SUMNER PLACE

NOISE AND VIBRATION ANALYSIS

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TABLE OF CONTENTS

EXECUTIVE SUMMARY 7
1 INTRODUCTION 9
1.1 Site Location 9
1.2 Project Description 9
2 FUNDAMENTALS 13
2.1 Range of Noise 13
2.2 Noise Descriptors 14
2.3 Sound Propagation 14
2.4 Noise Control 15
2.5 Noise Barrier Attenuation 15
2.6 Land Use Compatibility With Noise 15
2.7 Community Response to Noise 16
2.8 Vibration 16
3 REGULATORY SETTING 19
3.1 State of California Noise Requirements 19
3.2 State of California Building Standards 19
3.3 City of Eastvale General Plan Noise Element 19
3.4 Construction Noise Standards 22
3.5 Construction Vibration Standards 23
3.6 Chino Airport Overlay Zone 23
4 SIGNIFICANCE CRITERIA 25
4.1 Noise Level Increases (Threshold A) 25
4.2 Vibration (Threshold B) 26
4.3 CEQA Guidelines Not Further Analyzed (Threshold C) 26
4.4 Significance Criteria Summary 27
5 EXISTING NOISE LEVEL MEASUREMENTS 29
5.1 Measurement Procedure and Criteria 29
5.2 Noise Measurement Locations 29
5.3 Noise Measurement Results 31
6 METHODS AND PROCEDURES 33
6.1 FHWA Traffic Noise Prediction Model 33
6.2 On-Site Traffic Noise Prediction Model Inputs 33
7 ON-SITE TRAFFIC NOISE IMPACTS 35
7.1 On-Site Exterior Noise Analysis 35
7.2 On-Site Interior Noise Analysis 35
8 OFF-SITE TRANSPORTATION NOISE IMPACTS 39
9 RECEIVER LOCATIONS 41
10 OPERATIONAL NOISE ANALYSIS 45
10.1 Operational Noise Sources 45
10.2 Reference Noise Levels 45
10.3 CadnaA Noise Prediction Model 47
10.4 Project Operational Noise Levels 48
10.5 Project Operational Noise Level Compliance 50
10.6 Project Operational Noise Level Increases 50

11 CONSTRUCTION IMPACTS 53
11.1 Construction Noise Levels 53
11.2 Construction Reference Noise Levels 53
11.3 Construction Noise Analysis 55
11.4 Project Site Construction Noise Level Compliance 56
11.5 Temporary Construction Noise Level Increases 57
11.6 Construction Vibration Analysis 58
11.7 Construction Vibration Impacts Mitigation 60

12 REFERENCES 63
13 CERTIFICATION 65

APPENDICES

APPENDIX 3.1: CITY OF EASTVALE MUNICIPAL CODE
APPENDIX 5.1: STUDY AREA PHOTOS
APPENDIX 5.2: NOISE LEVEL MEASUREMENT WORKSHEETS
APPENDIX 6.1: SITE PLAN
APPENDIX 7.1: ON-SITE TRAFFIC NOISE LEVEL CALCULATIONS
APPENDIX 7.2: INTERIOR NOISE REDUCTION
APPENDIX 10.1: SAMPLE AIR CONDITIONING UNIT
APPENDIX 10.2: CADNAA OPERATIONAL NOISE CALCULATIONS
APPENDIX 11.1: CONSTRUCTION NOISE CALCULATIONS

LIST OF EXHIBITS

EXHIBIT ES-1: SUMMARY OF RECOMMENDATIONS 8
EXHIBIT 1-1: PROJECT LOCATION 10
EXHIBIT 1-2: PRELIMINARY SITE PLAN 11
EXHIBIT 2-1: TYPICAL NOISE LEVELS 13
EXHIBIT 2-2: NOISE LEVEL INCREASE PERCEPTION 16
EXHIBIT 2-3: TYPICAL LEVELS OF GROUND-BORNE VIBRATION 18
EXHIBIT 3-1: NOISE COMPATIBILITY BY LAND USE DESIGNATION 21
EXHIBIT 3-2: NOISE COMPATIBILITY BY LAND USE DESIGNATION ACCEPTABILITY 22
EXHIBIT 3-3: CHINO AIRPORT LONG-TERM NOISE CONTOURS 24
EXHIBIT 5-1: NOISE MEASUREMENT LOCATIONS 30
EXHIBIT 9-1: RECEIVER LOCATIONS 43
EXHIBIT 10-1: OPERATIONAL NOISE SOURCE LOCATIONS 46
EXHIBIT 11-1: CONSTRUCTION NOISE SOURCE LOCATIONS 54

LIST OF TABLES

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS 7
TABLE 4-1: SIGNIFICANCE CRITERIA SUMMARY 27
TABLE 5-1: AMBIENT NOISE LEVEL MEASUREMENTS 31
TABLE 6-1: ON-SITE ROADWAY PARAMETERS 33
TABLE 6-2: TIME OF DAY VEHICLE SPLITS 34
TABLE 7-1: FUTURE EXTERIOR NOISE LEVELS 35
TABLE 7-2: NOISE REDUCTION CALCULATIONS (CNEL) 36
TABLE 7-3: FIRST FLOOR INTERIOR NOISE IMPACTS 37
TABLE 7-4: SECOND FLOOR INTERIOR NOISE IMPACTS 37
TABLE 7-5: THIRD FLOOR INTERIOR NOISE IMPACTS 38
TABLE 10-1: REFERENCE NOISE LEVEL MEASUREMENTS 47
TABLE 10-2: DAYTIME PROJECT OPERATIONAL NOISE LEVELS 49
TABLE 10-3: NIGHTTIME PROJECT OPERATIONAL NOISE LEVELS 49
TABLE 10-4: OPERATIONAL NOISE LEVEL COMPLIANCE 50
TABLE 10-5: DAYTIME PROJECT OPERATIONAL NOISE LEVEL INCREASES 51
TABLE 10-6: NIGHTTIME OPERATIONAL NOISE LEVEL INCREASES 52
TABLE 11-1: CONSTRUCTION REFERENCE NOISE LEVELS 55
TABLE 11-2: CONSTRUCTION EQUIPMENT NOISE LEVEL SUMMARY 56
TABLE 11-3: CONSTRUCTION NOISE LEVEL COMPLIANCE 57
TABLE 11-4: DAYTIME CONSTRUCTION NOISE LEVEL INCREASES 58
TABLE 11-5: VIBRATION SOURCE LEVELS FOR CONSTRUCTION EQUIPMENT 59
TABLE 11-6: PROJECT CONSTRUCTION VIBRATION LEVELS – UNMITIGATED 60
TABLE 11-7: PROJECT CONSTRUCTION VIBRATION LEVELS – MITIGATED 61

LIST OF ABBREVIATED TERMS

(1)	Reference
ANSI	American National Standards Institute
CalEEMod	California Emission Estimator Model
Calveno	California Vehicle Noise
CEQA	California Environmental Quality Act
CNEL	Community Noise Equivalent Level
dBA	A-weighted decibels
EIR	Environmental Impact Report
EPA	Environmental Protection Agency
FHWA	Federal Highway Administration
FTA	Federal Transit Administration
INCE	Institute of Noise Control Engineering
L_{eq}	Equivalent continuous (average) sound level
L_{max}	Maximum level measured over the time interval
mph	Miles per hour
PPV	Peak Particle Velocity
Project	Sumner Place
REMEL	Reference Energy Mean Emission Level
RMS	Root-mean-square
VdB	Vibration Decibels

EXECUTIVE SUMMARY

Urban Crossroads, Inc. has prepared this noise study to determine the noise exposure and the necessary noise mitigation measures for the Sumner Place (Project) in the City of Eastvale. The Project consists of the development of up to 159 residential dwelling units. This noise study has been prepared to satisfy applicable City of Eastvale noise standards and significance criteria based on Appendix G of the California Environmental Quality Act (CEQA) Guidelines. (1)

The results of this Noise and Vibration Analysis are summarized below based on the significance criteria in Section 4 of this report, consistent with Appendix G of the California Environmental Quality Act (CEQA) Guidelines. (1) Table ES-1 shows the findings of significance for each potential noise and/or vibration impact under CEQA before and after any required mitigation measures.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

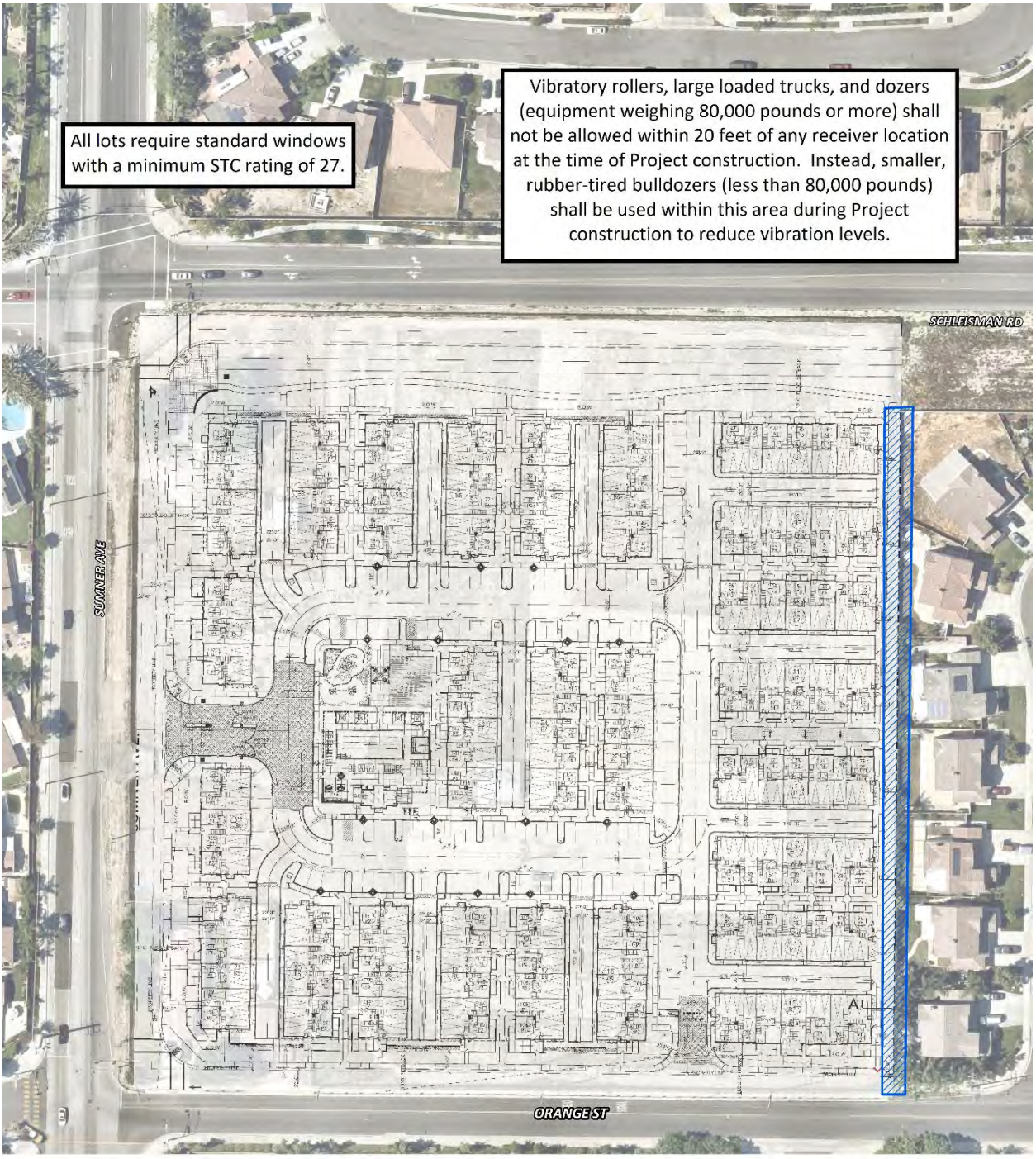
Analysis	Report Section	Significance Findings	
		Unmitigated	Mitigated
On-Site Traffic Noise[1]	7	-	-
Off-Site Traffic Noise	8	*Less Than Significant*	-
Operational Noise	10	*Less Than Significant*	-
Project Construction Noise	11	*Less Than Significant*	-
Construction Vibration	11	*Significant*	*Less Than Significant*

[1] The effects of the environment on a Project are not an impact under CEQA and are provided for informational purposes.

Construction Vibration Mitigation

NOI-2: To reduce the *significant* vibration-related impact, a 20-foot heavy-equipment buffer zone is recommended to restrict the use of heavy construction equipment (i.e., greater than 80,000 pounds), vibratory rollers, and jackhammers within 20 feet of occupied vibration-sensitive receiver locations. With the recommended vibration measure identified in this analysis and shown in ES-1, the vibration-related impacts will be reduced to *less than significant*.

EXHIBIT ES-1: SUMMARY OF RECOMMENDATIONS



1 INTRODUCTION

This Noise and Vibration Analysis has been completed to determine the noise impacts associated with the development of the Sumner Place (Project). This noise and vibration analysis briefly describes the Project, provides information regarding noise fundamentals, sets out the local regulatory setting, presents the study methods and procedures for noise analysis, evaluates the future exterior noise environment, potential off-site traffic impacts, the Project-related long-term stationary-source operational noise, and Project-related short-term construction noise and vibration impacts.

1.1 SITE LOCATION

The Project site is located south of Schleisman Road and east of Sumner Avenue in the City of Eastvale. The Project is bounded by residential uses to the north, east, south, and west of the Project site as shown in Exhibit 1-1.

1.2 PROJECT DESCRIPTION

A preliminary site plan for the Project is shown in Exhibit 1-1. The Project will include the development of 159 residential dwelling units.

EXHIBIT 1-1: PROJECT LOCATION

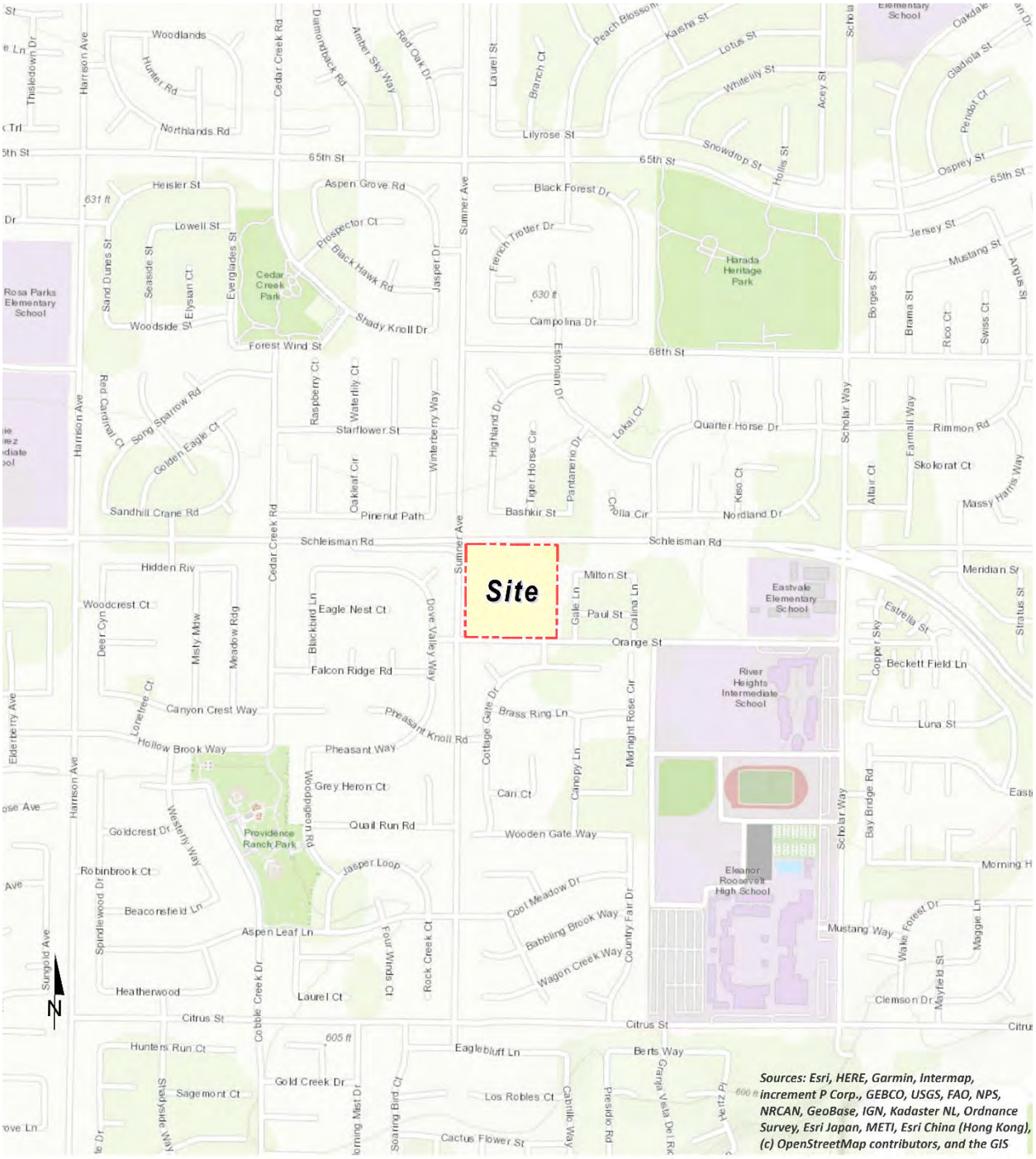
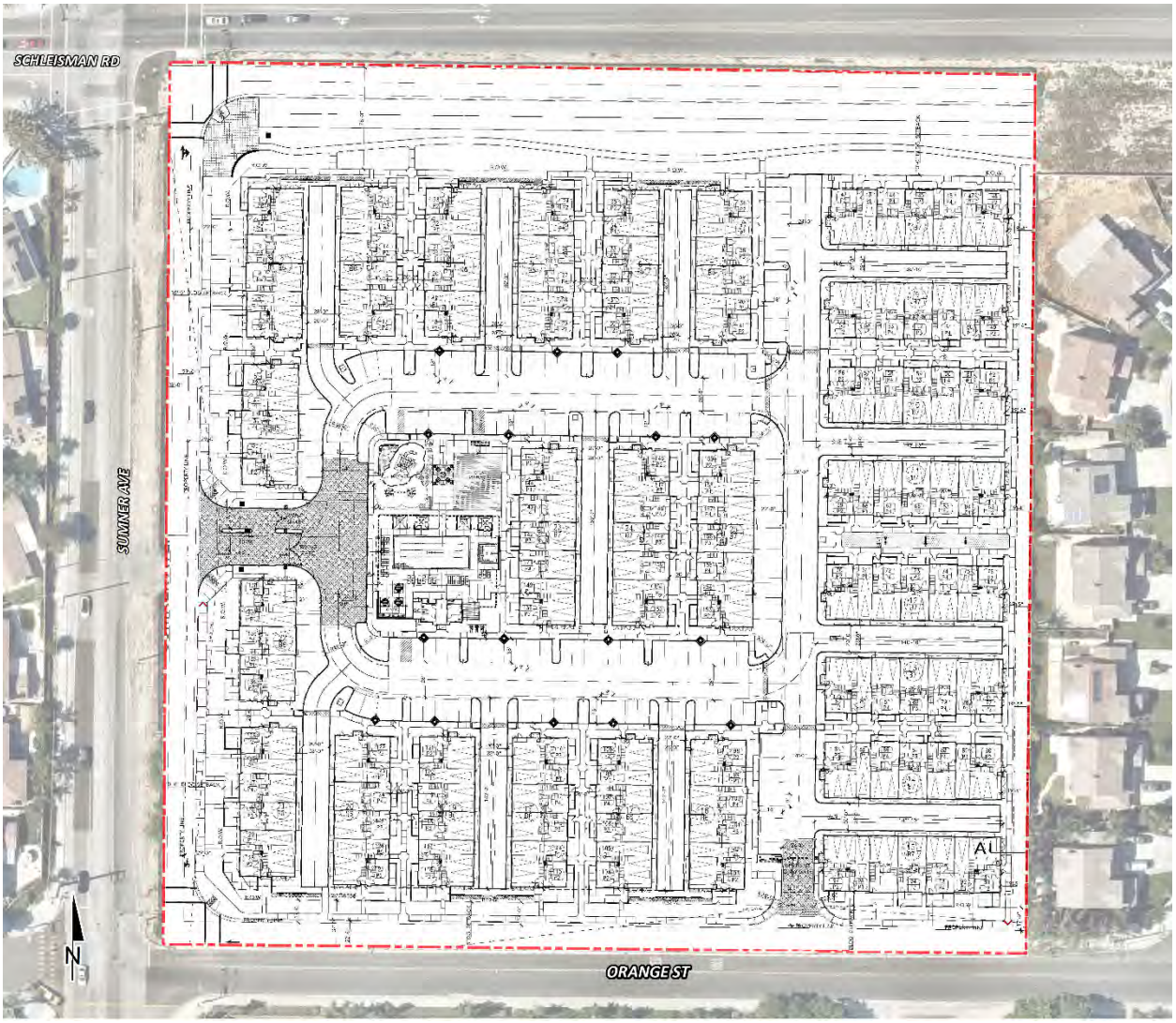


EXHIBIT 1-2: PRELIMINARY SITE PLAN



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2 FUNDAMENTALS

Noise is simply defined as "unwanted sound." Sound becomes unwanted when it interferes with normal activities, when it causes actual physical harm, or when it has adverse effects on health. Noise is measured on a logarithmic scale of sound pressure level known as a decibel (dB). A-weighted decibels (dBA) approximate the subjective response of the human ear to broad frequency noise source by discriminating against very low and very high frequencies of the audible spectrum. They are adjusted to reflect only those frequencies which are audible to the human ear. Exhibit 2-1 presents a summary of the typical noise levels and their subjective loudness and effects that are described in more detail below.

EXHIBIT 2-1: TYPICAL NOISE LEVELS

COMMON OUTDOOR ACTIVITIES	COMMON INDOOR ACTIVITIES	A - WEIGHTED SOUND LEVEL dBA	SUBJECTIVE LOUDNESS	EFFECTS OF NOISE
THRESHOLD OF PAIN		140	INTOLERABLE OR DEAFENING	HEARING LOSS
NEAR JET ENGINE		130		
		120		
JET FLY-OVER AT 300m (1000 ft)	ROCK BAND	110		
LOUD AUTO HORN		100	VERY NOISY	
GAS LAWN MOWER AT 1m (3 ft)		90		
DIESEL TRUCK AT 15m (50 ft), at 80 km/hr (50 mph)	FOOD BLENDER AT 1m (3 ft)	80		SPEECH INTERFERENCE
NOISY URBAN AREA, DAYTIME	VACUUM CLEANER AT 3m (10 ft)	70	LOUD	
HEAVY TRAFFIC AT 90m (300 ft)	NORMAL SPEECH AT 1m (3 ft)	60		
QUIET URBAN DAYTIME	LARGE BUSINESS OFFICE	50	MODERATE	SLEEP DISTURBANCE
QUIET URBAN NIGHTTIME	THEATER, LARGE CONFERENCE ROOM (BACKGROUND)	40		
QUIET SUBURBAN NIGHTTIME	LIBRARY	30	FAINT	NO EFFECT
QUIET RURAL NIGHTTIME	BEDROOM AT NIGHT, CONCERT HALL (BACKGROUND)	20		
	BROADCAST/RECORDING STUDIO	10	VERY FAINT	
LOWEST THRESHOLD OF HUMAN HEARING	LOWEST THRESHOLD OF HUMAN HEARING	0		

Source: 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 (EPA/ONAC 550/9-74-004) March 1974.

2.1 RANGE OF NOISE

Since the range of intensities that the human ear can detect is so large, the scale frequently used to measure intensity is a scale based on multiples of 10, the logarithmic scale. The scale for measuring intensity is the decibel scale. Each interval of 10 decibels indicates a sound energy ten times greater than before, which is perceived by the human ear as being roughly twice as loud. (2) The most common sounds vary between 40 dBA (very quiet) to 100 dBA (very loud). Normal conversation at three feet is roughly at 60 dBA, while loud jet engine noises equate to 110 dBA at approximately 1,000 feet, which can cause serious discomfort. (3) Another important aspect of noise is the duration of the sound and the way it is described and distributed in time.

2.2 NOISE DESCRIPTORS

Environmental noise descriptors are generally based on averages, rather than instantaneous, noise levels. The most used metric is the equivalent level (Leq). Equivalent sound levels are not measured directly but are calculated from sound pressure levels typically measured in A-weighted decibels (dBA). The equivalent sound level (Leq) represents a steady state sound level containing the same total energy as a time varying signal over a given sample period and is commonly used to describe the "average" noise levels within the environment.

Peak hour or average noise levels, while useful, do not completely describe a given noise environment. Noise levels lower than peak hour may be disturbing if they occur during times when quiet is most desirable, namely evening and nighttime (sleeping) hours. To account for this, the Community Noise Equivalent Level (CNEL), representing a composite 24-hour noise level is utilized. The CNEL is the weighted average of the intensity of a sound, with corrections for time of day, and averaged over 24 hours. The time-of-day corrections require the addition of 5 decibels to dBA Leq sound levels in the evening from 7:00 p.m. to 10:00 p.m., and the addition of 10 decibels to dBA Leq sound levels at night between 10:00 p.m. and 7:00 a.m. These additions are made to account for the noise sensitive time periods during the evening and night hours when noise can become more intrusive. CNEL does not represent the actual sound level heard at any time, but rather represents the total sound exposure. The City of Eastvale relies on the 24-hour CNEL level to assess land use compatibility with transportation related noise sources.

2.3 SOUND PROPAGATION

When sound propagates over a distance, it changes in level and frequency content. The way noise reduces with distance depends on the following factors.

2.3.1 Geometric Spreading

Sound from a localized source (i.e., a stationary point source) propagates uniformly outward in a spherical pattern. The sound level attenuates (or decreases) at a rate of 6 dB for each doubling of distance from a point source. Highways consist of several localized noise sources on a defined path and hence can be treated as a line source, which approximates the effect of several point sources. Noise from a line source propagates outward in a cylindrical pattern, often referred to as cylindrical spreading. Sound levels attenuate at a rate of 3 dB for each doubling of distance from a line source. (2)

2.3.2 Ground Absorption

The propagation path of noise from a highway to a receiver is usually very close to the ground. Noise attenuation from ground absorption and reflective wave canceling adds to the attenuation associated with geometric spreading. Traditionally, the excess attenuation has also been expressed in terms of attenuation per doubling of distance. This approximation is usually sufficiently accurate for distances of less than 200 ft. For acoustically hard sites (i.e., sites with a reflective surface between the source and the receiver, such as a parking lot or body of water), no excess ground attenuation is assumed. For acoustically absorptive or soft sites (i.e., those sites with an absorptive ground surface between the source and the receiver such as soft dirt, grass, or scattered bushes and trees), an excess ground attenuation value of 1.5 dB per doubling of distance is normally assumed.

When added to the cylindrical spreading, the excess ground attenuation results in an overall drop-off rate of 4.5 dB per doubling of distance from a line source. (4)

2.3.3 Atmospheric Effects

Receivers located downwind from a source can be exposed to increased noise levels relative to calm conditions, whereas locations upwind can have lowered noise levels. Sound levels can be increased at large distances (e.g., more than 500 feet) due to atmospheric temperature inversion (i.e., increasing temperature with elevation). Other factors such as air temperature, humidity, and turbulence can also have significant effects. (2)

2.3.4 Shielding

A large object or barrier in the path between a noise source and a receiver can substantially attenuate noise levels at the receiver. The amount of attenuation provided by shielding depends on the size of the object and the frequency content of the noise source. Shielding by trees and other such vegetation typically only has an "out of sight, out of mind" effect. That is, the perception of noise impact tends to decrease when vegetation blocks the line-of-sight to nearby residents. However, for vegetation to provide a substantial, or even noticeable, noise reduction, the vegetation area must be at least 15 feet in height, 100 feet wide and dense enough to completely obstruct the line-of-sight between the source and the receiver. This size of vegetation may provide up to 5 dBA of noise reduction. The Federal Highway Administration (FHWA) does not consider the planting of vegetation to be a noise abatement measure. (5)

2.4 Noise Control

Noise control is the process of obtaining an acceptable noise environment for an observation point or receiver by controlling the noise source, transmission path, receiver, or all three. This concept is known as the source-path-receiver concept. In general, noise control measures can be applied to these three elements.

2.5 Noise Barrier Attenuation

Effective noise barriers can reduce noise levels by 10 to 15 dBA, cutting the loudness of traffic noise in half. A noise barrier is most effective when placed close to the noise source or receiver. Noise barriers, however, do have limitations. For a noise barrier to work, it must block the line-of-sight path of sound from the noise source.

2.6 Land Use Compatibility With Noise

Some land uses are more tolerant of noise than others. For example, schools, hospitals, churches, and residences are more sensitive to noise intrusion than commercial or industrial developments and related activities. As ambient noise levels affect the perceived amenity or livability of a development, so too can the mismanagement of noise impacts impair the economic health and growth potential of a community by reducing the area's desirability as a place to live, shop and work. For this reason, land use compatibility with the noise environment is an important consideration in the planning and design process. The FHWA encourages State and Local government to regulate land development in such a way that noise-sensitive land uses are either prohibited from being

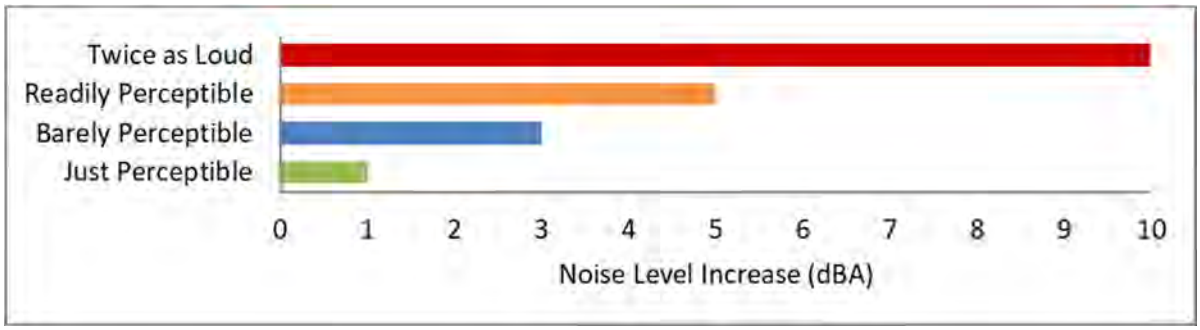
located adjacent to a highway, or that the developments are planned, designed, and constructed in such a way that noise impacts are minimized. (6)

2.7 Community Response to Noise

Approximately sixteen percent of the population has a very low tolerance for noise and will object to any noise not of their making. Consequently, even in the quietest environment, some complaints may occur. Twenty to thirty percent of the population will not complain even in very severe noise environments. (7 pp. 8-6) Thus, a variety of reactions can be expected from people exposed to any given noise environment.

Surveys have shown that community response to noise varies from no reaction to vigorous action for newly introduced noises averaging from 10 dB below existing to 25 dB above existing. (8) According to research originally published in the Noise Effects Handbook (7), the percentage of high annoyance ranges from approximately 0 percent at 45 dB or less, 10 percent are highly annoyed around 60 dB, and increases rapidly to approximately 70 percent being highly annoyed at approximately 85 dB or greater. Despite this variability in behavior on an individual level, the population can be expected to exhibit the following responses to changes in noise levels as shown in Exhibit 2-2. A change of 3 dBA is considered barely perceptible, and changes of 5 dBA are considered readily perceptible. (4)

Exhibit 2-2: Noise Level Increase Perception



2.8 Vibration

Per the Federal Transit Administration (FTA) *Transit Noise and Vibration Impact Assessment Manual*, vibration is the periodic oscillation of a medium or object. The rumbling sound caused by the vibration of room surfaces is called structure-borne noise. Sources of ground-borne vibrations include natural phenomena (e.g., earthquakes, volcanic eruptions, sea waves, landslides) or human-made causes (e.g., explosions, machinery, traffic, trains, construction equipment). Vibration sources may be continuous, such as factory machinery, or transient, such as explosions. As is the case with airborne sound, ground-borne vibrations may be described by amplitude and frequency.

Additionally, in contrast to airborne noise, ground-borne vibration outdoors is not a common environmental problem, and annoyance from ground-borne vibration is almost exclusively an indoor phenomenon (8). Therefore, the effects of vibrations should only be evaluated at a structure, and the effects of the building structure on the vibration should be considered. Wood-frame buildings, such as typical residential structures, are more easily excited by ground vibration than heavier buildings.

In contrast, large masonry buildings with spread footings have a low response to ground vibration (8). In general, the heavier a building is, the lower the response will be to the incident vibration energy. However, all structures reduce vibration levels due to the coupling of the building to the soil.

There are several methods used to quantify vibration levels. Peak Particle Velocity (PPV (in/sec)) is defined as the maximum instantaneous peak of a vibration signal and is most commonly used to evaluate the impact of vibration on buildings (9) (8). However, PPV (in/sec) is not always suitable for assessing human response (e.g., annoyance), as the human body does not respond instantly to vibration signals. Instead, it responds to the average amplitude, more accurately represented by the Root Mean Square (RMS) value of the vibration (8).

RMS is defined as the square root of the average of the squared signal amplitude and is commonly used to evaluate human exposure to vibration. RMS and PPV (in/sec) are mathematically related—RMS is typically about 70% of the PPV (in/sec) for certain waveforms (10) (11). However, deriving RMS from PPV (in/sec) requires knowing the full waveform or making assumptions (e.g., sinusoidal or steady-state signals). Without this information, converting PPV (in/sec) to RMS introduces uncertainty and provides limited insight, especially in cases involving transient or impact vibrations (12).

This distinction is important because human annoyance to vibration is often triggered by abrupt, intermittent events, rather than sustained energy levels. Construction-related vibrations are typically impulsive and broadband, in contrast to the continuous, tonal vibrations associated with transit systems. The FTA's RMS-based criteria were developed with train activity in mind and are not well-suited for construction vibration, where perception is driven by factors like suddenness, impact, and repetition (8).

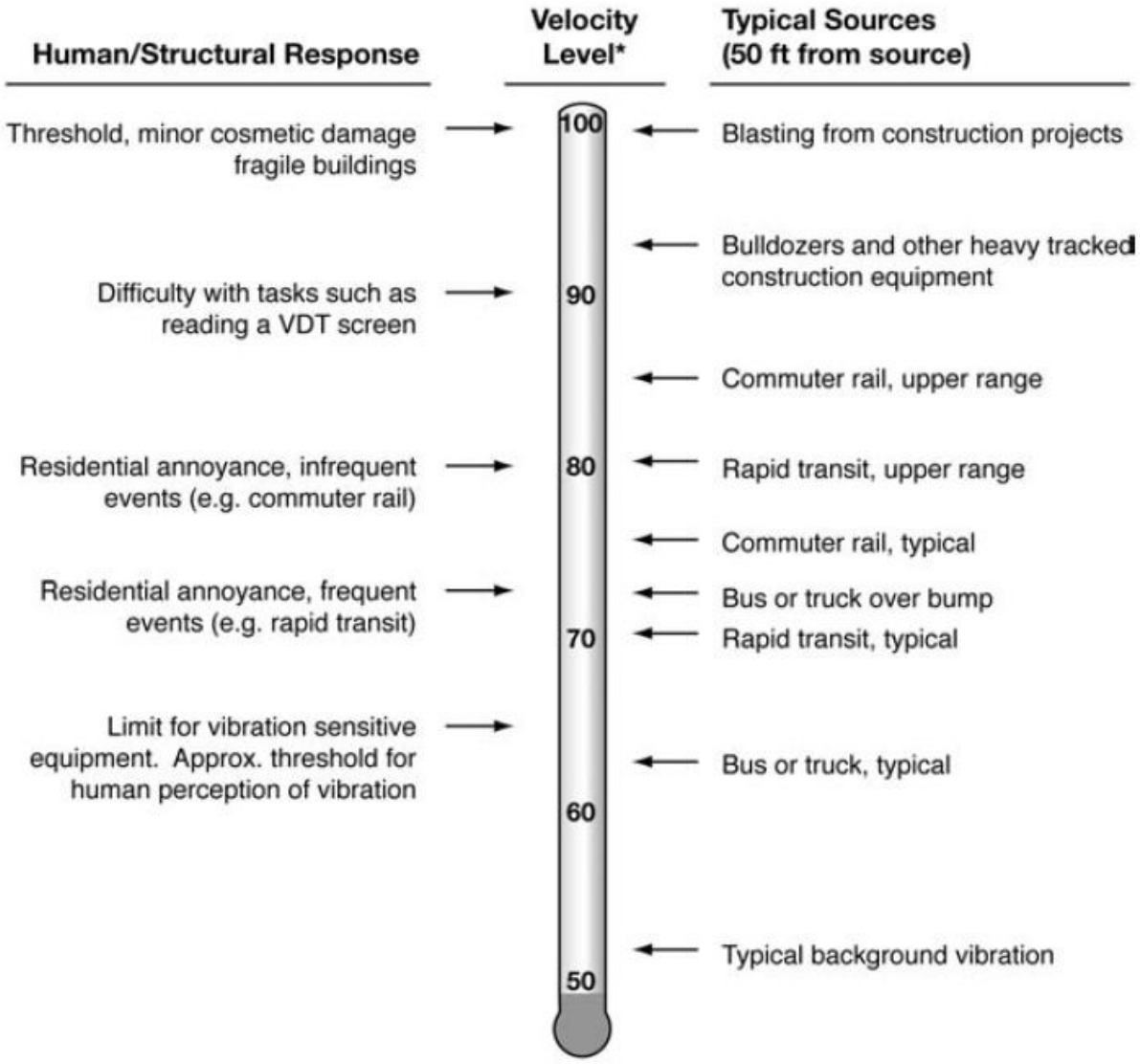
In essence, RMS tends to average out short-duration, high-intensity events—the very events that people find most disturbing. Therefore, for construction activities, PPV (in/sec)-based thresholds, such as those recommended by Caltrans, are more appropriate for assessing potential human annoyance and structural impact (11).

While not universally accepted, vibration decibel notation (VdB) is another RMS-based vibration notation developed and used by the FTA in their guidance manual to describe vibration levels and provide a background of common vibration levels and set vibration limits (8). Decibel notation (VdB) serves to reduce the range of numbers used to describe vibration levels and is used in this report to describe vibration levels.

As stated in the FTA guidance manual, the background vibration-velocity level in residential areas is generally 50 VdB. Ground-borne vibration is normally perceptible to humans at approximately 65 VdB. For most people, a vibration-velocity level of 75 VdB is the approximate dividing line between barely perceptible and distinctly perceptible levels. Typical outdoor sources of perceptible ground-borne vibration are construction equipment, steel-wheeled trains, and traffic on rough roads. If a roadway is smooth, the ground-borne vibration is rarely perceptible. The range of interest is from approximately 50 VdB, which is the typical background vibration-velocity level, to 100 VdB, which is the general threshold where minor damage can occur in fragile buildings. Exhibit 2-C illustrates common vibration sources and the human and structural response to ground-borne vibration 100 VdB, which is the general threshold where minor damage can occur in fragile buildings. Exhibit 2-3

illustrates common vibration sources and the human and structural response to ground-borne vibration.

EXHIBIT 2-3: TYPICAL LEVELS OF GROUND-BORNE VIBRATION



** RMS Vibration Velocity Level in VdB relative to 10^{-6} inches/second*

Source: Federal Transit Administration (FTA) Transit Noise and Vibration Impact Assessment Manual.

3 REGULATORY SETTING

To limit population exposure to physically and/or psychologically damaging as well as intrusive noise levels, the federal government, the State of California, various county governments, and most municipalities in the state have established standards and ordinances to control noise. In most areas, automobile and truck traffic is the major source of environmental noise. Traffic activity generally produces an average sound level that remains constant with time. Air and rail traffic, and commercial and industrial activities are also major sources of noise in some areas. Federal, state, and local agencies regulate different aspects of environmental noise. Federal and state agencies generally set noise standards for mobile sources such as aircraft and motor vehicles, while regulation of stationary sources is left to local agencies.

3.1 STATE OF CALIFORNIA NOISE REQUIREMENTS

The State of California regulates freeway noise, sets standards for sound transmission, provides occupational noise control criteria, identifies noise standards, and provides guidance for local land use compatibility. State law requires that each county and city adopt a General Plan that includes a Noise Element, which is to be prepared per guidelines adopted by the Governor's Office of Planning and Research. (13) The purpose of the Noise Element is to *limit the exposure of the community to excessive noise levels*. In addition, the California Environmental Quality Act (CEQA) requires that all known environmental effects of a project be analyzed, including environmental noise impacts.

3.2 STATE OF CALIFORNIA BUILDING STANDARDS

The State of California's noise insulation standards for all residential units are codified in the California Code of Regulations (CCR), Title 24, Building Standards Administrative Code, Chapter 12, Section 1206. These noise standards are applied to new construction that contains dwelling units or sleeping units, such as residential and hotel or motel uses, in California for controlling interior noise levels resulting from exterior noise sources. For new buildings, the acceptable interior noise limit is 45 dBA CNEL in habitable rooms (14).

3.3 CITY OF EASTVALE GENERAL PLAN NOISE ELEMENT

The City of Eastvale has adopted a Noise Element of the General Plan to control and abate environmental noise, and to protect the citizens of City of Eastvale from excessive exposure to noise. (15) The Noise Element specifies the maximum allowable exterior noise levels for new developments impacted by transportation and stationary noise sources. To protect the City of Eastvale residents from excessive noise, the Noise Element contains the following three goals:

N-1 *Prevent or mitigate the adverse impacts of excessive noise exposure on Eastvale residents, employees, visitors, and other sensitive receptors.*

N-2 *Protect residents from exposure to excessive transportation related noise.*

N-3 *Protect the economic base by preventing incompatible land uses from encroaching upon existing or planned noise producing uses. Prevent the introduction of new fixed noise sources in noise sensitive areas.*

3.3.1 Transportation Noise & Land Use Compatibility

The noise criteria identified in the City of Eastvale Noise Element (Table N-3) is a guideline to evaluate the land use compatibility of transportation-related noise. The compatibility criteria, shown in Exhibit 3-1, provide the City with a planning tool to gauge the compatibility of land uses relative to existing and future exterior noise levels

Table N-3 *Noise Compatibility by Land Use Designation* in the City of Eastvale The General Plan provides guidelines to evaluate the acceptability of the transportation-related noise level impacts. Multi-family Residential land use in the Project study area, is considered *normally acceptable* with exterior noise levels below 65 dBA CNEL and *conditionally acceptable* with noise levels between 60 to 70 dBA CNEL. Single-family use is considered *completely acceptable* with exterior noise levels less than 60 dBA CNEL, and *conditionally acceptable* with exterior noise levels between 55-70 dBA CNEL. (15)

3.3.2 Stationary-Source Noise Level Standards

To analyze noise impacts originating from a designated fixed location or private property such as the Project, stationary-source (operational) noise levels such as the expected ground mounted air conditioning units, and parking lot vehicle movements, as well as noise from construction activities are typically evaluated against standards established under the City's Municipal Code.

Section 8.52.040 of the City of Eastvale Municipal Code establishes the noise level standards for stationary noise sources. Since the Project's land use will potentially impact adjacent noise-sensitive uses in the Project study area, this noise study relies on the residential noise level standards to describe Project-related operational noise impacts. For residential properties, the exterior noise level shall not exceed 55 dBA L_{eq} during the daytime hours (7:00 a.m. to 10:00 p.m.) and 45 dBA L_{eq} during the nighttime hours (10:00 p.m. to 7:00 a.m.). The City of Eastvale Municipal Code is included in Appendix 3.1.

3.3.3 Vibration Level Standards

Construction activity can result in varying degrees of ground-borne vibration, depending on the equipment and methods used, distance to the affected structures and soil type. Construction vibration is generally associated with pile driving and rock blasting. Other construction equipment, such as air compressors, light trucks, hydraulic loaders, etc., generates little or no ground vibration. (8) To analyze vibration impacts originating from the operation and construction of the Project, vibration-generating activities are appropriately evaluated against standards established under the Municipal Code if such standards exist. However, the City of Eastvale does not identify specific construction vibration level limits. Therefore, for analysis purposes, the Caltrans *Transportation and Construction Vibration Guidance Manual*, (11 p. 38) Table 19, vibration damage is used in this noise study to assess potential temporary construction-related impacts at adjacent building locations. The nearest noise sensitive buildings adjacent to the Project site can best be described as "older residential structures" with a maximum acceptable continuous vibration threshold of 0.30 PPV (in/sec).

EXHIBIT 3-1: NOISE COMPATIBILITY BY LAND USE DESIGNATION

Land Use	Community Noise Exposure (L_{dn} or CNEL, dBA)1			
	Normally Acceptable	Conditionally Acceptable	Normally Unacceptable	Clearly Unacceptable
Residential – Low Density, Single-Family, Duplex, Mobile Homes	50–60	55–70	70–75	75–85
Residential – Multiple Family	50–65	60–70	70–75	70–85
Transient Lodging – Motel, Hotels	50–65	60–70	70–80	80–85
Schools, Libraries, Churches, Hospitals, Nursing Homes	50–70	60–70	70–80	80–85
Auditoriums, Concert Halls, Amphitheaters	NA	50–70	NA	65–85
Sports Arenas, Outdoor Spectator Sports	NA	50–75	NA	70–85
Playgrounds, Neighborhood Parks	50–70	NA	67.5–75	72.5–85
Golf Courses, Riding Stables, Water Recreation, Cemeteries	50–70	NA	70–80	80–85
Office Buildings, Business Commercial and Professional	50–70	67.5–77.5	75–85	NA
Industrial, Manufacturing, Utilities, Agriculture	50–75	70–80	75–85	NA

Source: City of Eastvale General Plan Noise Element, Table N-3.

EXHIBIT 3-2: NOISE COMPATIBILITY BY LAND USE DESIGNATION ACCEPTABILITY

Land Use	Community Noise Exposure (L_{dn} or CNEL, dBA)1			
	Normally Acceptable	Conditionally Acceptable	Normally Unacceptable	Clearly Unacceptable

Notes: NA = not applicable; Ldn = average day/night sound level; CNEL = community noise equivalent level

1. Normally Acceptable – Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal conventional construction, without any special noise insulation requirements.
2. Conditionally Acceptable – New construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made, and needed noise insulation features included in the design. Conventional construction, but with closed windows and fresh air supply systems or air conditioning will normally suffice.
3. Normally Unacceptable – New construction or development should be discouraged. If new construction or development does proceed, a detailed analysis of the noise reduction requirements must be made, and needed noise insulation features included in the design.
4. Clearly Unacceptable – New construction or development should generally not be undertaken.

Source: Office of Planning and Research, 2017 General Plan Guidelines, Appendix D, Noise Element Guidelines, 2017.

Source: City of Eastvale General Plan Noise Element, Table N-3.

3.4 CONSTRUCTION NOISE STANDARDS

The City of Eastvale has set restrictions to control noise impacts associated with the construction of the Project. According to the City of Eastvale Municipal Code Section 8.52.020, construction activities are limited to the hours of 6:00 a.m. to 6:00 p.m. June through September, and 7:00 a.m. to 6:00 p.m. October through May. (16) While the City of Eastvale establishes limits to the hours during which construction activity may take place, neither the City of Eastvale General Plan or Municipal Code establish numeric maximum acceptable construction source noise levels at potentially affected receivers, which would allow for a quantified determination of what CEQA constitutes a *substantial temporary or periodic noise increase*.

According to Caltrans guidance, construction noise impacts shall not exceed 86 dBA L_{max} at 50 feet from the job site activities between the hours of 9:00 p.m. to 6:00 a.m. (17) Equipment and operations are usually at or less than that level, except for blasting, pile drivers (impact or vibratory), hoe rams, pavement breakers for crack-and-seat operations, and other impact equipment. (2) The Caltrans guidance also suggests that detailed discussions of typical construction equipment noise levels are probably not necessary unless the project involves unusually sensitive receptors or nighttime work or if the project is controversial. (2) Since this limitation is only associated with nighttime activities and does not address the noise level at the point of concern, e.g., a residence, Caltrans construction criteria were similarly not considered as the appropriate threshold for environmental review.

Further research indicated U.S. Department of Transportation guidance for construction published by the Federal Transit Administration (FTA) is appropriate and based on well-documented studies of the effects of construction noise. According to the FTA *Transit Noise and Vibration Impact Assessment Manual,* local noise ordinances are typically not very useful in evaluating construction noise impacts.

They usually relate to nuisance and hours of allowed activity, and sometimes specify limits in terms of maximum levels, but are generally not practical for assessing the impact of a construction project. Project construction noise criteria should account for the existing noise environment, the absolute noise levels during construction activities, the duration of the construction, and the adjacent land use. (8 p. 172)

Due to the lack of standardized construction noise thresholds, the FTA provides guidelines that can be considered reasonable criteria for construction noise assessments. The FTA identifies two types of construction noise assessment criteria, general and detailed. For general construction noise assessments, the analysis is limited to the two noisiest pieces of equipment with an hourly daytime exterior noise level threshold for residential land use of 90 dBA $L_{eq(1hr)}$. (8 p. 179) However, for long-term construction projects that would expose sensitive receivers to noise for extended periods of time, the FTA considers a daytime 8-hour average exterior construction noise level of 80 dBA $L_{eq(8hr)}$. The absolute FTA thresholds are intended to account for reasonable expectations regarding construction noise during the daytime hours and are intended to protect human health.

Therefore, to evaluate whether the Project will generate potentially significant short-term noise levels at nearby noise sensitive residential receiver locations, a daytime exterior construction noise level of 80 dBA L_{eq} is used as a reasonable threshold to assess construction noise level impacts based on the FTA detailed analysis construction noise criteria with a nighttime exterior construction noise level of 70 dBA L_{eq}. (8 p. 179)

3.5 Construction Vibration Standards

Construction activity can result in varying degrees of ground-borne vibration, depending on the equipment and methods used, distance to the affected structures and soil type. Construction vibration is generally associated with pile driving and rock blasting. Other construction equipment such as air compressors, light trucks, hydraulic loaders, etc., generates little or no ground vibration. (8) To analyze vibration impacts originating from the operation and construction of the Project, vibration-generating activities are appropriately evaluated against standards established under the Municipal Code if such standards exist. However, the City of Eastvale does not identify specific construction vibration level limits. Therefore, for analysis purposes, the Caltrans Transportation and Construction Vibration Guidance Manual, Table 19, vibration damage is used in this noise study to assess potential temporary construction-related impacts at adjacent building locations. (8) The nearest noise-sensitive buildings adjacent to the Project site can best be described as "older residential structures" with a maximum acceptable continuous vibration threshold of 0.30 PPV (in/sec).

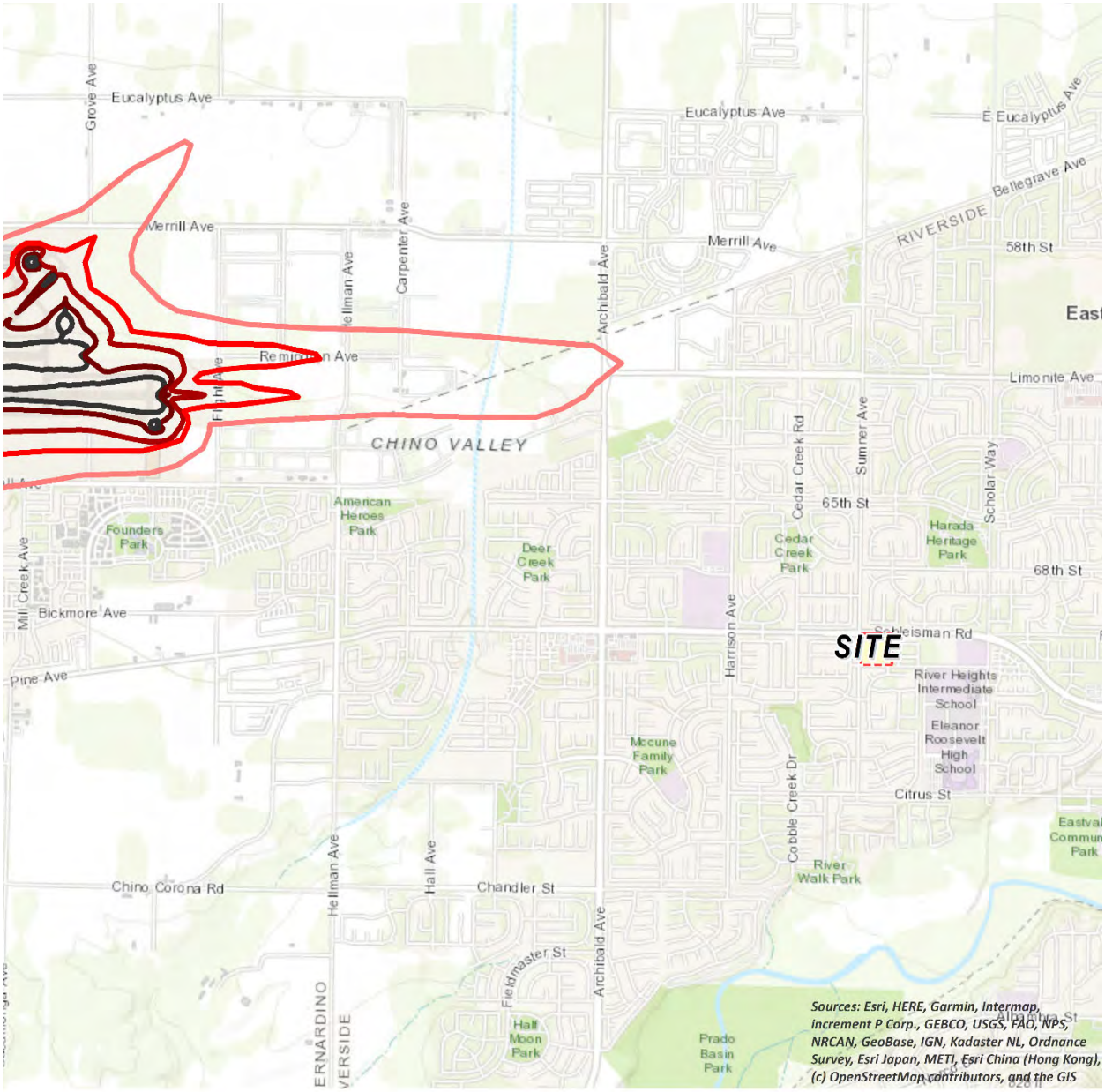
3.6 Chino Airport Overlay Zone

The Project site is located roughly 3 miles southeast of the Chino Airport. The *Chino Airport Master Plan*, (18) prepared by the County of San Bernardino, identifies noise compatibility policies based on the *Chino Airport Comprehensive Land Use Plan* (ACLUP). (19) The ACLUP establishes threshold for aircraft noise exposure for new developments. The *Chino Airport Master Plan* shows the noise level contour boundaries for Year 2009, 2015, and 2030 conditions. Based on Year 2030 conditions, the Project site will be located outside the 55 to 60 dBA CNEL noise contour boundaries of Chino Airport,

as shown on Exhibit 3-3. Table 2B of the ALUCP indicates that exterior noise levels below 55 dBA CNEL at residential uses, such as the Project, are considered *clearly acceptable.* (19)

Therefore, since the Project land use is considered *clearly acceptable* residential land use and standard construction will satisfy the interior noise level standard of 45 dBA CNEL, the impacts due to aircraft noise will be *less than significant*. No further analysis is required or included in this noise study for the airport-related noise levels.

EXHIBIT 3-3: CHINO AIRPORT LONG-TERM NOISE CONTOURS



Sources: Chino Airport Master Plan, Exhibit B4 and the Riverside County Airport Land Use Compatibility Plan, Map CH-3

4 SIGNIFICANCE CRITERIA

The following significance criteria are based on currently adopted guidance provided by Appendix G of the California Environmental Quality Act (CEQA) Guidelines. (1) For the purposes of this report, impacts would be potentially significant if the Project results in or causes:

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?

B. Generation of excessive ground-borne vibration or ground-borne noise levels?

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?

4.1 NOISE LEVEL INCREASES (THRESHOLD A)

Noise level increases resulting from the Project are evaluated based on the Appendix G CEQA Guidelines. Under CEQA, consideration must be given to the magnitude of the increase, the existing baseline ambient noise levels, and the location of receivers to determine if a noise increase represents a significant adverse environmental impact. This approach recognizes that there is no single noise increase that renders the noise impact significant. (20) This is primarily because of the wide variation in individual thresholds of annoyance and differing individual experiences with noise. Thus, an important way of determining a person's subjective reaction to a new noise is the comparison of it to the existing environment to which one has adapted—the so-called ambient environment.

4.1.1 Noise Sensitive Receivers (Substantial Permanent Noise Level Increase)

The Federal Interagency Committee on Noise (FICON) (21) developed guidance to be used for the assessment of project-generated increases in noise levels that consider the ambient noise level. The FICON recommendations are based on studies that relate aircraft noise levels to the percentage of persons highly annoyed by aircraft noise. Although the FICON recommendations were specifically developed to assess aircraft noise impacts, these recommendations are often used in environmental noise impact assessments involving the use of cumulative noise exposure metrics, such as the average-daily noise level (CNEL) and equivalent continuous noise level (Leq). In general, the more a new noise level exceeds the previously existing ambient noise level, the less acceptable the new noise level will typically be judged.

As previously stated, the approach used in this noise study recognizes that there is no single noise increase that renders a noise impact significant, based on a 2008 California Court of Appeal ruling on Gray v. County of Madera. (20) For example, if the ambient noise environment is quiet (<60 dBA) and the new noise source greatly increases the noise levels, an impact may occur if the noise criteria may be exceeded. Therefore, for this analysis, a readily perceptible 5 dBA or greater project-related noise level increase is considered a significant impact when the without project noise levels are below 60 dBA. Per the FICON, in areas where the without project noise levels range from 60 to 65 dBA, a 3 dBA barely perceptible noise level increase appears to be appropriate for most people. When the without project noise levels already exceed 65 dBA, any increase in community noise

louder than 1.5 dBA or greater is considered a significant impact if the noise criteria for a given land use is exceeded, since it likely contributes to an existing noise exposure exceedance.

The FICON guidance provides an established source of criteria to assess the impacts of substantial temporary or permanent increase in baseline ambient noise levels. Based on the FICON criteria, the amount to which a given noise level increase is considered acceptable is reduced when the without Project (baseline) noise levels are already shown to exceed certain land-use specific exterior noise level criteria. The specific levels are based on typical responses to noise level increases of 5 dBA or readily perceptible, 3 dBA or barely perceptible, and 1.5 dBA depending on the underlying without Project noise levels for noise-sensitive uses. These levels of increases and their perceived acceptance are consistent with guidance provided by both the Federal Highway Administration (4 p. 9) and Caltrans (22 p. 2_48).

4.1.3 Construction Noise (Substantial Temporary Noise Level Increase)

To control the noise-generating construction activities, the temporary noise level increases over the existing ambient conditions must be considered under CEQA Significance Threshold A. Although noise ordinances vary across jurisdictions, many cities and counties in California, including Los Angeles, San Diego, and San Francisco, set construction noise limits between 75 and 80 dBA L_{eq} and typically restrict construction activities to the daytime hours. In contrast, everyday noise regulations are more stringent because they apply to continuous, long-term noise sources that can significantly impact the quality of life. As a result, many jurisdictions establish daytime residential noise limits around 55 dBA L_{eq}. This suggests that a reasonable 20 dBA increase over the daytime noise limit can be tolerated without significant adverse effects. This is also illustrated in the adoption of many CEQA documents statewide that use an 80 dBA L_{eq} limit for assessing construction impacts while using everyday noise level limits of local noise ordinances in assessing on-site operational impacts.

Therefore, if the Project-related construction noise levels generate a temporary noise level increase over the existing daytime ambient noise levels more than 20 dBA L_{eq} then the Project construction noise increases will be considered a *significant* impact.

4.2 VIBRATION (THRESHOLD B)

As described in Section 3.5, the vibration impacts originating from the construction of the Project, vibration-generating activities are appropriately evaluated using standards established by the Caltrans *Transportation and Construction Vibration Guidance Manual*, Table 19. Caltrans' vibration thresholds for building damage are used in this noise study to assess potential operational and temporary construction-related impacts at adjacent building locations. A maximum acceptable continuous vibration threshold of 0.30 PPV (in/sec) is used to describe the nearest residential buildings adjacent to the Project site.

4.3 CEQA GUIDELINES NOT FURTHER ANALYZED (THRESHOLD C)

CEQA Noise Threshold C applies when there are nearby public and private airports and/or airstrips and focuses on land use compatibility of the Project to nearby airports and airstrips. The Project site is not located within two miles of an airport or airstrip. The closest major airport is the Chino Airport, located over 3 miles southeast of the Project site. As such, the Project site would not be exposed to excessive noise levels from airport operations, and therefore, impacts are considered less than

significant, and no further noise analysis is conducted in relation to Appendix G to the CEQA Guidelines, Noise Threshold C.

4.4 SIGNIFICANCE CRITERIA SUMMARY

Noise impacts shall be considered significant if any of the following occur as a direct result of the development. Table 4-1 shows the significance criteria summary matrix that includes the allowable criteria used to identify potentially significant incremental noise level increases.

TABLE 4-1: SIGNIFICANCE CRITERIA SUMMARY

Analysis	Receiving Land Use	Condition(s)	Significance Criteria	
			Daytime	Nighttime
Off-Site Traffic	Noise-Sensitive[1]	If ambient is < 60 dBA CNEL	≥ 5 dBA CNEL Project increase	
		If ambient is 60 - 65 dBA CNEL	≥ 3 dBA CNEL Project increase	
		If ambient is > 65 dBA CNEL	≥ 1.5 dBA CNEL Project increase	
On-Site	Noise Sensitive	Exterior Noise Level Criteria	See Exhibit 3-1	
		Interior Noise Level Standard[3]	45 dBA CNEL	
Operational	Noise-Sensitive	Residential Exterior Noise Level[4]	55 dBA Leq	45 dBA Leq
		If ambient is < 60 dBA Leq[1]	≥ 5 dBA Leq Project increase	
		If ambient is 60 - 65 dBA Leq[1]	≥ 3 dBA Leq Project increase	
		If ambient is > 65 dBA Leq[1]	≥ 1.5 dBA Leq Project increase	
Construction	Noise-Sensitive	Noise Level Threshold[5]	80 dBA L_{eq}	
		Exterior Noise Level Increase	20 dBA L_{eq}	
		Vibration Level Threshold[6]	0.30 PPV (in/sec)	

[1] FICON, 1992.
[2] City of Eastvale Land Use Compatibility Guidelines (Exhibit 3-1).
[3] California Code of Regulations, Title 24, Part 2, Volume 1, Chapter 12, Section 1206.4
[4] City of Eastvale Municipal Code Section 8.52.040
[5] Federal Transit Administration, Transit Noise and Vibration Impact Assessment Manual.
[6] Temporary construction noise increases that can be tolerated without significant adverse effects.
[7] Caltrans Transportation and Construction Vibration Manual, April 2020 Table 19
"Daytime" = 7:00 a.m. to 10:00 p.m.; "Nighttime" = 10:00 p.m. to 7:00 a.m.

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5 EXISTING NOISE LEVEL MEASUREMENTS

To assess the existing noise level environment, 24-hour noise level measurements were taken at four locations in the Project study area. The receiver locations were selected to describe and document the existing noise environment within the Project study area. Exhibit 5-1 provides the boundaries of the Project study area and the noise level measurement locations. To fully describe the existing noise conditions, long-term noise level measurements were collected by Urban Crossroads, Inc. on Tuesday, March 25, 2025. Appendix 5.1 includes study area photos.

5.1 MEASUREMENT PROCEDURE AND CRITERIA

To describe the existing noise environment, the hourly noise levels were measured during typical weekday conditions over a 24-hour period. By collecting individual hourly noise level measurements, it is possible to describe the equivalent daytime and nighttime hourly noise levels. The long-term noise readings were recorded using Piccolo Type 2 integrating sound level meter and dataloggers. The Piccolo sound level meters were calibrated using a Larson-Davis calibrator, Model CAL 150. All noise meters were programmed in "slow" mode to record noise levels in "A" weighted form. The sound level meters and microphones were equipped with a windscreen during all measurements. All noise level measurement equipment satisfies the American National Standards Institute (ANSI) standard specifications for sound level meters ANSI S1.4-2014/IEC 61672-1:2013. (23)

5.2 NOISE MEASUREMENT LOCATIONS

The long-term noise level measurements were positioned as close to the nearest sensitive receiver locations as possible to assess the existing equivalent hourly noise levels surrounding the Project site. Both Caltrans and the FTA recognize that it is not reasonable to collect noise level measurements that can fully represent every part of a private yard, patio, deck, or balcony normally used for human activity when estimating impacts for new development projects. This is demonstrated in the Caltrans general site location guidelines, which indicate that sites must be free of noise contamination by sources other than sources of interest. Avoid sites located near sources such as barking dogs, lawnmowers, pool pumps, and air conditioners unless it is the express intent of the analyst to measure these sources. (2) Further, FTA guidance states, that it is not necessary nor recommended that existing noise exposure be determined by measuring at every noise-sensitive location in the project area. Rather, the recommended approach is to characterize the noise environment for clusters of sites based on measurements or estimates at representative locations in the community. (8)

Based on recommendations of Caltrans and the FTA, it is not necessary to collect measurements at each individual building or residence, because each receiver measurement represents a group of buildings that share acoustical equivalence. (8) In other words, the area represented by the receiver shares similar shielding, terrain, and geometric relationship to the reference noise source. Receivers represent a location of noise-sensitive areas and are used to estimate the future noise level impacts.

EXHIBIT 5-1: NOISE MEASUREMENT LOCATIONS



Collecting noise level measurements at the nearby sensitive receiver locations allows for a comparison of the before and after Project noise levels and is necessary to assess potential noise increase due to the Project's contribution to the ambient noise levels. This approach is necessary to calculate the temporary or permanent increase in ambient noise levels as required by the CEQA Guidelines Environmental Checklist.

5.3 NOISE MEASUREMENT RESULTS

The noise measurements presented below focus on the equivalent or the hourly energy average sound levels (Leq) to describe the existing ambient conditions. Table 5-1 provides the (energy average) noise levels used to describe the hourly daytime (7:00 a.m. to 10:00 p.m.) and nighttime (10:00 p.m. to 7:00 a.m.) noise levels at each noise level measurement location. The equivalent sound level (L_{eq}) represents a steady-state sound level containing the same total energy as a time-varying signal over a given sample period. The daytime and nighttime equivalent noise levels represent the average of all hourly noise levels observed during these time periods, expressed as a single number.

TABLE 5-1: AMBIENT NOISE LEVEL MEASUREMENTS

Location[1]	Description	Energy Average Noise Level (dBA L_{eq})[2]		CNEL
		Daytime	Nighttime	
L1	Located north of the site near the residence at 13355 Bashkir St	62.9	54.3	64.4
L2	Located west of the site near the residence at 7068 Dove Valley Way	64.3	56.9	66.0
L3	Located south of the site near the residence at 7123 Cottage Grove Dr	61.5	52.5	62.5
L4	Located south of the site near the residence at 3301 Salvia Rd.	56.3	46.0	56.7

[1] See Exhibit 5-A for the noise level measurement locations.
[2] Energy (logarithmic) average levels. The long-term 24-hour measurement worksheets are included in Appendix 5.2. "Daytime" = 7:00 a.m. to 10:00 p.m.; "Nighttime" = 10:00 p.m. to 7:00 a.m.

Table 5-1 provides the equivalent noise levels used to describe the daytime and nighttime ambient conditions for each of the measurements. Appendix 5.2 provides summary worksheets of the noise levels for each hour as well as the minimum, maximum, L1, L2, L5, L8, L25, L50, L90, L95, and L99 percentile noise levels observed during the daytime and nighttime periods.

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6 METHODS AND PROCEDURES

The following section outlines the methods and procedures used to model and analyze the future traffic noise environment.

6.1 FHWA TRAFFIC NOISE PREDICTION MODEL

The estimated roadway noise impacts from vehicular traffic were calculated using a computer program that replicates the Federal Highway Administration (FHWA) Traffic Noise Prediction Model - FHWA-RD-77-108. (24) The FHWA Model arrives at a predicted noise level through a series of adjustments to the Reference Energy Mean Emission Level (REMEL). In California, the national REMELs are substituted with the California Vehicle Noise (Calveno) Emission Levels. (25) Adjustments are then made to the REMEL to account for: the roadway classification (e.g., collector, secondary, major or arterial), the roadway active width (i.e., the distance between the center of the outermost travel lanes on each side of the roadway), the total average daily traffic (ADT), the travel speed, the percentages of automobiles, medium trucks, and heavy trucks in the traffic volume, the roadway grade, the angle of view (e.g., whether the roadway view is blocked), the site conditions ("hard" or "soft" relates to the absorption of the ground, pavement, or landscaping), and the percentage of total ADT which flows each hour throughout a 24-hour period.

6.2 ON-SITE TRAFFIC NOISE PREDICTION MODEL INPUTS

The on-site roadway parameters, including the average daily traffic (ADT) volumes used for this study, are presented in Table 4-1. Based on the City of Eastvale General Plan, Draft EIR, Appendix D, Table 4, Schleisman Road is classified as a 6-lane Urban Arterial, and Sumner Avenue is classified as a 2-lane Major. (26) The traffic volumes shown in Table 4-1 reflect future long-range traffic conditions needed to assess the future on-site traffic noise environment and to identify potential mitigation measures (if any) that address the worst-case future conditions. For the purposes of this analysis, soft site conditions were used to analyze the on-site traffic noise impacts for the Project study area. Soft site conditions were used to analyze the traffic noise impacts within the Project study area, which account for the sound propagation loss over natural surfaces such as normal earth and ground vegetation. Research conducted by Caltrans shows that the use of soft site conditions is appropriate for the application of the FHWA traffic noise prediction model used in this analysis. (27)

TABLE 6-1: ON-SITE ROADWAY PARAMETERS

Roadway	Lanes	Classification[1]	Roadway Capacity[2]	Design Speed (MPH)[3]	Site Conditions
Schleisman Rd.	6	Urban Arterial	33,950	45	Soft
Sumner Ave.	2	Major	21,490	45	Soft

[1] Source: City of Eastvale General Plan, Mobility and Circulation Element, Figure MC-2
[2] Source: City of Eastvale General Plan, Draft EIR, Appendix D, Table 4
[3] Source: Posted speed limits.

