Noise Study Report

SR-94 Improvement Project

Jamul, California

District 11 – San Diego County – State Route 94 –

PM: 13.4-14.2; 17.1-17.6; 19.2-20.2; 20.4-21.4

August 2014

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1.0 Summary

This noise study report was prepared for the proposed improvement project along the State Route (SR-94 at the Jamul Indian Village entrance. The purpose of this traffic noise impact analysis is to describe the existing noise environment in the project area, identify the potential traffic noise impacts of the Proposed Project, and identify and potential noise abatement measures, as necessary. The project area includes SR-94 and Melody Road south of the community of Jamul in the county of San Diego, California.

A discussion of estimated construction noise, potential impacts, and measures to avoid or minimize construction noise is included in this analysis. All California Department of Transportation (Caltrans) standard specifications for construction noise abatement would be implemented.

The existing and future noise level would not exceed the FHWA NAC for exterior or interior locations. Construction while audible in the surrounding community would be temporary and would result in no adverse impacts.

2.0 Introduction

This noise study report was prepared for the proposed State Route (SR-94) Improvement Project in and around the community of Jamul, California. The SR-94 improvements proposed are the result of the recently approved gaming facility on the Jamul Indian Village (JIV) located in the south-central portion of San Diego County, California (Figures A-1 and A-2, in Attachment 1). These improvements include an access road from SR-94 to the JIV, as well as improvements to five intersections along SR-94.

The purpose of this noise study is to describe the existing noise environment within the project area; identify the potential noise impacts of the Proposed Project, including construction; and as necessary, identify methods to reduce potential impacts to comply with Caltrans standards.

2.1 Project Purpose

The primary objectives of the Proposed Project are to accomplish the following:

- Reduce congestion and delay, and improve Level of Service (LOS) along SR-94 in the vicinity of Melody Road and Reservation Road;
- Improve the geometric design of the main access between SR-94 and the JIV Reservation; and
- Improve the geometrics of SR-94 in the vicinity of Melody Road and Reservation Road in a manner consistent with the SR-94 Transportation Concept Summary (TCS) and the 2050 Regional Transportation Plan (RTP).

Traffic volumes on SR-94 are projected to increase from 10,600 average daily trips (ADT) north of Melody Road and 7,500 ADT south of Melody Road in 2010 (existing conditions) to 17,000 ADT north of Melody Road, and 13,000 ADT south of Melody Road in 2035. Per the Traffic Impact Study prepared for the JIV Gaming Project, the LOS of SR-94 north and south of Melody Road, as well as the peak hour LOS at the SR-94/Melody Road intersection, are projected to degrade to unacceptable LOS producing congestion and excessive delays. In addition, unacceptable LOS would also result from the JIV Gaming Project at the five intersection improvements along SR-94 addressed in this assessment: (1) SR-94/Jamacha Boulevard, (2) SR-94/Jamacha Road, (3) SR-94/Steele Canyon Road, (4) SR-94/Lyons Valley Road and (5) SR-94/Maxfield Road.

The Final Tribal Environmental Evaluation (Final EE) prepared for the JIV Gaming Project, which serves as the basis for this noise study report, indicates the existing geometric design of the SR-94/Reservation Road connection is inadequate as a main access to the JIV Reservation. The angle of intersection, horizontal alignment, shoulder width, and corner sight distance are all non-standard. The SR-94 Rural TCS identified portions of SR-94 south of Melody Road as deficient due to existing highway geometrics and terrain.

Realignment of deficient curves, widening of the traveled way, installation of standard 8-foot shoulders, addition of passing lanes, and adding/improving turn pockets are included as types of improvements. The 2050 RTP unconstrained scenario includes upgrading SR-94 from a 2-lane conventional highway to a 4-lane conventional highway north of Melody Road.

2.2 Project Description

The Jamul Indian Village (JIV) is proposing to construct signalized driveway access to their separately and independently approved future gaming facility and also to improve five intersection locations along State Route 94 (SR-94), as a result of traffic generate from the operation of their future gaming facility. The California Department of Transportation (Caltrans) is required to review encroachments on State right of way and anticipates the JIV to apply for one or more encroachment permits to perform the proposed construction. In conjunction with the proposed improvements and impact to State right of way, the requirements of the California Environmental Quality Act (CEQA) must be met before the issuance of a future encroachment permit. With Caltrans' oversight, the JIV is preparing the necessary environmental and engineering technical studies and will prepare an Environmental Impact Report (EIR) on Caltrans' behalf under CEQA and Caltrans guidelines to address the potential impacts from the proposed access alternatives and five intersection improvement locations. Caltrans will be the lead agency on the EIR and will independently review the EIR to ensure that the EIR meets CEQA requirements. The JIV is located approximately 1-mile south of Jamul, California (Figures A-1 and A-2, in Attachment 1) (Mile Post# 20.4/21.4).

The JIV is proposing three alternatives to access the future gaming facility adjacent to their property along SR-94. In addition, improvements to five intersections along SR-94 west of the future gaming facility will be a project feature of each of the three proposed access road alternatives. These access alternatives are proposed at the following locations: (1) the existing "Reservation Road", which connects the JIV property to SR-94, (2) an adjacent 4-acre parcel (north of the JIV property), which is currently owned by the JIV "known as Daisy Drive", or (3) via a new roadway constructed from Melody Road south to the JIV property. Under the Daisy Drive access alternative, there are three potential build options which are described in more detail below. The third access alternative at Melody Road would connect off of the County of San Diego's property. This access alternative would still require improvements to SR-94 resulting in the need for an encroachment permit from Caltrans.

In addition to the driveway access alternatives and the five intersection improvements a No Build alternative will be under consideration. Below is a breakdown of the proposed improvement alternatives:

Access Alternative 1: Reservation Road Access (Figures A-8.0 and A-8.1, in Attachment 1)

Access Alternative 2: Daisy Drive

Option 1: Full Disturbed Area (Figures A-9.0 and A-9.1, in Attachment 1)

Option 2: Reduced Disturbed Area (Figures A-10.0 and A-10.1, in Attachment 1)

Option 3: Minimum Disturbed Area (Figures A-11.0 and A-11.1, in Attachment 1)

Access Alternative 3: Melody Road Access (Figures A-12.0 and A-12.1, in Attachment 1). , and

Alternative 4: No Build Alternative.

The various options under Alternative 2 differ in the amount of additional right of way (ROW) needed to be incorporated into the project improvements. Each of the access alternatives are described in detail below in Section 1.2 Alternatives.

In addition to the access road improvements, the JIV also proposes to improve five intersections along SR-94 to address anticipated traffic generated from their future gaming facility. The intersections to be improved include:

1. SR-94/Jamacha Boulevard Intersection (Figure A-3, in Attachment 1),
2. SR-94/Jamacha Road Intersection (Figure A-4, in Attachment 1),
3. SR-94/Steele Canyon Road Intersection (Figure A-5, in Attachment 1),
4. SR-94/Lyons Valley Road Intersection (Figure A-6, in Attachment 1), and
5. SR-94/Maxfield Road Intersection (Figure A-7, in Attachment 1).

Proposed improvements for these intersections would range from signalization to restriping to providing an additional through/turn lane. Details related to intersection improvements are provided below in Section 1.2 Alternatives. The 3 access alternatives, No Build alternative and five on system intersection improvements will be evaluated in the CEQA EIR upon completion of the necessary technical studies.

<u>Alternatives</u>

The JIV is proposing three build alternatives adjacent to their property along SR-94 to access the future gaming facility. In addition to the access road improvements, the JIV also proposes to improve five intersections along SR-94 to address anticipated traffic generated from their future gaming facility. The five intersection improvements will be a project feature of all the access road alternatives. The intersections to be improved include:

1. <u>SR94/Jamacha Boulevard Intersection</u>: Restripe the northbound left-turn lane to a through shared-left-turn lane and the northbound through-shared-left turn lane as a second right-turn lane

(including required traffic signal modifications). The proposed improvements would affect Jamacha Boulevard, which is within the County.

