

Escondido, California 92025-4230

Phone: (760) 738-5570

Date: 23 Jun 2020

Calculation Configuration

Configuration	
Parameter	Value
General	
Country	(user defined)
Max. Error (dB)	0.00
Max. Search Radius (#(Unit,LEN))	2000.00
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (#(Unit,LEN))	1000.00
Min. Length of Section (#(Unit,LEN))	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	960.00
Reference Time Night (min)	480.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	6.00
Night-time Penalty (dB)	10.00
DTM	
Standard Height (m)	0.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	0
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rcvr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	Excl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (#(Unit,TEMP))	10
rel. Humidity (%)	70
Ground Absorption G	0.70
Wind Speed for Dir. (#(Unit,SPEED))	3.0
Roads (TNM)	
Railways (Schall 03 (1990))	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	

Receivers

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height	Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type		X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)	(m)	(m)	(m)
Res ROW		Residential	57.0	-63.3	0.0	0.0		x	Total	1.52	486.06	420.69	334.93

Roads

Name	M.	ID	Lme			Count Data		exact Count Data						Speed Limit		SCS	Surface		Gradient	Mult. Reflection		
			Day	Evening	Night	DTV	Str.class.	M			p (%)			Auto	Truck	Dist.	Dstro	Type		Drefl	Hbuild	Dist.
			(dBA)	(dBA)	(dBA)			Day	Evening	Night	Day	Evening	Night	(km/h)	(km/h)		(dB)		(%)	(dB)	(m)	(m)
15 NB		R_1	80.3	0.0	0.0			8556.0	0.0	0.0	7.2	0.0	0.0	113		13.41	0.0	1	0.0	0.0		
15 SB		R_2	80.3	0.0	0.0			8556.0	0.0	0.0	7.2	0.0	0.0	113		13.41	0.0	1	0.0	0.0		
Madison Ave		R_3	52.9	0.0	0.0			92.0	0.0	0.0	8.0	0.0	0.0	56		5.49	0.0	1	0.0	0.0		
Madison Ave		R_3	50.7	0.0	0.0			55.0	0.0	0.0	8.0	0.0	0.0	56		5.49	0.0	1	0.0	0.0		
Jefferson Ave NB		R_4	68.3	0.0	0.0			1334.0	0.0	0.0	8.0	0.0	0.0	81		4.88	0.0	1	0.0	0.0		
Jefferson Ave SB		R_5	68.3	0.0	0.0			1334.0	0.0	0.0	8.0	0.0	0.0	81		4.88	0.0	1	0.0	0.0		
Elm Street		R_6	56.9	0.0	0.0			230.0	0.0	0.0	8.0	0.0	0.0	56		4.88	0.0	1	0.0	0.0		

Geometry - Roads

Name	Height			Coordinates				Dist	LSlope
	Begin	End		x	y	z	Ground	(m)	(%)
	(m)	(m)		(m)	(m)	(m)	(m)		
15 NB				325.72	949.26	332.84	332.84		
				796.15	836.38	325.22	325.22		
				1019.79	781.18	327.66	327.66		
15 SB				96.74	953.36	337.72	337.72		
				744.27	803.56	323.70	323.70		
				1026.67	741.49	327.05	327.05		
Madison Ave				83.87	429.38	333.15	333.15		
				196.08	429.86	328.27	328.27		
				262.77	427.86	337.41	337.41		
				358.81	429.20	334.67	334.67		
				436.18	428.53	336.80	336.80		
Madison Ave				436.18	428.53	336.80	336.80		
				486.20	429.20	333.15	333.15		
				615.41	429.55	327.66	327.66		
Jefferson Ave NB				89.06	195.70	321.56	321.56		
				123.73	193.44	321.56	321.56		
				229.74	171.77	322.17	322.17		
				277.07	167.44	321.56	321.56		
				340.75	172.44	321.87	321.87		
				448.76	196.78	323.39	323.39		
				505.09	209.44	322.17	322.17		
				558.77	214.44	320.65	320.65		
				621.21	207.30	319.74	319.74		
				672.14	193.17	317.91	317.91		
				709.32	178.72	319.13	319.13		
				801.25	138.91	320.34	320.34		
				852.05	126.74	320.95	320.95		
				897.58	122.92	321.26	321.26		
				1029.33	110.39	319.43	319.43		
Jefferson Ave SB				89.06	182.08	321.56	321.56		
				123.73	180.09	321.26	321.26		

Name	Height		Coordinates				Dist	LSlope
	Begin	End	x	y	z	Ground	(m)	(%)
	(m)	(m)	(m)	(m)	(m)	(m)		
			229.74	159.22	322.17	322.17		
			277.07	155.42	322.17	322.17		
			340.75	159.89	321.87	321.87		
			448.76	184.75	322.78	322.78		
			505.09	197.42	321.87	321.87		
			558.77	200.57	321.56	321.56		
			621.21	195.28	319.43	319.43		
			666.97	183.11	319.43	319.43		
			709.32	167.23	318.52	318.52		
			801.51	128.27	320.95	320.95		
			852.58	117.09	320.95	320.95		
			897.41	113.09	321.56	321.56		
			1029.59	102.09	320.65	320.65		
Elm Street			442.05	94.43	321.87	321.87		
			444.57	341.51	340.77	340.77		
			447.93	563.37	332.54	332.54		
			451.46	806.69	330.71	330.71		

Buildings

Name	M.	ID	RB	Residents	Absorption	Height
						Begin
						(m)
			x	0		
			x	0		
			x	0		
			x	0		

Geometry - Buildings

Name	M.	ID	RB	Residents	Absorption	Height	Coordinates			
						Begin	x	y	z	Ground
						(m)	(m)	(m)	(m)	(m)
			x	0			556.88	490.97	335.28	329.18
							598.84	491.24	335.28	329.18
							598.04	456.56	335.28	329.18
							556.36	456.96	335.28	329.18
			x	0			466.79	589.88	340.77	334.06
							528.19	588.29	340.77	334.06
							527.67	565.00	340.77	334.06
							466.26	566.59	340.77	334.06
			x	0			466.26	638.58	340.46	335.00
							528.19	637.52	340.46	335.00
							527.14	617.40	340.46	335.00
							466.79	617.93	340.46	335.00
			x	0			569.48	576.11	335.28	328.88
							610.77	575.59	335.28	328.88
							609.19	547.00	335.28	328.88
							567.37	549.12	335.28	328.88

Terrain Contours

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
				327.05	325.53	639.60	551.05	327.05
						723.76	547.88	325.53
				323.70	322.17	640.66	783.97	323.70
						709.47	759.09	322.17
1040				316.99		765.63	457.96	316.99
						768.47	448.03	316.99
						775.15	440.42	316.99
						789.91	411.11	316.99
						788.19	418.46	316.99
						791.30	420.11	316.99
						791.23	417.86	316.99
						800.23	411.94	316.99
						800.40	405.69	316.99
						804.57	394.84	316.99
						804.70	388.95	316.99
						805.10	384.52	316.99
						804.57	383.46	316.99
						793.72	405.43	316.99
						793.45	403.84	316.99
						806.53	378.95	316.99
						810.36	368.39	316.99
						820.13	356.47	316.99
						829.22	343.89	316.99
						835.55	333.72	316.99
						837.39	338.97	316.99
						842.47	343.39	316.99
						842.72	329.88	316.99
						842.71	324.03	316.99
						865.37	277.64	316.99
1040				316.99		773.52	435.05	316.99
						770.08	434.32	316.99
						770.94	423.07	316.99
						777.43	414.41	316.99
						781.00	417.45	316.99
						779.01	424.40	316.99
						775.84	429.62	316.99
						773.85	435.18	316.99
1040				316.99		762.47	457.48	316.99
						763.73	448.81	316.99
						767.70	441.34	316.99
						768.10	431.81	316.99
						768.89	423.07	316.99
						773.65	416.46	316.99
						778.35	412.69	316.99
						781.46	409.77	316.99

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						785.10	397.00	316.99
						790.46	384.90	316.99
						796.72	375.65	316.99
						801.15	367.75	316.99
						815.91	346.45	316.99
						821.34	339.53	316.99
						827.49	327.87	316.99
						829.29	322.15	316.99
						833.15	317.58	316.99
						835.27	314.23	316.99
						835.58	309.40	316.99
						837.68	302.10	316.99
						840.07	297.62	316.99
						840.96	292.89	316.99
						842.54	285.85	316.99
						844.74	284.33	316.99
						844.32	277.08	316.99
1045				318.52		867.57	278.12	318.52
						844.98	323.97	318.52
						844.72	358.94	318.52
						842.22	358.90	318.52
						835.26	363.36	318.52
						829.63	373.40	318.52
						827.55	376.16	318.52
						822.66	384.82	318.52
						822.82	389.70	318.52
						821.14	391.17	318.52
						816.81	394.68	318.52
						815.01	396.80	318.52
						809.76	404.26	318.52
						812.14	409.55	318.52
						806.65	419.74	318.52
						795.40	434.10	318.52
						789.85	445.61	318.52
						787.27	451.50	318.52
						785.41	458.58	318.52
1045				318.52		838.60	279.13	318.52
						837.81	286.06	318.52
						837.86	295.78	318.52
						830.11	311.99	318.52
						823.36	322.08	318.52
						815.32	341.05	318.52
						809.32	353.30	318.52
						792.09	379.25	318.52
						781.34	400.00	318.52
						772.83	410.93	318.52
						767.08	416.51	318.52

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						761.76	421.74	318.52
						762.42	430.66	318.52
						760.09	441.66	318.52
						755.34	450.58	318.52
						754.34	461.50	318.52
1050				320.04		751.40	456.24	320.04
						751.07	452.86	320.04
						753.25	449.22	320.04
						756.17	443.27	320.04
						758.08	437.12	320.04
1050				320.04		787.12	458.73	320.04
						790.62	447.35	320.04
						795.52	437.09	320.04
						798.69	432.93	320.04
						802.86	428.56	320.04
						805.94	426.57	320.04
						812.21	426.88	320.04
						818.35	422.34	320.04
						820.66	407.55	320.04
						820.61	400.24	320.04
						825.98	396.53	320.04
						832.48	395.58	320.04
						834.02	393.41	320.04
						833.95	387.28	320.04
						833.32	379.41	320.04
						836.37	372.58	320.04
						843.19	368.69	320.04
						847.56	363.14	320.04
						847.56	323.64	320.04
						853.34	311.04	320.04
						863.84	301.17	320.04
1050				320.04		757.87	421.07	320.04
						764.44	415.61	320.04
						765.44	410.20	320.04
						771.53	409.21	320.04
						775.10	404.85	320.04
						779.46	399.54	320.04
						783.66	390.30	320.04
						789.08	380.04	320.04
						792.33	374.29	320.04
						794.77	372.30	320.04
						801.52	359.27	320.04
						803.77	352.32	320.04
						808.87	346.96	320.04
						794.94	338.03	320.04
						800.93	338.86	320.04
						809.96	342.40	320.04

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						808.84	340.01	320.04
						810.16	339.52	320.04
						812.08	338.86	320.04
						815.32	330.19	320.04
						818.52	322.73	320.04
						820.57	318.21	320.04
						823.93	310.28	320.04
						831.48	301.35	320.04
						834.65	298.51	320.04
						835.91	277.33	320.04
1055				321.56		635.48	264.99	321.56
						635.90	293.50	321.56
						637.40	302.42	321.56
						639.82	303.08	321.56
						642.86	304.45	321.56
						736.01	302.03	321.56
						755.59	301.87	321.56
						770.18	301.78	321.56
						772.35	303.03	321.56
						777.43	301.78	321.56
						785.10	302.12	321.56
						781.93	305.28	321.56
						776.76	305.45	321.56
						771.01	307.79	321.56
						770.93	310.95	321.56
						760.34	317.79	321.56
						756.93	324.62	321.56
						754.41	330.40	321.56
						756.82	334.70	321.56
						755.14	337.75	321.56
						762.60	343.42	321.56
						765.85	352.55	321.56
						772.34	362.21	321.56
						774.19	375.05	321.56
						776.31	388.94	321.56
						779.08	390.13	321.56
						773.79	400.71	321.56
						765.06	404.68	321.56
						751.56	416.46	321.56
						746.38	422.78	321.56
						744.53	423.77	321.56
						741.24	423.27	321.56
						740.16	421.60	321.56
						738.57	423.89	321.56
						744.95	424.69	321.56
						747.03	425.81	321.56
						749.20	426.64	321.56

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						752.98	429.63	321.56
						756.78	434.51	321.56
						755.29	440.30	321.56
						754.30	444.55	321.56
						752.25	449.70	321.56
						750.72	450.96	321.56
						749.67	450.96	321.56
						749.15	453.42	321.56
						750.04	454.37	321.56
						750.15	456.89	321.56
1055				321.56		866.77	361.33	321.56
						863.72	361.43	321.56
						858.68	367.63	321.56
						853.33	377.08	321.56
						847.66	379.92	321.56
						863.41	396.30	321.56
						863.72	401.56	321.56
						868.66	408.59	321.56
						895.00	423.60	321.56
1055				321.56		787.82	458.34	321.56
						796.23	438.70	321.56
						803.37	431.25	321.56
						807.88	429.57	321.56
						818.49	436.18	321.56
						813.77	436.81	321.56
						811.14	440.17	321.56
						811.88	443.64	321.56
						813.24	444.06	321.56
						810.93	448.89	321.56
						812.61	459.29	321.56
1055				321.56		814.61	312.52	321.56
						819.03	309.40	321.56
						819.20	304.02	321.56
						814.15	311.56	321.56
						815.32	313.27	321.56
1060				323.09		633.28	266.49	323.09
						632.82	291.16	323.09
						634.01	303.73	323.09
						637.18	306.71	323.09
						667.81	306.77	323.09
						694.01	306.51	323.09
						700.63	309.22	323.09
						700.49	313.26	323.09
						702.74	323.77	323.09
						704.79	332.90	323.09
						710.55	335.29	323.09
						724.04	342.76	323.09

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						732.45	350.70	323.09
						737.54	358.70	323.09
						749.78	359.76	323.09
						756.72	362.74	323.09
						760.96	369.42	323.09
						761.55	373.13	323.09
						764.26	381.29	323.09
						764.84	394.58	323.09
						758.85	401.82	323.09
						750.56	412.48	323.09
						744.47	418.36	323.09
						733.91	422.51	323.09
1060				323.09		748.77	456.72	323.09
						748.09	449.10	323.09
						751.72	446.37	323.09
						752.19	443.59	323.09
						752.92	442.07	323.09
						752.77	438.44	323.09
						753.13	437.50	323.09
						747.83	429.25	323.09
						741.99	425.25	323.09
						738.16	427.46	323.09
						734.95	424.38	323.09
						731.95	425.05	323.09
						729.28	428.59	323.09
						727.70	424.13	323.09
						725.41	422.29	323.09
						727.41	420.75	323.09
						729.53	425.25	323.09
						730.70	425.67	323.09
						732.07	422.38	323.09
						733.74	422.50	323.09
1065				324.61		629.79	266.86	324.61
						629.72	292.13	324.61
						631.14	304.73	324.61
						634.61	309.72	324.61
						641.91	310.67	324.61
						667.11	310.14	324.61
						681.50	310.46	324.61
						683.70	312.35	324.61
						682.13	315.76	324.61
						685.33	329.46	324.61
						685.66	343.55	324.61
						684.34	357.31	324.61
						692.31	364.26	324.61
						693.04	360.02	324.61
						694.69	358.17	324.61