Table 6-2 presents the time-of-day vehicle splits by vehicle type, and the total traffic flow distributions (vehicle mixes) used for this analysis. The vehicle mix provides the hourly distribution

percentages of automobiles, medium trucks, and heavy trucks for input into the FHWA Model based on roadway types.

TABLE 6-2: TIME OF DAY VEHICLE SPLITS

Time of Day	Vehicle Mix[1]			Time of Day Split[1]
	Autos[2]	Medium Trucks[3]	Heavy Trucks[4]	
Daytime	75.50%	1.56%	0.64%	77.70%
Evening	12.57%	0.09%	0.02%	12.68%
Nighttime	9.35%	0.19%	0.08%	9.62%
Daily	97.42%	1.84%	0.74%	100.00%

[1] Source: Typical Southern California Mix
[2] All vehicles with two axles and four wheels designed primarily for transportation of nine or fewer passengers (automobiles) or transportation of cargo (light trucks).
[3] All vehicles with two axles and six wheels designed for transportation of cargo.
[4] All vehicles with three or more axles designed for the transportation of cargo.

To predict the future noise environment at the Project site, coordinate information was collected to identify the noise transmission path between the noise source and receiver. The coordinate information is based on the Project site plan and its relationship to the adjacent roadways as shown in Appendix 6.1. The site plan is used to identify the relationship between the roadway centerline elevation, the pad elevation, the centerline distance to potential noise barriers, and the building façade. The backyard locations use a receiver height of five feet above the pad elevation, located ten feet away from potential barrier locations. First-floor receivers are similarly modeled 5 feet above the pad elevation. Second-floor receivers are modeled at a receiver height of 14 feet above pad elevation. Third-floor receivers were located at 23 feet above pad elevation. All first-, second-, and third-floor receivers were located at the building façade.

7 ON-SITE TRAFFIC NOISE IMPACTS

An on-site exterior noise impact analysis has been completed to determine the traffic noise exposure and to identify potentially necessary noise abatement measures for the Project. It is expected that the primary source of noise impacts to the Project site will be traffic noise from Schleisman Road, and Sumner Avenue. The Project will also experience some background traffic noise impacts from other local roads; however, due to low traffic volume/speeds, traffic noise from these roads will not make a significant contribution to the noise environment.

7.1 ON-SITE EXTERIOR NOISE ANALYSIS

Using the FHWA traffic noise prediction model and the parameters outlined in Tables 6-1 and 6-2, the expected future exterior noise levels for the Project were calculated. As shown in Table 7-1, the unabated exterior noise levels are estimated to range from 68.1 to 68.9 dBA CNEL in outdoor living spaces (e.g., patios and balconies). The future long-range exterior traffic noise analysis calculations are included in Appendix 7.1.

Based on City of Eastvale *Land Use Compatibility for Community Noise Exposure* shown at Exhibit 3- 1, the multi-family land uses are considered as *conditionally acceptable* with unmitigated exterior noise levels of less than 70 dBA CNEL. For *conditionally acceptable* exterior noise levels, *new construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made and needed noise insulation features included in the design. Conventional construction, but with closed windows and fresh air supply systems or air conditioning will normally suffice.*

TABLE 7-1: FUTURE EXTERIOR NOISE LEVELS

Building	Roadway	Unabated Exterior Noise Level (dBA CNEL)[1]
Building 3-7	Schleisman Rd.	68.2
Building 8	Schleisman Rd.	68.9
Building 1, 2	Sumner Ave.	68.2
Building 21, 22	Sumner Ave.	68.1

[1] Outdoor environment limited to the private patios and balconies of the multi-family

7.2 ON-SITE INTERIOR NOISE ANALYSIS

To verify that the interior noise levels will comply with the City of Eastvale 45 dBA CNEL interior noise standard, future exterior noise levels were calculated at the first-, second-, and third-floor building façade locations. Based on the site plans provided, the Project will provide air conditioning units, therefore a "windows closed" condition was assumed for the purposes of this analysis.

7.2.1 Noise Reduction Methodology

The interior noise level is the difference between the predicted exterior noise level at the building façade and the noise reduction of the structure. Typical building construction will provide a noise reduction of approximately 12 dBA with "windows open" and a minimum 25 dBA noise reduction

with "windows closed." However, sound leaks, cracks and openings within the window assembly can greatly diminish its effectiveness in reducing noise. Several methods are used to improve interior noise reduction, including (1) weather-stripped solid core exterior doors; (2) upgraded dual-glazed windows; (3) mechanical ventilation/air conditioning; and (4) exterior wall/roof assembles free of cutouts or openings.

7.2.2 Interior Noise Reduction Calculations

The noise reduction characteristics of a building are determined by combining the transmission loss of each of the building components that make up the building. Each unique component has a transmission loss value. For residential homes, the critical building components include the roof, walls, windows, doors, and attic configuration and insulation characteristics. The total noise reduction is dependent upon the transmission loss of each element and the surface area of that element in relation to the total surface area of the room. To account for the acoustic energy absorbed within a room, the absorption coefficients for individual surface areas such as drywall and carpet are used to calculate the interior room effects. The calculated building noise reduction includes both the transmission loss associated with the exterior wall assembly and the room absorption characteristics.

Noise reduction calculations are based on a sample of the interior rooms detailed in the architectural floor plans for the Project. The floor plans for the Project were used to estimate the interior noise levels with windows in the closed position. The calculations were completed assuming windows with an STC rating of 27. As shown in Table 7-2, the calculated interior noise reduction will range from 27.2 to 34.1 dBA. The interior noise reduction calculations are included in Appendix 7.2 for each floor plan.

TABLE 7-2: NOISE REDUCTION CALCULATIONS (CNEL)

Floor Plan	Sample Rooms[1]	Calculated Floor Plan Noise Reduction[2]
Plan1	Living Room	28.1
	Bedroom 1	29.0
Plan 2	Bedroom 3	28.8
	Living Room	27.2
	Bedroom 1	27.2
Plan 3	Bedroom 4	32.5
	Living Room	33.7
	Bedroom 1	33.1
Plan 4	Bedroom 4	32.5
	Living Room	34.1
	Bedroom 1	32.6
Minimum Reduction		27.2

[1] Sample is based on the floor plans of lots adjacent to the roadways and interior habitable room(s) with a high number of exterior walls and openings (windows, doors, etc.).
[2] Interior noise reduction calculations included in Appendix 7.2.

7.2.1 Interior Noise Level Assessment

Tables 7-3 to 7-5 show the estimated interior noise levels using the minimum calculated noise reduction shown in Table 7-2. Tables 7-3 to 7-5 show that the future noise levels at the first-, second and third-floor building façade locations are expected to range from 67.7 to 68.9 dBA CNEL. The interior noise level analysis shows that the interior noise levels will range from 40.5 to 41.7 dBA CNEL with standard construction and windows in the closed position.

The interior noise level assessment demonstrates that for all units, standard construction, with windows in the closed position, will satisfy the City of Eastvale 45 dBA CNEL interior noise standard and no noise abatement measures are required.

TABLE 7-3: FIRST FLOOR INTERIOR NOISE IMPACTS

Building	Roadway	Noise Level at Façade	Required Interior Noise Reduction[1]	Minimum Noise Reduction[2]	Upgraded Windows[3]	Interior Noise Level[4]
Building 3-7	Schleisman Rd.	68.2	23.2	27.2	No	41.0
Building 8	Schleisman Rd.	68.9	23.9	27.2	No	41.7
Building 1, 2	Sumner Ave.	68.2	23.2	27.2	No	41.0
Building 21, 22	Sumner Ave.	68.1	23.1	27.2	No	40.9

[1] Noise level reduction required to satisfy the 45 dBA CNEL interior noise standards.
[2] Estimate exterior to interior noise level reduction with standard building construction with a 25 dBA CNEL reduction and "windows closed".
[3] Does the required interior noise reduction trigger upgraded windows with a minimum STC rating of greater than 27?
[4] Estimated interior noise level with standard building construction with a windows closed condition and an STC rating of 27 for all windows.

TABLE 7-4: SECOND FLOOR INTERIOR NOISE IMPACTS

Building	Roadway	Noise Level at Façade	Required Interior Noise Reduction[1]	Minimum Noise Reduction[2]	Upgraded Windows[3]	Interior Noise Level[4]
Building 3-7	Schleisman Rd.	68.1	23.1	27.2	No	40.9
Building 8	Schleisman Rd.	68.8	23.8	27.2	No	41.6
Building 1, 2	Sumner Ave.	68.0	23.0	27.2	No	40.8
Building 21, 22	Sumner Ave.	67.9	22.9	27.2	No	40.7

[1] Noise level reduction required to satisfy the 45 dBA CNEL interior noise standards.
[2] Estimate exterior to interior noise level reduction with standard building construction with a 25 dBA CNEL reduction and "windows closed".
[3] Does the required interior noise reduction trigger upgraded windows with a minimum STC rating of greater than 27?
[4] Estimated interior noise level with standard building construction with a windows closed condition and an STC rating of 27 for all windows.

TABLE 7-5: THIRD FLOOR INTERIOR NOISE IMPACTS

Building	Roadway	Noise Level at Façade	Required Interior Noise Reduction[1]	Minimum Noise Reduction[2]	Upgraded Windows[3]	Interior Noise Level[4]
Building 3-7	Schleisman Rd.	68.0	23.0	27.2	No	40.8
Building 8	Schleisman Rd.	68.6	23.6	27.2	No	41.4
Building 1, 2	Sumner Ave.	67.8	22.8	27.2	No	40.6
Building 21, 22	Sumner Ave.	67.7	22.7	27.2	No	40.5

[1] Noise level reduction required to satisfy the 45 dBA CNEL interior noise standards.
[2] Estimate exterior to interior noise level reduction with standard building construction with a 25 dBA CNEL reduction and "windows closed".
[3] Does the required interior noise reduction trigger upgraded windows with a minimum STC rating of greater than 27?
[4] Estimated interior noise level with standard building construction with a windows closed condition and an STC rating of 27 for all windows.

8 OFF-SITE TRANSPORTATION NOISE IMPACTS

The Project would result in a small increase in regional and local traffic volumes. The Project is anticipated to generate a maximum of 63 AM and 55 PM peak hour trips per day (28), which would represent an incremental increase to the existing 682 AM and 470 PM peak hour volumes on Sumner Avenue and 728 AM and 676 PM peak hour volumes on Schleisman Road. (28) These small relative increases in existing traffic volumes would represent a less than 1 dBA increase in traffic noise levels. Therefore, the off-site traffic noise levels generated by the Project are considered *less than significant*.

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9 RECEIVER LOCATIONS

To assess the potential for long-term operational and short-term construction noise impacts, the following receiver locations, as shown in Exhibit 9-1, were identified as representative locations for analysis. The selection of receiver locations is based on FHWA guidelines and is consistent with additional guidance provided by Caltrans and the FTA, as previously described in Section 5.2. Sensitive receivers are generally defined as locations where people reside or where the presence of unwanted sound could otherwise adversely affect the use of the land. Noise-sensitive land uses are generally considered to include schools, hospitals, single-family dwellings, mobile home parks, churches, libraries, and recreation areas. Moderately noise-sensitive land uses typically include multi-family dwellings, hotels, motels, dormitories, out-patient clinics, cemeteries, golf courses, country clubs, athletic/tennis clubs, and equestrian clubs. Land uses that are considered relatively insensitive to noise include business, commercial, and professional developments. Land uses that are typically not affected by noise include: industrial, manufacturing, utilities, agriculture, undeveloped land, parking lots, warehousing, liquid and solid waste facilities, salvage yards, and transit terminals.

To describe the potential off-site Project noise levels, eleven receiver locations in the vicinity of the Project site were identified. Other sensitive land uses in the Project study area that are located at greater distances than those identified in this noise study will experience lower noise levels than those presented in this report due to the additional attenuation from distance and the shielding of intervening structures. Distance is measured in a straight line from the Project boundary to each receiver location.

R1: Location R1 represents the existing residence at 13359 Bashkir Street, approximately 107 feet north of the Project site. Receiver R1 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L1, to describe the existing ambient noise environment.

R2: Location R2 represents the existing residence at 7035 Gale Lane, approximately 15 feet east of the Project site. Receiver R2 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L2, to describe the existing ambient noise environment.

R3: Location R3 represents the existing residence at 7059 Gale Lane, approximately 19 feet east of the Project site. Receiver R3 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L2, to describe the existing ambient noise environment.

R4: Location R4 represents the existing residence at 7095 Gale Lane, approximately 18 feet east of the Project site. Receiver R4 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L2, to describe the existing ambient noise environment.

R5: Location R5 represents the existing residence at 7123 Cottage Grove Drive, approximately 82 feet south of the Project site. Receiver R5 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L3, to describe the existing ambient noise environment.

R6: Location R6 represents the existing residence at 13386 Glen Echo Court, approximately 67 feet south of the Project site Receiver R6 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L3, to describe the existing ambient noise environment.

R7: Location R7 represents the existing residence at 7086 Dove Valley Way, approximately 95 feet west of the Project site. Receiver R7 is placed in the private outdoor living area (backyard) facing the Project site. A

24-hour noise measurement was taken near this location, L4, to describe the existing ambient noise environment.

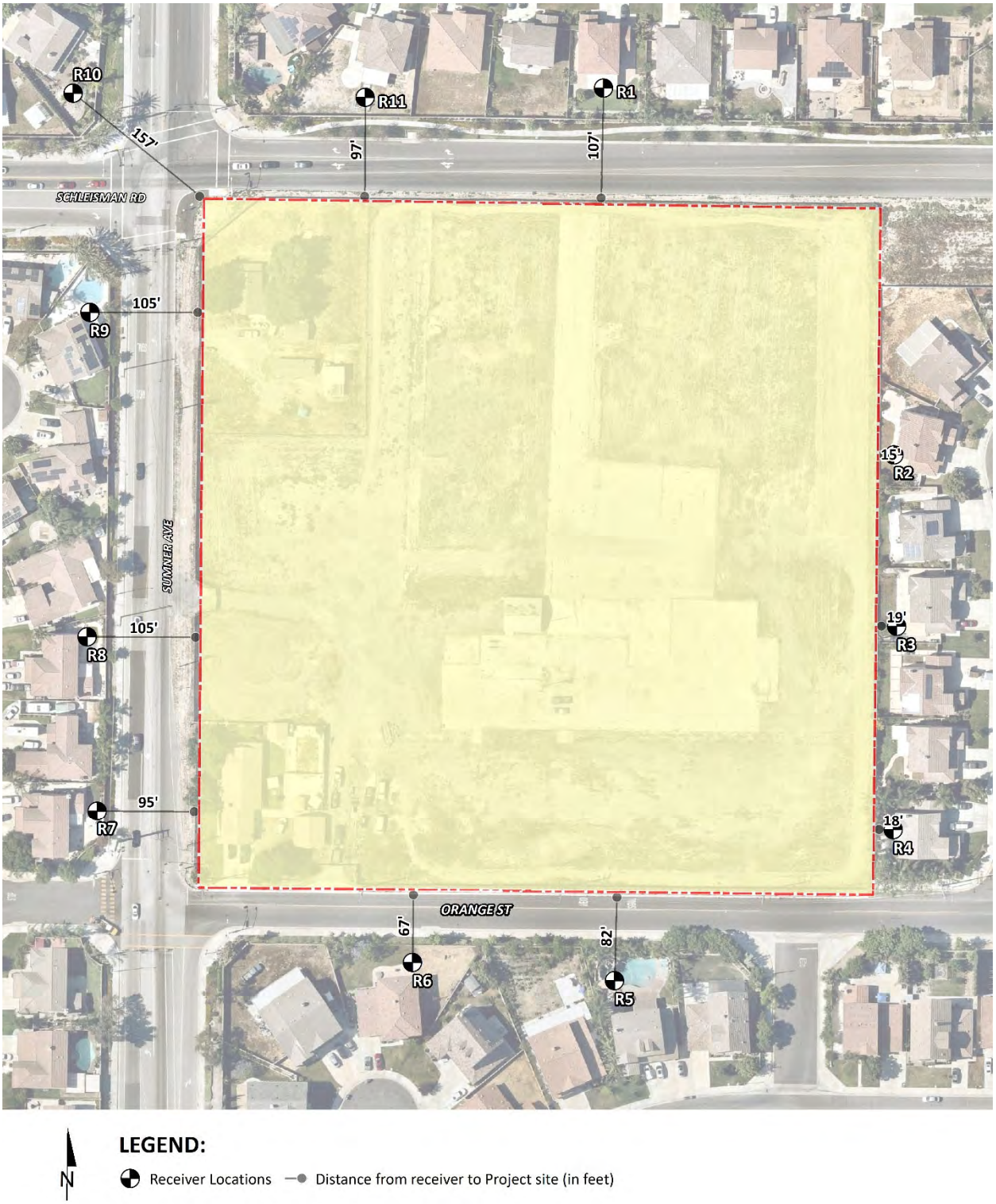
R8: Location R8 represents the existing residence at 7074 Dove Valley Way, approximately 105 feet west of the Project site. Receiver R8 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L4, to describe the existing ambient noise environment.

R9: Location R1 represents the existing residence at 13413 Pelican Peak Court, approximately 105 feet west of the Project site. Receiver R1 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L4, to describe the existing ambient noise environment.

R10: Location R10 represents the existing residence at 6990 Winterberry Way, approximately 157 feet northwest of the Project site Receiver R10 is placed in the private outdoor living area (backyard) facing the Project site. A 24-hour noise measurement was taken near this location, L4, to describe the existing ambient noise environment.

R11: Location R11 represents the existing residence at 13389 Bashkir Street, approximately 97 feet north of the Project site. Receiver R11 is placed in the private outdoor living area (backyard) facing the Project site . A 24-hour noise measurement was taken near this location, L1, to describe the existing ambient noise environment.

EXHIBIT 9-1: RECEIVER LOCATIONS



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10 OPERATIONAL NOISE ANALYSIS

The Project is considered a noise-sensitive receiving land use and is not expected to include any specific type of operational noise levels beyond those typically associated with residential land uses in the Project study area. Additionally, Section 21085 of the California Public Resources Code states in part, "...for residential projects, the effects of noise generated by project occupants and their guests on human beings is not a significant effect on the environment." (29) A review of the legislative record indicates the author's intent for Section 21085 was to "remove the potential for litigants to challenge residential development based on the speculation that the new residents will create unwanted noises. It would also reestablish the existing precedent that minor and intermittent noise nuisances, such as from unamplified human voices, be addressed through local nuisance ordinances and not via CEQA. Consequently, activities solely associated with occupants and guests, such as the swimming pool/spa activities, dog park activities, and outdoor activities in common spaces, are not considered part of this operational noise analysis for CEQA." Based on the intent of the author of Section 21085, the operational noise sources are limited to the mechanical and non-verbal noise sources that occur onsite, including ground mounted air conditioning units, and parking lot vehicle movements.

Therefore, this section analyzes the potential operational noise impacts at the nearby receiver locations, identified in Section 8, resulting from the operation of ground mounted air conditioning units, and parking lot vehicle movements. Exhibit 10-1 identifies the noise source locations used to assess the equivalent L_{eq} operational noise levels.

10.1 OPERATIONAL NOISE SOURCES

This operational noise analysis is intended to describe noise level impacts associated with the expected typical residential activities at the Project site. The operational noise sources are evaluated against standards established in the City of Eastvale Municipal Code, Section 8.52.040, and the relative increase in noise levels at each existing sensitive receiver.

10.2 REFERENCE NOISE LEVELS

To estimate the Project operational noise impacts, reference noise level measurements were collected from similar types of activities or equipment to represent the noise levels expected with the development of the Project. This section provides a detailed description of the reference noise level measurements shown in Table 10-1, used to estimate the Project operational noise impacts.

10.2.1 Ground-Mounted Air Conditioning Units

To assess the noise levels created by the air conditioning units, reference noise levels were taken from equipment specifications for a 2- to 5-ton residential packaged air conditioning unit (Carrier 50VR-A). The manufacturer's specifications are included in Appendix 10.1. At a uniform reference distance of 50 feet, the loudest unit would generate a reference noise level of 44.4 dBA L_{eq}. The air conditioning units were modeled 3 feet above the ground level, operating 45 minutes per hour during the daytime and 30 minutes at nighttime, which represents the typical maximum operating time for properly sized AC systems.

EXHIBIT 10-1: OPERATIONAL NOISE SOURCE LOCATIONS



TABLE 10-1: REFERENCE NOISE LEVEL MEASUREMENTS

Reference Noise Source	Noise Source Height (Feet)	Min./ Hour[1]		Reference Noise Level (dBA L_{eq}) @ 50 Feet	Sound Power Level (dBA)[2]
		Day	Night		
Ground-Mounted Air Conditioning Units	3'	45	30	44.4	76.0
Parking Lot Vehicle Movements	5'	60	60	52.1	81.1

[1] Anticipated duration (minutes within the hour) of noise activity during typical hourly conditions expected at the Project site. "Daytime" = 7:00 a.m. - 10:00 p.m.; "Nighttime" = 10:00 p.m. - 7:00 a.m.

[2] Sound power level represents the total amount of acoustical energy (noise level) produced by a sound source independent of distance or surroundings. Sound power levels calculated using the CadnaA noise model at the reference distance to the noise source. Numbers may vary due to size differences between point and area noise sources.

10.2.2 Parking Lot Vehicle Movements

To describe the on-site parking lot activity, a long-term reference noise level measurement was collected in the center of activity within the staff parking lot of a similarly sized townhouse community. At 50 feet from the center of activity, a 12-space parking area produced a reference noise level of 52.1 dBA L_{eq}, at a uniform distance of 50 feet. As a conservative worst case, the parking activities are expected to take place during the full hour (60 minutes) throughout the daytime and evening hours. The parking lot noise levels are mainly due to cars pulling in and out of parking spaces in combination with car doors opening and closing.

10.3 CADNAA NOISE PREDICTION MODEL

To fully describe the exterior operational noise levels from the Project, Urban Crossroads, Inc. developed a noise prediction model using the CadnaA (Computer Aided Noise Abatement) computer program. CadnaA can analyze multiple types of noise sources using the spatially accurate Project site plan, georeferenced Nearmap aerial imagery, topography, buildings, and barriers in its calculations to predict outdoor noise levels. Topography was developed from NearMap LiDAR data. (30) Using the ISO 9613-2 protocol, CadnaA will calculate the distance from each noise source to the noise receiver locations, using the ground absorption, distance, and barrier/building attenuation inputs to provide a summary of noise level at each receiver and the partial noise level contributions by noise source. Consistent with the ISO 9613-2 protocol, the CadnaA noise prediction model relies on the reference sound power level (Lw) to describe individual noise sources. While sound pressure levels (e.g., L_{eq}) quantify in decibels the intensity of given sound sources at a reference distance, sound power levels (L_w) are connected to the sound source and are independent of distance.

Sound pressure levels vary substantially with distance from the source and diminish because of intervening obstacles and barriers, air absorption, wind, and other factors. Sound power is the acoustical energy emitted by the sound source and is an absolute value that is not affected by the environment. The operational noise level calculations provided in this noise study account for the distance attenuation provided due to geometric spreading, when sound from a localized stationary source (i.e., a point source) propagates uniformly outward in a spherical pattern. A default ground attenuation factor of 0.5 was used in the noise analysis to account for mixed ground representing a combination of hard and soft surfaces. This approach ensures a reasonable approximation in environments where both hard and soft surfaces exist, aligning with typical real-world conditions.

Appendix 10.2 includes the detailed noise model inputs used to estimate the Project operational noise levels presented in this section.

10.4 PROJECT OPERATIONAL NOISE LEVELS

Using the reference noise levels to represent the Project operations that include ground mounted air conditioning units, and parking lot vehicle movements, Urban Crossroads, Inc. calculated the operational source noise levels that are expected to be generated at the Project site and the Project-related noise level increases that would be experienced at each of the sensitive receiver locations. Table 9-2 shows the Project operational noise levels during the daytime hours of 7:00 a.m. to 10:00 p.m. The daytime hourly noise levels at the off-site receiver locations are expected to range from 35.5 to 47.0 dBA L_{eq}.

Table 10-3 shows the Project operational noise levels during the nighttime hours from 10:00 p.m. to 7:00 a.m. The nighttime hourly noise levels at the existing off-site receiver locations are expected to range from 33.4 to 44.4 dBA L_{eq}. The differences between the daytime and nighttime noise levels are largely related to the estimated duration of noise activity as outlined in Table 10-1. Appendix 10.2 includes the detailed noise model inputs.

TABLE 10-2: DAYTIME PROJECT OPERATIONAL NOISE LEVELS

Noise Source[1]	Operational Noise Levels by Receiver Location (dBA Leq)										
	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11
Ground-Mounted Air Conditioning Units	37.5	45.7	46.8	46.6	40.1	40.8	37.7	37.6	36.9	34.5	37.2
Parking Lot Vehicle Movements	30.4	33.0	32.9	32.9	33.5	32.3	30.0	30.9	29.7	28.4	29.5
Total (All Noise Sources)	38.3	45.9	47.0	46.8	41.0	41.4	38.4	38.4	37.7	35.5	37.9

[1] See Exhibit 10-1 for the noise source locations. CadnaA noise model calculations are included in Appendix 10.2.

TABLE 10-3: NIGHTTIME PROJECT OPERATIONAL NOISE LEVELS

Noise Source[1]	Operational Noise Levels by Receiver Location (dBA Leq)										
	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11
Ground-Mounted Air Conditioning Units	34.8	42.9	44.1	43.9	37.3	38.1	35.0	34.9	34.2	31.7	34.4
Parking Lot Vehicle Movements	30.4	33.0	32.9	32.9	33.5	32.3	30.0	30.9	29.7	28.4	29.5
Total (All Noise Sources)	36.1	43.3	44.4	44.2	38.8	39.1	36.2	36.4	35.5	33.4	35.6

[1] See Exhibit 10-1 for the noise source locations. CadnaA noise model calculations are included in Appendix 10.2.

10.5 PROJECT OPERATIONAL NOISE LEVEL COMPLIANCE

To demonstrate compliance with local noise regulations, the unmitigated Project-only operational noise levels are evaluated against exterior noise level thresholds at nearby receiver locations. Table 10-4 shows that the mitigated operational noise levels associated with the Project will not exceed the daytime and nighttime exterior noise level standards at the existing nearby noise-sensitive receiver locations. Therefore, the mitigated operational noise impacts are considered *less than significant* at the nearby noise-sensitive receiver locations.

TABLE 10-4: OPERATIONAL NOISE LEVEL COMPLIANCE

Receiver Location[1]	Project Operational Noise Levels (dBA Leq)[2]		Noise Level Standards (dBA Leq)[3]		Noise Level Standards Exceeded?[4]	
	Daytime	Nighttime	Daytime	Nighttime	Daytime	Nighttime
R1	38.3	36.1	50.0	45.0	No	No
R2	45.9	43.3	50.0	45.0	No	No
R3	47.0	44.4	50.0	45.0	No	No
R4	46.8	44.2	50.0	45.0	No	No
R5	41.0	38.8	50.0	45.0	No	No
R6	41.4	39.1	50.0	45.0	No	No
R7	38.4	36.2	50.0	45.0	No	No
R8	38.4	36.4	50.0	45.0	No	No
R9	37.7	35.5	50.0	45.0	No	No
R10	35.5	33.4	50.0	45.0	No	No
R11	37.9	35.6	50.0	45.0	No	No

[1] See Exhibit 9-1 for the receiver locations.
[2] Proposed Project unmitigated operational noise levels as shown in Tables 10-2 and 10-3.
[3] Exterior noise level standards, as shown in Table 4-1.
[4] Do the estimated Project operational noise source activities exceed the noise level standards?
"Daytime" = 7:00 a.m. - 10:00 p.m.; "Nighttime" = 10:00 p.m. - 7:00 a.m.

10.6 PROJECT OPERATIONAL NOISE LEVEL INCREASES

To describe the Project operational noise level increases, the Project operational noise levels are combined with the existing ambient noise levels measurements for the nearby receiver locations that may be potentially impacted by Project operational noise sources. Since the units used to measure noise, decibels (dB), are logarithmic units, the Project-operational and existing ambient noise levels cannot be combined using standard arithmetic equations. (2) Instead, they must be logarithmically added using the following base equation:

$$SPL_{Total} = 10\log_{10}[10^{SPL1/10} + 10^{SPL2/10} + \ldots 10^{SPLn/10}]$$

where "SPL1," "SPL2," etc. are equal to the sound pressure levels being combined, or in this case, the Project-operational and existing ambient noise levels. The difference between the combined Project and ambient noise levels describes the Project noise level increases to the existing ambient noise environment. Noise levels that would be experienced at receiver locations when Project-

source noise is added to the daytime and nighttime ambient conditions are presented in Tables 10-5 and 10-6, respectively. As indicated in Table 10-5, the Project will generate daytime operational noise increases ranging from less than 0.1 to 0.1 dBA L_{eq} at the nearest receiver locations. Table 10-6 shows that the Project will generate nighttime operational noise level increases ranging from 0.1 to 0.4 dBA L_{eq} at the nearest receiver locations. Project-related operational noise level increases would not exceed the operational noise level increase significance criteria presented in Table 4-1. Therefore, the Project-related operational noise level increases at the sensitive receiver locations will be *less than significant.*

TABLE 10-5: DAYTIME PROJECT OPERATIONAL NOISE LEVEL INCREASES

Receiver Location[1]	Total Project Operational Noise Level[2]	Measurement Location[3]	Reference Ambient Noise Levels[4]	Combined Project and Ambient[5]	Project Increase[6]	Increase Criteria[7]	Increase Criteria Exceeded?
R1	38.3	L1	62.9	62.9	0.0	3.0	No
R2	45.9	L2	64.3	64.4	0.1	3.0	No
R3	47.0	L2	64.3	64.4	0.1	3.0	No
R4	46.8	L2	64.3	64.4	0.1	3.0	No
R5	41.0	L3	61.5	61.5	0.0	3.0	No
R6	41.4	L3	61.5	61.5	0.0	3.0	No
R7	38.4	L4	56.3	56.4	0.1	5.0	No
R8	38.4	L4	56.3	56.4	0.1	5.0	No
R9	37.7	L4	56.3	56.4	0.1	5.0	No
R10	35.5	L4	56.3	56.3	0.0	5.0	No
R11	37.9	L1	62.9	62.9	0.0	3.0	No

[1] See Exhibit 9-1 for the receiver locations.
[2] Total Project daytime operational noise levels as shown in Table 10-2.
3 Re[f]erence noise level measurement locations as shown in Exhibit 1-A.
4 Observe[d] daytime ambient noise levels as shown in Table 5-1.
5 Represents the c[o]mbined ambient conditions plus the Project activities.
6 The noise level [i]ncrease expected with the addition of the proposed Project activities.
7 Significance inc[r]ease criteria as shown in Table 4-1.

TABLE 10-6: NIGHTTIME OPERATIONAL NOISE LEVEL INCREASES

Receiver Location[1]	Total Project Operational Noise Level[2]	Measurement Location[3]	Reference Ambient Noise Levels[4]	Combined Project and Ambient[5]	Project Increase[6]	Increase Criteria[7]	Increase Criteria Exceeded?
R1	36.1	L1	54.3	54.4	0.1	5.0	No
R2	43.3	L2	56.9	57.1	0.2	5.0	No
R3	44.4	L2	56.9	57.1	0.2	5.0	No
R4	44.2	L2	56.9	57.1	0.2	5.0	No
R5	38.8	L3	52.5	52.7	0.2	5.0	No
R6	39.1	L3	52.5	52.7	0.2	5.0	No
R7	36.2	L4	46.0	46.4	0.4	5.0	No
R8	36.4	L4	46.0	46.4	0.4	5.0	No
R9	35.5	L4	46.0	46.4	0.4	5.0	No
R10	33.4	L4	46.0	46.2	0.2	5.0	No
R11	35.6	L1	54.3	54.4	0.1	5.0	No

[1] See Exhibit 9-A for the receiver locations.
[2] Total Project nighttime operational noise levels as shown in Table 10-3.
[3] Reference noise level measurement locations as shown in Exhibit 5-A.
[4] Observed nighttime ambient noise levels as shown in Table 5-1.
[5] Represents the combined ambient conditions plus the Project activities.
[6] The noise level increase expected with the addition of the proposed Project activities.
7 Si[8]nificance increase criteria as shown in Table 4-1.

11 CONSTRUCTION IMPACTS

This section analyzes potential impacts resulting from the short-term construction activities associated with the development of the Project. Exhibit 11-1 shows the construction noise source activity in relation to the nearest sensitive receiver locations previously described in Section 8. Section 8.52.020 of the City's Code of Ordinances, provided in Appendix 3.1, indicates that construction activity is limited to the hours of 6:00 a.m. to 6:00 p.m. June through September, and 7:00 a.m. to 6:00 p.m. October through May. (16).

11.1 CONSTRUCTION NOISE LEVELS

The FTA *Transit Noise and Vibration Impact Assessment Manual* recognizes that construction projects are accomplished in several different stages and outlines the procedures for assessing noise impacts during construction. Each stage has a specific equipment mix, depending on the work to be completed during that stage. As a result of the equipment mix, each stage has its own noise characteristics; some stages have higher continuous noise levels than others, and some have higher impact noise levels than others. The Project construction activities are expected to occur in the following stages:

- Demolition
- Site Preparation
- Grading
- Building Construction
- Paving
- Architectural Coating

11.2 CONSTRUCTION REFERENCE NOISE LEVELS

To describe construction noise activities, this construction noise analysis was prepared using reference construction equipment noise levels from the Federal Highway Administration (FHWA), which published the Roadway Construction Noise Model (RCNM), which includes a national database of construction equipment reference noise emission levels. (31) The RCNM equipment database provides a comprehensive list of the noise-generating characteristics of specific types of construction equipment. In addition, the database provides an acoustical usage factor to estimate the fraction of time each piece of construction equipment is operating at full power (i.e., its loudest condition) during a construction operation. Other Project reports, such as the air quality, greenhouse gas, and energy reports, utilize the California Emission Estimator Model (CalEEMod) to generate a construction equipment list, which focuses on the highest air emissions over periods of a day or longer. However, some of the loudest pieces of construction equipment, such as jackhammers, pile drivers, and pavement breakers, are not included in the CalEEMod database because they are not large air-emission emitters. According to the EPA, FTA, and FHWA, the overall construction noise level is governed primarily by the noisiest pieces of equipment. The quieter pieces do not affect the overall level, but they do reduce the magnitude of the fluctuations in the noise level. Therefore, a rough estimate of the noise level need only include the three noisiest pieces of equipment expected at the site. (8) (32) (33) Consistent with FHWA and FTA guidance for detailed construction noise assessment, Table 10-1 presents the combined noise levels for the loudest construction activities expected for each stage, assuming all equipment shown in a stage operates simultaneously.

EXHIBIT 11-1: CONSTRUCTION NOISE SOURCE LOCATIONS



TABLE 11-1: CONSTRUCTION REFERENCE NOISE LEVELS

Construction Stage	Reference Construction Equipmnet[1]	Reference Noise Level @ 50 Feet (dBA L_{eq})	Composite Reference Noise Level (dBA L_{eq})[2]	Reference Power Level (dBA L_w)[3]
Demolition	Concrete Saw	83	86.1	117.7
	Excavator	77		
	Jack Hammer	82		
Site Preparation	Tractor	80	82.9	114.5
	Front End Loader	75		
	Dozer	78		
Grading	Tractor	80	84.2	115.9
	Grader	81		
	Compactor (ground)	76		
Building Construction	Crane	73	82.1	113.7
	Generator	78		
	Gradall	79		
Paving	Paver	74	77.8	109.5
	Dump Truck	72		
	Roller	73		
Architectural Coating	Man Lift	68	76.2	107.8
	Compressor (air)	74		
	Generator (<25kVA)	70		

[1] FHWA Road Construction Noise Model.
[2] Represents the combined noise level for all equipment, assuming they operate at the same time, consistent with FTA Transit Noise and Vibration Impact Assessment guidance.
[3] Sound power level represents the total amount of acoustical energy (noise level) produced by a sound source independent of distance or surroundings.

11.3 CONSTRUCTION NOISE ANALYSIS

Construction projects involve various stages, and activities frequently shift from one location to another. For example, during site preparation and grading, noise-generating activities may concentrate in an area for a short period to remove an obstruction, while the majority of the grading involves the equipment moving back and forth in a predictable pattern throughout the site; building construction and foundation work generally concentrate near the building footprint, while paving generally involves a predictable pattern of movement throughout the site. Therefore, construction activities are best evaluated as multiple moving point sources within the construction area since the speed and power of the equipment vary, and the equipment constantly changes position in terms of its distance and direction relative to the receivers. (34) Using the reference construction equipment noise levels and the CadnaA noise prediction model, calculations of the Project construction noise level impacts by phase at the nearby sensitive receiver locations were completed. To account for the dynamic nature of construction activities, the CadnaA construction noise analysis evaluates the noise source activities as multiple moving point sources, or construction crews, within the limits of construction. Construction impacts are based on the loudest activity and the highest noise level calculated at each receiver location. As shown in Table 11-2, the highest construction noise levels

are expected to range from 64.5 to 72.8 dBA L_{eq} at the nearby receiver locations. Appendix 11.1 includes the detailed CadnaA construction noise model inputs.

TABLE 11-2: CONSTRUCTION EQUIPMENT NOISE LEVEL SUMMARY

Receiver Location[1]	Construction Noise Levels (dBA L_{eq})					
	Demolition	Grading	Building Construction	Paving	Architectural Coating	Highest Levels[2]
R1	68.1	66.2	64.1	59.8	58.2	68.1
R2	72.6	70.7	68.6	64.3	62.7	72.6
R3	72.8	70.9	68.8	64.5	62.9	72.8
R4	72.5	70.6	68.5	64.2	62.6	72.5
R5	69.0	67.1	65.0	60.7	59.1	69.0
R6	69.6	67.7	65.6	61.3	59.7	69.6
R7	67.6	65.7	63.6	59.3	57.7	67.6
R8	67.6	65.7	63.6	59.3	57.7	67.6
R9	67.7	65.8	63.7	59.4	57.8	67.7
R10	64.5	62.6	60.5	56.2	54.6	64.5
R11	68.1	66.2	64.1	59.8	58.2	68.1

[1] Construction noise source and receiver locations are shown in Exhibit 11-1.
[2] Construction noise level calculations based on distance from the construction activity, which is measured from the Project site boundary to the nearest receiver locations. CadnaA construction noise model inputs are included in Appendix 11.1.

11.4 PROJECT SITE CONSTRUCTION NOISE LEVEL COMPLIANCE

To evaluate whether the Project will generate potentially significant short-term noise levels at the nearest receiver locations, a construction-related daytime noise level threshold of 80 dBA L_{eq} is used as a reasonable threshold to assess the daytime construction noise level impacts. The construction noise analysis shows that the nearest receiver locations will satisfy the reasonable daytime 80 dBA L_{eq} significance threshold during Project construction activities, as shown in Table 11-3. Therefore, the noise impacts due to the Project construction noise are considered *less than significant* at all receiver locations.

TABLE 11-3: CONSTRUCTION NOISE LEVEL COMPLIANCE

Receiver Location[1]	Construction Noise Levels (dBA L_{eq})		
	Highest Construction Noise Levels[2]	Threshold[3]	Threshold Exceeded?[4]
R1	68.1	80	No
R2	72.6	80	No
R3	72.8	80	No
R4	72.5	80	No
R5	69.0	80	No
R6	69.6	80	No
R7	67.6	80	No
R8	67.6	80	No
R9	67.7	80	No
R10	64.5	80	No
R11	68.1	80	No

[1] Construction noise source and receiver locations are shown in Exhibit 11-1.
[2] Highest construction noise level calculations based on distance from the construction noise source activity to the nearest receiver locations as shown in Table 11-2.
3 [C]onstruction noise level thresholds as shown in Table 4-1.
4 Do the estimated Project construction noise levels exceed the construction noise level threshold?

11.5 TEMPORARY CONSTRUCTION NOISE LEVEL INCREASES

To describe the temporary Project construction noise level increase associated with the Project construction, the Project construction noise levels were combined with the existing ambient noise level measurements at the nearest off-site receiver locations. The difference between the combined Project-construction and ambient noise levels is used to describe the construction noise level contributions. Temporary noise level increases that would be experienced at sensitive receiver locations when the Project construction-source noise is added to the ambient daytime conditions are presented in Table 11-4. As previously outlined in Section 4.1.3, a temporary noise level increase of 20 dBA L_{eq} is considered *significant*.

As indicated in Table 11-4, the Project construction will contribute to noise level increases ranging from 6.3 to 11.7 dBA L_{eq} during the daytime hours at the nearest receiver locations. The unmitigated construction noise analysis shows that the nearest receiver locations will not exceed the 20 dBA L_{eq} noise level increase significance threshold during Project construction activities. The temporary construction noise level increase analysis shows that the noise impacts due to the Project construction noise are considered *less than significant*.

TABLE 11-4: DAYTIME CONSTRUCTION NOISE LEVEL INCREASES

Receiver Location[1]	Typical Project Construction Noise Level[2]	Measurement Location[3]	Reference Ambient Noise Levels[4]	Combined Project and Ambient[5]	Project Increase[6]	Increase Criteria[7]	Increase Criteria Exceeded?
R1	68.1	L1	62.9	69.2	6.3	20	No
R2	72.6	L2	64.3	73.2	8.9	20	No
R3	72.8	L2	64.3	73.4	9.1	20	No
R4	72.5	L2	64.3	73.1	8.8	20	No
R5	69.0	L3	61.5	69.7	8.2	20	No
R6	69.6	L3	61.5	70.2	8.7	20	No
R7	67.6	L4	56.3	67.9	11.6	20	No
R8	67.6	L4	56.3	67.9	11.6	20	No
R9	67.7	L4	56.3	68.0	11.7	20	No
R10	64.5	L4	56.3	65.1	8.8	20	No
R11	68.1	L1	62.9	69.2	6.3	20	No

[1] Construction noise source and receiver locations are shown in Exhibit 11-1.
[2] Typical Project daytime construction noise levels as shown in Table 11-3.
[3] Reference noise level measurement locations as shown in Exhibit 5-A.
[4] Observed daytime ambient noise levels as shown in Table 5-1.
[5] Represents the combined ambient conditions plus the Project construction activities.
[6] The noise level increase expected with the addition of the proposed Project construction activities.
[7] Temporary construction noise increases that can be tolerated without significant adverse effects.

11.6 CONSTRUCTION VIBRATION ANALYSIS

Construction activity can result in varying degrees of ground vibration, depending on the equipment and methods employed. The operation of construction equipment causes ground vibrations that spread through the ground and diminish in strength with distance. Ground vibration levels associated with various types of construction equipment are summarized in Table 11-6. Based on the representative vibration levels presented for various construction equipment types, it is possible to estimate the potential for human response (annoyance) and building damage using the following vibration assessment methods defined by Caltrans. To describe the vibration impacts, Caltrans provides the following equation: $PPV_{equip} = PPV_{ref} \times (25/D)^{1.5}$

Using the vibration source level of construction equipment provided in Table 11-6 and the construction vibration assessment methodology published by the FTA, it is possible to estimate the Project vibration impacts. Table 11-6 presents the expected project-related vibration levels at the nearby receiver locations. At distances ranging from 15 to 157 feet from Project construction activities, construction vibration velocity levels are estimated to range from 0.01 to 0.50 PPV in/sec. Based on the maximum acceptable continuous vibration threshold of 0.30 PPV (in/sec), the typical Project construction vibration levels will exceed the vibration thresholds at receivers R2, R3, and R4. Therefore, the Project-related vibration impacts are considered *potentially significant* during typical construction activities at the Project site.

TABLE 11-5: VIBRATION SOURCE LEVELS FOR CONSTRUCTION EQUIPMENT

Equipment	PPV (in/sec) at 25 feet
Small bulldozer	0.003
Jackhammer	0.035
Loaded Trucks	0.076
Large bulldozer	0.089
Vibratory Roller	0.210

Federal Transit Administration, Transit Noise and Vibration Impact Assessment Manual

Using the vibration source level of construction equipment provided in Table 11-6 and the construction vibration assessment methodology published by the FTA, it is possible to estimate the Project vibration impacts. Table 11-6 presents the expected project-related vibration levels at the nearby receiver locations. At distances ranging from 15 to 157 feet from Project construction activities, construction vibration velocity levels are estimated to range from 0.01 to 0.50 PPV in/sec. Based on the maximum acceptable continuous vibration threshold of 0.30 PPV (in/sec), the typical Project construction vibration levels will exceed the vibration thresholds at receivers R2, R3, and R4. Therefore, the Project-related vibration impacts are considered *potentially significant* during typical construction activities at the Project site.

It should be noted that vibration levels at the site of the closest sensitive receiver are unlikely to be sustained during the entire construction period, but will occur only during the times that heavy construction equipment is operating adjacent to the Project site perimeter. Moreover, construction at the Project site will be restricted to daytime hours, consistent with City of Eastvale requirements, eliminating potential vibration impacts during the sensitive evening and nighttime hours.

TABLE 11-6: PROJECT CONSTRUCTION VIBRATION LEVELS – UNMITIGATED

Location[1]	Distance to Const. Activity (Feet)[2]	Typical Construction Vibration Levels PPV (in/sec)[3]						Thresholds PPV (in/sec)[4]	Thresholds Exceeded?[5]
		Small bulldozer	Jack-hammer	Loaded Trucks	Large bulldozer	Vibratory Roller	Highest Vibration Level		
R1	107'	0.00	0.00	0.01	0.01	0.02	0.02	0.30	No
R2	15'	0.01	0.08	0.18	0.21	0.50	0.50	0.30	**Yes**
R3	19'	0.00	0.05	0.11	0.13	0.32	0.32	0.30	**Yes**
R4	18'	0.01	0.06	0.14	0.16	0.37	0.37	0.30	**Yes**
R5	82'	0.00	0.01	0.01	0.01	0.04	0.04	0.30	No
R6	67'	0.00	0.01	0.02	0.02	0.05	0.05	0.30	No
R7	95'	0.00	0.00	0.01	0.01	0.03	0.03	0.30	No
R8	105'	0.00	0.00	0.01	0.01	0.02	0.02	0.30	No
R9	105'	0.00	0.00	0.01	0.01	0.02	0.02	0.30	No
R10	157'	0.00	0.00	0.00	0.01	0.01	0.01	0.30	No
R11	97'	0.00	0.00	0.01	0.01	0.03	0.03	0.30	No

[1] Construction noise source and receiver locations are shown in Exhibit 11-1.
[2] Distance from receiver building facade to Project construction boundary (Project site boundary).
[3] Based on the Vibration Source Levels of Construction Equipment (Table 11-5).
[4] Caltrans Transportation and Construction Vibration Guidance Manual, April 2020, Table 19, p. 38.
[5] Does the peak vibration exceed the acceptable vibration thresholds?
"PPV" = Peak Particle Velocity

11.7 CONSTRUCTION VIBRATION IMPACTS MITIGATION

A 20-foot equipment buffer zone is required to restrict the use of heavy construction equipment (greater than 80,000 pounds), vibratory rollers, large loaded trucks, and large bulldozers within 20 feet of occupied sensitive receivers. With the mitigation measure identified in this analysis and shown in Exhibit ES-1, and as demonstrated in Table 11-7, the mitigated vibration levels with the 76-foot equipment buffer zone will be reduced to 0.30 PPV (in/sec) and will satisfy the 0.30 PPV (in/sec) threshold. Therefore, with the construction vibration mitigation measure identified in this study, vibration impacts will be *less than significant*.

- Vibratory rollers, large loaded trucks, and dozers (equipment weighing 80,000 pounds or more) shall not be allowed within 20 feet of any receiver location at the time of Project construction. Instead, smaller, rubber-tired bulldozers (less than 80,000 pounds) shall be used within this area during Project construction to reduce vibration levels.

TABLE 11-7: PROJECT CONSTRUCTION VIBRATION LEVELS – MITIGATED

Location[1]	Distance to Const. Activity (Feet)[2]	Typical Construction Vibration Levels PPV (in/sec)[3]						Thresholds PPV (in/sec)[4]	Thresholds Exceeded?[5]
		Small bulldozer	Jack-hammer	Loaded Trucks	Large bulldozer	Vibratory Roller	Highest Vibration Level		
R1	107'	0.00	0.00	0.01	0.01	0.02	0.02	0.30	No
R2	20'	0.00	0.05	0.11	0.12	0.29	0.29	0.30	No
R3	20'	0.00	0.05	0.11	0.12	0.29	0.29	0.30	No
R4	20'	0.00	0.05	0.11	0.12	0.29	0.29	0.30	No
R5	82'	0.00	0.01	0.01	0.01	0.04	0.04	0.30	No
R6	67'	0.00	0.01	0.02	0.02	0.05	0.05	0.30	No
R7	95'	0.00	0.00	0.01	0.01	0.03	0.03	0.30	No
R8	105'	0.00	0.00	0.01	0.01	0.02	0.02	0.30	No
R9	105'	0.00	0.00	0.01	0.01	0.02	0.02	0.30	No
R10	157'	0.00	0.00	0.00	0.01	0.01	0.01	0.30	No
R11	97'	0.00	0.00	0.01	0.01	0.03	0.03	0.30	No

[1] Construction noise source and receiver locations are shown in Exhibit 11-1.
[2] Distance from receiver building facade to Project construction boundary (Project site boundary).
[3] Based on the Vibration Source Levels of Construction Equipment (Table 11-5).
[4] Caltrans Transportation and Construction Vibration Guidance Manual, April 2020, Table 19, p. 38.
[5] Does the peak vibration exceed the acceptable vibration thresholds?
"PPV" = Peak Particle Velocity

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13 CERTIFICATION

The contents of this noise study report represent an accurate depiction of the noise environment and impacts associated with the Project. The information contained in this noise study report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (619) 788-1971.

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EDUCATION

Bachelor of Science in Urban and Regional Planning
California Polytechnic State University, Pomona • June 2000

PROFESSIONAL AFFILIATIONS

ASA – Acoustical Society of America
AEP – Association of Environmental Planners
AWMA – Air and Waste Management Association
INCE – Institute of Noise Control Engineers

PROFESSIONAL CERTIFICATIONS

Approved Acoustical Consultant • County of San Diego
FHWA Traffic Noise Model of Training • November 2004
CadnaA Basic and Advanced Training Certificate • October 2008

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APPENDIX 3.1:

CITY OF EASTVALE MUNICIPAL CODE

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CHAPTER 8.52. - NOISE REGULATION

Sec. 8.52.010. - Reserved.

Sec. 8.52.020. - Exemptions.

Sound emanating from the following sources is exempt from the provisions of this chapter:

(1) Facilities owned or operated by or for a governmental agency, except to the extent that the noise is emanating from a nongovernmental use of the facility, including but not limited to events noise generated by events held by third parties renting the facility;

(2) Capital improvement projects of a governmental agency;

(3) The maintenance or repair of public properties;

(4) Public safety personnel in the course of executing their official duties, including, but not limited to, sworn peace officers, emergency personnel and public utility personnel. This exemption includes, without limitation, sound emanating from all equipment used by such personnel, whether stationary or mobile;

(5) Public or private schools and school-sponsored activities;

(6) Agricultural operations on land designated agriculture in the city general plan, or land zoned A-l (light agriculture), A-P (light agriculture with poultry), A-2 (heavy agriculture), A-D (agriculture-dairy) or C/V (citrus/vineyard), provided such operations are carried out in a manner consistent with accepted industry standards. This exemption includes, without limitation, sound emanating from all equipment used during such operations, whether stationary or mobile;

(7) Wind energy conversion systems (WECS), provided such systems comply with the WECS noise provisions of county Ordinance No. 348;

(8) Private construction projects located one-quarter of a mile or more from an inhabited dwelling;

(9) Private construction projects located within one-quarter of a mile from an inhabited dwelling, provided that construction does not occur between the hours of:

a. 6:00 p.m. and 6:00 a.m. during the months of June through September; and

b. 6:00 p.m. and 7:00 a.m. during the months of October through May;

(10) Property maintenance, including, but not limited to, the operation of lawnmowers, leaf blowers, etc., provided such maintenance occurs between the hours of 7:00 a.m. and 8:00 p.m.;

(11)

Motor vehicles, other than off-highway vehicles. This exemption does not include sound emanating from motor vehicle sound systems;

(12) Heating and air conditioning equipment;

(13) Safety, warning and alarm devices, including, but not limited to, house and car alarms, and other warning devices that are designed to protect the public health, safety and welfare;

(14) The discharge of firearms consistent with all state laws.

(Ord. No. 2011-04, §§ 1, 2, 1-26-2011; Ord. No. 23-28, § 2, 1-10-2024)

Sec. 8.52.030. - Definitions.

The following words, terms and phrases, when used in this chapter, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning:

Audio equipment means a television, stereo, radio, tape player, compact disc player, mp3 player, I-POD or other similar device.

Decibel (dB) means a unit for measuring the relative amplitude of a sound equal approximately to the smallest difference normally detectable by the human ear, the range of which includes approximately 130 decibels on a scale beginning with zero decibels for the faintest detectable sound. Decibels are measured with a sound level meter using different methodologies defined as follows:

(1) The term, "A-weighting (dBA)" means the standard A-weighted frequency response of a sound level meter, which de-emphasizes low and high frequencies of sound in a manner similar to the human ear for moderate sounds.

(2) The term "maximum sound level (Lmax)" means the maximum sound level measured on a sound level meter.

Governmental agency means the United States, the state, the county, any city within the county, any special district within the county or any combination of these agencies.

Land use permit means a discretionary permit issued by the city pursuant to title 120 (planning and zoning) of this Code.

Motor vehicle means a vehicle that is self-propelled.

Motor vehicle sound system means a stereo, radio, tape player, compact disc player, mp3 player, I-POD or other similar device in a motor vehicle.

Noise means any loud, discordant or disagreeable sound.

Occupied property means property upon which is located a residence, business or industrial or manufacturing use.

Off-highway vehicle means a motor vehicle designed to travel over any terrain.

Public or private school means an institution conducting academic instruction at the preschool, elementary school, junior high school, high school or college level.

Public property means property owned by a governmental agency or held open to the public, including, but not limited to, parks, streets, sidewalks, and alleys.

Sensitive receptor means a land use that is identified as sensitive to noise in the noise element of the city general plan, including, but not limited to, residences, schools, hospitals, churches, rest homes, cemeteries or public libraries.

Sound-amplifying equipment means a loudspeaker, microphone, megaphone or other similar device.

Sound level meter means an instrument meeting the standards of the American National Standards Institute for type 1 or type 2 sound level meters or an instrument that provides equivalent data.

(Ord. No. 2011-04, §§ 1, 2, 1-26-2011)

Sec. 8.52.040. - General sound level standards.

No person shall create any sound, or allow the creation of any sound, on any property that causes the exterior sound level on any other occupied property to exceed the sound level standards set forth in the following table:

TABLE 1. SOUND LEVEL STANDARDS (dB Lmax)

General Plan Foundation Component				Maximum Decibel Level	
Land Use Designation General Plan		Land Use Designation Name	Density	7:00 a.m. — 10:00 p.m.	10:00 p.m.— 7:00 a.m.
Community development					
	EDR	Estate density residential	2 acres	55	45
	VLDR	Very low-density residential	1 acre	55	45
	LDR	Low-density residential	½ acre	55	45

	MDR	Medium-density residential	2—5	55	45
	MHDR	Medium high-density residential	5—8	55	45
	HDR	High-density residential	8—14	55	45
	VHDR	Very high-density residential	14—20	55	45
	H'TDR	Highest density residential	20+	55	45
	CR	Retail commercial		65	55
	CO	Office commercial		65	55
	CT	Tourist commercial		65	55
	CC	Community center		65	55
	LI	Light industrial		75	55
	HI	Heavy industrial		75	75
	BP	Business park		65	45
	PF	Public facility		65	45
	SP	Specific plan-residential		55	45
		Specific plan-commercial		65	55
		Specific plan-light industrial		75	55
		Specific plan-heavy industrial		75	75
Rural community					

	EDR	Estate density residential	2 acres	55	45
	VLDR	Very low-density residential	1 acre	55	45
	LDR	Low-density residential	½ acre	55	45
Rural					
	RR	Rural residential	5 acres	45	45
	RM	Rural mountainous	10 acres	45	45
	RD	Rural desert	10 acres	45	45
Agriculture					
	AG	Agriculture	10 acres	45	45
Open space					
	C	Conservation		45	45
	CH	Conservation habitat		45	45
	REC	Recreation		45	45
	RUR	Rural	20 acres	45	45
	W	Watershed		45	45
	MR	Mineral resources		75	45

(Ord. No. 2011-04, §§ 1, 2, 1-26-2011)

Sec. 8.52.050. - Sound level measurement methodology.

Sound level measurements may be made anywhere within the boundaries of an occupied property. The actual location of a sound level measurement shall be at the discretion of the enforcement officials identified in section 8.52.080. Sound level measurements shall be made with a sound level meter. Immediately before a measurement is made, the sound level meter shall be calibrated utilizing an acoustical calibrator meeting the standards of the American National Standards Institute. Following a sound level measurement, the calibration of the sound level meter shall be reverified. Sound level meters and calibration equipment shall be certified annually.

(Ord. No. 2011-04, §§ 1, 2, 1-26-2011)

Sec. 8.52.060. - Special sound sources standards.

The general sound level standards set forth in section 8.52.040 apply to sound emanating from all sources, including the special sound sources set forth in this section, and the person creating, or allowing the creation of, the sound is subject to the requirements of that section. The following special sound sources are also subject to the following additional standards, the failure to comply with which constitutes separate violations of this chapter:

(1) *Motor vehicles.*

a. *Off-highway vehicles.*

1. No person shall operate an off-highway vehicle unless it is equipped with a USDA-qualified spark arrester and a constantly operating and properly maintained muffler. A muffler is not considered constantly operating and properly maintained if it is equipped with a cutout, bypass or similar device.

2. No person shall operate an off-highway vehicle unless the noise emitted by the vehicle is not more than 96 dBA if the vehicle was manufactured on or after January 1, 1986, or is not more than 101 dBA if the vehicle was manufactured before January 1, 1986. For purposes of this subsection, emitted noise shall be measured a distance of 20 inches from the vehicle tailpipe using test procedures established by the Society of Automotive Engineers under Standard J-1287.

b. *Sound systems.* No person shall operate a motor vehicle sound system, whether affixed to the vehicle or not, between the hours of 10:00 p.m. and 8:00 a.m., such that the sound system is audible to the human ear inside any inhabited dwelling. No person shall operate a motor vehicle sound system, whether affixed to the vehicle or not, at any other time such that the sound system is audible to the human ear at a distance greater than 100 feet from the vehicle.

(2)

Power tools and equipment. No person shall operate any power tools or equipment between the hours of 10:00 p.m. and 8:00 a.m. such that the power tools or equipment are audible to the human ear inside an inhabited dwelling other than a dwelling in which the power tools or equipment may be located. No person shall operate any power tools or equipment at any other time such that the power tools or equipment are audible to the human ear at a distance greater than 100 feet from the power tools or equipment.

(3) *Audio equipment.* No person shall operate any audio equipment, whether portable or not, between the hours of 10:00 p.m. and 8:00 a.m. such that the equipment is audible to the human ear inside an inhabited dwelling other than a dwelling in which the equipment may be located. No person shall operate any audio equipment, whether portable or not, at any other time such that the equipment is audible to the human ear at a distance greater than 100 feet from the equipment.

(4) *Sound-amplifying equipment and live music.* No person shall install, use or operate sound-amplifying equipment, or perform, or allow to be performed, live music unless such activities comply with the following requirements. To the extent that these requirements conflict with any conditions of approval attached to an underlying land use permit, these requirements shall control:

a. Sound-amplifying equipment or live music is prohibited between the hours of 10:00 p.m. and 8:00 a.m.

b. Sound emanating from sound-amplifying equipment or live music at any other time shall not be audible to the human ear at a distance greater than 200 feet from the equipment or music.

(Ord. No. 2011-04, §§ 1, 2, 1-26-2011)

Sec. 8.52.070. - Exceptions.

Exceptions may be requested from the standards set forth in section 8.52.040 or 8.52.060 and may be characterized as construction-related, single-event or continuous event exceptions.

(1) *Application and processing.*

a. *Construction-related exceptions.* An application for a construction-related exception shall be made to and considered by the city on forms provided by the city and shall be accompanied by the appropriate filing fee. No public hearing is required.

b. *Single-event exceptions.* An application for a single-event exception shall be made to and considered by the city on forms provided by the planning department and shall be accompanied by the appropriate filing fee. No public hearing is required.

c. *Continuous-event exceptions.* An application for a continuous-event exception shall be made to the city on forms provided by the planning department and shall be accompanied by the appropriate filing fee. Upon receipt of an application for a

continuous-event exception, the city shall set the matter for public hearing before the planning commission, notice of which shall be given as provided in the Eastvale Municipal Code. Notwithstanding the exceptions set forth in this section, an application for a continuous-event exception that is associated with an application for a land use permit shall be processed concurrently with the land use permit in the same manner that the land use permit is required to be processed.

(2) *Requirements for approval.* The appropriate decision making body or officer shall not approve an exception application unless the applicant demonstrates that the activities described in the application would not be detrimental to the health, safety or general welfare of the community. In determining whether activities are detrimental to the health, safety or general welfare of the community, the appropriate decision-making body or officer shall consider such factors as the proposed duration of the activities and their location in relation to sensitive receptors. If an exception application is approved, reasonable conditions may be imposed to minimize the public detriment, including, but not limited to, restrictions on sound level, sound duration and operating hours.

(3) *Appeals.* The city's decision on an application for a construction-related exception is considered final. The city's decision on an application for a single-event exception is considered final. After making a decision on an application for a continuous-event exception, the appropriate decision-making body or officer shall mail notice of the decision to the applicant. Within ten calendar days after the mailing of such notice, the applicant or an interested person may appeal the decision to the city council. Upon receipt of an appeal and payment of the appropriate appeal fee, the city clerk shall set the matter for hearing not less than five days nor more than 30 days thereafter and shall give written notice of the hearing in the same manner as notice of the hearing was given by the appropriate hearing officer or body. The city council shall render its decision within 30 days after the appeal hearing is closed.

(4) *Effect of a pending continuous-event exception application.* For a period of 180 days from the effective date of the ordinance from which this chapter is derived, no person creating any sound prohibited by this chapter shall be considered in violation of this chapter if the sound is related to a use that is operating pursuant to an approved land use permit, if an application for a continuous-event exception has been filed to sanction the sound and if a decision on the application is pending.

(Ord. No. 2011-04, §§ 1, 2, 1-26-2011)

Sec. 8.52.080. - Enforcement.

The chief of police and community development director shall have the primary responsibility for enforcing this chapter; provided, however, the chief of police and community development director may be assisted by the public health department. Violations shall be prosecuted as described in section 8.52.100, but nothing in this chapter shall prevent the chief of police, community development director or the department of public health from engaging in efforts to obtain voluntary compliance by means of warnings, notices or educational programs.

(Ord. No. 2011-04, §§ 1, 2, 1-26-2011; Ord. No. 23-22, § 1, 2-8-2023)

Sec. 8.52.090. - Duty to cooperate.

No person shall refuse to cooperate with, or obstruct, the enforcement officials identified in section 8.52.080 when they are engaged in the process of enforcing the provisions of this chapter. This duty to cooperate may require a person to extinguish a sound source so that it can be determined whether sound emanating from the source violates the provisions of this chapter.

(Ord. No. 2011-04, §§ 1, 2, 1-26-2011)

Sec. 8.52.100. - Violations and penalties.

Any person who violates any provision of this chapter once or twice within a 180-day period shall be guilty of an infraction. Any person who violates any provision of this chapter more than twice within a 180-day period shall be guilty of a misdemeanor. Each day a violation is committed or permitted to continue shall constitute a separate offense and shall be punishable as such. Penalties shall not exceed the following amounts:

(1) For the first violation within a 180-day period, the minimum mandatory fine shall be $500.00.

(2) For the second violation within a 180-day period, the minimum mandatory fine shall be $750.00.

(3) For any further violations within a 180-day period, the minimum mandatory fine shall be $1,000.00 or imprisonment in the county jail for a period not exceeding six months, or both.