2. SR94/Jamacha Road Intersection: Add a second eastbound right-turn lane and retaining wall (including required traffic signal modifications). The right-turn lane would extend beyond the existing Caltrans ROW. Reconstruct the northbound median to provide additional left-turn storage capacity for the northbound left-turn movement. The median would be reduced to provide additional storage while maintaining the left-turn storage for southbound left-turns into Rancho San Diego Town Center. Construct a vegetated bioswale on the north side of the SR-94, west of the Campo Road intersection, to treat stormwater runoff. Treatment works by filtration removal of pollutants through vegetative uptake and soil filtration. Runoff will enter the bioswale by curb cuts along the north side of SR-94.

3. SR94/Steele Canyon Road Intersection: Add a second eastbound and westbound through lane (including required traffic signal modification). Two of the approaches are within the County ROW. Three vegetated bioswales will be constructed to treat the stormwater runoff from the proposed improvements. One is located on the west bound side, west of Steele Canyon Road. Two are proposed on the east bound side, east and west of Steele Canyon Road. Treatment works by filtration removal of pollutants through vegetative uptake and soil filtration. Runoff will enter the bioswale by curb cuts along the north side of SR-94.

4. SR94/Lyons Valley Road Intersection: Install a traffic signal. Traffic signal equipment, such as detection system, conduits and pullboxes would have to be installed within the County's ROW.

5. SR94/Maxfield Road Intersection: Restripe the northbound approaches along SR94 to include an acceleration lane. This improvement will also include the widening of SR94 north of Maxfield Road necessary to accommodate additional acceleration lane. Re-grade the existing hillside on the west side of SR-94, north of the Maxfield Road intersection, to provide additional sight distance for motorists. The grading limits will encompass approximately 1-acre of area and will include a vegetated 2-to-1 slope and retaining wall along the existing Caltrans ROW. The retaining wall will be approximately 340-feet in length at an average height of 10-feet. Lastly, construct two vegetated bioswales on the west side of SR-94, north of the Maxfield intersection, to treat stormwater runoff by removing pollutants by filtration through vegetative uptake and soil filtration. Runoff will enter the bioswale by curb cuts along SR-94.

2.2.1 Alternative 1 – Realigned Reservation Road Access and Five Intersection Improvements along SR-94

Alternative 1 (Figures A-8.0 and A-8.1 in Attachment 1) proposes improvements to SR-94 from approximately 1,200 feet north of Melody Road to approximately 1,800 feet south of Reservation Road, for a total length of approximately 0.9 miles. The alignment of SR-94 is realigned to provide flatter horizontal and vertical curvature, as well as pavement cross slope and superelevation meeting current design standards. Lanes and shoulders are widened where necessary to also meet current standards.

New traffic signals would be installed for Alternative 1 at the intersection of SR-94/Melody Road, and also at the intersection of SR-94/Reservation Road, which is the proposed JIV access location for Alternative 1. Exclusive left-turn lanes would be provided along SR-94 for the north to west move onto Melody Road, and the south to east move onto Peaceful Valley Ranch Road. Likewise, an exclusive left-turn lane would be provided for the north to west move onto Reservation Road. In addition, a second southbound through lane would be provided along SR-94 between Melody Road and Reservation Road. Alternative 1 also widens Melody Road and Peaceful Valley Ranch Road to provide exclusive left-turn lanes onto SR-94 for overall improved intersection operation. The length of improvements along Melody Road and Peaceful Valley Ranch Road are approximately 700 feet and 500 feet, respectively. The intersection of SR-94/Reservation Road is also reconfigured with Alternative 1 to provide an intersection angle which meets current design standards. Retaining walls are proposed for Alternative 1 in order to minimize ROW requirements and environmental impacts. The five previously stated SR-94 intersection improvements apply to Alternative 1.

2.2.2 Alternative 2 – Daisy Drive

Alternative 2 proposes improvements along SR-94 from an area north of Melody Road to an area south of the JIV property. Three options using the same entrance are addressed under Alternative 2. While maintaining the same entrance, each of these options contains separate ROW requirements. The JIV access driveway for Alternative 2 is located approximately 500 feet north of existing Reservation Road, at “Daisy Drive.” Locating the access point at Daisy Drive decreases the intersection spacing to Melody Road, but shortens the project limits at the southern end. The Alternative 2 realignment of SR-94 maintains an alignment on the west side of existing SR-94, south of Daisy Drive, which results in one less horizontal curve along SR-94 within the project limits.

Alternative 2: Option 1 (Full Disturbed Area)

Option 1 proposes to improve SR-94 from approximately 1,200 feet north of Melody Road to approximately 1,400 feet south of existing Reservation Road, for a total length of approximately 0.8 miles. Similar to Alternative 1, SR-94 is realigned and widened as part of Option 1 to improve traffic operations. No design exceptions are needed for Option 1.

Proposed traffic signals and exclusive left-turn lanes for Alternative 2: Option 1 are the same as for Alternative 1, except the traffic signal for access to the JIV Gaming Project is provided at Daisy Drive instead of Reservation Road. In Addition, Option 1 would provide an additional northbound lane along SR-94 between Daisy Drive and Peaceful Valley Ranch Road to accommodate the expected dual left-turn lanes departing from the access driveway at Daisy Drive. Improvements to Melody Road and Peaceful Valley Ranch Road are the same for Alternatives 1 and 2: Option 1. Retaining walls associated with Alternative 2: Option 1 are reduced when compared to Alternative 1. The five previously stated SR-94 intersection improvements apply to Alternative 2: Option 1.

Alternative 2: Option 2 (Reduced Disturbed Area)

Option 2 proposes to improve SR-94 from about 1200 feet north of Melody Road to about 1400 feet south of existing Reservation Road, for a total length of approximately 0.8 miles. The project limits north and south along SR-94 are the same as stated for Alternative 2: Option 1. Alternative 2: Option 2 differs from Option 1 in that ROW impacts are reduced within private property and environmentally sensitive areas. The Option 2 centerline alignment for SR-94 is shifted to the west through the intersection with Melody Road with the use of a reduced radius, and a broken-back curve (two curves with a short tangent deflecting in the same direction) is introduced between Melody Road and the proposed access driveway at Daisy Drive. The introduction of a reduced radius and broken-back horizontal curvature helps facilitate the reduced ROW impact associated with Option 2.

Proposed traffic signals and left-turn lanes are the same as stated for Alternative 2: Option 1, with the exception that no exclusive left-turn lane is proposed on the departure from Peaceful Valley Ranch Road for Option 2. In addition, the alignment for Melody Road, as well as for Peaceful Valley Ranch Road, is shifted to the north with Option 2 to further reduce ROW impact to environmentally sensitive areas. Alternative 2: Option 2 requires various retaining walls and fill walls to reduce the proposed footprint. The five previously discussed SR-94 intersection improvements apply to Alternative 2: Option 2.

Alternative 2: Option 3 (Minimum Disturbed Area)

Option 3 proposes to provide access to the JIV Gaming Project via Daisy Drive, the same as for Alternatives 2: Options 1 and 2. Alternative 2: Option 3, however, minimizes ROW impacts with the implementation of non-standard geometric elements requiring mandatory exceptions to Caltrans design standards. Reduced design speed from 55 mph to 45 mph, reduction in horizontal curvature, reduced shoulder width, reduced stopping sight distance along vertical curvature, increased maximum grade, and reduced superelevation rate are all incorporated to minimize impacts to ROW.

Improvements for Alternative 2: Option 3 begin approximately 800 feet north of Melody Road and continue to about 400 feet south of existing Reservation Road, for a total length of approximately 0.6 miles. Proposed traffic signals and exclusive left-turn lanes are the same for Options 2 and 3, except no left-turn is provided on the departure from Peaceful Valley Ranch Road. Lane widths are reduced along

Melody Road in order to accommodate the roadway widening while minimizing ROW impacts. Unlike Alternative 2: Option2 which realigned Melody Road to the south, Alternative 2: Option 3 retains the existing southern edge of traveled way and widens Melody Road to the north. One fill-wall and three cut-walls are proposed along SR-94 for Option 3. No walls are proposed along Melody Road. The five previously discussed SR-94 intersection improvements apply to Alternative 2: Option 3.