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						696.48	355.26	324.61
						697.67	352.35	324.61
						701.04	349.30	324.61
						700.71	353.14	324.61
						700.18	358.30	324.61
						701.04	363.33	324.61
						703.75	363.46	324.61
						708.15	358.12	324.61
						711.36	353.62	324.61
						711.34	349.56	324.61
						710.44	346.59	324.61
						709.58	344.27	324.61
						706.01	342.32	324.61
						703.37	343.91	324.61
						702.57	344.34	324.61
						706.11	341.63	324.61
						708.82	342.92	324.61
						710.94	344.34	324.61
						712.43	346.98	324.61
						713.22	349.63	324.61
						712.83	356.15	324.61
						712.21	359.84	324.61
						709.43	362.93	324.61
						709.11	365.05	324.61
						705.50	368.99	324.61
						707.98	368.95	324.61
						708.15	370.54	324.61
						715.67	367.09	324.61
						716.93	367.25	324.61
						724.49	364.73	324.61
						738.30	363.31	324.61
						745.28	364.52	324.61
						748.76	366.48	324.61
						752.40	372.30	324.61
						754.45	379.84	324.61
						756.21	384.51	324.61
						755.84	389.13	324.61
						755.53	394.33	324.61
						752.39	405.22	324.61
						745.40	412.94	324.61
						738.54	418.33	324.61
						730.20	418.60	324.61
						724.97	420.25	324.61
						719.61	419.86	324.61
						702.68	423.30	324.61
						706.71	423.83	324.61
						706.58	426.01	324.61

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						711.34	427.46	324.61
						713.06	430.24	324.61
						717.63	430.97	324.61
						727.62	433.22	324.61
						734.96	434.87	324.61
						744.74	435.04	324.61
						749.50	436.89	324.61
						749.42	441.68	324.61
						747.57	446.64	324.61
						746.05	451.01	324.61
						746.31	457.76	324.61
1065				324.61		738.48	455.52	324.61
						735.36	452.66	324.61
						735.75	443.41	324.61
						737.00	445.14	324.61
						738.46	445.28	324.61
						739.50	446.35	324.61
						739.67	448.85	324.61
						740.96	451.41	324.61
						742.21	452.72	324.61
						741.23	455.89	324.61
						738.88	455.87	324.61
1070				326.14		625.93	267.74	326.14
						625.63	279.95	326.14
						626.88	296.91	326.14
						627.99	305.89	326.14
						630.14	311.72	326.14
						636.55	313.92	326.14
						643.16	314.24	326.14
						654.77	313.14	326.14
						671.36	313.56	326.14
						672.78	315.40	326.14
						670.78	331.52	326.14
						673.10	348.65	326.14
1070				326.14		667.43	449.90	326.14
						679.61	437.93	326.14
						694.21	437.93	326.14
						699.67	436.77	326.14
						682.24	436.04	326.14
						669.64	434.77	326.14
						669.11	431.10	326.14
						666.17	429.42	326.14
						659.03	429.10	326.14
						657.98	424.90	326.14
						655.99	422.17	326.14
						660.61	422.28	326.14
						670.90	419.86	326.14

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						689.17	419.65	326.14
						707.45	417.34	326.14
						716.90	416.08	326.14
						728.97	415.98	326.14
						738.63	414.79	326.14
						744.39	409.96	326.14
						748.03	402.55	326.14
						747.63	390.97	326.14
						746.18	379.13	326.14
						742.29	370.30	326.14
						739.40	367.63	326.14
						732.79	367.05	326.14
						727.38	368.10	326.14
						718.59	370.11	326.14
						717.80	372.42	326.14
						708.25	377.05	326.14
						697.69	388.07	326.14
						693.49	385.13	326.14
						689.34	386.29	326.14
						683.67	385.24	326.14
						679.63	380.88	326.14
						677.76	372.26	326.14
						678.49	351.69	326.14
						676.43	358.24	326.14
						676.63	370.81	326.14
						674.52	372.13	326.14
1070				326.14		729.70	455.45	326.14
						731.79	447.45	326.14
						733.83	449.20	326.14
						731.75	458.16	326.14
1075				327.66		621.45	268.98	327.66
						622.60	289.67	327.66
						625.75	310.46	327.66
						630.90	316.34	327.66
						643.82	316.97	327.66
						663.45	316.97	327.66
						663.87	326.21	327.66
						664.04	345.38	327.66
						662.62	384.48	327.66
1075				327.66		614.71	438.35	327.66
						611.14	436.88	327.66
						620.91	422.70	327.66
						635.40	420.07	327.66
						669.85	417.45	327.66
1080				329.18		611.37	325.72	329.18
						613.55	318.58	329.18
						613.02	302.04	329.18

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						615.60	290.66	329.18
						619.04	286.36	329.18
						621.56	308.39	329.18
						624.73	317.19	329.18
						631.28	319.44	329.18
						641.60	320.30	329.18
						643.12	328.77	329.18
						641.55	365.31	329.18
						637.05	409.77	329.18
1080				329.18		611.10	418.42	329.18
						633.72	416.17	329.18
						669.74	413.67	329.18
						653.36	413.04	329.18
1085				330.71		611.00	353.52	330.71
						624.17	321.10	330.71
						639.67	323.35	330.71
						641.17	342.94	330.71
						637.50	372.66	330.71
						625.99	404.67	330.71
						621.66	413.67	330.71
						619.16	413.00	330.71
						609.49	415.58	330.71
1090				332.23		610.76	365.79	332.23
						635.96	338.80	332.23
						633.44	354.24	332.23
						625.36	383.85	332.23
						617.48	402.23	332.23
						611.18	411.05	332.23
						602.99	412.42	332.23
Golden Gate Circle		R_6				626.93	736.30	324.31
						620.90	444.39	327.66
						618.07	437.98	327.66
						613.87	435.67	327.66

S200508 - W.M. Lyles - Existing + Project Traffic Model

Eilar Associates, Inc.

210 South Juniper Street, Suite 100

Escondido, California 92025-4230

Phone: (760) 738-5570

Date: 23 Jun 2020

Calculation Configuration

Configuration	
Parameter	Value
General	
Country	(user defined)
Max. Error (dB)	0.00
Max. Search Radius (#(Unit,LEN))	2000.00
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (#(Unit,LEN))	1000.00
Min. Length of Section (#(Unit,LEN))	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	960.00
Reference Time Night (min)	480.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	6.00
Night-time Penalty (dB)	10.00
DTM	
Standard Height (m)	0.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	0
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rcvr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	Excl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (#(Unit,TEMP))	10
rel. Humidity (%)	70
Ground Absorption G	0.70
Wind Speed for Dir. (#(Unit,SPEED))	3.0
Roads (TNM)	
Railways (Schall 03 (1990))	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	

Receivers

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height	Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type		X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)	(m)	(m)	(m)
Res ROW		Residential	57.7	-63.3	0.0	0.0		x	Total	1.52	486.06	420.69	334.93

Roads

Name	M.	ID	Lme			Count Data		exact Count Data						Speed Limit		SCS	Surface		Gradient	Mult. Reflection		
			Day	Evening	Night	DTV	Str.class.	M			p (%)			Auto	Truck	Dist.	Dstro	Type		Drefl	Hbuild	Dist.
			(dBA)	(dBA)	(dBA)			Day	Evening	Night	Day	Evening	Night	(km/h)	(km/h)		(dB)		(%)	(dB)	(m)	(m)
15 NB		R_1	80.3	0.0	0.0			8563.0	0.0	0.0	7.2	0.0	0.0	113		13.41	0.0	1	0.0	0.0		
15 SB		R_2	80.3	0.0	0.0			8563.0	0.0	0.0	7.2	0.0	0.0	113		13.41	0.0	1	0.0	0.0		
Madison Ave		R_3	53.5	0.0	0.0			105.0	0.0	0.0	8.0	0.0	0.0	56		5.49	0.0	1	0.0	0.0		
Madison Ave		R_3	51.6	0.0	0.0			68.0	0.0	0.0	8.0	0.0	0.0	56		5.49	0.0	1	0.0	0.0		
Jefferson Ave NB		R_4	68.3	0.0	0.0			1341.0	0.0	0.0	8.0	0.0	0.0	81		4.88	0.0	1	0.0	0.0		
Jefferson Ave SB		R_5	68.3	0.0	0.0			1341.0	0.0	0.0	8.0	0.0	0.0	81		4.88	0.0	1	0.0	0.0		
Elm Street		R_6	57.2	0.0	0.0			243.0	0.0	0.0	8.0	0.0	0.0	56		4.88	0.0	1	0.0	0.0		

Geometry - Roads

Name	Height			Coordinates				Dist	LSlope
	Begin	End		x	y	z	Ground	(m)	(%)
	(m)	(m)		(m)	(m)	(m)	(m)		
15 NB				325.72	949.26	332.84	332.84		
				796.15	836.38	325.22	325.22		
				1019.79	781.18	327.66	327.66		
15 SB				96.74	953.36	337.72	337.72		
				744.27	803.56	323.70	323.70		
				1026.67	741.49	327.05	327.05		
Madison Ave				83.87	429.38	333.15	333.15		
				196.08	429.86	328.27	328.27		
				262.77	427.86	337.41	337.41		
				358.81	429.20	334.67	334.67		
				436.18	428.53	336.80	336.80		
Madison Ave				436.18	428.53	336.80	336.80		
				486.20	429.20	333.15	333.15		
				615.41	429.55	327.66	327.66		
Jefferson Ave NB				89.06	195.70	321.56	321.56		
				123.73	193.44	321.56	321.56		
				229.74	171.77	322.17	322.17		
				277.07	167.44	321.56	321.56		
				340.75	172.44	321.87	321.87		
				448.76	196.78	323.39	323.39		
				505.09	209.44	322.17	322.17		
				558.77	214.44	320.65	320.65		
				621.21	207.30	319.74	319.74		
				672.14	193.17	317.91	317.91		
				709.32	178.72	319.13	319.13		
				801.25	138.91	320.34	320.34		
				852.05	126.74	320.95	320.95		
				897.58	122.92	321.26	321.26		
				1029.33	110.39	319.43	319.43		
Jefferson Ave SB				89.06	182.08	321.56	321.56		
				123.73	180.09	321.26	321.26		

S200508 - W.M. Lyles - Existing + Project Traffic Model

Name	Height		Coordinates				Dist	LSlope
	Begin	End	x	y	z	Ground	(m)	(%)
	(m)	(m)	(m)	(m)	(m)	(m)		
			229.74	159.22	322.17	322.17		
			277.07	155.42	322.17	322.17		
			340.75	159.89	321.87	321.87		
			448.76	184.75	322.78	322.78		
			505.09	197.42	321.87	321.87		
			558.77	200.57	321.56	321.56		
			621.21	195.28	319.43	319.43		
			666.97	183.11	319.43	319.43		
			709.32	167.23	318.52	318.52		
			801.51	128.27	320.95	320.95		
			852.58	117.09	320.95	320.95		
			897.41	113.09	321.56	321.56		
			1029.59	102.09	320.65	320.65		
Elm Street			442.05	94.43	321.87	321.87		
			444.57	341.51	340.77	340.77		
			447.93	563.37	332.54	332.54		
			451.46	806.69	330.71	330.71		

Buildings

Name	M.	ID	RB	Residents	Absorption	Height
						Begin
						(m)
			x	0		
			x	0		
			x	0		
			x	0		

Geometry - Buildings

Name	M.	ID	RB	Residents	Absorption	Height	Coordinates			
						Begin	x	y	z	Ground
						(m)	(m)	(m)	(m)	(m)
			x	0			556.88	490.97	335.28	329.18
							598.84	491.24	335.28	329.18
							598.04	456.56	335.28	329.18
							556.36	456.96	335.28	329.18
			x	0			466.79	589.88	340.77	334.06
							528.19	588.29	340.77	334.06
							527.67	565.00	340.77	334.06
							466.26	566.59	340.77	334.06
			x	0			466.26	638.58	340.46	335.00
							528.19	637.52	340.46	335.00
							527.14	617.40	340.46	335.00
							466.79	617.93	340.46	335.00
			x	0			569.48	576.11	335.28	328.88
							610.77	575.59	335.28	328.88
							609.19	547.00	335.28	328.88
							567.37	549.12	335.28	328.88

Terrain Contours

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
				327.05	325.53	639.60	551.05	327.05
						723.76	547.88	325.53
				323.70	322.17	640.66	783.97	323.70
						709.47	759.09	322.17
1040				316.99		765.63	457.96	316.99
						768.47	448.03	316.99
						775.15	440.42	316.99
						789.91	411.11	316.99
						788.19	418.46	316.99
						791.30	420.11	316.99
						791.23	417.86	316.99
						800.23	411.94	316.99
						800.40	405.69	316.99
						804.57	394.84	316.99
						804.70	388.95	316.99
						805.10	384.52	316.99
						804.57	383.46	316.99
						793.72	405.43	316.99
						793.45	403.84	316.99
						806.53	378.95	316.99
						810.36	368.39	316.99
						820.13	356.47	316.99
						829.22	343.89	316.99
						835.55	333.72	316.99
						837.39	338.97	316.99
						842.47	343.39	316.99
						842.72	329.88	316.99
						842.71	324.03	316.99
						865.37	277.64	316.99
1040				316.99		773.52	435.05	316.99
						770.08	434.32	316.99
						770.94	423.07	316.99
						777.43	414.41	316.99
						781.00	417.45	316.99
						779.01	424.40	316.99
						775.84	429.62	316.99
						773.85	435.18	316.99
1040				316.99		762.47	457.48	316.99
						763.73	448.81	316.99
						767.70	441.34	316.99
						768.10	431.81	316.99
						768.89	423.07	316.99
						773.65	416.46	316.99
						778.35	412.69	316.99
						781.46	409.77	316.99

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						785.10	397.00	316.99
						790.46	384.90	316.99
						796.72	375.65	316.99
						801.15	367.75	316.99
						815.91	346.45	316.99
						821.34	339.53	316.99
						827.49	327.87	316.99
						829.29	322.15	316.99
						833.15	317.58	316.99
						835.27	314.23	316.99
						835.58	309.40	316.99
						837.68	302.10	316.99
						840.07	297.62	316.99
						840.96	292.89	316.99
						842.54	285.85	316.99
						844.74	284.33	316.99
						844.32	277.08	316.99
1045				318.52		867.57	278.12	318.52
						844.98	323.97	318.52
						844.72	358.94	318.52
						842.22	358.90	318.52
						835.26	363.36	318.52
						829.63	373.40	318.52
						827.55	376.16	318.52
						822.66	384.82	318.52
						822.82	389.70	318.52
						821.14	391.17	318.52
						816.81	394.68	318.52
						815.01	396.80	318.52
						809.76	404.26	318.52
						812.14	409.55	318.52
						806.65	419.74	318.52
						795.40	434.10	318.52
						789.85	445.61	318.52
						787.27	451.50	318.52
						785.41	458.58	318.52
1045				318.52		838.60	279.13	318.52
						837.81	286.06	318.52
						837.86	295.78	318.52
						830.11	311.99	318.52
						823.36	322.08	318.52
						815.32	341.05	318.52
						809.32	353.30	318.52
						792.09	379.25	318.52
						781.34	400.00	318.52
						772.83	410.93	318.52
						767.08	416.51	318.52