(Ord. No. 2011-04, §§ 1, 2, 1-26-2011)

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APPENDIX 5.1:

STUDY AREA PHOTOS

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13448 - Sumner Place Apartments

13448_L1_A 1.North
33, 57' 39.530000",117, 34' 26.970000"



13448_L1_A 2.South
33, 57' 39.510000",117, 34' 26.970000"



13448_L1_A 3.East
33, 57' 39.530000",117, 34' 26.940000"



13448_L1_A 4.West
33, 57' 39.480000",117, 34' 27.240000"

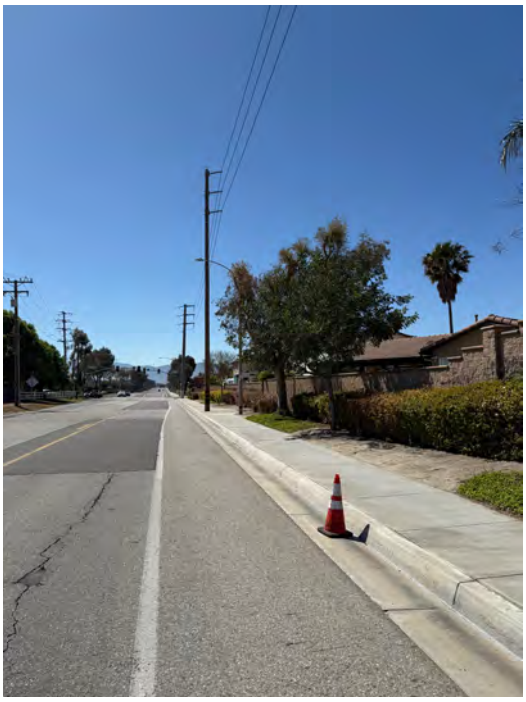


13448 - Sumner Place Apartments

13448_L2_C 1.North
33, 57' 36.560000",117, 34' 33.180000"



13448_L2_C 2.South
33, 57' 36.370000",117, 34' 33.070000"



13448_L2_C 3.East
33, 57' 36.420000",117, 34' 33.040000"

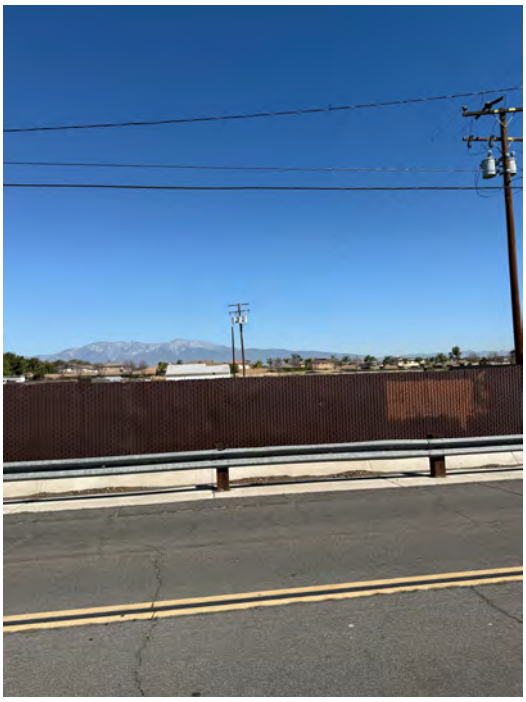


13448_L2_C 4.West
33, 57' 36.340000",117, 34' 33.150000"



13448 - Sumner Place Apartments

13448_L3_D 1.North
33, 57' 32.480000",117, 34' 28.810000"



13448_L3_D 2.South
33, 57' 32.450000",117, 34' 28.860000"



13448_L3_D 3.East
33, 57' 32.410000",117, 34' 28.590000"



13448_L3_D 4.West
33, 57' 32.400000",117, 34' 28.700000"



13448 - Sumner Place Apartments

13448_L4_E 1.North
33, 57' 34.910000",117, 34' 23.290000"



13448_L4_E 2.South
33, 57' 34.680000",117, 34' 23.260000"



13448_L4_E 3.East
33, 57' 34.640000",117, 34' 23.230000"



13448_L4_E 4.West
33, 57' 34.640000",117, 34' 23.230000"



APPENDIX 5.2:

NOISE LEVEL MEASUREMENT WORKSHEETS

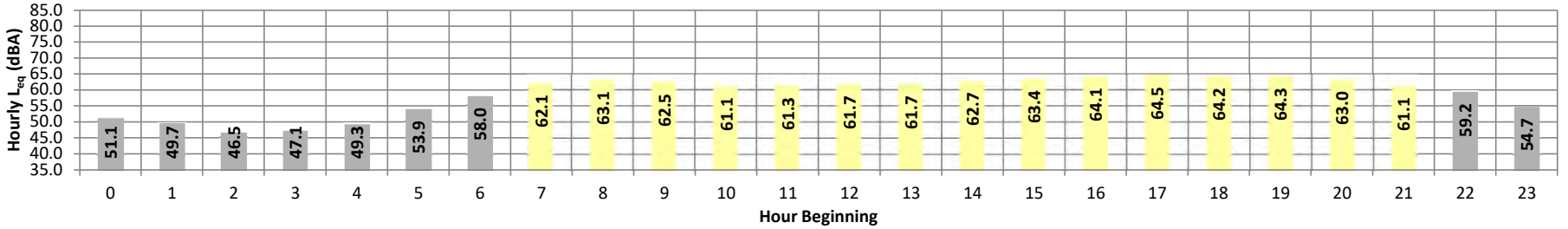
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24-Hour Noise Level Measurement Summary

Date: Tuesday, March 25, 2025 *Location:* L1 - Located north of the site near the residence at 13355 *Meter:* Piccolo II *JN:* 13448

Project: Summer Place *Source:* Bashkir St *Analyst:* Z. Ibrahim

Hourly L_{eq} dBA Readings (unadjusted)



Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%	L_{eq}	Adj.	Adj. L_{eq}
Night	0	51.1	63.0	39.9	62.6	61.8	59.8	57.0	45.5	41.8	40.5	40.3	40.0	51.1	10.0	61.1
	1	49.7	61.6	41.4	61.1	60.1	57.7	54.8	45.2	43.5	42.0	41.8	41.5	49.7	10.0	59.7
	2	46.5	57.3	40.3	57.0	56.3	54.3	51.3	43.5	42.1	40.9	40.7	40.4	46.5	10.0	56.5
	3	47.1	57.6	40.6	56.8	55.8	53.5	51.3	45.9	43.5	41.3	41.0	40.8	47.1	10.0	57.1
	4	49.3	58.3	44.5	57.9	57.3	55.2	53.6	48.7	46.5	45.1	44.9	44.6	49.3	10.0	59.3
	5	53.9	64.2	43.9	63.9	63.3	61.1	58.8	52.9	48.9	44.6	44.3	44.0	53.9	10.0	63.9
	6	58.0	67.4	43.1	67.1	66.5	64.9	63.3	58.1	53.0	46.1	44.7	43.4	58.0	10.0	68.0
Day	7	62.1	69.8	50.0	69.5	69.0	67.6	66.7	63.3	59.2	53.0	51.7	50.2	62.1	0.0	62.1
	8	63.1	70.6	49.9	70.4	70.0	68.6	67.4	64.3	60.6	53.1	51.6	50.1	63.1	0.0	63.1
	9	62.5	70.7	50.7	70.4	69.9	68.2	67.0	63.5	59.5	53.4	52.1	50.9	62.5	0.0	62.5
	10	61.1	69.3	46.1	68.8	68.3	66.8	65.8	62.4	58.1	49.3	47.7	46.3	61.1	0.0	61.1
	11	61.3	69.3	46.0	69.0	68.5	67.0	65.9	62.5	58.4	49.7	47.7	46.2	61.3	0.0	61.3
	12	61.7	70.1	45.8	69.7	69.2	67.3	66.0	63.2	58.9	49.8	47.9	46.1	61.7	0.0	61.7
	13	61.7	69.5	47.0	69.2	68.6	67.0	65.9	63.3	59.4	50.2	48.5	47.2	61.7	0.0	61.7
	14	62.7	70.1	50.1	69.8	69.4	67.9	66.8	64.1	60.8	53.4	51.7	50.4	62.7	0.0	62.7
	15	63.4	70.3	51.6	70.0	69.5	68.1	67.1	64.9	62.0	54.9	53.2	51.9	63.4	0.0	63.4
	16	64.1	71.4	51.0	70.9	70.2	68.5	67.6	65.6	63.1	54.9	52.9	51.3	64.1	0.0	64.1
	17	64.5	72.2	52.5	71.8	71.3	69.3	67.9	65.6	63.2	56.3	54.8	52.8	64.5	0.0	64.5
	18	64.2	70.8	51.4	70.5	70.0	68.5	67.8	65.8	63.1	55.7	53.7	51.7	64.2	0.0	64.2
	19	64.3	73.8	47.3	73.6	73.2	70.3	68.0	64.8	61.5	52.0	49.9	47.7	64.3	5.0	69.3
	20	63.0	72.4	44.7	71.8	71.0	68.8	67.2	64.2	60.0	49.2	47.0	44.9	63.0	5.0	68.0
	21	61.1	70.6	42.3	70.3	69.6	67.2	66.0	61.9	56.6	47.0	44.4	42.6	61.1	5.0	66.1
Night	22	59.2	70.1	36.0	69.6	69.0	67.0	64.7	58.5	50.4	39.0	37.6	36.1	59.2	10.0	69.2
	23	54.7	65.9	33.6	65.4	64.8	62.6	60.9	52.6	42.2	34.2	33.9	33.6	54.7	10.0	64.7

Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%
Day	Min	61.1	69.3	42.3	68.8	68.3	66.8	65.8	61.9	56.6	47.0	44.4	42.6
	Max	64.5	73.8	52.5	73.6	73.2	70.3	68.0	65.8	63.2	56.3	54.8	52.8
Energy Average		62.9	Average:		70.4	69.8	68.1	66.9	63.9	60.3	52.1	50.3	48.7
Night	Min	46.5	57.3	33.6	56.8	55.8	53.5	51.3	43.5	41.8	34.2	33.9	33.6
	Max	59.2	70.1	44.5	69.6	69.0	67.0	64.7	58.5	53.0	46.1	44.9	44.6
Energy Average		54.3	Average:		62.4	61.7	59.6	57.3	50.1	45.7	41.5	41.0	40.5

24-Hour CNEL	Leq (dBA) Daytime (7am-10pm)	Leq (dBA) Nighttime (10pm-7am)
64.4	**62.9**	**54.3**

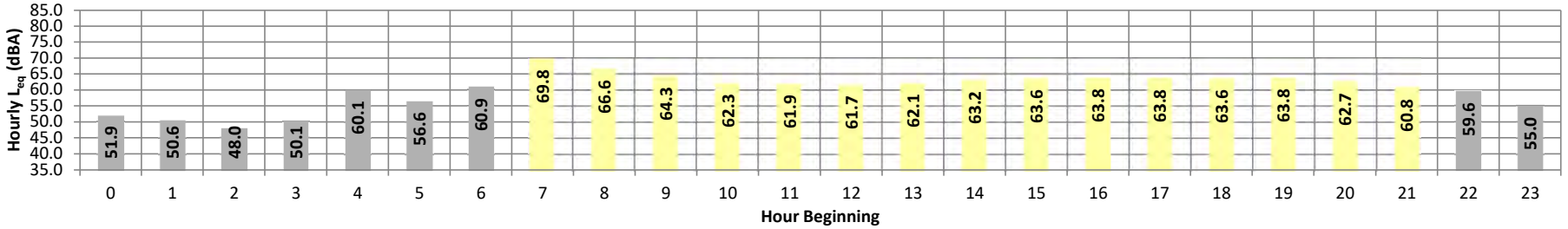
URBAN CROSSROADS

24-Hour Noise Level Measurement Summary

Date: Tuesday, March 25, 2025 *Location:* L2 - Located west of the site near the residence at 7068 Dove *Meter:* Piccolo II *JN:* 13448

Project: Summer Place *Source:* Valley Way *Analyst:* Z. Ibrahim

Hourly L_{eq} dBA Readings (unadjusted)



Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%	L_{eq}	Adj.	Adj. L_{eq}
Night	0	51.9	61.8	41.3	61.6	61.3	59.8	58.0	50.0	44.9	41.9	41.7	41.4	51.9	10.0	61.9
	1	50.6	60.4	41.4	60.1	59.6	58.1	56.4	49.4	45.2	42.0	41.7	41.5	50.6	10.0	60.6
	2	48.0	58.0	40.7	57.7	57.4	55.6	53.6	45.4	42.6	41.3	41.0	40.8	48.0	10.0	58.0
	3	50.1	60.1	41.8	59.7	59.0	56.8	54.9	49.5	45.6	42.6	42.2	41.9	50.1	10.0	60.1
	4	60.1	73.3	45.6	72.8	71.7	68.8	64.4	52.8	49.0	46.4	46.0	45.7	60.1	10.0	70.1
	5	56.6	64.1	47.1	63.9	63.5	62.2	61.2	57.8	53.5	48.4	47.8	47.2	56.6	10.0	66.6
	6	60.9	68.5	50.7	68.1	67.6	66.5	65.1	62.0	58.8	52.7	51.8	50.9	60.9	10.0	70.9
Day	7	69.8	77.1	58.6	76.9	76.4	75.4	74.3	71.1	67.6	60.4	59.6	58.8	69.8	0.0	69.8
	8	66.6	72.3	58.9	72.0	71.8	70.9	70.3	68.1	65.3	60.7	59.8	59.1	66.6	0.0	66.6
	9	64.3	70.4	54.9	70.2	69.7	68.7	68.0	65.8	63.2	56.9	55.9	55.1	64.3	0.0	64.3
	10	62.3	70.1	51.9	69.8	69.3	67.6	66.2	63.4	60.0	53.8	52.9	52.1	62.3	0.0	62.3
	11	61.9	68.7	51.4	68.4	68.0	66.7	65.9	63.3	60.3	54.2	52.7	51.5	61.9	0.0	61.9
	12	61.7	68.4	51.2	68.1	67.6	66.4	65.7	63.2	60.0	53.5	52.2	51.3	61.7	0.0	61.7
	13	62.1	68.7	50.9	68.4	68.0	67.0	66.1	63.5	60.8	53.8	52.2	51.1	62.1	0.0	62.1
	14	63.2	71.3	53.3	70.6	69.9	68.1	67.3	64.1	61.5	55.3	54.4	53.5	63.2	0.0	63.2
	15	63.6	70.2	53.7	69.9	69.5	68.3	67.2	64.7	62.5	56.7	55.2	54.0	63.6	0.0	63.6
	16	63.8	70.1	53.5	69.7	69.3	68.1	67.3	65.1	62.8	56.7	55.1	53.9	63.8	0.0	63.8
	17	63.8	71.2	53.6	70.8	70.2	68.2	67.1	64.9	62.5	56.9	55.6	53.9	63.8	0.0	63.8
	18	63.6	69.7	53.6	69.3	68.8	67.7	67.1	65.0	62.6	56.1	54.9	53.8	63.6	0.0	63.6
	19	63.8	73.4	51.2	72.8	71.9	68.8	67.1	64.5	61.8	54.4	52.9	51.5	63.8	5.0	68.8
	20	62.7	70.6	49.4	70.3	69.9	67.6	66.5	64.0	61.0	52.5	50.9	49.6	62.7	5.0	67.7
	21	60.8	68.3	49.7	68.0	67.7	66.4	65.3	62.2	58.1	51.0	50.4	49.8	60.8	5.0	65.8
Night	22	59.6	69.7	44.6	69.3	68.6	66.4	64.9	59.7	54.5	46.6	45.5	44.8	59.6	10.0	69.6
	23	55.0	64.7	37.0	64.5	64.0	62.4	61.1	54.8	47.2	38.9	37.8	37.1	55.0	10.0	65.0

Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%
Day	Min	60.8	68.3	49.4	68.0	67.6	66.4	65.3	62.2	58.1	51.0	50.4	49.6
	Max	69.8	77.1	58.9	76.9	76.4	75.4	74.3	71.1	67.6	60.7	59.8	59.1
Energy Average		64.3	Average:		70.3	69.9	68.4	67.4	64.9	62.0	55.5	54.3	53.3
Night	Min	48.0	58.0	37.0	57.7	57.4	55.6	53.6	45.4	42.6	38.9	37.8	37.1
	Max	60.9	73.3	50.7	72.8	71.7	68.8	65.1	62.0	58.8	52.7	51.8	50.9
Energy Average		56.9	Average:		64.2	63.6	61.8	60.0	53.5	49.0	44.5	44.0	43.5

24-Hour CNEL	Leq (dBA) Daytime (7am-10pm)	Leq (dBA) Nighttime (10pm-7am)
66.0	**64.3**	**56.9**

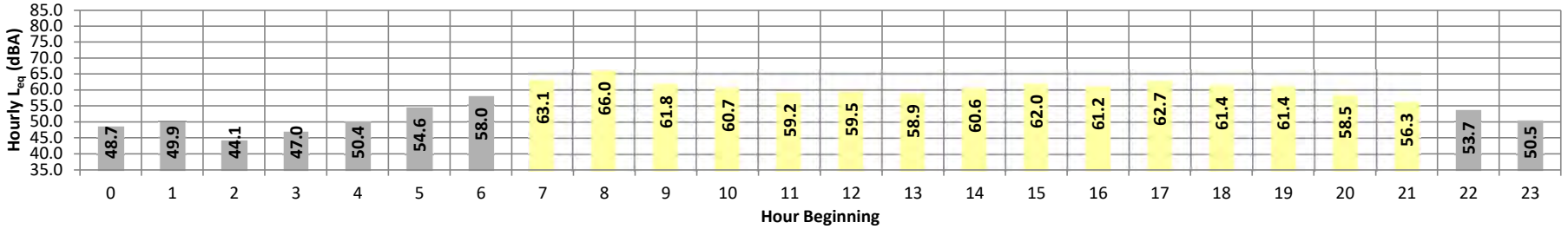
URBAN CROSSROADS

24-Hour Noise Level Measurement Summary

Date: Tuesday, March 25, 2025 | *Location:* L3 - Located south of the site near the residence at 7123 | *Meter:* Piccolo II | *JN:* 13448

Project: Summer Place | *Source:* Cottage Grove Dr | *Analyst:* Z. Ibrahim

Hourly L_{eq} dBA Readings (unadjusted)



Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%	L_{eq}	Adj.	Adj. L_{eq}
Night	0	48.7	59.5	38.3	59.1	58.6	57.0	55.0	45.4	41.0	38.9	38.7	38.4	48.7	10.0	58.7
	1	49.9	59.5	40.5	59.2	58.8	57.5	56.2	47.9	43.3	41.2	40.9	40.6	49.9	10.0	59.9
	2	44.1	52.8	38.8	52.4	52.1	50.8	49.0	42.3	40.8	39.4	39.1	38.9	44.1	10.0	54.1
	3	47.0	56.3	39.7	55.9	55.6	54.3	52.6	45.4	42.7	40.3	40.1	39.8	47.0	10.0	57.0
	4	50.4	60.3	43.1	59.9	59.3	57.4	55.8	48.9	46.0	43.7	43.5	43.2	50.4	10.0	60.4
	5	54.6	64.1	43.2	63.7	63.3	62.3	60.7	53.6	48.2	44.0	43.7	43.3	54.6	10.0	64.6
	6	58.0	66.3	44.5	66.0	65.6	64.7	63.6	58.9	52.8	46.1	45.3	44.7	58.0	10.0	68.0
Day	7	63.1	69.6	52.3	69.3	68.9	68.0	67.1	64.6	61.5	54.8	53.5	52.7	63.1	0.0	63.1
	8	66.0	70.7	60.2	70.4	70.2	69.4	69.0	67.2	65.2	61.7	61.0	60.4	66.0	0.0	66.0
	9	61.8	69.4	52.3	69.1	68.7	67.6	66.5	62.8	58.7	53.5	52.9	52.4	61.8	0.0	61.8
	10	60.7	69.9	48.3	69.6	69.1	67.7	66.0	60.9	56.1	49.6	49.0	48.4	60.7	0.0	60.7
	11	59.2	67.9	46.1	67.6	67.2	65.5	64.2	60.2	55.0	47.9	47.1	46.3	59.2	0.0	59.2
	12	59.5	68.1	45.6	67.8	67.4	65.8	64.5	60.6	55.1	47.5	46.6	45.8	59.5	0.0	59.5
	13	58.9	67.7	43.4	67.5	67.1	65.5	64.2	59.9	54.2	45.1	44.3	43.6	58.9	0.0	58.9
	14	60.6	69.0	47.2	68.7	68.2	66.6	65.4	61.6	57.5	49.0	48.0	47.4	60.6	0.0	60.6
	15	62.0	72.9	47.0	72.6	71.8	68.6	66.1	61.8	57.7	48.8	47.8	47.2	62.0	0.0	62.0
	16	61.2	69.9	47.4	69.7	69.2	67.3	65.7	62.3	58.1	49.6	48.7	47.6	61.2	0.0	61.2
	17	62.7	74.9	47.2	73.8	72.8	68.9	66.2	62.2	58.4	49.5	48.2	47.4	62.7	0.0	62.7
	18	61.4	70.2	47.4	69.8	69.3	67.3	65.9	62.6	58.2	50.1	48.7	47.6	61.4	0.0	61.4
	19	61.4	73.1	42.8	72.2	71.2	67.8	65.7	61.3	55.9	45.2	44.0	43.0	61.4	5.0	66.4
	20	58.5	67.3	41.2	67.0	66.6	65.2	64.1	59.3	53.3	44.2	42.8	41.4	58.5	5.0	63.5
	21	56.3	65.8	38.9	65.5	65.1	63.5	62.1	56.4	48.9	40.0	39.4	38.9	56.3	5.0	61.3
Night	22	53.7	63.8	35.3	63.4	63.0	61.5	60.1	52.5	43.5	36.6	35.9	35.4	53.7	10.0	63.7
	23	50.5	61.1	32.6	60.7	60.4	58.9	57.3	47.4	38.6	33.2	32.9	32.6	50.5	10.0	60.5

Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%
Day	Min	56.3	65.8	38.9	65.5	65.1	63.5	62.1	56.4	48.9	40.0	39.4	38.9
	Max	66.0	74.9	60.2	73.8	72.8	69.4	69.0	67.2	65.2	61.7	61.0	60.4
Energy Average		61.5	Average:		69.4	68.9	67.0	65.5	61.6	56.9	49.1	48.1	47.3
Night	Min	44.1	52.8	32.6	52.4	52.1	50.8	49.0	42.3	38.6	33.2	32.9	32.6
	Max	58.0	66.3	44.5	66.0	65.6	64.7	63.6	58.9	52.8	46.1	45.3	44.7
Energy Average		52.5	Average:		60.0	59.6	58.3	56.7	49.1	44.1	40.4	40.0	39.7

24-Hour CNEL	Leq (dBA) Daytime (7am-10pm)	Leq (dBA) Nighttime (10pm-7am)
62.5	**61.5**	**52.5**

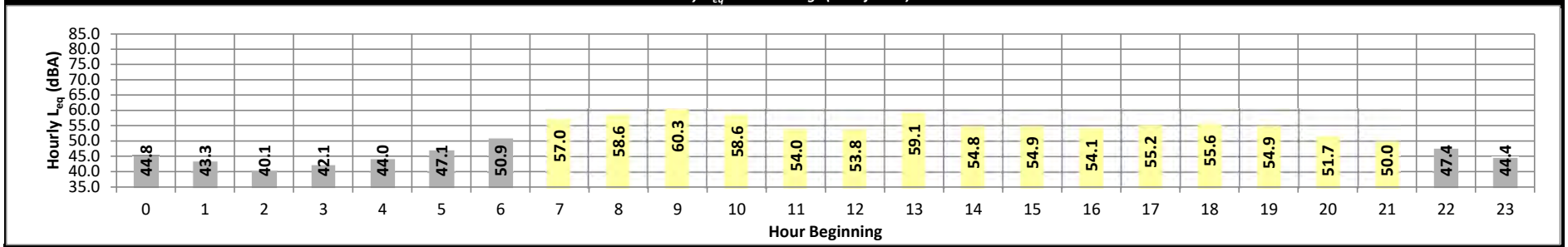
URBAN CROSSROADS

24-Hour Noise Level Measurement Summary

Date: Tuesday, March 25, 2025 *Location:* L4 - Located east of the site near the residence at 7059 Gale Ln *Meter:* Piccolo II *JN:* 13448

Project: Summer Place *Source:* *Analyst:* Z. Ibrahim

Hourly L_{eq} dBA Readings (unadjusted)



Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%	L_{eq}	Adj.	Adj. L_{eq}
Night	0	44.8	54.4	40.9	54.0	53.3	49.9	47.5	43.7	42.5	41.6	41.3	41.0	44.8	10.0	54.8
	1	43.3	51.4	40.2	50.9	50.5	47.8	46.1	42.9	41.7	40.7	40.5	40.3	43.3	10.0	53.3
	2	40.1	44.1	38.7	43.9	43.7	42.4	41.5	40.4	39.7	39.0	38.9	38.8	40.1	10.0	50.1
	3	42.1	51.4	38.5	51.0	50.4	47.8	45.2	40.9	39.6	38.8	38.7	38.5	42.1	10.0	52.1
	4	44.0	51.4	41.9	51.0	50.3	47.3	45.6	43.7	43.0	42.2	42.1	41.9	44.0	10.0	54.0
	5	47.1	57.3	42.1	57.0	56.3	53.0	50.8	45.7	43.8	42.5	42.4	42.2	47.1	10.0	57.1
	6	50.9	60.8	41.4	60.5	60.0	57.9	56.4	50.4	45.5	42.1	41.8	41.5	50.9	10.0	60.9
Day	7	57.0	65.6	46.1	65.1	64.5	63.0	62.0	57.6	53.7	48.1	47.2	46.4	57.0	0.0	57.0
	8	58.6	66.0	48.0	65.7	65.2	64.1	63.1	59.6	56.1	50.4	49.0	48.2	58.6	0.0	58.6
	9	60.3	66.1	55.5	65.8	65.5	64.0	63.1	61.2	59.4	56.8	56.3	55.8	60.3	0.0	60.3
	10	58.6	66.7	52.2	66.2	65.6	63.6	62.4	58.9	56.6	53.5	53.0	52.4	58.6	0.0	58.6
	11	54.0	63.0	45.1	62.6	62.1	60.0	58.8	54.3	50.2	46.1	45.7	45.2	54.0	0.0	54.0
	12	53.8	63.2	45.3	62.7	62.0	59.8	58.7	54.2	49.8	46.2	45.8	45.5	53.8	0.0	53.8
	13	59.1	64.5	54.5	64.2	63.9	62.7	61.7	59.6	58.3	56.0	55.5	54.7	59.1	0.0	59.1
	14	54.8	63.5	46.7	63.2	62.6	60.5	59.2	55.4	51.9	47.8	47.3	46.8	54.8	0.0	54.8
	15	54.9	63.9	44.5	63.4	62.8	60.9	59.7	55.5	51.2	45.7	45.1	44.6	54.9	0.0	54.9
	16	54.1	63.3	43.4	62.8	62.2	60.3	59.0	54.7	50.2	44.8	44.2	43.6	54.1	0.0	54.1
	17	55.2	65.1	43.9	64.7	64.0	61.7	60.1	55.3	51.1	45.4	44.6	44.0	55.2	0.0	55.2
	18	55.6	65.3	42.3	64.6	63.9	62.3	60.9	55.9	50.8	43.9	43.1	42.4	55.6	0.0	55.6
	19	54.9	65.9	40.0	65.4	64.6	62.0	59.9	54.2	48.6	41.9	41.2	40.2	54.9	5.0	59.9
	20	51.7	61.9	37.8	61.6	60.9	58.8	57.2	51.4	45.1	38.9	38.4	37.9	51.7	5.0	56.7
	21	50.0	60.3	37.3	60.0	59.4	57.4	55.7	49.0	42.8	38.0	37.7	37.4	50.0	5.0	55.0
Night	22	47.4	58.7	35.7	58.3	57.6	54.9	53.1	45.4	39.0	36.2	36.0	35.8	47.4	10.0	57.4
	23	44.4	56.1	34.5	55.8	55.1	52.3	49.7	40.9	36.1	34.8	34.7	34.6	44.4	10.0	54.4

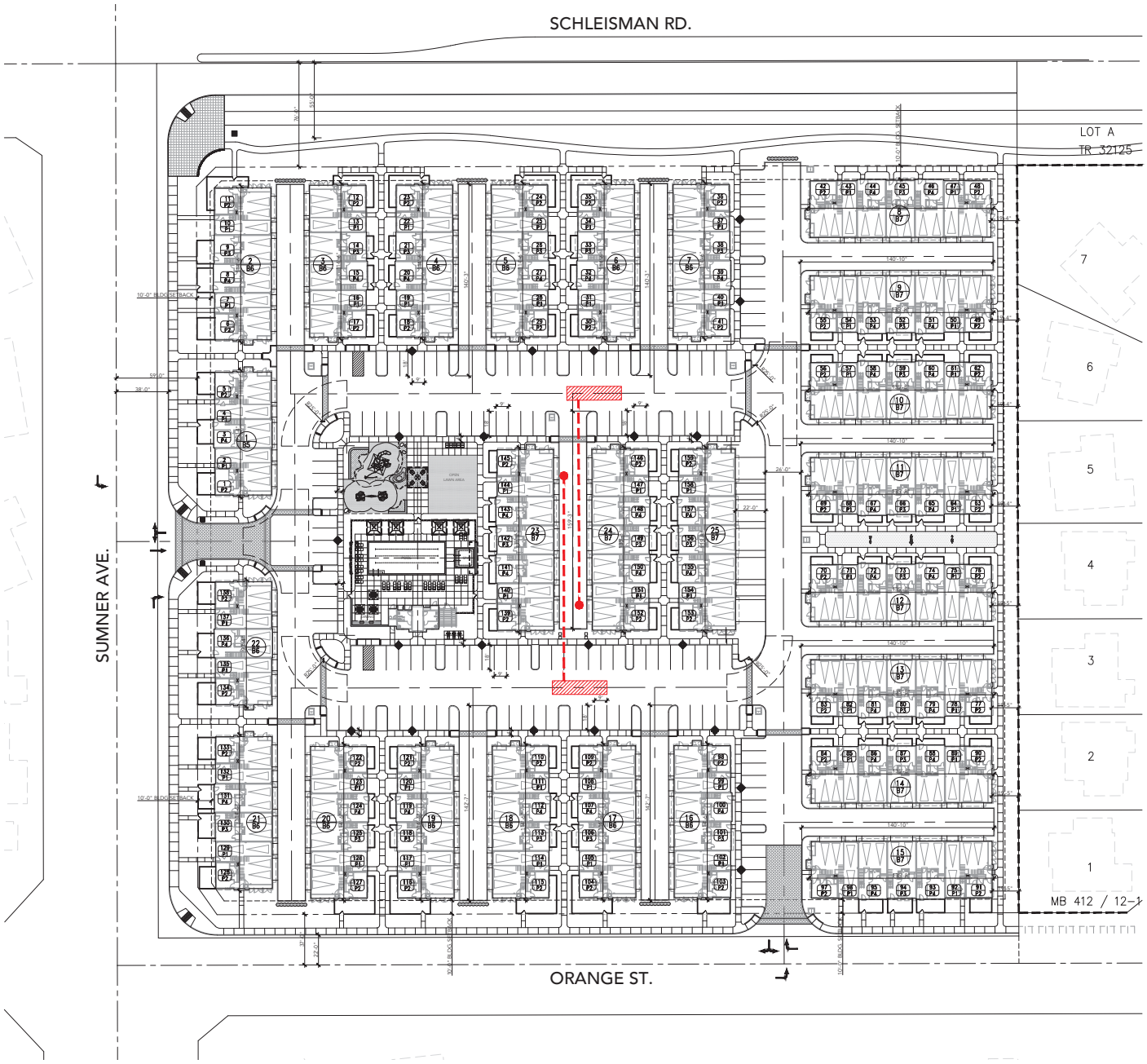
Timeframe	Hour	L_{eq}	L_{max}	L_{min}	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%
Day	Min	50.0	60.3	37.3	60.0	59.4	57.4	55.7	49.0	42.8	38.0	37.7	37.4
	Max	60.3	66.7	55.5	66.2	65.6	64.1	63.1	61.2	59.4	56.8	56.3	55.8
Energy Average		56.3	Average:		63.9	63.3	61.4	60.1	55.8	51.7	46.9	46.3	45.7
Night	Min	40.1	44.1	34.5	43.9	43.7	42.4	41.5	40.4	36.1	34.8	34.7	34.6
	Max	50.9	60.8	42.1	60.5	60.0	57.9	56.4	50.4	45.5	42.5	42.4	42.2
Energy Average		46.0	Average:		53.6	53.0	50.4	48.4	43.8	41.2	39.8	39.6	39.4

24-Hour CNEL	Leq (dBA) Daytime (7am-10pm)	Leq (dBA) Nighttime (10pm-7am)
56.7	**56.3**	**46.0**

APPENDIX 6.1:

SITE PLAN

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23-002 SUMNER PLACE

SITE SUMMARY

Unit Count:	158	units (Attached Single-Family Townhome)
Net Site Area:	7.54	ac
Gross Site Area:	10.00	ac
Net Density:	20.96	du/ac
Gross Density:	15.80	du/ac
Total Buildable SF:	259,532	sf

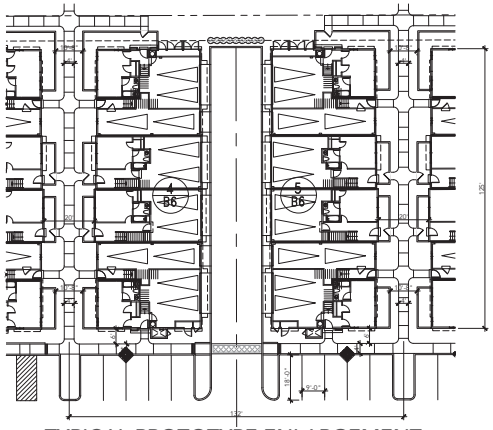
UNIT SUMMARY

Plan Type	S.F.	Bed/Bath	Garage	Stories	# units	% of total	Buildable SF
UA SPLIT (ATTACHED SINGLE-FAMILY TOWNHOMES)							
Plan 1	1,307	2/2.5	2-tandem	3	50	32%	65,350
Plan 2	1,480	3/3.5	2-std	3	50	32%	74,000
Plan 3	2,019	4/3.5	2-std	3	23	15%	46,437
Plan 3	2,107	4/3.5	2-std	3	35	22%	73,745
				Total	158	100%	259,532

PARKING SUMMARY

			Spaces required
MIN. PARKING REQUIRED (Sec. 120.05.060. - Off-Street parking)			
UA SPLIT (ATTACHED SINGLE-FAMILY TOWNHOMES)			
(PRD - 2+ bedroom)	2.5 spaces/unit	158 units	395 spaces
			395 spaces

	Spaces provided
PARKING PROVIDED	
UA SPLIT (ATTACHED SINGLE-FAMILY TOWNHOMES)	
Garage - tandem	100 spaces
Garage - std	216 spaces
Street Parking	139 spaces
Private Driveway	12 spaces
Total Prov'd	467 spaces.



TYPICAL PROTOTYPE ENLARGEMENT

150' HOSE PULL DISTANCE

FIRE TRUCK

SUMNER PLACE

EASTVALE | CA

STRATHAM HOMES | 23-060

DATE 03 | 13 | 25

1"=30'-0" SCALE

0 30 60

NORTH

CONCEPTUAL SITE PLAN | SP1

URBAN ARENA

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APPENDIX 7.1:

ON-SITE TRAFFIC NOISE LEVEL CALCULATIONS

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FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (CALVENO) - 10/1/2012

Scenario: Backyard No Wall
Road Name: Schleisman Rd.
Lot No: Building 3-7

Project Name: Sumner Place
Job Number: 13448
Analyst: N. Johnson

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	33,950 vehicles
Peak Hour Percentage:	10%
Peak Hour Volume:	3,395 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	67 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	88.0 feet
Centerline Dist. to Observer:	94.0 feet
Barrier Distance to Observer:	6.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	614.0 feet
Road Elevation:	612.4 feet
Barrier Elevation:	614.0 feet
Road Grade:	0.0%

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	77.5%	12.9%	9.6%	97.42%
Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Heavy Trucks:	86.5%	2.7%	10.8%	0.74%

Noise Source Elevations (in feet)

Autos:	612.370		
Medium Trucks:	614.667		
Heavy Trucks:	620.376	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	88.078
Medium Trucks:	87.935
Heavy Trucks:	87.839

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	69.34	3.36	-3.79	-1.20	*-1.56*	0.000	0.000
Medium Trucks:	77.62	-13.88	-3.78	-1.20	*-1.68*	0.000	0.000
Heavy Trucks:	82.14	-17.84	-3.77	-1.20	*-1.99*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.7	65.8	64.0	58.0	66.6	67.2
Medium Trucks:	58.8	57.3	50.9	49.3	57.8	58.0
Heavy Trucks:	59.3	57.9	48.9	50.1	58.5	58.6
Vehicle Noise:	68.8	67.0	64.4	59.1	67.7	68.2

Mitigated Noise Levels (with Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.7	65.8	64.0	58.0	66.6	67.2
Medium Trucks:	58.8	57.3	50.9	49.3	57.8	58.0
Heavy Trucks:	59.3	57.9	48.9	50.1	58.5	58.6
Vehicle Noise:	68.8	67.0	64.4	59.1	67.7	68.2

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (CALVENO) - 10/1/2012

Scenario: Backyard No Wall
Road Name: Schleisman Rd.
Lot No: Building 8

Project Name: Sumner Place
Job Number: 13448
Analyst: N. Johnson

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	33,950 vehicles
Peak Hour Percentage:	10%
Peak Hour Volume:	3,395 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	67 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	77.0 feet
Centerline Dist. to Observer:	86.0 feet
Barrier Distance to Observer:	9.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	616.3 feet
Road Elevation:	615.1 feet
Barrier Elevation:	616.3 feet
Road Grade:	0.0%

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	77.5%	12.9%	9.6%	97.42%
Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Heavy Trucks:	86.5%	2.7%	10.8%	0.74%

Noise Source Elevations (in feet)

Autos:	615.140		
Medium Trucks:	617.437		
Heavy Trucks:	623.146	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	79.446
Medium Trucks:	79.301
Heavy Trucks:	79.229

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	69.34	3.36	-3.12	-1.20	*-1.06*	0.000	0.000
Medium Trucks:	77.62	-13.88	-3.11	-1.20	*-1.19*	0.000	0.000
Heavy Trucks:	82.14	-17.84	-3.10	-1.20	*-1.55*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	68.4	66.5	64.7	58.7	67.3	67.9
Medium Trucks:	59.4	57.9	51.6	50.0	58.5	58.7
Heavy Trucks:	60.0	58.6	49.5	50.8	59.1	59.3
Vehicle Noise:	69.4	67.6	65.0	59.8	68.4	68.9

Mitigated Noise Levels (with Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	68.4	66.5	64.7	58.7	67.3	67.9
Medium Trucks:	59.4	57.9	51.6	50.0	58.5	58.7
Heavy Trucks:	60.0	58.6	49.5	50.8	59.1	59.3
Vehicle Noise:	69.4	67.6	65.0	59.8	68.4	68.9

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (CALVENO) - 10/1/2012

Scenario: Backyard No Wall
Road Name: Sumner Ave.
Lot No: Building 1, 2

Project Name: Sumner Place
Job Number: 13448
Analyst: N. Johnson

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	21,490 vehicles
Peak Hour Percentage:	10%
Peak Hour Volume:	2,149 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	66 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	62.0 feet
Centerline Dist. to Observer:	73.0 feet
Barrier Distance to Observer:	11.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	611.2 feet
Road Elevation:	609.5 feet
Barrier Elevation:	611.2 feet
Road Grade:	0.0%

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	77.5%	12.9%	9.6%	97.42%
Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Heavy Trucks:	86.5%	2.7%	10.8%	0.74%

Noise Source Elevations (in feet)

Autos:	609.500		
Medium Trucks:	611.797		
Heavy Trucks:	617.506	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	65.461
Medium Trucks:	65.265
Heavy Trucks:	65.128

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	69.34	1.37	-1.86	-1.20	*-0.79*	0.000	0.000
Medium Trucks:	77.62	-15.87	-1.84	-1.20	*-0.94*	0.000	0.000
Heavy Trucks:	82.14	-19.82	-1.83	-1.20	*-1.37*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.7	65.8	64.0	57.9	66.6	67.2
Medium Trucks:	58.7	57.2	50.8	49.3	57.8	58.0
Heavy Trucks:	59.3	57.9	48.8	50.1	58.4	58.6
Vehicle Noise:	68.7	66.9	64.3	59.1	67.7	68.2

Mitigated Noise Levels (with Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.7	65.8	64.0	57.9	66.6	67.2
Medium Trucks:	58.7	57.2	50.8	49.3	57.8	58.0
Heavy Trucks:	59.3	57.9	48.8	50.1	58.4	58.6
Vehicle Noise:	68.7	66.9	64.3	59.1	67.7	68.2

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (CALVENO) - 10/1/2012

Scenario: Backyard No Wall
Road Name: Sumner Ave.
Lot No: Building 21, 22

Project Name: Sumner Place
Job Number: 13448
Analyst: N. Johnson

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	21,490 vehicles
Peak Hour Percentage:	10%
Peak Hour Volume:	2,149 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	66 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	62.0 feet
Centerline Dist. to Observer:	74.0 feet
Barrier Distance to Observer:	12.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	608.4 feet
Road Elevation:	607.4 feet
Barrier Elevation:	608.4 feet
Road Grade:	0.0%

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	77.5%	12.9%	9.6%	97.42%
Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Heavy Trucks:	86.5%	2.7%	10.8%	0.74%

Noise Source Elevations (in feet)

Autos:	607.400		
Medium Trucks:	609.697		
Heavy Trucks:	615.406	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	66.507
Medium Trucks:	66.339
Heavy Trucks:	66.264

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	69.34	1.37	-1.96	-1.20	*-0.75*	0.000	0.000
Medium Trucks:	77.62	-15.87	-1.95	-1.20	*-0.91*	0.000	0.000
Heavy Trucks:	82.14	-19.82	-1.94	-1.20	*-1.35*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.6	65.7	63.9	57.8	66.5	67.1
Medium Trucks:	58.6	57.1	50.7	49.2	57.7	57.9
Heavy Trucks:	59.2	57.8	48.7	50.0	58.3	58.5
Vehicle Noise:	68.6	66.8	64.2	59.0	67.5	68.1

Mitigated Noise Levels (with Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.6	65.7	63.9	57.8	66.5	67.1
Medium Trucks:	58.6	57.1	50.7	49.2	57.7	57.9
Heavy Trucks:	59.2	57.8	48.7	50.0	58.3	58.5
Vehicle Noise:	68.6	66.8	64.2	59.0	67.5	68.1

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (CALVENO) - 10/1/2012

Scenario: Backyard With Wall
Road Name: Schleisman Rd.
Lot No: Building 3-7

Project Name: Sumner Place
Job Number: 13448
Analyst: N. Johnson

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	33,950 vehicles
Peak Hour Percentage:	10%
Peak Hour Volume:	3,395 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	67 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	88.0 feet
Centerline Dist. to Observer:	94.0 feet
Barrier Distance to Observer:	6.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	614.0 feet
Road Elevation:	612.4 feet
Barrier Elevation:	614.0 feet
Road Grade:	0.0%

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	77.5%	12.9%	9.6%	97.42%
Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Heavy Trucks:	86.5%	2.7%	10.8%	0.74%

Noise Source Elevations (in feet)

Autos:	612.370		
Medium Trucks:	614.667		
Heavy Trucks:	620.376	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	88.078
Medium Trucks:	87.935
Heavy Trucks:	87.839

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	69.34	3.36	-3.79	-1.20	*-1.56*	0.000	0.000
Medium Trucks:	77.62	-13.88	-3.78	-1.20	*-1.68*	0.000	0.000
Heavy Trucks:	82.14	-17.84	-3.77	-1.20	*-1.99*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.7	65.8	64.0	58.0	66.6	67.2
Medium Trucks:	58.8	57.3	50.9	49.3	57.8	58.0
Heavy Trucks:	59.3	57.9	48.9	50.1	58.5	58.6
Vehicle Noise:	68.8	67.0	64.4	59.1	67.7	68.2

Mitigated Noise Levels (with Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.7	65.8	64.0	58.0	66.6	67.2
Medium Trucks:	58.8	57.3	50.9	49.3	57.8	58.0
Heavy Trucks:	59.3	57.9	48.9	50.1	58.5	58.6
Vehicle Noise:	68.8	67.0	64.4	59.1	67.7	68.2

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (CALVENO) - 10/1/2012

Scenario: Backyard With Wall
Road Name: Schleisman Rd.
Lot No: Building 8

Project Name: Sumner Place
Job Number: 13448
Analyst: N. Johnson

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	33,950 vehicles
Peak Hour Percentage:	10%
Peak Hour Volume:	3,395 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	67 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	77.0 feet
Centerline Dist. to Observer:	86.0 feet
Barrier Distance to Observer:	9.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	616.3 feet
Road Elevation:	615.1 feet
Barrier Elevation:	616.3 feet
Road Grade:	0.0%

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	77.5%	12.9%	9.6%	97.42%
Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Heavy Trucks:	86.5%	2.7%	10.8%	0.74%

Noise Source Elevations (in feet)

Autos:	615.140		
Medium Trucks:	617.437		
Heavy Trucks:	623.146	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	79.446
Medium Trucks:	79.301
Heavy Trucks:	79.229

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	69.34	3.36	-3.12	-1.20	*-1.06*	0.000	0.000
Medium Trucks:	77.62	-13.88	-3.11	-1.20	*-1.19*	0.000	0.000
Heavy Trucks:	82.14	-17.84	-3.10	-1.20	*-1.55*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	68.4	66.5	64.7	58.7	67.3	67.9
Medium Trucks:	59.4	57.9	51.6	50.0	58.5	58.7
Heavy Trucks:	60.0	58.6	49.5	50.8	59.1	59.3
Vehicle Noise:	69.4	67.6	65.0	59.8	68.4	68.9

Mitigated Noise Levels (with Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	68.4	66.5	64.7	58.7	67.3	67.9
Medium Trucks:	59.4	57.9	51.6	50.0	58.5	58.7
Heavy Trucks:	60.0	58.6	49.5	50.8	59.1	59.3
Vehicle Noise:	69.4	67.6	65.0	59.8	68.4	68.9

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (CALVENO) - 10/1/2012

Scenario: Backyard With Wall
Road Name: Sumner Ave.
Lot No: Building 1, 2

Project Name: Sumner Place
Job Number: 13448
Analyst: N. Johnson

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	21,490 vehicles
Peak Hour Percentage:	10%
Peak Hour Volume:	2,149 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	66 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	62.0 feet
Centerline Dist. to Observer:	73.0 feet
Barrier Distance to Observer:	11.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	611.2 feet
Road Elevation:	609.5 feet
Barrier Elevation:	611.2 feet
Road Grade:	0.0%

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	77.5%	12.9%	9.6%	97.42%
Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Heavy Trucks:	86.5%	2.7%	10.8%	0.74%

Noise Source Elevations (in feet)

Autos:	609.500		
Medium Trucks:	611.797		
Heavy Trucks:	617.506	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	65.461
Medium Trucks:	65.265
Heavy Trucks:	65.128

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	69.34	1.37	-1.86	-1.20	*-0.79*	0.000	0.000
Medium Trucks:	77.62	-15.87	-1.84	-1.20	*-0.94*	0.000	0.000
Heavy Trucks:	82.14	-19.82	-1.83	-1.20	*-1.37*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.7	65.8	64.0	57.9	66.6	67.2
Medium Trucks:	58.7	57.2	50.8	49.3	57.8	58.0
Heavy Trucks:	59.3	57.9	48.8	50.1	58.4	58.6
Vehicle Noise:	68.7	66.9	64.3	59.1	67.7	68.2

Mitigated Noise Levels (with Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.7	65.8	64.0	57.9	66.6	67.2
Medium Trucks:	58.7	57.2	50.8	49.3	57.8	58.0
Heavy Trucks:	59.3	57.9	48.8	50.1	58.4	58.6
Vehicle Noise:	68.7	66.9	64.3	59.1	67.7	68.2

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (CALVENO) - 10/1/2012

Scenario: Backyard With Wall
Road Name: Sumner Ave.
Lot No: Building 21, 22

Project Name: Sumner Place
Job Number: 13448
Analyst: N. Johnson

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	21,490 vehicles
Peak Hour Percentage:	10%
Peak Hour Volume:	2,149 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	66 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	62.0 feet
Centerline Dist. to Observer:	74.0 feet
Barrier Distance to Observer:	12.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	608.4 feet
Road Elevation:	607.4 feet
Barrier Elevation:	608.4 feet
Road Grade:	0.0%

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	77.5%	12.9%	9.6%	97.42%
Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Heavy Trucks:	86.5%	2.7%	10.8%	0.74%

Noise Source Elevations (in feet)

Autos:	607.400		
Medium Trucks:	609.697		
Heavy Trucks:	615.406	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	66.507
Medium Trucks:	66.339
Heavy Trucks:	66.264

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	69.34	1.37	-1.96	-1.20	*-0.75*	0.000	0.000
Medium Trucks:	77.62	-15.87	-1.95	-1.20	*-0.91*	0.000	0.000
Heavy Trucks:	82.14	-19.82	-1.94	-1.20	*-1.35*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.6	65.7	63.9	57.8	66.5	67.1
Medium Trucks:	58.6	57.1	50.7	49.2	57.7	57.9
Heavy Trucks:	59.2	57.8	48.7	50.0	58.3	58.5
Vehicle Noise:	68.6	66.8	64.2	59.0	67.5	68.1

Mitigated Noise Levels (with Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.6	65.7	63.9	57.8	66.5	67.1
Medium Trucks:	58.6	57.1	50.7	49.2	57.7	57.9
Heavy Trucks:	59.2	57.8	48.7	50.0	58.3	58.5
Vehicle Noise:	68.6	66.8	64.2	59.0	67.5	68.1

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (CALVENO) - 10/1/2012

Scenario: First Floor With Wall
Road Name: Schleisman Rd.
Lot No: Building 3-7

Project Name: Sumner Place
Job Number: 13448
Analyst: N. Johnson

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	33,950 vehicles
Peak Hour Percentage:	10%
Peak Hour Volume:	3,395 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	67 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	88.0 feet
Centerline Dist. to Observer:	94.0 feet
Barrier Distance to Observer:	6.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	614.0 feet
Road Elevation:	612.4 feet
Barrier Elevation:	614.0 feet
Road Grade:	0.0%

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	77.5%	12.9%	9.6%	97.42%
Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Heavy Trucks:	86.5%	2.7%	10.8%	0.74%

Noise Source Elevations (in feet)

Autos:	612.370		
Medium Trucks:	614.667		
Heavy Trucks:	620.376	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	88.078
Medium Trucks:	87.935
Heavy Trucks:	87.839

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	69.34	3.36	-3.79	-1.20	*-1.56*	0.000	0.000
Medium Trucks:	77.62	-13.88	-3.78	-1.20	*-1.68*	0.000	0.000
Heavy Trucks:	82.14	-17.84	-3.77	-1.20	*-1.99*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.7	65.8	64.0	58.0	66.6	67.2
Medium Trucks:	58.8	57.3	50.9	49.3	57.8	58.0
Heavy Trucks:	59.3	57.9	48.9	50.1	58.5	58.6
Vehicle Noise:	68.8	67.0	64.4	59.1	67.7	68.2

Mitigated Noise Levels (with Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.7	65.8	64.0	58.0	66.6	67.2
Medium Trucks:	58.8	57.3	50.9	49.3	57.8	58.0
Heavy Trucks:	59.3	57.9	48.9	50.1	58.5	58.6
Vehicle Noise:	68.8	67.0	64.4	59.1	67.7	68.2

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (CALVENO) - 10/1/2012

Scenario: First Floor With Wall
Road Name: Schleisman Rd.
Lot No: Building 8

Project Name: Sumner Place
Job Number: 13448
Analyst: N. Johnson

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	33,950 vehicles
Peak Hour Percentage:	10%
Peak Hour Volume:	3,395 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	67 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	77.0 feet
Centerline Dist. to Observer:	86.0 feet
Barrier Distance to Observer:	9.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	616.3 feet
Road Elevation:	615.1 feet
Barrier Elevation:	616.3 feet
Road Grade:	0.0%

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	77.5%	12.9%	9.6%	97.42%
Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Heavy Trucks:	86.5%	2.7%	10.8%	0.74%

Noise Source Elevations (in feet)

Autos:	615.140		
Medium Trucks:	617.437		
Heavy Trucks:	623.146	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	79.446
Medium Trucks:	79.301
Heavy Trucks:	79.229

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	69.34	3.36	-3.12	-1.20	*-1.06*	0.000	0.000
Medium Trucks:	77.62	-13.88	-3.11	-1.20	*-1.19*	0.000	0.000
Heavy Trucks:	82.14	-17.84	-3.10	-1.20	*-1.55*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	68.4	66.5	64.7	58.7	67.3	67.9
Medium Trucks:	59.4	57.9	51.6	50.0	58.5	58.7
Heavy Trucks:	60.0	58.6	49.5	50.8	59.1	59.3
Vehicle Noise:	69.4	67.6	65.0	59.8	68.4	68.9

Mitigated Noise Levels (with Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	68.4	66.5	64.7	58.7	67.3	67.9
Medium Trucks:	59.4	57.9	51.6	50.0	58.5	58.7
Heavy Trucks:	60.0	58.6	49.5	50.8	59.1	59.3
Vehicle Noise:	69.4	67.6	65.0	59.8	68.4	68.9

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (CALVENO) - 10/1/2012

Scenario: First Floor With Wall
Road Name: Sumner Ave.
Lot No: Building 1, 2

Project Name: Sumner Place
Job Number: 13448
Analyst: N. Johnson

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	21,490 vehicles
Peak Hour Percentage:	10%
Peak Hour Volume:	2,149 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	66 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	62.0 feet
Centerline Dist. to Observer:	73.0 feet
Barrier Distance to Observer:	11.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	611.2 feet
Road Elevation:	609.5 feet
Barrier Elevation:	611.2 feet
Road Grade:	0.0%

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	77.5%	12.9%	9.6%	97.42%
Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Heavy Trucks:	86.5%	2.7%	10.8%	0.74%

Noise Source Elevations (in feet)

Autos:	609.500		
Medium Trucks:	611.797		
Heavy Trucks:	617.506	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	65.461
Medium Trucks:	65.265
Heavy Trucks:	65.128

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	69.34	1.37	-1.86	-1.20	*-0.79*	0.000	0.000
Medium Trucks:	77.62	-15.87	-1.84	-1.20	*-0.94*	0.000	0.000
Heavy Trucks:	82.14	-19.82	-1.83	-1.20	*-1.37*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.7	65.8	64.0	57.9	66.6	67.2
Medium Trucks:	58.7	57.2	50.8	49.3	57.8	58.0
Heavy Trucks:	59.3	57.9	48.8	50.1	58.4	58.6
Vehicle Noise:	68.7	66.9	64.3	59.1	67.7	68.2

Mitigated Noise Levels (with Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.7	65.8	64.0	57.9	66.6	67.2
Medium Trucks:	58.7	57.2	50.8	49.3	57.8	58.0
Heavy Trucks:	59.3	57.9	48.8	50.1	58.4	58.6
Vehicle Noise:	68.7	66.9	64.3	59.1	67.7	68.2

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (CALVENO) - 10/1/2012

Scenario: First Floor With Wall
Road Name: Sumner Ave.
Lot No: Building 21, 22

Project Name: Sumner Place
Job Number: 13448
Analyst: N. Johnson

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	21,490 vehicles
Peak Hour Percentage:	10%
Peak Hour Volume:	2,149 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	66 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	62.0 feet
Centerline Dist. to Observer:	74.0 feet
Barrier Distance to Observer:	12.0 feet
Observer Height (Above Pad):	5.0 feet
Pad Elevation:	608.4 feet
Road Elevation:	607.4 feet
Barrier Elevation:	608.4 feet
Road Grade:	0.0%

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	77.5%	12.9%	9.6%	97.42%
Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Heavy Trucks:	86.5%	2.7%	10.8%	0.74%

Noise Source Elevations (in feet)

Autos:	607.400		
Medium Trucks:	609.697		
Heavy Trucks:	615.406	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	66.507
Medium Trucks:	66.339
Heavy Trucks:	66.264

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	69.34	1.37	-1.96	-1.20	*-0.75*	0.000	0.000
Medium Trucks:	77.62	-15.87	-1.95	-1.20	*-0.91*	0.000	0.000
Heavy Trucks:	82.14	-19.82	-1.94	-1.20	*-1.35*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.6	65.7	63.9	57.8	66.5	67.1
Medium Trucks:	58.6	57.1	50.7	49.2	57.7	57.9
Heavy Trucks:	59.2	57.8	48.7	50.0	58.3	58.5
Vehicle Noise:	68.6	66.8	64.2	59.0	67.5	68.1

Mitigated Noise Levels (with Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.6	65.7	63.9	57.8	66.5	67.1
Medium Trucks:	58.6	57.1	50.7	49.2	57.7	57.9
Heavy Trucks:	59.2	57.8	48.7	50.0	58.3	58.5
Vehicle Noise:	68.6	66.8	64.2	59.0	67.5	68.1

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (CALVENO) - 10/1/2012

Scenario: Second Floor With Wall
Road Name: Schleisman Rd.
Lot No: Building 3-7

Project Name: Sumner Place
Job Number: 13448
Analyst: N. Johnson

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	33,950 vehicles
Peak Hour Percentage:	10%
Peak Hour Volume:	3,395 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	67 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	88.0 feet
Centerline Dist. to Observer:	94.0 feet
Barrier Distance to Observer:	6.0 feet
Observer Height (Above Pad):	14.0 feet
Pad Elevation:	614.0 feet
Road Elevation:	612.4 feet
Barrier Elevation:	614.0 feet
Road Grade:	0.0%

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	77.5%	12.9%	9.6%	97.42%
Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Heavy Trucks:	86.5%	2.7%	10.8%	0.74%

Noise Source Elevations (in feet)

Autos:	612.370		
Medium Trucks:	614.667		
Heavy Trucks:	620.376	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	89.208
Medium Trucks:	88.834
Heavy Trucks:	88.158

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	69.34	3.36	-3.87	-1.20	*-7.78*	0.000	0.000
Medium Trucks:	77.62	-13.88	-3.85	-1.20	*-8.11*	0.000	0.000
Heavy Trucks:	82.14	-17.84	-3.80	-1.20	*-8.96*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.6	65.7	64.0	57.9	66.5	67.1
Medium Trucks:	58.7	57.2	50.8	49.3	57.7	58.0
Heavy Trucks:	59.3	57.9	48.8	50.1	58.5	58.6
Vehicle Noise:	68.7	66.9	64.3	59.1	67.6	68.1

Mitigated Noise Levels (with Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.6	65.7	64.0	57.9	66.5	67.1
Medium Trucks:	58.7	57.2	50.8	49.3	57.7	58.0
Heavy Trucks:	59.3	57.9	48.8	50.1	58.5	58.6
Vehicle Noise:	68.7	66.9	64.3	59.1	67.6	68.1

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (CALVENO) - 10/1/2012

Scenario: Second Floor With Wall
Road Name: Schleisman Rd.
Lot No: Building 8

Project Name: Sumner Place
Job Number: 13448
Analyst: N. Johnson

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	33,950 vehicles
Peak Hour Percentage:	10%
Peak Hour Volume:	3,395 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	67 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	77.0 feet
Centerline Dist. to Observer:	86.0 feet
Barrier Distance to Observer:	9.0 feet
Observer Height (Above Pad):	14.0 feet
Pad Elevation:	616.3 feet
Road Elevation:	615.1 feet
Barrier Elevation:	616.3 feet
Road Grade:	0.0%

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	77.5%	12.9%	9.6%	97.42%
Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Heavy Trucks:	86.5%	2.7%	10.8%	0.74%

Noise Source Elevations (in feet)

Autos:	615.140		
Medium Trucks:	617.437		
Heavy Trucks:	623.146	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	80.645
Medium Trucks:	80.245
Heavy Trucks:	79.529

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	69.34	3.36	-3.22	-1.20	*-6.19*	0.000	0.000
Medium Trucks:	77.62	-13.88	-3.19	-1.20	*-6.55*	0.000	0.000
Heavy Trucks:	82.14	-17.84	-3.13	-1.20	*-7.48*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	68.3	66.4	64.6	58.6	67.2	67.8
Medium Trucks:	59.4	57.8	51.5	49.9	58.4	58.6
Heavy Trucks:	60.0	58.6	49.5	50.8	59.1	59.3
Vehicle Noise:	69.3	67.5	65.0	59.7	68.3	68.8

Mitigated Noise Levels (with Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	68.3	66.4	64.6	58.6	67.2	67.8
Medium Trucks:	59.4	57.8	51.5	49.9	58.4	58.6
Heavy Trucks:	60.0	58.6	49.5	50.8	59.1	59.3
Vehicle Noise:	69.3	67.5	65.0	59.7	68.3	68.8

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (CALVENO) - 10/1/2012

Scenario: Second Floor With Wall
Road Name: Sumner Ave.
Lot No: Building 1, 2

Project Name: Sumner Place
Job Number: 13448
Analyst: N. Johnson

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	21,490 vehicles
Peak Hour Percentage:	10%
Peak Hour Volume:	2,149 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	66 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	62.0 feet
Centerline Dist. to Observer:	73.0 feet
Barrier Distance to Observer:	11.0 feet
Observer Height (Above Pad):	14.0 feet
Pad Elevation:	611.2 feet
Road Elevation:	609.5 feet
Barrier Elevation:	611.2 feet
Road Grade:	0.0%

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	77.5%	12.9%	9.6%	97.42%
Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Heavy Trucks:	86.5%	2.7%	10.8%	0.74%

Noise Source Elevations (in feet)

Autos:	609.500		
Medium Trucks:	611.797		
Heavy Trucks:	617.506	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	66.986
Medium Trucks:	66.484
Heavy Trucks:	65.571

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	69.34	1.37	-2.01	-1.20	*-5.06*	0.000	0.000
Medium Trucks:	77.62	-15.87	-1.96	-1.20	*-5.48*	0.000	0.000
Heavy Trucks:	82.14	-19.82	-1.87	-1.20	*-6.59*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.5	65.6	63.8	57.8	66.4	67.0
Medium Trucks:	58.6	57.1	50.7	49.2	57.6	57.9
Heavy Trucks:	59.2	57.8	48.8	50.0	58.4	58.5
Vehicle Noise:	68.6	66.8	64.2	58.9	67.5	68.0

Mitigated Noise Levels (with Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.5	65.6	63.8	57.8	66.4	67.0
Medium Trucks:	58.6	57.1	50.7	49.2	57.6	57.9
Heavy Trucks:	59.2	57.8	48.8	50.0	58.4	58.5
Vehicle Noise:	68.6	66.8	64.2	58.9	67.5	68.0

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (CALVENO) - 10/1/2012

Scenario: Second Floor With Wall
Road Name: Sumner Ave.
Lot No: Building 21, 22

Project Name: Sumner Place
Job Number: 13448
Analyst: N. Johnson

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	21,490 vehicles
Peak Hour Percentage:	10%
Peak Hour Volume:	2,149 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	66 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	62.0 feet
Centerline Dist. to Observer:	74.0 feet
Barrier Distance to Observer:	12.0 feet
Observer Height (Above Pad):	14.0 feet
Pad Elevation:	608.4 feet
Road Elevation:	607.4 feet
Barrier Elevation:	608.4 feet
Road Grade:	0.0%

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	77.5%	12.9%	9.6%	97.42%
Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Heavy Trucks:	86.5%	2.7%	10.8%	0.74%

Noise Source Elevations (in feet)

Autos:	607.400		
Medium Trucks:	609.697		
Heavy Trucks:	615.406	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	67.916
Medium Trucks:	67.445
Heavy Trucks:	66.605

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	69.34	1.37	-2.10	-1.20	*-4.85*	0.000	0.000
Medium Trucks:	77.62	-15.87	-2.05	-1.20	*-5.27*	0.000	0.000
Heavy Trucks:	82.14	-19.82	-1.97	-1.20	*-6.38*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.4	65.5	63.8	57.7	66.3	66.9
Medium Trucks:	58.5	57.0	50.6	49.1	57.5	57.8
Heavy Trucks:	59.1	57.7	48.7	49.9	58.3	58.4
Vehicle Noise:	68.5	66.7	64.1	58.9	67.4	67.9

Mitigated Noise Levels (with Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.4	65.5	63.8	57.7	66.3	66.9
Medium Trucks:	58.5	57.0	50.6	49.1	57.5	57.8
Heavy Trucks:	59.1	57.7	48.7	49.9	58.3	58.4
Vehicle Noise:	68.5	66.7	64.1	58.9	67.4	67.9

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (CALVENO) - 10/1/2012

Scenario: Third Floor With Wall
Road Name: Schleisman Rd.
Lot No: Building 3-7

Project Name: Sumner Place
Job Number: 13448
Analyst: N. Johnson

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	33,950 vehicles
Peak Hour Percentage:	10%
Peak Hour Volume:	3,395 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	67 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	88.0 feet
Centerline Dist. to Observer:	94.0 feet
Barrier Distance to Observer:	6.0 feet
Observer Height (Above Pad):	23.0 feet
Pad Elevation:	614.0 feet
Road Elevation:	612.4 feet
Barrier Elevation:	614.0 feet
Road Grade:	0.0%

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	77.5%	12.9%	9.6%	97.42%
Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Heavy Trucks:	86.5%	2.7%	10.8%	0.74%

Noise Source Elevations (in feet)

Autos:	612.370		
Medium Trucks:	614.667		
Heavy Trucks:	620.376	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	91.216
Medium Trucks:	90.623
Heavy Trucks:	89.387

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	69.34	3.36	-4.02	-1.20	*-14.30*	0.000	0.000
Medium Trucks:	77.62	-13.88	-3.98	-1.20	*-14.83*	0.000	0.000
Heavy Trucks:	82.14	-17.84	-3.89	-1.20	*-16.18*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.5	65.6	63.8	57.8	66.4	67.0
Medium Trucks:	58.6	57.1	50.7	49.1	57.6	57.8
Heavy Trucks:	59.2	57.8	48.8	50.0	58.4	58.5
Vehicle Noise:	68.5	66.7	64.2	58.9	67.5	68.0

Mitigated Noise Levels (with Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.5	65.6	63.8	57.8	66.4	67.0
Medium Trucks:	58.6	57.1	50.7	49.1	57.6	57.8
Heavy Trucks:	59.2	57.8	48.8	50.0	58.4	58.5
Vehicle Noise:	68.5	66.7	64.2	58.9	67.5	68.0

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (CALVENO) - 10/1/2012

Scenario: Third Floor With Wall
Road Name: Schleisman Rd.
Lot No: Building 8

Project Name: Sumner Place
Job Number: 13448
Analyst: N. Johnson

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	33,950 vehicles
Peak Hour Percentage:	10%
Peak Hour Volume:	3,395 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	67 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	77.0 feet
Centerline Dist. to Observer:	86.0 feet
Barrier Distance to Observer:	9.0 feet
Observer Height (Above Pad):	23.0 feet
Pad Elevation:	616.3 feet
Road Elevation:	615.1 feet
Barrier Elevation:	616.3 feet
Road Grade:	0.0%

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	77.5%	12.9%	9.6%	97.42%
Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Heavy Trucks:	86.5%	2.7%	10.8%	0.74%

Noise Source Elevations (in feet)

Autos:	615.140		
Medium Trucks:	617.437		
Heavy Trucks:	623.146	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	82.810
Medium Trucks:	82.169
Heavy Trucks:	80.838

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	69.34	3.36	-3.39	-1.20	*-12.11*	0.000	0.000
Medium Trucks:	77.62	-13.88	-3.34	-1.20	*-12.69*	0.000	0.000
Heavy Trucks:	82.14	-17.84	-3.23	-1.20	*-14.18*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	68.1	66.2	64.4	58.4	67.0	67.6
Medium Trucks:	59.2	57.7	51.3	49.8	58.2	58.5
Heavy Trucks:	59.9	58.5	49.4	50.7	59.0	59.1
Vehicle Noise:	69.2	67.4	64.8	59.6	68.1	68.6

Mitigated Noise Levels (with Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	68.1	66.2	64.4	58.4	67.0	67.6
Medium Trucks:	59.2	57.7	51.3	49.8	58.2	58.5
Heavy Trucks:	59.9	58.5	49.4	50.7	59.0	59.1
Vehicle Noise:	69.2	67.4	64.8	59.6	68.1	68.6

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (CALVENO) - 10/1/2012

Scenario: Third Floor With Wall
Road Name: Sumner Ave.
Lot No: Building 1, 2

Project Name: Sumner Place
Job Number: 13448
Analyst: N. Johnson

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	21,490 vehicles
Peak Hour Percentage:	10%
Peak Hour Volume:	2,149 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	66 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	62.0 feet
Centerline Dist. to Observer:	73.0 feet
Barrier Distance to Observer:	11.0 feet
Observer Height (Above Pad):	23.0 feet
Pad Elevation:	611.2 feet
Road Elevation:	609.5 feet
Barrier Elevation:	611.2 feet
Road Grade:	0.0%

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	77.5%	12.9%	9.6%	97.42%
Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Heavy Trucks:	86.5%	2.7%	10.8%	0.74%

Noise Source Elevations (in feet)

Autos:	609.500		
Medium Trucks:	611.797		
Heavy Trucks:	617.506	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	69.650
Medium Trucks:	68.868
Heavy Trucks:	67.226

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	69.34	1.37	-2.26	-1.20	*-10.24*	0.000	0.000
Medium Trucks:	77.62	-15.87	-2.19	-1.20	*-10.91*	0.000	0.000
Heavy Trucks:	82.14	-19.82	-2.03	-1.20	*-12.66*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.3	65.4	63.6	57.5	66.2	66.8
Medium Trucks:	58.4	56.9	50.5	49.0	57.4	57.6
Heavy Trucks:	59.1	57.7	48.6	49.9	58.2	58.4
Vehicle Noise:	68.3	66.5	63.9	58.7	67.3	67.8

Mitigated Noise Levels (with Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.3	65.4	63.6	57.5	66.2	66.8
Medium Trucks:	58.4	56.9	50.5	49.0	57.4	57.6
Heavy Trucks:	59.1	57.7	48.6	49.9	58.2	58.4
Vehicle Noise:	68.3	66.5	63.9	58.7	67.3	67.8

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL (CALVENO) - 10/1/2012

Scenario: Third Floor With Wall
Road Name: Sumner Ave.
Lot No: Building 21, 22

Project Name: Sumner Place
Job Number: 13448
Analyst: N. Johnson

SITE SPECIFIC INPUT DATA

Highway Data

Average Daily Traffic (Adt):	21,490 vehicles
Peak Hour Percentage:	10%
Peak Hour Volume:	2,149 vehicles
Vehicle Speed:	45 mph
Near/Far Lane Distance:	66 feet

Site Data

Barrier Height:	**0.0 feet**
Barrier Type (0-Wall, 1-Berm):	0.0
Centerline Dist. to Barrier:	62.0 feet
Centerline Dist. to Observer:	74.0 feet
Barrier Distance to Observer:	12.0 feet
Observer Height (Above Pad):	23.0 feet
Pad Elevation:	608.4 feet
Road Elevation:	607.4 feet
Barrier Elevation:	608.4 feet
Road Grade:	0.0%

NOISE MODEL INPUTS

Site Conditions (Hard = 10, Soft = 15)

Autos:	15
Medium Trucks (2 Axles):	15
Heavy Trucks (3+ Axles):	15

Vehicle Mix

VehicleType	*Day*	*Evening*	*Night*	*Daily*
Autos:	77.5%	12.9%	9.6%	97.42%
Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Heavy Trucks:	86.5%	2.7%	10.8%	0.74%

Noise Source Elevations (in feet)

Autos:	607.400		
Medium Trucks:	609.697		
Heavy Trucks:	615.406	*Grade Adjustment:*	0.0

Lane Equivalent Distance (in feet)

Autos:	70.455
Medium Trucks:	69.706
Heavy Trucks:	68.143

FHWA Noise Model Calculations

VehicleType	*REMEL*	*Traffic Flow*	*Distance*	*Finite Road*	*Fresnel*	*Barrier Atten*	*Berm Atten*
Autos:	69.34	1.37	-2.34	-1.20	*-9.95*	0.000	0.000
Medium Trucks:	77.62	-15.87	-2.27	-1.20	*-10.62*	0.000	0.000
Heavy Trucks:	82.14	-19.82	-2.12	-1.20	*-12.37*	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.2	65.3	63.5	57.5	66.1	66.7
Medium Trucks:	58.3	56.8	50.4	48.9	57.3	57.6
Heavy Trucks:	59.0	57.6	48.5	49.8	58.1	58.3
Vehicle Noise:	68.3	66.5	63.9	58.6	67.2	67.7

Mitigated Noise Levels (with Topo and barrier attenuation)

VehicleType	*Leq Peak Hour*	*Leq Day*	*Leq Evening*	*Leq Night*	*Ldn*	*CNEL*
Autos:	67.2	65.3	63.5	57.5	66.1	66.7
Medium Trucks:	58.3	56.8	50.4	48.9	57.3	57.6
Heavy Trucks:	59.0	57.6	48.5	49.8	58.1	58.3
Vehicle Noise:	68.3	66.5	63.9	58.6	67.2	67.7

APPENDIX 7.2:

INTERIOR NOISE REDUCTION

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INTERIOR NOISE REDUCTIONS

Project Name: Sumner Place — *Job Number:* 13448

Floor Plan: Plan 1 — *Analyst:* N. Johnson

Room: Living Room

(1) Transmission Loss Calculations (Exterior Wall)

Exterior Wall Assembly	*Source*	*Wall Area*	*STC*	*Transmission Loss (dB) by Frequency (Hz)*						*Fractional Area S/(10^(TL/10))*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	*dB*
Stucco	David Harris p. 371	177.0	46	27	42	44	46	49	54	0.3532	0.0112	0.0070	0.0044	0.0022	0.0007	
Slider Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hung Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Glass Doors	Milgard	48.0	27	19	17	26	33	39	29	0.6043	0.9577	0.1206	0.0241	0.0060	0.0604	
Fixed Windows	Milgard	54.0	27	21	15	25	35	41	28	0.4289	1.7076	0.1708	0.0171	0.0043	0.0043	
										0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Totals		279								0.0050	0.0096	0.0011	0.0002	0.0000	0.0002	
Composite Exterior Wall Sound Transmission Loss	10*LOG(1/t)									23.04	20.18	29.71	37.87	43.47	36.30	37.51

(2) Room Effects (Absorption)