2.2.3 Alternative 3 – Melody Road Access

Alternative 3 provides access to the JIV Gaming Project via a proposed access driveway from Melody Road south to the JIV property. Therefore, no driveway improvements are proposed at either Reservation Road or Daisy Drive with this alternative. A wider footprint is necessary at the intersection of SR-94/Melody Road with this alternative in order to accommodate the necessary intersection improvements. In contrast to the other alternatives, Alternative 3 requires an additional northbound through lane north of Melody Road to accommodate a second exclusive left-turn lane proposed from Melody Road. A second exclusive left-turn lane is also required for the north to west move from SR-94 to Melody Road. A second through lane is also needed for westbound Melody Road leading to the proposed access driveway.

The proposed centerline alignment for SR-94 for Alternative 3 is relatively the same as proposed for Alternative 2: Option 1. However, the extent of improvement along both SR-94 and Melody Road are different when compared to the other alternatives. The difference is related to the access driveway location. Alternative 3 improvements begin approximately 1300 feet north of Melody Road and continue to about 900 feet south of existing Reservation Road, for a total length of approximately 0.8 miles. The length of improvements along Melody Road is increased from about 750 feet to about 1300 feet with Alternative 3. Traffic signals are proposed at the intersection of SR-94/Melody Road, and also at the driveway access location along Melody Road. A driveway would continue from the new intersection at Melody Road and the driveway access and continue on private property south to the future gaming facility. This driveway would require a combination of cut/fill and retaining walls along its length. The five previously discussed SR-94 intersection improvements apply to Alternative 3.

2.2.6 No Build Alternative

No roadway improvements would be constructed under the No Build Alternative.

2.3 Construction Activities

2.3.1 Roadway Improvements

While the precise level of construction activity, i.e. equipment, manpower, and time to completion is not currently known, past experience with similar projects allows certain assumptions to be

made. Manpower and other job needs would be at the discretion of the contractor. Construction activity is expected to be completed within a 7 to 9 month period, depending on weather conditions. With small exceptions, most construction activities would be completed during daylight hours.

Heavy equipment would include an earthmover/large D-8 dozer, one or two graders, one or two backhoes, a water truck, as many as four asphalt/concrete trucks, one to two paving machines and two roller compactors. Approximately 8-10 workers are anticipated to be on site at any one time to complete the construction work; workers would be divided up into work crews or gangs doing paving, excavating, clearing/grubbing and other targeted activities. Electrical, telephone, and water/wastewater crews would be onsite as necessary throughout the duration of construction activities.

Staging Areas

Two staging areas located adjacent to the project site are viable for staging; the first is the 10-acre parcel (currently optioned by the JIV) located at the northwest corner of SR94 and Melody Road, while the second is the balance of the 4-acre triangular parcel owned by the JIV directly adjacent to the Reservation. In order to make the site as safe as possible, the staging areas would be surrounded by chain-link fencing and illuminated at night to discourage theft or vandalism. Due to the short duration that the land would be occupied, no grading or other alteration of the topography would take place, nor would any trees or other natural features be disturbed or altered. Any topsoil that is disturbed during construction activities will be reseeded with native grasses after the work is completed so that visually and otherwise, the site will be identical to pre-construction conditions.

Construction Phases

Construction would be done is three predominant phases. Phase 1 would include the implementation of a Traffic Management Plan (TMP), which would include, among other things, installation of temporary lanes to carry traffic uninterrupted during the balance of the project. Phase 2 involves the installation and/or relocation of all infrastructure, both underground and surface level, including electrical, water and wastewater, and other third-tier utilities. The cabling and powering up for new traffic signals and streetlights would also be addressed during this phase. New expanded culverts and the construction of retaining walls would take place during Phase 2, as well as compaction activities to prepare the new road base for widened lanes and new driveways. Phase 3 involves the laying of new pavement and/or concrete for all new travel lanes, turn lanes, and shoulders. Extruded concrete curbs would also be installed during Phase 3. Finally, beauty work, including striping, the installation of top features (light standards and other lighting devices), and landscaping would be completed during Phase 3.

Construction Control Measures

A final TMP would be developed by the general contractor prior to the start of construction activities. The TMP would outline project elements including maintaining public access during construction, coordinating with private property owners where private driveways are involved (maintaining private property access via temporary access ways, etc.), and notifying the driving public of information about construction activities. Specific elements of the plan are noted below, but the list is not all-inclusive.

- Create a public noticing and awareness campaign,
- Determine the appropriate placement of signs, barricades, and other safety devices, and
- Develop traffic contingency plans to account for weather, traffic collisions, or other emergency situations, including detours to keep traffic moving and construction progressing during unexpected or unanticipated events.

2.3.2 Intersection Improvements

Construction equipment would vary depending on the various activities required for each intersection. It is estimated that construction activity could be as long as 2 months for Intersections 2 (SR-94/Jamacha Road) and 3 (SR-94/Steele Canyon Road), to as little as 1-month for the remainder. Construction activities would be completed during daylight hours. Heavy equipment would include one grader, one backhoe, a water truck, an asphalt truck, one paving machine and a roller compactor. Approximately 3-5 workers are anticipated to be on site at any one time to complete the construction work; workers would be divided up into work crews or gangs doing paving, excavating, clearing/grubbing and other targeted activities. Electrical, telephone, and water/wastewater crews would be onsite as necessary throughout the duration of construction activities.

Staging Areas

Staging areas would be located immediately adjacent to the construction site situated away from drainage areas, sensitive habitat and steep slopes.

Construction Phases

Although not as substantial as identified for the access road, construction phasing for the intersection improvements would be similar to those identified for the access road.

Construction Control Measures

The construction control measures would be the same for the intersections as identified for the access road.

3.0 Fundamentals of Traffic Noise

The following is a brief discussion of fundamental traffic noise concepts. For a detailed discussion, please refer to Caltrans' Technical Noise Supplement (TeNS) (Caltrans 2013), a technical supplement to the Protocol; that is available at (http://dot.ca.gov/hq/env/noise/pub/tens_complete.pdf).

3.1 Sound, Noise, and Acoustics

Sound can be described as the mechanical energy of a vibrating object transmitted by pressure waves through a liquid or gaseous medium (e.g., air) to a hearing organ, such as a human ear. Noise is defined as loud, unexpected, or annoying sound.

In the science of acoustics, the fundamental model consists of a sound (or noise) source, a receiver, and the propagation path between the two. The loudness of the noise source and obstructions or atmospheric factors affecting the propagation path to the receiver determines the sound level and characteristics of the noise perceived by the receiver. The field of acoustics deals primarily with the propagation and control of sound.

3.2 Frequency

Continuous sound can be described by frequency (pitch) and amplitude (loudness). A low-frequency sound is perceived as low in pitch. Frequency is expressed in terms of cycles per second, or hertz (Hz) (e.g., a frequency of 250 cycles per second is referred to as 250 Hz). High frequencies are sometimes more conveniently expressed in kilohertz, or thousands of hertz. The audible frequency range for humans is generally between 20 Hz and 20,000 Hz.

3.3 Sound Pressure Levels and Decibels

The amplitude of pressure waves generated by a sound source determines the loudness of that source. Sound pressure amplitude is measured in micro-Pascals (mPa). One mPa is approximately one hundred billionth (0.00000000001) of normal atmospheric pressure. Sound pressure amplitudes for different kinds of noise environments can range from less than 100 to 100,000,000 mPa. Because of this huge range of values, sound is rarely expressed in terms of mPa. Instead, a logarithmic scale is used to describe sound pressure level (SPL) in terms of decibels (dB). The threshold of hearing for young people is about 0 dB, which corresponds to 20 mPa.