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						761.76	421.74	318.52
						762.42	430.66	318.52
						760.09	441.66	318.52
						755.34	450.58	318.52
						754.34	461.50	318.52
1050				320.04		751.40	456.24	320.04
						751.07	452.86	320.04
						753.25	449.22	320.04
						756.17	443.27	320.04
						758.08	437.12	320.04
1050				320.04		787.12	458.73	320.04
						790.62	447.35	320.04
						795.52	437.09	320.04
						798.69	432.93	320.04
						802.86	428.56	320.04
						805.94	426.57	320.04
						812.21	426.88	320.04
						818.35	422.34	320.04
						820.66	407.55	320.04
						820.61	400.24	320.04
						825.98	396.53	320.04
						832.48	395.58	320.04
						834.02	393.41	320.04
						833.95	387.28	320.04
						833.32	379.41	320.04
						836.37	372.58	320.04
						843.19	368.69	320.04
						847.56	363.14	320.04
						847.56	323.64	320.04
						853.34	311.04	320.04
						863.84	301.17	320.04
1050				320.04		757.87	421.07	320.04
						764.44	415.61	320.04
						765.44	410.20	320.04
						771.53	409.21	320.04
						775.10	404.85	320.04
						779.46	399.54	320.04
						783.66	390.30	320.04
						789.08	380.04	320.04
						792.33	374.29	320.04
						794.77	372.30	320.04
						801.52	359.27	320.04
						803.77	352.32	320.04
						808.87	346.96	320.04
						794.94	338.03	320.04
						800.93	338.86	320.04
						809.96	342.40	320.04

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						808.84	340.01	320.04
						810.16	339.52	320.04
						812.08	338.86	320.04
						815.32	330.19	320.04
						818.52	322.73	320.04
						820.57	318.21	320.04
						823.93	310.28	320.04
						831.48	301.35	320.04
						834.65	298.51	320.04
						835.91	277.33	320.04
1055				321.56		635.48	264.99	321.56
						635.90	293.50	321.56
						637.40	302.42	321.56
						639.82	303.08	321.56
						642.86	304.45	321.56
						736.01	302.03	321.56
						755.59	301.87	321.56
						770.18	301.78	321.56
						772.35	303.03	321.56
						777.43	301.78	321.56
						785.10	302.12	321.56
						781.93	305.28	321.56
						776.76	305.45	321.56
						771.01	307.79	321.56
						770.93	310.95	321.56
						760.34	317.79	321.56
						756.93	324.62	321.56
						754.41	330.40	321.56
						756.82	334.70	321.56
						755.14	337.75	321.56
						762.60	343.42	321.56
						765.85	352.55	321.56
						772.34	362.21	321.56
						774.19	375.05	321.56
						776.31	388.94	321.56
						779.08	390.13	321.56
						773.79	400.71	321.56
						765.06	404.68	321.56
						751.56	416.46	321.56
						746.38	422.78	321.56
						744.53	423.77	321.56
						741.24	423.27	321.56
						740.16	421.60	321.56
						738.57	423.89	321.56
						744.95	424.69	321.56
						747.03	425.81	321.56
						749.20	426.64	321.56

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						752.98	429.63	321.56
						756.78	434.51	321.56
						755.29	440.30	321.56
						754.30	444.55	321.56
						752.25	449.70	321.56
						750.72	450.96	321.56
						749.67	450.96	321.56
						749.15	453.42	321.56
						750.04	454.37	321.56
						750.15	456.89	321.56
1055				321.56		866.77	361.33	321.56
						863.72	361.43	321.56
						858.68	367.63	321.56
						853.33	377.08	321.56
						847.66	379.92	321.56
						863.41	396.30	321.56
						863.72	401.56	321.56
						868.66	408.59	321.56
						895.00	423.60	321.56
1055				321.56		787.82	458.34	321.56
						796.23	438.70	321.56
						803.37	431.25	321.56
						807.88	429.57	321.56
						818.49	436.18	321.56
						813.77	436.81	321.56
						811.14	440.17	321.56
						811.88	443.64	321.56
						813.24	444.06	321.56
						810.93	448.89	321.56
						812.61	459.29	321.56
1055				321.56		814.61	312.52	321.56
						819.03	309.40	321.56
						819.20	304.02	321.56
						814.15	311.56	321.56
						815.32	313.27	321.56
1060				323.09		633.28	266.49	323.09
						632.82	291.16	323.09
						634.01	303.73	323.09
						637.18	306.71	323.09
						667.81	306.77	323.09
						694.01	306.51	323.09
						700.63	309.22	323.09
						700.49	313.26	323.09
						702.74	323.77	323.09
						704.79	332.90	323.09
						710.55	335.29	323.09
						724.04	342.76	323.09

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						732.45	350.70	323.09
						737.54	358.70	323.09
						749.78	359.76	323.09
						756.72	362.74	323.09
						760.96	369.42	323.09
						761.55	373.13	323.09
						764.26	381.29	323.09
						764.84	394.58	323.09
						758.85	401.82	323.09
						750.56	412.48	323.09
						744.47	418.36	323.09
						733.91	422.51	323.09
1060				323.09		748.77	456.72	323.09
						748.09	449.10	323.09
						751.72	446.37	323.09
						752.19	443.59	323.09
						752.92	442.07	323.09
						752.77	438.44	323.09
						753.13	437.50	323.09
						747.83	429.25	323.09
						741.99	425.25	323.09
						738.16	427.46	323.09
						734.95	424.38	323.09
						731.95	425.05	323.09
						729.28	428.59	323.09
						727.70	424.13	323.09
						725.41	422.29	323.09
						727.41	420.75	323.09
						729.53	425.25	323.09
						730.70	425.67	323.09
						732.07	422.38	323.09
						733.74	422.50	323.09
1065				324.61		629.79	266.86	324.61
						629.72	292.13	324.61
						631.14	304.73	324.61
						634.61	309.72	324.61
						641.91	310.67	324.61
						667.11	310.14	324.61
						681.50	310.46	324.61
						683.70	312.35	324.61
						682.13	315.76	324.61
						685.33	329.46	324.61
						685.66	343.55	324.61
						684.34	357.31	324.61
						692.31	364.26	324.61
						693.04	360.02	324.61
						694.69	358.17	324.61

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						696.48	355.26	324.61
						697.67	352.35	324.61
						701.04	349.30	324.61
						700.71	353.14	324.61
						700.18	358.30	324.61
						701.04	363.33	324.61
						703.75	363.46	324.61
						708.15	358.12	324.61
						711.36	353.62	324.61
						711.34	349.56	324.61
						710.44	346.59	324.61
						709.58	344.27	324.61
						706.01	342.32	324.61
						703.37	343.91	324.61
						702.57	344.34	324.61
						706.11	341.63	324.61
						708.82	342.92	324.61
						710.94	344.34	324.61
						712.43	346.98	324.61
						713.22	349.63	324.61
						712.83	356.15	324.61
						712.21	359.84	324.61
						709.43	362.93	324.61
						709.11	365.05	324.61
						705.50	368.99	324.61
						707.98	368.95	324.61
						708.15	370.54	324.61
						715.67	367.09	324.61
						716.93	367.25	324.61
						724.49	364.73	324.61
						738.30	363.31	324.61
						745.28	364.52	324.61
						748.76	366.48	324.61
						752.40	372.30	324.61
						754.45	379.84	324.61
						756.21	384.51	324.61
						755.84	389.13	324.61
						755.53	394.33	324.61
						752.39	405.22	324.61
						745.40	412.94	324.61
						738.54	418.33	324.61
						730.20	418.60	324.61
						724.97	420.25	324.61
						719.61	419.86	324.61
						702.68	423.30	324.61
						706.71	423.83	324.61
						706.58	426.01	324.61

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						711.34	427.46	324.61
						713.06	430.24	324.61
						717.63	430.97	324.61
						727.62	433.22	324.61
						734.96	434.87	324.61
						744.74	435.04	324.61
						749.50	436.89	324.61
						749.42	441.68	324.61
						747.57	446.64	324.61
						746.05	451.01	324.61
						746.31	457.76	324.61
1065				324.61		738.48	455.52	324.61
						735.36	452.66	324.61
						735.75	443.41	324.61
						737.00	445.14	324.61
						738.46	445.28	324.61
						739.50	446.35	324.61
						739.67	448.85	324.61
						740.96	451.41	324.61
						742.21	452.72	324.61
						741.23	455.89	324.61
						738.88	455.87	324.61
1070				326.14		625.93	267.74	326.14
						625.63	279.95	326.14
						626.88	296.91	326.14
						627.99	305.89	326.14
						630.14	311.72	326.14
						636.55	313.92	326.14
						643.16	314.24	326.14
						654.77	313.14	326.14
						671.36	313.56	326.14
						672.78	315.40	326.14
						670.78	331.52	326.14
						673.10	348.65	326.14
1070				326.14		667.43	449.90	326.14
						679.61	437.93	326.14
						694.21	437.93	326.14
						699.67	436.77	326.14
						682.24	436.04	326.14
						669.64	434.77	326.14
						669.11	431.10	326.14
						666.17	429.42	326.14
						659.03	429.10	326.14
						657.98	424.90	326.14
						655.99	422.17	326.14
						660.61	422.28	326.14
						670.90	419.86	326.14

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						689.17	419.65	326.14
						707.45	417.34	326.14
						716.90	416.08	326.14
						728.97	415.98	326.14
						738.63	414.79	326.14
						744.39	409.96	326.14
						748.03	402.55	326.14
						747.63	390.97	326.14
						746.18	379.13	326.14
						742.29	370.30	326.14
						739.40	367.63	326.14
						732.79	367.05	326.14
						727.38	368.10	326.14
						718.59	370.11	326.14
						717.80	372.42	326.14
						708.25	377.05	326.14
						697.69	388.07	326.14
						693.49	385.13	326.14
						689.34	386.29	326.14
						683.67	385.24	326.14
						679.63	380.88	326.14
						677.76	372.26	326.14
						678.49	351.69	326.14
						676.43	358.24	326.14
						676.63	370.81	326.14
						674.52	372.13	326.14
1070				326.14		729.70	455.45	326.14
						731.79	447.45	326.14
						733.83	449.20	326.14
						731.75	458.16	326.14
1075				327.66		621.45	268.98	327.66
						622.60	289.67	327.66
						625.75	310.46	327.66
						630.90	316.34	327.66
						643.82	316.97	327.66
						663.45	316.97	327.66
						663.87	326.21	327.66
						664.04	345.38	327.66
						662.62	384.48	327.66
1075				327.66		614.71	438.35	327.66
						611.14	436.88	327.66
						620.91	422.70	327.66
						635.40	420.07	327.66
						669.85	417.45	327.66
1080				329.18		611.37	325.72	329.18
						613.55	318.58	329.18
						613.02	302.04	329.18

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						615.60	290.66	329.18
						619.04	286.36	329.18
						621.56	308.39	329.18
						624.73	317.19	329.18
						631.28	319.44	329.18
						641.60	320.30	329.18
						643.12	328.77	329.18
						641.55	365.31	329.18
						637.05	409.77	329.18
1080				329.18		611.10	418.42	329.18
						633.72	416.17	329.18
						669.74	413.67	329.18
						653.36	413.04	329.18
1085				330.71		611.00	353.52	330.71
						624.17	321.10	330.71
						639.67	323.35	330.71
						641.17	342.94	330.71
						637.50	372.66	330.71
						625.99	404.67	330.71
						621.66	413.67	330.71
						619.16	413.00	330.71
						609.49	415.58	330.71
1090				332.23		610.76	365.79	332.23
						635.96	338.80	332.23
						633.44	354.24	332.23
						625.36	383.85	332.23
						617.48	402.23	332.23
						611.18	411.05	332.23
						602.99	412.42	332.23
Golden Gate Circle		R_6				626.93	736.30	324.31
						620.90	444.39	327.66
						618.07	437.98	327.66
						613.87	435.67	327.66

Eilar Associates, Inc.

210 South Juniper Street, Suite 100

Escondido, California 92025-4230

Phone: (760) 738-5570

Date: 23 Jun 2020

Calculation Configuration

Configuration	
Parameter	Value
General	
Country	(user defined)
Max. Error (dB)	0.00
Max. Search Radius (#(Unit,LEN))	2000.00
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (#(Unit,LEN))	1000.00
Min. Length of Section (#(Unit,LEN))	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	960.00
Reference Time Night (min)	480.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	6.00
Night-time Penalty (dB)	10.00
DTM	
Standard Height (m)	0.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	0
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rcvr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	Excl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (#(Unit,TEMP))	10
rel. Humidity (%)	70
Ground Absorption G	0.70
Wind Speed for Dir. (#(Unit,SPEED))	3.0
Roads (TNM)	
Railways (Schall 03 (1990))	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	

Receivers

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height	Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type		X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)	(m)	(m)	(m)
R1			65.6	-80.2	0.0	0.0		x	Total	1.52	776.82	384.67	322.95

Area Sources

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.	Moving Pt. Src		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night				Number		
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(m²)		(min)	(min)	(min)	(dB)	(Hz)		Day	Evening	Night
Excavator	+		108.4	8.4	8.4	67.5	-32.5	-32.5	PWL-Pt	S7		0.0	0.0	0.0				24.00	0.00	0.00	0.0		(none)	1.0	0.0	0.0
Backhoe	+		107.4	7.4	7.4	66.5	-33.5	-33.5	PWL-Pt	S2		0.0	0.0	0.0				24.00	0.00	0.00	0.0		(none)	1.0	0.0	0.0
Water Truck	+		111.1	11.1	11.1	70.2	-29.8	-29.8	PWL-Pt	S21		0.0	0.0	0.0				24.00	0.00	0.00	0.0		(none)	1.0	0.0	0.0
Grader	+		103.9	3.9	3.9	63.0	-37.0	-37.0	PWL-Pt	S10		0.0	0.0	0.0				24.00	0.00	0.00	0.0		(none)	1.0	0.0	0.0

Geometry - Area Sources

Name	Height			Coordinates			
	Begin	End		x	y	z	Ground
	(m)	(m)		(m)	(m)	(m)	(m)
Excavator	1.52	r		644.60	407.75	330.52	329.00
				745.09	406.03	327.66	326.14
				755.81	403.25	325.34	323.82
				777.52	376.11	322.74	321.22
				792.35	353.07	321.93	320.41
				793.28	338.24	321.64	320.12
				786.53	323.81	322.27	320.75
				772.36	309.38	323.08	321.56
				729.60	312.29	323.53	322.01
				675.84	315.47	327.16	325.64
				654.53	328.05	329.86	328.34
				648.73	343.35	330.26	328.74
Backhoe	1.52	r		644.60	407.75	330.52	329.00
				745.09	406.03	327.66	326.14
				755.81	403.25	325.34	323.82
				777.52	376.11	322.74	321.22
				792.35	353.07	321.93	320.41
				793.28	338.24	321.64	320.12
				786.53	323.81	322.27	320.75
				772.36	309.38	323.08	321.56
				729.60	312.29	323.53	322.01
				675.84	315.47	327.16	325.64
				654.53	328.05	329.86	328.34
				648.73	343.35	330.26	328.74
Water Truck	1.52	r		644.60	407.75	330.52	329.00
				745.09	406.03	327.66	326.14
				755.81	403.25	325.34	323.82
				777.52	376.11	322.74	321.22
				792.35	353.07	321.93	320.41
				793.28	338.24	321.64	320.12
				786.53	323.81	322.27	320.75
				772.36	309.38	323.08	321.56
				729.60	312.29	323.53	322.01
				675.84	315.47	327.16	325.64
				654.53	328.05	329.86	328.34
				648.73	343.35	330.26	328.74
Grader	1.52	r		644.60	407.75	330.52	329.00
				745.09	406.03	327.66	326.14
				755.81	403.25	325.34	323.82
				777.52	376.11	322.74	321.22
				792.35	353.07	321.93	320.41