Room Surface/ Material	*Source*	*Area*	*NRC*	*Absorption Coefficients by Frequency (Hz)*						*Absorption (Sabins)*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	
Floor - Carpet	David Harris p. 347	228.0	0.30	0.15	0.17	0.12	0.32	0.52	0.30	34.20	38.76	27.36	73.0	118.6	68.4	
Floor - Vinyl	David Harris p. 347	0.0	0.05	0.02	0.03	0.05	0.03	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
Ceiling - Drywall	David Harris p. 348	228.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	22.80	18.24	11.40	6.84	6.84	6.84	
Walls - Drywall	David Harris p. 348	558.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	55.80	44.64	27.90	16.74	16.74	16.74	
Totals		1014								112.8	101.64	66.66	96.54	142.14	91.98	134.36
Room Effect	10*log (Room Absorption in Sabins)/(Exterior Wall Area)									-3.93	-4.39	-6.22	-4.61	-2.93	-4.82	-3.17

(3) Adjustment Factor

Sound Source Adjustment Factor										-6.00	-6.00	-6.00	-6.00	-6.00	-6.00	-6.00

(4) Calculated Interior Noise Reduction (dBA)

	125	*250*	*500*	*1000*	*2000*	*4000*	*dBA*
(Transmission Loss + Room Effects + Adjustment Factor)	13.10	9.79	17.49	27.26	34.54	25.48	
Octave Band Frequency Correction Factors for A-Weighted Sound Levels	16.10	8.60	3.20	0.00	-1.20	-1.00	
A-Weighted Sound Levels	29.20	18.39	20.69	27.26	33.34	24.48	
Noise Reduction (dBA)	29.08	18.27	20.57	27.13	33.21	24.35	**28.1**

INTERIOR NOISE REDUCTIONS

Project Name: Sumner Place — *Job Number:* 13448

Floor Plan: Plan 1 — *Analyst:* N. Johnson

Room: Bedroom 1

(1) Transmission Loss Calculations (Exterior Wall)

Exterior Wall Assembly	Source	Wall Area	STC	Transmission Loss (dB) by Frequency (Hz)						Fractional Area S/(10^(TL/10))						
				125	250	500	1000	2000	4000	125	250	500	1000	2000	4000	dB
Stucco	David Harris p. 371	213.0	46	27	42	44	46	49	54	0.4250	0.0134	0.0085	0.0054	0.0027	0.0008	
Slider Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hung Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Glass Doors	Milgard	48.0	27	19	17	26	33	39	29	0.6043	0.9577	0.1206	0.0241	0.0060	0.0604	
Fixed Windows	Milgard	18.0	27	21	15	25	35	41	28	0.1430	0.5692	0.0569	0.0057	0.0014	0.0014	
										0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Totals		279								0.0042	0.0055	0.0007	0.0001	0.0000	0.0002	
Composite Exterior Wall Sound Transmission Loss	10*LOG(1/t)									23.77	22.58	31.76	39.00	44.39	36.48	38.43

(2) Room Effects (Absorption)

Room Surface/ Material	Source	Area	NRC	Absorption Coefficients by Frequency (Hz)						Absorption (Sabins)						
				125	250	500	1000	2000	4000	125	250	500	1000	2000	4000	
Floor - Carpet	David Harris p. 347	228.0	0.30	0.15	0.17	0.12	0.32	0.52	0.30	34.20	38.76	27.36	72.96	118.6	68.40	
Floor - Vinyl	David Harris p. 347	0.0	0.05	0.02	0.03	0.05	0.03	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
Ceiling - Drywall	David Harris p. 348	228.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	22.80	18.24	11.40	6.84	6.84	6.84	
Walls - Drywall	David Harris p. 348	558.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	55.80	44.64	27.90	16.74	16.74	16.74	
Totals		1014								112.8	101.64	66.66	96.54	142.14	91.98	134.4
Room Effect	10*log (Room Absorption in Sabins)/(Exterior Wall Area)									-3.93	-4.39	-6.22	-4.61	-2.93	-4.82	-3.17

(3) Adjustment Factor

Sound Source Adjustment Factor										-6.00	-6.00	-6.00	-6.00	-6.00	-6.00	-6.00

(4) Calculated Interior Noise Reduction (dBA)

	125	250	500	1000	2000	4000	dBA
(Transmission Loss + Room Effects + Adjustment Factor)	13.83	12.19	19.54	28.39	35.46	25.66	
Octave Band Frequency Correction Factors for A-Weighted Sound Levels	16.10	8.60	3.20	0.00	-1.20	-1.00	
A-Weighted Sound Levels	29.93	20.79	22.74	28.39	34.26	24.66	
Noise Reduction (dBA)	29.81	20.67	22.62	28.27	34.14	24.54	**29.0**

INTERIOR NOISE REDUCTIONS

Project Name: Sumner Place — *Job Number:* 13448

Floor Plan: Plan 2 — *Analyst:* N. Johnson

Room: Bedroom 3

(1) Transmission Loss Calculations (Exterior Wall)

Exterior Wall Assembly	*Source*	*Wall Area*	*STC*	*Transmission Loss (dB) by Frequency (Hz)*						*Fractional Area S/(10^(TL/10))*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	*dB*
Stucco	David Harris p. 371	204.0	46	27	42	44	46	49	54	0.4070	0.0129	0.0081	0.0051	0.0026	0.0008	
Slider Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hung Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Glass Doors	Milgard	48.0	27	19	17	26	33	39	29	0.6043	0.9577	0.1206	0.0241	0.0060	0.0604	
Fixed Windows	Milgard	36.0	27	21	15	25	35	41	28	0.2860	1.1384	0.1138	0.0114	0.0029	0.0029	
										0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Totals		288								0.0045	0.0073	0.0008	0.0001	0.0000	0.0002	
Composite Exterior Wall Sound Transmission Loss		10*LOG(1/t)								23.46	21.35	30.75	38.51	44.00	36.53	38.04

(2) Room Effects (Absorption)

Room Surface/ Material	*Source*	*Area*	*NRC*	*Absorption Coefficients by Frequency (Hz)*						*Absorption (Sabins)*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	
Floor - Carpet	David Harris p. 347	247.0	0.30	0.15	0.17	0.12	0.32	0.52	0.30	37.1	42.0	29.6	79.0	128.4	74.1	
Floor - Vinyl	David Harris p. 347	0.0	0.05	0.02	0.03	0.05	0.03	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
Ceiling - Drywall	David Harris p. 348	247.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	24.70	19.76	12.35	7.41	7.41	7.41	
Walls - Drywall	David Harris p. 348	558.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	55.80	44.64	27.90	16.74	16.74	16.74	
Totals		1052								117.55	106.39	69.89	103.19	152.59	98.25	144.8
Room Effect	10*log (Room Absorption in Sabins)/(Exterior Wall Area)									-3.89	-4.32	-6.15	-4.46	-2.76	-4.67	-2.99

(3) Adjustment Factor

Sound Source Adjustment Factor										-6.00	-6.00	-6.00	-6.00	-6.00	-6.00	-6.00

(4) Calculated Interior Noise Reduction (dBA)

	125	*250*	*500*	*1000*	*2000*	*4000*	*dBA*
(Transmission Loss + Room Effects + Adjustment Factor)	13.57	11.03	18.60	28.05	35.24	25.85	
Octave Band Frequency Correction Factors for A-Weighted Sound Levels	16.10	8.60	3.20	0.00	-1.20	-1.00	
A-Weighted Sound Levels	29.67	19.63	21.80	28.05	34.04	24.85	
Noise Reduction (dBA)	29.55	19.50	21.67	27.93	33.91	24.73	**28.8**

INTERIOR NOISE REDUCTIONS

Project Name: Sumner Place — *Job Number:* 13448

Floor Plan: Plan 2 — *Analyst:* N. Johnson

Room: Living Room

(1) Transmission Loss Calculations (Exterior Wall)

Exterior Wall Assembly	*Source*	*Wall Area*	*STC*	*Transmission Loss (dB) by Frequency (Hz)*						*Fractional Area S/(10^(TL/10))*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	*dB*
Stucco	David Harris p. 371	141.0	46	27	42	44	46	49	54	0.2813	0.0089	0.0056	0.0035	0.0018	0.0006	
Slider Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hung Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Glass Doors	Milgard	48.0	27	19	17	26	33	39	29	0.6043	0.9577	0.1206	0.0241	0.0060	0.0604	
Fixed Windows	Milgard	36.0	27	21	15	25	35	41	28	0.2860	1.1384	0.1138	0.0114	0.0029	0.0029	
										0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Totals		225								0.0052	0.0094	0.0011	0.0002	0.0000	0.0003	
Composite Exterior Wall Sound Transmission Loss	10*LOG(1/t)									22.83	20.29	29.72	37.61	43.24	35.47	37.22

(2) Room Effects (Absorption)

Room Surface/ Material	*Source*	*Area*	*NRC*	*Absorption Coefficients by Frequency (Hz)*						*Absorption (Sabins)*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	
Floor - Carpet	David Harris p. 347	150.0	0.30	0.15	0.17	0.12	0.32	0.52	0.30	22.50	25.50	18.00	48.00	78.00	45.00	
Floor - Vinyl	David Harris p. 347	0.0	0.05	0.02	0.03	0.05	0.03	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
Ceiling - Drywall	David Harris p. 348	150.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	15.00	12.00	7.50	4.50	4.50	4.50	
Walls - Drywall	David Harris p. 348	450.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	45.00	36.00	22.50	13.50	13.50	13.50	
Totals		750								82.5	73.5	48	66	96	63	88.44
Room Effect	10*log (Room Absorption in Sabins)/(Exterior Wall Area)									-4.36	-4.86	-6.71	-5.33	-3.70	-5.53	-4.06

(3) Adjustment Factor

Sound Source Adjustment Factor										-6.00	-6.00	-6.00	-6.00	-6.00	-6.00	-6.00

(4) Calculated Interior Noise Reduction (dBA)

	125	*250*	*500*	*1000*	*2000*	*4000*	*dBA*
(Transmission Loss + Room Effects + Adjustment Factor)	12.48	9.43	17.01	26.29	33.54	23.94	
Octave Band Frequency Correction Factors for A-Weighted Sound Levels	16.10	8.60	3.20	0.00	-1.20	-1.00	
A-Weighted Sound Levels	28.58	18.03	20.21	26.29	32.34	22.94	
Noise Reduction (dBA)	28.45	17.91	20.08	26.16	32.21	22.82	**27.2**

INTERIOR NOISE REDUCTIONS

Project Name: Sumner Place — *Job Number:* 13448

Floor Plan: Plan 2 — *Analyst:* N. Johnson

Room: Bedroom 1

(1) Transmission Loss Calculations (Exterior Wall)

Exterior Wall Assembly	*Source*	*Wall Area*	*STC*	*Transmission Loss (dB) by Frequency (Hz)*						*Fractional Area S/(10^(TL/10))*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	*dB*
Stucco	David Harris p. 371	141.0	46	27	42	44	46	49	54	0.2813	0.0089	0.0056	0.0035	0.0018	0.0006	
Slider Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hung Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Glass Doors	Milgard	48.0	27	19	17	26	33	39	29	0.6043	0.9577	0.1206	0.0241	0.0060	0.0604	
Fixed Windows	Milgard	36.0	27	21	15	25	35	41	28	0.2860	1.1384	0.1138	0.0114	0.0029	0.0029	
										0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Totals		225								0.0052	0.0094	0.0011	0.0002	0.0000	0.0003	
Composite Exterior Wall Sound Transmission Loss	10*LOG(1/t)									22.83	20.29	29.72	37.61	43.24	35.47	37.22

(2) Room Effects (Absorption)

Room Surface/ Material	*Source*	*Area*	*NRC*	*Absorption Coefficients by Frequency (Hz)*						*Absorption (Sabins)*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	
Floor - Carpet	David Harris p. 347	150.0	0.30	0.15	0.17	0.12	0.32	0.52	0.30	22.50	25.50	18.00	48.00	78.00	45.00	
Floor - Vinyl	David Harris p. 347	0.0	0.05	0.02	0.03	0.05	0.03	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
Ceiling - Drywall	David Harris p. 348	150.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	15.00	12.00	7.50	4.50	4.50	4.50	
Walls - Drywall	David Harris p. 348	450.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	45.00	36.00	22.50	13.50	13.50	13.50	
Totals		750								82.5	73.5	48	66	96	63	88.44
Room Effect	10*log (Room Absorption in Sabins)/(Exterior Wall Area)									-4.36	-4.86	-6.71	-5.33	-3.70	-5.53	-4.06

(3) Adjustment Factor

Sound Source Adjustment Factor										-6.00	-6.00	-6.00	-6.00	-6.00	-6.00	-6.00

(4) Calculated Interior Noise Reduction (dBA)

	125	*250*	*500*	*1000*	*2000*	*4000*	*dBA*
(Transmission Loss + Room Effects + Adjustment Factor)	12.48	9.43	17.01	26.29	33.54	23.94	
Octave Band Frequency Correction Factors for A-Weighted Sound Levels	16.10	8.60	3.20	0.00	-1.20	-1.00	
A-Weighted Sound Levels	28.58	18.03	20.21	26.29	32.34	22.94	
Noise Reduction (dBA)	28.45	17.91	20.08	26.16	32.21	22.82	**27.2**

INTERIOR NOISE REDUCTIONS

Project Name: Sumner Place — *Job Number:* 13448

Floor Plan: Plan 3 — *Analyst:* N. Johnson

Room: Bedroom 4

(1) Transmission Loss Calculations (Exterior Wall)

Exterior Wall Assembly	*Source*	*Wall Area*	*STC*	*Transmission Loss (dB) by Frequency (Hz)*						*Fractional Area S/(10^(TL/10))*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	*dB*
Stucco	David Harris p. 371	207.0	46	27	42	44	46	49	54	0.4130	0.0131	0.0082	0.0052	0.0026	0.0008	
Slider Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hung Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Glass Doors		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Fixed Windows	Milgard	36.0	27	21	15	25	35	41	28	0.2860	1.1384	0.1138	0.0114	0.0029	0.0029	
										0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Totals		243								0.0029	0.0047	0.0005	0.0001	0.0000	0.0000	
Composite Exterior Wall Sound Transmission Loss		10*LOG(1/t)								25.41	23.24	32.99	41.66	46.48	48.19	43.28

(2) Room Effects (Absorption)

Room Surface/ Material	*Source*	*Area*	*NRC*	*Absorption Coefficients by Frequency (Hz)*						*Absorption (Sabins)*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	
Floor - Carpet	David Harris p. 347	182.0	0.30	0.15	0.17	0.12	0.32	0.52	0.30	27.30	30.94	21.84	58.24	94.64	54.60	
Floor - Vinyl	David Harris p. 347	0.0	0.05	0.02	0.03	0.05	0.03	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
Ceiling - Drywall	David Harris p. 348	182.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	18.20	14.56	9.10	5.46	5.46	5.46	
Walls - Drywall	David Harris p. 348	486.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	48.60	38.88	24.30	14.58	14.58	14.58	
Totals		850								94.1	84.38	55.24	78.28	114.68	74.64	106.94
Room Effect	10*log (Room Absorption in Sabins)/(Exterior Wall Area)									-4.12	-4.59	-6.43	-4.92	-3.26	-5.13	-3.56

(3) Adjustment Factor

Sound Source Adjustment Factor										-6.00	-6.00	-6.00	-6.00	-6.00	-6.00	-6.00

(4) Calculated Interior Noise Reduction (dBA)

	125	*250*	*500*	*1000*	*2000*	*4000*	*dBA*
(Transmission Loss + Room Effects + Adjustment Factor)	15.29	12.65	20.56	30.74	37.22	37.07	
Octave Band Frequency Correction Factors for A-Weighted Sound Levels	16.10	8.60	3.20	0.00	-1.20	-1.00	
A-Weighted Sound Levels	31.39	21.25	23.76	30.74	36.02	36.07	
Noise Reduction (dBA)	31.27	21.12	23.63	30.61	35.89	35.94	**32.5**

INTERIOR NOISE REDUCTIONS

Project Name: Sumner Place — *Job Number:* 13448

Floor Plan: Plan 3 — *Analyst:* N. Johnson

Room: Living Room

(1) Transmission Loss Calculations (Exterior Wall)

Exterior Wall Assembly	*Source*	*Wall Area*	*STC*	*Transmission Loss (dB) by Frequency (Hz)*						*Fractional Area S/(10^(TL/10))*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	*dB*
Stucco	David Harris p. 371	261.0	46	27	42	44	46	49	54	0.5208	0.0165	0.0104	0.0066	0.0033	0.0010	
Slider Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hung Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Glass Doors		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Fixed Windows	Milgard	36.0	27	21	15	25	35	41	28	0.2860	1.1384	0.1138	0.0114	0.0029	0.0029	
										0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Totals		297								0.0027	0.0039	0.0004	0.0001	0.0000	0.0000	
Composite Exterior Wall Sound Transmission Loss	10*LOG(1/t)									25.66	24.10	33.79	42.19	46.84	48.82	43.80

(2) Room Effects (Absorption)

Room Surface/ Material	*Source*	*Area*	*NRC*	*Absorption Coefficients by Frequency (Hz)*						*Absorption (Sabins)*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	
Floor - Carpet	David Harris p. 347	272.0	0.30	0.15	0.17	0.12	0.32	0.52	0.30	40.80	46.24	32.64	87.04	141.44	81.60	
Floor - Vinyl	David Harris p. 347	0.0	0.05	0.02	0.03	0.05	0.03	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
Ceiling - Drywall	David Harris p. 348	272.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	27.20	21.76	13.60	8.16	8.16	8.16	
Walls - Drywall	David Harris p. 348	594.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	59.40	47.52	29.70	17.82	17.82	17.82	
Totals		1138								127.4	115.52	75.94	113.02	167.42	107.58	159.64
Room Effect	10*log (Room Absorption in Sabins)/(Exterior Wall Area)									-3.68	-4.10	-5.92	-4.20	-2.49	-4.41	-2.70

(3) Adjustment Factor

Sound Source Adjustment Factor										-6.00	-6.00	-6.00	-6.00	-6.00	-6.00	-6.00

(4) Calculated Interior Noise Reduction (dBA)

	125	*250*	*500*	*1000*	*2000*	*4000*	*dBA*
(Transmission Loss + Room Effects + Adjustment Factor)	15.98	14.00	21.86	31.99	38.35	38.41	
Octave Band Frequency Correction Factors for A-Weighted Sound Levels	16.10	8.60	3.20	0.00	-1.20	-1.00	
A-Weighted Sound Levels	32.08	22.60	25.06	31.99	37.15	37.41	
Noise Reduction (dBA)	31.96	22.48	24.94	31.87	37.03	37.28	**33.7**

INTERIOR NOISE REDUCTIONS

Project Name: Sumner Place — *Job Number:* 13448

Floor Plan: Plan 3 — *Analyst:* N. Johnson

Room: Bedroom 1

(1) Transmission Loss Calculations (Exterior Wall)

Exterior Wall Assembly	*Source*	*Wall Area*	*STC*	*Transmission Loss (dB) by Frequency (Hz)*						*Fractional Area S/(10^(TL/10))*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	*dB*
Stucco	David Harris p. 371	234.0	46	27	42	44	46	49	54	0.4669	0.0148	0.0093	0.0059	0.0029	0.0009	
Slider Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hung Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Glass Doors		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Fixed Windows	Milgard	36.0	27	21	15	25	35	41	28	0.2860	1.1384	0.1138	0.0114	0.0029	0.0029	
										0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Totals		270								0.0028	0.0043	0.0005	0.0001	0.0000	0.0000	
Composite Exterior Wall Sound Transmission Loss		10*LOG(1/t)								25.55	23.69	33.41	41.94	46.68	48.53	43.56

(2) Room Effects (Absorption)

Room Surface/ Material	*Source*	*Area*	*NRC*	*Absorption Coefficients by Frequency (Hz)*						*Absorption (Sabins)*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	
Floor - Carpet	David Harris p. 347	224.0	0.30	0.15	0.17	0.12	0.32	0.52	0.30	33.60	38.08	26.88	71.68	116.48	67.20	
Floor - Vinyl	David Harris p. 347	0.0	0.05	0.02	0.03	0.05	0.03	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
Ceiling - Drywall	David Harris p. 348	224.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	22.40	17.92	11.20	6.72	6.72	6.72	
Walls - Drywall	David Harris p. 348	540.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	54.00	43.20	27.00	16.20	16.20	16.20	
Totals		988								110	99.2	65.08	94.6	139.4	90.12	131.62
Room Effect	10*log (Room Absorption in Sabins)/(Exterior Wall Area)									-3.90	-4.35	-6.18	-4.55	-2.87	-4.77	-3.12

(3) Adjustment Factor

Sound Source Adjustment Factor										-6.00	-6.00	-6.00	-6.00	-6.00	-6.00	-6.00

(4) Calculated Interior Noise Reduction (dBA)

	125	*250*	*500*	*1000*	*2000*	*4000*	*dBA*
(Transmission Loss + Room Effects + Adjustment Factor)	15.65	13.35	21.23	31.39	37.80	37.76	
Octave Band Frequency Correction Factors for A-Weighted Sound Levels	16.10	8.60	3.20	0.00	-1.20	-1.00	
A-Weighted Sound Levels	31.75	21.95	24.43	31.39	36.60	36.76	
Noise Reduction (dBA)	31.62	21.82	24.30	31.26	36.48	36.64	**33.1**

INTERIOR NOISE REDUCTIONS

Project Name: Sumner Place — *Job Number:* 13448

Floor Plan: Plan 4 — *Analyst:* N. Johnson

Room: Bedroom 4

(1) Transmission Loss Calculations (Exterior Wall)

Exterior Wall Assembly	*Source*	*Wall Area*	*STC*	*Transmission Loss (dB) by Frequency (Hz)*						*Fractional Area S/(10^(TL/10))*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	*dB*
Stucco	David Harris p. 371	207.0	46	27	42	44	46	49	54	0.4130	0.0131	0.0082	0.0052	0.0026	0.0008	
Slider Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hung Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Glass Doors		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Fixed Windows	Milgard	36.0	27	21	15	25	35	41	28	0.2860	1.1384	0.1138	0.0114	0.0029	0.0029	
										0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Totals		243								0.0029	0.0047	0.0005	0.0001	0.0000	0.0000	
Composite Exterior Wall Sound Transmission Loss		10*LOG(1/t)								25.41	23.24	32.99	41.66	46.48	48.19	43.28

(2) Room Effects (Absorption)

Room Surface/ Material	*Source*	*Area*	*NRC*	*Absorption Coefficients by Frequency (Hz)*						*Absorption (Sabins)*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	
Floor - Carpet	David Harris p. 347	182.0	0.30	0.15	0.17	0.12	0.32	0.52	0.30	27.30	30.94	21.84	58.24	94.64	54.60	
Floor - Vinyl	David Harris p. 347	0.0	0.05	0.02	0.03	0.05	0.03	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
Ceiling - Drywall	David Harris p. 348	182.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	18.20	14.56	9.10	5.46	5.46	5.46	
Walls - Drywall	David Harris p. 348	486.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	48.60	38.88	24.30	14.58	14.58	14.58	
Totals		850								94.1	84.38	55.24	78.28	114.68	74.64	106.94
Room Effect	10*log (Room Absorption in Sabins)/(Exterior Wall Area)									-4.12	-4.59	-6.43	-4.92	-3.26	-5.13	-3.56

(3) Adjustment Factor

Sound Source Adjustment Factor										-6.00	-6.00	-6.00	-6.00	-6.00	-6.00	-6.00

(4) Calculated Interior Noise Reduction (dBA)

	125	*250*	*500*	*1000*	*2000*	*4000*	*dBA*
(Transmission Loss + Room Effects + Adjustment Factor)	15.29	12.65	20.56	30.74	37.22	37.07	
Octave Band Frequency Correction Factors for A-Weighted Sound Levels	16.10	8.60	3.20	0.00	-1.20	-1.00	
A-Weighted Sound Levels	31.39	21.25	23.76	30.74	36.02	36.07	
Noise Reduction (dBA)	31.27	21.12	23.63	30.61	35.89	35.94	**32.5**

INTERIOR NOISE REDUCTIONS

Project Name: Sumner Place — *Job Number:* 13448

Floor Plan: Plan 4 — *Analyst:* N. Johnson

Room: Living Room

(1) Transmission Loss Calculations (Exterior Wall)

Exterior Wall Assembly	*Source*	*Wall Area*	*STC*	*Transmission Loss (dB) by Frequency (Hz)*						*Fractional Area S/(10^(TL/10))*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	*dB*
Stucco	David Harris p. 371	288.0	46	27	42	44	46	49	54	0.5746	0.0182	0.0115	0.0072	0.0036	0.0011	
Slider Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hung Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Glass Doors		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Fixed Windows	Milgard	36.0	27	21	15	25	35	41	28	0.2860	1.1384	0.1138	0.0114	0.0029	0.0029	
										0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Totals		324								0.0027	0.0036	0.0004	0.0001	0.0000	0.0000	
Composite Exterior Wall Sound Transmission Loss	10*LOG(1/t)									25.76	24.47	34.13	42.41	46.99	49.08	44.02

(2) Room Effects (Absorption)

Room Surface/ Material	*Source*	*Area*	*NRC*	*Absorption Coefficients by Frequency (Hz)*						*Absorption (Sabins)*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	
Floor - Carpet	David Harris p. 347	320.0	0.30	0.15	0.17	0.12	0.32	0.52	0.30	48.00	54.40	38.40	102.40	166.40	96.00	
Floor - Vinyl	David Harris p. 347	0.0	0.05	0.02	0.03	0.05	0.03	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
Ceiling - Drywall	David Harris p. 348	320.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	32.00	25.60	16.00	9.60	9.60	9.60	
Walls - Drywall	David Harris p. 348	648.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	64.80	51.84	32.40	19.44	19.44	19.44	
Totals		1288								144.8	131.84	86.8	131.44	195.44	125.04	187.66
Room Effect	10*log (Room Absorption in Sabins)/(Exterior Wall Area)									-3.50	-3.90	-5.72	-3.92	-2.20	-4.13	-2.37

(3) Adjustment Factor

Sound Source Adjustment Factor										-6.00	-6.00	-6.00	-6.00	-6.00	-6.00	-6.00

(4) Calculated Interior Noise Reduction (dBA)

	125	*250*	*500*	*1000*	*2000*	*4000*	*dBA*
(Transmission Loss + Room Effects + Adjustment Factor)	16.26	14.57	22.41	32.49	38.79	38.94	
Octave Band Frequency Correction Factors for A-Weighted Sound Levels	16.10	8.60	3.20	0.00	-1.20	-1.00	
A-Weighted Sound Levels	32.36	23.17	25.61	32.49	37.59	37.94	
Noise Reduction (dBA)	32.23	23.04	25.48	32.36	37.47	37.82	**34.1**

INTERIOR NOISE REDUCTIONS

Project Name: Sumner Place — *Job Number:* 13448

Floor Plan: Plan 4 — *Analyst:* N. Johnson

Room: Bedroom 1

(1) Transmission Loss Calculations (Exterior Wall)

Exterior Wall Assembly	*Source*	*Wall Area*	*STC*	*Transmission Loss (dB) by Frequency (Hz)*						*Fractional Area S/(10^(TL/10))*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	*dB*
Stucco	David Harris p. 371	216.0	46	27	42	44	46	49	54	0.4310	0.0136	0.0086	0.0054	0.0027	0.0009	
Slider Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hung Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Glass Doors		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Fixed Windows	Milgard	36.0	27	21	15	25	35	41	28	0.2860	1.1384	0.1138	0.0114	0.0029	0.0029	
										0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Totals		252								0.0028	0.0046	0.0005	0.0001	0.0000	0.0000	
Composite Exterior Wall Sound Transmission Loss		10*LOG(1/t)								25.46	23.40	33.13	41.76	46.55	48.31	43.38

(2) Room Effects (Absorption)

Room Surface/ Material	*Source*	*Area*	*NRC*	*Absorption Coefficients by Frequency (Hz)*						*Absorption (Sabins)*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	
Floor - Carpet	David Harris p. 347	192.0	0.30	0.15	0.17	0.12	0.32	0.52	0.30	28.80	32.64	23.04	61.44	99.84	57.60	
Floor - Vinyl	David Harris p. 347	0.0	0.05	0.02	0.03	0.05	0.03	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
Ceiling - Drywall	David Harris p. 348	192.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	19.20	15.36	9.60	5.76	5.76	5.76	
Walls - Drywall	David Harris p. 348	504.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	50.40	40.32	25.20	15.12	15.12	15.12	
Totals		888								98.4	88.32	57.84	82.32	120.72	78.48	112.97
Room Effect	10*log (Room Absorption in Sabins)/(Exterior Wall Area)									-4.08	-4.55	-6.39	-4.86	-3.20	-5.07	-3.48

(3) Adjustment Factor

Sound Source Adjustment Factor										-6.00	-6.00	-6.00	-6.00	-6.00	-6.00	-6.00

(4) Calculated Interior Noise Reduction (dBA)

	125	*250*	*500*	*1000*	*2000*	*4000*	*dBA*
(Transmission Loss + Room Effects + Adjustment Factor)	15.38	12.85	20.74	30.90	37.35	37.24	
Octave Band Frequency Correction Factors for A-Weighted Sound Levels	16.10	8.60	3.20	0.00	-1.20	-1.00	
A-Weighted Sound Levels	31.48	21.45	23.94	30.90	36.15	36.24	
Noise Reduction (dBA)	31.35	21.32	23.82	30.77	36.03	36.12	**32.6**

INTERIOR NOISE REDUCTIONS

Project Name: Sumner Place — *Job Number:* 13448

Floor Plan: FP — *Analyst:* N. Johnson

Room: Primary

(1) Transmission Loss Calculations (Exterior Wall)

Exterior Wall Assembly	*Source*	*Wall Area*	*STC*	*Transmission Loss (dB) by Frequency (Hz)*						*Fractional Area S/(10^(TL/10))*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	*dB*
Stucco	David Harris p. 371	0.0	46	27	42	44	46	49	54	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Slider Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hung Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Glass Doors		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Fixed Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
										0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Totals		0								#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Composite Exterior Wall Sound Transmission Loss	10*LOG(1/t)									#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

(2) Room Effects (Absorption)

Room Surface/ Material	*Source*	*Area*	*NRC*	*Absorption Coefficients by Frequency (Hz)*						*Absorption (Sabins)*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	
Floor - Carpet	David Harris p. 347	0.0	0.30	0.15	0.17	0.12	0.32	0.52	0.30	0.00	0.00	0.00	0.00	0.00	0.00	
Floor - Vinyl	David Harris p. 347	0.0	0.05	0.02	0.03	0.05	0.03	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
Ceiling - Drywall	David Harris p. 348	0.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	
Walls - Drywall	David Harris p. 348	0.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	
Totals		0								0	0	0	0	0	0	0.00
Room Effect	10*log (Room Absorption in Sabins)/(Exterior Wall Area)									#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

(3) Adjustment Factor

Sound Source Adjustment Factor										-6.00	-6.00	-6.00	-6.00	-6.00	-6.00	-6.00

(4) Calculated Interior Noise Reduction (dBA)

	125	*250*	*500*	*1000*	*2000*	*4000*	*dBA*
(Transmission Loss + Room Effects + Adjustment Factor)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Octave Band Frequency Correction Factors for A-Weighted Sound Levels	16.10	8.60	3.20	0.00	-1.20	-1.00	
A-Weighted Sound Levels	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Noise Reduction (dBA)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	**#DIV/0!**

INTERIOR NOISE REDUCTIONS

Project Name: Sumner Place — *Job Number:* 13448

Floor Plan: FP — *Analyst:* N. Johnson

Room: Primary

(1) Transmission Loss Calculations (Exterior Wall)

Exterior Wall Assembly	*Source*	*Wall Area*	*STC*	*Transmission Loss (dB) by Frequency (Hz)*						*Fractional Area S/(10^(TL/10))*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	*dB*
Stucco	David Harris p. 371	0.0	46	27	42	44	46	49	54	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Slider Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hung Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Glass Doors		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Fixed Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
										0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Totals		0								#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Composite Exterior Wall Sound Transmission Loss	10*LOG(1/t)									#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

(2) Room Effects (Absorption)

Room Surface/ Material	*Source*	*Area*	*NRC*	*Absorption Coefficients by Frequency (Hz)*						*Absorption (Sabins)*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	
Floor - Carpet	David Harris p. 347	0.0	0.30	0.15	0.17	0.12	0.32	0.52	0.30	0.00	0.00	0.00	0.00	0.00	0.00	
Floor - Vinyl	David Harris p. 347	0.0	0.05	0.02	0.03	0.05	0.03	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
Ceiling - Drywall	David Harris p. 348	0.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	
Walls - Drywall	David Harris p. 348	0.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	
Totals		0								0	0	0	0	0	0	0.00
Room Effect	10*log (Room Absorption in Sabins)/(Exterior Wall Area)									#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

(3) Adjustment Factor

Sound Source Adjustment Factor										-6.00	-6.00	-6.00	-6.00	-6.00	-6.00	-6.00

(4) Calculated Interior Noise Reduction (dBA)

	125	*250*	*500*	*1000*	*2000*	*4000*	*dBA*
(Transmission Loss + Room Effects + Adjustment Factor)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Octave Band Frequency Correction Factors for A-Weighted Sound Levels	16.10	8.60	3.20	0.00	-1.20	-1.00	
A-Weighted Sound Levels	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Noise Reduction (dBA)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	**#DIV/0!**

INTERIOR NOISE REDUCTIONS

Project Name: Sumner Place — *Job Number:* 13448

Floor Plan: FP — *Analyst:* N. Johnson

Room: Primary

(1) Transmission Loss Calculations (Exterior Wall)

Exterior Wall Assembly	*Source*	*Wall Area*	*STC*	*Transmission Loss (dB) by Frequency (Hz)*						*Fractional Area S/(10^(TL/10))*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	*dB*
Stucco	David Harris p. 371	0.0	46	27	42	44	46	49	54	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Slider Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hung Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Glass Doors		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Fixed Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
										0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Totals		0								#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Composite Exterior Wall Sound Transmission Loss	10*LOG(1/t)									#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

(2) Room Effects (Absorption)

Room Surface/ Material	*Source*	*Area*	*NRC*	*Absorption Coefficients by Frequency (Hz)*						*Absorption (Sabins)*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	
Floor - Carpet	David Harris p. 347	0.0	0.30	0.15	0.17	0.12	0.32	0.52	0.30	0.00	0.00	0.00	0.00	0.00	0.00	
Floor - Vinyl	David Harris p. 347	0.0	0.05	0.02	0.03	0.05	0.03	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
Ceiling - Drywall	David Harris p. 348	0.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	
Walls - Drywall	David Harris p. 348	0.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	
Totals		0								0	0	0	0	0	0	0.00
Room Effect	10*log (Room Absorption in Sabins)/(Exterior Wall Area)									#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

(3) Adjustment Factor

Sound Source Adjustment Factor										-6.00	-6.00	-6.00	-6.00	-6.00	-6.00	-6.00

(4) Calculated Interior Noise Reduction (dBA)

	125	*250*	*500*	*1000*	*2000*	*4000*	*dBA*
(Transmission Loss + Room Effects + Adjustment Factor)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Octave Band Frequency Correction Factors for A-Weighted Sound Levels	16.10	8.60	3.20	0.00	-1.20	-1.00	
A-Weighted Sound Levels	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Noise Reduction (dBA)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	**#DIV/0!**

INTERIOR NOISE REDUCTIONS

Project Name: Sumner Place — *Job Number:* 13448

Floor Plan: FP — *Analyst:* N. Johnson

Room: Primary

(1) Transmission Loss Calculations (Exterior Wall)

Exterior Wall Assembly	*Source*	*Wall Area*	*STC*	*Transmission Loss (dB) by Frequency (Hz)*						*Fractional Area S/(10^(TL/10))*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	*dB*
Stucco	David Harris p. 371	0.0	46	27	42	44	46	49	54	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Slider Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hung Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Glass Doors		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Fixed Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
										0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Totals		0								#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Composite Exterior Wall Sound Transmission Loss	10*LOG(1/t)									#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

(2) Room Effects (Absorption)

Room Surface/ Material	*Source*	*Area*	*NRC*	*Absorption Coefficients by Frequency (Hz)*						*Absorption (Sabins)*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	
Floor - Carpet	David Harris p. 347	0.0	0.30	0.15	0.17	0.12	0.32	0.52	0.30	0.00	0.00	0.00	0.00	0.00	0.00	
Floor - Vinyl	David Harris p. 347	0.0	0.05	0.02	0.03	0.05	0.03	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
Ceiling - Drywall	David Harris p. 348	0.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	
Walls - Drywall	David Harris p. 348	0.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	
Totals		0								0	0	0	0	0	0	0.00
Room Effect	10*log (Room Absorption in Sabins)/(Exterior Wall Area)									#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

(3) Adjustment Factor

Sound Source Adjustment Factor										-6.00	-6.00	-6.00	-6.00	-6.00	-6.00	-6.00

(4) Calculated Interior Noise Reduction (dBA)

	125	*250*	*500*	*1000*	*2000*	*4000*	*dBA*
(Transmission Loss + Room Effects + Adjustment Factor)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Octave Band Frequency Correction Factors for A-Weighted Sound Levels	16.10	8.60	3.20	0.00	-1.20	-1.00	
A-Weighted Sound Levels	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Noise Reduction (dBA)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	**#DIV/0!**

INTERIOR NOISE REDUCTIONS

Project Name: Sumner Place — *Job Number:* 13448

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(1) Transmission Loss Calculations (Exterior Wall)

Exterior Wall Assembly	*Source*	*Wall Area*	*STC*	*Transmission Loss (dB) by Frequency (Hz)*						*Fractional Area S/(10^(TL/10))*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	*dB*
Stucco	David Harris p. 371	0.0	46	27	42	44	46	49	54	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Slider Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hung Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Glass Doors		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Fixed Windows		0.0	0	0	0	0	0	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
										0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Totals		0								#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Composite Exterior Wall Sound Transmission Loss	10*LOG(1/t)									#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

(2) Room Effects (Absorption)

Room Surface/ Material	*Source*	*Area*	*NRC*	*Absorption Coefficients by Frequency (Hz)*						*Absorption (Sabins)*						
				125	*250*	*500*	*1000*	*2000*	*4000*	*125*	*250*	*500*	*1000*	*2000*	*4000*	
Floor - Carpet	David Harris p. 347	0.0	0.30	0.15	0.17	0.12	0.32	0.52	0.30	0.00	0.00	0.00	0.00	0.00	0.00	
Floor - Vinyl	David Harris p. 347	0.0	0.05	0.02	0.03	0.05	0.03	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
Ceiling - Drywall	David Harris p. 348	0.0	0.50	0.10	0.08	0.05	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	
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Totals		0								0	0	0	0	0	0	0.00
Room Effect	10*log (Room Absorption in Sabins)/(Exterior Wall Area)									#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

(3) Adjustment Factor

Sound Source Adjustment Factor										-6.00	-6.00	-6.00	-6.00	-6.00	-6.00	-6.00

(4) Calculated Interior Noise Reduction (dBA)

	125	*250*	*500*	*1000*	*2000*	*4000*	*dBA*
(Transmission Loss + Room Effects + Adjustment Factor)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Octave Band Frequency Correction Factors for A-Weighted Sound Levels	16.10	8.60	3.20	0.00	-1.20	-1.00	
A-Weighted Sound Levels	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Noise Reduction (dBA)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	**#DIV/0!**

APPENDIX 10.1:

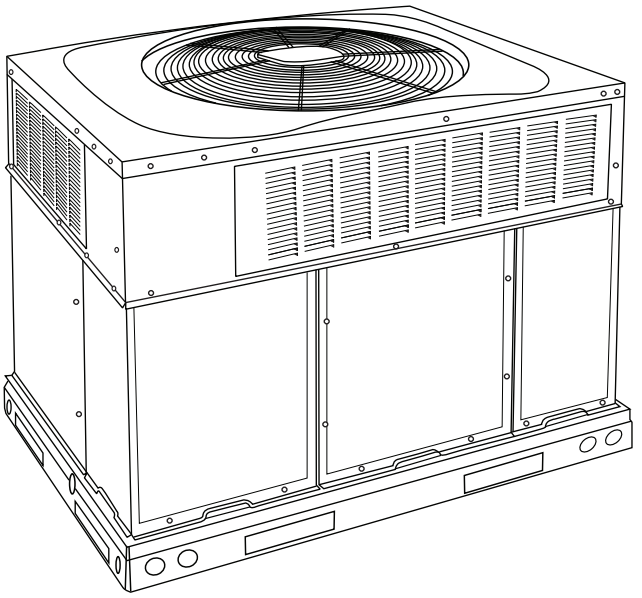
SAMPLE AIR CONDITIONING UNIT

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50VR–A
Performance™ 15 SEER 2–Stage Packaged Heat Pump System with Puron® (R–410A) Refrigerant
Single and Three Phase
2 to 5 Nominal Tons (Sizes 24–60)

Carrier
turn to the experts

Product Data



A09033

Fig. 1 - Unit 50VR-A

Single-Packaged Products with Energy-Saving Features and Puron® refrigerant.

- 15.0-15.5 SEER / 12.0-12.5 EER at 95°F (35°C) OD
- Factory-Installed TXV
- Multi-speed ECM Blower Motor - Standard
- Sound levels as low as 71dBA
- Two Stages of Cooling/Heating
- Dehumidification Feature

FEATURES/BENEFITS

One-piece heat pump unit with optional electric heater, low sound levels, easy installation, low maintenance, and dependable performance.

Puron Environmentally Sound Refrigerant is Carrier's unique refrigerant designed to help protect the environment. Puron is an HFC refrigerant which does not contain chlorine that can harm the ozone layer. Puron refrigerant is in service in millions of systems proving highly reliable, environmentally sound performance.

Easy Installation

Factory-assembled package is a compact, fully self-contained, electric cooling unit that is prewired, pre-piped, and pre-charged for minimum installation expense. These units are available in a variety of standard cooling sizes with voltage options to meet residential and light commercial requirements. Units are lightweight and install easily on a rooftop or at ground level. The high tech composite base eliminates rust problems associated with ground level applications.

Innovative Unit Base Design

On the inside a high-tech composite material will not rust and incorporates a sloped drain pan which improves drainage and helps inhibit mold, algae and bacterial growth. On the outside metal base rails provide added stability as well as easier handling and rigging.

Convertible duct configuration

Unit is designed for use in either downflow or horizontal applications. Each unit is converted from horizontal to downflow and includes horizontal duct covers. Downflow operation is provided in the field to allow vertical ductwork connections. The basepan seals on the bottom openings to ensure a positive seal in the vertical airflow mode.

Efficient operation High-efficiency design offers SEER (Seasonal Energy Efficiency Ratios) of up to 15.5 and HSPF of 8.5. (See page 4.)

Durable, dependable components

Scroll Compressors have 2 stages of cooling/heating and are designed for high efficiency. Each compressor is hermetically sealed against contamination to help promote longer life and dependable operation. Each compressor also has vibration isolation to provide quieter operation. All compressors have internal high pressure and overcurrent protection.

Multi-speed ECM Blower Motor is standard on all 50VR-A.

Direct-drive PSC (Permanent Split Capacitor) condenser-fan motors are designed to help reduce energy consumption and provide for cooing operation down to 40°F (4.4°C) outdoor temperature. Motormaster® II low ambient kit is available as a field-installed accessory.

Thermostatic Expansion Valve - A hard shutoff, balance port TXV maintains a constant superheat at the evaporator exit (cooling cycle) resulting in higher overall system efficiency.

Refrigerant system is designed to provide dependability. Liquid filter driers are used to promote clean, unrestricted operation. Each unit leaves the factory with a full refrigerant charge. Refrigerant service connections make checking operating pressures easier.

High and Low Pressure Switches provide added reliability for the compressor.

Indoor and Outdoor coils are computer-designed for optimum heat transfer and efficiency. The indoor coil is fabricated from copper tube and aluminum fins and is located inside the unit for protection against damage. The outdoor coil is internally mounted on the top tier of the unit.

Low sound ratings ensure a quiet indoor and outdoor environment with sound ratings as low as 71dBA. (See Page 4.)

Easy to service cabinets provide easy 3 panel accessibility to serviceable components during maintenance and installation. The basepan with integrated drain pan provides easy ground level installation with a mounting pad. A nesting feature ensures a positive basepan to roof curb seal when the unit is roof mounted. A convenient 3/4-in. (19.05 mm) wide perimeter flange makes frame mounting on a rooftop easy.

Dehumidification Feature

This unit has independent fan speeds for low stage cooling and high stage cooling. In addition, 208/230 VAC models have the field-selectable capability to run an enhanced dehumidification ('DHUM') speed on high stage cooling (as low as 320CFM per ton). Coupled with the improved dehumidification associated with low stage cooling, the DHUM speed allows for a complete dehumidification solution independent of cooling stage. The dehumidification control must open the control circuit on humidity rise above the dehumidification set point.

NOTE: The enhanced dehumidification feature on high stage cooling does not support use of an economizer.

Standard horizontal metal duct covers with insulation come with the unit and cover the horizontal duct openings. These can be left in place if the units are converted to downflow.

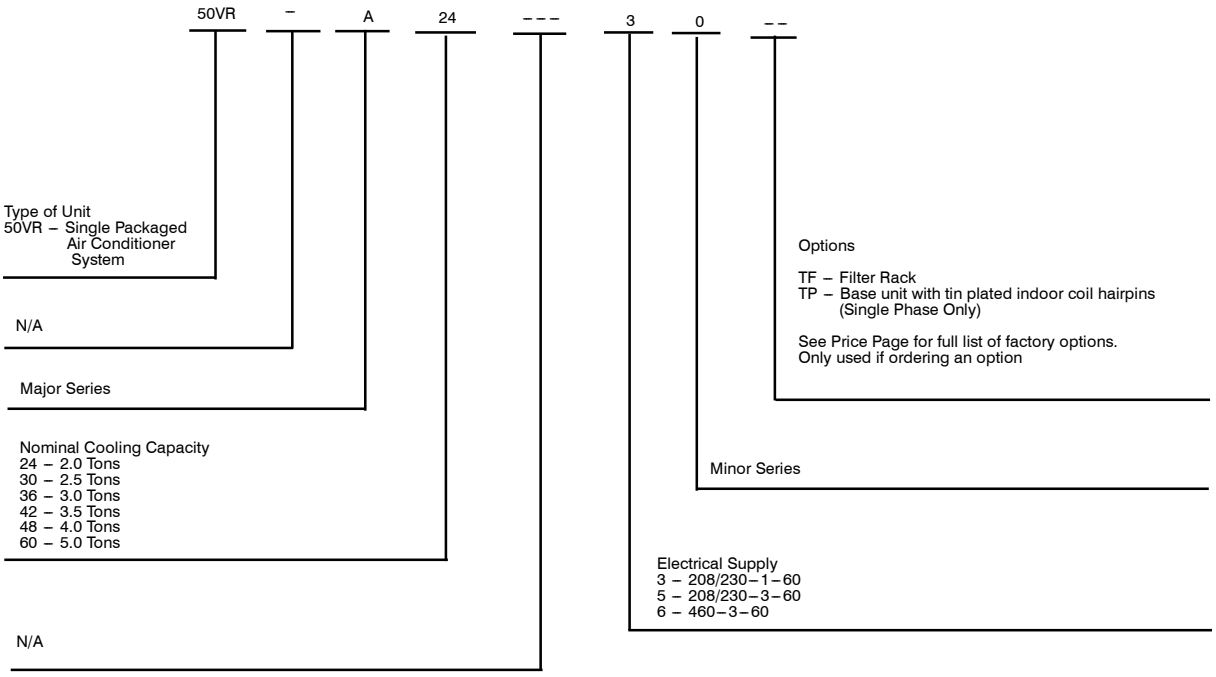
Cabinets are constructed of heavyduty, phosphated, zinc-coated prepainted steel capable of withstanding 500 hours in salt spray. Interior surfaces of the evaporator/electric heater compartment are insulated with foil-faced insulation, which keeps the conditioned air from being affected by the outdoor ambient temperature and provides improved indoor air quality. (Conforms to American Society of Heating, Refrigeration and Air Conditioning Engineers No. 62P.) The sloped drain pan minimizes standing water in the drain. An external drain is provided.

Short-Cycling protection for the compressor is incorporated into our defrost control board ensuring a five minute delay (+/-2 minutes) before restarting compressor after shutdown for any reason.

TABLE OF CONTENTS

FEATURES/BENEFITS 1
MODEL NUMBER NOMENCLATURE 3
AHRI CAPACITIES 4
PHYSICAL DATA 5
OPTIONS AND ACCESSORIES 6
BASE UNIT DIMENSIONS 7-8
ROOF CURB ACCESSORY 9
SELECTION PROCEDURE 10
PERFORMANCE DATA 11-35
TYPICAL PIPING AND WIRING 41
APPLICATION DATA 42
ELECTRICAL DATA 43-44
TYPICAL WIRING SCHEMATICS 45-50
CONTROLS 51
GUIDE SPECIFICATIONS 52-54

MODEL NUMBER NOMENCLATURE



c UL us LISTED

AHRI CERTIFIED™ www.ahridirectory.org

Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program For verification of certification for individual products, go to www.ahridirectory.org.

ASHRAE 90.1 COMPLIANT

energy ENERGY STAR

AHRI* CAPACITIES

Cooling Capacities and Efficiencies

Unit Model 50VR-A	Nominal Tons	Standard CFM (High / Low Stage)	Net Cooling Capacities - Btuh (High Stage)	EER @A**	SEER†
24	2	850 / 650	23000	12.0	15.0
30	2-1/2	1000 / 750	30000	12.0	15.0
36	3	1200 / 900	34000	12.0	15.0
42	3-1/2	1400 / 1050	42000	12.0	15.0
48	4	1600 / 1200	47500	12.5	15.5
60	5	1750 / 1200	57000	12.0	15.0

Heat Pump Heating Capacities and Efficiencies

Unit Model 50VR-A	Heating Capacity (BTUH) @ 47_F (8.3_C)	COP @ 47_F (8.3_C)	Heating Capacity (BTUH) @ 17_F (---8.3_C)	COP @ 17_F (---8.3_C)	HSPF	Heating Cd
24	23,000	3.8	11200	2.2	8.0	0.25
30	29,000	3.8	15400	2.3	8.0	0.25
36	34,000	3.7	17200	2.3	8.0	0.25
42	42,000	3.6	24000	2.5	8.0	0.25
48	47,000	3.7	26000	2.3	8.0	0.25
60	57,000	3.5	32400	2.4	8.5	0.25

LEGEND
dB–Sound Levels (decibels)
db—Dry Bulb
SEER—Seasonal Energy Efficiency Ratio
wb—Wet Bulb
COP–Coefficient of Performance
* Air Conditioning, Heating & Refrigeration Institute.
**At "A" conditions–80°F (26.7°C) indoor db/67°F (19.4°C) indoor wb & 95°F (35°C) outdoor db.
† Rated in accordance with U.S. Government DOE Department of Energy) test procedures and/or AHRI Standards 210/240.

Notes:
1. Ratings are net values, reflecting the effects of circulating fan heat. Ratings are based on:
Cooling Standard: 80°F (26.7°C) db, 67°F wb (19.4°C) indoor entering–air temperature and 95°F db (35°C) outdoor entering–air temperature.
2. Before purchasing this appliance, read important energy cost and efficiency information available from AHRIdirectory.org.

A-WEIGHTED SOUND POWER LEVEL (dBA)

Model 50VR-A	Sound Ratings (dBA)	TYPICAL OCTAVE BAND SPECTRUM(dBA without tone adjustment)						
		125	250	500	1000	2000	4000	8000
24	73	58.5	65	66.5	67	62	57.5	54.5
30	76	59	63	69	70	63.5	59	53.5
36	73	64	63.5	68	68	65.5	60.5	52.5
42	71	64	62	65	66	63.5	59.5	52.5
48	74	59.5	65	70	67	64.5	60.5	52.5
60	73	68	63	66	66	65	59.5	52.5

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

PHYSICAL DATA

UNIT SIZE	24	30	36	42	48	60
NOMINAL CAPACITY (ton)	2	2–1/2	3	3–1/2	4	5
SHIPPING WEIGHT lb.	356	364	420	466	462	511
SHIPPING WEIGHT (kg)	162	165	191	212	210	232
COMPRESSORS	Scroll					
Quantity	1					
REFRIGERANT (R–410A)						
Quantity lb	9.0	10.0	11.0	14.6	12.0	14.8
Quantity (kg)	4.1	4.5	5.0	6.6	5.4	6.7
REFRIGERANT METERING DEVICE	TXV, Indoor TXV					
ORIFICE						
ID (in.)	.032 (2)	.040 (2)	.042 (2)	.042 (2)	.042 (2)	.052 (2)
ID (mm)	0.81 (2)	1.02 (2)	1.07 (2)	1.07 (2)	1.07 (2)	1.32 (2)
OUTDOOR COIL						
Rows...Fins/in.	2...21	2...21	2...21	2...21	2...21	2...21
Face Area (sq ft)	13.6	15.3	13.6	19.4	17.5	23.3
OUTDOOR FAN						
Nominal Cfm	2100	2500	3000	3000	3300	3600
Diameter in.	24	24	26	26	26	26
Diameter (mm)	609.6	609.6	660.4	660.4	660.4	660.4
Motor Hp (Rpm)	1/12 (800)	1/8 (810)	1/5 (810)	1/5 (810)	1/5 (810)	1/5 (810)
INDOOR COIL						
Rows...Fins/in.	3...17	3...17	3...17	3...17	3...17	4...17
Face Area (sq ft)	3.7	3.7	4.7	4.7	5.7	5.7
INDOOR BLOWER						
Nominal Low Stage Cooling Airflow (Cfm)	650	750	900	1050	1200	1400
Nominal High Stage Cooling Airflow (Cfm)	850	1000	1200	1400	1600	1750
Size in.	10x10	10x10	11x10	11x10	11x10	11x10
Size (mm.)	254x254	254x254	279.4x254	279.4x254	279.4x254	279.4x254
Motor HP (RPM)	1/2 (1050)	1/2 (1050)	3/4 (1000)	3/4 (1075)	1.0 (1075)	1.0 (1075)
HIGH–PRESSURE SWITCH (psig) Cut–out	650 +/– 15					
Reset (Auto)	420 +/– 25					
LOW–PRESSURE SWITCH (psig) cut–out	20 +/– 5					
Reset (auto)	45 +/– 5					
RETURN–AIR FILTERS†‡						
Throwaway Size in.	20x20x1	20x24x1	24x30x1		24x36x1	
Throwaway Size (mm)	508x508x25	508x610x25	610x762x25		610x914x25	

† Required filter sizes shown are based on the larger of the AHRI (Air Conditioning Heating and Refrigeration Institute) rated cooling airflow or the heating airflow velocity of 300 ft/minute for throwaway type or 450 ft/minute for high–capacity type. Air filter pressure drop for non–standard filters must not exceed 0.08 in. W.C.

‡ If using accessory filter rack refer to the filter rack installation instructions for correct filter sizes and quantity.

Electric Heat Pressure Drop Tables (IN. W.C.)

Small Cabinet: 24–30

STATIC	STANDARD CFM (SCFM)											
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
5 kW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.06	0.07
10 kW	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.06	0.07	0.09	0.10	0.11
15 kW	0.00	0.00	0.00	0.02	0.04	0.06	0.08	0.10	0.12	0.14	0.16	0.18
20 kW	0.00	0.00	0.02	0.04	0.06	0.08	0.09	0.11	0.13	0.15	0.17	0.19

Large Cabinet: 36–60

STATIC	STANDARD CFM (SCFM)														
	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
5 kW	0.00	0.00	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12
10 kW	0.00	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13
15 kW	0.00	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15
20 kW	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16

OPTIONS AND ACCESSORIES

ITEM	DESCRIPTION	FACTORY INSTALLED OPTION	FIELD INSTALLED ACCESSORY
Coil Options	Base unit with tin plated indoor coil hairpins	X	
Compressor Start Kit	Compressor Start Kit assists compressor start–up by providing additional starting torque on sing phase units only.		X
Corporate Thermostats	Thermostats provide control for the system heating and cooling functions.		X
Crankcase Heater	Crankcase Heater provides anti–floodback protection for low–load cooling applications.		X*
Economizer	Vertical Economizer with Jade Honeywell W7220 Controller, Honeywell communicating actuator, and dry bulb sensor. (Contact MicroMetl Customer Service at 1–800–662–4822 to order.)		X
	Horizontal Economizer with Jade Honeywell W7220 Controller, Honeywell communicating actuator, and dry bulb sensor. (Contact MicroMetl Customer Service at 1–800–662–4822 to order.)		X
Electric Heaters	Electric Heat Supplement		X
Filter Rack	Filter Rack features easy installation, serviceability, and high–filtering performance for vertical applications. Includes 1–in. filter.	X	X
Flat Roof Curbs	Flat Roof Curbs in both 11–in (279 mm) and 14–in. (356 mm) sizes are available for roof mounted applications.		X
Low Ambient Kit	Low Ambient Kit (Motormaster II Control) allows the use of mechanical cooling down to outdoor temperatures as low as 0°F (–18° C) when properly installed.		X
Manual Outside Air Damper	Manual Outside Air Damper includes hood and filter rack with adjustable damper blade for up to 25% outdoor air.		X
Square–to–Round Duct Transition Kit	Square–to–Round Duct Transition Kit enable 24–48 size units to be fitted to 14 in (356 mm). round ductwork.		X
Time Guard II	Automatically prevents the compressor from restarting for at least 4 minutes and 45 seconds after shutdown of the compressor. Not required when a corporate programmable thermostat is applied or with a RTU–MP control.		X
Dual Point Electric Heaters	Allows you to power the electric heater and unit contactor separately by having two individual field power supply circuits connected respectively.		X

*Refer to Price Page for application detail.

Electric Heaters

CATALOG ORDERING NO.	NOMINAL CAPACITY (kW)	FUSE QTY	USED WITH SIZES					
			24	30	36	42	48	60
ELECTRIC HEATERS (208/230 — SINGLE PHASE — 60 Hz)								
CPHEATER052A00	5.0	–	X	X	X			
CPHEATER064A00	5.0	4	X	X	X	X	X	X
CPHEATER069A00	7.2	–	X					
CPHEATER070A00	7.2	4	X	X	X	X	X	X
CPHEATER050A00	10.0	4	X	X	X	X	X	X
CPHEATER066A00	15.0	4		X	X	X	X	X
CPHEATER054A00	20.0	6				X	X	X
ELECTRIC HEATERS (208/230 — THREE PHASE — 60 Hz)								
CPHEATER055A00	5.0	–		X	X	X	X	X
CPHEATER056A00	10.0	–		X	X	X	X	
CPHEATER068A00	10.0	6		X	X	X	X	X
CPHEATER058A00	20.0	6		X	X	X	X	X
CPHEATER059A01	20.0	6				X	X	X
ELECTRIC HEATERS (460 — THREE PHASE — 60 Hz)								
CPHEATER061A00	10.0	–			X	X	X	X
CPHEATER062A00	15.0	–			X	X	X	X
CPHEATER063A00	20.0	–				X	X	X

NOTE: Electric heaters are rated at 240v. Refer to Multiplication Factors table for other voltages.
X = Approved combinations.

Minimum Airflow for Safe Electric Heater Operation (CFM)

SIZE	24	30	36	42	48	60
Cfm	800	1000	1200	1400	1600	1750

UNIT	ELECTRICAL CHARACTERISTICS	UNIT WT.		UNIT HEIGHT IN/MM		CENTER OF GRAVITY IN/MM					
		LB	KG	"A"		X		Y		Z	
50VR-A24---30	208/230-1	348	157.9	44-1/8	1121	20-1/2	520.7	15-3/4	400.1	16-5/8	422.3
50VR-A30---(3/5)0	208/230-1, 208/230-3-60	356	161.5	46-1/8	1172	20-1/2	520.7	15-3/4	400.1	17-3/8	441.3

UNIT	VOLTAGE	CORNER WEIGHT LB/KG							
		"1"		"2"		"3"		"4"	
50VR-A24---30	208/230	41.8	23.7	55.7	31.6	83.5	47.4	139.2	55.2
50VR-A30---(3,5)0	208/230	42.7	24.2	57.0	32.3	85.4	48.4	142.4	56.5

NOTE: ALL TABLE DATA RELEVANT FOR ALL FACTORY INSTALLED OPTIONS EXCEPT ECONOMIZER

REQUIRED CLEARANCES TO COMBUSTIBLE MATL.

	INCHES [MM]
TOP OF UNIT	14 [355.6]
DUCT SIDE OF UNIT	2 [50.8]
SIDE OPPOSITE DUCTS	14 [355.6]
BOTTOM OF UNIT	0 [0.0]
ELECTRICAL PANEL	36 [914.4]

NEC. REQUIRED CLEARANCES.

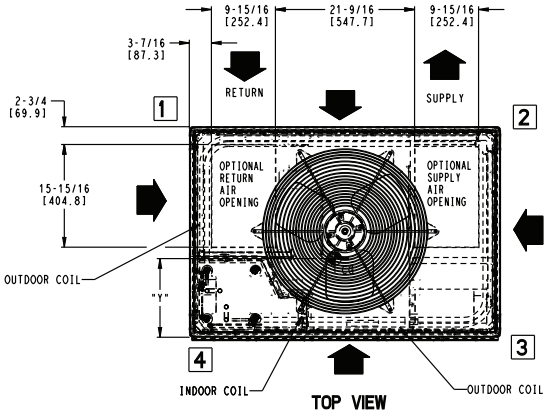
	INCHES [MM]
BETWEEN UNITS, POWER ENTRY SIDE	42 [1066.8]
UNIT AND UNGROUNDED SURFACES, POWER ENTRY SIDE	36 [914.0]
UNIT AND BLOCK OR CONCRETE WALLS AND OTHER GROUNDED SURFACES, POWER ENTRY SIDE	42 [1066.8]

REQUIRED CLEARANCE FOR OPERATION AND SERVICING

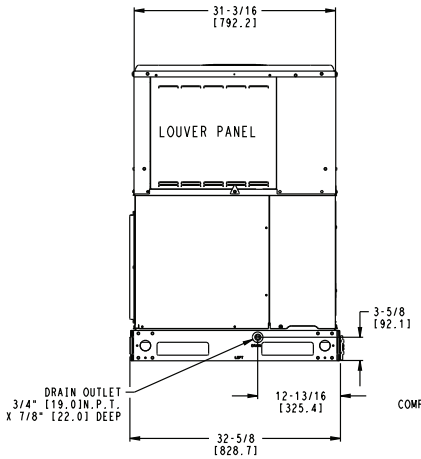
	INCHES [MM]
EVAP. COIL ACCESS SIDE	36 [914.0]
POWER ENTRY SIDE	42 [1066.8]
(EXCEPT FOR NEC REQUIREMENTS)	
UNIT TOP	48 [1219.2]
SIDE OPPOSITE DUCTS	36 [914.0]
DUCT PANEL	12 [304.8]*

*MINIMUM DISTANCES: IF UNIT IS PLACED LESS THAN 12 [304.8] FROM WALL SYSTEM, THEN SYSTEM PERFORMANCE MAYBE COMPROMISED.

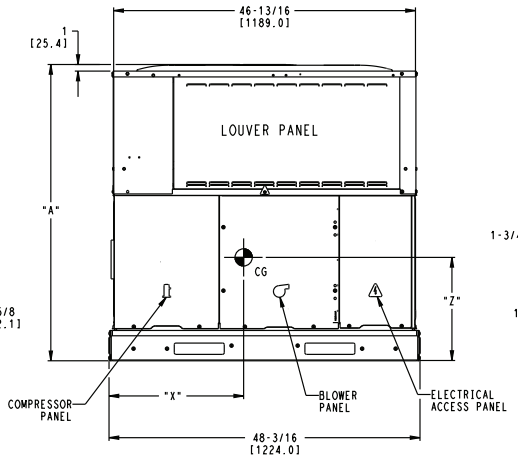
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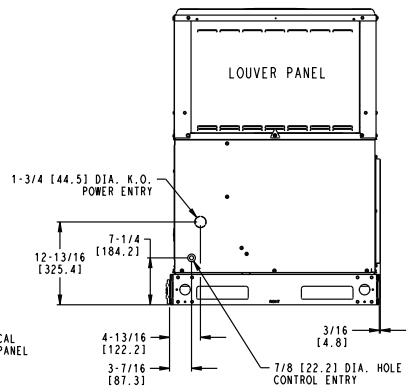
TOP VIEW



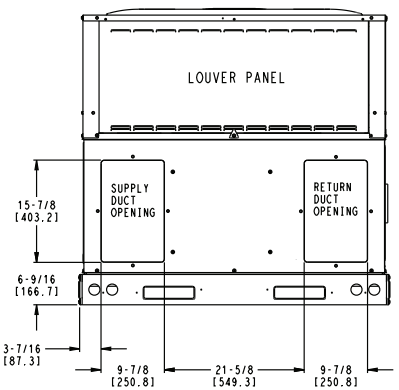
LEFT SIDE VIEW



FRONT VIEW



RIGHT SIDE VIEW



REAR VIEW

50VR500140	REV -

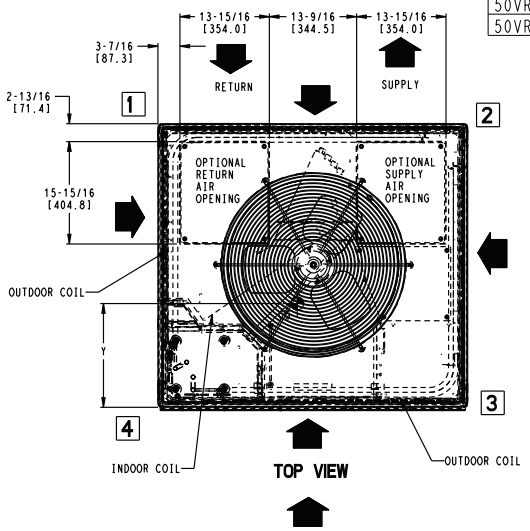
A13172

50VR-A

UNIT	ELECTRICAL CHARACTERISTICS	UNIT WT.		UNIT HEIGHT IN/MM		CENTER OF GRAVITY IN/MM					
		LB	KG	"A"		X		Y		Z	
50VR-A36---(3/5/6)0	208/230-1, 208/230-3-60, 460-3	413	187.3	44-3/4	1137	20-1/4	514.4	17-1/2	444.5	17-5/8	447.7
50VR-A42---(3/5/6)0	208/230-1, 208/230-3-60, 460-3	444	201.4	50-3/4	1289	20-1/4	514.4	17-1/2	444.5	17-5/8	447.7
50VR-A48---(3/5/6)0	208/230-1, 208/230-3-60, 460-3	447	202.8	48-3/4	1238	20-1/4	514.4	17-1/2	444.5	17-5/8	447.7
50VR-A60---(3/5/6)0	208/230-1, 208/230-3-60, 460-3	503	228.2	54-3/4	1391	20-1/4	514.4	17-1/2	444.5	18	457.2

UNIT	VOLTAGE	CORNER WEIGHTS LB/KG							
		"1"		"2"		"3"		"4"	
50VR-A36---(3/5/6)0	208/230/460	49.6	28.1	66.1	37.5	99.1	56.2	165.2	65.6
50VR-A42---(3/5/6)0	208/230/460	53.3	30.2	71.0	40.3	106.6	60.4	177.6	70.5
50VR-A48---(3/5/6)0	208/230/460	53.6	30.4	71.5	40.6	107.3	60.8	178.8	71.0
50VR-A60---(3/5/6)0	208/230/460	60.4	34.2	80.5	45.6	120.7	68.4	201.2	79.9

NOTE: ALL TABLE DATA RELEVANT FOR ALL FACTORY INSTALLED OPTIONS EXCEPT ECONOMIZER



TOP VIEW

REQUIRED CLEARANCES TO COMBUSTIBLE MATL.

	INCHES [MM]
TOP OF UNIT	14 [355.6]
DUCT SIDE OF UNIT	2 [50.8]
SIDE OPPOSITE DUCTS	14 [355.6]
BOTTOM OF UNIT	0 [0.0]
ELECTRICAL PANEL	36 [914.4]

NEC. REQUIRED CLEARANCES.

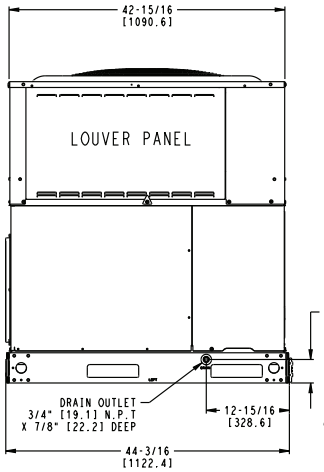
	INCHES [MM]
BETWEEN UNITS, POWER ENTRY SIDE	42 [1066.8]
UNIT AND UNGROUNDED SURFACES, POWER ENTRY SIDE	36 [914.0]
UNIT AND BLOCK OR CONCRETE WALLS AND OTHER GROUNDED SURFACES, POWER ENTRY SIDE	42 [1066.8]

REQUIRED CLEARANCE FOR OPERATION AND SERVICING

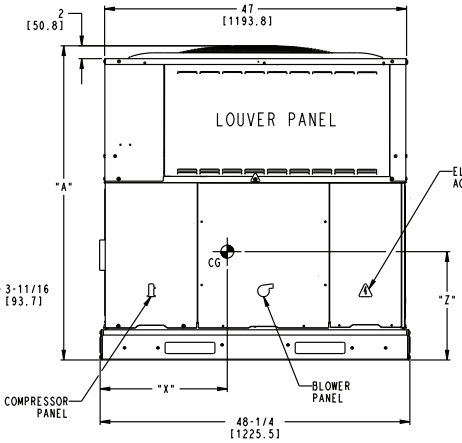
	INCHES [MM]
EVAP. COIL ACCESS SIDE	36 [914.0]
POWER ENTRY SIDE	42 [1066.8]
(EXCEPT FOR NEC REQUIREMENTS)	
UNIT TOP	48 [1219.2]
SIDE OPPOSITE DUCTS	36 [914.0]
DUCT PANEL	12 [304.8]*

*MINIMUM DISTANCES: IF UNIT IS PLACED LESS THAN 12 [304.8] FROM WALL SYSTEM, THEN SYSTEM PERFORMANCE MAYBE COMPROMISED.