3.4 Addition of Decibels

Because decibels are logarithmic units, SPL cannot be added or subtracted through ordinary arithmetic. Under the decibel scale, a doubling of sound energy corresponds to a 3-dB increase. In other words, when two identical sources are each producing sound of the same loudness, the resulting sound level at a given distance would be 3 dB higher than one source under the same conditions. For example, if one automobile produces an SPL of 70 dB when it passes an observer, two cars passing simultaneously would not produce 140 dB—rather, they would combine to produce 73 dB. Under the decibel scale, three sources of equal loudness together produce a sound level 5 dB louder than one source.

3.5 A-Weighted Decibels

The decibel scale alone does not adequately characterize how humans perceive noise. The dominant frequencies of a sound have a substantial effect on the human response to that sound. Although the intensity (energy per unit area) of the sound is a purely physical quantity, the loudness or human response is determined by the characteristics of the human ear.

Human hearing is limited in the range of audible frequencies as well as in the way it perceives the SPL in that range. In general, people are most sensitive to the frequency range of 1,000–8,000 Hz (the range of human speech) and perceive sounds within that range better than sounds of the same amplitude in higher or lower frequencies. To approximate the response of the human ear, sound levels of individual frequency bands are weighted, depending on the human sensitivity to those frequencies. Then, an “A-weighted” sound level (expressed in units of dBA) can be computed based on this information.

The A-weighting network approximates the frequency response of the average young ear when listening to most ordinary sounds. When people make judgments of the relative loudness or annoyance of a sound, their judgments correlate well with the A-scale sound levels of those sounds. Other weighting networks have been devised to address high noise levels or other special problems (e.g., B-, C-, and D-scales), but these scales are rarely used in conjunction with highway-traffic noise. Noise levels for traffic noise reports are typically reported in terms of A-weighted decibels or dBA. Table 1 describes typical A-weighted noise levels for various noise sources.

Table 1. Typical A-Weighted Noise Levels

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
	— 110 —	Rock band
Jet fly-over at 1000 feet		
	— 100 —	
Gas lawn mower at 3 feet		
	— 90 —	
Diesel truck at 50 feet at 50 mph		Food blender at 3 feet
	— 80 —	Garbage disposal at 3 feet
Noisy urban area, daytime		
Gas lawn mower, 100 feet	**— 70 —**	Vacuum cleaner at 10 feet
Commercial area		Normal speech at 3 feet
Heavy traffic at 300 feet	**— 60 —**	
		Large business office
Quiet urban daytime	**— 50 —**	Dishwasher next room
Quiet urban nighttime	**— 40 —**	Theater, large conference room (background)
Quiet suburban nighttime		
	— 30 —	Library
Quiet rural nighttime		Bedroom at night, concert
	— 20 —	
		Broadcast/recording studio
	— 10 —	
Lowest threshold of human hearing	**— 0 —**	Lowest threshold of human hearing

Source: Caltrans 2013

3.6 Human Response to Changes in Noise Levels

As discussed above, doubling sound energy results in a 3-dB increase in sound. However, given a sound level change measured with precise instrumentation, the subjective human perception of a doubling of loudness will usually be different than what is measured.

Under controlled conditions in an acoustical laboratory, the trained, healthy human ear is able to discern 1-dB changes in sound levels, when exposed to steady, single-frequency ("pure-tone") signals in the midfrequency (1,000 Hz–8,000 Hz) range. In typical noisy environments, changes in noise of 1 to 2 dB are generally not perceptible. However, it is widely accepted that people are able to begin to detect sound level increases of 3 dB in typical noisy environments. Further, a 5-dB increase is generally perceived as a distinctly noticeable increase, and a 10-dB increase is generally perceived as a doubling of loudness. Therefore, a doubling of sound energy (e.g., doubling the volume of traffic on a highway) that would result in a 3-dB increase in sound would generally be perceived as barely detectable.

3.7 Noise Descriptors

Noise in our daily environment fluctuates over time. Some fluctuations are minor, but some are substantial. Some noise levels occur in regular patterns, but others are random. Some noise levels fluctuate rapidly, others slowly. Some noise levels vary widely, but others are relatively constant. Various noise descriptors have been developed to describe time-varying noise levels. The following are the noise descriptors most commonly used in traffic noise analysis.

Equivalent Sound Level (L_{eq}): L_{eq} represents an average of the sound energy occurring over a specified period. In effect, L_{eq} is the steady-state sound level containing the same acoustical energy as the time-varying sound that actually occurs during the same period. The 1-hour A-weighted equivalent sound level (L_{eq}[h]) is the energy average of A-weighted sound levels occurring during a 1-hour period and is the basis for noise abatement criteria (NAC) used by Caltrans and FHWA.

Percentile-Exceeded Sound Level (L_{xx}): L_{xx} represents the sound level exceeded for a given percentage of a specified period (e.g., L_{10} is the sound level exceeded 10 percent of the time, and L_{90} is the sound level exceeded 90 percent of the time).

Maximum Sound Level (L_{max}): L_{max} is the highest instantaneous sound level measured during a specified period.

Day-Night Level (L_{dn}): L_{dn} is the energy average of A-weighted sound levels occurring over a 24-hour period, with a 10-dB penalty applied to A-weighted sound levels occurring during nighttime hours between 10 p.m. and 7 a.m.

Community Noise Equivalent Level (CNEL): Similar to L_{dn}, CNEL is the energy average of the A-weighted sound levels occurring over a 24-hour period, with a 10-dB penalty applied to A-weighted sound levels

occurring during the nighttime hours between 10 p.m. and 7 a.m., and a 5-dB penalty applied to the A-weighted sound levels occurring during evening hours between 7 p.m. and 10 p.m.

3.8 Sound Propagation

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

3.8.1 Geometric Spreading

Sound from a localized source (i.e., a point source) propagates uniformly outward in a spherical pattern. The sound level attenuates (or decreases) at a rate of 6 dBA 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 dBA for each doubling of distance from a line source.

3.8.2 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 feet. 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 dBA 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 dBA per doubling of distance.

3.8.3 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) from the highway 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.

3.8.4 Shielding by Natural or Human-Made Features

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. Natural terrain features (e.g., hills and dense woods) and human-made features (e.g., buildings and walls) can substantially reduce noise levels. Walls are often constructed between a source and a receiver specifically to reduce noise. A barrier that breaks the line of sight between a source and a receiver will typically result in at least 5 dB of noise reduction. Taller barriers provide increased noise reduction. Vegetation between the highway and receiver is rarely effective in reducing noise because it does not create a solid barrier.

4.0 Applicable Standards

4.1 State Standards

4.1.1 Traffic Noise Analysis Protocol for New Highway Construction and Reconstruction Projects

The Caltrans Noise Protocol specifies the policies, procedures, and practices to be used by agencies that sponsor new construction or reconstruction of highway projects. The noise abatement criteria (NAC) specified in the Protocol are the same as those specified in 23 CFR 772. Under 23 CFR 772.11, noise abatement must be considered for Type I projects if the project is predicted to result in a traffic noise impact. In such cases, 23 CFR 772 requires that the project sponsor "consider" noise abatement before adoption of the final environmental document. This process involves identification of noise abatement measures that are reasonable, feasible, and likely to be incorporated into the project, and of noise impacts for which no apparent solution is available.

Traffic noise impacts, as defined in 23 CFR 772.5, occur when the predicted noise level in the design year approaches or exceeds the NAC specified in 23 CFR 772, or a predicted noise level substantially exceeds the existing noise level (a "substantial" noise increase). The terms "substantial increase" or "approach" are not specifically defined by 23 CFR 772; these criteria are defined in the Protocol, as described below.

Table 2 summarizes NAC corresponding to various land use activity categories. Activity categories and related traffic noise impacts are determined based on the actual land use in a given area.

In identifying noise impacts, primary consideration is given to exterior areas of frequent human use. In situations where there are no exterior activities, or where the exterior activities are far from the roadway or physically shielded in a manner that prevents an impact on exterior activities, the interior criterion (Activity Category D) is used as the basis for determining a noise impact.

The Protocol defines a noise increase as substantial when the predicted noise levels with project implementation exceed existing noise levels by 12 dBA. The Protocol also states that a sound level is considered to approach an NAC level when the sound level is within 1 dB of the NAC identified in 23 CFR 772 (e.g., 66 dBA is considered to approach the NAC of 67 dBA, but 65 dBA is not).