Name	Height			Coordinates			
	Begin	End		x	y	z	Ground
	(m)	(m)		(m)	(m)	(m)	(m)
				793.28	338.24	321.64	320.12
				786.53	323.81	322.27	320.75
				772.36	309.38	323.08	321.56
				729.60	312.29	323.53	322.01
				675.84	315.47	327.16	325.64
				654.53	328.05	329.86	328.34
				648.73	343.35	330.26	328.74

Terrain Contours

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
				327.05	325.53	639.60	551.05	327.05
						723.76	547.88	325.53
				323.70	322.17	640.66	783.97	323.70
						709.47	759.09	322.17
1040				316.99		765.63	457.96	316.99
						768.47	448.03	316.99
						775.15	440.42	316.99
						789.91	411.11	316.99
						788.19	418.46	316.99
						791.30	420.11	316.99
						791.23	417.86	316.99
						800.23	411.94	316.99
						800.40	405.69	316.99
						804.57	394.84	316.99
						804.70	388.95	316.99
						805.10	384.52	316.99
						804.57	383.46	316.99
						793.72	405.43	316.99
						793.45	403.84	316.99
						806.53	378.95	316.99
						810.36	368.39	316.99
						820.13	356.47	316.99
						829.22	343.89	316.99
						835.55	333.72	316.99
						837.39	338.97	316.99
						842.47	343.39	316.99
						842.72	329.88	316.99
						842.71	324.03	316.99
						865.37	277.64	316.99
1040				316.99		773.52	435.05	316.99
						770.08	434.32	316.99
						770.94	423.07	316.99
						777.43	414.41	316.99
						781.00	417.45	316.99
						779.01	424.40	316.99
						775.84	429.62	316.99
						773.85	435.18	316.99
1040				316.99		762.47	457.48	316.99
						763.73	448.81	316.99
						767.70	441.34	316.99
						768.10	431.81	316.99
						768.89	423.07	316.99
						773.65	416.46	316.99
						778.35	412.69	316.99
						781.46	409.77	316.99

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						785.10	397.00	316.99
						790.46	384.90	316.99
						796.72	375.65	316.99
						801.15	367.75	316.99
						815.91	346.45	316.99
						821.34	339.53	316.99
						827.49	327.87	316.99
						829.29	322.15	316.99
						833.15	317.58	316.99
						835.27	314.23	316.99
						835.58	309.40	316.99
						837.68	302.10	316.99
						840.07	297.62	316.99
						840.96	292.89	316.99
						842.54	285.85	316.99
						844.74	284.33	316.99
						844.32	277.08	316.99
1045				318.52		867.57	278.12	318.52
						844.98	323.97	318.52
						844.72	358.94	318.52
						842.22	358.90	318.52
						835.26	363.36	318.52
						829.63	373.40	318.52
						827.55	376.16	318.52
						822.66	384.82	318.52
						822.82	389.70	318.52
						821.14	391.17	318.52
						816.81	394.68	318.52
						815.01	396.80	318.52
						809.76	404.26	318.52
						812.14	409.55	318.52
						806.65	419.74	318.52
						795.40	434.10	318.52
						789.85	445.61	318.52
						787.27	451.50	318.52
						785.41	458.58	318.52
1045				318.52		838.60	279.13	318.52
						837.81	286.06	318.52
						837.86	295.78	318.52
						830.11	311.99	318.52
						823.36	322.08	318.52
						815.32	341.05	318.52
						809.32	353.30	318.52
						792.09	379.25	318.52
						781.34	400.00	318.52
						772.83	410.93	318.52
						767.08	416.51	318.52

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						761.76	421.74	318.52
						762.42	430.66	318.52
						760.09	441.66	318.52
						755.34	450.58	318.52
						754.34	461.50	318.52
1050				320.04		751.40	456.24	320.04
						751.07	452.86	320.04
						753.25	449.22	320.04
						756.17	443.27	320.04
						758.08	437.12	320.04
1050				320.04		787.12	458.73	320.04
						790.62	447.35	320.04
						795.52	437.09	320.04
						798.69	432.93	320.04
						802.86	428.56	320.04
						805.94	426.57	320.04
						812.21	426.88	320.04
						818.35	422.34	320.04
						820.66	407.55	320.04
						820.61	400.24	320.04
						825.98	396.53	320.04
						832.48	395.58	320.04
						834.02	393.41	320.04
						833.95	387.28	320.04
						833.32	379.41	320.04
						836.37	372.58	320.04
						843.19	368.69	320.04
						847.56	363.14	320.04
						847.56	323.64	320.04
						853.34	311.04	320.04
						863.84	301.17	320.04
1050				320.04		757.87	421.07	320.04
						764.44	415.61	320.04
						765.44	410.20	320.04
						771.53	409.21	320.04
						775.10	404.85	320.04
						779.46	399.54	320.04
						783.66	390.30	320.04
						789.08	380.04	320.04
						792.33	374.29	320.04
						794.77	372.30	320.04
						801.52	359.27	320.04
						803.77	352.32	320.04
						808.87	346.96	320.04
						794.94	338.03	320.04
						800.93	338.86	320.04
						809.96	342.40	320.04

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						808.84	340.01	320.04
						810.16	339.52	320.04
						812.08	338.86	320.04
						815.32	330.19	320.04
						818.52	322.73	320.04
						820.57	318.21	320.04
						823.93	310.28	320.04
						831.48	301.35	320.04
						834.65	298.51	320.04
						835.91	277.33	320.04
1055				321.56		635.48	264.99	321.56
						635.90	293.50	321.56
						637.40	302.42	321.56
						639.82	303.08	321.56
						642.86	304.45	321.56
						736.01	302.03	321.56
						755.59	301.87	321.56
						770.18	301.78	321.56
						772.35	303.03	321.56
						777.43	301.78	321.56
						785.10	302.12	321.56
						781.93	305.28	321.56
						776.76	305.45	321.56
						771.01	307.79	321.56
						770.93	310.95	321.56
						760.34	317.79	321.56
						756.93	324.62	321.56
						754.41	330.40	321.56
						756.82	334.70	321.56
						755.14	337.75	321.56
						762.60	343.42	321.56
						765.85	352.55	321.56
						772.34	362.21	321.56
						774.19	375.05	321.56
						776.31	388.94	321.56
						779.08	390.13	321.56
						773.79	400.71	321.56
						765.06	404.68	321.56
						751.56	416.46	321.56
						746.38	422.78	321.56
						744.53	423.77	321.56
						741.24	423.27	321.56
						740.16	421.60	321.56
						738.57	423.89	321.56
						744.95	424.69	321.56
						747.03	425.81	321.56
						749.20	426.64	321.56

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						752.98	429.63	321.56
						756.78	434.51	321.56
						755.29	440.30	321.56
						754.30	444.55	321.56
						752.25	449.70	321.56
						750.72	450.96	321.56
						749.67	450.96	321.56
						749.15	453.42	321.56
						750.04	454.37	321.56
						750.15	456.89	321.56
1055				321.56		866.77	361.33	321.56
						863.72	361.43	321.56
						858.68	367.63	321.56
						853.33	377.08	321.56
						847.66	379.92	321.56
						863.41	396.30	321.56
						863.72	401.56	321.56
						868.66	408.59	321.56
						895.00	423.60	321.56
1055				321.56		787.82	458.34	321.56
						796.23	438.70	321.56
						803.37	431.25	321.56
						807.88	429.57	321.56
						818.49	436.18	321.56
						813.77	436.81	321.56
						811.14	440.17	321.56
						811.88	443.64	321.56
						813.24	444.06	321.56
						810.93	448.89	321.56
						812.61	459.29	321.56
1055				321.56		814.61	312.52	321.56
						819.03	309.40	321.56
						819.20	304.02	321.56
						814.15	311.56	321.56
						815.32	313.27	321.56
1060				323.09		633.28	266.49	323.09
						632.82	291.16	323.09
						634.01	303.73	323.09
						637.18	306.71	323.09
						667.81	306.77	323.09
						694.01	306.51	323.09
						700.63	309.22	323.09
						700.49	313.26	323.09
						702.74	323.77	323.09
						704.79	332.90	323.09
						710.55	335.29	323.09
						724.04	342.76	323.09

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						732.45	350.70	323.09
						737.54	358.70	323.09
						749.78	359.76	323.09
						756.72	362.74	323.09
						760.96	369.42	323.09
						761.55	373.13	323.09
						764.26	381.29	323.09
						764.84	394.58	323.09
						758.85	401.82	323.09
						750.56	412.48	323.09
						744.47	418.36	323.09
						733.91	422.51	323.09
1060				323.09		748.77	456.72	323.09
						748.09	449.10	323.09
						751.72	446.37	323.09
						752.19	443.59	323.09
						752.92	442.07	323.09
						752.77	438.44	323.09
						753.13	437.50	323.09
						747.83	429.25	323.09
						741.99	425.25	323.09
						738.16	427.46	323.09
						734.95	424.38	323.09
						731.95	425.05	323.09
						729.28	428.59	323.09
						727.70	424.13	323.09
						725.41	422.29	323.09
						727.41	420.75	323.09
						729.53	425.25	323.09
						730.70	425.67	323.09
						732.07	422.38	323.09
						733.74	422.50	323.09
1065				324.61		629.79	266.86	324.61
						629.72	292.13	324.61
						631.14	304.73	324.61
						634.61	309.72	324.61
						641.91	310.67	324.61
						667.11	310.14	324.61
						681.50	310.46	324.61
						683.70	312.35	324.61
						682.13	315.76	324.61
						685.33	329.46	324.61
						685.66	343.55	324.61
						684.34	357.31	324.61
						692.31	364.26	324.61
						693.04	360.02	324.61
						694.69	358.17	324.61

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						696.48	355.26	324.61
						697.67	352.35	324.61
						701.04	349.30	324.61
						700.71	353.14	324.61
						700.18	358.30	324.61
						701.04	363.33	324.61
						703.75	363.46	324.61
						708.15	358.12	324.61
						711.36	353.62	324.61
						711.34	349.56	324.61
						710.44	346.59	324.61
						709.58	344.27	324.61
						706.01	342.32	324.61
						703.37	343.91	324.61
						702.57	344.34	324.61
						706.11	341.63	324.61
						708.82	342.92	324.61
						710.94	344.34	324.61
						712.43	346.98	324.61
						713.22	349.63	324.61
						712.83	356.15	324.61
						712.21	359.84	324.61
						709.43	362.93	324.61
						709.11	365.05	324.61
						705.50	368.99	324.61
						707.98	368.95	324.61
						708.15	370.54	324.61
						715.67	367.09	324.61
						716.93	367.25	324.61
						724.49	364.73	324.61
						738.30	363.31	324.61
						745.28	364.52	324.61
						748.76	366.48	324.61
						752.40	372.30	324.61
						754.45	379.84	324.61
						756.21	384.51	324.61
						755.84	389.13	324.61
						755.53	394.33	324.61
						752.39	405.22	324.61
						745.40	412.94	324.61
						738.54	418.33	324.61
						730.20	418.60	324.61
						724.97	420.25	324.61
						719.61	419.86	324.61
						702.68	423.30	324.61
						706.71	423.83	324.61
						706.58	426.01	324.61

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						711.34	427.46	324.61
						713.06	430.24	324.61
						717.63	430.97	324.61
						727.62	433.22	324.61
						734.96	434.87	324.61
						744.74	435.04	324.61
						749.50	436.89	324.61
						749.42	441.68	324.61
						747.57	446.64	324.61
						746.05	451.01	324.61
						746.31	457.76	324.61
1065				324.61		738.48	455.52	324.61
						735.36	452.66	324.61
						735.75	443.41	324.61
						737.00	445.14	324.61
						738.46	445.28	324.61
						739.50	446.35	324.61
						739.67	448.85	324.61
						740.96	451.41	324.61
						742.21	452.72	324.61
						741.23	455.89	324.61
						738.88	455.87	324.61
1070				326.14		625.93	267.74	326.14
						625.63	279.95	326.14
						626.88	296.91	326.14
						627.99	305.89	326.14
						630.14	311.72	326.14
						636.55	313.92	326.14
						643.16	314.24	326.14
						654.77	313.14	326.14
						671.36	313.56	326.14
						672.78	315.40	326.14
						670.78	331.52	326.14
						673.10	348.65	326.14
1070				326.14		667.43	449.90	326.14
						679.61	437.93	326.14
						694.21	437.93	326.14
						699.67	436.77	326.14
						682.24	436.04	326.14
						669.64	434.77	326.14
						669.11	431.10	326.14
						666.17	429.42	326.14
						659.03	429.10	326.14
						657.98	424.90	326.14
						655.99	422.17	326.14
						660.61	422.28	326.14
						670.90	419.86	326.14

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						689.17	419.65	326.14
						707.45	417.34	326.14
						716.90	416.08	326.14
						728.97	415.98	326.14
						738.63	414.79	326.14
						744.39	409.96	326.14
						748.03	402.55	326.14
						747.63	390.97	326.14
						746.18	379.13	326.14
						742.29	370.30	326.14
						739.40	367.63	326.14
						732.79	367.05	326.14
						727.38	368.10	326.14
						718.59	370.11	326.14
						717.80	372.42	326.14
						708.25	377.05	326.14
						697.69	388.07	326.14
						693.49	385.13	326.14
						689.34	386.29	326.14
						683.67	385.24	326.14
						679.63	380.88	326.14
						677.76	372.26	326.14
						678.49	351.69	326.14
						676.43	358.24	326.14
						676.63	370.81	326.14
						674.52	372.13	326.14
1070				326.14		729.70	455.45	326.14
						731.79	447.45	326.14
						733.83	449.20	326.14
						731.75	458.16	326.14
1075				327.66		621.45	268.98	327.66
						622.60	289.67	327.66
						625.75	310.46	327.66
						630.90	316.34	327.66
						643.82	316.97	327.66
						663.45	316.97	327.66
						663.87	326.21	327.66
						664.04	345.38	327.66
						662.62	384.48	327.66
1075				327.66		614.71	438.35	327.66
						611.14	436.88	327.66
						620.91	422.70	327.66
						635.40	420.07	327.66
						669.85	417.45	327.66
1080				329.18		611.37	325.72	329.18
						613.55	318.58	329.18
						613.02	302.04	329.18

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						615.60	290.66	329.18
						619.04	286.36	329.18
						621.56	308.39	329.18
						624.73	317.19	329.18
						631.28	319.44	329.18
						641.60	320.30	329.18
						643.12	328.77	329.18
						641.55	365.31	329.18
						637.05	409.77	329.18
1080				329.18		611.10	418.42	329.18
						633.72	416.17	329.18
						669.74	413.67	329.18
						653.36	413.04	329.18
1085				330.71		611.00	353.52	330.71
						624.17	321.10	330.71
						639.67	323.35	330.71
						641.17	342.94	330.71
						637.50	372.66	330.71
						625.99	404.67	330.71
						621.66	413.67	330.71
						619.16	413.00	330.71
						609.49	415.58	330.71
1090				332.23		610.76	365.79	332.23
						635.96	338.80	332.23
						633.44	354.24	332.23
						625.36	383.85	332.23
						617.48	402.23	332.23
						611.18	411.05	332.23
						602.99	412.42	332.23
Golden Gate Circle		R_6				626.93	736.30	324.31
						620.90	444.39	327.66
						618.07	437.98	327.66
						613.87	435.67	327.66
Elm Street		R_6				442.05	94.43	321.87
						444.57	341.51	340.77
						447.93	563.37	332.54
						451.46	806.69	330.71
Madison Ave		R_3				83.87	429.38	333.15
						196.08	429.86	328.27
						262.77	427.86	337.41
						358.81	429.20	334.67
						436.18	428.53	336.80
						486.20	429.20	333.15
						615.41	429.55	327.66
15 SB		R_2				96.74	953.36	337.72
						744.27	803.56	323.70
						1026.67	741.49	327.05