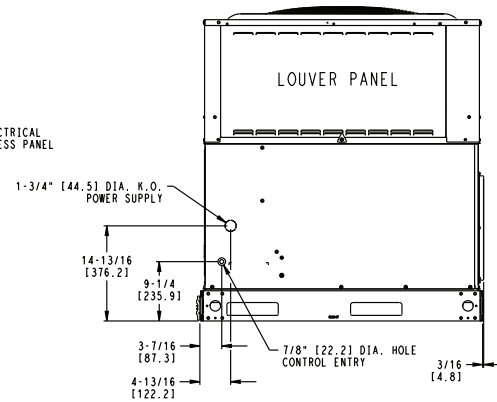
DIMENSIONS IN [] ARE IN MM



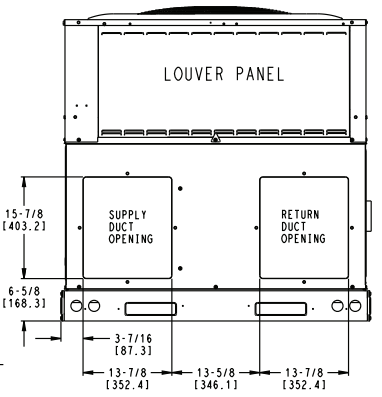
LEFT SIDE VIEW



FRONT VIEW



RIGHT SIDE VIEW



REAR VIEW

50VR500141	REV -

A13173

APPENDIX 10.2:

CADNAA OPERATIONAL NOISE CALCULATIONS

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13448 - Sumner Place

CadnaA Noise Prediction Model: 13448-03_Operation.cna
Date: 27.10.25
Analyst: B. Maddux

Calculation Configuration

Configuration	
Parameter	**Value**
General	
Max. Error (dB)	**0.00**
Max. Search Radius (ft)	**6561.70**
Min. Dist Src to Rcvr	**0.00**
Partition	
Raster Factor	**0.50**
Max. Length of Section (ft)	**3280.80**
Min. Length of Section (ft)	**3.30**
Min. Length of Section (%)	**0.00**
Proj. Line Sources	**On**
Proj. Area Sources	**On**
Ref. Time	
Daytime Penalty (dB)	**0.00**
Recr. Time Penalty (dB)	**5.00**
Night-time Penalty (dB)	**10.00**
DTM	
Standard Height (m)	**605.51**
Model of Terrain	**Triangulation**
Reflection	
max. Order of Reflection	**2**
Search Radius Src	**328.08**
Search Radius Rcvr	**328.08**
Max. Distance Source - Rcvr	**3280.84 3280.84**
Min. Distance Rvcr - Reflector	**3.28 3.28**
Min. Distance Source - Reflector	**0.33**
Industrial (ISO 9613 (1996))	
Lateral Diffraction	**some Obj**
Obst. within Area Src do not shield	**On**
Screening	**Incl. Ground Att. over Barrier**
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	**3.0 20.0 0.0**
Temperature (°F)	**50**
rel. Humidity (%)	**70**
Ground Absorption G	**0.50**
Wind Speed for Dir. (mph)	**6.7**
Roads (TNM)	
Railways (FTA/FRA)	
Aircraft (???)	
Strictly acc. to AzB	

Receiver Noise Levels

Name	M.	ID	Level Lr			Limit. Value			Land Use			Height		Coordinates		
			Day	Night	CNEL	Day	Night	CNEL	Type	Auto	Noise Type			X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)				(ft)		(ft)	(ft)	(ft)
R01		R01	38.3	36.1	42.8	50.0	45.0	0.0				5.00	r	6160061.25	2295908.63	624.40
R02		R02	45.9	43.4	50.1	50.0	45.0	0.0				5.00	r	6160337.87	2295609.95	620.12
R03		R03	47.0	44.4	51.1	50.0	45.0	0.0				5.00	r	6160334.81	2295403.31	618.51
R04		R04	46.8	44.2	50.9	50.0	45.0	0.0				5.00	r	6160329.37	2295221.10	618.75
R05		R05	40.9	38.8	45.5	50.0	45.0	0.0				5.00	r	6160071.38	2295077.93	613.70
R06		R06	41.4	39.1	45.8	50.0	45.0	0.0				5.00	r	6159883.63	2295094.81	615.51
R07		R07	38.4	36.2	42.9	50.0	45.0	0.0				5.00	r	6159590.52	2295235.96	615.51
R08		R08	38.5	36.3	43.0	50.0	45.0	0.0				5.00	r	6159581.07	2295398.05	615.51
R09		R09	37.6	35.5	42.2	50.0	45.0	0.0				5.00	r	6159583.77	2295699.94	619.58
R10		R10	35.4	33.4	40.1	50.0	45.0	0.0				5.00	r	6159568.23	2295903.90	629.51
R11		R11	37.8	35.6	42.3	50.0	45.0	0.0				5.00	r	6159839.73	2295899.85	623.51

Point Source(s)

Name	M.	ID	Result. PWL			Lw / Li			Operating Time			Height		Coordinates		
			Day	Evening	Night	Type	Value	norm.	Day	Special	Night			X	Y	Z
			(dBA)	(dBA)	(dBA)			dB(A)	(min)	(min)	(min)	(ft)		(ft)	(ft)	(ft)
AC001		AC001	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160301.66	2295708.78	614.51
AC002		AC002	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160301.23	2295704.01	614.51
AC003		AC003	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160301.01	2295698.80	614.52
AC004		AC004	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160301.23	2295686.00	614.51
AC005		AC005	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160300.80	2295681.66	614.51
AC006		AC006	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160301.01	2295677.32	614.51
AC007		AC007	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160301.01	2295672.54	614.51
AC008		AC008	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160300.36	2295611.13	614.51
AC009		AC009	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160300.80	2295615.47	614.51

Name	M.	ID	Result. PWL			Lw / Li			Operating Time			Height		Coordinates		
			Day	Evening	Night	Type	Value	norm.	Day	Special	Night			X	Y	Z
			(dBA)	(dBA)	(dBA)			dB(A)	(min)	(min)	(min)	(ft)		(ft)	(ft)	(ft)
AC010		AC010	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160300.58	2295602.01	614.48
AC011		AC011	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160300.58	2295628.27	614.51
AC012		AC012	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160301.23	2295638.26	614.51
AC013		AC013	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160300.80	2295633.48	614.51
AC014		AC014	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160300.58	2295606.79	614.51
AC015		AC015	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160300.80	2295575.54	614.47
AC016		AC016	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160300.36	2295570.76	614.44
AC017		AC017	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160299.93	2295548.41	614.38
AC018		AC018	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160300.15	2295565.56	614.40
AC019		AC019	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160300.36	2295552.75	614.39
AC020		AC020	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160300.15	2295544.07	614.38
AC021		AC021	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160300.15	2295539.30	614.38
AC022		AC022	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160300.15	2295499.15	614.35
AC023		AC023	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160299.71	2295476.80	614.33
AC024		AC024	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160300.15	2295481.14	614.35
AC025		AC025	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160299.93	2295472.46	614.34
AC026		AC026	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160299.93	2295467.68	614.34
AC027		AC027	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160300.58	2295503.92	614.36
AC028		AC028	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160299.93	2295493.94	614.35
AC029		AC029	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160298.84	2295401.28	614.14
AC030		AC030	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160299.71	2295428.40	614.38
AC031		AC031	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160299.06	2295418.42	614.18
AC032		AC032	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160299.28	2295405.62	614.15
AC033		AC033	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160299.06	2295396.94	614.15
AC034		AC034	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160299.28	2295423.63	614.27
AC035		AC035	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160299.06	2295392.16	614.16
AC036		AC036	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160298.19	2295346.81	614.13
AC037		AC037	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160298.19	2295325.32	613.51
AC038		AC038	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160298.41	2295334.00	613.60
AC039		AC039	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160298.19	2295320.55	613.51
AC040		AC040	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160298.41	2295352.01	614.21
AC041		AC041	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160297.98	2295329.66	613.51
AC042		AC042	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160298.84	2295356.79	614.21
AC043		AC043	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160298.41	2295273.67	613.48
AC044		AC044	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160298.84	2295296.46	613.90
AC045		AC045	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160297.98	2295269.33	613.48
AC046		AC046	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160298.19	2295264.99	613.48
AC047		AC047	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160298.19	2295260.22	613.49
AC048		AC048	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160298.19	2295286.48	613.51
AC049		AC049	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160298.41	2295291.68	613.71
AC050		AC050	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160297.54	2295201.84	613.50
AC051		AC051	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160297.32	2295193.16	613.50
AC052		AC052	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160297.11	2295197.50	613.50
AC053		AC053	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160297.32	2295188.39	613.50
AC054		AC054	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160297.54	2295219.85	613.49
AC055		AC055	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160297.98	2295224.63	613.49
AC056		AC056	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160297.32	2295214.64	613.50
AC057		AC057	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160076.62	2295185.35	612.51
AC058		AC058	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160071.85	2295185.56	612.51
AC059		AC059	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160065.99	2295185.56	612.51
AC060		AC060	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160066.42	2295304.05	612.72
AC061		AC061	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160070.98	2295304.27	612.74
AC062		AC062	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160076.62	2295304.27	612.76
AC063		AC063	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160026.49	2295186.65	612.51
AC064		AC064	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160031.27	2295186.43	612.51
AC065		AC065	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160025.62	2295305.36	612.76
AC066		AC066	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160020.63	2295186.65	612.51
AC067		AC067	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160021.07	2295305.14	612.76
AC068		AC068	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160031.27	2295305.36	612.75
AC069		AC069	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159937.73	2295185.35	611.72
AC070		AC070	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159931.87	2295185.35	611.67
AC071		AC071	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159942.51	2295304.05	612.71
AC072		AC072	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159932.31	2295303.84	612.68
AC073		AC073	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159942.51	2295185.13	611.76
AC074		AC074	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159936.86	2295304.05	612.70
AC075		AC075	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159798.41	2295304.92	613.51
AC076		AC076	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159808.61	2295305.14	613.36
AC077		AC077	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159808.61	2295186.22	612.51
AC078		AC078	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159802.97	2295305.14	613.51
AC079		AC079	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159803.83	2295186.43	612.51
AC080		AC080	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159797.98	2295186.43	612.51
AC081		AC081	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159901.27	2295304.27	612.69
AC082		AC082	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159895.63	2295304.27	612.70
AC083		AC083	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159891.07	2295304.05	612.71
AC084		AC084	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159890.64	2295185.56	611.65
AC085		AC085	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159896.50	2295185.56	611.55
AC086		AC086	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159901.27	2295185.35	611.51

Name	M.	ID	Result. PWL			Lw / Li			Operating Time			Height		Coordinates		
			Day	Evening	Night	Type	Value	norm.	Day	Special	Night			X	Y	Z
			(dBA)	(dBA)	(dBA)			dB(A)	(min)	(min)	(min)	(ft)		(ft)	(ft)	(ft)
AC087		AC087	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159731.14	2295196.85	612.77
AC088		AC088	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159735.26	2295196.85	612.79
AC089		AC089	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159740.03	2295196.20	612.80
AC090		AC090	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159730.48	2295312.95	614.07
AC091		AC091	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159733.96	2295313.39	614.04
AC092		AC092	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159738.73	2295313.39	613.99
AC093		AC093	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159736.56	2295329.23	614.13
AC094		AC094	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159741.33	2295328.58	614.08
AC095		AC095	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159732.44	2295329.23	614.17
AC096		AC096	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159735.91	2295427.75	614.51
AC097		AC097	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159732.44	2295427.32	614.51
AC098		AC098	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159740.25	2295482.01	614.51
AC099		AC099	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159736.13	2295580.10	614.60
AC100		AC100	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159739.60	2295580.53	614.60
AC101		AC101	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159736.13	2295482.01	614.51
AC102		AC102	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159745.02	2295481.35	614.51
AC103		AC103	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159744.81	2295596.37	614.80
AC104		AC104	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159740.03	2295597.02	614.80
AC105		AC105	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159735.91	2295597.02	614.80
AC106		AC106	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159759.56	2295713.99	616.12
AC107		AC107	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159766.94	2295714.21	616.08
AC108		AC108	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159763.04	2295714.43	616.11
AC109		AC109	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159804.05	2295715.08	615.78
AC110		AC110	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159807.96	2295715.08	615.74
AC111		AC111	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159811.86	2295715.08	615.71
AC112		AC112	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159802.10	2295599.41	615.05
AC113		AC113	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159805.79	2295598.98	615.05
AC114		AC114	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159809.91	2295598.54	615.06
AC115		AC115	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159903.23	2295715.73	615.52
AC116		AC116	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159901.27	2295599.19	614.96
AC117		AC117	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159899.32	2295715.73	615.53
AC118		AC118	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159893.46	2295600.06	615.05
AC119		AC119	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159897.15	2295599.63	615.01
AC120		AC120	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159895.41	2295715.73	615.54
AC121		AC121	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159942.94	2295598.32	614.51
AC122		AC122	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159940.99	2295714.86	615.47
AC123		AC123	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159938.82	2295598.76	614.51
AC124		AC124	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159937.08	2295714.86	615.51
AC125		AC125	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159935.13	2295599.19	614.51
AC126		AC126	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159944.89	2295714.86	615.41
AC127		AC127	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160026.06	2295598.32	614.34
AC128		AC128	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160031.92	2295713.99	615.30
AC129		AC129	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160033.87	2295597.46	614.35
AC130		AC130	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160029.75	2295597.89	614.35
AC131		AC131	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160035.82	2295713.99	615.29
AC132		AC132	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160028.01	2295713.99	615.31
AC133		AC133	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160074.45	2295713.78	614.88
AC134		AC134	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160076.40	2295597.24	614.25
AC135		AC135	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160078.36	2295713.78	614.81
AC136		AC136	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160072.28	2295597.67	614.27
AC137		AC137	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160070.54	2295713.78	614.94
AC138		AC138	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160068.59	2295598.11	614.28
AC139		AC139	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160069.69	2295383.50	613.51
AC140		AC140	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160073.51	2295383.50	613.51
AC141		AC141	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160077.51	2295383.15	613.51
AC142		AC142	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160081.50	2295382.97	613.51
AC143		AC143	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160099.56	2295519.26	613.63
AC144		AC144	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160103.72	2295518.91	613.63
AC145		AC145	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160107.72	2295519.09	613.63
AC146		AC146	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160032.02	2295383.32	613.51
AC147		AC147	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160035.32	2295383.15	613.51
AC148		AC148	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160038.79	2295383.15	613.51
AC149		AC149	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160042.61	2295382.97	613.51
AC150		AC150	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160015.88	2295520.30	613.51
AC151		AC151	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160012.40	2295519.95	613.51
AC152		AC152	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6160008.24	2295519.95	613.51
AC153		AC153	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159966.22	2295520.30	613.68
AC154		AC154	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159970.04	2295520.65	613.68
AC155		AC155	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159973.51	2295520.47	613.68
AC156		AC156	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159948.17	2295384.02	613.29
AC157		AC157	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159944.17	2295383.84	613.30
AC158		AC158	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159939.83	2295383.84	613.31
AC159		AC159	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159936.36	2295384.02	613.32
AC160		AC160	76.0	76.0	76.0	Lw	76		675.00	0.00	270.00	3.00	r	6159885.84	2295384.88	613.44

Line Source(s)

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li			Operating Time			Moving Pt. Src				Height
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Special	Night	Number			Speed	
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	(min)	(min)	(min)	Day	Evening	Night	(mph)	(ft)

Name	ID	Height		Coordinates			
		Begin	End	x	y	z	Ground
		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)

Area Source(s)

Name	M.	ID	Result. PWL			Result. PWL''			Lw / Li			Operating Time			Height	
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Special	Night	(ft)	
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	(min)	(min)	(min)		
PARK1		PARK1	81.4	81.4	81.4	54.7	54.7	54.7	Lw	81.4					5	g
PARK2		PARK2	81.4	81.4	81.4	54.7	54.7	54.7	Lw	81.4					5	g
PARK3		PARK3	81.4	81.4	81.4	58.3	58.3	58.3	Lw	81.4					5	g
PARK4		PARK4	81.4	81.4	81.4	57.8	57.8	57.8	Lw	81.4					5	g
PARK5		PARK5	81.4	81.4	81.4	54.8	54.8	54.8	Lw	81.4					5	g
PARK6		PARK6	81.4	81.4	81.4	54.4	54.4	54.4	Lw	81.4					5	g
PARK7		PARK7	81.4	81.4	81.4	58.5	58.5	58.5	Lw	81.4					5	g

Name	ID	Height		Coordinates			
		Begin	End	x	y	z	Ground
		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
PARK1	PARK1	5.00	g	6159828.69	2295546.92	616.43	611.43
				6160109.15	2295545.36	616.43	610.86
				6160109.41	2295527.13	616.43	610.71
				6159828.16	2295528.96	616.43	611.25
PARK2	PARK2	5.00	g	6159812.80	2295590.94	616.96	611.96
				6160104.21	2295588.85	616.96	611.10
				6160104.47	2295571.66	616.96	611.03
				6159813.32	2295573.49	616.96	611.72
PARK3	PARK3	5.00	g	6160115.48	2295721.27	616.51	611.51
				6160132.93	2295721.27	616.51	611.51
				6160132.93	2295597.06	616.51	611.07
				6160114.96	2295597.84	616.51	611.09
PARK4	PARK4	5.00	g	6159818.87	2295520.23	616.15	611.15
				6159818.35	2295385.08	616.15	610.51
				6159800.38	2295384.56	616.15	611.30
				6159800.64	2295520.23	616.15	611.16
PARK5	PARK5	5.00	g	6159827.72	2295375.44	615.48	610.48
				6160106.11	2295373.88	615.48	610.51
				6160106.37	2295356.43	615.48	610.34
				6159827.20	2295357.21	615.48	610.30
PARK6	PARK6	5.00	g	6159810.01	2295313.98	615.39	610.39
				6159809.49	2295331.69	615.39	610.46
				6160111.32	2295330.65	615.39	610.09
				6160111.05	2295312.16	615.39	609.90
PARK7	PARK7	5.00	g	6160112.88	2295305.39	614.85	609.85
				6160130.59	2295305.39	614.85	609.93
				6160128.24	2295182.47	614.85	609.51
				6160112.10	2295182.73	614.85	609.51

Building(s)

Name	Sel.	M.	ID	RB	Residents	Absorption	Height		Coordinates			
							Begin		x	y	z	Ground
							(ft)		(ft)	(ft)	(ft)	(ft)
BUILDING			BUILDING00001	x	0		0.00	a	6159731.12	2295711.36	0.00	613.31
									6159771.91	2295711.58	0.00	613.02
									6159771.48	2295599.38	0.00	611.96
									6159730.68	2295600.25	0.00	611.84
BUILDING			BUILDING00002	x	0		0.00	a	6159800.34	2295712.88	0.00	612.80
									6159841.79	2295712.67	0.00	612.61
									6159840.71	2295601.55	0.00	612.18
									6159799.48	2295601.77	0.00	612.08
BUILDING			BUILDING00003	x	0		0.00	a	6159864.15	2295712.01	0.00	612.56
									6159904.73	2295712.23	0.00	612.51
									6159904.51	2295600.47	0.00	611.96
									6159863.06	2295601.12	0.00	612.16
BUILDING			BUILDING00004	x	0		0.00	a	6159933.37	2295711.80	0.00	612.51
									6159974.39	2295711.58	0.00	612.06
									6159973.95	2295601.12	0.00	611.51
									6159932.94	2295600.47	0.00	611.51
BUILDING			BUILDING00005	x	0		0.00	a	6159996.96	2295711.58	0.00	612.15
									6160037.54	2295710.93	0.00	612.24
									6160037.32	2295599.60	0.00	611.35
									6159996.52	2295600.47	0.00	611.45
BUILDING			BUILDING00006	x	0		0.00	a	6160066.19	2295710.28	0.00	612.00
									6160107.20	2295710.06	0.00	611.51

Name	Sel.	M.	ID	RB	Residents	Absorption	Height		Coordinates			
							Begin		x	y	z	Ground
							(ft)		(ft)	(ft)	(ft)	(ft)
									6160106.77	2295599.82	0.00	611.13
									6160065.32	2295599.38	0.00	611.29
BUILDING			BUILDING00007	x	0		0.00	a	6160166.23	2295712.67	0.00	611.51
									6160298.39	2295711.80	0.00	611.51
									6160297.96	2295670.78	0.00	611.51
									6160166.23	2295671.43	0.00	611.51
BUILDING			BUILDING00008	x	0		0.00	a	6160166.01	2295643.44	0.00	611.47
									6160298.17	2295642.57	0.00	611.51
									6160297.96	2295601.12	0.00	611.46
									6160165.36	2295601.99	0.00	611.18
BUILDING			BUILDING00009	x	0		0.00	a	6160164.93	2295579.42	0.00	611.02
									6160297.74	2295578.98	0.00	611.45
									6160297.52	2295537.54	0.00	611.33
									6160164.93	2295538.19	0.00	610.73
BUILDING			BUILDING00010	x	0		0.00	a	6160164.93	2295510.41	0.00	610.54
									6160297.09	2295509.32	0.00	611.31
									6160297.30	2295468.74	0.00	611.28
									6160164.93	2295469.18	0.00	610.51
BUILDING			BUILDING00011	x	0		0.00	a	6160296.87	2295431.42	0.00	611.31
									6160296.22	2295389.31	0.00	611.04
									6160163.62	2295390.62	0.00	610.51
									6160164.28	2295432.50	0.00	610.51
BUILDING			BUILDING00012	x	0		0.00	a	6160164.06	2295362.84	0.00	610.51
									6160296.00	2295361.97	0.00	611.09
									6160296.00	2295320.52	0.00	610.51
									6160163.62	2295321.39	0.00	610.16
BUILDING			BUILDING00013	x	0		0.00	a	6160163.41	2295299.04	0.00	609.92
									6160295.13	2295297.95	0.00	610.51
									6160295.35	2295256.50	0.00	610.46
									6160162.97	2295256.94	0.00	609.51
BUILDING			BUILDING00014	x	0		0.00	a	6160163.41	2295229.59	0.00	609.51
									6160294.92	2295228.94	0.00	610.45
									6160295.13	2295187.06	0.00	610.47
									6160162.76	2295188.14	0.00	609.54
BUILDING			BUILDING00015	x	0		0.00	a	6160063.15	2295300.77	0.00	609.67
									6160104.38	2295299.91	0.00	609.76
									6160103.51	2295189.01	0.00	609.51
									6160062.93	2295189.23	0.00	609.51
BUILDING			BUILDING00016	x	0		0.00	a	6159993.27	2295300.99	0.00	609.66
									6160034.94	2295300.77	0.00	609.68
									6160034.28	2295189.45	0.00	609.51
									6159992.40	2295189.66	0.00	609.30
BUILDING			BUILDING00017	x	0		0.00	a	6159930.33	2295301.64	0.00	609.66
									6159972.00	2295301.21	0.00	609.70
									6159970.70	2295190.10	0.00	609.03
									6159929.68	2295190.53	0.00	608.62
BUILDING			BUILDING00018	x	0		0.00	a	6159860.89	2295302.08	0.00	609.67
									6159901.91	2295302.08	0.00	609.66
									6159901.47	2295190.31	0.00	608.51
									6159860.24	2295190.53	0.00	609.17
BUILDING			BUILDING00019	x	0		0.00	a	6159797.74	2295302.51	0.00	610.51
									6159838.75	2295301.86	0.00	609.77
									6159838.10	2295191.18	0.00	609.49
									6159796.87	2295191.83	0.00	609.59
BUILDING			BUILDING00020	x	0		0.00	a	6159728.08	2295309.89	0.00	611.07
									6159769.31	2295309.67	0.00	610.63
									6159768.23	2295198.78	0.00	610.00
									6159727.21	2295199.21	0.00	609.78
BUILDING			BUILDING00021	x	0		0.00	a	6159728.73	2295422.95	0.00	611.51
									6159769.96	2295422.73	0.00	611.28
									6159769.31	2295333.33	0.00	610.82
									6159728.08	2295333.54	0.00	611.24
BUILDING			BUILDING00022	x	0		0.00	a	6159730.25	2295576.60	0.00	611.55
									6159769.96	2295576.38	0.00	611.69
									6159770.83	2295486.54	0.00	611.32
									6159729.38	2295486.54	0.00	611.51
BUILDING			BUILDING00023	x	0		0.00	a	6159855.03	2295402.77	0.00	610.51
									6159862.19	2295403.42	0.00	610.51
									6159861.98	2295401.25	0.00	610.51
									6159872.17	2295401.25	0.00	610.51
									6159872.61	2295404.94	0.00	610.51
									6159891.92	2295404.72	0.00	610.51
									6159892.36	2295387.14	0.00	610.45
									6159882.81	2295387.14	0.00	610.47
									6159883.03	2295385.19	0.00	610.45
									6159870.87	2295384.97	0.00	610.47
									6159870.22	2295387.36	0.00	610.50

Name	Sel.	M.	ID	RB	Residents	Absorption	Height		Coordinates			
							Begin		x	y	z	Ground
							(ft)		(ft)	(ft)	(ft)	(ft)
									6159860.89	2295386.71	0.00	610.51
									6159861.11	2295389.31	0.00	610.51
									6159855.90	2295390.40	0.00	610.51
BUILDING			BUILDING00024	x	0		0.00	a	6159935.76	2295518.22	0.00	610.70
									6159976.56	2295517.79	0.00	610.61
									6159976.56	2295385.41	0.00	610.39
									6159934.67	2295386.06	0.00	610.34
BUILDING			BUILDING00025	x	0		0.00	a	6160005.20	2295517.79	0.00	610.51
									6160046.65	2295517.35	0.00	610.55
									6160045.79	2295385.41	0.00	610.51
									6160004.77	2295386.06	0.00	610.47
BUILDING			BUILDING00026	x	0		0.00	a	6160068.57	2295517.35	0.00	610.59
									6160109.59	2295517.14	0.00	610.62
									6160109.37	2295385.41	0.00	610.51
									6160067.49	2295385.19	0.00	610.51

Contour(s)