The Technical Noise Supplement (TeNS) to the Protocol provides detailed technical guidance for the evaluation of highway traffic noise. This includes field measurement methods, noise modeling methods, and report preparation guidance.

Table 2. Activity Categories and Noise Abatement Criteria

Activity Category	NAC, Hourly A-Weighted Noise Level (dBA-L_{eq}[h][1])	Description of Activities
A	57 Exterior	Lands on which serenity and quiet are of extraordinary significance and serve an important public need and where the preservation of those qualities is essential if the area is to continue to serve its intended purpose.
B[2]	67 Exterior	Residential.
C[2]	67 Exterior	Active sport areas, amphitheaters, auditoriums, campgrounds, cemeteries, day care centers, hospitals, libraries, medical facilities, parks, picnic areas, places of worship, playgrounds, public meeting rooms, public or nonprofit institutional structures, radio studios, recording studios, recreation areas, Section 4(f) sites, schools, television studios, trails, and trail crossings
D	52 Interior	Auditoriums, day care centers, hospitals, libraries, medical facilities, places of worship, public meeting rooms, public or nonprofit institutional structures, radio studios, recording studios, schools, and television studios.
E	72 Exterior	Hotels, motels, offices, restaurants/bars, and other developed lands, properties, or activities not included in A–D or F.
F	--	Agriculture, airports, bus yards, emergency services, industrial, logging, maintenance facilities, manufacturing, mining, rail yards, retail facilities, shipyards, utilities (water resources, water treatment, electrical), and warehousing.
G	--	Undeveloped lands that are not permitted.

[1] The Leq(h) activity criteria values are for impact determination only and are not design standards for noise abatement measures. All values are A-weighted decibels (dBA).

[2] Includes undeveloped lands permitted for this activity category.

4.1.2 CEQA

The significance of noise impacts associated with noise level increases under CEQA is determined by the Project Development Team based on the project-related increase in noise and other project-specific conditions. No single numerical threshold is used on all projects. In the past, Caltrans definition for a substantial increase in noise (defined in the Protocol as a 12 dB increase between existing and design-year with-project conditions) has been used. This 12 dB increase should not necessarily be used for all projects. There could be cases where an increase less than 12 dB would approach significance (such as a quiet rural environment) or where a 12 dB increase would not necessarily be deemed significant (noisy urban environment.) It is important to note as well that a 3 dBA difference is generally the point at which the human ear will perceive a difference in noise level.

The absolute future noise level predicted is also a key factor in determining significance. If two people are speaking, 67 dBA is the approximate noise level at which human speech is interfered with.

Therefore, if the absolute future noise level is less than 67 dBA, which may be a factor in determining that the noise impact is less than significant.

Lastly, in determining significance under CEQA, it is important to take into account the setting of the impact. According to State CEQA Guidelines, Section 15064(b), an ironclad definition of significant effect is not always possible because the significance of an activity may vary with the setting. For example, an activity which may not be significant in an urban area may be significant in a rural area.

The determination of CEQA significance therefore is left to the Project Development Team for each project because the team is the most knowledgeable about the specifics of the project area and is in the best position to make the significance determination. The CEQA significance determination is disclosed in the environmental document, not in the noise technical report.

4.1.3 Section 216 of the California Streets and Highways Code

Section 216 of the California Streets and Highways Code relates to the noise effects of a proposed freeway project on public and private elementary and secondary schools. Under this code, a noise impact occurs if, as a result of a proposed freeway project, noise levels exceed 52 dBA-L_{eq}(h) in the interior of public or private elementary or secondary classrooms, libraries, multipurpose rooms, or spaces. This requirement does not replace the “approach or exceed” NAC FHWA Activity Category D for classroom interiors, but it is a requirement that must be addressed in addition to the requirements of 23 CFR 772.

If a project results in a noise impact under this code, noise abatement must be provided to reduce classroom noise to a level that is at or below 52 dBA-L_{eq}(h). If the noise levels generated from freeway and non-freeway sources exceed 52 dBA-L_{eq}(h) prior to the construction of the proposed freeway project, then noise abatement must be provided to reduce the noise to the level that existed prior to construction of the project.

5.0 Study Methods and Procedures

5.1 Selection of Receivers and Measurement Sites

Preliminary selection of receivers for modeling and measurement was made based on aerial photos of the project area and an initial field visit. Receiver locations were then refined based on the results of a field visit, maps, and photographic data, where areas of frequent human use associated with the residential units were identified. Three short-term (ST) and one long-term (LT), were collected and used to calibrate TNM relative to the distribution of traffic noise along the main improvements, where the roadway alignment or elevation would be changed. Short-term measurements were taken near the 5 intersections to provide a characterization of the existing noise environment. None of these locations were used to determine traffic noise impacts as they do not have areas of frequent human use.

Category B receivers in the project area are single-family residential units, which were chosen due to their proximity to the SR-94 or one of the five intersections and the potential for them to be affected by proposed improvements. Category B receivers in the project area are located along SR-94 and Melody Road (Figures A-3 through A-12.1). Category C receivers in the project area include the fire station east of SR-94 and the Jamul Indian Village Church, the Skyline Church, Taproot Preschool Montessori, and the McGrath YMCA and sports fields. The only Category E receiver in the project area is the TGI Fridays on the southeast corner of the intersection of SR-94 and Jamacha Road. Several Category F receives are located near each intersection and are generally retail commercial uses.

5.2 Field Measurement Procedures

One long-term (24-hour [LT]) noise measurement was conducted on September 26 through 27, 2012, to determine the loudest hour or period. The LT noise measurement was captured in 15-minute intervals and converted to 1-hour L_{eq} to determine the loudest hour, or hours, for each location. During the LT measurement, the sound level meter (SLM) was unattended and no traffic data were collected. The LT measurement location is shown in Figures A-3 through A-12.1.

Three short-term (ST) 15-minute noise measurements were also conducted between Post Mile 20.4 and 21.4 on September 26, 2012 (Figures A-3 through A12.1) and five ST measurements were taken at each of the intersections on March 25, 2014 (Figures A-3 through A-12.1), to measure existing noise levels and record general traffic characteristics in the project area. These measurement intervals were sufficient to characterize hourly traffic noise levels. ST noise level measurements taken outside the loudest period were adjusted up or down to normalize the data to the loudest period as defined by the 24-hour measurements. Detailed measurement data are included in Attachment 1. The results of the measurements are discussed in Section 6.3. SLM setup and instrumentation are discussed below.

5.2.1 Instrumentation and Setup

Three SLMs were used to measure existing noise in the project vicinity. Two SLMs were Larson-Davis Laboratories Model 820 (LD 820) Type 1 SLMs, and the third was a Larson Davis Laboratories Model LxT Type 1 SLM. During all measurement the SLM were set with the following parameters:

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

SLM calibration was checked with Larson Davis CAL 200 calibrators before and after use. Premeasurement and postmeasurement calibration results were within 0.1 dBA and no corrections were made to results. For all noise measurements, the meters were placed 5 feet above ground level.

5.2.2 Meteorology

Wind and temperature measurements were made at the time of existing noise measurements because atmospheric conditions can cause noise levels to fluctuate by 10 dBA or more at locations distant from the freeway. The fluctuations are generally less at closer distances. Wind and vertical temperature differentials cause the greatest meteorological effects on noise levels and propagation. A vertical gradient of temperature or wind velocity can produce a vertical gradient of sound velocity, which can cause sound waves to refract or bend. Wind speeds averaged less than 5 miles per hour (mph) during all measurements. The results of meteorological measurements are discussed further in Section 6.3.

5.2.3 Data Reduction

Noise-level data were captured in the SLMs and then electronically transferred to a desktop computer using the LD UTIL programs. Average noise levels for each measurement were calculated summing the time-energy products for each interval of measurement and converting them to the L_{eq} metric.