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
15 NB		R_1				325.72	949.26	332.84
						796.15	836.38	325.22
						1019.79	781.18	327.66
Jefferson Ave NB		R_4				89.06	195.70	321.56
						123.73	193.44	321.56
						229.74	171.77	322.17
						277.07	167.44	321.56
						340.75	172.44	321.87
						448.76	196.78	323.39
						505.09	209.44	322.17
						558.77	214.44	320.65
						621.21	207.30	319.74
						672.14	193.17	317.91
						709.32	178.72	319.13
						801.25	138.91	320.34
						852.05	126.74	320.95
						897.58	122.92	321.26
						1029.33	110.39	319.43
Jefferson Ave SB		R_5				89.06	182.08	321.56
						123.73	180.09	321.26
						229.74	159.22	322.17
						277.07	155.42	322.17
						340.75	159.89	321.87
						448.76	184.75	322.78
						505.09	197.42	321.87
						558.77	200.57	321.56
						621.21	195.28	319.43
						666.97	183.11	319.43
						709.32	167.23	318.52
						801.51	128.27	320.95
						852.58	117.09	320.95
						897.41	113.09	321.56
						1029.59	102.09	320.65

Sound Level Spectra

Name	ID	Type	Oktave Spectrum (dB)												Source
			Weight.	31.5	63	125	250	500	1000	2000	4000	8000	A	lin	
Excavator	S7	Lw			109.4	117.4	102.4	105.4	102.4	100.4	95.4	89.4	108.4	118.6	DEFRA
Backhoe	S2	Lw			113.9	113.9	102.9	104.9	100.9	98.9	97.9	89.9	107.4	117.5	DEFRA
Grader	S10	Lw			105.4	104.4	100.4	96.4	101.4	95.4	91.4	82.4	103.9	109.8	DEFRA
Water Truck	S21	Lw (c)			110.5	111.5	105.5	109.5	103.5	104.5	100.5	95.5	111.1	116.5	DEFRA

Eilar Associates, Inc.

210 South Juniper Street, Suite 100

Escondido, California 92025-4230

Phone: (760) 738-5570

Date: 23 Jun 2020

Calculation Configuration

Configuration	
Parameter	Value
General	
Country	(user defined)
Max. Error (dB)	0.00
Max. Search Radius (#(Unit,LEN))	2000.00
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (#(Unit,LEN))	1000.00
Min. Length of Section (#(Unit,LEN))	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	960.00
Reference Time Night (min)	480.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	6.00
Night-time Penalty (dB)	10.00
DTM	
Standard Height (m)	0.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	0
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rcvr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	Excl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (#(Unit,TEMP))	10
rel. Humidity (%)	70
Ground Absorption G	0.70
Wind Speed for Dir. (#(Unit,SPEED))	3.0
Roads (TNM)	
Railways (Schall 03 (1990))	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	

Receivers

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height	Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type		X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)	(m)	(m)	(m)
R1			56.3	-80.2	0.0	0.0		x	Total	1.52	776.82	384.67	322.95

Area Sources

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.	Moving Pt. Src		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night				Number		
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(m²)		(min)	(min)	(min)	(dB)	(Hz)		Day	Evening	Night
Concrete Mixer Truck	+		109.9	9.9	9.9	69.8	-30.2	-30.2	PWL-Pt	S3		0.0	0.0	0.0				24.00	0.00	0.00	0.0		(none)	1.0	0.0	0.0
Concrete Mixer Truck	+		107.3	7.3	7.3	67.2	-32.8	-32.8	PWL-Pt	S4		0.0	0.0	0.0				12.00	0.00	0.00	0.0		(none)	1.0	0.0	0.0

Geometry - Area Sources

Name	Height			Coordinates			
	Begin	End		x	y	z	Ground
	(m)	(m)		(m)	(m)	(m)	(m)
Concrete Mixer Truck	1.52	r		644.77	407.92	330.53	329.01
				745.25	406.19	327.66	326.14
				755.37	394.68	326.15	324.63
				735.54	392.35	327.66	326.14
				736.20	362.51	325.80	324.28
				780.88	358.34	322.59	321.07
				781.60	311.79	322.84	321.32
				676.01	315.64	327.13	325.61
				654.70	328.22	329.85	328.33
				648.90	343.51	330.25	328.73
Concrete Mixer Truck	1.52	r		644.77	407.92	330.53	329.01
				745.25	406.19	327.66	326.14
				755.37	394.68	326.15	324.63
				735.54	392.35	327.66	326.14
				736.20	362.51	325.80	324.28
				780.88	358.34	322.59	321.07
				781.60	311.79	322.84	321.32
				676.01	315.64	327.13	325.61
				654.70	328.22	329.85	328.33
				648.90	343.51	330.25	328.73

Terrain Contours

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
				327.05	325.53	639.60	551.05	327.05
						723.76	547.88	325.53
				323.70	322.17	640.66	783.97	323.70
						709.47	759.09	322.17
1040				316.99		765.63	457.96	316.99
						768.47	448.03	316.99
						775.15	440.42	316.99
						789.91	411.11	316.99
						788.19	418.46	316.99
						791.30	420.11	316.99
						791.23	417.86	316.99
						800.23	411.94	316.99
						800.40	405.69	316.99
						804.57	394.84	316.99
						804.70	388.95	316.99
						805.10	384.52	316.99
						804.57	383.46	316.99
						793.72	405.43	316.99
						793.45	403.84	316.99
						806.53	378.95	316.99
						810.36	368.39	316.99
						820.13	356.47	316.99
						829.22	343.89	316.99
						835.55	333.72	316.99
						837.39	338.97	316.99
						842.47	343.39	316.99
						842.72	329.88	316.99
						842.71	324.03	316.99
						865.37	277.64	316.99
1040				316.99		773.52	435.05	316.99
						770.08	434.32	316.99
						770.94	423.07	316.99
						777.43	414.41	316.99
						781.00	417.45	316.99
						779.01	424.40	316.99
						775.84	429.62	316.99
						773.85	435.18	316.99
1040				316.99		762.47	457.48	316.99
						763.73	448.81	316.99
						767.70	441.34	316.99
						768.10	431.81	316.99
						768.89	423.07	316.99
						773.65	416.46	316.99
						778.35	412.69	316.99
						781.46	409.77	316.99

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						785.10	397.00	316.99
						790.46	384.90	316.99
						796.72	375.65	316.99
						801.15	367.75	316.99
						815.91	346.45	316.99
						821.34	339.53	316.99
						827.49	327.87	316.99
						829.29	322.15	316.99
						833.15	317.58	316.99
						835.27	314.23	316.99
						835.58	309.40	316.99
						837.68	302.10	316.99
						840.07	297.62	316.99
						840.96	292.89	316.99
						842.54	285.85	316.99
						844.74	284.33	316.99
						844.32	277.08	316.99
1045				318.52		867.57	278.12	318.52
						844.98	323.97	318.52
						844.72	358.94	318.52
						842.22	358.90	318.52
						835.26	363.36	318.52
						829.63	373.40	318.52
						827.55	376.16	318.52
						822.66	384.82	318.52
						822.82	389.70	318.52
						821.14	391.17	318.52
						816.81	394.68	318.52
						815.01	396.80	318.52
						809.76	404.26	318.52
						812.14	409.55	318.52
						806.65	419.74	318.52
						795.40	434.10	318.52
						789.85	445.61	318.52
						787.27	451.50	318.52
						785.41	458.58	318.52
1045				318.52		838.60	279.13	318.52
						837.81	286.06	318.52
						837.86	295.78	318.52
						830.11	311.99	318.52
						823.36	322.08	318.52
						815.32	341.05	318.52
						809.32	353.30	318.52
						792.09	379.25	318.52
						781.34	400.00	318.52
						772.83	410.93	318.52
						767.08	416.51	318.52

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						761.76	421.74	318.52
						762.42	430.66	318.52
						760.09	441.66	318.52
						755.34	450.58	318.52
						754.34	461.50	318.52
1050				320.04		751.40	456.24	320.04
						751.07	452.86	320.04
						753.25	449.22	320.04
						756.17	443.27	320.04
						758.08	437.12	320.04
1050				320.04		787.12	458.73	320.04
						790.62	447.35	320.04
						795.52	437.09	320.04
						798.69	432.93	320.04
						802.86	428.56	320.04
						805.94	426.57	320.04
						812.21	426.88	320.04
						818.35	422.34	320.04
						820.66	407.55	320.04
						820.61	400.24	320.04
						825.98	396.53	320.04
						832.48	395.58	320.04
						834.02	393.41	320.04
						833.95	387.28	320.04
						833.32	379.41	320.04
						836.37	372.58	320.04
						843.19	368.69	320.04
						847.56	363.14	320.04
						847.56	323.64	320.04
						853.34	311.04	320.04
						863.84	301.17	320.04
1050				320.04		757.87	421.07	320.04
						764.44	415.61	320.04
						765.44	410.20	320.04
						771.53	409.21	320.04
						775.10	404.85	320.04
						779.46	399.54	320.04
						783.66	390.30	320.04
						789.08	380.04	320.04
						792.33	374.29	320.04
						794.77	372.30	320.04
						801.52	359.27	320.04
						803.77	352.32	320.04
						808.87	346.96	320.04
						794.94	338.03	320.04
						800.93	338.86	320.04
						809.96	342.40	320.04

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						808.84	340.01	320.04
						810.16	339.52	320.04
						812.08	338.86	320.04
						815.32	330.19	320.04
						818.52	322.73	320.04
						820.57	318.21	320.04
						823.93	310.28	320.04
						831.48	301.35	320.04
						834.65	298.51	320.04
						835.91	277.33	320.04
1055				321.56		635.48	264.99	321.56
						635.90	293.50	321.56
						637.40	302.42	321.56
						639.82	303.08	321.56
						642.86	304.45	321.56
						736.01	302.03	321.56
						755.59	301.87	321.56
						770.18	301.78	321.56
						772.35	303.03	321.56
						777.43	301.78	321.56
						785.10	302.12	321.56
						781.93	305.28	321.56
						776.76	305.45	321.56
						771.01	307.79	321.56
						770.93	310.95	321.56
						760.34	317.79	321.56
						756.93	324.62	321.56
						754.41	330.40	321.56
						756.82	334.70	321.56
						755.14	337.75	321.56
						762.60	343.42	321.56
						765.85	352.55	321.56
						772.34	362.21	321.56
						774.19	375.05	321.56
						776.31	388.94	321.56
						779.08	390.13	321.56
						773.79	400.71	321.56
						765.06	404.68	321.56
						751.56	416.46	321.56
						746.38	422.78	321.56
						744.53	423.77	321.56
						741.24	423.27	321.56
						740.16	421.60	321.56
						738.57	423.89	321.56
						744.95	424.69	321.56
						747.03	425.81	321.56
						749.20	426.64	321.56

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						752.98	429.63	321.56
						756.78	434.51	321.56
						755.29	440.30	321.56
						754.30	444.55	321.56
						752.25	449.70	321.56
						750.72	450.96	321.56
						749.67	450.96	321.56
						749.15	453.42	321.56
						750.04	454.37	321.56
						750.15	456.89	321.56
1055				321.56		866.77	361.33	321.56
						863.72	361.43	321.56
						858.68	367.63	321.56
						853.33	377.08	321.56
						847.66	379.92	321.56
						863.41	396.30	321.56
						863.72	401.56	321.56
						868.66	408.59	321.56
						895.00	423.60	321.56
1055				321.56		787.82	458.34	321.56
						796.23	438.70	321.56
						803.37	431.25	321.56
						807.88	429.57	321.56
						818.49	436.18	321.56
						813.77	436.81	321.56
						811.14	440.17	321.56
						811.88	443.64	321.56
						813.24	444.06	321.56
						810.93	448.89	321.56
						812.61	459.29	321.56
1055				321.56		814.61	312.52	321.56
						819.03	309.40	321.56
						819.20	304.02	321.56
						814.15	311.56	321.56
						815.32	313.27	321.56
1060				323.09		633.28	266.49	323.09
						632.82	291.16	323.09
						634.01	303.73	323.09
						637.18	306.71	323.09
						667.81	306.77	323.09
						694.01	306.51	323.09
						700.63	309.22	323.09
						700.49	313.26	323.09
						702.74	323.77	323.09
						704.79	332.90	323.09
						710.55	335.29	323.09
						724.04	342.76	323.09

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						732.45	350.70	323.09
						737.54	358.70	323.09
						749.78	359.76	323.09
						756.72	362.74	323.09
						760.96	369.42	323.09
						761.55	373.13	323.09
						764.26	381.29	323.09
						764.84	394.58	323.09
						758.85	401.82	323.09
						750.56	412.48	323.09
						744.47	418.36	323.09
						733.91	422.51	323.09
1060				323.09		748.77	456.72	323.09
						748.09	449.10	323.09
						751.72	446.37	323.09
						752.19	443.59	323.09
						752.92	442.07	323.09
						752.77	438.44	323.09
						753.13	437.50	323.09
						747.83	429.25	323.09
						741.99	425.25	323.09
						738.16	427.46	323.09
						734.95	424.38	323.09
						731.95	425.05	323.09
						729.28	428.59	323.09
						727.70	424.13	323.09
						725.41	422.29	323.09
						727.41	420.75	323.09
						729.53	425.25	323.09
						730.70	425.67	323.09
						732.07	422.38	323.09
						733.74	422.50	323.09
1065				324.61		629.79	266.86	324.61
						629.72	292.13	324.61
						631.14	304.73	324.61
						634.61	309.72	324.61
						641.91	310.67	324.61
						667.11	310.14	324.61
						681.50	310.46	324.61
						683.70	312.35	324.61
						682.13	315.76	324.61
						685.33	329.46	324.61
						685.66	343.55	324.61
						684.34	357.31	324.61
						692.31	364.26	324.61
						693.04	360.02	324.61
						694.69	358.17	324.61

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						696.48	355.26	324.61
						697.67	352.35	324.61
						701.04	349.30	324.61
						700.71	353.14	324.61
						700.18	358.30	324.61
						701.04	363.33	324.61
						703.75	363.46	324.61
						708.15	358.12	324.61
						711.36	353.62	324.61
						711.34	349.56	324.61
						710.44	346.59	324.61
						709.58	344.27	324.61
						706.01	342.32	324.61
						703.37	343.91	324.61
						702.57	344.34	324.61
						706.11	341.63	324.61
						708.82	342.92	324.61
						710.94	344.34	324.61
						712.43	346.98	324.61
						713.22	349.63	324.61
						712.83	356.15	324.61
						712.21	359.84	324.61
						709.43	362.93	324.61
						709.11	365.05	324.61
						705.50	368.99	324.61
						707.98	368.95	324.61
						708.15	370.54	324.61
						715.67	367.09	324.61
						716.93	367.25	324.61
						724.49	364.73	324.61
						738.30	363.31	324.61
						745.28	364.52	324.61
						748.76	366.48	324.61
						752.40	372.30	324.61
						754.45	379.84	324.61
						756.21	384.51	324.61
						755.84	389.13	324.61
						755.53	394.33	324.61
						752.39	405.22	324.61
						745.40	412.94	324.61
						738.54	418.33	324.61
						730.20	418.60	324.61
						724.97	420.25	324.61
						719.61	419.86	324.61
						702.68	423.30	324.61
						706.71	423.83	324.61
						706.58	426.01	324.61