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
CONTOURS_EX			CONTOURS_EX00001		605.51		6160554.82	2294979.90	605.51
							6159389.47	2294998.60	605.51
							6159406.20	2296058.64	605.51
							6160564.67	2296059.62	605.51
							6160554.82	2294979.90	605.51
CONTOURS_EX			CONTOURS_EX00002		606.51		6159509.55	2295166.88	606.51
							6159511.91	2295170.25	606.51
							6159506.59	2295170.64	606.51
							6159509.55	2295166.88	606.51
CONTOURS_EX			CONTOURS_EX00003		606.51		6159515.45	2295125.48	606.51
							6159528.83	2295127.93	606.51
							6159528.95	2295136.11	606.51
							6159520.12	2295138.61	606.51
							6159510.98	2295130.03	606.51
							6159511.11	2295126.55	606.51
							6159515.45	2295125.48	606.51
CONTOURS_EX			CONTOURS_EX00004		606.51		6160085.33	2295081.07	606.51
							6160089.84	2295088.16	606.51
							6160085.48	2295094.21	606.51
							6160082.37	2295096.03	606.51
							6160074.51	2295093.34	606.51
							6160074.40	2295083.14	606.51
							6160085.33	2295081.07	606.51
CONTOURS_EX			CONTOURS_EX00005		606.51		6160554.82	2294979.90	606.51
							6159389.47	2294998.60	606.51
							6159406.20	2296058.64	606.51
							6160564.67	2296059.62	606.51
							6160554.82	2294979.90	606.51
CONTOURS_EX			CONTOURS_EX00006		607.51		6159485.93	2295241.67	607.51
							6159488.81	2295249.58	607.51
							6159485.93	2295255.35	607.51
							6159481.62	2295248.23	607.51
							6159485.93	2295241.67	607.51
CONTOURS_EX			CONTOURS_EX00007		607.51		6159487.89	2295206.32	607.51
							6159492.04	2295218.09	607.51
							6159483.96	2295233.68	607.51
							6159468.90	2295228.22	607.51
							6159467.81	2295217.10	607.51
							6159487.89	2295206.32	607.51
CONTOURS_EX			CONTOURS_EX00008		607.51		6160089.27	2295074.37	607.51
							6160098.03	2295083.24	607.51
							6160099.04	2295091.12	607.51
							6160084.35	2295102.78	607.51
							6160072.54	2295100.25	607.51
							6160069.36	2295087.18	607.51
							6160071.78	2295081.27	607.51
							6160080.41	2295074.47	607.51
							6160089.27	2295074.37	607.51
CONTOURS_EX			CONTOURS_EX00009		607.51		6159452.46	2295027.13	607.51
							6159454.54	2295035.01	607.51
							6159461.00	2295038.29	607.51
							6159473.13	2295034.57	607.51
							6159486.13	2295037.76	607.51
							6159490.25	2295061.59	607.51
							6159486.73	2295077.34	607.51
							6159489.99	2295098.99	607.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159495.71	2295105.94	607.51
							6159507.58	2295115.16	607.51
							6159557.78	2295126.10	607.51
							6159577.46	2295127.08	607.51
							6159579.98	2295136.39	607.51
							6159576.70	2295147.22	607.51
							6159584.73	2295164.94	607.51
							6159577.46	2295173.10	607.51
							6159540.31	2295177.73	607.51
							6159524.31	2295188.72	607.51
							6159499.70	2295191.70	607.51
							6159487.89	2295206.25	607.51
							6159474.34	2295203.09	607.51
							6159465.95	2295197.12	607.51
							6159460.44	2295209.12	607.51
							6159463.23	2295219.07	607.51
							6159461.94	2295230.88	607.51
							6159451.48	2295245.61	607.51
							6159446.56	2295242.44	607.51
							6159443.94	2295228.91	607.51
							6159444.64	2295197.36	607.51
							6159440.18	2295184.62	607.51
							6159441.57	2295167.89	607.51
							6159436.43	2295139.35	607.51
							6159440.51	2295095.05	607.51
							6159445.57	2295084.32	607.51
							6159460.71	2295096.65	607.51
							6159464.27	2295106.91	607.51
							6159473.13	2295105.13	607.51
							6159476.75	2295098.01	607.51
							6159471.43	2295081.27	607.51
							6159472.92	2295072.42	607.51
							6159468.21	2295062.71	607.51
							6159460.39	2295057.65	607.51
							6159446.56	2295080.59	607.51
							6159445.11	2295078.32	607.51
							6159445.21	2295072.06	607.51
							6159450.98	2295068.48	607.51
							6159446.22	2295063.89	607.51
							6159447.97	2295057.65	607.51
							6159444.87	2295032.06	607.51
							6159452.46	2295027.13	607.51
CONTOURS_EX			CONTOURS_EX00010		607.51		6159480.02	2295003.69	607.51
							6159485.85	2295024.26	607.51
							6159483.96	2295030.71	607.51
							6159473.91	2295013.36	607.51
							6159480.02	2295003.69	607.51
CONTOURS_EX			CONTOURS_EX00011		607.51		6160554.82	2294979.90	607.51
							6159609.94	2294994.66	607.51
							6159585.60	2294995.64	607.51
							6159581.24	2295003.52	607.51
							6159576.48	2295005.17	607.51
							6159573.25	2295003.79	607.51
							6159572.26	2294995.64	607.51
							6159389.47	2294998.60	607.51
							6159406.20	2296058.64	607.51
							6160564.67	2296059.62	607.51
							6160554.82	2294979.90	607.51
CONTOURS_EX			CONTOURS_EX00012		608.51		6159453.45	2295326.68	608.51
							6159453.45	2295326.68	608.51
CONTOURS_EX			CONTOURS_EX00013		608.51		6159901.28	2295186.49	608.51
							6159918.08	2295193.41	608.51
							6159923.64	2295200.37	608.51
							6159897.34	2295199.39	608.51
							6159898.80	2295186.59	608.51
							6159901.28	2295186.49	608.51
CONTOURS_EX			CONTOURS_EX00014		608.51		6159906.20	2295157.84	608.51
							6159898.86	2295161.00	608.51
							6159906.20	2295157.84	608.51
CONTOURS_EX			CONTOURS_EX00015		608.51		6159907.19	2295126.48	608.51
							6159906.37	2295130.49	608.51
							6159903.56	2295130.17	608.51
							6159902.30	2295127.53	608.51
							6159907.19	2295126.48	608.51
CONTOURS_EX			CONTOURS_EX00016		608.51		6159890.45	2295124.45	608.51
							6159900.29	2295127.53	608.51
							6159884.55	2295135.79	608.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159879.63	2295133.10	608.51
							6159880.45	2295125.57	608.51
							6159890.45	2295124.45	608.51
CONTOURS_EX			CONTOURS_EX00017		608.51		6159657.23	2295096.98	608.51
							6159646.66	2295101.64	608.51
							6159652.26	2295104.35	608.51
							6159658.79	2295099.61	608.51
							6159657.23	2295096.98	608.51
CONTOURS_EX			CONTOURS_EX00018		608.51		6159756.59	2295079.19	608.51
							6159765.88	2295082.82	608.51
							6159764.12	2295088.16	608.51
							6159757.29	2295086.20	608.51
							6159756.59	2295079.19	608.51
CONTOURS_EX			CONTOURS_EX00019		608.51		6160092.22	2295069.42	608.51
							6160105.98	2295084.23	608.51
							6160105.00	2295095.04	608.51
							6160094.33	2295105.88	608.51
							6160086.04	2295109.54	608.51
							6160071.56	2295107.48	608.51
							6160066.75	2295083.24	608.51
							6160080.41	2295070.42	608.51
							6160092.22	2295069.42	608.51
CONTOURS_EX			CONTOURS_EX00020		608.51		6159599.96	2294995.64	608.51
							6159592.89	2294995.64	608.51
							6159590.24	2295004.49	608.51
							6159578.45	2295013.29	608.51
							6159568.83	2295007.23	608.51
							6159566.30	2294995.64	608.51
							6159495.50	2294996.63	608.51
							6159502.20	2295040.92	608.51
							6159499.26	2295079.31	608.51
							6159503.65	2295097.02	608.51
							6159509.55	2295102.15	608.51
							6159521.36	2295098.83	608.51
							6159558.20	2295110.37	608.51
							6159567.05	2295116.29	608.51
							6159579.72	2295117.00	608.51
							6159606.00	2295098.91	608.51
							6159609.52	2295056.67	608.51
							6159621.75	2295046.80	608.51
							6159635.53	2295045.75	608.51
							6159639.59	2295050.76	608.51
							6159634.55	2295054.61	608.51
							6159634.17	2295065.53	608.51
							6159623.94	2295076.58	608.51
							6159623.60	2295084.35	608.51
							6159632.58	2295093.44	608.51
							6159640.66	2295089.35	608.51
							6159644.47	2295068.48	608.51
							6159655.35	2295053.72	608.51
							6159654.30	2295040.92	608.51
							6159658.51	2295033.69	608.51
							6159655.22	2295032.14	608.51
							6159644.39	2295036.82	608.51
							6159632.58	2295022.47	608.51
							6159604.80	2295004.72	608.51
							6159599.96	2294995.64	608.51
CONTOURS_EX			CONTOURS_EX00021		608.51		6160554.82	2294979.90	608.51
							6159688.59	2294993.68	608.51
							6159693.53	2295035.01	608.51
							6159682.46	2295055.68	608.51
							6159692.99	2295114.74	608.51
							6159682.78	2295119.37	608.51
							6159664.08	2295120.04	608.51
							6159647.34	2295131.07	608.51
							6159634.35	2295152.14	608.51
							6159620.43	2295188.56	608.51
							6159613.97	2295193.57	608.51
							6159579.59	2295181.50	608.51
							6159564.67	2295179.94	608.51
							6159552.72	2295183.50	608.51
							6159551.93	2295186.65	608.51
							6159517.42	2295210.33	608.51
							6159505.61	2295212.98	608.51
							6159498.67	2295224.98	608.51
							6159504.70	2295254.50	608.51
							6159490.16	2295279.41	608.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159493.61	2295296.83	608.51
							6159491.29	2295307.65	608.51
							6159481.99	2295315.14	608.51
							6159474.65	2295310.07	608.51
							6159468.24	2295310.63	608.51
							6159454.41	2295325.39	608.51
							6159443.70	2295292.99	608.51
							6159437.81	2295252.53	608.51
							6159428.76	2295227.93	608.51
							6159431.49	2295212.86	608.51
							6159427.58	2295177.73	608.51
							6159429.22	2295166.90	608.51
							6159418.38	2295136.39	608.51
							6159417.16	2295124.58	608.51
							6159429.45	2295097.02	608.51
							6159431.57	2295072.42	608.51
							6159429.36	2295045.84	608.51
							6159422.97	2295037.97	608.51
							6159430.81	2295032.05	608.51
							6159434.33	2295024.19	608.51
							6159433.35	2294997.61	608.51
							6159389.47	2294998.60	608.51
							6159406.20	2296058.64	608.51
							6160564.67	2296059.62	608.51
							6160554.82	2294979.90	608.51
CONTOURS_EX			CONTOURS_EX00022		609.51		6159459.35	2295538.91	609.51
							6159464.18	2295545.75	609.51
							6159457.50	2295541.78	609.51
							6159459.35	2295538.91	609.51
CONTOURS_EX			CONTOURS_EX00023		609.51		6159461.42	2295370.54	609.51
							6159457.94	2295374.58	609.51
							6159459.35	2295379.79	609.51
							6159466.43	2295376.73	609.51
							6159461.42	2295370.54	609.51
CONTOURS_EX			CONTOURS_EX00024		609.51		6160208.37	2295193.42	609.51
							6160216.55	2295201.35	609.51
							6160219.82	2295216.12	609.51
							6160214.27	2295221.68	609.51
							6160190.65	2295218.09	609.51
							6160195.57	2295210.21	609.51
							6160192.95	2295201.35	609.51
							6160208.37	2295193.42	609.51
CONTOURS_EX			CONTOURS_EX00025		609.51		6159843.27	2295168.81	609.51
							6159828.34	2295173.69	609.51
							6159827.01	2295183.64	609.51
							6159843.68	2295183.12	609.51
							6159843.27	2295168.81	609.51
CONTOURS_EX			CONTOURS_EX00026		609.51		6160027.36	2295165.82	609.51
							6160021.99	2295166.90	609.51
							6160025.30	2295169.34	609.51
							6160027.36	2295165.82	609.51
CONTOURS_EX			CONTOURS_EX00027		609.51		6160114.86	2295154.81	609.51
							6160113.88	2295166.82	609.51
							6160109.76	2295160.01	609.51
							6160114.86	2295154.81	609.51
CONTOURS_EX			CONTOURS_EX00028		609.51		6160018.50	2295128.42	609.51
							6160014.92	2295129.95	609.51
							6160016.44	2295135.12	609.51
							6160022.84	2295135.41	609.51
							6160018.50	2295128.42	609.51
CONTOURS_EX			CONTOURS_EX00029		609.51		6160110.93	2295124.46	609.51
							6160118.25	2295129.50	609.51
							6160113.88	2295138.78	609.51
							6160108.96	2295138.84	609.51
							6160104.31	2295134.42	609.51
							6160101.67	2295125.57	609.51
							6160110.93	2295124.46	609.51
CONTOURS_EX			CONTOURS_EX00030		609.51		6160092.22	2295063.97	609.51
							6160110.64	2295083.24	609.51
							6160108.59	2295105.51	609.51
							6160105.02	2295110.16	609.51
							6160076.53	2295124.53	609.51
							6160077.04	2295120.64	609.51
							6160067.62	2295109.61	609.51
							6160059.45	2295107.16	609.51
							6160061.90	2295086.20	609.51
							6160079.43	2295066.44	609.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160092.22	2295063.97	609.51
CONTOURS_EX			CONTOURS_EX00031		609.51		6159748.72	2295059.61	609.51
							6159780.84	2295076.71	609.51
							6159779.03	2295081.27	609.51
							6159764.47	2295092.88	609.51
							6159748.03	2295087.18	609.51
							6159744.78	2295080.75	609.51
							6159730.76	2295069.46	609.51
							6159733.09	2295065.64	609.51
							6159740.28	2295065.94	609.51
							6159744.74	2295059.58	609.51
							6159748.72	2295059.61	609.51
CONTOURS_EX			CONTOURS_EX00032		609.51		6159557.78	2295040.89	609.51
							6159564.29	2295042.28	609.51
							6159566.84	2295047.81	609.51
							6159560.73	2295061.27	609.51
							6159554.39	2295043.87	609.51
							6159557.78	2295040.89	609.51
CONTOURS_EX			CONTOURS_EX00033		609.51		6159993.80	2295037.26	609.51
							6159993.80	2295040.36	609.51
							6159993.80	2295037.26	609.51
CONTOURS_EX			CONTOURS_EX00034		609.51		6159759.55	2295004.41	609.51
							6159759.55	2295008.66	609.51
							6159759.55	2295004.41	609.51
CONTOURS_EX			CONTOURS_EX00035		609.51		6159413.30	2294998.60	609.51
							6159389.47	2294998.60	609.51
							6159391.44	2295132.93	609.51
							6159394.81	2295112.77	609.51
							6159415.72	2295092.10	609.51
							6159411.83	2295067.77	609.51
							6159404.51	2295058.36	609.51
							6159400.18	2295044.86	609.51
							6159404.87	2295031.71	609.51
							6159420.10	2295022.22	609.51
							6159413.30	2294998.60	609.51
CONTOURS_EX			CONTOURS_EX00036		609.51		6159561.50	2294995.64	609.51
							6159506.41	2294996.63	609.51
							6159504.93	2295009.42	609.51
							6159516.44	2295029.16	609.51
							6159530.65	2295036.00	609.51
							6159531.42	2295062.35	609.51
							6159547.28	2295083.24	609.51
							6159563.68	2295088.66	609.51
							6159578.45	2295110.91	609.51
							6159592.19	2295096.04	609.51
							6159585.26	2295064.54	609.51
							6159589.61	2295056.02	609.51
							6159596.25	2295053.80	609.51
							6159594.99	2295036.98	609.51
							6159599.01	2295033.05	609.51
							6159592.33	2295027.04	609.51
							6159587.30	2295029.28	609.51
							6159581.40	2295025.97	609.51
							6159564.80	2295010.41	609.51
							6159561.50	2294995.64	609.51
CONTOURS_EX			CONTOURS_EX00037		609.51		6160554.82	2294979.90	609.51
							6160279.23	2294983.83	609.51
							6160268.75	2294984.82	609.51
							6160254.63	2294991.36	609.51
							6160233.96	2294987.52	609.51
							6160219.19	2294994.74	609.51
							6160207.03	2294985.80	609.51
							6159914.07	2294989.74	609.51
							6159886.25	2294990.72	609.51
							6159883.56	2294994.61	609.51
							6159860.93	2295000.91	609.51
							6159829.77	2294991.71	609.51
							6159695.94	2294993.68	609.51
							6159697.57	2295020.25	609.51
							6159701.96	2295036.00	609.51
							6159693.53	2295050.76	609.51
							6159692.75	2295066.51	609.51
							6159704.17	2295099.98	609.51
							6159714.77	2295113.25	609.51
							6159725.10	2295120.27	609.51
							6159735.93	2295123.06	609.51
							6159782.74	2295121.63	609.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159788.49	2295129.50	609.51
							6159775.90	2295136.39	609.51
							6159793.01	2295142.33	609.51
							6159800.62	2295138.36	609.51
							6159796.02	2295130.49	609.51
							6159797.27	2295125.57	609.51
							6159806.79	2295121.57	609.51
							6159818.60	2295121.41	609.51
							6159827.46	2295128.82	609.51
							6159835.33	2295128.94	609.51
							6159841.52	2295120.92	609.51
							6159860.25	2295118.00	609.51
							6159972.15	2295114.24	609.51
							6159985.93	2295117.64	609.51
							6159993.03	2295125.57	609.51
							6159993.51	2295134.42	609.51
							6159995.82	2295134.48	609.51
							6160004.63	2295130.37	609.51
							6160007.93	2295119.03	609.51
							6160030.22	2295106.79	609.51
							6160040.92	2295115.85	609.51
							6160050.64	2295118.92	609.51
							6160052.82	2295124.54	609.51
							6160046.61	2295135.41	609.51
							6160049.46	2295141.31	609.51
							6160061.56	2295147.38	609.51
							6160084.35	2295149.40	609.51
							6160092.22	2295155.41	609.51
							6160093.17	2295162.97	609.51
							6160100.80	2295171.12	609.51
							6160110.93	2295174.75	609.51
							6160116.37	2295172.81	609.51
							6160124.70	2295178.14	609.51
							6160128.64	2295201.72	609.51
							6160143.41	2295198.48	609.51
							6160159.15	2295190.30	609.51
							6160192.39	2295201.35	609.51
							6160177.09	2295227.16	609.51
							6160176.15	2295251.55	609.51
							6160166.36	2295259.74	609.51
							6160132.58	2295258.51	609.51
							6160092.22	2295279.48	609.51
							6160055.81	2295289.47	609.51
							6160001.75	2295283.96	609.51
							6159957.38	2295275.13	609.51
							6159942.62	2295276.84	609.51
							6159918.01	2295285.50	609.51
							6159903.25	2295284.72	609.51
							6159886.71	2295278.92	609.51
							6159877.66	2295269.10	609.51
							6159870.71	2295280.04	609.51
							6159859.94	2295288.26	609.51
							6159843.04	2295290.10	609.51
							6159834.72	2295280.09	609.51
							6159826.48	2295275.64	609.51
							6159818.18	2295257.46	609.51
							6159821.65	2295241.71	609.51
							6159816.20	2295223.01	609.51
							6159818.74	2295214.15	609.51
							6159807.07	2295192.49	609.51
							6159813.98	2295180.68	609.51
							6159808.76	2295175.15	609.51
							6159801.87	2295172.15	609.51
							6159747.58	2295166.75	609.51
							6159740.87	2295167.89	609.51
							6159727.07	2295178.49	609.51
							6159718.36	2295176.90	609.51
							6159709.35	2295182.89	609.51
							6159707.82	2295178.28	609.51
							6159698.27	2295172.81	609.51
							6159684.74	2295169.17	609.51
							6159672.93	2295177.73	609.51
							6159674.41	2295241.71	609.51
							6159668.01	2295280.05	609.51
							6159661.12	2295286.64	609.51
							6159656.28	2295286.00	609.51
							6159654.23	2295281.50	609.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159650.43	2295288.95	609.51
							6159632.05	2295303.18	609.51
							6159621.75	2295320.73	609.51
							6159616.31	2295287.97	609.51
							6159609.13	2295269.27	609.51
							6159611.78	2295260.41	609.51
							6159608.12	2295223.01	609.51
							6159595.90	2295200.63	609.51
							6159574.51	2295185.61	609.51
							6159566.63	2295185.39	609.51
							6159559.64	2295190.42	609.51
							6159559.74	2295199.48	609.51
							6159519.39	2295229.10	609.51
							6159512.19	2295242.39	609.51
							6159511.87	2295256.47	609.51
							6159502.85	2295273.20	609.51
							6159501.57	2295286.98	609.51
							6159506.19	2295311.59	609.51
							6159500.65	2295350.96	609.51
							6159486.91	2295398.91	609.51
							6159474.55	2295405.64	609.51
							6159465.99	2295389.60	609.51
							6159462.30	2295388.73	609.51
							6159456.37	2295393.26	609.51
							6159446.61	2295410.07	609.51
							6159437.58	2295409.03	609.51
							6159436.04	2295393.28	609.51
							6159439.16	2295383.44	609.51
							6159440.23	2295347.02	609.51
							6159434.82	2295293.87	609.51
							6159428.56	2295271.51	609.51
							6159429.69	2295255.49	609.51
							6159426.14	2295247.35	609.51
							6159404.43	2295232.85	609.51
							6159407.25	2295221.11	609.51
							6159413.09	2295216.12	609.51
							6159415.11	2295209.28	609.51
							6159410.06	2295181.67	609.51
							6159413.58	2295168.87	609.51
							6159391.44	2295148.11	609.51
							6159406.20	2296058.64	609.51
							6160564.67	2296059.62	609.51
							6160554.82	2294979.90	609.51
CONTOURS_EX			CONTOURS_EX00038		610.51		6159460.33	2295534.51	610.51
							6159472.92	2295545.84	610.51
							6159470.18	2295549.68	610.51
							6159463.29	2295551.37	610.51
							6159451.47	2295543.87	610.51
							6159456.40	2295534.46	610.51
							6159460.33	2295534.51	610.51
CONTOURS_EX			CONTOURS_EX00039		610.51		6160215.26	2295449.15	610.51
							6160218.29	2295451.35	610.51
							6160216.24	2295456.67	610.51
							6160207.09	2295456.57	610.51
							6160201.87	2295449.38	610.51
							6160215.26	2295449.15	610.51
CONTOURS_EX			CONTOURS_EX00040		610.51		6159584.35	2295392.20	610.51
							6159587.73	2295398.20	610.51
							6159586.94	2295404.11	610.51
							6159580.41	2295405.87	610.51
							6159577.25	2295402.35	610.51
							6159578.21	2295397.97	610.51
							6159584.35	2295392.20	610.51
CONTOURS_EX			CONTOURS_EX00041		610.51		6159570.01	2295193.06	610.51
							6159566.57	2295193.48	610.51
							6159566.63	2295196.25	610.51
							6159574.51	2295207.54	610.51
							6159579.38	2295200.42	610.51
							6159570.01	2295193.06	610.51
CONTOURS_EX			CONTOURS_EX00042		610.51		6160279.47	2295128.28	610.51
							6160274.28	2295137.38	610.51
							6160280.22	2295140.89	610.51
							6160285.12	2295135.39	610.51
							6160279.47	2295128.28	610.51
CONTOURS_EX			CONTOURS_EX00043		610.51		6159742.53	2294992.69	610.51
							6159714.27	2294995.42	610.51
							6159704.29	2295017.30	610.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159705.30	2295030.09	610.51
							6159710.32	2295038.95	610.51
							6159701.69	2295065.53	610.51
							6159711.74	2295088.72	610.51
							6159710.31	2295097.02	610.51
							6159718.20	2295106.86	610.51
							6159731.00	2295112.65	610.51
							6159751.10	2295109.24	610.51
							6159752.60	2295096.04	610.51
							6159728.05	2295082.83	610.51
							6159723.36	2295074.16	610.51
							6159725.35	2295064.54	610.51
							6159739.86	2295041.65	610.51
							6159746.75	2295039.47	610.51
							6159759.56	2295046.84	610.51
							6159765.61	2295042.89	610.51
							6159759.32	2295029.86	610.51
							6159801.87	2295048.71	610.51
							6159806.68	2295055.68	610.51
							6159806.79	2295070.59	610.51
							6159797.34	2295079.70	610.51
							6159771.60	2295093.09	610.51
							6159765.22	2295101.19	610.51
							6159771.36	2295102.65	610.51
							6159780.22	2295099.23	610.51
							6159786.00	2295109.94	610.51
							6159792.03	2295114.01	610.51
							6159812.70	2295107.32	610.51
							6159849.11	2295106.94	610.51
							6159877.66	2295112.34	610.51
							6159943.98	2295110.20	610.51
							6159957.38	2295101.96	610.51
							6159969.95	2295102.70	610.51
							6159974.11	2295096.80	610.51
							6159987.89	2295090.38	610.51
							6159994.78	2295094.05	610.51
							6160007.58	2295091.74	610.51
							6160014.47	2295095.67	610.51
							6160030.22	2295093.39	610.51
							6160049.90	2295098.31	610.51
							6160061.58	2295078.32	610.51
							6160073.42	2295067.39	610.51
							6160073.62	2295060.60	610.51
							6160080.82	2295058.64	610.51
							6160097.23	2295003.52	610.51
							6160069.59	2295011.28	610.51
							6160056.79	2294994.88	610.51
							6160034.83	2295059.32	610.51
							6160022.34	2295066.85	610.51
							6160013.48	2295063.39	610.51
							6159978.88	2295036.98	610.51
							6159975.85	2295021.00	610.51
							6159981.52	2295007.46	610.51
							6159976.16	2295007.54	610.51
							6159971.16	2295012.80	610.51
							6159933.76	2295014.85	610.51
							6159943.99	2295036.98	610.51
							6159937.22	2295052.73	610.51
							6159949.51	2295050.01	610.51
							6159950.73	2295058.64	610.51
							6159936.71	2295065.30	610.51
							6159922.61	2295066.18	610.51
							6159912.11	2295089.23	610.51
							6159894.23	2295094.23	610.51
							6159887.62	2295092.10	610.51
							6159881.59	2295069.91	610.51
							6159871.75	2295068.08	610.51
							6159864.10	2295062.57	610.51
							6159866.62	2295051.75	610.51
							6159845.71	2295021.69	610.51
							6159828.45	2295016.30	610.51
							6159821.56	2295003.86	610.51
							6159809.53	2295001.33	610.51
							6159797.93	2295004.16	610.51
							6159787.27	2294999.58	610.51
							6159784.25	2295005.49	610.51
							6159791.54	2295038.95	610.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159744.16	2295019.89	610.51
							6159742.53	2294992.69	610.51
CONTOURS_EX			CONTOURS_EX00044		610.51		6160126.69	2294988.74	610.51
							6160126.67	2294992.25	610.51
							6160126.69	2294988.74	610.51
CONTOURS_EX			CONTOURS_EX00045		610.51		6160554.82	2294979.90	610.51
							6160356.56	2294982.85	610.51
							6160342.22	2294991.46	610.51
							6160333.37	2294992.32	610.51
							6160307.78	2294985.62	610.51
							6160290.06	2294987.07	610.51
							6160276.75	2295001.55	610.51
							6160262.08	2295044.43	610.51
							6160265.26	2295054.70	610.51
							6160260.53	2295063.97	610.51
							6160253.51	2295056.67	610.51
							6160257.75	2295043.87	610.51
							6160248.72	2295025.07	610.51
							6160238.63	2295026.16	610.51
							6160225.74	2295047.47	610.51
							6160221.16	2295049.47	610.51
							6160193.74	2295010.27	610.51
							6160160.14	2295004.32	610.51
							6160132.58	2295009.90	610.51
							6160109.50	2295005.49	610.51
							6160104.90	2295012.26	610.51
							6160108.49	2295057.65	610.51
							6160104.67	2295063.56	610.51
							6160117.48	2295084.23	610.51
							6160113.88	2295107.54	610.51
							6160124.70	2295109.01	610.51
							6160147.34	2295122.65	610.51
							6160167.03	2295113.47	610.51
							6160172.93	2295103.96	610.51
							6160189.67	2295100.68	610.51
							6160201.48	2295103.68	610.51
							6160219.19	2295090.75	610.51
							6160237.89	2295094.98	610.51
							6160259.55	2295081.59	610.51
							6160265.43	2295098.01	610.51
							6160301.68	2295113.94	610.51
							6160315.43	2295131.47	610.51
							6160308.06	2295140.33	610.51
							6160310.70	2295153.16	610.51
							6160308.85	2295157.06	610.51
							6160288.88	2295161.00	610.51
							6160297.99	2295172.81	610.51
							6160302.33	2295203.32	610.51
							6160297.94	2295214.15	610.51
							6160300.11	2295232.64	610.51
							6160297.28	2295245.31	610.51
							6160299.93	2295261.37	610.51
							6160306.02	2295267.30	610.51
							6160300.52	2295276.78	610.51
							6160296.15	2295295.84	610.51
							6160299.95	2295314.49	610.51
							6160298.87	2295331.22	610.51
							6160278.97	2295355.88	610.51
							6160284.42	2295407.06	610.51
							6160280.49	2295427.73	610.51
							6160272.24	2295445.35	610.51
							6160263.48	2295455.24	610.51
							6160252.77	2295460.09	610.51
							6160243.80	2295456.72	610.51
							6160234.73	2295448.40	610.51
							6160228.79	2295424.78	610.51
							6160238.42	2295403.12	610.51
							6160244.14	2295380.49	610.51
							6160236.80	2295370.64	610.51
							6160232.97	2295357.82	610.51
							6160203.45	2295344.13	610.51
							6160147.67	2295358.18	610.51
							6160113.88	2295372.52	610.51
							6160078.45	2295364.25	610.51
							6160063.68	2295366.29	610.51
							6160026.28	2295391.09	610.51
							6160009.55	2295389.16	610.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159973.55	2295399.19	610.51
							6159973.04	2295404.11	610.51
							6159965.49	2295411.98	610.51
							6159964.98	2295415.21	610.51
							6159969.19	2295418.21	610.51
							6159974.11	2295406.45	610.51
							6159983.10	2295408.91	610.51
							6159981.50	2295419.86	610.51
							6159989.86	2295432.30	610.51
							6160002.66	2295438.20	610.51
							6160006.59	2295444.77	610.51
							6160022.34	2295454.07	610.51
							6160050.79	2295460.21	610.51
							6160067.62	2295458.61	610.51
							6160090.26	2295461.43	610.51
							6160125.69	2295451.96	610.51
							6160129.63	2295454.37	610.51
							6160137.89	2295438.95	610.51
							6160159.15	2295435.31	610.51
							6160167.03	2295434.91	610.51
							6160183.83	2295440.46	610.51
							6160194.95	2295446.43	610.51
							6160195.25	2295458.24	610.51
							6160176.98	2295479.02	610.51
							6160164.08	2295506.47	610.51
							6160143.74	2295500.23	610.51
							6160128.64	2295487.11	610.51
							6160098.13	2295495.06	610.51
							6160074.11	2295508.44	610.51
							6160043.49	2295513.84	610.51
							6160014.47	2295523.28	610.51
							6160000.69	2295522.67	610.51
							6159984.94	2295513.69	610.51
							6159939.67	2295512.16	610.51
							6159930.01	2295504.50	610.51
							6159918.83	2295484.98	610.51
							6159879.63	2295460.54	610.51
							6159830.92	2295455.29	610.51
							6159824.51	2295438.56	610.51
							6159825.80	2295423.79	610.51
							6159819.86	2295416.63	610.51
							6159815.13	2295398.20	610.51
							6159818.18	2295375.57	610.51
							6159807.48	2295356.86	610.51
							6159808.45	2295337.49	610.51
							6159805.81	2295332.40	610.51
							6159797.82	2295328.32	610.51
							6159798.46	2295322.42	610.51
							6159805.59	2295315.53	610.51
							6159799.62	2295289.94	610.51
							6159799.51	2295265.33	610.51
							6159787.11	2295230.72	610.51
							6159778.90	2295236.45	610.51
							6159780.59	2295244.66	610.51
							6159758.51	2295262.38	610.51
							6159744.78	2295269.27	610.51
							6159727.34	2295259.42	610.51
							6159726.89	2295253.69	610.51
							6159703.45	2295246.34	610.51
							6159700.49	2295248.07	610.51
							6159689.85	2295234.82	610.51
							6159682.26	2295235.80	610.51
							6159696.51	2295251.55	610.51
							6159688.62	2295254.44	610.51
							6159687.98	2295260.41	610.51
							6159677.95	2295272.22	610.51
							6159677.81	2295285.96	610.51
							6159671.76	2295304.51	610.51
							6159673.55	2295312.57	610.51
							6159662.17	2295364.74	610.51
							6159662.46	2295378.52	610.51
							6159654.23	2295399.21	610.51
							6159648.62	2295397.22	610.51
							6159654.47	2295424.78	610.51
							6159645.24	2295429.70	610.51
							6159632.62	2295447.45	610.51
							6159623.72	2295451.61	610.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159619.50	2295440.53	610.51
							6159619.57	2295427.73	610.51
							6159612.29	2295412.97	610.51
							6159607.57	2295339.73	610.51
							6159600.78	2295313.56	610.51
							6159597.22	2295281.08	610.51
							6159599.06	2295265.33	610.51
							6159592.88	2295235.80	610.51
							6159591.24	2295231.40	610.51
							6159577.23	2295253.52	610.51
							6159572.74	2295255.49	610.51
							6159576.62	2295246.63	610.51
							6159568.34	2295226.94	610.51
							6159568.60	2295214.61	610.51
							6159534.15	2295243.99	610.51
							6159518.00	2295264.35	610.51
							6159514.07	2295289.94	610.51
							6159524.57	2295318.48	610.51
							6159511.75	2295335.21	610.51
							6159514.74	2295348.72	610.51
							6159502.00	2295409.03	610.51
							6159485.51	2295438.56	610.51
							6159459.35	2295469.21	610.51
							6159451.48	2295472.80	610.51
							6159451.74	2295480.88	610.51
							6159447.54	2295489.54	610.51
							6159436.52	2295497.80	610.51
							6159424.97	2295480.81	610.51
							6159413.09	2295485.65	610.51
							6159405.04	2295484.01	610.51
							6159406.93	2295474.98	610.51
							6159415.20	2295463.31	610.51
							6159418.78	2295435.39	610.51
							6159424.72	2295420.84	610.51
							6159425.10	2295371.63	610.51
							6159430.44	2295348.01	610.51
							6159422.55	2295308.64	610.51
							6159418.09	2295300.68	610.51
							6159404.83	2295291.90	610.51
							6159404.24	2295284.02	610.51
							6159393.41	2295280.88	610.51
							6159406.20	2296058.64	610.51
							6160564.67	2296059.62	610.51
							6160554.82	2294979.90	610.51
CONTOURS_EX			CONTOURS_EX00046		611.51		6159964.31	2295596.98	611.51
							6159964.31	2295596.98	611.51
CONTOURS_EX			CONTOURS_EX00047		611.51		6159443.63	2295509.40	611.51
							6159438.31	2295514.35	611.51
							6159434.75	2295526.16	611.51
							6159439.67	2295539.91	611.51
							6159441.96	2295532.39	611.51
							6159453.00	2295528.12	611.51
							6159443.63	2295509.40	611.51
CONTOURS_EX			CONTOURS_EX00048		611.51		6159682.90	2295460.09	611.51
							6159679.20	2295462.18	611.51
							6159673.58	2295480.88	611.51
							6159677.85	2295488.24	611.51
							6159682.78	2295489.67	611.51
							6159688.56	2295481.86	611.51
							6159682.90	2295460.09	611.51
CONTOURS_EX			CONTOURS_EX00049		611.51		6159804.88	2295374.53	611.51
							6159804.88	2295374.53	611.51
CONTOURS_EX			CONTOURS_EX00050		611.51		6159679.93	2295362.66	611.51
							6159670.75	2295408.81	611.51
							6159676.41	2295418.34	611.51
							6159687.72	2295423.79	611.51
							6159683.70	2295444.46	611.51
							6159685.97	2295452.10	611.51
							6159694.59	2295453.13	611.51
							6159748.72	2295434.06	611.51
							6159755.41	2295424.78	611.51
							6159756.91	2295410.68	611.51
							6159733.96	2295403.38	611.51
							6159710.33	2295405.45	611.51
							6159697.54	2295399.96	611.51
							6159693.54	2295393.34	611.51
							6159692.04	2295376.55	611.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159683.76	2295363.92	611.51
							6159679.93	2295362.66	611.51
CONTOURS_EX			CONTOURS_EX00051		611.51		6159690.71	2295318.42	611.51
							6159684.74	2295318.46	611.51
							6159684.55	2295324.58	611.51
							6159694.84	2295319.46	611.51
							6159690.71	2295318.42	611.51
CONTOURS_EX			CONTOURS_EX00052		611.51		6159395.48	2295303.61	611.51
							6159397.34	2295476.74	611.51
							6159409.94	2295451.35	611.51
							6159408.54	2295395.25	611.51
							6159412.97	2295382.46	611.51
							6159410.40	2295372.61	611.51
							6159413.88	2295348.99	611.51
							6159405.85	2295330.29	611.51
							6159406.20	2295310.61	611.51
							6159395.48	2295303.61	611.51
CONTOURS_EX			CONTOURS_EX00053		611.51		6159538.29	2295296.62	611.51
							6159536.27	2295301.75	611.51
							6159539.08	2295308.33	611.51
							6159550.84	2295306.67	611.51
							6159538.29	2295296.62	611.51
CONTOURS_EX			CONTOURS_EX00054		611.51		6159722.17	2295096.01	611.51
							6159718.89	2295098.99	611.51
							6159730.66	2295100.96	611.51
							6159722.17	2295096.01	611.51
CONTOURS_EX			CONTOURS_EX00055		611.51		6160123.07	2295089.80	611.51
							6160120.73	2295095.10	611.51
							6160129.08	2295094.07	611.51
							6160123.07	2295089.80	611.51
CONTOURS_EX			CONTOURS_EX00056		611.51		6159954.67	2295086.94	611.51
							6159954.67	2295086.94	611.51
CONTOURS_EX			CONTOURS_EX00057		611.51		6159950.74	2295083.98	611.51
							6159934.93	2295097.02	611.51
							6159936.70	2295103.92	611.51
							6159940.46	2295103.72	611.51
							6159952.90	2295089.58	611.51
							6159950.74	2295083.98	611.51
CONTOURS_EX			CONTOURS_EX00058		611.51		6160326.48	2295070.42	611.51
							6160326.89	2295073.81	611.51
							6160323.52	2295074.59	611.51
							6160322.07	2295069.98	611.51
							6160326.48	2295070.42	611.51
CONTOURS_EX			CONTOURS_EX00059		611.51		6159965.33	2295066.44	611.51
							6159957.38	2295069.18	611.51
							6159954.43	2295086.19	611.51
							6159962.30	2295076.18	611.51
							6159974.47	2295070.45	611.51
							6159965.33	2295066.44	611.51
CONTOURS_EX			CONTOURS_EX00060		611.51		6160161.40	2295052.45	611.51
							6160156.35	2295053.72	611.51
							6160153.76	2295061.07	611.51
							6160159.59	2295064.98	611.51
							6160164.08	2295059.81	611.51
							6160194.59	2295076.30	611.51
							6160195.74	2295084.23	611.51
							6160201.48	2295088.86	611.51
							6160202.30	2295078.32	611.51
							6160214.58	2295068.48	611.51
							6160197.54	2295073.26	611.51
							6160161.40	2295052.45	611.51
CONTOURS_EX			CONTOURS_EX00061		611.51		6160061.76	2295041.85	611.51
							6160057.40	2295058.64	611.51
							6160048.87	2295074.38	611.51
							6160052.10	2295080.06	611.51
							6160066.69	2295066.51	611.51
							6160065.26	2295062.57	611.51
							6160070.87	2295045.54	611.51
							6160061.76	2295041.85	611.51
CONTOURS_EX			CONTOURS_EX00062		611.51		6160554.82	2294979.90	611.51
							6160478.05	2294983.30	611.51
							6160440.65	2294991.17	611.51
							6160398.44	2295007.57	611.51
							6160386.08	2295003.08	611.51
							6160366.83	2295008.49	611.51
							6160346.14	2295023.19	611.51
							6160322.54	2295026.93	611.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160309.74	2295049.27	611.51
							6160304.58	2295052.49	611.51
							6160302.85	2295060.60	611.51
							6160287.32	2295077.34	611.51
							6160285.96	2295088.32	611.51
							6160317.16	2295094.07	611.51
							6160325.49	2295106.12	611.51
							6160332.38	2295109.35	611.51
							6160347.15	2295106.34	611.51
							6160351.08	2295110.74	611.51
							6160358.96	2295098.28	611.51
							6160379.63	2295107.64	611.51
							6160392.42	2295107.60	611.51
							6160413.09	2295115.71	611.51
							6160431.79	2295112.38	611.51
							6160467.17	2295116.76	611.51
							6160469.19	2295122.85	611.51
							6160437.57	2295144.27	611.51
							6160447.11	2295154.53	611.51
							6160469.86	2295156.39	611.51
							6160478.05	2295162.95	611.51
							6160477.52	2295171.83	611.51
							6160464.33	2295186.64	611.51
							6160464.80	2295233.83	611.51
							6160460.24	2295254.50	611.51
							6160468.21	2295278.73	611.51
							6160480.72	2295293.87	611.51
							6160487.33	2295307.65	611.51
							6160490.36	2295322.42	611.51
							6160481.14	2295333.37	611.51
							6160464.01	2295372.61	611.51
							6160468.34	2295401.29	611.51
							6160461.47	2295412.13	611.51
							6160453.81	2295414.31	611.51
							6160449.59	2295419.86	611.51
							6160450.49	2295425.57	611.51
							6160463.29	2295434.22	611.51
							6160464.27	2295467.25	611.51
							6160455.62	2295483.06	611.51
							6160440.65	2295491.25	611.51
							6160429.82	2295484.45	611.51
							6160415.27	2295417.89	611.51
							6160412.61	2295378.03	611.51
							6160423.03	2295305.68	611.51
							6160419.37	2295288.95	611.51
							6160419.68	2295256.47	611.51
							6160410.16	2295222.02	611.51
							6160413.33	2295200.37	611.51
							6160411.81	2295183.64	611.51
							6160397.34	2295170.16	611.51
							6160374.71	2295166.57	611.51
							6160361.91	2295151.00	611.51
							6160334.35	2295151.53	611.51
							6160322.36	2295169.68	611.51
							6160314.74	2295173.87	611.51
							6160308.83	2295188.63	611.51
							6160310.29	2295201.35	611.51
							6160304.73	2295216.12	611.51
							6160305.37	2295247.61	611.51
							6160310.38	2295267.93	611.51
							6160302.67	2295295.84	611.51
							6160308.28	2295308.64	611.51
							6160310.37	2295334.23	611.51
							6160306.10	2295346.04	611.51
							6160307.69	2295415.92	611.51
							6160300.44	2295433.64	611.51
							6160306.11	2295450.37	611.51
							6160307.72	2295482.85	611.51
							6160305.46	2295490.38	611.51
							6160308.88	2295501.55	611.51
							6160305.78	2295578.32	611.51
							6160308.95	2295597.02	611.51
							6160305.03	2295604.90	611.51
							6160309.55	2295620.84	611.51
							6160304.73	2295643.28	611.51
							6160308.94	2295648.20	611.51
							6160309.43	2295658.05	611.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160300.76	2295699.38	611.51
							6160303.45	2295708.24	611.51
							6160297.80	2295718.09	611.51
							6160292.03	2295753.27	611.51
							6160280.22	2295764.13	611.51
							6160247.74	2295772.35	611.51
							6160219.19	2295774.73	611.51
							6160201.48	2295763.50	611.51
							6160163.09	2295756.21	611.51
							6160115.21	2295737.42	611.51
							6160097.54	2295719.07	611.51
							6160092.27	2295681.67	611.51
							6160087.97	2295672.81	611.51
							6160062.89	2295656.87	611.51
							6160044.00	2295626.38	611.51
							6160027.59	2295613.43	611.51
							6159985.12	2295623.78	611.51
							6159970.38	2295634.42	611.51
							6159954.75	2295640.65	611.51
							6159944.59	2295656.08	611.51
							6159937.70	2295655.75	611.51
							6159923.25	2295632.46	611.51
							6159917.95	2295599.98	611.51
							6159917.89	2295582.26	611.51
							6159927.99	2295565.53	611.51
							6159928.64	2295553.72	611.51
							6159911.86	2295536.98	611.51
							6159890.45	2295523.21	611.51
							6159878.64	2295522.77	611.51
							6159872.57	2295525.99	611.51
							6159847.71	2295549.36	611.51
							6159817.62	2295557.04	611.51
							6159764.47	2295552.09	611.51
							6159755.63	2295558.66	611.51
							6159754.93	2295564.54	611.51
							6159748.72	2295571.92	611.51
							6159720.18	2295572.99	611.51
							6159710.57	2295571.19	611.51
							6159700.09	2295552.73	611.51
							6159682.36	2295535.01	611.51
							6159680.40	2295517.30	611.51
							6159677.85	2295515.44	611.51
							6159671.82	2295529.11	611.51
							6159662.59	2295539.43	611.51
							6159650.76	2295541.90	611.51
							6159637.50	2295561.21	611.51
							6159624.70	2295563.17	611.51
							6159622.16	2295539.94	611.51
							6159614.93	2295525.17	611.51
							6159615.07	2295510.41	611.51
							6159606.35	2295490.72	611.51
							6159609.60	2295467.10	611.51
							6159606.00	2295445.85	611.51
							6159600.41	2295432.65	611.51
							6159599.68	2295417.32	611.51
							6159592.22	2295412.00	611.51
							6159582.38	2295412.94	611.51
							6159571.45	2295408.15	611.51
							6159565.91	2295401.88	611.51
							6159569.59	2295391.28	611.51
							6159538.86	2295374.58	611.51
							6159565.65	2295354.70	611.51
							6159584.35	2295367.00	611.51
							6159585.26	2295373.67	611.51
							6159594.19	2295376.41	611.51
							6159597.53	2295371.63	611.51
							6159591.75	2295356.86	611.51
							6159595.82	2295351.94	611.51
							6159596.90	2295342.10	611.51
							6159593.21	2295334.25	611.51
							6159578.45	2295329.09	611.51
							6159574.81	2295321.13	611.51
							6159551.13	2295329.31	611.51
							6159549.26	2295341.12	611.51
							6159524.23	2295384.34	611.51
							6159523.30	2295404.11	611.51
							6159516.16	2295412.97	611.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159514.87	2295429.70	611.51
							6159500.59	2295439.44	611.51
							6159493.80	2295449.45	611.51
							6159484.99	2295452.38	611.51
							6159465.94	2295467.79	611.51
							6159451.11	2295498.60	611.51
							6159456.72	2295526.82	611.51
							6159471.76	2295523.20	611.51
							6159472.31	2295537.97	611.51
							6159480.34	2295546.83	611.51
							6159465.26	2295560.50	611.51
							6159456.40	2295556.61	611.51
							6159445.57	2295560.11	611.51
							6159430.81	2295555.72	611.51
							6159413.22	2295564.67	611.51
							6159398.33	2295566.73	611.51
							6159406.20	2296058.64	611.51
							6160564.67	2296059.62	611.51
							6160554.82	2294979.90	611.51
CONTOURS_EX			CONTOURS_EX00063		612.51		6159819.59	2295681.57	612.51
							6159827.23	2295694.46	612.51
							6159825.49	2295700.36	612.51
							6159817.62	2295702.97	612.51
							6159815.16	2295691.51	612.51
							6159819.59	2295681.57	612.51
CONTOURS_EX			CONTOURS_EX00064		612.51		6159464.28	2295580.28	612.51
							6159444.46	2295589.15	612.51
							6159445.39	2295609.82	612.51
							6159477.07	2295643.83	612.51
							6159496.11	2295641.66	612.51
							6159501.85	2295633.61	612.51
							6159509.15	2295611.79	612.51
							6159507.93	2295598.63	612.51
							6159492.82	2295597.61	612.51
							6159480.02	2295601.71	612.51
							6159475.47	2295598.61	612.51
							6159469.19	2295583.26	612.51
							6159464.28	2295580.28	612.51
CONTOURS_EX			CONTOURS_EX00065		612.51		6159396.65	2295432.35	612.51
							6159396.36	2295468.09	612.51
							6159403.21	2295451.35	612.51
							6159396.65	2295432.35	612.51
CONTOURS_EX			CONTOURS_EX00066		612.51		6160359.29	2295170.50	612.51
							6160347.15	2295170.22	612.51
							6160341.11	2295178.59	612.51
							6160321.07	2295187.08	612.51
							6160316.02	2295195.45	612.51
							6160310.37	2295218.09	612.51
							6160312.81	2295222.89	612.51
							6160310.58	2295247.61	612.51
							6160313.66	2295269.27	612.51
							6160308.93	2295282.23	612.51
							6160308.48	2295294.86	612.51
							6160315.21	2295333.24	612.51
							6160309.45	2295348.99	612.51
							6160315.08	2295356.86	612.51
							6160315.99	2295372.61	612.51
							6160313.65	2295376.52	612.51
							6160315.56	2295400.17	612.51
							6160311.02	2295433.34	612.51
							6160313.31	2295450.37	612.51
							6160310.93	2295492.69	612.51
							6160314.29	2295521.23	612.51
							6160310.51	2295574.38	612.51
							6160312.47	2295690.53	612.51
							6160308.63	2295724.98	612.51
							6160309.15	2295762.38	612.51
							6160303.84	2295772.67	612.51
							6160287.11	2295781.75	612.51
							6160221.16	2295786.89	612.51
							6160188.99	2295785.69	612.51
							6160125.54	2295772.07	612.51
							6160084.35	2295778.06	612.51
							6160074.51	2295775.49	612.51
							6160065.65	2295764.49	612.51
							6160055.81	2295742.69	612.51
							6160039.08	2295732.74	612.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160015.82	2295749.58	612.51
							6160008.56	2295758.67	612.51
							6159983.96	2295763.74	612.51
							6159952.46	2295782.07	612.51
							6159922.93	2295776.47	612.51
							6159916.41	2295768.28	612.51
							6159920.72	2295742.69	612.51
							6159907.93	2295715.13	612.51
							6159914.63	2295688.56	612.51
							6159908.36	2295672.62	612.51
							6159907.13	2295657.06	612.51
							6159894.89	2295646.23	612.51
							6159894.39	2295627.90	612.51
							6159888.48	2295622.72	612.51
							6159877.61	2295628.52	612.51
							6159871.01	2295653.37	612.51
							6159846.16	2295669.04	612.51
							6159834.23	2295665.06	612.51
							6159830.96	2295659.03	612.51
							6159841.37	2295637.38	612.51
							6159834.35	2295626.95	612.51
							6159829.43	2295626.73	612.51
							6159798.22	2295633.73	612.51
							6159794.01	2295648.21	612.51
							6159780.22	2295655.51	612.51
							6159752.66	2295655.82	612.51
							6159746.75	2295670.05	612.51
							6159738.88	2295665.54	612.51
							6159708.37	2295672.43	612.51
							6159690.63	2295623.60	612.51
							6159685.73	2295597.34	612.51
							6159678.84	2295594.65	612.51
							6159661.53	2295611.79	612.51
							6159658.25	2295620.72	612.51
							6159645.17	2295623.39	612.51
							6159634.62	2295640.33	612.51
							6159627.56	2295641.41	612.51
							6159612.75	2295601.94	612.51
							6159609.40	2295573.40	612.51
							6159609.98	2295563.56	612.51
							6159614.24	2295558.64	612.51
							6159609.03	2295537.97	612.51
							6159607.93	2295510.41	612.51
							6159603.86	2295500.74	612.51
							6159593.74	2295491.71	612.51
							6159590.18	2295481.94	612.51
							6159589.85	2295459.23	612.51
							6159573.72	2295436.39	612.51
							6159552.85	2295432.83	612.51
							6159516.44	2295446.79	612.51
							6159502.66	2295462.76	612.51
							6159487.89	2295460.67	612.51
							6159468.62	2295474.40	612.51
							6159471.72	2295480.88	612.51
							6159466.05	2295490.72	612.51
							6159470.39	2295496.63	612.51
							6159473.96	2295514.35	612.51
							6159483.82	2295512.38	612.51
							6159484.78	2295541.90	612.51
							6159488.37	2295545.84	612.51
							6159479.44	2295565.53	612.51
							6159497.74	2295581.92	612.51
							6159515.45	2295592.12	612.51
							6159524.01	2295603.23	612.51
							6159524.99	2295618.37	612.51
							6159515.65	2295644.47	612.51
							6159493.09	2295658.05	612.51
							6159479.04	2295659.59	612.51
							6159462.30	2295656.84	612.51
							6159454.00	2295650.17	612.51
							6159428.53	2295617.01	612.51
							6159411.12	2295589.41	612.51
							6159398.33	2295579.15	612.51
							6159406.20	2296058.64	612.51
							6160564.67	2296059.62	612.51
							6160558.76	2295337.09	612.51
							6160546.95	2295338.67	612.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160530.22	2295346.55	612.51
							6160493.63	2295349.81	612.51
							6160482.43	2295358.83	612.51
							6160475.79	2295409.72	612.51
							6160471.10	2295418.87	612.51
							6160471.24	2295477.93	612.51
							6160466.62	2295519.27	612.51
							6160472.04	2295544.75	612.51
							6160468.86	2295560.27	612.51
							6160450.90	2295567.91	612.51
							6160446.89	2295573.74	612.51
							6160450.91	2295589.15	612.51
							6160461.32	2295602.05	612.51
							6160466.16	2295613.75	612.51
							6160458.37	2295618.11	612.51
							6160448.52	2295615.70	612.51
							6160418.47	2295596.04	612.51
							6160417.93	2295584.31	612.51
							6160409.18	2295572.42	612.51
							6160403.24	2295546.83	612.51
							6160410.73	2295486.79	612.51
							6160408.72	2295459.66	612.51
							6160405.99	2295455.29	612.51
							6160409.44	2295446.72	612.51
							6160409.37	2295432.87	612.51
							6160402.83	2295412.97	612.51
							6160402.34	2295395.25	612.51
							6160394.41	2295375.57	612.51
							6160396.13	2295364.51	612.51
							6160405.15	2295344.98	612.51
							6160411.73	2295304.70	612.51
							6160391.50	2295231.86	612.51
							6160402.07	2295200.37	612.51
							6160402.09	2295190.53	612.51
							6160392.42	2295183.16	612.51
							6160370.77	2295184.36	612.51
							6160359.29	2295170.50	612.51
CONTOURS_EX			CONTOURS_EX00067		612.51		6160412.21	2295079.20	612.51
							6160409.36	2295080.29	612.51
							6160413.09	2295098.59	612.51
							6160416.23	2295089.33	612.51
							6160412.21	2295079.20	612.51
CONTOURS_EX			CONTOURS_EX00068		612.51		6160528.26	2294992.68	612.51
							6160521.44	2294993.76	612.51
							6160517.81	2294998.99	612.51
							6160506.53	2294999.51	612.51
							6160472.15	2295016.86	612.51
							6160467.10	2295007.46	612.51
							6160442.40	2295004.50	612.51
							6160405.93	2295050.76	612.51
							6160411.27	2295064.39	612.51
							6160422.93	2295070.12	612.51
							6160449.51	2295065.43	612.51
							6160467.82	2295065.92	612.51
							6160467.93	2295073.12	612.51
							6160457.51	2295090.13	612.51
							6160439.65	2295095.05	612.51
							6160445.57	2295105.00	612.51
							6160458.37	2295106.46	612.51
							6160468.21	2295092.87	612.51
							6160483.96	2295097.66	612.51
							6160499.71	2295095.72	612.51
							6160507.58	2295090.56	612.51
							6160516.44	2295091.76	612.51
							6160526.16	2295111.79	612.51
							6160541.75	2295114.03	612.51
							6160547.42	2295117.69	612.51
							6160542.86	2295129.50	612.51
							6160514.47	2295149.80	612.51
							6160499.38	2295164.61	612.51
							6160496.88	2295174.90	612.51
							6160487.89	2295177.68	612.51
							6160472.50	2295189.54	612.51
							6160468.52	2295210.21	612.51
							6160470.18	2295223.93	612.51
							6160484.02	2295223.99	612.51
							6160483.22	2295263.36	612.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160476.27	2295270.25	612.51
							6160478.26	2295274.19	612.51
							6160486.91	2295279.29	612.51
							6160513.48	2295279.80	612.51
							6160535.14	2295286.32	612.51
							6160547.93	2295286.40	612.51
							6160557.78	2295283.71	612.51
							6160556.79	2295119.45	612.51
							6160553.61	2295117.69	612.51
							6160556.79	2295116.25	612.51
							6160555.81	2294997.29	612.51
							6160538.09	2294997.91	612.51
							6160528.26	2294992.68	612.51
CONTOURS_EX			CONTOURS_EX00069		613.51		6159569.59	2295731.73	613.51
							6159571.59	2295733.83	613.51
							6159566.63	2295743.56	613.51
							6159559.74	2295744.14	613.51
							6159557.66	2295737.65	613.51
							6159569.59	2295731.73	613.51
CONTOURS_EX			CONTOURS_EX00070		613.51		6159582.38	2295710.05	613.51
							6159587.15	2295713.16	613.51
							6159591.43	2295724.18	613.51
							6159576.48	2295727.44	613.51
							6159576.82	2295715.13	613.51
							6159582.38	2295710.05	613.51
CONTOURS_EX			CONTOURS_EX00071		613.51		6160366.83	2295523.78	613.51
							6160369.49	2295526.16	613.51
							6160356.92	2295530.09	613.51
							6160366.83	2295523.78	613.51
CONTOURS_EX			CONTOURS_EX00072		613.51		6160328.51	2295385.34	613.51
							6160323.52	2295387.08	613.51
							6160320.86	2295413.95	613.51
							6160326.71	2295453.32	613.51
							6160320.38	2295459.03	613.51
							6160321.83	2295466.39	613.51
							6160314.90	2295489.97	613.51
							6160319.75	2295525.17	613.51
							6160314.90	2295546.07	613.51
							6160314.06	2295567.49	613.51
							6160316.13	2295690.53	613.51
							6160312.42	2295724.98	613.51
							6160315.45	2295769.27	613.51
							6160311.71	2295780.73	613.51
							6160290.01	2295789.89	613.51
							6160269.39	2295787.50	613.51
							6160247.74	2295791.72	613.51
							6160195.57	2295793.96	613.51
							6160147.34	2295789.15	613.51
							6160118.80	2295793.38	613.51
							6160090.26	2295791.96	613.51
							6160076.32	2295795.68	613.51
							6160018.41	2295790.58	613.51
							6160002.66	2295794.49	613.51
							6159943.60	2295797.06	613.51
							6159914.08	2295796.75	613.51
							6159894.39	2295790.08	613.51
							6159849.11	2295793.87	613.51
							6159800.89	2295789.04	613.51
							6159794.69	2295784.03	613.51
							6159793.21	2295767.10	613.51
							6159786.23	2295766.31	613.51
							6159759.55	2295739.61	613.51
							6159729.04	2295722.99	613.51
							6159711.32	2295704.59	613.51
							6159693.60	2295710.10	613.51
							6159685.73	2295706.85	613.51
							6159679.68	2295708.39	613.51
							6159662.11	2295692.45	613.51
							6159648.33	2295693.60	613.51
							6159633.38	2295706.09	613.51
							6159619.78	2295695.67	613.51
							6159608.48	2295649.19	613.51
							6159607.72	2295614.74	613.51
							6159601.34	2295576.35	613.51
							6159605.40	2295555.68	613.51
							6159600.02	2295502.61	613.51
							6159592.22	2295495.96	613.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159580.80	2295493.29	613.51
							6159579.01	2295489.17	613.51
							6159564.68	2295485.80	613.51
							6159564.49	2295478.91	613.51
							6159559.77	2295471.99	613.51
							6159551.87	2295473.38	613.51
							6159546.95	2295465.27	613.51
							6159531.20	2295469.73	613.51
							6159518.41	2295462.26	613.51
							6159509.55	2295469.67	613.51
							6159488.88	2295469.48	613.51
							6159482.39	2295473.99	613.51
							6159481.24	2295482.61	613.51
							6159489.10	2295492.69	613.51
							6159491.22	2295501.18	613.51
							6159495.77	2295500.57	613.51
							6159498.39	2295541.90	613.51
							6159493.50	2295552.73	613.51
							6159493.49	2295562.88	613.51
							6159498.72	2295570.45	613.51
							6159506.59	2295574.61	613.51
							6159523.33	2295576.37	613.51
							6159528.71	2295582.78	613.51
							6159537.78	2295608.83	613.51
							6159528.15	2295641.31	613.51
							6159515.14	2295655.09	613.51
							6159504.63	2295673.39	613.51
							6159495.77	2295677.34	613.51
							6159484.94	2295676.57	613.51
							6159470.14	2295671.86	613.51
							6159445.57	2295657.25	613.51
							6159421.96	2295629.50	613.51
							6159399.31	2295588.82	613.51
							6159406.20	2296058.64	613.51
							6160564.67	2296059.62	613.51
							6160560.73	2295607.82	613.51
							6160536.12	2295617.80	613.51
							6160514.47	2295618.70	613.51
							6160471.79	2295632.81	613.51
							6160439.67	2295630.12	613.51
							6160428.81	2295623.63	613.51
							6160407.78	2295599.98	613.51
							6160404.96	2295583.49	613.51
							6160390.75	2295557.65	613.51
							6160387.10	2295541.90	613.51
							6160393.71	2295531.08	613.51
							6160386.94	2295519.27	613.51
							6160397.34	2295494.80	613.51
							6160388.48	2295481.10	613.51
							6160387.50	2295483.67	613.51
							6160379.66	2295466.12	613.51
							6160382.80	2295443.48	613.51
							6160371.30	2295432.65	613.51
							6160371.29	2295413.95	613.51
							6160363.23	2295400.82	613.51
							6160353.05	2295400.02	613.51
							6160338.30	2295386.38	613.51
							6160328.51	2295385.34	613.51
CONTOURS_EX			CONTOURS_EX00073		613.51		6160341.37	2295372.48	613.51
							6160337.29	2295375.57	613.51
							6160341.24	2295377.20	613.51
							6160341.37	2295372.48	613.51
CONTOURS_EX			CONTOURS_EX00074		613.51		6160558.76	2295348.01	613.51
							6160548.52	2295351.54	613.51
							6160541.04	2295359.05	613.51
							6160524.31	2295361.47	613.51
							6160512.50	2295359.42	613.51
							6160508.11	2295362.31	613.51
							6160508.75	2295416.90	613.51
							6160491.83	2295423.30	613.51
							6160481.00	2295422.32	613.51
							6160479.77	2295425.76	613.51
							6160475.90	2295447.42	613.51
							6160486.20	2295508.72	613.51
							6160483.10	2295518.28	613.51
							6160475.87	2295525.94	613.51
							6160475.71	2295536.00	613.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160479.60	2295551.18	613.51
							6160490.85	2295561.26	613.51
							6160524.31	2295556.80	613.51
							6160542.03	2295565.24	613.51
							6160560.73	2295568.19	613.51
							6160558.76	2295348.01	613.51
CONTOURS_EX			CONTOURS_EX00075		613.51		6160317.79	2295344.88	613.51
							6160312.70	2295349.28	613.51
							6160317.62	2295350.56	613.51
							6160322.30	2295347.02	613.51
							6160317.79	2295344.88	613.51
CONTOURS_EX			CONTOURS_EX00076		613.51		6160369.81	2295279.08	613.51
							6160369.81	2295279.08	613.51
CONTOURS_EX			CONTOURS_EX00077		613.51		6160324.98	2295277.66	613.51
							6160311.87	2295283.20	613.51
							6160312.20	2295296.83	613.51
							6160318.34	2295305.94	613.51
							6160321.28	2295330.56	613.51
							6160335.33	2295338.33	613.51
							6160356.02	2295323.40	613.51
							6160324.98	2295277.66	613.51
CONTOURS_EX			CONTOURS_EX00078		613.51		6160327.51	2295211.14	613.51
							6160320.57	2295221.39	613.51
							6160316.29	2295243.34	613.51
							6160318.37	2295267.53	613.51
							6160324.51	2295276.80	613.51
							6160329.43	2295271.65	613.51
							6160338.29	2295270.85	613.51
							6160344.19	2295265.99	613.51
							6160346.75	2295275.57	613.51
							6160355.99	2295274.18	613.51
							6160369.27	2295278.60	613.51
							6160367.13	2295271.23	613.51
							6160373.98	2295268.28	613.51
							6160370.03	2295256.47	613.51
							6160370.17	2295233.44	613.51
							6160327.51	2295211.14	613.51
CONTOURS_EX			CONTOURS_EX00079		613.51		6160530.22	2295201.18	613.51
							6160530.15	2295205.29	613.51
							6160525.71	2295204.31	613.51
							6160530.22	2295201.18	613.51
CONTOURS_EX			CONTOURS_EX00080		613.51		6160556.79	2295160.01	613.51
							6160540.06	2295162.46	613.51
							6160514.51	2295184.62	613.51
							6160515.45	2295192.89	613.51
							6160503.64	2295193.70	613.51
							6160493.80	2295187.11	613.51
							6160481.45	2295190.53	613.51
							6160472.91	2295209.23	613.51
							6160486.91	2295205.99	613.51
							6160506.85	2295209.96	613.51
							6160506.86	2295230.88	613.51
							6160515.54	2295261.30	613.51
							6160540.63	2295262.79	613.51
							6160551.05	2295270.08	613.51
							6160557.78	2295270.82	613.51
							6160556.79	2295160.01	613.51
CONTOURS_EX			CONTOURS_EX00081		613.51		6160554.17	2295050.43	613.51
							6160547.93	2295051.33	613.51
							6160542.69	2295064.54	613.51
							6160542.75	2295076.35	613.51
							6160537.90	2295084.23	613.51
							6160538.89	2295101.15	613.51
							6160546.95	2295103.84	613.51
							6160556.79	2295104.02	613.51
							6160554.17	2295050.43	613.51
CONTOURS_EX			CONTOURS_EX00082		614.51		6160353.05	2296040.10	614.51
							6160353.70	2296042.55	614.51
							6160349.61	2296041.90	614.51
							6160353.05	2296040.10	614.51
CONTOURS_EX			CONTOURS_EX00083		614.51		6159846.20	2295809.58	614.51
							6159837.30	2295809.10	614.51
							6159833.67	2295814.54	614.51
							6159839.65	2295817.87	614.51
							6159846.55	2295813.56	614.51
							6159846.20	2295809.58	614.51
CONTOURS_EX			CONTOURS_EX00084		614.51		6159409.15	2295742.09	614.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159413.13	2295745.64	614.51
							6159408.17	2295749.80	614.51
							6159409.15	2295742.09	614.51
CONTOURS_EX			CONTOURS_EX00085		614.51		6159581.40	2295699.38	614.51
							6159595.50	2295709.23	614.51
							6159599.32	2295723.01	614.51
							6159603.09	2295725.96	614.51
							6159603.46	2295734.24	614.51
							6159597.15	2295737.98	614.51
							6159582.38	2295738.77	614.51
							6159568.65	2295750.62	614.51
							6159558.76	2295749.56	614.51
							6159551.18	2295736.10	614.51
							6159567.63	2295724.01	614.51
							6159574.58	2295701.42	614.51
							6159581.40	2295699.38	614.51
CONTOURS_EX			CONTOURS_EX00086		614.51		6159523.44	2295477.81	614.51
							6159517.83	2295478.34	614.51
							6159509.09	2295491.71	614.51
							6159515.18	2295531.08	614.51
							6159502.79	2295547.81	614.51
							6159514.47	2295567.01	614.51
							6159520.37	2295554.21	614.51
							6159522.67	2295554.70	614.51
							6159525.03	2295543.61	614.51
							6159544.00	2295547.47	614.51
							6159552.85	2295560.02	614.51
							6159567.39	2295568.48	614.51
							6159570.45	2295589.15	614.51
							6159563.33	2295592.74	614.51
							6159550.74	2295608.69	614.51
							6159545.23	2295631.47	614.51
							6159533.11	2295651.10	614.51
							6159524.01	2295658.05	614.51
							6159519.39	2295666.19	614.51
							6159516.61	2295675.76	614.51
							6159517.99	2295687.16	614.51
							6159506.59	2295694.49	614.51
							6159466.24	2295690.65	614.51
							6159461.18	2295693.34	614.51
							6159462.30	2295704.44	614.51
							6159446.65	2295672.81	614.51
							6159420.96	2295643.05	614.51
							6159410.14	2295645.54	614.51
							6159400.30	2295660.26	614.51
							6159401.28	2295731.27	614.51
							6159403.70	2295735.80	614.51
							6159401.28	2295735.19	614.51
							6159401.28	2295765.33	614.51
							6159406.20	2296058.64	614.51
							6160564.67	2296059.62	614.51
							6160560.73	2295624.04	614.51
							6160533.17	2295631.00	614.51
							6160490.08	2295634.64	614.51
							6160481.99	2295642.03	614.51
							6160464.27	2295639.84	614.51
							6160442.62	2295647.68	614.51
							6160429.82	2295645.27	614.51
							6160405.83	2295619.66	614.51
							6160400.30	2295609.47	614.51
							6160392.42	2295603.21	614.51
							6160384.07	2295602.93	614.51
							6160377.66	2295580.33	614.51
							6160371.54	2295574.38	614.51
							6160370.77	2295562.84	614.51
							6160360.50	2295544.30	614.51
							6160342.22	2295541.93	614.51
							6160326.48	2295533.48	614.51
							6160318.06	2295566.51	614.51
							6160317.79	2295662.97	614.51
							6160321.13	2295689.54	614.51
							6160315.47	2295723.99	614.51
							6160325.56	2295774.12	614.51
							6160318.16	2295787.97	614.51
							6160292.03	2295793.66	614.51
							6160269.39	2295792.98	614.51
							6160252.66	2295796.53	614.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160198.52	2295799.35	614.51
							6160169.98	2295795.72	614.51
							6160071.56	2295801.34	614.51
							6160023.33	2295799.38	614.51
							6159977.07	2295805.32	614.51
							6159965.26	2295802.58	614.51
							6159928.84	2295802.67	614.51
							6159916.80	2295806.67	614.51
							6159915.52	2295811.59	614.51
							6159964.26	2295836.20	614.51
							6159961.97	2295844.07	614.51
							6159964.30	2295849.98	614.51
							6159974.01	2295854.90	614.51
							6159926.87	2295860.79	614.51
							6159910.14	2295853.20	614.51
							6159878.64	2295862.97	614.51
							6159853.05	2295856.80	614.51
							6159800.89	2295856.89	614.51
							6159796.70	2295854.90	614.51
							6159794.00	2295848.37	614.51
							6159791.45	2295850.96	614.51
							6159793.17	2295854.07	614.51
							6159774.31	2295855.04	614.51
							6159767.40	2295845.07	614.51
							6159754.63	2295840.58	614.51
							6159752.36	2295835.21	614.51
							6159757.58	2295826.23	614.51
							6159777.26	2295826.72	614.51
							6159784.15	2295822.47	614.51
							6159791.42	2295813.94	614.51
							6159790.19	2295804.70	614.51
							6159779.23	2295802.04	614.51
							6159731.99	2295802.19	614.51
							6159728.05	2295794.98	614.51
							6159717.22	2295796.06	614.51
							6159698.60	2295784.93	614.51
							6159674.66	2295758.68	614.51
							6159662.11	2295752.00	614.51
							6159646.36	2295759.29	614.51
							6159639.29	2295765.33	614.51
							6159633.66	2295777.24	614.51
							6159620.77	2295786.51	614.51
							6159605.02	2295785.30	614.51
							6159596.06	2295780.09	614.51
							6159596.36	2295765.33	614.51
							6159608.36	2295752.92	614.51
							6159614.40	2295736.79	614.51
							6159607.42	2295678.72	614.51
							6159599.17	2295657.00	614.51
							6159600.75	2295615.72	614.51
							6159593.00	2295590.13	614.51
							6159592.56	2295576.35	614.51
							6159599.07	2295543.87	614.51
							6159597.22	2295506.47	614.51
							6159592.22	2295501.41	614.51
							6159572.66	2295494.53	614.51
							6159538.09	2295493.77	614.51
							6159530.10	2295480.88	614.51
							6159523.44	2295477.81	614.51
CONTOURS_EX			CONTOURS_EX00087		614.51		6160557.85	2295360.72	614.51
							6160551.87	2295361.08	614.51
							6160543.48	2295368.68	614.51
							6160537.56	2295379.96	614.51
							6160536.50	2295396.84	614.51
							6160545.45	2295403.12	614.51
							6160543.91	2295412.97	614.51
							6160549.00	2295425.68	614.51
							6160547.69	2295429.46	614.51
							6160535.14	2295440.20	614.51
							6160517.71	2295445.74	614.51
							6160486.48	2295447.42	614.51
							6160486.17	2295462.18	614.51
							6160493.35	2295474.98	614.51
							6160503.19	2295520.25	614.51
							6160489.93	2295540.92	614.51
							6160493.80	2295542.56	614.51
							6160512.50	2295535.85	614.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160530.22	2295534.92	614.51
							6160544.00	2295548.10	614.51
							6160560.73	2295553.24	614.51
							6160557.85	2295360.72	614.51
CONTOURS_EX			CONTOURS_EX00088		614.51		6160337.74	2295249.15	614.51
							6160329.40	2295250.54	614.51
							6160330.63	2295254.50	614.51
							6160340.26	2295255.49	614.51
							6160342.07	2295253.52	614.51
							6160337.74	2295249.15	614.51
CONTOURS_EX			CONTOURS_EX00089		614.51		6160557.78	2295211.19	614.51
							6160544.98	2295215.23	614.51
							6160541.61	2295222.02	614.51
							6160542.28	2295229.90	614.51
							6160548.92	2295241.13	614.51
							6160557.78	2295228.66	614.51
							6160557.78	2295211.19	614.51
CONTOURS_EX			CONTOURS_EX00090		614.51		6160556.79	2295187.57	614.51
							6160548.92	2295187.10	614.51
							6160536.11	2295193.48	614.51
							6160539.08	2295197.08	614.51
							6160546.95	2295196.78	614.51
							6160556.79	2295192.54	614.51
							6160556.79	2295187.57	614.51
CONTOURS_EX			CONTOURS_EX00091		615.51		6160223.13	2296031.64	615.51
							6160223.71	2296036.00	615.51
							6160219.29	2296035.90	615.51
							6160218.71	2296032.06	615.51
							6160223.13	2296031.64	615.51
CONTOURS_EX			CONTOURS_EX00092		615.51		6160393.45	2296023.16	615.51
							6160386.15	2296026.16	615.51
							6160385.41	2296034.03	615.51
							6160389.71	2296044.62	615.51
							6160401.58	2296054.70	615.51
							6160400.55	2296059.62	615.51
							6160429.44	2296059.62	615.51
							6160418.42	2296038.95	615.51
							6160393.45	2296023.16	615.51
CONTOURS_EX			CONTOURS_EX00093		615.51		6160220.18	2296000.35	615.51
							6160223.79	2296004.50	615.51
							6160217.22	2296007.62	615.51
							6160212.44	2296004.50	615.51
							6160215.24	2296000.57	615.51
							6160220.18	2296000.35	615.51
CONTOURS_EX			CONTOURS_EX00094		615.51		6160257.58	2295997.27	615.51
							6160265.65	2296000.57	615.51
							6160262.50	2296007.62	615.51
							6160233.05	2296003.52	615.51
							6160257.58	2295997.27	615.51
CONTOURS_EX			CONTOURS_EX00095		615.51		6159578.61	2295763.19	615.51
							6159578.61	2295763.19	615.51
CONTOURS_EX			CONTOURS_EX00096		615.51		6159559.85	2295713.06	615.51
							6159559.85	2295713.06	615.51
CONTOURS_EX			CONTOURS_EX00097		615.51		6160550.89	2295694.31	615.51
							6160553.10	2295698.64	615.51
							6160543.81	2295697.42	615.51
							6160550.89	2295694.31	615.51
CONTOURS_EX			CONTOURS_EX00098		615.51		6159596.21	2295687.52	615.51
							6159592.25	2295692.49	615.51
							6159599.66	2295698.40	615.51
							6159601.08	2295692.65	615.51
							6159596.21	2295687.52	615.51
CONTOURS_EX			CONTOURS_EX00099		615.51		6160518.41	2295678.66	615.51
							6160522.15	2295681.67	615.51
							6160517.18	2295685.85	615.51
							6160512.61	2295682.65	615.51
							6160518.41	2295678.66	615.51
CONTOURS_EX			CONTOURS_EX00100		615.51		6159546.01	2295666.86	615.51
							6159540.14	2295673.87	615.51
							6159538.79	2295689.54	615.51
							6159548.05	2295702.22	615.51
							6159555.81	2295703.50	615.51
							6159560.09	2295700.71	615.51
							6159562.46	2295692.49	615.51
							6159570.88	2295687.57	615.51
							6159573.99	2295677.27	615.51
							6159553.84	2295674.29	615.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159546.01	2295666.86	615.51
CONTOURS_EX			CONTOURS_EX00101		615.51		6160444.64	2295664.88	615.51
							6160427.70	2295666.75	615.51
							6160432.99	2295680.47	615.51
							6160453.45	2295683.49	615.51
							6160451.53	2295666.90	615.51
							6160444.64	2295664.88	615.51
CONTOURS_EX			CONTOURS_EX00102		615.51		6160555.89	2295642.22	615.51
							6160553.49	2295642.30	615.51
							6160547.93	2295666.86	615.51
							6160529.23	2295666.61	615.51
							6160518.47	2295646.17	615.51
							6160500.69	2295648.23	615.51
							6160493.65	2295653.96	615.51
							6160498.64	2295681.67	615.51
							6160461.13	2295685.42	615.51
							6160465.91	2295696.76	615.51
							6160500.69	2295696.57	615.51
							6160510.14	2295704.31	615.51
							6160500.69	2295712.77	615.51
							6160494.41	2295713.54	615.51
							6160460.33	2295699.23	615.51
							6160454.43	2295710.11	615.51
							6160443.60	2295710.73	615.51
							6160434.43	2295716.43	615.51
							6160410.14	2295701.46	615.51
							6160385.55	2295698.40	615.51
							6160368.80	2295686.59	615.51
							6160345.18	2295689.97	615.51
							6160331.76	2295687.93	615.51
							6160321.30	2295709.23	615.51
							6160324.44	2295739.80	615.51
							6160338.00	2295751.83	615.51
							6160348.84	2295755.49	615.51
							6160353.50	2295759.96	615.51
							6160355.11	2295767.30	615.51
							6160323.52	2295794.20	615.51
							6160195.57	2295804.29	615.51
							6160170.96	2295800.34	615.51
							6160061.71	2295809.42	615.51
							6160039.97	2295806.67	615.51
							6160035.18	2295813.56	615.51
							6160051.87	2295816.53	615.51
							6160063.68	2295828.30	615.51
							6160079.62	2295836.99	615.51
							6160090.41	2295836.20	615.51
							6160090.85	2295851.34	615.51
							6160100.10	2295842.97	615.51
							6160108.96	2295845.71	615.51
							6160114.14	2295850.96	615.51
							6160100.10	2295857.06	615.51
							6160091.97	2295852.20	615.51
							6160078.45	2295855.96	615.51
							6160069.59	2295851.64	615.51
							6160059.81	2295857.78	615.51
							6159935.73	2295866.56	615.51
							6159919.98	2295865.70	615.51
							6159911.12	2295859.67	615.51
							6159879.41	2295866.49	615.51
							6159852.07	2295861.46	615.51
							6159811.71	2295860.75	615.51
							6159798.92	2295864.46	615.51
							6159768.33	2295860.73	615.51
							6159751.67	2295869.68	615.51
							6159710.33	2295863.12	615.51
							6159702.73	2295858.83	615.51
							6159678.97	2295822.42	615.51
							6159693.05	2295807.65	615.51
							6159690.60	2295795.84	615.51
							6159674.90	2295781.20	615.51
							6159669.01	2295782.07	615.51
							6159665.63	2295788.95	615.51
							6159659.97	2295820.45	615.51
							6159637.50	2295838.35	615.51
							6159619.94	2295858.00	615.51
							6159609.94	2295857.63	615.51
							6159586.70	2295844.67	615.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159561.63	2295837.18	615.51
							6159553.46	2295832.26	615.51
							6159546.59	2295822.42	615.51
							6159565.65	2295811.47	615.51
							6159572.12	2295803.72	615.51
							6159567.57	2295795.89	615.51
							6159546.95	2295788.31	615.51
							6159540.00	2295783.11	615.51
							6159539.36	2295779.11	615.51
							6159545.96	2295774.17	615.51
							6159567.00	2295770.62	615.51
							6159577.93	2295763.88	615.51
							6159570.57	2295766.43	615.51
							6159561.71	2295757.10	615.51
							6159533.49	2295741.71	615.51
							6159533.17	2295730.37	615.51
							6159523.33	2295733.38	615.51
							6159505.30	2295719.37	615.51
							6159494.78	2295718.59	615.51
							6159475.10	2295711.09	615.51
							6159459.91	2295726.94	615.51
							6159456.97	2295744.66	615.51
							6159453.60	2295748.60	615.51
							6159407.19	2295752.52	615.51
							6159401.28	2295748.70	615.51
							6159406.20	2296058.64	615.51
							6160376.58	2296059.62	615.51
							6160355.02	2296050.65	615.51
							6160332.02	2296053.09	615.51
							6160296.95	2296049.38	615.51
							6160289.08	2296046.02	615.51
							6160264.42	2296045.89	615.51
							6160245.77	2296036.06	615.51
							6160229.75	2296036.98	615.51
							6160232.24	2296030.34	615.51
							6160236.91	2296027.89	615.51
							6160292.26	2296023.44	615.51
							6160294.45	2296020.25	615.51
							6160273.39	2296003.52	615.51
							6160276.25	2295997.59	615.51
							6160286.98	2295993.81	615.51
							6160307.78	2295995.25	615.51
							6160349.97	2295985.67	615.51
							6160377.66	2295983.63	615.51
							6160419.98	2295995.27	615.51
							6160431.79	2295983.51	615.51
							6160438.00	2295991.71	615.51
							6160434.04	2296000.57	615.51
							6160435.37	2296009.42	615.51
							6160445.64	2296035.01	615.51
							6160442.44	2296059.62	615.51
							6160564.67	2296059.62	615.51
							6160561.71	2295644.27	615.51
							6160555.89	2295642.22	615.51
CONTOURS_EX			CONTOURS_EX00103		615.51		6160325.53	2295633.40	615.51
							6160322.54	2295634.08	615.51
							6160320.44	2295650.17	615.51
							6160325.80	2295656.08	615.51
							6160321.28	2295663.95	615.51
							6160330.41	2295679.65	615.51
							6160336.57	2295649.19	615.51
							6160334.05	2295638.66	615.51
							6160325.53	2295633.40	615.51
CONTOURS_EX			CONTOURS_EX00104		615.51		6159589.48	2295614.53	615.51
							6159582.45	2295615.79	615.51
							6159586.32	2295625.72	615.51
							6159593.71	2295621.14	615.51
							6159589.48	2295614.53	615.51
CONTOURS_EX			CONTOURS_EX00105		615.51		6159577.70	2295499.34	615.51
							6159567.20	2295500.57	615.51
							6159563.36	2295512.70	615.51
							6159579.43	2295514.53	615.51
							6159587.21	2295511.39	615.51
							6159586.88	2295506.47	615.51
							6159577.70	2295499.34	615.51
CONTOURS_EX			CONTOURS_EX00106		615.51		6160526.38	2295462.07	615.51
							6160524.06	2295462.18	615.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160526.38	2295462.07	615.51
CONTOURS_EX			CONTOURS_EX00107		615.51		6160500.98	2295458.93	615.51
							6160496.21	2295463.16	615.51
							6160500.69	2295469.09	615.51
							6160507.37	2295468.86	615.51
							6160500.98	2295458.93	615.51
CONTOURS_EX			CONTOURS_EX00108		615.51		6160556.81	2295445.43	615.51
							6160548.92	2295447.12	615.51
							6160532.36	2295462.18	615.51
							6160540.22	2295474.98	615.51
							6160541.79	2295482.85	615.51
							6160537.92	2295489.74	615.51
							6160542.03	2295503.67	615.51
							6160559.74	2295518.34	615.51
							6160559.74	2295445.90	615.51
							6160556.81	2295445.43	615.51
CONTOURS_EX			CONTOURS_EX00109		616.51		6160355.13	2296057.54	616.51
							6160342.05	2296059.62	616.51
							6160359.79	2296059.62	616.51
							6160355.13	2296057.54	616.51
CONTOURS_EX			CONTOURS_EX00110		616.51		6160207.48	2296043.78	616.51
							6160189.67	2296044.32	616.51
							6160160.02	2296059.62	616.51
							6160314.04	2296059.62	616.51
							6160270.37	2296050.52	616.51
							6160255.61	2296053.29	616.51
							6160227.07	2296050.65	616.51
							6160207.48	2296043.78	616.51
CONTOURS_EX			CONTOURS_EX00111		616.51		6160170.97	2296013.35	616.51
							6160166.03	2296014.33	616.51
							6160162.33	2296020.03	616.51
							6160169.00	2296022.25	616.51
							6160174.61	2296020.25	616.51
							6160170.97	2296013.35	616.51
CONTOURS_EX			CONTOURS_EX00112		616.51		6160419.98	2295848.74	616.51
							6160416.96	2295850.96	616.51
							6160419.98	2295848.74	616.51
CONTOURS_EX			CONTOURS_EX00113		616.51		6160562.70	2295804.70	616.51
							6160560.48	2295806.67	616.51
							6160562.70	2295807.42	616.51
							6160562.70	2295804.70	616.51
CONTOURS_EX			CONTOURS_EX00114		616.51		6159535.27	2295761.26	616.51
							6159528.24	2295762.38	616.51
							6159534.15	2295763.81	616.51
							6159535.27	2295761.26	616.51
CONTOURS_EX			CONTOURS_EX00115		616.51		6159507.96	2295760.02	616.51
							6159502.14	2295761.39	616.51
							6159498.72	2295767.41	616.51
							6159510.05	2295766.31	616.51
							6159507.96	2295760.02	616.51
CONTOURS_EX			CONTOURS_EX00116		616.51		6159465.27	2295753.50	616.51
							6159452.46	2295756.46	616.51
							6159430.81	2295754.77	616.51
							6159413.09	2295757.16	616.51
							6159401.28	2295754.43	616.51
							6159406.20	2296058.64	616.51
							6160114.12	2296059.62	616.51
							6160111.15	2296051.52	616.51
							6160094.19	2296043.35	616.51
							6160093.39	2296037.17	616.51
							6160095.51	2296034.36	616.51
							6160116.83	2296030.79	616.51
							6160126.07	2296021.23	616.51
							6160107.97	2296008.67	616.51
							6160094.19	2296010.09	616.51
							6160086.58	2296007.20	616.51
							6160087.33	2296003.55	616.51
							6160114.86	2295997.45	616.51
							6160170.96	2295993.68	616.51
							6160221.98	2295981.05	616.51
							6160239.86	2295985.13	616.51
							6160249.71	2295981.73	616.51
							6160293.01	2295980.94	616.51
							6160320.60	2295968.11	616.51
							6160368.80	2295966.83	616.51
							6160379.63	2295961.09	616.51
							6160385.53	2295963.30	616.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160398.96	2295978.27	616.51
							6160418.01	2295980.46	616.51
							6160432.78	2295971.28	616.51
							6160445.21	2295993.68	616.51
							6160444.84	2295999.58	616.51
							6160458.69	2296028.78	616.51
							6160457.71	2296059.62	616.51
							6160564.67	2296059.62	616.51
							6160562.70	2295854.17	616.51
							6160547.93	2295854.77	616.51
							6160532.30	2295850.09	616.51
							6160512.50	2295853.01	616.51
							6160504.15	2295848.99	616.51
							6160502.66	2295844.38	616.51
							6160495.77	2295842.64	616.51
							6160492.68	2295848.01	616.51
							6160481.98	2295851.94	616.51
							6160463.95	2295847.68	616.51
							6160455.09	2295851.29	616.51
							6160447.07	2295847.02	616.51
							6160480.02	2295832.88	616.51
							6160522.34	2295828.05	616.51
							6160551.69	2295806.67	616.51
							6160547.71	2295796.06	616.51
							6160540.06	2295793.44	616.51
							6160487.89	2295787.29	616.51
							6160452.68	2295789.17	616.51
							6160389.39	2295784.11	616.51
							6160361.91	2295786.05	616.51
							6160333.31	2295798.79	616.51
							6160275.30	2295802.03	616.51
							6160255.61	2295806.55	616.51
							6160219.19	2295804.32	616.51
							6160200.49	2295812.92	616.51
							6160174.90	2295808.02	616.51
							6160148.33	2295808.16	616.51
							6160139.27	2295810.60	616.51
							6160135.68	2295813.71	616.51
							6160136.05	2295817.96	616.51
							6160146.36	2295823.12	616.51
							6160165.06	2295819.02	616.51
							6160176.87	2295821.67	616.51
							6160209.09	2295834.49	616.51
							6160215.06	2295839.35	616.51
							6160215.08	2295848.01	616.51
							6160223.13	2295846.37	616.51
							6160225.81	2295849.98	616.51
							6160220.18	2295852.99	616.51
							6160204.11	2295851.63	616.51
							6160163.09	2295859.60	616.51
							6160146.18	2295857.67	616.51
							6160127.66	2295864.04	616.51
							6160070.57	2295863.87	616.51
							6159988.88	2295869.57	616.51
							6159919.98	2295870.53	616.51
							6159912.11	2295866.14	616.51
							6159866.83	2295870.03	616.51
							6159853.05	2295865.55	616.51
							6159810.73	2295864.64	616.51
							6159778.25	2295868.08	616.51
							6159771.36	2295865.66	616.51
							6159755.61	2295875.79	616.51
							6159740.68	2295875.40	616.51
							6159718.21	2295881.27	616.51
							6159705.41	2295889.34	616.51
							6159697.48	2295900.11	616.51
							6159687.45	2295899.43	616.51
							6159673.56	2295876.91	616.51
							6159658.17	2295874.76	616.51
							6159630.61	2295904.97	616.51
							6159624.51	2295899.19	616.51
							6159615.07	2295875.36	616.51
							6159584.35	2295849.87	616.51
							6159548.29	2295836.82	616.51
							6159520.37	2295837.19	616.51
							6159514.71	2295845.05	616.51
							6159509.57	2295845.07	616.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159476.85	2295833.24	616.51
							6159482.06	2295820.45	616.51
							6159498.89	2295806.83	616.51
							6159507.45	2295789.94	616.51
							6159504.63	2295786.49	616.51
							6159484.64	2295780.09	616.51
							6159487.00	2295766.31	616.51
							6159465.27	2295753.50	616.51
CONTOURS_EX			CONTOURS_EX00117		616.51		6159475.42	2295726.62	616.51
							6159468.21	2295726.56	616.51
							6159467.05	2295729.90	616.51
							6159470.19	2295745.63	616.51
							6159477.07	2295746.38	616.51
							6159480.21	2295744.66	616.51
							6159480.15	2295734.95	616.51
							6159483.58	2295731.86	616.51
							6159475.42	2295726.62	616.51
CONTOURS_EX			CONTOURS_EX00118		616.51		6160553.01	2295721.87	616.51
							6160542.10	2295725.96	616.51
							6160556.79	2295727.45	616.51
							6160561.71	2295731.15	616.51
							6160561.71	2295722.53	616.51
							6160553.01	2295721.87	616.51
CONTOURS_EX			CONTOURS_EX00119		616.51		6160368.82	2295715.11	616.51
							6160358.95	2295719.07	616.51
							6160347.15	2295716.19	616.51
							6160331.40	2295719.55	616.51
							6160327.91	2295725.96	616.51
							6160329.49	2295733.83	616.51
							6160340.26	2295740.56	616.51
							6160386.52	2295750.39	616.51
							6160425.89	2295739.28	616.51
							6160451.48	2295742.05	616.51
							6160479.37	2295739.09	616.51
							6160498.72	2295733.06	616.51
							6160516.44	2295734.00	616.51
							6160523.79	2295731.35	616.51
							6160527.63	2295725.96	616.51
							6160509.61	2295719.01	616.51
							6160499.54	2295724.98	616.51
							6160497.74	2295729.46	616.51
							6160491.66	2295725.15	616.51
							6160451.48	2295719.37	616.51
							6160427.85	2295726.20	616.51
							6160406.20	2295716.28	616.51
							6160379.63	2295723.87	616.51
							6160368.82	2295715.11	616.51
CONTOURS_EX			CONTOURS_EX00120		616.51		6160561.71	2295669.86	616.51
							6160561.71	2295679.26	616.51
							6160561.71	2295669.86	616.51
CONTOURS_EX			CONTOURS_EX00121		616.51		6159576.50	2295502.51	616.51
							6159574.51	2295504.09	616.51
							6159576.50	2295502.51	616.51
CONTOURS_EX			CONTOURS_EX00122		617.51		6160273.39	2296055.62	617.51
							6160261.40	2296059.62	617.51
							6160294.58	2296059.62	617.51
							6160273.39	2296055.62	617.51
CONTOURS_EX			CONTOURS_EX00123		617.51		6160205.56	2296049.64	617.51
							6160189.37	2296051.45	617.51
							6160181.74	2296059.62	617.51
							6160218.34	2296059.62	617.51
							6160215.34	2296054.70	617.51
							6160205.56	2296049.64	617.51
CONTOURS_EX			CONTOURS_EX00124		617.51		6160016.60	2296021.08	617.51
							6160014.57	2296023.20	617.51
							6160017.42	2296024.48	617.51
							6160016.60	2296021.08	617.51
CONTOURS_EX			CONTOURS_EX00125		617.51		6160463.29	2295950.21	617.51
							6160491.83	2295959.07	617.51
							6160498.72	2295952.88	617.51
							6160505.25	2295956.27	617.51
							6160501.28	2295967.10	617.51
							6160492.42	2295976.94	617.51
							6160485.93	2295981.63	617.51
							6160477.89	2295981.04	617.51
							6160460.46	2295950.37	617.51
							6160463.29	2295950.21	617.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
CONTOURS_EX			CONTOURS_EX00126		617.51		6160503.64	2295902.94	617.51
							6160520.37	2295910.00	617.51
							6160523.57	2295916.90	617.51
							6160518.91	2295939.54	617.51
							6160513.48	2295946.60	617.51
							6160505.49	2295943.60	617.51
							6160494.78	2295926.20	617.51
							6160487.89	2295926.67	617.51
							6160481.57	2295921.83	617.51
							6160481.13	2295914.08	617.51
							6160497.74	2295912.75	617.51
							6160503.64	2295902.94	617.51
CONTOURS_EX			CONTOURS_EX00127		617.51		6160499.89	2295853.73	617.51
							6160464.27	2295856.68	617.51
							6160455.41	2295862.03	617.51
							6160427.85	2295854.21	617.51
							6160401.28	2295861.16	617.51
							6160363.88	2295862.28	617.51
							6160359.87	2295864.74	617.51
							6160360.93	2295870.59	617.51
							6160388.26	2295893.28	617.51
							6160389.05	2295907.06	617.51
							6160392.97	2295910.45	617.51
							6160401.11	2295932.65	617.51
							6160394.11	2295944.46	617.51
							6160400.58	2295957.26	617.51
							6160409.53	2295952.34	617.51
							6160411.27	2295927.88	617.51
							6160415.06	2295923.60	617.51
							6160442.45	2295918.70	617.51
							6160452.06	2295904.69	617.51
							6160457.67	2295905.09	617.51
							6160460.56	2295912.97	617.51
							6160446.95	2295922.81	617.51
							6160441.63	2295936.59	617.51
							6160442.62	2295945.00	617.51
							6160475.51	2295983.42	617.51
							6160472.15	2295995.64	617.51
							6160461.34	2296002.53	617.51
							6160461.97	2296009.42	617.51
							6160467.56	2296015.97	617.51
							6160476.08	2296018.72	617.51
							6160484.09	2296017.16	617.51
							6160497.69	2296023.20	617.51
							6160473.48	2296042.26	617.51
							6160467.39	2296059.62	617.51
							6160557.15	2296059.62	617.51
							6160553.25	2296044.86	617.51
							6160557.96	2296027.14	617.51
							6160552.46	2295989.15	617.51
							6160553.83	2295973.99	617.51
							6160547.96	2295898.20	617.51
							6160549.90	2295894.12	617.51
							6160563.68	2295890.44	617.51
							6160563.68	2295866.55	617.51
							6160558.50	2295861.06	617.51
							6160537.11	2295856.16	617.51
							6160511.52	2295859.02	617.51
							6160499.89	2295853.73	617.51
CONTOURS_EX			CONTOURS_EX00128		617.51		6160325.69	2295806.47	617.51
							6160305.97	2295807.81	617.51
							6160304.82	2295812.33	617.51
							6160298.12	2295808.45	617.51
							6160279.23	2295807.41	617.51
							6160273.56	2295812.57	617.51
							6160280.22	2295817.93	617.51
							6160306.79	2295816.41	617.51
							6160325.49	2295821.40	617.51
							6160336.43	2295817.49	617.51
							6160340.48	2295811.59	617.51
							6160331.40	2295811.55	617.51
							6160325.69	2295806.47	617.51
CONTOURS_EX			CONTOURS_EX00129		617.51		6160438.92	2295804.46	617.51
							6160433.63	2295808.77	617.51
							6160438.04	2295809.62	617.51
							6160438.92	2295804.46	617.51
CONTOURS_EX			CONTOURS_EX00130		617.51		6159433.90	2295761.25	617.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159401.28	2295760.60	617.51
							6159406.20	2296058.64	617.51
							6160099.76	2296059.62	617.51
							6160078.45	2296046.42	617.51
							6160063.68	2296053.12	617.51
							6159989.86	2296048.39	617.51
							6159963.21	2296050.84	617.51
							6159956.49	2296047.81	617.51
							6159959.35	2296041.55	617.51
							6159991.88	2296030.14	617.51
							6159999.30	2296023.20	617.51
							6159983.96	2296010.92	617.51
							6159966.24	2296022.70	617.51
							6159951.99	2296015.33	617.51
							6159969.19	2296003.32	617.51
							6159983.96	2296002.66	617.51
							6160026.28	2295992.08	617.51
							6160035.14	2295991.62	617.51
							6160041.99	2295998.63	617.51
							6160048.92	2295999.03	617.51
							6160057.78	2295990.92	617.51
							6160080.41	2295989.50	617.51
							6160126.67	2295977.12	617.51
							6160140.81	2295979.27	617.51
							6160177.85	2295970.76	617.51
							6160190.65	2295974.78	617.51
							6160195.57	2295965.81	617.51
							6160215.46	2295961.40	617.51
							6160236.91	2295951.86	617.51
							6160259.55	2295953.21	617.51
							6160305.81	2295946.31	617.51
							6160318.60	2295951.07	617.51
							6160332.79	2295938.56	617.51
							6160324.70	2295926.75	617.51
							6160317.05	2295921.83	617.51
							6160321.55	2295906.08	617.51
							6160316.57	2295894.27	617.51
							6160324.51	2295892.90	617.51
							6160334.87	2295877.07	617.51
							6160345.50	2295875.89	617.51
							6160350.04	2295863.75	617.51
							6160346.62	2295860.34	617.51
							6160336.32	2295858.83	617.51
							6160317.62	2295863.10	617.51
							6160287.11	2295858.91	617.51
							6160271.76	2295865.72	617.51
							6160269.64	2295887.38	617.51
							6160280.22	2295891.86	617.51
							6160295.96	2295885.37	617.51
							6160299.90	2295880.75	617.51
							6160304.80	2295895.25	617.51
							6160299.37	2295914.40	617.51
							6160279.08	2295919.03	617.51
							6160271.87	2295918.36	617.51
							6160270.28	2295913.95	617.51
							6160256.33	2295910.28	617.51
							6160251.36	2295905.09	617.51
							6160249.60	2295896.23	617.51
							6160255.90	2295886.39	617.51
							6160249.44	2295865.98	617.51
							6160236.91	2295859.01	617.51
							6160228.03	2295857.87	617.51
							6160177.85	2295864.71	617.51
							6160168.01	2295869.53	617.51
							6160147.34	2295868.86	617.51
							6160129.63	2295874.81	617.51
							6160088.29	2295870.34	617.51
							6159862.89	2295874.15	617.51
							6159843.21	2295868.87	617.51
							6159774.31	2295870.80	617.51
							6159756.59	2295880.80	617.51
							6159738.78	2295882.46	617.51
							6159733.96	2295924.02	617.51
							6159689.67	2295948.40	617.51
							6159690.66	2295971.04	617.51
							6159695.37	2295982.85	617.51
							6159691.63	2295985.42	617.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159674.63	2295948.40	617.51
							6159674.77	2295934.75	617.51
							6159667.36	2295928.38	617.51
							6159658.17	2295929.09	617.51
							6159653.85	2295932.65	617.51
							6159639.98	2295958.24	617.51
							6159627.59	2295969.07	617.51
							6159621.62	2295961.33	617.51
							6159620.94	2295944.46	617.51
							6159614.83	2295932.65	617.51
							6159616.55	2295924.78	617.51
							6159611.34	2295884.42	617.51
							6159603.41	2295871.27	617.51
							6159585.33	2295854.27	617.51
							6159545.89	2295842.18	617.51
							6159510.53	2295850.46	617.51
							6159446.56	2295842.19	617.51
							6159410.72	2295833.24	617.51
							6159411.93	2295827.34	617.51
							6159426.87	2295815.12	617.51
							6159433.82	2295804.70	617.51
							6159433.19	2295795.84	617.51
							6159426.50	2295787.97	617.51
							6159425.62	2295778.12	617.51
							6159434.74	2295769.83	617.51
							6159448.52	2295771.73	617.51
							6159456.80	2295767.30	617.51
							6159450.57	2295763.36	617.51
							6159433.90	2295761.25	617.51
CONTOURS_EX			CONTOURS_EX00131		618.51		6160062.84	2296059.48	618.51
							6160049.35	2296059.62	618.51
							6160062.84	2296059.48	618.51
CONTOURS_EX			CONTOURS_EX00132		618.51		6160197.78	2296058.39	618.51
							6160195.04	2296059.62	618.51
							6160197.78	2296058.39	618.51
CONTOURS_EX			CONTOURS_EX00133		618.51		6159999.83	2296055.55	618.51
							6159921.71	2296059.62	618.51
							6160036.77	2296059.62	618.51
							6159999.83	2296055.55	618.51
CONTOURS_EX			CONTOURS_EX00134		618.51		6160520.45	2296041.83	618.51
							6160501.45	2296059.62	618.51
							6160529.74	2296059.62	618.51
							6160520.45	2296041.83	618.51
CONTOURS_EX			CONTOURS_EX00135		618.51		6159624.70	2296032.77	618.51
							6159628.10	2296038.41	618.51
							6159624.70	2296032.77	618.51
CONTOURS_EX			CONTOURS_EX00136		618.51		6159914.22	2296022.07	618.51
							6159907.19	2296025.17	618.51
							6159912.11	2296031.08	618.51
							6159918.23	2296027.14	618.51
							6159914.22	2296022.07	618.51
CONTOURS_EX			CONTOURS_EX00137		618.51		6159888.69	2296021.02	618.51
							6159868.57	2296025.93	618.51
							6159863.50	2296036.98	618.51
							6159849.11	2296049.98	618.51
							6159846.34	2296058.64	618.51
							6159880.70	2296058.64	618.51
							6159891.38	2296031.13	618.51
							6159888.69	2296021.02	618.51
CONTOURS_EX			CONTOURS_EX00138		618.51		6159838.29	2295884.59	618.51
							6159842.73	2295894.27	618.51
							6159847.44	2295897.22	618.51
							6159846.16	2295903.44	618.51
							6159830.03	2295902.52	618.51
							6159829.03	2295895.25	618.51
							6159838.29	2295884.59	618.51
CONTOURS_EX			CONTOURS_EX00139		618.51		6160227.10	2295865.69	618.51
							6160214.11	2295866.71	618.51
							6160200.71	2295877.53	618.51
							6160207.38	2295876.58	618.51
							6160223.13	2295888.84	618.51
							6160237.69	2295887.38	618.51
							6160239.57	2295883.44	618.51
							6160227.10	2295865.69	618.51
CONTOURS_EX			CONTOURS_EX00140		618.51		6160473.15	2295863.73	618.51
							6160466.72	2295869.66	618.51
							6160475.54	2295870.10	618.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160473.15	2295863.73	618.51
CONTOURS_EX			CONTOURS_EX00141		618.51		6160422.98	2295862.72	618.51
							6160411.32	2295867.69	618.51
							6160405.79	2295873.18	618.51
							6160406.45	2295878.52	618.51
							6160416.04	2295879.83	618.51
							6160428.84	2295874.43	618.51
							6160445.70	2295875.57	618.51
							6160440.65	2295864.89	618.51
							6160429.82	2295866.01	618.51
							6160422.98	2295862.72	618.51
CONTOURS_EX			CONTOURS_EX00142		618.51		6160502.76	2295862.67	618.51
							6160492.87	2295863.75	618.51
							6160498.72	2295873.09	618.51
							6160515.45	2295876.52	618.51
							6160529.56	2295873.60	618.51
							6160516.44	2295870.81	618.51
							6160502.76	2295862.67	618.51
CONTOURS_EX			CONTOURS_EX00143		618.51		6160536.33	2295862.56	618.51
							6160532.12	2295871.69	618.51
							6160538.09	2295867.39	618.51
							6160542.68	2295880.49	618.51
							6160544.98	2295882.97	618.51
							6160548.92	2295881.52	618.51
							6160536.33	2295862.56	618.51
CONTOURS_EX			CONTOURS_EX00144		618.51		6159413.16	2295846.95	618.51
							6159403.25	2295846.12	618.51
							6159406.20	2296058.64	618.51
							6159690.78	2296058.64	618.51
							6159685.98	2296056.41	618.51
							6159685.73	2296050.14	618.51
							6159693.53	2296058.64	618.51
							6159838.93	2296058.64	618.51
							6159837.62	2296043.87	618.51
							6159843.91	2296023.90	618.51
							6159870.77	2296001.06	618.51
							6159882.58	2296001.44	618.51
							6159898.33	2295995.67	618.51
							6159920.96	2295996.15	618.51
							6159928.84	2295999.92	618.51
							6159947.54	2295996.48	618.51
							6159965.26	2295981.17	618.51
							6159983.96	2295987.36	618.51
							6160007.76	2295985.00	618.51
							6160026.28	2295959.23	618.51
							6160040.06	2295969.73	618.51
							6160074.51	2295982.34	618.51
							6160098.13	2295974.98	618.51
							6160103.05	2295963.13	618.51
							6160114.24	2295962.18	618.51
							6160097.97	2295924.94	618.51
							6160102.64	2295915.51	618.51
							6160109.94	2295915.61	618.51
							6160109.94	2295919.85	618.51
							6160140.45	2295916.18	618.51
							6160151.28	2295907.22	618.51
							6160154.95	2295899.19	618.51
							6160176.87	2295891.43	618.51
							6160177.89	2295885.37	618.51
							6160173.92	2295879.42	618.51
							6160153.25	2295886.06	618.51
							6160142.42	2295882.94	618.51
							6160120.77	2295889.38	618.51
							6160096.29	2295879.37	618.51
							6160060.73	2295873.43	618.51
							6160040.06	2295879.06	618.51
							6160012.50	2295876.76	618.51
							6159987.89	2295878.98	618.51
							6159968.21	2295874.65	618.51
							6159953.45	2295877.58	618.51
							6159873.72	2295876.55	618.51
							6159857.97	2295881.42	618.51
							6159842.22	2295873.22	618.51
							6159839.27	2295875.36	618.51
							6159817.62	2295871.33	618.51
							6159777.26	2295873.92	618.51
							6159757.76	2295885.59	618.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159748.04	2295886.70	618.51
							6159744.08	2295913.95	618.51
							6159736.91	2295931.88	618.51
							6159728.05	2295941.38	618.51
							6159707.07	2295952.34	618.51
							6159709.14	2295972.02	618.51
							6159715.57	2295980.88	618.51
							6159708.43	2295998.60	618.51
							6159689.67	2296013.96	618.51
							6159672.29	2295996.29	618.51
							6159668.01	2295995.28	618.51
							6159660.05	2295999.49	618.51
							6159648.90	2296017.87	618.51
							6159623.72	2296032.54	618.51
							6159611.72	2295973.99	618.51
							6159605.91	2295883.44	618.51
							6159589.73	2295860.80	618.51
							6159571.56	2295852.34	618.51
							6159543.01	2295847.43	618.51
							6159513.48	2295853.04	618.51
							6159413.16	2295846.95	618.51
CONTOURS_EX			CONTOURS_EX00145		619.51		6159967.22	2295920.41	619.51
							6159973.77	2295927.73	619.51
							6159965.26	2295937.11	619.51
							6159964.24	2295924.78	619.51
							6159967.22	2295920.41	619.51
CONTOURS_EX			CONTOURS_EX00146		619.51		6159995.77	2295895.74	619.51
							6160004.12	2295902.14	619.51
							6160005.04	2295911.41	619.51
							6159996.08	2295911.00	619.51
							6159995.77	2295895.74	619.51
CONTOURS_EX			CONTOURS_EX00147		619.51		6160069.76	2295889.17	619.51
							6160067.75	2295889.35	619.51
							6160074.84	2295894.91	619.51
							6160087.13	2295890.33	619.51
							6160069.76	2295889.17	619.51
CONTOURS_EX			CONTOURS_EX00148		619.51		6160067.69	2295888.29	619.51
							6160067.69	2295888.29	619.51
CONTOURS_EX			CONTOURS_EX00149		619.51		6159784.25	2295875.47	619.51
							6159764.47	2295883.99	619.51
							6159756.69	2295891.31	619.51
							6159752.56	2295922.72	619.51
							6159724.47	2295956.27	619.51
							6159725.48	2295971.04	619.51
							6159735.90	2295977.93	619.51
							6159730.57	2295997.61	619.51
							6159704.24	2296020.25	619.51
							6159698.82	2296031.08	619.51
							6159697.41	2296036.00	619.51
							6159705.44	2296051.75	619.51
							6159705.66	2296058.64	619.51
							6159821.92	2296058.64	619.51
							6159821.71	2296047.65	619.51
							6159818.11	2296040.92	619.51
							6159819.61	2296034.03	619.51
							6159817.69	2296029.04	619.51
							6159809.06	2296023.20	619.51
							6159815.65	2296018.55	619.51
							6159821.56	2296024.95	619.51
							6159830.41	2296021.06	619.51
							6159847.57	2295992.13	619.51
							6159879.63	2295987.33	619.51
							6159892.42	2295976.23	619.51
							6159904.83	2295977.54	619.51
							6159929.82	2295967.47	619.51
							6159924.00	2295983.83	619.51
							6159932.78	2295986.18	619.51
							6159949.89	2295955.67	619.51
							6159964.27	2295956.74	619.51
							6159972.23	2295963.25	619.51
							6159997.70	2295928.68	619.51
							6160009.55	2295932.32	619.51
							6160017.42	2295926.87	619.51
							6160037.11	2295925.21	619.51
							6160031.66	2295931.67	619.51
							6160037.11	2295939.35	619.51
							6160043.80	2295931.67	619.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160043.51	2295927.23	619.51
							6160038.75	2295924.78	619.51
							6160054.92	2295908.05	619.51
							6160044.27	2295886.11	619.51
							6160014.47	2295885.98	619.51
							6160009.55	2295894.74	619.51
							6159995.77	2295895.22	619.51
							6159990.85	2295887.26	619.51
							6159983.94	2295888.38	619.51
							6159967.22	2295880.00	619.51
							6159953.45	2295883.75	619.51
							6159947.05	2295879.99	619.51
							6159925.89	2295882.35	619.51
							6159914.08	2295879.78	619.51
							6159864.86	2295882.17	619.51
							6159853.57	2295894.27	619.51
							6159849.51	2295906.48	619.51
							6159825.49	2295914.26	619.51
							6159820.57	2295912.28	619.51
							6159819.27	2295906.08	619.51
							6159825.11	2295886.39	619.51
							6159821.56	2295878.34	619.51
							6159815.65	2295875.77	619.51
							6159806.79	2295879.82	619.51
							6159784.25	2295875.47	619.51
CONTOURS_EX			CONTOURS_EX00150		619.51		6159547.02	2295850.89	619.51
							6159514.47	2295855.41	619.51
							6159403.25	2295853.55	619.51
							6159406.20	2296058.64	619.51
							6159613.86	2296058.64	619.51
							6159600.17	2295879.50	619.51
							6159584.35	2295859.42	619.51
							6159547.02	2295850.89	619.51
CONTOURS_EX			CONTOURS_EX00151		620.51		6159746.10	2296006.13	620.51
							6159720.68	2296025.17	620.51
							6159715.27	2296041.90	620.51
							6159718.14	2296047.81	620.51
							6159715.60	2296058.64	620.51
							6159806.79	2296058.64	620.51
							6159793.01	2296035.69	620.51
							6159779.49	2296027.14	620.51
							6159775.30	2296014.58	620.51
							6159763.48	2296014.72	620.51
							6159746.10	2296006.13	620.51
CONTOURS_EX			CONTOURS_EX00152		620.51		6159826.51	2295997.58	620.51
							6159826.51	2295997.58	620.51
CONTOURS_EX			CONTOURS_EX00153		620.51		6159819.67	2295982.76	620.51
							6159819.59	2295985.27	620.51
							6159819.67	2295982.76	620.51
CONTOURS_EX			CONTOURS_EX00154		620.51		6159834.83	2295954.80	620.51
							6159829.38	2295958.19	620.51
							6159832.38	2295964.47	620.51
							6159834.83	2295954.80	620.51
CONTOURS_EX			CONTOURS_EX00155		620.51		6159872.79	2295886.34	620.51
							6159866.31	2295887.38	620.51
							6159862.89	2295896.16	620.51
							6159869.78	2295903.48	620.51
							6159877.90	2295900.41	620.51
							6159882.65	2295890.33	620.51
							6159872.79	2295886.34	620.51
CONTOURS_EX			CONTOURS_EX00156		620.51		6159782.20	2295879.48	620.51
							6159765.63	2295888.36	620.51
							6159766.33	2295901.26	620.51
							6159774.95	2295910.01	620.51
							6159763.27	2295918.87	620.51
							6159752.88	2295934.62	620.51
							6159751.74	2295945.52	620.51
							6159741.93	2295956.18	620.51
							6159746.31	2295960.21	620.51
							6159757.27	2295991.71	620.51
							6159762.50	2295995.16	620.51
							6159768.84	2295991.71	620.51
							6159785.45	2295953.64	620.51
							6159791.04	2295952.00	620.51
							6159798.47	2295938.11	620.51
							6159793.23	2295912.97	620.51
							6159806.06	2295895.25	620.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159800.44	2295886.39	620.51
							6159782.20	2295879.48	620.51
CONTOURS_EX			CONTOURS_EX00157		620.51		6159549.00	2295853.83	620.51
							6159516.44	2295858.30	620.51
							6159477.07	2295856.05	620.51
							6159428.84	2295860.09	620.51
							6159412.11	2295865.78	620.51
							6159406.18	2295877.51	620.51
							6159403.25	2295877.90	620.51
							6159406.20	2296058.64	620.51
							6159607.80	2296058.64	620.51
							6159602.29	2295945.23	620.51
							6159594.60	2295876.55	620.51
							6159582.86	2295861.31	620.51
							6159549.00	2295853.83	620.51
CONTOURS_EX			CONTOURS_EX00158		621.51		6159490.85	2296011.02	621.51
							6159497.40	2296016.31	621.51
							6159492.33	2296017.30	621.51
							6159490.85	2296011.02	621.51
CONTOURS_EX			CONTOURS_EX00159		621.51		6159481.00	2296006.11	621.51
							6159480.60	2296009.02	621.51
							6159477.90	2296008.59	621.51
							6159481.00	2296006.11	621.51
CONTOURS_EX			CONTOURS_EX00160		621.51		6159429.96	2295988.62	621.51
							6159426.07	2295989.74	621.51
							6159429.96	2295988.62	621.51
CONTOURS_EX			CONTOURS_EX00161		621.51		6159775.41	2295925.65	621.51
							6159769.92	2295927.73	621.51
							6159774.31	2295934.87	621.51
							6159779.76	2295933.64	621.51
							6159778.55	2295926.75	621.51
							6159775.41	2295925.65	621.51
CONTOURS_EX			CONTOURS_EX00162		621.51		6159555.97	2295857.68	621.51
							6159517.42	2295861.51	621.51
							6159476.08	2295859.19	621.51
							6159439.67	2295863.23	621.51
							6159430.81	2295865.16	621.51
							6159423.95	2295870.64	621.51
							6159418.87	2295881.35	621.51
							6159404.23	2295885.50	621.51
							6159405.22	2295957.84	621.51
							6159453.45	2295954.91	621.51
							6159464.27	2295947.83	621.51
							6159465.36	2295958.24	621.51
							6159480.03	2295968.07	621.51
							6159488.43	2295982.85	621.51
							6159472.15	2295995.01	621.51
							6159449.51	2295987.84	621.51
							6159433.50	2295988.50	621.51
							6159430.73	2295996.63	621.51
							6159437.70	2296001.07	621.51
							6159446.12	2296013.36	621.51
							6159453.61	2296028.12	621.51
							6159456.27	2296043.75	621.51
							6159450.49	2296050.09	621.51
							6159447.42	2296036.12	621.51
							6159437.79	2296027.04	621.51
							6159420.96	2296018.84	621.51
							6159406.20	2296017.96	621.51
							6159406.20	2296058.64	621.51
							6159490.56	2296058.64	621.51
							6159489.40	2296050.76	621.51
							6159493.80	2296046.78	621.51
							6159494.92	2296050.76	621.51
							6159492.04	2296051.75	621.51
							6159490.96	2296058.64	621.51
							6159604.33	2296058.64	621.51
							6159598.27	2295943.48	621.51
							6159594.15	2295930.68	621.51
							6159595.86	2295915.92	621.51
							6159589.93	2295873.60	621.51
							6159581.40	2295863.19	621.51
							6159555.97	2295857.68	621.51
CONTOURS_EX			CONTOURS_EX00163		622.51		6159408.18	2296027.13	622.51
							6159406.20	2296058.64	622.51
							6159438.09	2296058.64	622.51
							6159434.01	2296038.95	622.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159425.76	2296032.19	622.51
							6159408.18	2296027.13	622.51
CONTOURS_EX			CONTOURS_EX00164		622.51		6159555.82	2295859.81	622.51
							6159511.52	2295866.71	622.51
							6159486.91	2295864.28	622.51
							6159439.67	2295868.05	622.51
							6159427.71	2295876.55	622.51
							6159426.83	2295883.44	622.51
							6159420.96	2295889.95	622.51
							6159404.23	2295892.90	622.51
							6159405.22	2295946.83	622.51
							6159444.53	2295939.60	622.51
							6159452.46	2295942.79	622.51
							6159465.26	2295942.46	622.51
							6159474.10	2295950.38	622.51
							6159486.91	2295951.17	622.51
							6159493.56	2295956.27	622.51
							6159511.81	2296018.28	622.51
							6159504.75	2296058.64	622.51
							6159601.12	2296058.64	622.51
							6159593.82	2295980.88	622.51
							6159594.66	2295945.45	622.51
							6159589.78	2295931.67	622.51
							6159592.03	2295917.89	622.51
							6159585.22	2295899.19	622.51
							6159586.38	2295871.63	622.51
							6159580.41	2295865.32	622.51
							6159555.82	2295859.81	622.51
CONTOURS_EX			CONTOURS_EX00165		623.51		6159407.42	2296045.61	623.51
							6159406.20	2296058.64	623.51
							6159427.67	2296058.64	623.51
							6159422.93	2296051.08	623.51
							6159407.42	2296045.61	623.51
CONTOURS_EX			CONTOURS_EX00166		623.51		6159555.00	2295863.58	623.51
							6159525.17	2295868.55	623.51
							6159512.91	2295873.60	623.51
							6159513.87	2295889.94	623.51
							6159518.91	2295892.30	623.51
							6159513.48	2295897.02	623.51
							6159498.72	2295899.14	623.51
							6159459.35	2295896.05	623.51
							6159458.87	2295875.06	623.51
							6159439.67	2295873.65	623.51
							6159435.58	2295878.67	623.51
							6159451.60	2295927.73	623.51
							6159455.41	2295931.89	623.51
							6159467.86	2295936.24	623.51
							6159494.78	2295913.78	623.51
							6159504.63	2295913.01	623.51
							6159513.37	2295917.02	623.51
							6159516.44	2295936.19	623.51
							6159550.07	2295968.09	623.51
							6159543.97	2295974.98	623.51
							6159521.85	2295984.82	623.51
							6159524.81	2295999.08	623.51
							6159548.90	2296008.44	623.51
							6159525.14	2296025.02	623.51
							6159519.04	2296033.68	623.51
							6159515.92	2296044.86	623.51
							6159520.95	2296058.64	623.51
							6159597.29	2296058.64	623.51
							6159591.36	2296026.04	623.51
							6159593.64	2296002.53	623.51
							6159586.32	2295965.70	623.51
							6159565.26	2295971.04	623.51
							6159576.48	2295959.57	623.51
							6159588.29	2295961.50	623.51
							6159590.26	2295952.37	623.51
							6159585.33	2295931.67	623.51
							6159587.58	2295920.84	623.51
							6159578.90	2295901.16	623.51
							6159582.84	2295884.42	623.51
							6159582.45	2295869.72	623.51
							6159555.00	2295863.58	623.51
CONTOURS_EX			CONTOURS_EX00167		624.51		6159587.39	2296037.88	624.51
							6159575.49	2296041.22	624.51
							6159571.49	2296037.97	624.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159564.70	2296041.90	624.51
							6159574.51	2296050.98	624.51
							6159573.50	2296058.64	624.51
							6159592.16	2296058.64	624.51
							6159587.39	2296037.88	624.51
CONTOURS_EX			CONTOURS_EX00168		624.51		6159588.52	2296000.33	624.51
							6159582.32	2296002.48	624.51
							6159577.57	2296011.50	624.51
							6159578.90	2296018.28	624.51
							6159583.37	2296021.45	624.51
							6159588.82	2296017.83	624.51
							6159588.52	2296000.33	624.51
CONTOURS_EX			CONTOURS_EX00169		624.51		6159541.38	2295993.34	624.51
							6159532.97	2295995.64	624.51
							6159538.09	2295997.68	624.51
							6159541.38	2295993.34	624.51
CONTOURS_EX			CONTOURS_EX00170		624.51		6159578.53	2295982.76	624.51
							6159572.54	2295984.62	624.51
							6159570.70	2295990.72	624.51
							6159581.40	2295995.29	624.51
							6159585.35	2295986.79	624.51
							6159578.53	2295982.76	624.51
CONTOURS_EX			CONTOURS_EX00171		624.51		6159565.71	2295908.97	624.51
							6159565.71	2295908.97	624.51
CONTOURS_EX			CONTOURS_EX00172		624.51		6159576.48	2295874.57	624.51
							6159566.39	2295877.29	624.51
							6159558.93	2295889.51	624.51
							6159552.24	2295892.30	624.51
							6159551.27	2295897.22	624.51
							6159564.67	2295908.40	624.51
							6159572.54	2295898.24	624.51
							6159578.04	2295879.50	624.51
							6159576.48	2295874.57	624.51