5.3 Traffic Noise Prediction

TNM was used to predict existing and future traffic noise levels at specific receiver locations. Inputs to TNM include:

- the three-dimensional coordinates of roadways, noise receivers, and topographic or planned barriers that would affect noise propagation;
- vehicle volumes and speeds, by type of vehicle;
- absorption factors based on modeled ground type; and

- adjustment (K-factors) factors.

TNM outputs are predicted noise levels at the selected receivers. Noise levels for receivers at exterior locations and ground-floor windows were predicted at 5 feet above the pad elevation.

5.4 Traffic Parameters

Existing and future traffic volumes on all study area roadways were taken from the traffic report for the SR 94 Improvement Project (Kimley-Horn 2014). Existing speeds were developed from site visits, driving the alignment, and SANDAG data. Vehicle mixes for SR-94 and area roadways were taken from the *2011 Annual Average Daily Truck Traffic on the California State Highway System* (Caltrans 2012).

Future traffic speeds and vehicle mixes on SR-94 and other area roadways were assumed to be the same as those used in the existing conditions. Information provided in the project traffic report indicates that during peak commute periods, none of the affected roadways would operate above maximum LOS C in the existing plus project nor the horizon year conditions (Kimley-Horn 2014). Therefore, the peak hour volumes reported in the traffic report are assumed to be the loudest hour traffic volumes as well. The traffic volume mix used in TNM for all roadways was 92.5% automobiles, 4.4% medium trucks, and 3.1% heavy trucks.

The modeled traffic volumes for the three access alternatives (PM 20.4 – 21.4) are provided in Table 3A for the existing and future conditions. The modeled traffic volumes under the existing and future conditions for the intersection improvements are included 3B. The TNM model runs are provided as Attachments 3 and 4 for the existing and future conditions, respectively.

Table 3A. Modeled Traffic Data between PM 20.4 and 21.4

Roadway	Segment	Speed	Peak Hour	Autos	MT	HT
Existing						
SR-94	North of Melody Lane	45	670	620	29	21
	South of Melody Lane	45	619	573	27	19
	South of JIV Access Road	45	627	581	27	19
Melody Lane	West of SR-94	30	16	14	1	1
2035 Alt 1& 2						
SR-94	North of Melody Lane	45	774	716	34	24
	South of Melody Lane	45	802	742	35	25
	South of JIV Access Road	45	680	629	30	21
Melody Lane	West of SR-94	30	119	110	5	4
2035 Alt 3						
SR-94	North of Melody Lane	45	817	756	36	25
	South of Melody Lane	45	680	629	30	21
	South of JIV Access Road	45	680	629	30	21
Melody Lane	West of SR-94	30	693	642	30	21
	West of Melody Road Access	30	138	128	6	4

Table 3B. Modeled Intersection Traffic Data

Roadway	Segment	Speed	Peak Hour	Autos	MT	HT
Existing						
SR-94	East of Jamacha Boulevard	55	1,855	1,717	81	57
	West of Jamacha Boulevard	55	2,296	2,125	100	71
	West of SR-54	55	1,652	1,542	82	28
	South of SR-54	40	793	733	35	25
	East of Steel Canyon Road	45	731	676	32	23
	West of Steel Canyon Road	45	674	623	30	21
	East of Lyons Valley Road	45	437	404	19	14
	West of Lyons Valley Road	45	683	632	30	21
	North of Maxfield Road	45	335	309	15	11
	South of Maxfield Road	45	327	302	15	10
Jamacha Boulevard	South of SR-94	50	696	643	31	22
Church Parking Lot	North of SR-94	25	15	13	1	1
SR-54	East of SR-94	50	1,142	1,058	50	34
Plaza Rancho San Diego	North of SR-94	25	118	109	5	4
Steel Canyon Road	North of SR-94	35	255	235	12	8
Lyons Valley Road	North of SR-94	40	255	235	12	8
Indian Springs Drive	South of SR-94	25	15	13	1	1
Maxfield Road	East of SR-94	25	16	14	1	1
Year 2035						
SR-94	East of Jamacha Boulevard	55	2,784	2,576	122	86
	West of Jamacha Boulevard	55	3,065	2,837	134	94
	West of SR-54	55	3,734	3,456	163	115
	South of SR-54	40	1,952	1,807	85	60
	East of Steel Canyon Road	45	1,392	1,288	61	43
	West of Steel Canyon Road	45	1,530	1,416	67	47
	East of Lyons Valley Road	45	1,206	1,116	53	37
	West of Lyons Valley Road	45	1,457	1,348	64	45
	North of Maxfield Road	45	929	859	41	29
	South of Maxfield Road	45	881	815	39	27
Jamacha Boulevard	South of SR-94	50	1,089	1,007	48	34
Church Parking Lot	North of SR-94	25	23	21	1	1
SR-54	East of SR-94	50	3,091	2,861	135	95
Plaza Rancho San Diego	North of SR-94	25	227	210	10	7
Steel Canyon Road	North of SR-94	35	369	341	16	12
Lyons Valley Road	North of SR-94	40	338	312	15	11
Indian Springs Drive	South of SR-94	25	24	22	1	1
Maxfield Road	East of SR-94	25	122	112	6	4

6.0 Existing Noise Environment

6.1 Project Area

The project area consists of several locations along SR-94:

Access Road

The access road study area is the portion of SR-94 that extends to the south away from Jamul, California. The project area consists of an approximate 4,500 foot segment of SR-94, an approximate 570 foot portion of Melody Road, and the immediately surrounding area. The area south of Melody Road and west of SR-94 is undeveloped. Single-family residential are scattered along the east and west side of SR-94 north of Melody Road and north and south along Melody Road. A fire station is located across SR-94 from the Jamul Indian Village and a few residences are located further east from SR-94 beyond the fire station. A church is also located on the Jamul Indian Reservation.

State Route 94/Jamacha Boulevard Intersection

At the northeastern most end of the project area is the SR-94/Jamacha Boulevard Intersection. SR-94 is a four-lane facility west of Jamacha Boulevard and a six-lane facility west of Jamacha Boulevard. The SR-94/Jamacha Boulevard Intersection has two eastbound thru-lanes and three westbound thru-lanes, as well as additional dedicated turning lanes on both sides of the intersection.

Topography around the intersection is rolling, and an unnamed intermittent drainage runs east toward Sweetwater River south of the highway. Road improvements on SR-94 have recently been completed, and a sound wall has been constructed in conjunction with the recent road widening (new eastbound lane) from Via Mercado, past Jamacha Boulevard, to Jamacha Road. The nearest land use is the Skyline Wesleyan Church located immediately north and northwest of the intersection. Local traffic using the SR-94/Jamacha Boulevard intersection originates from development off of Jamacha Boulevard.

Jamacha Boulevard, which terminates at the SR-94 intersection, has four travel lanes and an additional left turn lane at the intersection. Traveling in a southwesterly direction from the intersection, land uses along Jamacha Boulevard include undeveloped open space land that gives way to residential development, which transitions to commercial development between Calavo Drive and Sweetwater Springs Boulevard. No schools, colleges, libraries, hospitals or parks exist adjacent to the proposed improvements in this area. In addition to the Skyline Wesleyan church previously mentioned, Bright Hope Community Church and Total Deliverance Worship are adjacent to the SR-94 off Sweetwater Springs Boulevard.

The nearest residences to the SR-94/Jamacha Boulevard intersection are located approximately 1,500 feet to the west at the Avenida Roberta cul-de-sac. Residents from this area have access to SR-94 from either the SR-94/Jamacha Boulevard, SR-94/Sweetwater Springs Boulevard, or SR-94/Kenwood Drive

intersections. Additionally, access to SR-125 is also provided by Jamacha Boulevard's connection to other roadways.

State Route 94/Jamacha Road Intersection

SR-94 is a six-lane facility west of the Jamacha Road intersection to the Jamacha Boulevard intersection. Jamacha Road is a six-lane expressway with two two-way turn lanes east of the Jamacha Road intersection. SR-94 continues as a four-lane expressway with one southbound dedicated turn lane and two northbound dedicated turn lanes south of the Jamacha Road intersection.