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						711.34	427.46	324.61
						713.06	430.24	324.61
						717.63	430.97	324.61
						727.62	433.22	324.61
						734.96	434.87	324.61
						744.74	435.04	324.61
						749.50	436.89	324.61
						749.42	441.68	324.61
						747.57	446.64	324.61
						746.05	451.01	324.61
						746.31	457.76	324.61
1065				324.61		738.48	455.52	324.61
						735.36	452.66	324.61
						735.75	443.41	324.61
						737.00	445.14	324.61
						738.46	445.28	324.61
						739.50	446.35	324.61
						739.67	448.85	324.61
						740.96	451.41	324.61
						742.21	452.72	324.61
						741.23	455.89	324.61
						738.88	455.87	324.61
1070				326.14		625.93	267.74	326.14
						625.63	279.95	326.14
						626.88	296.91	326.14
						627.99	305.89	326.14
						630.14	311.72	326.14
						636.55	313.92	326.14
						643.16	314.24	326.14
						654.77	313.14	326.14
						671.36	313.56	326.14
						672.78	315.40	326.14
						670.78	331.52	326.14
						673.10	348.65	326.14
1070				326.14		667.43	449.90	326.14
						679.61	437.93	326.14
						694.21	437.93	326.14
						699.67	436.77	326.14
						682.24	436.04	326.14
						669.64	434.77	326.14
						669.11	431.10	326.14
						666.17	429.42	326.14
						659.03	429.10	326.14
						657.98	424.90	326.14
						655.99	422.17	326.14
						660.61	422.28	326.14
						670.90	419.86	326.14

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						689.17	419.65	326.14
						707.45	417.34	326.14
						716.90	416.08	326.14
						728.97	415.98	326.14
						738.63	414.79	326.14
						744.39	409.96	326.14
						748.03	402.55	326.14
						747.63	390.97	326.14
						746.18	379.13	326.14
						742.29	370.30	326.14
						739.40	367.63	326.14
						732.79	367.05	326.14
						727.38	368.10	326.14
						718.59	370.11	326.14
						717.80	372.42	326.14
						708.25	377.05	326.14
						697.69	388.07	326.14
						693.49	385.13	326.14
						689.34	386.29	326.14
						683.67	385.24	326.14
						679.63	380.88	326.14
						677.76	372.26	326.14
						678.49	351.69	326.14
						676.43	358.24	326.14
						676.63	370.81	326.14
						674.52	372.13	326.14
1070				326.14		729.70	455.45	326.14
						731.79	447.45	326.14
						733.83	449.20	326.14
						731.75	458.16	326.14
1075				327.66		621.45	268.98	327.66
						622.60	289.67	327.66
						625.75	310.46	327.66
						630.90	316.34	327.66
						643.82	316.97	327.66
						663.45	316.97	327.66
						663.87	326.21	327.66
						664.04	345.38	327.66
						662.62	384.48	327.66
1075				327.66		614.71	438.35	327.66
						611.14	436.88	327.66
						620.91	422.70	327.66
						635.40	420.07	327.66
						669.85	417.45	327.66
1080				329.18		611.37	325.72	329.18
						613.55	318.58	329.18
						613.02	302.04	329.18

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						615.60	290.66	329.18
						619.04	286.36	329.18
						621.56	308.39	329.18
						624.73	317.19	329.18
						631.28	319.44	329.18
						641.60	320.30	329.18
						643.12	328.77	329.18
						641.55	365.31	329.18
						637.05	409.77	329.18
1080				329.18		611.10	418.42	329.18
						633.72	416.17	329.18
						669.74	413.67	329.18
						653.36	413.04	329.18
1085				330.71		611.00	353.52	330.71
						624.17	321.10	330.71
						639.67	323.35	330.71
						641.17	342.94	330.71
						637.50	372.66	330.71
						625.99	404.67	330.71
						621.66	413.67	330.71
						619.16	413.00	330.71
						609.49	415.58	330.71
1090				332.23		610.76	365.79	332.23
						635.96	338.80	332.23
						633.44	354.24	332.23
						625.36	383.85	332.23
						617.48	402.23	332.23
						611.18	411.05	332.23
						602.99	412.42	332.23
Golden Gate Circle		R_6				626.93	736.30	324.31
						620.90	444.39	327.66
						618.07	437.98	327.66
						613.87	435.67	327.66
Elm Street		R_6				442.05	94.43	321.87
						444.57	341.51	340.77
						447.93	563.37	332.54
						451.46	806.69	330.71
Madison Ave		R_3				83.87	429.38	333.15
						196.08	429.86	328.27
						262.77	427.86	337.41
						358.81	429.20	334.67
						436.18	428.53	336.80
						486.20	429.20	333.15
						615.41	429.55	327.66
15 SB		R_2				96.74	953.36	337.72
						744.27	803.56	323.70
						1026.67	741.49	327.05

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
15 NB		R_1				325.72	949.26	332.84
						796.15	836.38	325.22
						1019.79	781.18	327.66
Jefferson Ave NB		R_4				89.06	195.70	321.56
						123.73	193.44	321.56
						229.74	171.77	322.17
						277.07	167.44	321.56
						340.75	172.44	321.87
						448.76	196.78	323.39
						505.09	209.44	322.17
						558.77	214.44	320.65
						621.21	207.30	319.74
						672.14	193.17	317.91
						709.32	178.72	319.13
						801.25	138.91	320.34
						852.05	126.74	320.95
						897.58	122.92	321.26
						1029.33	110.39	319.43
Jefferson Ave SB		R_5				89.06	182.08	321.56
						123.73	180.09	321.26
						229.74	159.22	322.17
						277.07	155.42	322.17
						340.75	159.89	321.87
						448.76	184.75	322.78
						505.09	197.42	321.87
						558.77	200.57	321.56
						621.21	195.28	319.43
						666.97	183.11	319.43
						709.32	167.23	318.52
						801.51	128.27	320.95
						852.58	117.09	320.95
						897.41	113.09	321.56
						1029.59	102.09	320.65

Sound Level Spectra

Name	ID	Type	Oktave Spectrum (dB)												Source
			Weight.	31.5	63	125	250	500	1000	2000	4000	8000	A	lin	
Concrete Mixer	S3	Lw			112.9	103.9	95.9	98.9	99.9	107.9	89.9	84.9	109.9	114.8	DEFRA
Concrete Pump	S4	Lw			113.5	105.5	99.5	100.5	102.5	102.5	95.5	87.5	107.3	115.0	DEFRA

Eilar Associates, Inc.

210 South Juniper Street, Suite 100

Escondido, California 92025-4230

Phone: (760) 738-5570

Date: 23 Jun 2020

Calculation Configuration

Configuration	
Parameter	Value
General	
Country	(user defined)
Max. Error (dB)	0.00
Max. Search Radius (#(Unit,LEN))	2000.00
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (#(Unit,LEN))	1000.00
Min. Length of Section (#(Unit,LEN))	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	960.00
Reference Time Night (min)	480.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	6.00
Night-time Penalty (dB)	10.00
DTM	
Standard Height (m)	0.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	0
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rcvr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	Excl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (#(Unit,TEMP))	10
rel. Humidity (%)	70
Ground Absorption G	0.70
Wind Speed for Dir. (#(Unit,SPEED))	3.0
Roads (TNM)	
Railways (Schall 03 (1990))	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	

Receivers

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height	Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type		X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)	(m)	(m)	(m)
R1			61.8	-80.2	0.0	0.0		x	Total	1.52	776.82	384.67	322.95

Area Sources

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.	Moving Pt. Src		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night				Number		
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(m²)		(min)	(min)	(min)	(dB)	(Hz)		Day	Evening	Night
Paver	+		104.9	4.9	4.9	64.8	-35.2	-35.2	PWL-Pt	S13		0.0	0.0	0.0				30.00	0.00	0.00	0.0		(none)	1.0	0.0	0.0
Roller	+		107.4	7.4	7.4	67.3	-32.7	-32.7	PWL-Pt	S14		0.0	0.0	0.0				12.00	0.00	0.00	0.0		(none)	1.0	0.0	0.0
Dump Truck	+		108.9	8.9	8.9	68.0	-32.0	-32.0	PWL-Pt	S6		0.0	0.0	0.0				24.00	0.00	0.00	0.0		(none)	1.0	0.0	0.0

Geometry - Area Sources

Name	Height			Coordinates			
	Begin	End		x	y	z	Ground
	(m)	(m)		(m)	(m)	(m)	(m)
Paver	1.52	r		644.77	407.92	330.53	329.01
				745.25	406.19	327.66	326.14
				755.37	394.68	326.15	324.63
				735.54	392.35	327.66	326.14
				736.20	362.51	325.80	324.28
				780.88	358.34	322.59	321.07
				781.60	311.79	322.84	321.32
				676.01	315.64	327.13	325.61
				654.70	328.22	329.85	328.33
				648.90	343.51	330.25	328.73
Roller	1.52	r		644.77	407.92	330.53	329.01
				745.25	406.19	327.66	326.14
				755.37	394.68	326.15	324.63
				735.54	392.35	327.66	326.14
				736.20	362.51	325.80	324.28
				780.88	358.34	322.59	321.07
				781.60	311.79	322.84	321.32
				676.01	315.64	327.13	325.61
				654.70	328.22	329.85	328.33
				648.90	343.51	330.25	328.73
Dump Truck	1.52	r		644.77	407.92	330.53	329.01
				745.25	406.19	327.66	326.14
				761.22	397.58	324.79	323.27
				776.83	379.98	322.88	321.36
				790.82	360.08	322.11	320.59
				798.14	339.36	321.56	320.04
				781.60	311.79	322.84	321.32
				676.01	315.64	327.13	325.61
				654.70	328.22	329.85	328.33
				648.90	343.51	330.25	328.73

Terrain Contours

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
				327.05	325.53	639.60	551.05	327.05
						723.76	547.88	325.53
				323.70	322.17	640.66	783.97	323.70
						709.47	759.09	322.17
1040				316.99		765.63	457.96	316.99
						768.47	448.03	316.99
						775.15	440.42	316.99
						789.91	411.11	316.99
						788.19	418.46	316.99
						791.30	420.11	316.99
						791.23	417.86	316.99
						800.23	411.94	316.99
						800.40	405.69	316.99
						804.57	394.84	316.99
						804.70	388.95	316.99
						805.10	384.52	316.99
						804.57	383.46	316.99
						793.72	405.43	316.99
						793.45	403.84	316.99
						806.53	378.95	316.99
						810.36	368.39	316.99
						820.13	356.47	316.99
						829.22	343.89	316.99
						835.55	333.72	316.99
						837.39	338.97	316.99
						842.47	343.39	316.99
						842.72	329.88	316.99
						842.71	324.03	316.99
						865.37	277.64	316.99
1040				316.99		773.52	435.05	316.99
						770.08	434.32	316.99
						770.94	423.07	316.99
						777.43	414.41	316.99
						781.00	417.45	316.99
						779.01	424.40	316.99
						775.84	429.62	316.99
						773.85	435.18	316.99
1040				316.99		762.47	457.48	316.99
						763.73	448.81	316.99
						767.70	441.34	316.99
						768.10	431.81	316.99
						768.89	423.07	316.99
						773.65	416.46	316.99
						778.35	412.69	316.99
						781.46	409.77	316.99

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						785.10	397.00	316.99
						790.46	384.90	316.99
						796.72	375.65	316.99
						801.15	367.75	316.99
						815.91	346.45	316.99
						821.34	339.53	316.99
						827.49	327.87	316.99
						829.29	322.15	316.99
						833.15	317.58	316.99
						835.27	314.23	316.99
						835.58	309.40	316.99
						837.68	302.10	316.99
						840.07	297.62	316.99
						840.96	292.89	316.99
						842.54	285.85	316.99
						844.74	284.33	316.99
						844.32	277.08	316.99
1045				318.52		867.57	278.12	318.52
						844.98	323.97	318.52
						844.72	358.94	318.52
						842.22	358.90	318.52
						835.26	363.36	318.52
						829.63	373.40	318.52
						827.55	376.16	318.52
						822.66	384.82	318.52
						822.82	389.70	318.52
						821.14	391.17	318.52
						816.81	394.68	318.52
						815.01	396.80	318.52
						809.76	404.26	318.52
						812.14	409.55	318.52
						806.65	419.74	318.52
						795.40	434.10	318.52
						789.85	445.61	318.52
						787.27	451.50	318.52
						785.41	458.58	318.52
1045				318.52		838.60	279.13	318.52
						837.81	286.06	318.52
						837.86	295.78	318.52
						830.11	311.99	318.52
						823.36	322.08	318.52
						815.32	341.05	318.52
						809.32	353.30	318.52
						792.09	379.25	318.52
						781.34	400.00	318.52
						772.83	410.93	318.52
						767.08	416.51	318.52

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						761.76	421.74	318.52
						762.42	430.66	318.52
						760.09	441.66	318.52
						755.34	450.58	318.52
						754.34	461.50	318.52
1050				320.04		751.40	456.24	320.04
						751.07	452.86	320.04
						753.25	449.22	320.04
						756.17	443.27	320.04
						758.08	437.12	320.04
1050				320.04		787.12	458.73	320.04
						790.62	447.35	320.04
						795.52	437.09	320.04
						798.69	432.93	320.04
						802.86	428.56	320.04
						805.94	426.57	320.04
						812.21	426.88	320.04
						818.35	422.34	320.04
						820.66	407.55	320.04
						820.61	400.24	320.04
						825.98	396.53	320.04
						832.48	395.58	320.04
						834.02	393.41	320.04
						833.95	387.28	320.04
						833.32	379.41	320.04
						836.37	372.58	320.04
						843.19	368.69	320.04
						847.56	363.14	320.04
						847.56	323.64	320.04
						853.34	311.04	320.04
						863.84	301.17	320.04
1050				320.04		757.87	421.07	320.04
						764.44	415.61	320.04
						765.44	410.20	320.04
						771.53	409.21	320.04
						775.10	404.85	320.04
						779.46	399.54	320.04
						783.66	390.30	320.04
						789.08	380.04	320.04
						792.33	374.29	320.04
						794.77	372.30	320.04
						801.52	359.27	320.04
						803.77	352.32	320.04
						808.87	346.96	320.04
						794.94	338.03	320.04
						800.93	338.86	320.04
						809.96	342.40	320.04

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						808.84	340.01	320.04
						810.16	339.52	320.04
						812.08	338.86	320.04
						815.32	330.19	320.04
						818.52	322.73	320.04
						820.57	318.21	320.04
						823.93	310.28	320.04
						831.48	301.35	320.04
						834.65	298.51	320.04
						835.91	277.33	320.04
1055				321.56		635.48	264.99	321.56
						635.90	293.50	321.56
						637.40	302.42	321.56
						639.82	303.08	321.56
						642.86	304.45	321.56
						736.01	302.03	321.56
						755.59	301.87	321.56
						770.18	301.78	321.56
						772.35	303.03	321.56
						777.43	301.78	321.56
						785.10	302.12	321.56
						781.93	305.28	321.56
						776.76	305.45	321.56
						771.01	307.79	321.56
						770.93	310.95	321.56
						760.34	317.79	321.56
						756.93	324.62	321.56
						754.41	330.40	321.56
						756.82	334.70	321.56
						755.14	337.75	321.56
						762.60	343.42	321.56
						765.85	352.55	321.56
						772.34	362.21	321.56
						774.19	375.05	321.56
						776.31	388.94	321.56
						779.08	390.13	321.56
						773.79	400.71	321.56
						765.06	404.68	321.56
						751.56	416.46	321.56
						746.38	422.78	321.56
						744.53	423.77	321.56
						741.24	423.27	321.56
						740.16	421.60	321.56
						738.57	423.89	321.56
						744.95	424.69	321.56
						747.03	425.81	321.56
						749.20	426.64	321.56