APPENDIX 11.1:

CONSTRUCTION NOISE CALCULATIONS

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13448 - Sumner Place

CadnaA Noise Prediction Model: 13448-02-Construction.cna
Date: 27.10.25
Analyst: B. Maddux

Calculation Configuration

Configuration	
Parameter	**Value**
General	
Max. Error (dB)	**0.00**
Max. Search Radius (ft)	**6561.70**
Min. Dist Src to Rcvr	**0.00**
Partition	
Raster Factor	**0.50**
Max. Length of Section (ft)	**3280.80**
Min. Length of Section (ft)	**3.30**
Min. Length of Section (%)	**0.00**
Proj. Line Sources	**On**
Proj. Area Sources	**On**
Ref. Time	
Daytime Penalty (dB)	**0.00**
Recr. Time Penalty (dB)	**5.00**
Night-time Penalty (dB)	**10.00**
DTM	
Standard Height (m)	**605.51**
Model of Terrain	**Triangulation**
Reflection	
max. Order of Reflection	**2**
Search Radius Src	**328.08**
Search Radius Rcvr	**328.08**
Max. Distance Source - Rcvr	**3280.84 3280.84**
Min. Distance Rvcr - Reflector	**3.28 3.28**
Min. Distance Source - Reflector	**0.33**
Industrial (ISO 9613 (1996))	
Lateral Diffraction	**some Obj**
Obst. within Area Src do not shield	**On**
Screening	**Incl. Ground Att. over Barrier**
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	**3.0 20.0 0.0**
Temperature (°F)	**50**
rel. Humidity (%)	**70**
Ground Absorption G	**0.50**
Wind Speed for Dir. (mph)	**6.7**
Roads (TNM)	
Railways (FTA/FRA)	
Aircraft (???)	
Strictly acc. to AzB	

Receiver Noise Levels

Name	M.	ID	Level Lr			Limit. Value			Land Use			Height		Coordinates		
			Day	Night	CNEL	Day	Night	CNEL	Type	Auto	Noise Type			X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)				(ft)		(ft)	(ft)	(ft)
R01		R01	68.1	-34.9	65.1	0.0	0.0	0.0		x	Total	5.00	r	6160061.25	2295908.63	624.40
R02		R02	72.6	-30.4	69.6	0.0	0.0	0.0		x	Total	5.00	r	6160337.87	2295609.95	620.12
R03		R03	72.8	-30.2	69.8	0.0	0.0	0.0		x	Total	5.00	r	6160334.81	2295403.31	618.51
R04		R04	72.5	-30.5	69.5	0.0	0.0	0.0		x	Total	5.00	r	6160329.37	2295221.10	618.75
R05		R05	69.0	-34.0	66.0	0.0	0.0	0.0		x	Total	5.00	r	6160071.38	2295077.93	613.70
R06		R06	69.6	-33.4	66.6	0.0	0.0	0.0		x	Total	5.00	r	6159883.63	2295094.81	615.51
R07		R07	67.6	-35.4	64.6	0.0	0.0	0.0		x	Total	5.00	r	6159590.52	2295235.96	615.51
R08		R08	67.6	-35.4	64.6	0.0	0.0	0.0		x	Total	5.00	r	6159581.07	2295398.05	615.51
R09		R09	67.7	-35.4	64.6	0.0	0.0	0.0		x	Total	5.00	r	6159583.77	2295699.94	619.58
R10		R10	64.5	-38.5	61.5	0.0	0.0	0.0		x	Total	5.00	r	6159568.23	2295903.90	629.51
R11		R11	68.1	-34.9	65.1	0.0	0.0	0.0		x	Total	5.00	r	6159839.73	2295899.85	623.51

Point Source(s)

Name	M.	ID	Result. PWL			Lw / Li			Operating Time			Height		Coordinates		
			Day	Evening	Night	Type	Value	norm.	Day	Special	Night			X	Y	Z
			(dBA)	(dBA)	(dBA)			dB(A)	(min)	(min)	(min)	(ft)		(ft)	(ft)	(ft)

Line Source(s)

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li			Operating Time			Moving Pt. Src				Height
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Special	Night	Number			Speed	
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	(min)	(min)	(min)	Day	Evening	Night	(mph)	(ft)

Name	ID	Height		Coordinates			
		Begin	End	x	y	z	Ground
		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)

Area Source(s)

Name	M.	ID	Result. PWL			Result. PWL''			Lw / Li			Operating Time			Height	
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Special	Night	(ft)	
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	(min)	(min)	(min)		
CA1		CA1	120.7	17.7	17.7	75.0	-28.0	-28.0	PWL-Pt	117.7					8	r

Name	ID	Height		Coordinates			
		Begin	End	x	y	z	Ground
		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
CA1	CA1	8.00	r	6159689.67	2295805.06	623.51	615.51
				6160318.66	2295796.44	623.89	615.89
				6160311.58	2295157.59	618.66	610.66
				6159684.78	2295164.41	617.41	609.41

Building(s)

Name	Sel.	M.	ID	RB	Residents	Absorption	Height	Coordinates			
							Begin	x	y	z	Ground
							(ft)	(ft)	(ft)	(ft)	(ft)

Contour(s)