This intersection is characterized by its urban setting and flat topography. A natural drainage channel runs parallel to SR-94 on the southwest side toward Sweetwater River, but continues under SR-94 as part of the municipal storm drainage system. The majority of the setting is urbanized and is surrounded by commercial and retail centers, a gasoline service station, and a San Diego County Department of Public Works corporation yard located southwest of the intersection. No schools, colleges, churches, libraries, hospitals or parks exist within adjacent to the proposed improvements. Cuyamaca College and San Diego County Library – Rancho San Diego Branch are both located east of the intersection, but would not be directly impacted by the proposed improvements.

State Route 94/Steele Canyon Road Intersection

SR-94 is a two-lane facility with a two-way left turn lane. Steele Canyon Road, which terminates at this intersection, has two lanes. This intersection and the segment is characterized primarily by commercial land uses and steep topography. There are residential land uses north of the intersection that access SR-94 via Steele Canyon Road. These residences also have the option to exit the area by traveling north on Steele Canyon Road to Willow Glenn Drive.

No schools, colleges, churches, libraries, hospitals or parks exist within adjacent to the proposed improvements. Steele Canyon County Park and Jamacha Elementary School are located north of the intersection at Steele Canyon Road and Jamul Drive. Travelers from out of the area can use either SR-94 (south) or Willow Glenn Drive (north) to access/ depart from the school or park.

State Route 94/Lyons Valley Road Intersection

In the area of the intersection, SR-94 is two-lane facility with a two-way left turn lane. Lyons Valley Road is a two-lane road with a right turn "sneaker" lane at this intersection. This intersection is characterized by a variety of land uses, steep topography, and an adjacent drainage channel. Surrounding land uses include the Taproot Montessori Preschool directly south of the intersection, commercial land uses on the northeast and southwest corners, and access to a residence off the northwest corner of the intersection (via Lyons Valley Road). Residences northeast of the intersection use Lyons Valley Road as a primary means of access. Access into and out of the area can also be accomplished by the use of Jamul Drive off of Lyons Valley Road, which would take travelers to Steele Canyon Drive.

No colleges, churches, libraries, hospitals or parks exist at or near the intersection. As mentioned previously, the Taproot Montessori Pre-School is located southeast of the intersection with access directly onto the intersection. Outside the intersection study area, and accessed from Lyons Valley Road are the Oak Grove Middle School, Jamul Primary School, Jamul Intermediate School and Jamul Dulzura Preschool. Churches located outside the intersection study area include the St. Pius X Church, Church of Latter Day Saints, and the Jamul Community Church.

State Route 94/Maxfield Road Intersection

This intersection is characterized by a variety of land uses, steep topography, and an adjacent drainage channel. Surrounding land uses are generally commercial land uses, with the exception of a residential land use located directly southwest of the intersection at. Additional residential uses are located further east of the intersection. Residences east of the intersection use Maxfield Road as a primary means of access. In the area of the intersection, SR-94 is two-lane conventional highway with a left turn lane in the north/west bound direction. Maxfield Road is a two-lane road controlled by a one-way stop sign.

No colleges, churches, libraries, hospitals or parks exist at or near the intersection

Short term construction related effects would be minimized through implementation of the TMP, which will ensure continuous operation of this intersection.

6.2 Noise Receivers

SR-94 undulates through the project area. Most surrounding land uses are located at a higher elevation than the existing roadway; however, the land uses surrounding Melody Road are at a similar elevation as the existing roadway. The noise receivers analyzed in this study are located in the residential and commercial areas along SR-94 and Melody Road (Figure A-8.0 through A-12.1) and in proximity to the intersections of SR-94 and Jamacha Boulevard (Figure A-3), SR-94 and Jamacha Road (Figure A-4), SR-94 and Steele Canyon Road (Figure A-5), SR-94 and Lyons Valley Road (Figure A-6), and SR-94 and Maxfield Road (Figure A-7). Most category B land uses in the project area are residential. This analysis includes 60 receivers that represent 30 single-family residential units, the Taproot Preschool Montessori, a sports field, two churches, one fire station, an industrial use, a restaurant and outdoor eating area, and 22 retail commercial uses.

Category C receivers include a fire station, two churches, a sports field, and the Taproot Preschool Montessori. Category E receivers include TGI Fridays with an outdoor eating area, Reno's Pub and Grill, Rancho Jamul Autocare, the Hornsby Properties Business Center. All category E receivers are located along SR-94 (see Figures A-3 through A-12.1, in Attachment 1).

6.3 Existing Noise Level Measurements

Site visits and noise measurements were conducted on September 26 and 27, 2012. For each measurement location, the SLM was placed 5 feet above the existing ground elevation. A summary of the LT (24-hour) measurement is provided in Table 4 below and the location is shown in Figures A-8.1, A-9.1, A-10.1, A-11.1, and A-12.1, in Attachment 1. Attachment 2 shows the complete data download for the (24-hour) measurement.

LT measurement data, Table 4, indicate that the loudest periods of the day in the northern end of the project area occur during the 7:00 a.m. hour.

ST noise levels were measured between the hours of 3:00 p.m. and 4:30 p.m. at selected receivers and other points of interest within the project area. Weather conditions were clear and warm, 70 degrees Fahrenheit (°F) to 85°F, with a slight breeze, less than 2–3 mph with gusts reaching 5 mph each day. Due to on-site activities, such as landscaping maintenance and parking lot noise, ST-4 was not taken at an acoustically representative location for Skyline Church. ST-4 was taken near SR-94 to isolate traffic noise, which is approximately 500 feet south of the nearest on-site building. At this distance noise levels would attenuated to 61 dBA L_{eq} or less due to geometric spreading alone. Since roadways are a continuous noise source, background noise (i.e., noise without the traffic noise from local roadways) is not easily measured. However, the background noise level may be estimated at 51 dBA L_{eq}, based on the average L_{90} measurement (which represents the noise level exceeded 90 percent of the time during the measurement).

Based on the 24-hour measurement, the noisiest hour (i.e., the greatest volumes at full speed) along the segment near the SR-94 and Melody Lane intersection occurs during the late afternoon commute period. ST measurements 1 through 3, 7, and 8 were taken outside the loudest hour and were adjusted upward for purposes of characterizing the loudest hour at the measurement locations. The ST noise measurements are summarized in Table 5.

The dominant noise source in the project area is traffic noise from major area roadways including SR-94, Jamacha Road, Jamacha Boulevard, Steele Canyon Road, and Lyons Valley Road. Smaller local roadways, including Melody Road and Maxfield Road, had limited traffic and only a minor effect on ambient noise levels in the project area.

Table 4. Summary of 24-Hour Measurements

Date	Time	L_{eq} (dBA)	Date	Time	L_{eq} (dBA)
9/26/2012	10:00	63.7	9/26/2012	22:00	60.4
9/26/2012	11:00	64.3	9/26/2012	23:00	59.3
9/26/2012	12:00	64.0	9/27/2012	00:00	58.1
9/26/2012	13:00	64.3	9/27/2012	01:00	55.2
9/26/2012	14:00	64.5	9/27/2012	02:00	55.1
9/26/2012	15:00	64.7	9/27/2012	03:00	55.6
9/26/2012	16:00	64.9	9/27/2012	04:00	58.8
9/26/2012	17:00	64.2	9/27/2012	05:00	61.5
9/26/2012	18:00	63.8	9/27/2012	06:00	64.3
9/26/2012	19:00	62.4	9/27/2012	**07:00**	**65.2**
9/26/2012	20:00	61.6	9/27/2012	08:00	64.1
9/26/2012	21:00	60.6	9/27/2012	09:00	63.9

Bolded numbers indicate the loudest hour.