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						752.98	429.63	321.56
						756.78	434.51	321.56
						755.29	440.30	321.56
						754.30	444.55	321.56
						752.25	449.70	321.56
						750.72	450.96	321.56
						749.67	450.96	321.56
						749.15	453.42	321.56
						750.04	454.37	321.56
						750.15	456.89	321.56
1055				321.56		866.77	361.33	321.56
						863.72	361.43	321.56
						858.68	367.63	321.56
						853.33	377.08	321.56
						847.66	379.92	321.56
						863.41	396.30	321.56
						863.72	401.56	321.56
						868.66	408.59	321.56
						895.00	423.60	321.56
1055				321.56		787.82	458.34	321.56
						796.23	438.70	321.56
						803.37	431.25	321.56
						807.88	429.57	321.56
						818.49	436.18	321.56
						813.77	436.81	321.56
						811.14	440.17	321.56
						811.88	443.64	321.56
						813.24	444.06	321.56
						810.93	448.89	321.56
						812.61	459.29	321.56
1055				321.56		814.61	312.52	321.56
						819.03	309.40	321.56
						819.20	304.02	321.56
						814.15	311.56	321.56
						815.32	313.27	321.56
1060				323.09		633.28	266.49	323.09
						632.82	291.16	323.09
						634.01	303.73	323.09
						637.18	306.71	323.09
						667.81	306.77	323.09
						694.01	306.51	323.09
						700.63	309.22	323.09
						700.49	313.26	323.09
						702.74	323.77	323.09
						704.79	332.90	323.09
						710.55	335.29	323.09
						724.04	342.76	323.09

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						732.45	350.70	323.09
						737.54	358.70	323.09
						749.78	359.76	323.09
						756.72	362.74	323.09
						760.96	369.42	323.09
						761.55	373.13	323.09
						764.26	381.29	323.09
						764.84	394.58	323.09
						758.85	401.82	323.09
						750.56	412.48	323.09
						744.47	418.36	323.09
						733.91	422.51	323.09
1060				323.09		748.77	456.72	323.09
						748.09	449.10	323.09
						751.72	446.37	323.09
						752.19	443.59	323.09
						752.92	442.07	323.09
						752.77	438.44	323.09
						753.13	437.50	323.09
						747.83	429.25	323.09
						741.99	425.25	323.09
						738.16	427.46	323.09
						734.95	424.38	323.09
						731.95	425.05	323.09
						729.28	428.59	323.09
						727.70	424.13	323.09
						725.41	422.29	323.09
						727.41	420.75	323.09
						729.53	425.25	323.09
						730.70	425.67	323.09
						732.07	422.38	323.09
						733.74	422.50	323.09
1065				324.61		629.79	266.86	324.61
						629.72	292.13	324.61
						631.14	304.73	324.61
						634.61	309.72	324.61
						641.91	310.67	324.61
						667.11	310.14	324.61
						681.50	310.46	324.61
						683.70	312.35	324.61
						682.13	315.76	324.61
						685.33	329.46	324.61
						685.66	343.55	324.61
						684.34	357.31	324.61
						692.31	364.26	324.61
						693.04	360.02	324.61
						694.69	358.17	324.61

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						696.48	355.26	324.61
						697.67	352.35	324.61
						701.04	349.30	324.61
						700.71	353.14	324.61
						700.18	358.30	324.61
						701.04	363.33	324.61
						703.75	363.46	324.61
						708.15	358.12	324.61
						711.36	353.62	324.61
						711.34	349.56	324.61
						710.44	346.59	324.61
						709.58	344.27	324.61
						706.01	342.32	324.61
						703.37	343.91	324.61
						702.57	344.34	324.61
						706.11	341.63	324.61
						708.82	342.92	324.61
						710.94	344.34	324.61
						712.43	346.98	324.61
						713.22	349.63	324.61
						712.83	356.15	324.61
						712.21	359.84	324.61
						709.43	362.93	324.61
						709.11	365.05	324.61
						705.50	368.99	324.61
						707.98	368.95	324.61
						708.15	370.54	324.61
						715.67	367.09	324.61
						716.93	367.25	324.61
						724.49	364.73	324.61
						738.30	363.31	324.61
						745.28	364.52	324.61
						748.76	366.48	324.61
						752.40	372.30	324.61
						754.45	379.84	324.61
						756.21	384.51	324.61
						755.84	389.13	324.61
						755.53	394.33	324.61
						752.39	405.22	324.61
						745.40	412.94	324.61
						738.54	418.33	324.61
						730.20	418.60	324.61
						724.97	420.25	324.61
						719.61	419.86	324.61
						702.68	423.30	324.61
						706.71	423.83	324.61
						706.58	426.01	324.61

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						711.34	427.46	324.61
						713.06	430.24	324.61
						717.63	430.97	324.61
						727.62	433.22	324.61
						734.96	434.87	324.61
						744.74	435.04	324.61
						749.50	436.89	324.61
						749.42	441.68	324.61
						747.57	446.64	324.61
						746.05	451.01	324.61
						746.31	457.76	324.61
1065				324.61		738.48	455.52	324.61
						735.36	452.66	324.61
						735.75	443.41	324.61
						737.00	445.14	324.61
						738.46	445.28	324.61
						739.50	446.35	324.61
						739.67	448.85	324.61
						740.96	451.41	324.61
						742.21	452.72	324.61
						741.23	455.89	324.61
						738.88	455.87	324.61
1070				326.14		625.93	267.74	326.14
						625.63	279.95	326.14
						626.88	296.91	326.14
						627.99	305.89	326.14
						630.14	311.72	326.14
						636.55	313.92	326.14
						643.16	314.24	326.14
						654.77	313.14	326.14
						671.36	313.56	326.14
						672.78	315.40	326.14
						670.78	331.52	326.14
						673.10	348.65	326.14
1070				326.14		667.43	449.90	326.14
						679.61	437.93	326.14
						694.21	437.93	326.14
						699.67	436.77	326.14
						682.24	436.04	326.14
						669.64	434.77	326.14
						669.11	431.10	326.14
						666.17	429.42	326.14
						659.03	429.10	326.14
						657.98	424.90	326.14
						655.99	422.17	326.14
						660.61	422.28	326.14
						670.90	419.86	326.14

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						689.17	419.65	326.14
						707.45	417.34	326.14
						716.90	416.08	326.14
						728.97	415.98	326.14
						738.63	414.79	326.14
						744.39	409.96	326.14
						748.03	402.55	326.14
						747.63	390.97	326.14
						746.18	379.13	326.14
						742.29	370.30	326.14
						739.40	367.63	326.14
						732.79	367.05	326.14
						727.38	368.10	326.14
						718.59	370.11	326.14
						717.80	372.42	326.14
						708.25	377.05	326.14
						697.69	388.07	326.14
						693.49	385.13	326.14
						689.34	386.29	326.14
						683.67	385.24	326.14
						679.63	380.88	326.14
						677.76	372.26	326.14
						678.49	351.69	326.14
						676.43	358.24	326.14
						676.63	370.81	326.14
						674.52	372.13	326.14
1070				326.14		729.70	455.45	326.14
						731.79	447.45	326.14
						733.83	449.20	326.14
						731.75	458.16	326.14
1075				327.66		621.45	268.98	327.66
						622.60	289.67	327.66
						625.75	310.46	327.66
						630.90	316.34	327.66
						643.82	316.97	327.66
						663.45	316.97	327.66
						663.87	326.21	327.66
						664.04	345.38	327.66
						662.62	384.48	327.66
1075				327.66		614.71	438.35	327.66
						611.14	436.88	327.66
						620.91	422.70	327.66
						635.40	420.07	327.66
						669.85	417.45	327.66
1080				329.18		611.37	325.72	329.18
						613.55	318.58	329.18
						613.02	302.04	329.18

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						615.60	290.66	329.18
						619.04	286.36	329.18
						621.56	308.39	329.18
						624.73	317.19	329.18
						631.28	319.44	329.18
						641.60	320.30	329.18
						643.12	328.77	329.18
						641.55	365.31	329.18
						637.05	409.77	329.18
1080				329.18		611.10	418.42	329.18
						633.72	416.17	329.18
						669.74	413.67	329.18
						653.36	413.04	329.18
1085				330.71		611.00	353.52	330.71
						624.17	321.10	330.71
						639.67	323.35	330.71
						641.17	342.94	330.71
						637.50	372.66	330.71
						625.99	404.67	330.71
						621.66	413.67	330.71
						619.16	413.00	330.71
						609.49	415.58	330.71
1090				332.23		610.76	365.79	332.23
						635.96	338.80	332.23
						633.44	354.24	332.23
						625.36	383.85	332.23
						617.48	402.23	332.23
						611.18	411.05	332.23
						602.99	412.42	332.23
Golden Gate Circle		R_6				626.93	736.30	324.31
						620.90	444.39	327.66
						618.07	437.98	327.66
						613.87	435.67	327.66
Elm Street		R_6				442.05	94.43	321.87
						444.57	341.51	340.77
						447.93	563.37	332.54
						451.46	806.69	330.71
Madison Ave		R_3				83.87	429.38	333.15
						196.08	429.86	328.27
						262.77	427.86	337.41
						358.81	429.20	334.67
						436.18	428.53	336.80
						486.20	429.20	333.15
						615.41	429.55	327.66
15 SB		R_2				96.74	953.36	337.72
						744.27	803.56	323.70
						1026.67	741.49	327.05

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
15 NB		R_1				325.72	949.26	332.84
						796.15	836.38	325.22
						1019.79	781.18	327.66
Jefferson Ave NB		R_4				89.06	195.70	321.56
						123.73	193.44	321.56
						229.74	171.77	322.17
						277.07	167.44	321.56
						340.75	172.44	321.87
						448.76	196.78	323.39
						505.09	209.44	322.17
						558.77	214.44	320.65
						621.21	207.30	319.74
						672.14	193.17	317.91
						709.32	178.72	319.13
						801.25	138.91	320.34
						852.05	126.74	320.95
						897.58	122.92	321.26
						1029.33	110.39	319.43
Jefferson Ave SB		R_5				89.06	182.08	321.56
						123.73	180.09	321.26
						229.74	159.22	322.17
						277.07	155.42	322.17
						340.75	159.89	321.87
						448.76	184.75	322.78
						505.09	197.42	321.87
						558.77	200.57	321.56
						621.21	195.28	319.43
						666.97	183.11	319.43
						709.32	167.23	318.52
						801.51	128.27	320.95
						852.58	117.09	320.95
						897.41	113.09	321.56
						1029.59	102.09	320.65

Sound Level Spectra

Name	ID	Type	Oktave Spectrum (dB)												Source
			Weight.	31.5	63	125	250	500	1000	2000	4000	8000	A	lin	
Paver	S13	Lw			100.4	105.4	102.4	100.4	99.4	98.4	95.4	88.4	104.9	109.7	DEFRA
Roller	S14	Lw			113.8	108.8	110.8	105.8	100.8	95.8	87.8	79.8	107.4	116.9	DEFRA
Dump Truck	S6	Lw			117.7	113.7	104.7	102.7	104.7	101.7	97.7	89.7	108.9	119.6	DEFRA

Eilar Associates, Inc.

210 South Juniper Street, Suite 100

Escondido, California 92025-4230

Phone: (760) 738-5570

Date: 04 Jun 2020

Calculation Configuration

Configuration	
Parameter	Value
General	
Country	(user defined)
Max. Error (dB)	0.00
Max. Search Radius (#(Unit,LEN))	2000.00
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (#(Unit,LEN))	1000.00
Min. Length of Section (#(Unit,LEN))	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	960.00
Reference Time Night (min)	480.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	6.00
Night-time Penalty (dB)	10.00
DTM	
Standard Height (m)	0.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	0
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rcvr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	Excl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (#(Unit,TEMP))	10
rel. Humidity (%)	70
Ground Absorption G	0.70
Wind Speed for Dir. (#(Unit,SPEED))	3.0
Roads (TNM)	
Railways (Schall 03 (1990))	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	

Receivers

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height	Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type		X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)	(m)	(m)	(m)
R1			53.4	-80.2	0.0	0.0		x	Total	1.52	776.82	384.67	322.95

Area Sources

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.	Moving Pt. Src		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night				Number		
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(m²)		(min)	(min)	(min)	(dB)	(Hz)		Day	Evening	Night
Air Compressor			94.4	-5.6	-5.6	57.8	-42.2	-42.2	PWL-Pt	S1		0.0	0.0	0.0				24.00	0.00	0.00	0.0		(none)	1.0	0.0	0.0
Telescopic Forklift			108.0	8.0	8.0	71.4	-28.6	-28.6	PWL-Pt	S8		0.0	0.0	0.0				24.00	0.00	0.00	0.0		(none)	1.0	0.0	0.0

Geometry - Area Sources

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)
Air Compressor	1.52	r	669.11	397.90	329.64	328.12
			718.95	395.73	327.66	326.14
			721.46	359.73	325.92	324.40
			780.46	357.73	322.60	321.08
			777.80	334.22	322.45	320.93
			668.78	334.89	328.11	326.59
Telescopic Forklift	1.52	r	669.11	397.90	329.64	328.12
			718.95	395.73	327.66	326.14
			721.46	359.73	325.92	324.40
			780.46	357.73	322.60	321.08
			777.80	334.22	322.45	320.93
			668.78	334.89	328.11	326.59

Terrain Contours

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
				327.05	325.53	639.60	551.05	327.05
						723.76	547.88	325.53
				323.70	322.17	640.66	783.97	323.70
						709.47	759.09	322.17
1040				316.99		765.63	457.96	316.99
						768.47	448.03	316.99
						775.15	440.42	316.99
						789.91	411.11	316.99
						788.19	418.46	316.99
						791.30	420.11	316.99
						791.23	417.86	316.99
						800.23	411.94	316.99
						800.40	405.69	316.99
						804.57	394.84	316.99
						804.70	388.95	316.99
						805.10	384.52	316.99
						804.57	383.46	316.99
						793.72	405.43	316.99
						793.45	403.84	316.99
						806.53	378.95	316.99
						810.36	368.39	316.99
						820.13	356.47	316.99
						829.22	343.89	316.99
						835.55	333.72	316.99
						837.39	338.97	316.99
						842.47	343.39	316.99
						842.72	329.88	316.99
						842.71	324.03	316.99
						865.37	277.64	316.99
1040				316.99		773.52	435.05	316.99
						770.08	434.32	316.99
						770.94	423.07	316.99
						777.43	414.41	316.99
						781.00	417.45	316.99
						779.01	424.40	316.99
						775.84	429.62	316.99
						773.85	435.18	316.99
1040				316.99		762.47	457.48	316.99
						763.73	448.81	316.99
						767.70	441.34	316.99
						768.10	431.81	316.99
						768.89	423.07	316.99
						773.65	416.46	316.99
						778.35	412.69	316.99
						781.46	409.77	316.99