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
CONTOURS_EX			CONTOURS_EX00001		605.51		6160554.82	2294979.90	605.51
							6159389.47	2294998.60	605.51
							6159406.20	2296058.64	605.51
							6160564.67	2296059.62	605.51
							6160554.82	2294979.90	605.51
CONTOURS_EX			CONTOURS_EX00002		606.51		6159509.55	2295166.88	606.51
							6159511.91	2295170.25	606.51
							6159506.59	2295170.64	606.51
							6159509.55	2295166.88	606.51
CONTOURS_EX			CONTOURS_EX00003		606.51		6159515.45	2295125.48	606.51
							6159528.83	2295127.93	606.51
							6159528.95	2295136.11	606.51
							6159520.12	2295138.61	606.51
							6159510.98	2295130.03	606.51
							6159511.11	2295126.55	606.51
							6159515.45	2295125.48	606.51
CONTOURS_EX			CONTOURS_EX00004		606.51		6160085.33	2295081.07	606.51
							6160089.84	2295088.16	606.51
							6160085.48	2295094.21	606.51
							6160082.37	2295096.03	606.51
							6160074.51	2295093.34	606.51
							6160074.40	2295083.14	606.51
							6160085.33	2295081.07	606.51
CONTOURS_EX			CONTOURS_EX00005		606.51		6160554.82	2294979.90	606.51
							6159389.47	2294998.60	606.51
							6159406.20	2296058.64	606.51
							6160564.67	2296059.62	606.51
							6160554.82	2294979.90	606.51
CONTOURS_EX			CONTOURS_EX00006		607.51		6159485.93	2295241.67	607.51
							6159488.81	2295249.58	607.51
							6159485.93	2295255.35	607.51
							6159481.62	2295248.23	607.51
							6159485.93	2295241.67	607.51
CONTOURS_EX			CONTOURS_EX00007		607.51		6159487.89	2295206.32	607.51
							6159492.04	2295218.09	607.51
							6159483.96	2295233.68	607.51
							6159468.90	2295228.22	607.51
							6159467.81	2295217.10	607.51
							6159487.89	2295206.32	607.51
CONTOURS_EX			CONTOURS_EX00008		607.51		6160089.27	2295074.37	607.51
							6160098.03	2295083.24	607.51
							6160099.04	2295091.12	607.51
							6160084.35	2295102.78	607.51
							6160072.54	2295100.25	607.51
							6160069.36	2295087.18	607.51
							6160071.78	2295081.27	607.51
							6160080.41	2295074.47	607.51
							6160089.27	2295074.37	607.51
CONTOURS_EX			CONTOURS_EX00009		607.51		6159452.46	2295027.13	607.51
							6159454.54	2295035.01	607.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159461.00	2295038.29	607.51
							6159473.13	2295034.57	607.51
							6159486.13	2295037.76	607.51
							6159490.25	2295061.59	607.51
							6159486.73	2295077.34	607.51
							6159489.99	2295098.99	607.51
							6159495.71	2295105.94	607.51
							6159507.58	2295115.16	607.51
							6159557.78	2295126.10	607.51
							6159577.46	2295127.08	607.51
							6159579.98	2295136.39	607.51
							6159576.70	2295147.22	607.51
							6159584.73	2295164.94	607.51
							6159577.46	2295173.10	607.51
							6159540.31	2295177.73	607.51
							6159524.31	2295188.72	607.51
							6159499.70	2295191.70	607.51
							6159487.89	2295206.25	607.51
							6159474.34	2295203.09	607.51
							6159465.95	2295197.12	607.51
							6159460.44	2295209.12	607.51
							6159463.23	2295219.07	607.51
							6159461.94	2295230.88	607.51
							6159451.48	2295245.61	607.51
							6159446.56	2295242.44	607.51
							6159443.94	2295228.91	607.51
							6159444.64	2295197.36	607.51
							6159440.18	2295184.62	607.51
							6159441.57	2295167.89	607.51
							6159436.43	2295139.35	607.51
							6159440.51	2295095.05	607.51
							6159445.57	2295084.32	607.51
							6159460.71	2295096.65	607.51
							6159464.27	2295106.91	607.51
							6159473.13	2295105.13	607.51
							6159476.75	2295098.01	607.51
							6159471.43	2295081.27	607.51
							6159472.92	2295072.42	607.51
							6159468.21	2295062.71	607.51
							6159460.39	2295057.65	607.51
							6159446.56	2295080.59	607.51
							6159445.11	2295078.32	607.51
							6159445.21	2295072.06	607.51
							6159450.98	2295068.48	607.51
							6159446.22	2295063.89	607.51
							6159447.97	2295057.65	607.51
							6159444.87	2295032.06	607.51
							6159452.46	2295027.13	607.51
CONTOURS_EX			CONTOURS_EX00010		607.51		6159480.02	2295003.69	607.51
							6159485.85	2295024.26	607.51
							6159483.96	2295030.71	607.51
							6159473.91	2295013.36	607.51
							6159480.02	2295003.69	607.51
CONTOURS_EX			CONTOURS_EX00011		607.51		6160554.82	2294979.90	607.51
							6159609.94	2294994.66	607.51
							6159585.60	2294995.64	607.51
							6159581.24	2295003.52	607.51
							6159576.48	2295005.17	607.51
							6159573.25	2295003.79	607.51
							6159572.26	2294995.64	607.51
							6159389.47	2294998.60	607.51
							6159406.20	2296058.64	607.51
							6160564.67	2296059.62	607.51
							6160554.82	2294979.90	607.51
CONTOURS_EX			CONTOURS_EX00012		608.51		6159453.45	2295326.68	608.51
							6159453.45	2295326.68	608.51
CONTOURS_EX			CONTOURS_EX00013		608.51		6159901.28	2295186.49	608.51
							6159918.08	2295193.41	608.51
							6159923.64	2295200.37	608.51
							6159897.34	2295199.39	608.51
							6159898.80	2295186.59	608.51
							6159901.28	2295186.49	608.51
CONTOURS_EX			CONTOURS_EX00014		608.51		6159906.20	2295157.84	608.51
							6159898.86	2295161.00	608.51
							6159906.20	2295157.84	608.51
CONTOURS_EX			CONTOURS_EX00015		608.51		6159907.19	2295126.48	608.51
							6159906.37	2295130.49	608.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159903.56	2295130.17	608.51
							6159902.30	2295127.53	608.51
							6159907.19	2295126.48	608.51
CONTOURS_EX			CONTOURS_EX00016		608.51		6159890.45	2295124.45	608.51
							6159900.29	2295127.53	608.51
							6159884.55	2295135.79	608.51
							6159879.63	2295133.10	608.51
							6159880.45	2295125.57	608.51
							6159890.45	2295124.45	608.51
CONTOURS_EX			CONTOURS_EX00017		608.51		6159657.23	2295096.98	608.51
							6159646.66	2295101.64	608.51
							6159652.26	2295104.35	608.51
							6159658.79	2295099.61	608.51
							6159657.23	2295096.98	608.51
CONTOURS_EX			CONTOURS_EX00018		608.51		6159756.59	2295079.19	608.51
							6159765.88	2295082.82	608.51
							6159764.12	2295088.16	608.51
							6159757.29	2295086.20	608.51
							6159756.59	2295079.19	608.51
CONTOURS_EX			CONTOURS_EX00019		608.51		6160092.22	2295069.42	608.51
							6160105.98	2295084.23	608.51
							6160105.00	2295095.04	608.51
							6160094.33	2295105.88	608.51
							6160086.04	2295109.54	608.51
							6160071.56	2295107.48	608.51
							6160066.75	2295083.24	608.51
							6160080.41	2295070.42	608.51
							6160092.22	2295069.42	608.51
CONTOURS_EX			CONTOURS_EX00020		608.51		6159599.96	2294995.64	608.51
							6159592.89	2294995.64	608.51
							6159590.24	2295004.49	608.51
							6159578.45	2295013.29	608.51
							6159568.83	2295007.23	608.51
							6159566.30	2294995.64	608.51
							6159495.50	2294996.63	608.51
							6159502.20	2295040.92	608.51
							6159499.26	2295079.31	608.51
							6159503.65	2295097.02	608.51
							6159509.55	2295102.15	608.51
							6159521.36	2295098.83	608.51
							6159558.20	2295110.37	608.51
							6159567.05	2295116.29	608.51
							6159579.72	2295117.00	608.51
							6159606.00	2295098.91	608.51
							6159609.52	2295056.67	608.51
							6159621.75	2295046.80	608.51
							6159635.53	2295045.75	608.51
							6159639.59	2295050.76	608.51
							6159634.55	2295054.61	608.51
							6159634.17	2295065.53	608.51
							6159623.94	2295076.58	608.51
							6159623.60	2295084.35	608.51
							6159632.58	2295093.44	608.51
							6159640.66	2295089.35	608.51
							6159644.47	2295068.48	608.51
							6159655.35	2295053.72	608.51
							6159654.30	2295040.92	608.51
							6159658.51	2295033.69	608.51
							6159655.22	2295032.14	608.51
							6159644.39	2295036.82	608.51
							6159632.58	2295022.47	608.51
							6159604.80	2295004.72	608.51
							6159599.96	2294995.64	608.51
CONTOURS_EX			CONTOURS_EX00021		608.51		6160554.82	2294979.90	608.51
							6159688.59	2294993.68	608.51
							6159693.53	2295035.01	608.51
							6159682.46	2295055.68	608.51
							6159692.99	2295114.74	608.51
							6159682.78	2295119.37	608.51
							6159664.08	2295120.04	608.51
							6159647.34	2295131.07	608.51
							6159634.35	2295152.14	608.51
							6159620.43	2295188.56	608.51
							6159613.97	2295193.57	608.51
							6159579.59	2295181.50	608.51
							6159564.67	2295179.94	608.51
							6159552.72	2295183.50	608.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159551.93	2295186.65	608.51
							6159517.42	2295210.33	608.51
							6159505.61	2295212.98	608.51
							6159498.67	2295224.98	608.51
							6159504.70	2295254.50	608.51
							6159490.16	2295279.41	608.51
							6159493.61	2295296.83	608.51
							6159491.29	2295307.65	608.51
							6159481.99	2295315.14	608.51
							6159474.65	2295310.07	608.51
							6159468.24	2295310.63	608.51
							6159454.41	2295325.39	608.51
							6159443.70	2295292.99	608.51
							6159437.81	2295252.53	608.51
							6159428.76	2295227.93	608.51
							6159431.49	2295212.86	608.51
							6159427.58	2295177.73	608.51
							6159429.22	2295166.90	608.51
							6159418.38	2295136.39	608.51
							6159417.16	2295124.58	608.51
							6159429.45	2295097.02	608.51
							6159431.57	2295072.42	608.51
							6159429.36	2295045.84	608.51
							6159422.97	2295037.97	608.51
							6159430.81	2295032.05	608.51
							6159434.33	2295024.19	608.51
							6159433.35	2294997.61	608.51
							6159389.47	2294998.60	608.51
							6159406.20	2296058.64	608.51
							6160564.67	2296059.62	608.51
							6160554.82	2294979.90	608.51
CONTOURS_EX			CONTOURS_EX00022		609.51		6159459.35	2295538.91	609.51
							6159464.18	2295545.75	609.51
							6159457.50	2295541.78	609.51
							6159459.35	2295538.91	609.51
CONTOURS_EX			CONTOURS_EX00023		609.51		6159461.42	2295370.54	609.51
							6159457.94	2295374.58	609.51
							6159459.35	2295379.79	609.51
							6159466.43	2295376.73	609.51
							6159461.42	2295370.54	609.51
CONTOURS_EX			CONTOURS_EX00024		609.51		6160208.37	2295193.42	609.51
							6160216.55	2295201.35	609.51
							6160219.82	2295216.12	609.51
							6160214.27	2295221.68	609.51
							6160190.65	2295218.09	609.51
							6160195.57	2295210.21	609.51
							6160192.95	2295201.35	609.51
							6160208.37	2295193.42	609.51
CONTOURS_EX			CONTOURS_EX00025		609.51		6159843.27	2295168.81	609.51
							6159828.34	2295173.69	609.51
							6159827.01	2295183.64	609.51
							6159843.68	2295183.12	609.51
							6159843.27	2295168.81	609.51
CONTOURS_EX			CONTOURS_EX00026		609.51		6160027.36	2295165.82	609.51
							6160021.99	2295166.90	609.51
							6160025.30	2295169.34	609.51
							6160027.36	2295165.82	609.51
CONTOURS_EX			CONTOURS_EX00027		609.51		6160114.86	2295154.81	609.51
							6160113.88	2295166.82	609.51
							6160109.76	2295160.01	609.51
							6160114.86	2295154.81	609.51
CONTOURS_EX			CONTOURS_EX00028		609.51		6160018.50	2295128.42	609.51
							6160014.92	2295129.95	609.51
							6160016.44	2295135.12	609.51
							6160022.84	2295135.41	609.51
							6160018.50	2295128.42	609.51
CONTOURS_EX			CONTOURS_EX00029		609.51		6160110.93	2295124.46	609.51
							6160118.25	2295129.50	609.51
							6160113.88	2295138.78	609.51
							6160108.96	2295138.84	609.51
							6160104.31	2295134.42	609.51
							6160101.67	2295125.57	609.51
							6160110.93	2295124.46	609.51
CONTOURS_EX			CONTOURS_EX00030		609.51		6160092.22	2295063.97	609.51
							6160110.64	2295083.24	609.51
							6160108.59	2295105.51	609.51
							6160105.02	2295110.16	609.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160076.53	2295124.53	609.51
							6160077.04	2295120.64	609.51
							6160067.62	2295109.61	609.51
							6160059.45	2295107.16	609.51
							6160061.90	2295086.20	609.51
							6160079.43	2295066.44	609.51
							6160092.22	2295063.97	609.51
CONTOURS_EX			CONTOURS_EX00031		609.51		6159748.72	2295059.61	609.51
							6159780.84	2295076.71	609.51
							6159779.03	2295081.27	609.51
							6159764.47	2295092.88	609.51
							6159748.03	2295087.18	609.51
							6159744.78	2295080.75	609.51
							6159730.76	2295069.46	609.51
							6159733.09	2295065.64	609.51
							6159740.28	2295065.94	609.51
							6159744.74	2295059.58	609.51
							6159748.72	2295059.61	609.51
CONTOURS_EX			CONTOURS_EX00032		609.51		6159557.78	2295040.89	609.51
							6159564.29	2295042.28	609.51
							6159566.84	2295047.81	609.51
							6159560.73	2295061.27	609.51
							6159554.39	2295043.87	609.51
							6159557.78	2295040.89	609.51
CONTOURS_EX			CONTOURS_EX00033		609.51		6159993.80	2295037.26	609.51
							6159993.80	2295040.36	609.51
							6159993.80	2295037.26	609.51
CONTOURS_EX			CONTOURS_EX00034		609.51		6159759.55	2295004.41	609.51
							6159759.55	2295008.66	609.51
							6159759.55	2295004.41	609.51
CONTOURS_EX			CONTOURS_EX00035		609.51		6159413.30	2294998.60	609.51
							6159389.47	2294998.60	609.51
							6159391.44	2295132.93	609.51
							6159394.81	2295112.77	609.51
							6159415.72	2295092.10	609.51
							6159411.83	2295067.77	609.51
							6159404.51	2295058.36	609.51
							6159400.18	2295044.86	609.51
							6159404.87	2295031.71	609.51
							6159420.10	2295022.22	609.51
							6159413.30	2294998.60	609.51
CONTOURS_EX			CONTOURS_EX00036		609.51		6159561.50	2294995.64	609.51
							6159506.41	2294996.63	609.51
							6159504.93	2295009.42	609.51
							6159516.44	2295029.16	609.51
							6159530.65	2295036.00	609.51
							6159531.42	2295062.35	609.51
							6159547.28	2295083.24	609.51
							6159563.68	2295088.66	609.51
							6159578.45	2295110.91	609.51
							6159592.19	2295096.04	609.51
							6159585.26	2295064.54	609.51
							6159589.61	2295056.02	609.51
							6159596.25	2295053.80	609.51
							6159594.99	2295036.98	609.51
							6159599.01	2295033.05	609.51
							6159592.33	2295027.04	609.51
							6159587.30	2295029.28	609.51
							6159581.40	2295025.97	609.51
							6159564.80	2295010.41	609.51
							6159561.50	2294995.64	609.51
CONTOURS_EX			CONTOURS_EX00037		609.51		6160554.82	2294979.90	609.51
							6160279.23	2294983.83	609.51
							6160268.75	2294984.82	609.51
							6160254.63	2294991.36	609.51
							6160233.96	2294987.52	609.51
							6160219.19	2294994.74	609.51
							6160207.03	2294985.80	609.51
							6159914.07	2294989.74	609.51
							6159886.25	2294990.72	609.51
							6159883.56	2294994.61	609.51
							6159860.93	2295000.91	609.51
							6159829.77	2294991.71	609.51
							6159695.94	2294993.68	609.51
							6159697.57	2295020.25	609.51
							6159701.96	2295036.00	609.51
							6159693.53	2295050.76	609.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159692.75	2295066.51	609.51
							6159704.17	2295099.98	609.51
							6159714.77	2295113.25	609.51
							6159725.10	2295120.27	609.51
							6159735.93	2295123.06	609.51
							6159782.74	2295121.63	609.51
							6159788.49	2295129.50	609.51
							6159775.90	2295136.39	609.51
							6159793.01	2295142.33	609.51
							6159800.62	2295138.36	609.51
							6159796.02	2295130.49	609.51
							6159797.27	2295125.57	609.51
							6159806.79	2295121.57	609.51
							6159818.60	2295121.41	609.51
							6159827.46	2295128.82	609.51
							6159835.33	2295128.94	609.51
							6159841.52	2295120.92	609.51
							6159860.25	2295118.00	609.51
							6159972.15	2295114.24	609.51
							6159985.93	2295117.64	609.51
							6159993.03	2295125.57	609.51
							6159993.51	2295134.42	609.51
							6159995.82	2295134.48	609.51
							6160004.63	2295130.37	609.51
							6160007.93	2295119.03	609.51
							6160030.22	2295106.79	609.51
							6160040.92	2295115.85	609.51
							6160050.64	2295118.92	609.51
							6160052.82	2295124.54	609.51
							6160046.61	2295135.41	609.51
							6160049.46	2295141.31	609.51
							6160061.56	2295147.38	609.51
							6160084.35	2295149.40	609.51
							6160092.22	2295155.41	609.51
							6160093.17	2295162.97	609.51
							6160100.80	2295171.12	609.51
							6160110.93	2295174.75	609.51
							6160116.37	2295172.81	609.51
							6160124.70	2295178.14	609.51
							6160128.64	2295201.72	609.51
							6160143.41	2295198.48	609.51
							6160159.15	2295190.30	609.51
							6160192.39	2295201.35	609.51
							6160177.09	2295227.16	609.51
							6160176.15	2295251.55	609.51
							6160166.36	2295259.74	609.51
							6160132.58	2295258.51	609.51
							6160092.22	2295279.48	609.51
							6160055.81	2295289.47	609.51
							6160001.75	2295283.96	609.51
							6159957.38	2295275.13	609.51
							6159942.62	2295276.84	609.51
							6159918.01	2295285.50	609.51
							6159903.25	2295284.72	609.51
							6159886.71	2295278.92	609.51
							6159877.66	2295269.10	609.51
							6159870.71	2295280.04	609.51
							6159859.94	2295288.26	609.51
							6159843.04	2295290.10	609.51
							6159834.72	2295280.09	609.51
							6159826.48	2295275.64	609.51
							6159818.18	2295257.46	609.51
							6159821.65	2295241.71	609.51
							6159816.20	2295223.01	609.51
							6159818.74	2295214.15	609.51
							6159807.07	2295192.49	609.51
							6159813.98	2295180.68	609.51
							6159808.76	2295175.15	609.51
							6159801.87	2295172.15	609.51
							6159747.58	2295166.75	609.51
							6159740.87	2295167.89	609.51
							6159727.07	2295178.49	609.51
							6159718.36	2295176.90	609.51
							6159709.35	2295182.89	609.51
							6159707.82	2295178.28	609.51
							6159698.27	2295172.81	609.51
							6159684.74	2295169.17	609.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159672.93	2295177.73	609.51
							6159674.41	2295241.71	609.51
							6159668.01	2295280.05	609.51
							6159661.12	2295286.64	609.51
							6159656.28	2295286.00	609.51
							6159654.23	2295281.50	609.51
							6159650.43	2295288.95	609.51
							6159632.05	2295303.18	609.51
							6159621.75	2295320.73	609.51
							6159616.31	2295287.97	609.51
							6159609.13	2295269.27	609.51
							6159611.78	2295260.41	609.51
							6159608.12	2295223.01	609.51
							6159595.90	2295200.63	609.51
							6159574.51	2295185.61	609.51
							6159566.63	2295185.39	609.51
							6159559.64	2295190.42	609.51
							6159559.74	2295199.48	609.51
							6159519.39	2295229.10	609.51
							6159512.19	2295242.39	609.51
							6159511.87	2295256.47	609.51
							6159502.85	2295273.20	609.51
							6159501.57	2295286.98	609.51
							6159506.19	2295311.59	609.51
							6159500.65	2295350.96	609.51
							6159486.91	2295398.91	609.51
							6159474.55	2295405.64	609.51
							6159465.99	2295389.60	609.51
							6159462.30	2295388.73	609.51
							6159456.37	2295393.26	609.51
							6159446.61	2295410.07	609.51
							6159437.58	2295409.03	609.51
							6159436.04	2295393.28	609.51
							6159439.16	2295383.44	609.51
							6159440.23	2295347.02	609.51
							6159434.82	2295293.87	609.51
							6159428.56	2295271.51	609.51
							6159429.69	2295255.49	609.51
							6159426.14	2295247.35	609.51
							6159404.43	2295232.85	609.51
							6159407.25	2295221.11	609.51
							6159413.09	2295216.12	609.51
							6159415.11	2295209.28	609.51
							6159410.06	2295181.67	609.51
							6159413.58	2295168.87	609.51
							6159391.44	2295148.11	609.51
							6159406.20	2296058.64	609.51
							6160564.67	2296059.62	609.51
							6160554.82	2294979.90	609.51
CONTOURS_EX			CONTOURS_EX00038		610.51		6159460.33	2295534.51	610.51
							6159472.92	2295545.84	610.51
							6159470.18	2295549.68	610.51
							6159463.29	2295551.37	610.51
							6159451.47	2295543.87	610.51
							6159456.40	2295534.46	610.51
							6159460.33	2295534.51	610.51
CONTOURS_EX			CONTOURS_EX00039		610.51		6160215.26	2295449.15	610.51
							6160218.29	2295451.35	610.51
							6160216.24	2295456.67	610.51
							6160207.09	2295456.57	610.51
							6160201.87	2295449.38	610.51
							6160215.26	2295449.15	610.51
CONTOURS_EX			CONTOURS_EX00040		610.51		6159584.35	2295392.20	610.51
							6159587.73	2295398.20	610.51
							6159586.94	2295404.11	610.51
							6159580.41	2295405.87	610.51
							6159577.25	2295402.35	610.51
							6159578.21	2295397.97	610.51
							6159584.35	2295392.20	610.51
CONTOURS_EX			CONTOURS_EX00041		610.51		6159570.01	2295193.06	610.51
							6159566.57	2295193.48	610.51
							6159566.63	2295196.25	610.51
							6159574.51	2295207.54	610.51
							6159579.38	2295200.42	610.51
							6159570.01	2295193.06	610.51
CONTOURS_EX			CONTOURS_EX00042		610.51		6160279.47	2295128.28	610.51
							6160274.28	2295137.38	610.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160280.22	2295140.89	610.51
							6160285.12	2295135.39	610.51
							6160279.47	2295128.28	610.51
CONTOURS_EX			CONTOURS_EX00043		610.51		6159742.53	2294992.69	610.51
							6159714.27	2294995.42	610.51
							6159704.29	2295017.30	610.51
							6159705.30	2295030.09	610.51
							6159710.32	2295038.95	610.51
							6159701.69	2295065.53	610.51
							6159711.74	2295088.72	610.51
							6159710.31	2295097.02	610.51
							6159718.20	2295106.86	610.51
							6159731.00	2295112.65	610.51
							6159751.10	2295109.24	610.51
							6159752.60	2295096.04	610.51
							6159728.05	2295082.83	610.51
							6159723.36	2295074.16	610.51
							6159725.35	2295064.54	610.51
							6159739.86	2295041.65	610.51
							6159746.75	2295039.47	610.51
							6159759.56	2295046.84	610.51
							6159765.61	2295042.89	610.51
							6159759.32	2295029.86	610.51
							6159801.87	2295048.71	610.51
							6159806.68	2295055.68	610.51
							6159806.79	2295070.59	610.51
							6159797.34	2295079.70	610.51
							6159771.60	2295093.09	610.51
							6159765.22	2295101.19	610.51
							6159771.36	2295102.65	610.51
							6159780.22	2295099.23	610.51
							6159786.00	2295109.94	610.51
							6159792.03	2295114.01	610.51
							6159812.70	2295107.32	610.51
							6159849.11	2295106.94	610.51
							6159877.66	2295112.34	610.51
							6159943.98	2295110.20	610.51
							6159957.38	2295101.96	610.51
							6159969.95	2295102.70	610.51
							6159974.11	2295096.80	610.51
							6159987.89	2295090.38	610.51
							6159994.78	2295094.05	610.51
							6160007.58	2295091.74	610.51
							6160014.47	2295095.67	610.51
							6160030.22	2295093.39	610.51
							6160049.90	2295098.31	610.51
							6160061.58	2295078.32	610.51
							6160073.42	2295067.39	610.51
							6160073.62	2295060.60	610.51
							6160080.82	2295058.64	610.51
							6160097.23	2295003.52	610.51
							6160069.59	2295011.28	610.51
							6160056.79	2294994.88	610.51
							6160034.83	2295059.32	610.51
							6160022.34	2295066.85	610.51
							6160013.48	2295063.39	610.51
							6159978.88	2295036.98	610.51
							6159975.85	2295021.00	610.51
							6159981.52	2295007.46	610.51
							6159976.16	2295007.54	610.51
							6159971.16	2295012.80	610.51
							6159933.76	2295014.85	610.51
							6159943.99	2295036.98	610.51
							6159937.22	2295052.73	610.51
							6159949.51	2295050.01	610.51
							6159950.73	2295058.64	610.51
							6159936.71	2295065.30	610.51
							6159922.61	2295066.18	610.51
							6159912.11	2295089.23	610.51
							6159894.23	2295094.23	610.51
							6159887.62	2295092.10	610.51
							6159881.59	2295069.91	610.51
							6159871.75	2295068.08	610.51
							6159864.10	2295062.57	610.51
							6159866.62	2295051.75	610.51
							6159845.71	2295021.69	610.51
							6159828.45	2295016.30	610.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159821.56	2295003.86	610.51
							6159809.53	2295001.33	610.51
							6159797.93	2295004.16	610.51
							6159787.27	2294999.58	610.51
							6159784.25	2295005.49	610.51
							6159791.54	2295038.95	610.51
							6159744.16	2295019.89	610.51
							6159742.53	2294992.69	610.51
CONTOURS_EX			CONTOURS_EX00044		610.51		6160126.69	2294988.74	610.51
							6160126.67	2294992.25	610.51
							6160126.69	2294988.74	610.51
CONTOURS_EX			CONTOURS_EX00045		610.51		6160554.82	2294979.90	610.51
							6160356.56	2294982.85	610.51
							6160342.22	2294991.46	610.51
							6160333.37	2294992.32	610.51
							6160307.78	2294985.62	610.51
							6160290.06	2294987.07	610.51
							6160276.75	2295001.55	610.51
							6160262.08	2295044.43	610.51
							6160265.26	2295054.70	610.51
							6160260.53	2295063.97	610.51
							6160253.51	2295056.67	610.51
							6160257.75	2295043.87	610.51
							6160248.72	2295025.07	610.51
							6160238.63	2295026.16	610.51
							6160225.74	2295047.47	610.51
							6160221.16	2295049.47	610.51
							6160193.74	2295010.27	610.51
							6160160.14	2295004.32	610.51
							6160132.58	2295009.90	610.51
							6160109.50	2295005.49	610.51
							6160104.90	2295012.26	610.51
							6160108.49	2295057.65	610.51
							6160104.67	2295063.56	610.51
							6160117.48	2295084.23	610.51
							6160113.88	2295107.54	610.51
							6160124.70	2295109.01	610.51
							6160147.34	2295122.65	610.51
							6160167.03	2295113.47	610.51
							6160172.93	2295103.96	610.51
							6160189.67	2295100.68	610.51
							6160201.48	2295103.68	610.51
							6160219.19	2295090.75	610.51
							6160237.89	2295094.98	610.51
							6160259.55	2295081.59	610.51
							6160265.43	2295098.01	610.51
							6160301.68	2295113.94	610.51
							6160315.43	2295131.47	610.51
							6160308.06	2295140.33	610.51
							6160310.70	2295153.16	610.51
							6160308.85	2295157.06	610.51
							6160288.88	2295161.00	610.51
							6160297.99	2295172.81	610.51
							6160302.33	2295203.32	610.51
							6160297.94	2295214.15	610.51
							6160300.11	2295232.64	610.51
							6160297.28	2295245.31	610.51
							6160299.93	2295261.37	610.51
							6160306.02	2295267.30	610.51
							6160300.52	2295276.78	610.51
							6160296.15	2295295.84	610.51
							6160299.95	2295314.49	610.51
							6160298.87	2295331.22	610.51
							6160278.97	2295355.88	610.51
							6160284.42	2295407.06	610.51
							6160280.49	2295427.73	610.51
							6160272.24	2295445.35	610.51
							6160263.48	2295455.24	610.51
							6160252.77	2295460.09	610.51
							6160243.80	2295456.72	610.51
							6160234.73	2295448.40	610.51
							6160228.79	2295424.78	610.51
							6160238.42	2295403.12	610.51
							6160244.14	2295380.49	610.51
							6160236.80	2295370.64	610.51
							6160232.97	2295357.82	610.51
							6160203.45	2295344.13	610.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160147.67	2295358.18	610.51
							6160113.88	2295372.52	610.51
							6160078.45	2295364.25	610.51
							6160063.68	2295366.29	610.51
							6160026.28	2295391.09	610.51
							6160009.55	2295389.16	610.51
							6159973.55	2295399.19	610.51
							6159973.04	2295404.11	610.51
							6159965.49	2295411.98	610.51
							6159964.98	2295415.21	610.51
							6159969.19	2295418.21	610.51
							6159974.11	2295406.45	610.51
							6159983.10	2295408.91	610.51
							6159981.50	2295419.86	610.51
							6159989.86	2295432.30	610.51
							6160002.66	2295438.20	610.51
							6160006.59	2295444.77	610.51
							6160022.34	2295454.07	610.51
							6160050.79	2295460.21	610.51
							6160067.62	2295458.61	610.51
							6160090.26	2295461.43	610.51
							6160125.69	2295451.96	610.51
							6160129.63	2295454.37	610.51
							6160137.89	2295438.95	610.51
							6160159.15	2295435.31	610.51
							6160167.03	2295434.91	610.51
							6160183.83	2295440.46	610.51
							6160194.95	2295446.43	610.51
							6160195.25	2295458.24	610.51
							6160176.98	2295479.02	610.51
							6160164.08	2295506.47	610.51
							6160143.74	2295500.23	610.51
							6160128.64	2295487.11	610.51
							6160098.13	2295495.06	610.51
							6160074.11	2295508.44	610.51
							6160043.49	2295513.84	610.51
							6160014.47	2295523.28	610.51
							6160000.69	2295522.67	610.51
							6159984.94	2295513.69	610.51
							6159939.67	2295512.16	610.51
							6159930.01	2295504.50	610.51
							6159918.83	2295484.98	610.51
							6159879.63	2295460.54	610.51
							6159830.92	2295455.29	610.51
							6159824.51	2295438.56	610.51
							6159825.80	2295423.79	610.51
							6159819.86	2295416.63	610.51
							6159815.13	2295398.20	610.51
							6159818.18	2295375.57	610.51
							6159807.48	2295356.86	610.51
							6159808.45	2295337.49	610.51
							6159805.81	2295332.40	610.51
							6159797.82	2295328.32	610.51
							6159798.46	2295322.42	610.51
							6159805.59	2295315.53	610.51
							6159799.62	2295289.94	610.51
							6159799.51	2295265.33	610.51
							6159787.11	2295230.72	610.51
							6159778.90	2295236.45	610.51
							6159780.59	2295244.66	610.51
							6159758.51	2295262.38	610.51
							6159744.78	2295269.27	610.51
							6159727.34	2295259.42	610.51
							6159726.89	2295253.69	610.51
							6159703.45	2295246.34	610.51
							6159700.49	2295248.07	610.51
							6159689.85	2295234.82	610.51
							6159682.26	2295235.80	610.51
							6159696.51	2295251.55	610.51
							6159688.62	2295254.44	610.51
							6159687.98	2295260.41	610.51
							6159677.95	2295272.22	610.51
							6159677.81	2295285.96	610.51
							6159671.76	2295304.51	610.51
							6159673.55	2295312.57	610.51
							6159662.17	2295364.74	610.51
							6159662.46	2295378.52	610.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159654.23	2295399.21	610.51
							6159648.62	2295397.22	610.51
							6159654.47	2295424.78	610.51
							6159645.24	2295429.70	610.51
							6159632.62	2295447.45	610.51
							6159623.72	2295451.61	610.51
							6159619.50	2295440.53	610.51
							6159619.57	2295427.73	610.51
							6159612.29	2295412.97	610.51
							6159607.57	2295339.73	610.51
							6159600.78	2295313.56	610.51
							6159597.22	2295281.08	610.51
							6159599.06	2295265.33	610.51
							6159592.88	2295235.80	610.51
							6159591.24	2295231.40	610.51
							6159577.23	2295253.52	610.51
							6159572.74	2295255.49	610.51
							6159576.62	2295246.63	610.51
							6159568.34	2295226.94	610.51
							6159568.60	2295214.61	610.51
							6159534.15	2295243.99	610.51
							6159518.00	2295264.35	610.51
							6159514.07	2295289.94	610.51
							6159524.57	2295318.48	610.51
							6159511.75	2295335.21	610.51
							6159514.74	2295348.72	610.51
							6159502.00	2295409.03	610.51
							6159485.51	2295438.56	610.51
							6159459.35	2295469.21	610.51
							6159451.48	2295472.80	610.51
							6159451.74	2295480.88	610.51
							6159447.54	2295489.54	610.51
							6159436.52	2295497.80	610.51
							6159424.97	2295480.81	610.51
							6159413.09	2295485.65	610.51
							6159405.04	2295484.01	610.51
							6159406.93	2295474.98	610.51
							6159415.20	2295463.31	610.51
							6159418.78	2295435.39	610.51
							6159424.72	2295420.84	610.51
							6159425.10	2295371.63	610.51
							6159430.44	2295348.01	610.51
							6159422.55	2295308.64	610.51
							6159418.09	2295300.68	610.51
							6159404.83	2295291.90	610.51
							6159404.24	2295284.02	610.51
							6159393.41	2295280.88	610.51
							6159406.20	2296058.64	610.51
							6160564.67	2296059.62	610.51
							6160554.82	2294979.90	610.51
CONTOURS_EX			CONTOURS_EX00046		611.51		6159964.31	2295596.98	611.51
							6159964.31	2295596.98	611.51
CONTOURS_EX			CONTOURS_EX00047		611.51		6159443.63	2295509.40	611.51
							6159438.31	2295514.35	611.51
							6159434.75	2295526.16	611.51
							6159439.67	2295539.91	611.51
							6159441.96	2295532.39	611.51
							6159453.00	2295528.12	611.51
							6159443.63	2295509.40	611.51
CONTOURS_EX			CONTOURS_EX00048		611.51		6159682.90	2295460.09	611.51
							6159679.20	2295462.18	611.51
							6159673.58	2295480.88	611.51
							6159677.85	2295488.24	611.51
							6159682.78	2295489.67	611.51
							6159688.56	2295481.86	611.51
							6159682.90	2295460.09	611.51
CONTOURS_EX			CONTOURS_EX00049		611.51		6159804.88	2295374.53	611.51
							6159804.88	2295374.53	611.51
CONTOURS_EX			CONTOURS_EX00050		611.51		6159679.93	2295362.66	611.51
							6159670.75	2295408.81	611.51
							6159676.41	2295418.34	611.51
							6159687.72	2295423.79	611.51
							6159683.70	2295444.46	611.51
							6159685.97	2295452.10	611.51
							6159694.59	2295453.13	611.51
							6159748.72	2295434.06	611.51
							6159755.41	2295424.78	611.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159756.91	2295410.68	611.51
							6159733.96	2295403.38	611.51
							6159710.33	2295405.45	611.51
							6159697.54	2295399.96	611.51
							6159693.54	2295393.34	611.51
							6159692.04	2295376.55	611.51
							6159683.76	2295363.92	611.51
							6159679.93	2295362.66	611.51
CONTOURS_EX			CONTOURS_EX00051		611.51		6159690.71	2295318.42	611.51
							6159684.74	2295318.46	611.51
							6159684.55	2295324.58	611.51
							6159694.84	2295319.46	611.51
							6159690.71	2295318.42	611.51
CONTOURS_EX			CONTOURS_EX00052		611.51		6159395.48	2295303.61	611.51
							6159397.34	2295476.74	611.51
							6159409.94	2295451.35	611.51
							6159408.54	2295395.25	611.51
							6159412.97	2295382.46	611.51
							6159410.40	2295372.61	611.51
							6159413.88	2295348.99	611.51
							6159405.85	2295330.29	611.51
							6159406.20	2295310.61	611.51
							6159395.48	2295303.61	611.51
CONTOURS_EX			CONTOURS_EX00053		611.51		6159538.29	2295296.62	611.51
							6159536.27	2295301.75	611.51
							6159539.08	2295308.33	611.51
							6159550.84	2295306.67	611.51
							6159538.29	2295296.62	611.51
CONTOURS_EX			CONTOURS_EX00054		611.51		6159722.17	2295096.01	611.51
							6159718.89	2295098.99	611.51
							6159730.66	2295100.96	611.51
							6159722.17	2295096.01	611.51
CONTOURS_EX			CONTOURS_EX00055		611.51		6160123.07	2295089.80	611.51
							6160120.73	2295095.10	611.51
							6160129.08	2295094.07	611.51
							6160123.07	2295089.80	611.51
CONTOURS_EX			CONTOURS_EX00056		611.51		6159954.67	2295086.94	611.51
							6159954.67	2295086.94	611.51
CONTOURS_EX			CONTOURS_EX00057		611.51		6159950.74	2295083.98	611.51
							6159934.93	2295097.02	611.51
							6159936.70	2295103.92	611.51
							6159940.46	2295103.72	611.51
							6159952.90	2295089.58	611.51
							6159950.74	2295083.98	611.51
CONTOURS_EX			CONTOURS_EX00058		611.51		6160326.48	2295070.42	611.51
							6160326.89	2295073.81	611.51
							6160323.52	2295074.59	611.51
							6160322.07	2295069.98	611.51
							6160326.48	2295070.42	611.51
CONTOURS_EX			CONTOURS_EX00059		611.51		6159965.33	2295066.44	611.51
							6159957.38	2295069.18	611.51
							6159954.43	2295086.19	611.51
							6159962.30	2295076.18	611.51
							6159974.47	2295070.45	611.51
							6159965.33	2295066.44	611.51
CONTOURS_EX			CONTOURS_EX00060		611.51		6160161.40	2295052.45	611.51
							6160156.35	2295053.72	611.51
							6160153.76	2295061.07	611.51
							6160159.59	2295064.98	611.51
							6160164.08	2295059.81	611.51
							6160194.59	2295076.30	611.51
							6160195.74	2295084.23	611.51
							6160201.48	2295088.86	611.51
							6160202.30	2295078.32	611.51
							6160214.58	2295068.48	611.51
							6160197.54	2295073.26	611.51
							6160161.40	2295052.45	611.51
CONTOURS_EX			CONTOURS_EX00061		611.51		6160061.76	2295041.85	611.51
							6160057.40	2295058.64	611.51
							6160048.87	2295074.38	611.51
							6160052.10	2295080.06	611.51
							6160066.69	2295066.51	611.51
							6160065.26	2295062.57	611.51
							6160070.87	2295045.54	611.51
							6160061.76	2295041.85	611.51
CONTOURS_EX			CONTOURS_EX00062		611.51		6160554.82	2294979.90	611.51
							6160478.05	2294983.30	611.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160440.65	2294991.17	611.51
							6160398.44	2295007.57	611.51
							6160386.08	2295003.08	611.51
							6160366.83	2295008.49	611.51
							6160346.14	2295023.19	611.51
							6160322.54	2295026.93	611.51
							6160309.74	2295049.27	611.51
							6160304.58	2295052.49	611.51
							6160302.85	2295060.60	611.51
							6160287.32	2295077.34	611.51
							6160285.96	2295088.32	611.51
							6160317.16	2295094.07	611.51
							6160325.49	2295106.12	611.51
							6160332.38	2295109.35	611.51
							6160347.15	2295106.34	611.51
							6160351.08	2295110.74	611.51
							6160358.96	2295098.28	611.51
							6160379.63	2295107.64	611.51
							6160392.42	2295107.60	611.51
							6160413.09	2295115.71	611.51
							6160431.79	2295112.38	611.51
							6160467.17	2295116.76	611.51
							6160469.19	2295122.85	611.51
							6160437.57	2295144.27	611.51
							6160447.11	2295154.53	611.51
							6160469.86	2295156.39	611.51
							6160478.05	2295162.95	611.51
							6160477.52	2295171.83	611.51
							6160464.33	2295186.64	611.51
							6160464.80	2295233.83	611.51
							6160460.24	2295254.50	611.51
							6160468.21	2295278.73	611.51
							6160480.72	2295293.87	611.51
							6160487.33	2295307.65	611.51
							6160490.36	2295322.42	611.51
							6160481.14	2295333.37	611.51
							6160464.01	2295372.61	611.51
							6160468.34	2295401.29	611.51
							6160461.47	2295412.13	611.51
							6160453.81	2295414.31	611.51
							6160449.59	2295419.86	611.51
							6160450.49	2295425.57	611.51
							6160463.29	2295434.22	611.51
							6160464.27	2295467.25	611.51
							6160455.62	2295483.06	611.51
							6160440.65	2295491.25	611.51
							6160429.82	2295484.45	611.51
							6160415.27	2295417.89	611.51
							6160412.61	2295378.03	611.51
							6160423.03	2295305.68	611.51
							6160419.37	2295288.95	611.51
							6160419.68	2295256.47	611.51
							6160410.16	2295222.02	611.51
							6160413.33	2295200.37	611.51
							6160411.81	2295183.64	611.51
							6160397.34	2295170.16	611.51
							6160374.71	2295166.57	611.51
							6160361.91	2295151.00	611.51
							6160334.35	2295151.53	611.51
							6160322.36	2295169.68	611.51
							6160314.74	2295173.87	611.51
							6160308.83	2295188.63	611.51
							6160310.29	2295201.35	611.51
							6160304.73	2295216.12	611.51
							6160305.37	2295247.61	611.51
							6160310.38	2295267.93	611.51
							6160302.67	2295295.84	611.51
							6160308.28	2295308.64	611.51
							6160310.37	2295334.23	611.51
							6160306.10	2295346.04	611.51
							6160307.69	2295415.92	611.51
							6160300.44	2295433.64	611.51
							6160306.11	2295450.37	611.51
							6160307.72	2295482.85	611.51
							6160305.46	2295490.38	611.51
							6160308.88	2295501.55	611.51
							6160305.78	2295578.32	611.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160308.95	2295597.02	611.51
							6160305.03	2295604.90	611.51
							6160309.55	2295620.84	611.51
							6160304.73	2295643.28	611.51
							6160308.94	2295648.20	611.51
							6160309.43	2295658.05	611.51
							6160300.76	2295699.38	611.51
							6160303.45	2295708.24	611.51
							6160297.80	2295718.09	611.51
							6160292.03	2295753.27	611.51
							6160280.22	2295764.13	611.51
							6160247.74	2295772.35	611.51
							6160219.19	2295774.73	611.51
							6160201.48	2295763.50	611.51
							6160163.09	2295756.21	611.51
							6160115.21	2295737.42	611.51
							6160097.54	2295719.07	611.51
							6160092.27	2295681.67	611.51
							6160087.97	2295672.81	611.51
							6160062.89	2295656.87	611.51
							6160044.00	2295626.38	611.51
							6160027.59	2295613.43	611.51
							6159985.12	2295623.78	611.51
							6159970.38	2295634.42	611.51
							6159954.75	2295640.65	611.51
							6159944.59	2295656.08	611.51
							6159937.70	2295655.75	611.51
							6159923.25	2295632.46	611.51
							6159917.95	2295599.98	611.51
							6159917.89	2295582.26	611.51
							6159927.99	2295565.53	611.51
							6159928.64	2295553.72	611.51
							6159911.86	2295536.98	611.51
							6159890.45	2295523.21	611.51
							6159878.64	2295522.77	611.51
							6159872.57	2295525.99	611.51
							6159847.71	2295549.36	611.51
							6159817.62	2295557.04	611.51
							6159764.47	2295552.09	611.51
							6159755.63	2295558.66	611.51
							6159754.93	2295564.54	611.51
							6159748.72	2295571.92	611.51
							6159720.18	2295572.99	611.51
							6159710.57	2295571.19	611.51
							6159700.09	2295552.73	611.51
							6159682.36	2295535.01	611.51
							6159680.40	2295517.30	611.51
							6159677.85	2295515.44	611.51
							6159671.82	2295529.11	611.51
							6159662.59	2295539.43	611.51
							6159650.76	2295541.90	611.51
							6159637.50	2295561.21	611.51
							6159624.70	2295563.17	611.51
							6159622.16	2295539.94	611.51
							6159614.93	2295525.17	611.51
							6159615.07	2295510.41	611.51
							6159606.35	2295490.72	611.51
							6159609.60	2295467.10	611.51
							6159606.00	2295445.85	611.51
							6159600.41	2295432.65	611.51
							6159599.68	2295417.32	611.51
							6159592.22	2295412.00	611.51
							6159582.38	2295412.94	611.51
							6159571.45	2295408.15	611.51
							6159565.91	2295401.88	611.51
							6159569.59	2295391.28	611.51
							6159538.86	2295374.58	611.51
							6159565.65	2295354.70	611.51
							6159584.35	2295367.00	611.51
							6159585.26	2295373.67	611.51
							6159594.19	2295376.41	611.51
							6159597.53	2295371.63	611.51
							6159591.75	2295356.86	611.51
							6159595.82	2295351.94	611.51
							6159596.90	2295342.10	611.51
							6159593.21	2295334.25	611.51
							6159578.45	2295329.09	611.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159574.81	2295321.13	611.51
							6159551.13	2295329.31	611.51
							6159549.26	2295341.12	611.51
							6159524.23	2295384.34	611.51
							6159523.30	2295404.11	611.51
							6159516.16	2295412.97	611.51
							6159514.87	2295429.70	611.51
							6159500.59	2295439.44	611.51
							6159493.80	2295449.45	611.51
							6159484.99	2295452.38	611.51
							6159465.94	2295467.79	611.51
							6159451.11	2295498.60	611.51
							6159456.72	2295526.82	611.51
							6159471.76	2295523.20	611.51
							6159472.31	2295537.97	611.51
							6159480.34	2295546.83	611.51
							6159465.26	2295560.50	611.51
							6159456.40	2295556.61	611.51
							6159445.57	2295560.11	611.51
							6159430.81	2295555.72	611.51
							6159413.22	2295564.67	611.51
							6159398.33	2295566.73	611.51
							6159406.20	2296058.64	611.51
							6160564.67	2296059.62	611.51
							6160554.82	2294979.90	611.51
CONTOURS_EX			CONTOURS_EX00063		612.51		6159819.59	2295681.57	612.51
							6159827.23	2295694.46	612.51
							6159825.49	2295700.36	612.51
							6159817.62	2295702.97	612.51
							6159815.16	2295691.51	612.51
							6159819.59	2295681.57	612.51
CONTOURS_EX			CONTOURS_EX00064		612.51		6159464.28	2295580.28	612.51
							6159444.46	2295589.15	612.51
							6159445.39	2295609.82	612.51
							6159477.07	2295643.83	612.51
							6159496.11	2295641.66	612.51
							6159501.85	2295633.61	612.51
							6159509.15	2295611.79	612.51
							6159507.93	2295598.63	612.51
							6159492.82	2295597.61	612.51
							6159480.02	2295601.71	612.51
							6159475.47	2295598.61	612.51
							6159469.19	2295583.26	612.51
							6159464.28	2295580.28	612.51
CONTOURS_EX			CONTOURS_EX00065		612.51		6159396.65	2295432.35	612.51
							6159396.36	2295468.09	612.51
							6159403.21	2295451.35	612.51
							6159396.65	2295432.35	612.51
CONTOURS_EX			CONTOURS_EX00066		612.51		6160359.29	2295170.50	612.51
							6160347.15	2295170.22	612.51
							6160341.11	2295178.59	612.51
							6160321.07	2295187.08	612.51
							6160316.02	2295195.45	612.51
							6160310.37	2295218.09	612.51
							6160312.81	2295222.89	612.51
							6160310.58	2295247.61	612.51
							6160313.66	2295269.27	612.51
							6160308.93	2295282.23	612.51
							6160308.48	2295294.86	612.51
							6160315.21	2295333.24	612.51
							6160309.45	2295348.99	612.51
							6160315.08	2295356.86	612.51
							6160315.99	2295372.61	612.51
							6160313.65	2295376.52	612.51
							6160315.56	2295400.17	612.51
							6160311.02	2295433.34	612.51
							6160313.31	2295450.37	612.51
							6160310.93	2295492.69	612.51
							6160314.29	2295521.23	612.51
							6160310.51	2295574.38	612.51
							6160312.47	2295690.53	612.51
							6160308.63	2295724.98	612.51
							6160309.15	2295762.38	612.51
							6160303.84	2295772.67	612.51
							6160287.11	2295781.75	612.51
							6160221.16	2295786.89	612.51
							6160188.99	2295785.69	612.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160125.54	2295772.07	612.51
							6160084.35	2295778.06	612.51
							6160074.51	2295775.49	612.51
							6160065.65	2295764.49	612.51
							6160055.81	2295742.69	612.51
							6160039.08	2295732.74	612.51
							6160015.82	2295749.58	612.51
							6160008.56	2295758.67	612.51
							6159983.96	2295763.74	612.51
							6159952.46	2295782.07	612.51
							6159922.93	2295776.47	612.51
							6159916.41	2295768.28	612.51
							6159920.72	2295742.69	612.51
							6159907.93	2295715.13	612.51
							6159914.63	2295688.56	612.51
							6159908.36	2295672.62	612.51
							6159907.13	2295657.06	612.51
							6159894.89	2295646.23	612.51
							6159894.39	2295627.90	612.51
							6159888.48	2295622.72	612.51
							6159877.61	2295628.52	612.51
							6159871.01	2295653.37	612.51
							6159846.16	2295669.04	612.51
							6159834.23	2295665.06	612.51
							6159830.96	2295659.03	612.51
							6159841.37	2295637.38	612.51
							6159834.35	2295626.95	612.51
							6159829.43	2295626.73	612.51
							6159798.22	2295633.73	612.51
							6159794.01	2295648.21	612.51
							6159780.22	2295655.51	612.51
							6159752.66	2295655.82	612.51
							6159746.75	2295670.05	612.51
							6159738.88	2295665.54	612.51
							6159708.37	2295672.43	612.51
							6159690.63	2295623.60	612.51
							6159685.73	2295597.34	612.51
							6159678.84	2295594.65	612.51
							6159661.53	2295611.79	612.51
							6159658.25	2295620.72	612.51
							6159645.17	2295623.39	612.51
							6159634.62	2295640.33	612.51
							6159627.56	2295641.41	612.51
							6159612.75	2295601.94	612.51
							6159609.40	2295573.40	612.51
							6159609.98	2295563.56	612.51
							6159614.24	2295558.64	612.51
							6159609.03	2295537.97	612.51
							6159607.93	2295510.41	612.51
							6159603.86	2295500.74	612.51
							6159593.74	2295491.71	612.51
							6159590.18	2295481.94	612.51
							6159589.85	2295459.23	612.51
							6159573.72	2295436.39	612.51
							6159552.85	2295432.83	612.51
							6159516.44	2295446.79	612.51
							6159502.66	2295462.76	612.51
							6159487.89	2295460.67	612.51
							6159468.62	2295474.40	612.51
							6159471.72	2295480.88	612.51
							6159466.05	2295490.72	612.51
							6159470.39	2295496.63	612.51
							6159473.96	2295514.35	612.51
							6159483.82	2295512.38	612.51
							6159484.78	2295541.90	612.51
							6159488.37	2295545.84	612.51
							6159479.44	2295565.53	612.51
							6159497.74	2295581.92	612.51
							6159515.45	2295592.12	612.51
							6159524.01	2295603.23	612.51
							6159524.99	2295618.37	612.51
							6159515.65	2295644.47	612.51
							6159493.09	2295658.05	612.51
							6159479.04	2295659.59	612.51
							6159462.30	2295656.84	612.51
							6159454.00	2295650.17	612.51
							6159428.53	2295617.01	612.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159411.12	2295589.41	612.51
							6159398.33	2295579.15	612.51
							6159406.20	2296058.64	612.51
							6160564.67	2296059.62	612.51
							6160558.76	2295337.09	612.51
							6160546.95	2295338.67	612.51
							6160530.22	2295346.55	612.51
							6160493.63	2295349.81	612.51
							6160482.43	2295358.83	612.51
							6160475.79	2295409.72	612.51
							6160471.10	2295418.87	612.51
							6160471.24	2295477.93	612.51
							6160466.62	2295519.27	612.51
							6160472.04	2295544.75	612.51
							6160468.86	2295560.27	612.51
							6160450.90	2295567.91	612.51
							6160446.89	2295573.74	612.51
							6160450.91	2295589.15	612.51
							6160461.32	2295602.05	612.51
							6160466.16	2295613.75	612.51
							6160458.37	2295618.11	612.51
							6160448.52	2295615.70	612.51
							6160418.47	2295596.04	612.51
							6160417.93	2295584.31	612.51
							6160409.18	2295572.42	612.51
							6160403.24	2295546.83	612.51
							6160410.73	2295486.79	612.51
							6160408.72	2295459.66	612.51
							6160405.99	2295455.29	612.51
							6160409.44	2295446.72	612.51
							6160409.37	2295432.87	612.51
							6160402.83	2295412.97	612.51
							6160402.34	2295395.25	612.51
							6160394.41	2295375.57	612.51
							6160396.13	2295364.51	612.51
							6160405.15	2295344.98	612.51
							6160411.73	2295304.70	612.51
							6160391.50	2295231.86	612.51
							6160402.07	2295200.37	612.51
							6160402.09	2295190.53	612.51
							6160392.42	2295183.16	612.51
							6160370.77	2295184.36	612.51
							6160359.29	2295170.50	612.51
CONTOURS_EX			CONTOURS_EX00067		612.51		6160412.21	2295079.20	612.51
							6160409.36	2295080.29	612.51
							6160413.09	2295098.59	612.51
							6160416.23	2295089.33	612.51
							6160412.21	2295079.20	612.51
CONTOURS_EX			CONTOURS_EX00068		612.51		6160528.26	2294992.68	612.51
							6160521.44	2294993.76	612.51
							6160517.81	2294998.99	612.51
							6160506.53	2294999.51	612.51
							6160472.15	2295016.86	612.51
							6160467.10	2295007.46	612.51
							6160442.40	2295004.50	612.51
							6160405.93	2295050.76	612.51
							6160411.27	2295064.39	612.51
							6160422.93	2295070.12	612.51
							6160449.51	2295065.43	612.51
							6160467.82	2295065.92	612.51
							6160467.93	2295073.12	612.51
							6160457.51	2295090.13	612.51
							6160439.65	2295095.05	612.51
							6160445.57	2295105.00	612.51
							6160458.37	2295106.46	612.51
							6160468.21	2295092.87	612.51
							6160483.96	2295097.66	612.51
							6160499.71	2295095.72	612.51
							6160507.58	2295090.56	612.51
							6160516.44	2295091.76	612.51
							6160526.16	2295111.79	612.51
							6160541.75	2295114.03	612.51
							6160547.42	2295117.69	612.51
							6160542.86	2295129.50	612.51
							6160514.47	2295149.80	612.51
							6160499.38	2295164.61	612.51
							6160496.88	2295174.90	612.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160487.89	2295177.68	612.51
							6160472.50	2295189.54	612.51
							6160468.52	2295210.21	612.51
							6160470.18	2295223.93	612.51
							6160484.02	2295223.99	612.51
							6160483.22	2295263.36	612.51
							6160476.27	2295270.25	612.51
							6160478.26	2295274.19	612.51
							6160486.91	2295279.29	612.51
							6160513.48	2295279.80	612.51
							6160535.14	2295286.32	612.51
							6160547.93	2295286.40	612.51
							6160557.78	2295283.71	612.51
							6160556.79	2295119.45	612.51
							6160553.61	2295117.69	612.51
							6160556.79	2295116.25	612.51
							6160555.81	2294997.29	612.51
							6160538.09	2294997.91	612.51
							6160528.26	2294992.68	612.51
CONTOURS_EX			CONTOURS_EX00069		613.51		6159569.59	2295731.73	613.51
							6159571.59	2295733.83	613.51
							6159566.63	2295743.56	613.51
							6159559.74	2295744.14	613.51
							6159557.66	2295737.65	613.51
							6159569.59	2295731.73	613.51
CONTOURS_EX			CONTOURS_EX00070		613.51		6159582.38	2295710.05	613.51
							6159587.15	2295713.16	613.51
							6159591.43	2295724.18	613.51
							6159576.48	2295727.44	613.51
							6159576.82	2295715.13	613.51
							6159582.38	2295710.05	613.51
CONTOURS_EX			CONTOURS_EX00071		613.51		6160366.83	2295523.78	613.51
							6160369.49	2295526.16	613.51
							6160356.92	2295530.09	613.51
							6160366.83	2295523.78	613.51
CONTOURS_EX			CONTOURS_EX00072		613.51		6160328.51	2295385.34	613.51
							6160323.52	2295387.08	613.51
							6160320.86	2295413.95	613.51
							6160326.71	2295453.32	613.51
							6160320.38	2295459.03	613.51
							6160321.83	2295466.39	613.51
							6160314.90	2295489.97	613.51
							6160319.75	2295525.17	613.51
							6160314.90	2295546.07	613.51
							6160314.06	2295567.49	613.51
							6160316.13	2295690.53	613.51
							6160312.42	2295724.98	613.51
							6160315.45	2295769.27	613.51
							6160311.71	2295780.73	613.51
							6160290.01	2295789.89	613.51
							6160269.39	2295787.50	613.51
							6160247.74	2295791.72	613.51
							6160195.57	2295793.96	613.51
							6160147.34	2295789.15	613.51
							6160118.80	2295793.38	613.51
							6160090.26	2295791.96	613.51
							6160076.32	2295795.68	613.51
							6160018.41	2295790.58	613.51
							6160002.66	2295794.49	613.51
							6159943.60	2295797.06	613.51
							6159914.08	2295796.75	613.51
							6159894.39	2295790.08	613.51
							6159849.11	2295793.87	613.51
							6159800.89	2295789.04	613.51
							6159794.69	2295784.03	613.51
							6159793.21	2295767.10	613.51
							6159786.23	2295766.31	613.51
							6159759.55	2295739.61	613.51
							6159729.04	2295722.99	613.51
							6159711.32	2295704.59	613.51
							6159693.60	2295710.10	613.51
							6159685.73	2295706.85	613.51
							6159679.68	2295708.39	613.51
							6159662.11	2295692.45	613.51
							6159648.33	2295693.60	613.51
							6159633.38	2295706.09	613.51
							6159619.78	2295695.67	613.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159608.48	2295649.19	613.51
							6159607.72	2295614.74	613.51
							6159601.34	2295576.35	613.51
							6159605.40	2295555.68	613.51
							6159600.02	2295502.61	613.51
							6159592.22	2295495.96	613.51
							6159580.80	2295493.29	613.51
							6159579.01	2295489.17	613.51
							6159564.68	2295485.80	613.51
							6159564.49	2295478.91	613.51
							6159559.77	2295471.99	613.51
							6159551.87	2295473.38	613.51
							6159546.95	2295465.27	613.51
							6159531.20	2295469.73	613.51
							6159518.41	2295462.26	613.51
							6159509.55	2295469.67	613.51
							6159488.88	2295469.48	613.51
							6159482.39	2295473.99	613.51
							6159481.24	2295482.61	613.51
							6159489.10	2295492.69	613.51
							6159491.22	2295501.18	613.51
							6159495.77	2295500.57	613.51
							6159498.39	2295541.90	613.51
							6159493.50	2295552.73	613.51
							6159493.49	2295562.88	613.51
							6159498.72	2295570.45	613.51
							6159506.59	2295574.61	613.51
							6159523.33	2295576.37	613.51
							6159528.71	2295582.78	613.51
							6159537.78	2295608.83	613.51
							6159528.15	2295641.31	613.51
							6159515.14	2295655.09	613.51
							6159504.63	2295673.39	613.51
							6159495.77	2295677.34	613.51
							6159484.94	2295676.57	613.51
							6159470.14	2295671.86	613.51
							6159445.57	2295657.25	613.51
							6159421.96	2295629.50	613.51
							6159399.31	2295588.82	613.51
							6159406.20	2296058.64	613.51
							6160564.67	2296059.62	613.51
							6160560.73	2295607.82	613.51
							6160536.12	2295617.80	613.51
							6160514.47	2295618.70	613.51
							6160471.79	2295632.81	613.51
							6160439.67	2295630.12	613.51
							6160428.81	2295623.63	613.51
							6160407.78	2295599.98	613.51
							6160404.96	2295583.49	613.51
							6160390.75	2295557.65	613.51
							6160387.10	2295541.90	613.51
							6160393.71	2295531.08	613.51
							6160386.94	2295519.27	613.51
							6160397.34	2295494.80	613.51
							6160388.48	2295481.10	613.51
							6160387.50	2295483.67	613.51
							6160379.66	2295466.12	613.51
							6160382.80	2295443.48	613.51
							6160371.30	2295432.65	613.51
							6160371.29	2295413.95	613.51
							6160363.23	2295400.82	613.51
							6160353.05	2295400.02	613.51
							6160338.30	2295386.38	613.51
							6160328.51	2295385.34	613.51
CONTOURS_EX			CONTOURS_EX00073		613.51		6160341.37	2295372.48	613.51
							6160337.29	2295375.57	613.51
							6160341.24	2295377.20	613.51
							6160341.37	2295372.48	613.51
CONTOURS_EX			CONTOURS_EX00074		613.51		6160558.76	2295348.01	613.51
							6160548.52	2295351.54	613.51
							6160541.04	2295359.05	613.51
							6160524.31	2295361.47	613.51
							6160512.50	2295359.42	613.51
							6160508.11	2295362.31	613.51
							6160508.75	2295416.90	613.51
							6160491.83	2295423.30	613.51
							6160481.00	2295422.32	613.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160479.77	2295425.76	613.51
							6160475.90	2295447.42	613.51
							6160486.20	2295508.72	613.51
							6160483.10	2295518.28	613.51
							6160475.87	2295525.94	613.51
							6160475.71	2295536.00	613.51
							6160479.60	2295551.18	613.51
							6160490.85	2295561.26	613.51
							6160524.31	2295556.80	613.51
							6160542.03	2295565.24	613.51
							6160560.73	2295568.19	613.51
							6160558.76	2295348.01	613.51
CONTOURS_EX			CONTOURS_EX00075		613.51		6160317.79	2295344.88	613.51
							6160312.70	2295349.28	613.51
							6160317.62	2295350.56	613.51
							6160322.30	2295347.02	613.51
							6160317.79	2295344.88	613.51
CONTOURS_EX			CONTOURS_EX00076		613.51		6160369.81	2295279.08	613.51
							6160369.81	2295279.08	613.51
CONTOURS_EX			CONTOURS_EX00077		613.51		6160324.98	2295277.66	613.51
							6160311.87	2295283.20	613.51
							6160312.20	2295296.83	613.51
							6160318.34	2295305.94	613.51
							6160321.28	2295330.56	613.51
							6160335.33	2295338.33	613.51
							6160356.02	2295323.40	613.51
							6160324.98	2295277.66	613.51
CONTOURS_EX			CONTOURS_EX00078		613.51		6160327.51	2295211.14	613.51
							6160320.57	2295221.39	613.51
							6160316.29	2295243.34	613.51
							6160318.37	2295267.53	613.51
							6160324.51	2295276.80	613.51
							6160329.43	2295271.65	613.51
							6160338.29	2295270.85	613.51
							6160344.19	2295265.99	613.51
							6160346.75	2295275.57	613.51
							6160355.99	2295274.18	613.51
							6160369.27	2295278.60	613.51
							6160367.13	2295271.23	613.51
							6160373.98	2295268.28	613.51
							6160370.03	2295256.47	613.51
							6160370.17	2295233.44	613.51
							6160327.51	2295211.14	613.51
CONTOURS_EX			CONTOURS_EX00079		613.51		6160530.22	2295201.18	613.51
							6160530.15	2295205.29	613.51
							6160525.71	2295204.31	613.51
							6160530.22	2295201.18	613.51
CONTOURS_EX			CONTOURS_EX00080		613.51		6160556.79	2295160.01	613.51
							6160540.06	2295162.46	613.51
							6160514.51	2295184.62	613.51
							6160515.45	2295192.89	613.51
							6160503.64	2295193.70	613.51
							6160493.80	2295187.11	613.51
							6160481.45	2295190.53	613.51
							6160472.91	2295209.23	613.51
							6160486.91	2295205.99	613.51
							6160506.85	2295209.96	613.51
							6160506.86	2295230.88	613.51
							6160515.54	2295261.30	613.51
							6160540.63	2295262.79	613.51
							6160551.05	2295270.08	613.51
							6160557.78	2295270.82	613.51
							6160556.79	2295160.01	613.51
CONTOURS_EX			CONTOURS_EX00081		613.51		6160554.17	2295050.43	613.51
							6160547.93	2295051.33	613.51
							6160542.69	2295064.54	613.51
							6160542.75	2295076.35	613.51
							6160537.90	2295084.23	613.51
							6160538.89	2295101.15	613.51
							6160546.95	2295103.84	613.51
							6160556.79	2295104.02	613.51
							6160554.17	2295050.43	613.51
CONTOURS_EX			CONTOURS_EX00082		614.51		6160353.05	2296040.10	614.51
							6160353.70	2296042.55	614.51
							6160349.61	2296041.90	614.51
							6160353.05	2296040.10	614.51
CONTOURS_EX			CONTOURS_EX00083		614.51		6159846.20	2295809.58	614.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159837.30	2295809.10	614.51
							6159833.67	2295814.54	614.51
							6159839.65	2295817.87	614.51
							6159846.55	2295813.56	614.51
							6159846.20	2295809.58	614.51
CONTOURS_EX			CONTOURS_EX00084		614.51		6159409.15	2295742.09	614.51
							6159413.13	2295745.64	614.51
							6159408.17	2295749.80	614.51
							6159409.15	2295742.09	614.51
CONTOURS_EX			CONTOURS_EX00085		614.51		6159581.40	2295699.38	614.51
							6159595.50	2295709.23	614.51
							6159599.32	2295723.01	614.51
							6159603.09	2295725.96	614.51
							6159603.46	2295734.24	614.51
							6159597.15	2295737.98	614.51
							6159582.38	2295738.77	614.51
							6159568.65	2295750.62	614.51
							6159558.76	2295749.56	614.51
							6159551.18	2295736.10	614.51
							6159567.63	2295724.01	614.51
							6159574.58	2295701.42	614.51
							6159581.40	2295699.38	614.51
CONTOURS_EX			CONTOURS_EX00086		614.51		6159523.44	2295477.81	614.51
							6159517.83	2295478.34	614.51
							6159509.09	2295491.71	614.51
							6159515.18	2295531.08	614.51
							6159502.79	2295547.81	614.51
							6159514.47	2295567.01	614.51
							6159520.37	2295554.21	614.51
							6159522.67	2295554.70	614.51
							6159525.03	2295543.61	614.51
							6159544.00	2295547.47	614.51
							6159552.85	2295560.02	614.51
							6159567.39	2295568.48	614.51
							6159570.45	2295589.15	614.51
							6159563.33	2295592.74	614.51
							6159550.74	2295608.69	614.51
							6159545.23	2295631.47	614.51
							6159533.11	2295651.10	614.51
							6159524.01	2295658.05	614.51
							6159519.39	2295666.19	614.51
							6159516.61	2295675.76	614.51
							6159517.99	2295687.16	614.51
							6159506.59	2295694.49	614.51
							6159466.24	2295690.65	614.51
							6159461.18	2295693.34	614.51
							6159462.30	2295704.44	614.51
							6159446.65	2295672.81	614.51
							6159420.96	2295643.05	614.51
							6159410.14	2295645.54	614.51
							6159400.30	2295660.26	614.51
							6159401.28	2295731.27	614.51
							6159403.70	2295735.80	614.51
							6159401.28	2295735.19	614.51
							6159401.28	2295765.33	614.51
							6159406.20	2296058.64	614.51
							6160564.67	2296059.62	614.51
							6160560.73	2295624.04	614.51
							6160533.17	2295631.00	614.51
							6160490.08	2295634.64	614.51
							6160481.99	2295642.03	614.51
							6160464.27	2295639.84	614.51
							6160442.62	2295647.68	614.51
							6160429.82	2295645.27	614.51
							6160405.83	2295619.66	614.51
							6160400.30	2295609.47	614.51
							6160392.42	2295603.21	614.51
							6160384.07	2295602.93	614.51
							6160377.66	2295580.33	614.51
							6160371.54	2295574.38	614.51
							6160370.77	2295562.84	614.51
							6160360.50	2295544.30	614.51
							6160342.22	2295541.93	614.51
							6160326.48	2295533.48	614.51
							6160318.06	2295566.51	614.51
							6160317.79	2295662.97	614.51
							6160321.13	2295689.54	614.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160315.47	2295723.99	614.51
							6160325.56	2295774.12	614.51
							6160318.16	2295787.97	614.51
							6160292.03	2295793.66	614.51
							6160269.39	2295792.98	614.51
							6160252.66	2295796.53	614.51
							6160198.52	2295799.35	614.51
							6160169.98	2295795.72	614.51
							6160071.56	2295801.34	614.51
							6160023.33	2295799.38	614.51
							6159977.07	2295805.32	614.51
							6159965.26	2295802.58	614.51
							6159928.84	2295802.67	614.51
							6159916.80	2295806.67	614.51
							6159915.52	2295811.59	614.51
							6159964.26	2295836.20	614.51
							6159961.97	2295844.07	614.51
							6159964.30	2295849.98	614.51
							6159974.01	2295854.90	614.51
							6159926.87	2295860.79	614.51
							6159910.14	2295853.20	614.51
							6159878.64	2295862.97	614.51
							6159853.05	2295856.80	614.51
							6159800.89	2295856.89	614.51
							6159796.70	2295854.90	614.51
							6159794.00	2295848.37	614.51
							6159791.45	2295850.96	614.51
							6159793.17	2295854.07	614.51
							6159774.31	2295855.04	614.51
							6159767.40	2295845.07	614.51
							6159754.63	2295840.58	614.51
							6159752.36	2295835.21	614.51
							6159757.58	2295826.23	614.51
							6159777.26	2295826.72	614.51
							6159784.15	2295822.47	614.51
							6159791.42	2295813.94	614.51
							6159790.19	2295804.70	614.51
							6159779.23	2295802.04	614.51
							6159731.99	2295802.19	614.51
							6159728.05	2295794.98	614.51
							6159717.22	2295796.06	614.51
							6159698.60	2295784.93	614.51
							6159674.66	2295758.68	614.51
							6159662.11	2295752.00	614.51
							6159646.36	2295759.29	614.51
							6159639.29	2295765.33	614.51
							6159633.66	2295777.24	614.51
							6159620.77	2295786.51	614.51
							6159605.02	2295785.30	614.51
							6159596.06	2295780.09	614.51
							6159596.36	2295765.33	614.51
							6159608.36	2295752.92	614.51
							6159614.40	2295736.79	614.51
							6159607.42	2295678.72	614.51
							6159599.17	2295657.00	614.51
							6159600.75	2295615.72	614.51
							6159593.00	2295590.13	614.51
							6159592.56	2295576.35	614.51
							6159599.07	2295543.87	614.51
							6159597.22	2295506.47	614.51
							6159592.22	2295501.41	614.51
							6159572.66	2295494.53	614.51
							6159538.09	2295493.77	614.51
							6159530.10	2295480.88	614.51
							6159523.44	2295477.81	614.51
CONTOURS_EX			CONTOURS_EX00087		614.51		6160557.85	2295360.72	614.51
							6160551.87	2295361.08	614.51
							6160543.48	2295368.68	614.51
							6160537.56	2295379.96	614.51
							6160536.50	2295396.84	614.51
							6160545.45	2295403.12	614.51
							6160543.91	2295412.97	614.51
							6160549.00	2295425.68	614.51
							6160547.69	2295429.46	614.51
							6160535.14	2295440.20	614.51
							6160517.71	2295445.74	614.51
							6160486.48	2295447.42	614.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160486.17	2295462.18	614.51
							6160493.35	2295474.98	614.51
							6160503.19	2295520.25	614.51
							6160489.93	2295540.92	614.51
							6160493.80	2295542.56	614.51
							6160512.50	2295535.85	614.51
							6160530.22	2295534.92	614.51
							6160544.00	2295548.10	614.51
							6160560.73	2295553.24	614.51
							6160557.85	2295360.72	614.51
CONTOURS_EX			CONTOURS_EX00088		614.51		6160337.74	2295249.15	614.51
							6160329.40	2295250.54	614.51
							6160330.63	2295254.50	614.51
							6160340.26	2295255.49	614.51
							6160342.07	2295253.52	614.51
							6160337.74	2295249.15	614.51
CONTOURS_EX			CONTOURS_EX00089		614.51		6160557.78	2295211.19	614.51
							6160544.98	2295215.23	614.51
							6160541.61	2295222.02	614.51
							6160542.28	2295229.90	614.51
							6160548.92	2295241.13	614.51
							6160557.78	2295228.66	614.51
							6160557.78	2295211.19	614.51
CONTOURS_EX			CONTOURS_EX00090		614.51		6160556.79	2295187.57	614.51
							6160548.92	2295187.10	614.51
							6160536.11	2295193.48	614.51
							6160539.08	2295197.08	614.51
							6160546.95	2295196.78	614.51
							6160556.79	2295192.54	614.51
							6160556.79	2295187.57	614.51
CONTOURS_EX			CONTOURS_EX00091		615.51		6160223.13	2296031.64	615.51
							6160223.71	2296036.00	615.51
							6160219.29	2296035.90	615.51
							6160218.71	2296032.06	615.51
							6160223.13	2296031.64	615.51
CONTOURS_EX			CONTOURS_EX00092		615.51		6160393.45	2296023.16	615.51
							6160386.15	2296026.16	615.51
							6160385.41	2296034.03	615.51
							6160389.71	2296044.62	615.51
							6160401.58	2296054.70	615.51
							6160400.55	2296059.62	615.51
							6160429.44	2296059.62	615.51
							6160418.42	2296038.95	615.51
							6160393.45	2296023.16	615.51
CONTOURS_EX			CONTOURS_EX00093		615.51		6160220.18	2296000.35	615.51
							6160223.79	2296004.50	615.51
							6160217.22	2296007.62	615.51
							6160212.44	2296004.50	615.51
							6160215.24	2296000.57	615.51
							6160220.18	2296000.35	615.51
CONTOURS_EX			CONTOURS_EX00094		615.51		6160257.58	2295997.27	615.51
							6160265.65	2296000.57	615.51
							6160262.50	2296007.62	615.51
							6160233.05	2296003.52	615.51
							6160257.58	2295997.27	615.51
CONTOURS_EX			CONTOURS_EX00095		615.51		6159578.61	2295763.19	615.51
							6159578.61	2295763.19	615.51
CONTOURS_EX			CONTOURS_EX00096		615.51		6159559.85	2295713.06	615.51
							6159559.85	2295713.06	615.51
CONTOURS_EX			CONTOURS_EX00097		615.51		6160550.89	2295694.31	615.51
							6160553.10	2295698.64	615.51
							6160543.81	2295697.42	615.51
							6160550.89	2295694.31	615.51
CONTOURS_EX			CONTOURS_EX00098		615.51		6159596.21	2295687.52	615.51
							6159592.25	2295692.49	615.51
							6159599.66	2295698.40	615.51
							6159601.08	2295692.65	615.51
							6159596.21	2295687.52	615.51
CONTOURS_EX			CONTOURS_EX00099		615.51		6160518.41	2295678.66	615.51
							6160522.15	2295681.67	615.51
							6160517.18	2295685.85	615.51
							6160512.61	2295682.65	615.51
							6160518.41	2295678.66	615.51
CONTOURS_EX			CONTOURS_EX00100		615.51		6159546.01	2295666.86	615.51
							6159540.14	2295673.87	615.51
							6159538.79	2295689.54	615.51
							6159548.05	2295702.22	615.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159555.81	2295703.50	615.51
							6159560.09	2295700.71	615.51
							6159562.46	2295692.49	615.51
							6159570.88	2295687.57	615.51
							6159573.99	2295677.27	615.51
							6159553.84	2295674.29	615.51
							6159546.01	2295666.86	615.51
CONTOURS_EX			CONTOURS_EX00101		615.51		6160444.64	2295664.88	615.51
							6160427.70	2295666.75	615.51
							6160432.99	2295680.47	615.51
							6160453.45	2295683.49	615.51
							6160451.53	2295666.90	615.51
							6160444.64	2295664.88	615.51
CONTOURS_EX			CONTOURS_EX00102		615.51		6160555.89	2295642.22	615.51
							6160553.49	2295642.30	615.51
							6160547.93	2295666.86	615.51
							6160529.23	2295666.61	615.51
							6160518.47	2295646.17	615.51
							6160500.69	2295648.23	615.51
							6160493.65	2295653.96	615.51
							6160498.64	2295681.67	615.51
							6160461.13	2295685.42	615.51
							6160465.91	2295696.76	615.51
							6160500.69	2295696.57	615.51
							6160510.14	2295704.31	615.51
							6160500.69	2295712.77	615.51
							6160494.41	2295713.54	615.51
							6160460.33	2295699.23	615.51
							6160454.43	2295710.11	615.51
							6160443.60	2295710.73	615.51
							6160434.43	2295716.43	615.51
							6160410.14	2295701.46	615.51
							6160385.55	2295698.40	615.51
							6160368.80	2295686.59	615.51
							6160345.18	2295689.97	615.51
							6160331.76	2295687.93	615.51
							6160321.30	2295709.23	615.51
							6160324.44	2295739.80	615.51
							6160338.00	2295751.83	615.51
							6160348.84	2295755.49	615.51
							6160353.50	2295759.96	615.51
							6160355.11	2295767.30	615.51
							6160323.52	2295794.20	615.51
							6160195.57	2295804.29	615.51
							6160170.96	2295800.34	615.51
							6160061.71	2295809.42	615.51
							6160039.97	2295806.67	615.51
							6160035.18	2295813.56	615.51
							6160051.87	2295816.53	615.51
							6160063.68	2295828.30	615.51
							6160079.62	2295836.99	615.51
							6160090.41	2295836.20	615.51
							6160090.85	2295851.34	615.51
							6160100.10	2295842.97	615.51
							6160108.96	2295845.71	615.51
							6160114.14	2295850.96	615.51
							6160100.10	2295857.06	615.51
							6160091.97	2295852.20	615.51
							6160078.45	2295855.96	615.51
							6160069.59	2295851.64	615.51
							6160059.81	2295857.78	615.51
							6159935.73	2295866.56	615.51
							6159919.98	2295865.70	615.51
							6159911.12	2295859.67	615.51
							6159879.41	2295866.49	615.51
							6159852.07	2295861.46	615.51
							6159811.71	2295860.75	615.51
							6159798.92	2295864.46	615.51
							6159768.33	2295860.73	615.51
							6159751.67	2295869.68	615.51
							6159710.33	2295863.12	615.51
							6159702.73	2295858.83	615.51
							6159678.97	2295822.42	615.51
							6159693.05	2295807.65	615.51
							6159690.60	2295795.84	615.51
							6159674.90	2295781.20	615.51
							6159669.01	2295782.07	615.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159665.63	2295788.95	615.51
							6159659.97	2295820.45	615.51
							6159637.50	2295838.35	615.51
							6159619.94	2295858.00	615.51
							6159609.94	2295857.63	615.51
							6159586.70	2295844.67	615.51
							6159561.63	2295837.18	615.51
							6159553.46	2295832.26	615.51
							6159546.59	2295822.42	615.51
							6159565.65	2295811.47	615.51
							6159572.12	2295803.72	615.51
							6159567.57	2295795.89	615.51
							6159546.95	2295788.31	615.51
							6159540.00	2295783.11	615.51
							6159539.36	2295779.11	615.51
							6159545.96	2295774.17	615.51
							6159567.00	2295770.62	615.51
							6159577.93	2295763.88	615.51
							6159570.57	2295766.43	615.51
							6159561.71	2295757.10	615.51
							6159533.49	2295741.71	615.51
							6159533.17	2295730.37	615.51
							6159523.33	2295733.38	615.51
							6159505.30	2295719.37	615.51
							6159494.78	2295718.59	615.51
							6159475.10	2295711.09	615.51
							6159459.91	2295726.94	615.51
							6159456.97	2295744.66	615.51
							6159453.60	2295748.60	615.51
							6159407.19	2295752.52	615.51
							6159401.28	2295748.70	615.51
							6159406.20	2296058.64	615.51
							6160376.58	2296059.62	615.51
							6160355.02	2296050.65	615.51
							6160332.02	2296053.09	615.51
							6160296.95	2296049.38	615.51
							6160289.08	2296046.02	615.51
							6160264.42	2296045.89	615.51
							6160245.77	2296036.06	615.51
							6160229.75	2296036.98	615.51
							6160232.24	2296030.34	615.51
							6160236.91	2296027.89	615.51
							6160292.26	2296023.44	615.51
							6160294.45	2296020.25	615.51
							6160273.39	2296003.52	615.51
							6160276.25	2295997.59	615.51
							6160286.98	2295993.81	615.51
							6160307.78	2295995.25	615.51
							6160349.97	2295985.67	615.51
							6160377.66	2295983.63	615.51
							6160419.98	2295995.27	615.51
							6160431.79	2295983.51	615.51
							6160438.00	2295991.71	615.51
							6160434.04	2296000.57	615.51
							6160435.37	2296009.42	615.51
							6160445.64	2296035.01	615.51
							6160442.44	2296059.62	615.51
							6160564.67	2296059.62	615.51
							6160561.71	2295644.27	615.51
							6160555.89	2295642.22	615.51
CONTOURS_EX			CONTOURS_EX00103		615.51		6160325.53	2295633.40	615.51
							6160322.54	2295634.08	615.51
							6160320.44	2295650.17	615.51
							6160325.80	2295656.08	615.51
							6160321.28	2295663.95	615.51
							6160330.41	2295679.65	615.51
							6160336.57	2295649.19	615.51
							6160334.05	2295638.66	615.51
							6160325.53	2295633.40	615.51
CONTOURS_EX			CONTOURS_EX00104		615.51		6159589.48	2295614.53	615.51
							6159582.45	2295615.79	615.51
							6159586.32	2295625.72	615.51
							6159593.71	2295621.14	615.51
							6159589.48	2295614.53	615.51
CONTOURS_EX			CONTOURS_EX00105		615.51		6159577.70	2295499.34	615.51
							6159567.20	2295500.57	615.51
							6159563.36	2295512.70	615.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159579.43	2295514.53	615.51
							6159587.21	2295511.39	615.51
							6159586.88	2295506.47	615.51
							6159577.70	2295499.34	615.51
CONTOURS_EX			CONTOURS_EX00106		615.51		6160526.38	2295462.07	615.51
							6160524.06	2295462.18	615.51
							6160526.38	2295462.07	615.51
CONTOURS_EX			CONTOURS_EX00107		615.51		6160500.98	2295458.93	615.51
							6160496.21	2295463.16	615.51
							6160500.69	2295469.09	615.51
							6160507.37	2295468.86	615.51
							6160500.98	2295458.93	615.51
CONTOURS_EX			CONTOURS_EX00108		615.51		6160556.81	2295445.43	615.51
							6160548.92	2295447.12	615.51
							6160532.36	2295462.18	615.51
							6160540.22	2295474.98	615.51
							6160541.79	2295482.85	615.51
							6160537.92	2295489.74	615.51
							6160542.03	2295503.67	615.51
							6160559.74	2295518.34	615.51
							6160559.74	2295445.90	615.51
							6160556.81	2295445.43	615.51
CONTOURS_EX			CONTOURS_EX00109		616.51		6160355.13	2296057.54	616.51
							6160342.05	2296059.62	616.51
							6160359.79	2296059.62	616.51
							6160355.13	2296057.54	616.51
CONTOURS_EX			CONTOURS_EX00110		616.51		6160207.48	2296043.78	616.51
							6160189.67	2296044.32	616.51
							6160160.02	2296059.62	616.51
							6160314.04	2296059.62	616.51
							6160270.37	2296050.52	616.51
							6160255.61	2296053.29	616.51
							6160227.07	2296050.65	616.51
							6160207.48	2296043.78	616.51
CONTOURS_EX			CONTOURS_EX00111		616.51		6160170.97	2296013.35	616.51
							6160166.03	2296014.33	616.51
							6160162.33	2296020.03	616.51
							6160169.00	2296022.25	616.51
							6160174.61	2296020.25	616.51
							6160170.97	2296013.35	616.51
CONTOURS_EX			CONTOURS_EX00112		616.51		6160419.98	2295848.74	616.51
							6160416.96	2295850.96	616.51
							6160419.98	2295848.74	616.51
CONTOURS_EX			CONTOURS_EX00113		616.51		6160562.70	2295804.70	616.51
							6160560.48	2295806.67	616.51
							6160562.70	2295807.42	616.51
							6160562.70	2295804.70	616.51
CONTOURS_EX			CONTOURS_EX00114		616.51		6159535.27	2295761.26	616.51
							6159528.24	2295762.38	616.51
							6159534.15	2295763.81	616.51
							6159535.27	2295761.26	616.51
CONTOURS_EX			CONTOURS_EX00115		616.51		6159507.96	2295760.02	616.51
							6159502.14	2295761.39	616.51
							6159498.72	2295767.41	616.51
							6159510.05	2295766.31	616.51
							6159507.96	2295760.02	616.51
CONTOURS_EX			CONTOURS_EX00116		616.51		6159465.27	2295753.50	616.51
							6159452.46	2295756.46	616.51
							6159430.81	2295754.77	616.51
							6159413.09	2295757.16	616.51
							6159401.28	2295754.43	616.51
							6159406.20	2296058.64	616.51
							6160114.12	2296059.62	616.51
							6160111.15	2296051.52	616.51
							6160094.19	2296043.35	616.51
							6160093.39	2296037.17	616.51
							6160095.51	2296034.36	616.51
							6160116.83	2296030.79	616.51
							6160126.07	2296021.23	616.51
							6160107.97	2296008.67	616.51
							6160094.19	2296010.09	616.51
							6160086.58	2296007.20	616.51
							6160087.33	2296003.55	616.51
							6160114.86	2295997.45	616.51
							6160170.96	2295993.68	616.51
							6160221.98	2295981.05	616.51
							6160239.86	2295985.13	616.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160249.71	2295981.73	616.51
							6160293.01	2295980.94	616.51
							6160320.60	2295968.11	616.51
							6160368.80	2295966.83	616.51
							6160379.63	2295961.09	616.51
							6160385.53	2295963.30	616.51
							6160398.96	2295978.27	616.51
							6160418.01	2295980.46	616.51
							6160432.78	2295971.28	616.51
							6160445.21	2295993.68	616.51
							6160444.84	2295999.58	616.51
							6160458.69	2296028.78	616.51
							6160457.71	2296059.62	616.51
							6160564.67	2296059.62	616.51
							6160562.70	2295854.17	616.51
							6160547.93	2295854.77	616.51
							6160532.30	2295850.09	616.51
							6160512.50	2295853.01	616.51
							6160504.15	2295848.99	616.51
							6160502.66	2295844.38	616.51
							6160495.77	2295842.64	616.51
							6160492.68	2295848.01	616.51
							6160481.98	2295851.94	616.51
							6160463.95	2295847.68	616.51
							6160455.09	2295851.29	616.51
							6160447.07	2295847.02	616.51
							6160480.02	2295832.88	616.51
							6160522.34	2295828.05	616.51
							6160551.69	2295806.67	616.51
							6160547.71	2295796.06	616.51
							6160540.06	2295793.44	616.51
							6160487.89	2295787.29	616.51
							6160452.68	2295789.17	616.51
							6160389.39	2295784.11	616.51
							6160361.91	2295786.05	616.51
							6160333.31	2295798.79	616.51
							6160275.30	2295802.03	616.51
							6160255.61	2295806.55	616.51
							6160219.19	2295804.32	616.51
							6160200.49	2295812.92	616.51
							6160174.90	2295808.02	616.51
							6160148.33	2295808.16	616.51
							6160139.27	2295810.60	616.51
							6160135.68	2295813.71	616.51
							6160136.05	2295817.96	616.51
							6160146.36	2295823.12	616.51
							6160165.06	2295819.02	616.51
							6160176.87	2295821.67	616.51
							6160209.09	2295834.49	616.51
							6160215.06	2295839.35	616.51
							6160215.08	2295848.01	616.51
							6160223.13	2295846.37	616.51
							6160225.81	2295849.98	616.51
							6160220.18	2295852.99	616.51
							6160204.11	2295851.63	616.51
							6160163.09	2295859.60	616.51
							6160146.18	2295857.67	616.51
							6160127.66	2295864.04	616.51
							6160070.57	2295863.87	616.51
							6159988.88	2295869.57	616.51
							6159919.98	2295870.53	616.51
							6159912.11	2295866.14	616.51
							6159866.83	2295870.03	616.51
							6159853.05	2295865.55	616.51
							6159810.73	2295864.64	616.51
							6159778.25	2295868.08	616.51
							6159771.36	2295865.66	616.51
							6159755.61	2295875.79	616.51
							6159740.68	2295875.40	616.51
							6159718.21	2295881.27	616.51
							6159705.41	2295889.34	616.51
							6159697.48	2295900.11	616.51
							6159687.45	2295899.43	616.51
							6159673.56	2295876.91	616.51
							6159658.17	2295874.76	616.51
							6159630.61	2295904.97	616.51
							6159624.51	2295899.19	616.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159615.07	2295875.36	616.51
							6159584.35	2295849.87	616.51
							6159548.29	2295836.82	616.51
							6159520.37	2295837.19	616.51
							6159514.71	2295845.05	616.51
							6159509.57	2295845.07	616.51
							6159476.85	2295833.24	616.51
							6159482.06	2295820.45	616.51
							6159498.89	2295806.83	616.51
							6159507.45	2295789.94	616.51
							6159504.63	2295786.49	616.51
							6159484.64	2295780.09	616.51
							6159487.00	2295766.31	616.51
							6159465.27	2295753.50	616.51
CONTOURS_EX			CONTOURS_EX00117		616.51		6159475.42	2295726.62	616.51
							6159468.21	2295726.56	616.51
							6159467.05	2295729.90	616.51
							6159470.19	2295745.63	616.51
							6159477.07	2295746.38	616.51
							6159480.21	2295744.66	616.51
							6159480.15	2295734.95	616.51
							6159483.58	2295731.86	616.51
							6159475.42	2295726.62	616.51
CONTOURS_EX			CONTOURS_EX00118		616.51		6160553.01	2295721.87	616.51
							6160542.10	2295725.96	616.51
							6160556.79	2295727.45	616.51
							6160561.71	2295731.15	616.51
							6160561.71	2295722.53	616.51
							6160553.01	2295721.87	616.51
CONTOURS_EX			CONTOURS_EX00119		616.51		6160368.82	2295715.11	616.51
							6160358.95	2295719.07	616.51
							6160347.15	2295716.19	616.51
							6160331.40	2295719.55	616.51
							6160327.91	2295725.96	616.51
							6160329.49	2295733.83	616.51
							6160340.26	2295740.56	616.51
							6160386.52	2295750.39	616.51
							6160425.89	2295739.28	616.51
							6160451.48	2295742.05	616.51
							6160479.37	2295739.09	616.51
							6160498.72	2295733.06	616.51
							6160516.44	2295734.00	616.51
							6160523.79	2295731.35	616.51
							6160527.63	2295725.96	616.51
							6160509.61	2295719.01	616.51
							6160499.54	2295724.98	616.51
							6160497.74	2295729.46	616.51
							6160491.66	2295725.15	616.51
							6160451.48	2295719.37	616.51
							6160427.85	2295726.20	616.51
							6160406.20	2295716.28	616.51
							6160379.63	2295723.87	616.51
							6160368.82	2295715.11	616.51
CONTOURS_EX			CONTOURS_EX00120		616.51		6160561.71	2295669.86	616.51
							6160561.71	2295679.26	616.51
							6160561.71	2295669.86	616.51
CONTOURS_EX			CONTOURS_EX00121		616.51		6159576.50	2295502.51	616.51
							6159574.51	2295504.09	616.51
							6159576.50	2295502.51	616.51
CONTOURS_EX			CONTOURS_EX00122		617.51		6160273.39	2296055.62	617.51
							6160261.40	2296059.62	617.51
							6160294.58	2296059.62	617.51
							6160273.39	2296055.62	617.51
CONTOURS_EX			CONTOURS_EX00123		617.51		6160205.56	2296049.64	617.51
							6160189.37	2296051.45	617.51
							6160181.74	2296059.62	617.51
							6160218.34	2296059.62	617.51
							6160215.34	2296054.70	617.51
							6160205.56	2296049.64	617.51
CONTOURS_EX			CONTOURS_EX00124		617.51		6160016.60	2296021.08	617.51
							6160014.57	2296023.20	617.51
							6160017.42	2296024.48	617.51
							6160016.60	2296021.08	617.51
CONTOURS_EX			CONTOURS_EX00125		617.51		6160463.29	2295950.21	617.51
							6160491.83	2295959.07	617.51
							6160498.72	2295952.88	617.51
							6160505.25	2295956.27	617.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160501.28	2295967.10	617.51
							6160492.42	2295976.94	617.51
							6160485.93	2295981.63	617.51
							6160477.89	2295981.04	617.51
							6160460.46	2295950.37	617.51
							6160463.29	2295950.21	617.51
CONTOURS_EX			CONTOURS_EX00126		617.51		6160503.64	2295902.94	617.51
							6160520.37	2295910.00	617.51
							6160523.57	2295916.90	617.51
							6160518.91	2295939.54	617.51
							6160513.48	2295946.60	617.51
							6160505.49	2295943.60	617.51
							6160494.78	2295926.20	617.51
							6160487.89	2295926.67	617.51
							6160481.57	2295921.83	617.51
							6160481.13	2295914.08	617.51
							6160497.74	2295912.75	617.51
							6160503.64	2295902.94	617.51
CONTOURS_EX			CONTOURS_EX00127		617.51		6160499.89	2295853.73	617.51
							6160464.27	2295856.68	617.51
							6160455.41	2295862.03	617.51
							6160427.85	2295854.21	617.51
							6160401.28	2295861.16	617.51
							6160363.88	2295862.28	617.51
							6160359.87	2295864.74	617.51
							6160360.93	2295870.59	617.51
							6160388.26	2295893.28	617.51
							6160389.05	2295907.06	617.51
							6160392.97	2295910.45	617.51
							6160401.11	2295932.65	617.51
							6160394.11	2295944.46	617.51
							6160400.58	2295957.26	617.51
							6160409.53	2295952.34	617.51
							6160411.27	2295927.88	617.51
							6160415.06	2295923.60	617.51
							6160442.45	2295918.70	617.51
							6160452.06	2295904.69	617.51
							6160457.67	2295905.09	617.51
							6160460.56	2295912.97	617.51
							6160446.95	2295922.81	617.51
							6160441.63	2295936.59	617.51
							6160442.62	2295945.00	617.51
							6160475.51	2295983.42	617.51
							6160472.15	2295995.64	617.51
							6160461.34	2296002.53	617.51
							6160461.97	2296009.42	617.51
							6160467.56	2296015.97	617.51
							6160476.08	2296018.72	617.51
							6160484.09	2296017.16	617.51
							6160497.69	2296023.20	617.51
							6160473.48	2296042.26	617.51
							6160467.39	2296059.62	617.51
							6160557.15	2296059.62	617.51
							6160553.25	2296044.86	617.51
							6160557.96	2296027.14	617.51
							6160552.46	2295989.15	617.51
							6160553.83	2295973.99	617.51
							6160547.96	2295898.20	617.51
							6160549.90	2295894.12	617.51
							6160563.68	2295890.44	617.51
							6160563.68	2295866.55	617.51
							6160558.50	2295861.06	617.51
							6160537.11	2295856.16	617.51
							6160511.52	2295859.02	617.51
							6160499.89	2295853.73	617.51
CONTOURS_EX			CONTOURS_EX00128		617.51		6160325.69	2295806.47	617.51
							6160305.97	2295807.81	617.51
							6160304.82	2295812.33	617.51
							6160298.12	2295808.45	617.51
							6160279.23	2295807.41	617.51
							6160273.56	2295812.57	617.51
							6160280.22	2295817.93	617.51
							6160306.79	2295816.41	617.51
							6160325.49	2295821.40	617.51
							6160336.43	2295817.49	617.51
							6160340.48	2295811.59	617.51
							6160331.40	2295811.55	617.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160325.69	2295806.47	617.51
CONTOURS_EX			CONTOURS_EX00129		617.51		6160438.92	2295804.46	617.51
							6160433.63	2295808.77	617.51
							6160438.04	2295809.62	617.51
							6160438.92	2295804.46	617.51
CONTOURS_EX			CONTOURS_EX00130		617.51		6159433.90	2295761.25	617.51
							6159401.28	2295760.60	617.51
							6159406.20	2296058.64	617.51
							6160099.76	2296059.62	617.51
							6160078.45	2296046.42	617.51
							6160063.68	2296053.12	617.51
							6159989.86	2296048.39	617.51
							6159963.21	2296050.84	617.51
							6159956.49	2296047.81	617.51
							6159959.35	2296041.55	617.51
							6159991.88	2296030.14	617.51
							6159999.30	2296023.20	617.51
							6159983.96	2296010.92	617.51
							6159966.24	2296022.70	617.51
							6159951.99	2296015.33	617.51
							6159969.19	2296003.32	617.51
							6159983.96	2296002.66	617.51
							6160026.28	2295992.08	617.51
							6160035.14	2295991.62	617.51
							6160041.99	2295998.63	617.51
							6160048.92	2295999.03	617.51
							6160057.78	2295990.92	617.51
							6160080.41	2295989.50	617.51
							6160126.67	2295977.12	617.51
							6160140.81	2295979.27	617.51
							6160177.85	2295970.76	617.51
							6160190.65	2295974.78	617.51
							6160195.57	2295965.81	617.51
							6160215.46	2295961.40	617.51
							6160236.91	2295951.86	617.51
							6160259.55	2295953.21	617.51
							6160305.81	2295946.31	617.51
							6160318.60	2295951.07	617.51
							6160332.79	2295938.56	617.51
							6160324.70	2295926.75	617.51
							6160317.05	2295921.83	617.51
							6160321.55	2295906.08	617.51
							6160316.57	2295894.27	617.51
							6160324.51	2295892.90	617.51
							6160334.87	2295877.07	617.51
							6160345.50	2295875.89	617.51
							6160350.04	2295863.75	617.51
							6160346.62	2295860.34	617.51
							6160336.32	2295858.83	617.51
							6160317.62	2295863.10	617.51
							6160287.11	2295858.91	617.51
							6160271.76	2295865.72	617.51
							6160269.64	2295887.38	617.51
							6160280.22	2295891.86	617.51
							6160295.96	2295885.37	617.51
							6160299.90	2295880.75	617.51
							6160304.80	2295895.25	617.51
							6160299.37	2295914.40	617.51
							6160279.08	2295919.03	617.51
							6160271.87	2295918.36	617.51
							6160270.28	2295913.95	617.51
							6160256.33	2295910.28	617.51
							6160251.36	2295905.09	617.51
							6160249.60	2295896.23	617.51
							6160255.90	2295886.39	617.51
							6160249.44	2295865.98	617.51
							6160236.91	2295859.01	617.51
							6160228.03	2295857.87	617.51
							6160177.85	2295864.71	617.51
							6160168.01	2295869.53	617.51
							6160147.34	2295868.86	617.51
							6160129.63	2295874.81	617.51
							6160088.29	2295870.34	617.51
							6159862.89	2295874.15	617.51
							6159843.21	2295868.87	617.51
							6159774.31	2295870.80	617.51
							6159756.59	2295880.80	617.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159738.78	2295882.46	617.51
							6159733.96	2295924.02	617.51
							6159689.67	2295948.40	617.51
							6159690.66	2295971.04	617.51
							6159695.37	2295982.85	617.51
							6159691.63	2295985.42	617.51
							6159674.63	2295948.40	617.51
							6159674.77	2295934.75	617.51
							6159667.36	2295928.38	617.51
							6159658.17	2295929.09	617.51
							6159653.85	2295932.65	617.51
							6159639.98	2295958.24	617.51
							6159627.59	2295969.07	617.51
							6159621.62	2295961.33	617.51
							6159620.94	2295944.46	617.51
							6159614.83	2295932.65	617.51
							6159616.55	2295924.78	617.51
							6159611.34	2295884.42	617.51
							6159603.41	2295871.27	617.51
							6159585.33	2295854.27	617.51
							6159545.89	2295842.18	617.51
							6159510.53	2295850.46	617.51
							6159446.56	2295842.19	617.51
							6159410.72	2295833.24	617.51
							6159411.93	2295827.34	617.51
							6159426.87	2295815.12	617.51
							6159433.82	2295804.70	617.51
							6159433.19	2295795.84	617.51
							6159426.50	2295787.97	617.51
							6159425.62	2295778.12	617.51
							6159434.74	2295769.83	617.51
							6159448.52	2295771.73	617.51
							6159456.80	2295767.30	617.51
							6159450.57	2295763.36	617.51
							6159433.90	2295761.25	617.51
CONTOURS_EX			CONTOURS_EX00131		618.51		6160062.84	2296059.48	618.51
							6160049.35	2296059.62	618.51
							6160062.84	2296059.48	618.51
CONTOURS_EX			CONTOURS_EX00132		618.51		6160197.78	2296058.39	618.51
							6160195.04	2296059.62	618.51
							6160197.78	2296058.39	618.51
CONTOURS_EX			CONTOURS_EX00133		618.51		6159999.83	2296055.55	618.51
							6159921.71	2296059.62	618.51
							6160036.77	2296059.62	618.51
							6159999.83	2296055.55	618.51
CONTOURS_EX			CONTOURS_EX00134		618.51		6160520.45	2296041.83	618.51
							6160501.45	2296059.62	618.51
							6160529.74	2296059.62	618.51
							6160520.45	2296041.83	618.51
CONTOURS_EX			CONTOURS_EX00135		618.51		6159624.70	2296032.77	618.51
							6159628.10	2296038.41	618.51
							6159624.70	2296032.77	618.51
CONTOURS_EX			CONTOURS_EX00136		618.51		6159914.22	2296022.07	618.51
							6159907.19	2296025.17	618.51
							6159912.11	2296031.08	618.51
							6159918.23	2296027.14	618.51
							6159914.22	2296022.07	618.51
CONTOURS_EX			CONTOURS_EX00137		618.51		6159888.69	2296021.02	618.51
							6159868.57	2296025.93	618.51
							6159863.50	2296036.98	618.51
							6159849.11	2296049.98	618.51
							6159846.34	2296058.64	618.51
							6159880.70	2296058.64	618.51
							6159891.38	2296031.13	618.51
							6159888.69	2296021.02	618.51
CONTOURS_EX			CONTOURS_EX00138		618.51		6159838.29	2295884.59	618.51
							6159842.73	2295894.27	618.51
							6159847.44	2295897.22	618.51
							6159846.16	2295903.44	618.51
							6159830.03	2295902.52	618.51
							6159829.03	2295895.25	618.51
							6159838.29	2295884.59	618.51
CONTOURS_EX			CONTOURS_EX00139		618.51		6160227.10	2295865.69	618.51
							6160214.11	2295866.71	618.51
							6160200.71	2295877.53	618.51
							6160207.38	2295876.58	618.51
							6160223.13	2295888.84	618.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160237.69	2295887.38	618.51
							6160239.57	2295883.44	618.51
							6160227.10	2295865.69	618.51
CONTOURS_EX			CONTOURS_EX00140		618.51		6160473.15	2295863.73	618.51
							6160466.72	2295869.66	618.51
							6160475.54	2295870.10	618.51
							6160473.15	2295863.73	618.51
CONTOURS_EX			CONTOURS_EX00141		618.51		6160422.98	2295862.72	618.51
							6160411.32	2295867.69	618.51
							6160405.79	2295873.18	618.51
							6160406.45	2295878.52	618.51
							6160416.04	2295879.83	618.51
							6160428.84	2295874.43	618.51
							6160445.70	2295875.57	618.51
							6160440.65	2295864.89	618.51
							6160429.82	2295866.01	618.51
							6160422.98	2295862.72	618.51
CONTOURS_EX			CONTOURS_EX00142		618.51		6160502.76	2295862.67	618.51
							6160492.87	2295863.75	618.51
							6160498.72	2295873.09	618.51
							6160515.45	2295876.52	618.51
							6160529.56	2295873.60	618.51
							6160516.44	2295870.81	618.51
							6160502.76	2295862.67	618.51
CONTOURS_EX			CONTOURS_EX00143		618.51		6160536.33	2295862.56	618.51
							6160532.12	2295871.69	618.51
							6160538.09	2295867.39	618.51
							6160542.68	2295880.49	618.51
							6160544.98	2295882.97	618.51
							6160548.92	2295881.52	618.51
							6160536.33	2295862.56	618.51
CONTOURS_EX			CONTOURS_EX00144		618.51		6159413.16	2295846.95	618.51
							6159403.25	2295846.12	618.51
							6159406.20	2296058.64	618.51
							6159690.78	2296058.64	618.51
							6159685.98	2296056.41	618.51
							6159685.73	2296050.14	618.51
							6159693.53	2296058.64	618.51
							6159838.93	2296058.64	618.51
							6159837.62	2296043.87	618.51
							6159843.91	2296023.90	618.51
							6159870.77	2296001.06	618.51
							6159882.58	2296001.44	618.51
							6159898.33	2295995.67	618.51
							6159920.96	2295996.15	618.51
							6159928.84	2295999.92	618.51
							6159947.54	2295996.48	618.51
							6159965.26	2295981.17	618.51
							6159983.96	2295987.36	618.51
							6160007.76	2295985.00	618.51
							6160026.28	2295959.23	618.51
							6160040.06	2295969.73	618.51
							6160074.51	2295982.34	618.51
							6160098.13	2295974.98	618.51
							6160103.05	2295963.13	618.51
							6160114.24	2295962.18	618.51
							6160097.97	2295924.94	618.51
							6160102.64	2295915.51	618.51
							6160109.94	2295915.61	618.51
							6160109.94	2295919.85	618.51
							6160140.45	2295916.18	618.51
							6160151.28	2295907.22	618.51
							6160154.95	2295899.19	618.51
							6160176.87	2295891.43	618.51
							6160177.89	2295885.37	618.51
							6160173.92	2295879.42	618.51
							6160153.25	2295886.06	618.51
							6160142.42	2295882.94	618.51
							6160120.77	2295889.38	618.51
							6160096.29	2295879.37	618.51
							6160060.73	2295873.43	618.51
							6160040.06	2295879.06	618.51
							6160012.50	2295876.76	618.51
							6159987.89	2295878.98	618.51
							6159968.21	2295874.65	618.51
							6159953.45	2295877.58	618.51
							6159873.72	2295876.55	618.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159857.97	2295881.42	618.51
							6159842.22	2295873.22	618.51
							6159839.27	2295875.36	618.51
							6159817.62	2295871.33	618.51
							6159777.26	2295873.92	618.51
							6159757.76	2295885.59	618.51
							6159748.04	2295886.70	618.51
							6159744.08	2295913.95	618.51
							6159736.91	2295931.88	618.51
							6159728.05	2295941.38	618.51
							6159707.07	2295952.34	618.51
							6159709.14	2295972.02	618.51
							6159715.57	2295980.88	618.51
							6159708.43	2295998.60	618.51
							6159689.67	2296013.96	618.51
							6159672.29	2295996.29	618.51
							6159668.01	2295995.28	618.51
							6159660.05	2295999.49	618.51
							6159648.90	2296017.87	618.51
							6159623.72	2296032.54	618.51
							6159611.72	2295973.99	618.51
							6159605.91	2295883.44	618.51
							6159589.73	2295860.80	618.51
							6159571.56	2295852.34	618.51
							6159543.01	2295847.43	618.51
							6159513.48	2295853.04	618.51
							6159413.16	2295846.95	618.51
CONTOURS_EX			CONTOURS_EX00145		619.51		6159967.22	2295920.41	619.51
							6159973.77	2295927.73	619.51
							6159965.26	2295937.11	619.51
							6159964.24	2295924.78	619.51
							6159967.22	2295920.41	619.51
CONTOURS_EX			CONTOURS_EX00146		619.51		6159995.77	2295895.74	619.51
							6160004.12	2295902.14	619.51
							6160005.04	2295911.41	619.51
							6159996.08	2295911.00	619.51
							6159995.77	2295895.74	619.51
CONTOURS_EX			CONTOURS_EX00147		619.51		6160069.76	2295889.17	619.51
							6160067.75	2295889.35	619.51
							6160074.84	2295894.91	619.51
							6160087.13	2295890.33	619.51
							6160069.76	2295889.17	619.51
CONTOURS_EX			CONTOURS_EX00148		619.51		6160067.69	2295888.29	619.51
							6160067.69	2295888.29	619.51
CONTOURS_EX			CONTOURS_EX00149		619.51		6159784.25	2295875.47	619.51
							6159764.47	2295883.99	619.51
							6159756.69	2295891.31	619.51
							6159752.56	2295922.72	619.51
							6159724.47	2295956.27	619.51
							6159725.48	2295971.04	619.51
							6159735.90	2295977.93	619.51
							6159730.57	2295997.61	619.51
							6159704.24	2296020.25	619.51
							6159698.82	2296031.08	619.51
							6159697.41	2296036.00	619.51
							6159705.44	2296051.75	619.51
							6159705.66	2296058.64	619.51
							6159821.92	2296058.64	619.51
							6159821.71	2296047.65	619.51
							6159818.11	2296040.92	619.51
							6159819.61	2296034.03	619.51
							6159817.69	2296029.04	619.51
							6159809.06	2296023.20	619.51
							6159815.65	2296018.55	619.51
							6159821.56	2296024.95	619.51
							6159830.41	2296021.06	619.51
							6159847.57	2295992.13	619.51
							6159879.63	2295987.33	619.51
							6159892.42	2295976.23	619.51
							6159904.83	2295977.54	619.51
							6159929.82	2295967.47	619.51
							6159924.00	2295983.83	619.51
							6159932.78	2295986.18	619.51
							6159949.89	2295955.67	619.51
							6159964.27	2295956.74	619.51
							6159972.23	2295963.25	619.51
							6159997.70	2295928.68	619.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6160009.55	2295932.32	619.51
							6160017.42	2295926.87	619.51
							6160037.11	2295925.21	619.51
							6160031.66	2295931.67	619.51
							6160037.11	2295939.35	619.51
							6160043.80	2295931.67	619.51
							6160043.51	2295927.23	619.51
							6160038.75	2295924.78	619.51
							6160054.92	2295908.05	619.51
							6160044.27	2295886.11	619.51
							6160014.47	2295885.98	619.51
							6160009.55	2295894.74	619.51
							6159995.77	2295895.22	619.51
							6159990.85	2295887.26	619.51
							6159983.94	2295888.38	619.51
							6159967.22	2295880.00	619.51
							6159953.45	2295883.75	619.51
							6159947.05	2295879.99	619.51
							6159925.89	2295882.35	619.51
							6159914.08	2295879.78	619.51
							6159864.86	2295882.17	619.51
							6159853.57	2295894.27	619.51
							6159849.51	2295906.48	619.51
							6159825.49	2295914.26	619.51
							6159820.57	2295912.28	619.51
							6159819.27	2295906.08	619.51
							6159825.11	2295886.39	619.51
							6159821.56	2295878.34	619.51
							6159815.65	2295875.77	619.51
							6159806.79	2295879.82	619.51
							6159784.25	2295875.47	619.51
CONTOURS_EX			CONTOURS_EX00150		619.51		6159547.02	2295850.89	619.51
							6159514.47	2295855.41	619.51
							6159403.25	2295853.55	619.51
							6159406.20	2296058.64	619.51
							6159613.86	2296058.64	619.51
							6159600.17	2295879.50	619.51
							6159584.35	2295859.42	619.51
							6159547.02	2295850.89	619.51
CONTOURS_EX			CONTOURS_EX00151		620.51		6159746.10	2296006.13	620.51
							6159720.68	2296025.17	620.51
							6159715.27	2296041.90	620.51
							6159718.14	2296047.81	620.51
							6159715.60	2296058.64	620.51
							6159806.79	2296058.64	620.51
							6159793.01	2296035.69	620.51
							6159779.49	2296027.14	620.51
							6159775.30	2296014.58	620.51
							6159763.48	2296014.72	620.51
							6159746.10	2296006.13	620.51
CONTOURS_EX			CONTOURS_EX00152		620.51		6159826.51	2295997.58	620.51
							6159826.51	2295997.58	620.51
CONTOURS_EX			CONTOURS_EX00153		620.51		6159819.67	2295982.76	620.51
							6159819.59	2295985.27	620.51
							6159819.67	2295982.76	620.51
CONTOURS_EX			CONTOURS_EX00154		620.51		6159834.83	2295954.80	620.51
							6159829.38	2295958.19	620.51
							6159832.38	2295964.47	620.51
							6159834.83	2295954.80	620.51
CONTOURS_EX			CONTOURS_EX00155		620.51		6159872.79	2295886.34	620.51
							6159866.31	2295887.38	620.51
							6159862.89	2295896.16	620.51
							6159869.78	2295903.48	620.51
							6159877.90	2295900.41	620.51
							6159882.65	2295890.33	620.51
							6159872.79	2295886.34	620.51
CONTOURS_EX			CONTOURS_EX00156		620.51		6159782.20	2295879.48	620.51
							6159765.63	2295888.36	620.51
							6159766.33	2295901.26	620.51
							6159774.95	2295910.01	620.51
							6159763.27	2295918.87	620.51
							6159752.88	2295934.62	620.51
							6159751.74	2295945.52	620.51
							6159741.93	2295956.18	620.51
							6159746.31	2295960.21	620.51
							6159757.27	2295991.71	620.51
							6159762.50	2295995.16	620.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159768.84	2295991.71	620.51
							6159785.45	2295953.64	620.51
							6159791.04	2295952.00	620.51
							6159798.47	2295938.11	620.51
							6159793.23	2295912.97	620.51
							6159806.06	2295895.25	620.51
							6159800.44	2295886.39	620.51
							6159782.20	2295879.48	620.51
CONTOURS_EX			CONTOURS_EX00157		620.51		6159549.00	2295853.83	620.51
							6159516.44	2295858.30	620.51
							6159477.07	2295856.05	620.51
							6159428.84	2295860.09	620.51
							6159412.11	2295865.78	620.51
							6159406.18	2295877.51	620.51
							6159403.25	2295877.90	620.51
							6159406.20	2296058.64	620.51
							6159607.80	2296058.64	620.51
							6159602.29	2295945.23	620.51
							6159594.60	2295876.55	620.51
							6159582.86	2295861.31	620.51
							6159549.00	2295853.83	620.51
CONTOURS_EX			CONTOURS_EX00158		621.51		6159490.85	2296011.02	621.51
							6159497.40	2296016.31	621.51
							6159492.33	2296017.30	621.51
							6159490.85	2296011.02	621.51
CONTOURS_EX			CONTOURS_EX00159		621.51		6159481.00	2296006.11	621.51
							6159480.60	2296009.02	621.51
							6159477.90	2296008.59	621.51
							6159481.00	2296006.11	621.51
CONTOURS_EX			CONTOURS_EX00160		621.51		6159429.96	2295988.62	621.51
							6159426.07	2295989.74	621.51
							6159429.96	2295988.62	621.51
CONTOURS_EX			CONTOURS_EX00161		621.51		6159775.41	2295925.65	621.51
							6159769.92	2295927.73	621.51
							6159774.31	2295934.87	621.51
							6159779.76	2295933.64	621.51
							6159778.55	2295926.75	621.51
							6159775.41	2295925.65	621.51
CONTOURS_EX			CONTOURS_EX00162		621.51		6159555.97	2295857.68	621.51
							6159517.42	2295861.51	621.51
							6159476.08	2295859.19	621.51
							6159439.67	2295863.23	621.51
							6159430.81	2295865.16	621.51
							6159423.95	2295870.64	621.51
							6159418.87	2295881.35	621.51
							6159404.23	2295885.50	621.51
							6159405.22	2295957.84	621.51
							6159453.45	2295954.91	621.51
							6159464.27	2295947.83	621.51
							6159465.36	2295958.24	621.51
							6159480.03	2295968.07	621.51
							6159488.43	2295982.85	621.51
							6159472.15	2295995.01	621.51
							6159449.51	2295987.84	621.51
							6159433.50	2295988.50	621.51
							6159430.73	2295996.63	621.51
							6159437.70	2296001.07	621.51
							6159446.12	2296013.36	621.51
							6159453.61	2296028.12	621.51
							6159456.27	2296043.75	621.51
							6159450.49	2296050.09	621.51
							6159447.42	2296036.12	621.51
							6159437.79	2296027.04	621.51
							6159420.96	2296018.84	621.51
							6159406.20	2296017.96	621.51
							6159406.20	2296058.64	621.51
							6159490.56	2296058.64	621.51
							6159489.40	2296050.76	621.51
							6159493.80	2296046.78	621.51
							6159494.92	2296050.76	621.51
							6159492.04	2296051.75	621.51
							6159490.96	2296058.64	621.51
							6159604.33	2296058.64	621.51
							6159598.27	2295943.48	621.51
							6159594.15	2295930.68	621.51
							6159595.86	2295915.92	621.51
							6159589.93	2295873.60	621.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159581.40	2295863.19	621.51
							6159555.97	2295857.68	621.51
CONTOURS_EX			CONTOURS_EX00163		622.51		6159408.18	2296027.13	622.51
							6159406.20	2296058.64	622.51
							6159438.09	2296058.64	622.51
							6159434.01	2296038.95	622.51
							6159425.76	2296032.19	622.51
							6159408.18	2296027.13	622.51
CONTOURS_EX			CONTOURS_EX00164		622.51		6159555.82	2295859.81	622.51
							6159511.52	2295866.71	622.51
							6159486.91	2295864.28	622.51
							6159439.67	2295868.05	622.51
							6159427.71	2295876.55	622.51
							6159426.83	2295883.44	622.51
							6159420.96	2295889.95	622.51
							6159404.23	2295892.90	622.51
							6159405.22	2295946.83	622.51
							6159444.53	2295939.60	622.51
							6159452.46	2295942.79	622.51
							6159465.26	2295942.46	622.51
							6159474.10	2295950.38	622.51
							6159486.91	2295951.17	622.51
							6159493.56	2295956.27	622.51
							6159511.81	2296018.28	622.51
							6159504.75	2296058.64	622.51
							6159601.12	2296058.64	622.51
							6159593.82	2295980.88	622.51
							6159594.66	2295945.45	622.51
							6159589.78	2295931.67	622.51
							6159592.03	2295917.89	622.51
							6159585.22	2295899.19	622.51
							6159586.38	2295871.63	622.51
							6159580.41	2295865.32	622.51
							6159555.82	2295859.81	622.51
CONTOURS_EX			CONTOURS_EX00165		623.51		6159407.42	2296045.61	623.51
							6159406.20	2296058.64	623.51
							6159427.67	2296058.64	623.51
							6159422.93	2296051.08	623.51
							6159407.42	2296045.61	623.51
CONTOURS_EX			CONTOURS_EX00166		623.51		6159555.00	2295863.58	623.51
							6159525.17	2295868.55	623.51
							6159512.91	2295873.60	623.51
							6159513.87	2295889.94	623.51
							6159518.91	2295892.30	623.51
							6159513.48	2295897.02	623.51
							6159498.72	2295899.14	623.51
							6159459.35	2295896.05	623.51
							6159458.87	2295875.06	623.51
							6159439.67	2295873.65	623.51
							6159435.58	2295878.67	623.51
							6159451.60	2295927.73	623.51
							6159455.41	2295931.89	623.51
							6159467.86	2295936.24	623.51
							6159494.78	2295913.78	623.51
							6159504.63	2295913.01	623.51
							6159513.37	2295917.02	623.51
							6159516.44	2295936.19	623.51
							6159550.07	2295968.09	623.51
							6159543.97	2295974.98	623.51
							6159521.85	2295984.82	623.51
							6159524.81	2295999.08	623.51
							6159548.90	2296008.44	623.51
							6159525.14	2296025.02	623.51
							6159519.04	2296033.68	623.51
							6159515.92	2296044.86	623.51
							6159520.95	2296058.64	623.51
							6159597.29	2296058.64	623.51
							6159591.36	2296026.04	623.51
							6159593.64	2296002.53	623.51
							6159586.32	2295965.70	623.51
							6159565.26	2295971.04	623.51
							6159576.48	2295959.57	623.51
							6159588.29	2295961.50	623.51
							6159590.26	2295952.37	623.51
							6159585.33	2295931.67	623.51
							6159587.58	2295920.84	623.51
							6159578.90	2295901.16	623.51

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(ft)	(ft)	(ft)	(ft)	(ft)
							6159582.84	2295884.42	623.51
							6159582.45	2295869.72	623.51
							6159555.00	2295863.58	623.51
CONTOURS_EX			CONTOURS_EX00167		624.51		6159587.39	2296037.88	624.51
							6159575.49	2296041.22	624.51
							6159571.49	2296037.97	624.51
							6159564.70	2296041.90	624.51
							6159574.51	2296050.98	624.51
							6159573.50	2296058.64	624.51
							6159592.16	2296058.64	624.51
							6159587.39	2296037.88	624.51
CONTOURS_EX			CONTOURS_EX00168		624.51		6159588.52	2296000.33	624.51
							6159582.32	2296002.48	624.51
							6159577.57	2296011.50	624.51
							6159578.90	2296018.28	624.51
							6159583.37	2296021.45	624.51
							6159588.82	2296017.83	624.51
							6159588.52	2296000.33	624.51
CONTOURS_EX			CONTOURS_EX00169		624.51		6159541.38	2295993.34	624.51
							6159532.97	2295995.64	624.51
							6159538.09	2295997.68	624.51
							6159541.38	2295993.34	624.51
CONTOURS_EX			CONTOURS_EX00170		624.51		6159578.53	2295982.76	624.51
							6159572.54	2295984.62	624.51
							6159570.70	2295990.72	624.51
							6159581.40	2295995.29	624.51
							6159585.35	2295986.79	624.51
							6159578.53	2295982.76	624.51
CONTOURS_EX			CONTOURS_EX00171		624.51		6159565.71	2295908.97	624.51
							6159565.71	2295908.97	624.51
CONTOURS_EX			CONTOURS_EX00172		624.51		6159576.48	2295874.57	624.51
							6159566.39	2295877.29	624.51
							6159558.93	2295889.51	624.51
							6159552.24	2295892.30	624.51
							6159551.27	2295897.22	624.51
							6159564.67	2295908.40	624.51
							6159572.54	2295898.24	624.51
							6159578.04	2295879.50	624.51
							6159576.48	2295874.57	624.51