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						785.10	397.00	316.99
						790.46	384.90	316.99
						796.72	375.65	316.99
						801.15	367.75	316.99
						815.91	346.45	316.99
						821.34	339.53	316.99
						827.49	327.87	316.99
						829.29	322.15	316.99
						833.15	317.58	316.99
						835.27	314.23	316.99
						835.58	309.40	316.99
						837.68	302.10	316.99
						840.07	297.62	316.99
						840.96	292.89	316.99
						842.54	285.85	316.99
						844.74	284.33	316.99
						844.32	277.08	316.99
1045				318.52		867.57	278.12	318.52
						844.98	323.97	318.52
						844.72	358.94	318.52
						842.22	358.90	318.52
						835.26	363.36	318.52
						829.63	373.40	318.52
						827.55	376.16	318.52
						822.66	384.82	318.52
						822.82	389.70	318.52
						821.14	391.17	318.52
						816.81	394.68	318.52
						815.01	396.80	318.52
						809.76	404.26	318.52
						812.14	409.55	318.52
						806.65	419.74	318.52
						795.40	434.10	318.52
						789.85	445.61	318.52
						787.27	451.50	318.52
						785.41	458.58	318.52
1045				318.52		838.60	279.13	318.52
						837.81	286.06	318.52
						837.86	295.78	318.52
						830.11	311.99	318.52
						823.36	322.08	318.52
						815.32	341.05	318.52
						809.32	353.30	318.52
						792.09	379.25	318.52
						781.34	400.00	318.52
						772.83	410.93	318.52
						767.08	416.51	318.52

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						761.76	421.74	318.52
						762.42	430.66	318.52
						760.09	441.66	318.52
						755.34	450.58	318.52
						754.34	461.50	318.52
1050				320.04		751.40	456.24	320.04
						751.07	452.86	320.04
						753.25	449.22	320.04
						756.17	443.27	320.04
						758.08	437.12	320.04
1050				320.04		787.12	458.73	320.04
						790.62	447.35	320.04
						795.52	437.09	320.04
						798.69	432.93	320.04
						802.86	428.56	320.04
						805.94	426.57	320.04
						812.21	426.88	320.04
						818.35	422.34	320.04
						820.66	407.55	320.04
						820.61	400.24	320.04
						825.98	396.53	320.04
						832.48	395.58	320.04
						834.02	393.41	320.04
						833.95	387.28	320.04
						833.32	379.41	320.04
						836.37	372.58	320.04
						843.19	368.69	320.04
						847.56	363.14	320.04
						847.56	323.64	320.04
						853.34	311.04	320.04
						863.84	301.17	320.04
1050				320.04		757.87	421.07	320.04
						764.44	415.61	320.04
						765.44	410.20	320.04
						771.53	409.21	320.04
						775.10	404.85	320.04
						779.46	399.54	320.04
						783.66	390.30	320.04
						789.08	380.04	320.04
						792.33	374.29	320.04
						794.77	372.30	320.04
						801.52	359.27	320.04
						803.77	352.32	320.04
						808.87	346.96	320.04
						794.94	338.03	320.04
						800.93	338.86	320.04
						809.96	342.40	320.04

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						808.84	340.01	320.04
						810.16	339.52	320.04
						812.08	338.86	320.04
						815.32	330.19	320.04
						818.52	322.73	320.04
						820.57	318.21	320.04
						823.93	310.28	320.04
						831.48	301.35	320.04
						834.65	298.51	320.04
						835.91	277.33	320.04
1055				321.56		635.48	264.99	321.56
						635.90	293.50	321.56
						637.40	302.42	321.56
						639.82	303.08	321.56
						642.86	304.45	321.56
						736.01	302.03	321.56
						755.59	301.87	321.56
						770.18	301.78	321.56
						772.35	303.03	321.56
						777.43	301.78	321.56
						785.10	302.12	321.56
						781.93	305.28	321.56
						776.76	305.45	321.56
						771.01	307.79	321.56
						770.93	310.95	321.56
						760.34	317.79	321.56
						756.93	324.62	321.56
						754.41	330.40	321.56
						756.82	334.70	321.56
						755.14	337.75	321.56
						762.60	343.42	321.56
						765.85	352.55	321.56
						772.34	362.21	321.56
						774.19	375.05	321.56
						776.31	388.94	321.56
						779.08	390.13	321.56
						773.79	400.71	321.56
						765.06	404.68	321.56
						751.56	416.46	321.56
						746.38	422.78	321.56
						744.53	423.77	321.56
						741.24	423.27	321.56
						740.16	421.60	321.56
						738.57	423.89	321.56
						744.95	424.69	321.56
						747.03	425.81	321.56
						749.20	426.64	321.56

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						752.98	429.63	321.56
						756.78	434.51	321.56
						755.29	440.30	321.56
						754.30	444.55	321.56
						752.25	449.70	321.56
						750.72	450.96	321.56
						749.67	450.96	321.56
						749.15	453.42	321.56
						750.04	454.37	321.56
						750.15	456.89	321.56
1055				321.56		866.77	361.33	321.56
						863.72	361.43	321.56
						858.68	367.63	321.56
						853.33	377.08	321.56
						847.66	379.92	321.56
						863.41	396.30	321.56
						863.72	401.56	321.56
						868.66	408.59	321.56
						895.00	423.60	321.56
1055				321.56		787.82	458.34	321.56
						796.23	438.70	321.56
						803.37	431.25	321.56
						807.88	429.57	321.56
						818.49	436.18	321.56
						813.77	436.81	321.56
						811.14	440.17	321.56
						811.88	443.64	321.56
						813.24	444.06	321.56
						810.93	448.89	321.56
						812.61	459.29	321.56
1055				321.56		814.61	312.52	321.56
						819.03	309.40	321.56
						819.20	304.02	321.56
						814.15	311.56	321.56
						815.32	313.27	321.56
1060				323.09		633.28	266.49	323.09
						632.82	291.16	323.09
						634.01	303.73	323.09
						637.18	306.71	323.09
						667.81	306.77	323.09
						694.01	306.51	323.09
						700.63	309.22	323.09
						700.49	313.26	323.09
						702.74	323.77	323.09
						704.79	332.90	323.09
						710.55	335.29	323.09
						724.04	342.76	323.09

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						732.45	350.70	323.09
						737.54	358.70	323.09
						749.78	359.76	323.09
						756.72	362.74	323.09
						760.96	369.42	323.09
						761.55	373.13	323.09
						764.26	381.29	323.09
						764.84	394.58	323.09
						758.85	401.82	323.09
						750.56	412.48	323.09
						744.47	418.36	323.09
						733.91	422.51	323.09
1060				323.09		748.77	456.72	323.09
						748.09	449.10	323.09
						751.72	446.37	323.09
						752.19	443.59	323.09
						752.92	442.07	323.09
						752.77	438.44	323.09
						753.13	437.50	323.09
						747.83	429.25	323.09
						741.99	425.25	323.09
						738.16	427.46	323.09
						734.95	424.38	323.09
						731.95	425.05	323.09
						729.28	428.59	323.09
						727.70	424.13	323.09
						725.41	422.29	323.09
						727.41	420.75	323.09
						729.53	425.25	323.09
						730.70	425.67	323.09
						732.07	422.38	323.09
						733.74	422.50	323.09
1065				324.61		629.79	266.86	324.61
						629.72	292.13	324.61
						631.14	304.73	324.61
						634.61	309.72	324.61
						641.91	310.67	324.61
						667.11	310.14	324.61
						681.50	310.46	324.61
						683.70	312.35	324.61
						682.13	315.76	324.61
						685.33	329.46	324.61
						685.66	343.55	324.61
						684.34	357.31	324.61
						692.31	364.26	324.61
						693.04	360.02	324.61
						694.69	358.17	324.61

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						696.48	355.26	324.61
						697.67	352.35	324.61
						701.04	349.30	324.61
						700.71	353.14	324.61
						700.18	358.30	324.61
						701.04	363.33	324.61
						703.75	363.46	324.61
						708.15	358.12	324.61
						711.36	353.62	324.61
						711.34	349.56	324.61
						710.44	346.59	324.61
						709.58	344.27	324.61
						706.01	342.32	324.61
						703.37	343.91	324.61
						702.57	344.34	324.61
						706.11	341.63	324.61
						708.82	342.92	324.61
						710.94	344.34	324.61
						712.43	346.98	324.61
						713.22	349.63	324.61
						712.83	356.15	324.61
						712.21	359.84	324.61
						709.43	362.93	324.61
						709.11	365.05	324.61
						705.50	368.99	324.61
						707.98	368.95	324.61
						708.15	370.54	324.61
						715.67	367.09	324.61
						716.93	367.25	324.61
						724.49	364.73	324.61
						738.30	363.31	324.61
						745.28	364.52	324.61
						748.76	366.48	324.61
						752.40	372.30	324.61
						754.45	379.84	324.61
						756.21	384.51	324.61
						755.84	389.13	324.61
						755.53	394.33	324.61
						752.39	405.22	324.61
						745.40	412.94	324.61
						738.54	418.33	324.61
						730.20	418.60	324.61
						724.97	420.25	324.61
						719.61	419.86	324.61
						702.68	423.30	324.61
						706.71	423.83	324.61
						706.58	426.01	324.61

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						711.34	427.46	324.61
						713.06	430.24	324.61
						717.63	430.97	324.61
						727.62	433.22	324.61
						734.96	434.87	324.61
						744.74	435.04	324.61
						749.50	436.89	324.61
						749.42	441.68	324.61
						747.57	446.64	324.61
						746.05	451.01	324.61
						746.31	457.76	324.61
1065				324.61		738.48	455.52	324.61
						735.36	452.66	324.61
						735.75	443.41	324.61
						737.00	445.14	324.61
						738.46	445.28	324.61
						739.50	446.35	324.61
						739.67	448.85	324.61
						740.96	451.41	324.61
						742.21	452.72	324.61
						741.23	455.89	324.61
						738.88	455.87	324.61
1070				326.14		625.93	267.74	326.14
						625.63	279.95	326.14
						626.88	296.91	326.14
						627.99	305.89	326.14
						630.14	311.72	326.14
						636.55	313.92	326.14
						643.16	314.24	326.14
						654.77	313.14	326.14
						671.36	313.56	326.14
						672.78	315.40	326.14
						670.78	331.52	326.14
						673.10	348.65	326.14
1070				326.14		667.43	449.90	326.14
						679.61	437.93	326.14
						694.21	437.93	326.14
						699.67	436.77	326.14
						682.24	436.04	326.14
						669.64	434.77	326.14
						669.11	431.10	326.14
						666.17	429.42	326.14
						659.03	429.10	326.14
						657.98	424.90	326.14
						655.99	422.17	326.14
						660.61	422.28	326.14
						670.90	419.86	326.14

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						689.17	419.65	326.14
						707.45	417.34	326.14
						716.90	416.08	326.14
						728.97	415.98	326.14
						738.63	414.79	326.14
						744.39	409.96	326.14
						748.03	402.55	326.14
						747.63	390.97	326.14
						746.18	379.13	326.14
						742.29	370.30	326.14
						739.40	367.63	326.14
						732.79	367.05	326.14
						727.38	368.10	326.14
						718.59	370.11	326.14
						717.80	372.42	326.14
						708.25	377.05	326.14
						697.69	388.07	326.14
						693.49	385.13	326.14
						689.34	386.29	326.14
						683.67	385.24	326.14
						679.63	380.88	326.14
						677.76	372.26	326.14
						678.49	351.69	326.14
						676.43	358.24	326.14
						676.63	370.81	326.14
						674.52	372.13	326.14
1070				326.14		729.70	455.45	326.14
						731.79	447.45	326.14
						733.83	449.20	326.14
						731.75	458.16	326.14
1075				327.66		621.45	268.98	327.66
						622.60	289.67	327.66
						625.75	310.46	327.66
						630.90	316.34	327.66
						643.82	316.97	327.66
						663.45	316.97	327.66
						663.87	326.21	327.66
						664.04	345.38	327.66
						662.62	384.48	327.66
1075				327.66		614.71	438.35	327.66
						611.14	436.88	327.66
						620.91	422.70	327.66
						635.40	420.07	327.66
						669.85	417.45	327.66
1080				329.18		611.37	325.72	329.18
						613.55	318.58	329.18
						613.02	302.04	329.18

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
						615.60	290.66	329.18
						619.04	286.36	329.18
						621.56	308.39	329.18
						624.73	317.19	329.18
						631.28	319.44	329.18
						641.60	320.30	329.18
						643.12	328.77	329.18
						641.55	365.31	329.18
						637.05	409.77	329.18
1080				329.18		611.10	418.42	329.18
						633.72	416.17	329.18
						669.74	413.67	329.18
						653.36	413.04	329.18
1085				330.71		611.00	353.52	330.71
						624.17	321.10	330.71
						639.67	323.35	330.71
						641.17	342.94	330.71
						637.50	372.66	330.71
						625.99	404.67	330.71
						621.66	413.67	330.71
						619.16	413.00	330.71
						609.49	415.58	330.71
1090				332.23		610.76	365.79	332.23
						635.96	338.80	332.23
						633.44	354.24	332.23
						625.36	383.85	332.23
						617.48	402.23	332.23
						611.18	411.05	332.23
						602.99	412.42	332.23
Golden Gate Circle		R_6				626.93	736.30	324.31
						620.90	444.39	327.66
						618.07	437.98	327.66
						613.87	435.67	327.66
Elm Street		R_6				442.05	94.43	321.87
						444.57	341.51	340.77
						447.93	563.37	332.54
						451.46	806.69	330.71
Madison Ave		R_3				83.87	429.38	333.15
						196.08	429.86	328.27
						262.77	427.86	337.41
						358.81	429.20	334.67
						436.18	428.53	336.80
						486.20	429.20	333.15
						615.41	429.55	327.66
215 SB		R_2				96.74	953.36	337.72
						744.27	803.56	323.70
						1026.67	741.49	327.05

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)
215 NB		R_1				325.72	949.26	332.84
						796.15	836.38	325.22
						1019.79	781.18	327.66
Jefferson Ave NB		R_4				89.06	195.70	321.56
						123.73	193.44	321.56
						229.74	171.77	322.17
						277.07	167.44	321.56
						340.75	172.44	321.87
						448.76	196.78	323.39
						505.09	209.44	322.17
						558.77	214.44	320.65
						621.21	207.30	319.74
						672.14	193.17	317.91
						709.32	178.72	319.13
						801.25	138.91	320.34
						852.05	126.74	320.95
						897.58	122.92	321.26
						1029.33	110.39	319.43
Jefferson Ave SB		R_5				89.06	182.08	321.56
						123.73	180.09	321.26
						229.74	159.22	322.17
						277.07	155.42	322.17
						340.75	159.89	321.87
						448.76	184.75	322.78
						505.09	197.42	321.87
						558.77	200.57	321.56
						621.21	195.28	319.43
						666.97	183.11	319.43
						709.32	167.23	318.52
						801.51	128.27	320.95
						852.58	117.09	320.95
						897.41	113.09	321.56
						1029.59	102.09	320.65

Sound Level Spectra

Name	ID	Type	Oktave Spectrum (dB)												Source
			Weight.	31.5	63	125	250	500	1000	2000	4000	8000	A	lin	
Air Compressor	S1	Lw			112.9	101.9	92.9	87.9	85.9	83.9	86.9	75.9	94.4	113.3	Measured
Telescopic Forklift	S8	Lw			122.5	116.5	106.5	104.5	101.5	99.5	93.5	84.5	108.0	123.7	Measured