Table 5. Short-Term Noise Measurement Summary

Site ID [1]	Location or Address	Type of Development	Time	Measured Noise Level, L_{eq}(h), dBA	Adjusted Worst-Hour Noise Level, L_{eq}(h), dBA
ST-1	APN: 597-04-126	Undeveloped	16:00	66.2	67
ST-2	14020 Melody Rd	Undeveloped	15:06	56.6	58
ST-3	14024 Peaceful Valley Ranch Rd	Undeveloped	15:20	59.8	60
ST-4	SR-94 and Jamacha Blvd	Church Parking Lot Entrance*	17:56	70.5	71
ST-5	SR-94 and Jamacha Rd	Retail	16:55	70.0	70
ST-6	SR-94 and Steele Canyon Rd	Roadway	16:08	70.2	70
ST-7	SR-94 and Lyons Valley Rd	Undeveloped	18:39	68.3	69
ST-8	SR-94 and Maxfield Rd	Undeveloped	18:12	67.1	68

* Measurement location is approximately 500 feet south of the nearest onsite building.

6.4 Modeled Existing Noise Levels and Calibration

Noise levels were predicted at all receivers, including noise measurement locations, using TNM and various input parameters to compare the predicted traffic noise levels with adjusted measured traffic noise levels at common points.

The purpose of model validation/calibration is to “fine-tune” the prediction model to actual site conditions that are not adequately accounted for by the model. Calibration is performed by algebraically adding a constant, or K-factor, to the noise level calculated in TNM. The magnitude of K-factors is initially determined by the difference between measured and modeled noise levels at specific points. Calibration factors may be positive or negative. Additional factors may be applied based upon the experience and judgment of the noise engineer performing the analysis. The TeNS, Calibrating the Prediction Model section, provides guidance on the application of calibrations. The TeNS states “highway reconstruction projects which substantially alter alignments and profiles of an existing highway are also poor candidates for model calibration.” Additionally, FHWA’s Policy for TNM states “[n]o adjustments should be made for differences of less than 3 dBA” (FHWA 2011).

Noise measurement locations 1 through 3 along the existing SR-94 north and south of Melody Lane were modeled with observed traffic volumes and speeds. Traffic data used in the calibration is shown in Table 6. Based on the traffic noise modeling, differences between measured loudest hour noise levels and the predicted loudest hour noise levels ranged from 1 to 2 dBA. Therefore, no adjustment factor was applied as all results were within a 2-dBA or less difference. No model calibration was performed at short-term measurement locations 4 through 8. Existing measured and modeled noise levels at short-term measurement locations 1 through 3 are compared and the resultant differences shown in Table 7. Existing noise model input and output data are included in Attachment 2.

Table 6. Existing Loudest Hour Traffic Data

Roadway	Segment	Observed Speed	Peak Hour	Autos	MT	HT
SR-94	South of Melody Lane	45	322	289	14	10
	North of Melody Lane	45	322	289	14	10
Melody Lane	West of SR-94	25	7	6	1	0

Table 7. Loudest Hour Noise Level Model Verification

Measurement Location	Measured Noise Level L_{eq} (dBA)	Loudest Hour Noise Level Adjustment	Adjusted Loudest Hour Noise Level L_{eq} (dBA)	Modeled Loudest Hour Noise Level L_{eq} (dBA)	Difference (K-Factor)
ST-1	59.8	0	60	59	-1
ST-2	56.6	1	58	57	-1
ST-3	66.2	1	67	67	0

7.0 Project Impacts

7.1 Predicted Noise Levels – Site Geometry and Traffic

Traffic noise levels were predicted for three future conditions along SR-94 between post mile 20.4 and 21.4: Alternatives 1 through 3. The noise levels modeled at the intersections included the existing and the proposed future configuration. Existing plus future traffic volumes on all study area roadways were taken from the project traffic report (Kimley-Horn 2014). Speeds were developed from posted speed limits and driving the existing roadway alignment. The vehicle mix on SR-94 was assumed to be the same as reported in the *Annual Average Daily Truck Traffic on the California State Highway System* at Lyons Valley Road. The traffic data used is included in Attachment 3. Local streets were conservatively assumed to have the same vehicle mix as SR-94.

Future traffic speeds and vehicle mixes on all roads were assumed the same as those used in the existing conditions. The traffic parameters used for the modeling are discussed in detail in Section 5.4 and peak hour traffic volumes developed from the project traffic report are included in Attachment 3. Receiver and building locations and elevations were taken from topographic survey data provided by the project engineer (Kimley-Horn 2013). Existing and future roadway geometric data were also developed from project design drawings provided by the project engineer (Kimley-Horn 2013). Model input and output data for existing and future conditions are included in Attachments 2 and 3. The modeled receiver locations are shown in Figures A-3 through A-12.1.

7.2 Traffic Noise Impacts between Post Mile 20.4 and 21.4

Predicted noise levels for the three future (2035) conditions are shown in Table 8. Under the Alternative 1, noise levels would range from 44 to 64 dBA L_{eq}, with changes ranging from 0 to 6 dBA.

Under Alternative 2 there are three options, however from an acoustical point of view these options would result in similar impacts with only minor differences in immediate proximity to the JIV. Therefore, the results of the modeling of each alternative have been summarized and the highest potential noise levels have been reported for Alternative 2, regardless of the option. Based on the traffic noise model traffic noise levels would range from 44 to 64 dBA L_{eq}, with changes ranging from 0 to 6 dBA over the existing condition

Under Alternative 3, noise levels would range from 44 to 65 dBA L_{eq}, with changes ranging from 0 to 9 dBA.

The primary cause for increases in horizon (2035) traffic noise levels under all alternatives would be increases in traffic on SR-94 and local roadways and the realignment of SR-94. Modeling was conducted for the horizon year, 2035, based on the project traffic report (Kimley-Horn 2014).

7.3 Traffic Noise Impacts at Improved Intersections

The Proposed Project includes proposed improvements at five intersections along SR-94[1]**:** (1) SR-94/Jamacha Boulevard, (2) SR-94/Jamacha Road, (3) SR-94/Steele Canyon Road, (4) SR-94/Lyons Valley Road, and (5) SR-94/Maxfield Road. The proposed improvements include signalization/signalization modifications, restriping, and additional through/turn lanes. Not all activities would be required at each intersection, rather this represents the range of anticipated activities. The proposed improvements would not, in and of themselves, result in an increase of traffic volumes on SR-94. However, some of the proposed improvements, such as restriping and new lanes, could result in the shifting of traffic closer to noise receivers.

Predicted noise levels for the future (2035) conditions are shown in Table 9. Based on the traffic noise modeling noise levels would range from 39 to 77 dBA L_{eq}, with changes ranging from 2 to 5 dBA. The primary cause for increases in horizon (2035) traffic noise levels under all alternatives would be increases in traffic on SR-94 and local roadways and the minor realignment of traffic lanes at the five intersections. Modeling was conducted for the horizon year, 2035, based on the project traffic report (Kimley-Horn 2014).

[1] / A sixth intersection, SR-94/Melody Road is also included; however, this improvement is subsumed within the larger “access road” improvements.

Table 8. Predicted Traffic Noise Impacts Year 2035 – FHWA/Caltrans Criteria

Receiver ID	Location or Address	Land Use	NAC	Existing dBA L_{eq}	Alternative 1 dBA L_{eq}	Change vs Existing dBA L_{eq}	Alternative 2 dBA L_{eq}	Change vs Existing dBA L_{eq}	Alternative 3 dBA L_{eq}	Change vs Existing dBA L_{eq}
R1	13967 Highway 94	Commercial	E(72)	63	63	0	63	0	63	0
R2	13975 Highway 94	Commercial	E(72)	62	63	1	63	1	63	1
R3	14022 Hillside Dr	Residential	B(67)	53	53	0	53	1	54	1
R4	14017 Hillside Dr	Residential	B(67)	56	57	1	57	1	57	1
R5	14022 Highway 94 A	Residential	B(67)	55	56	1	56	2	57	2
R6	14022 Highway 94 B	Residential	B(67)	62	62	0	62	0	63	1
R7	14019 Highway 94	Commercial	E(72)	64	64	0	64	0	65	1
R8	14075 Short Ct	Residential	B(67)	55	56	1	56	1	56	1
R9	14027 Hillside Dr	Residential	B(67)	56	56	0	56	0	56	0
R10	14024 Highway 94	Residential	B(67)	56	57	1	57	1	57	1
R11[1]	14023 Campo Dr	Residential	B(67)	55	56	1	56	1	56	1
R12[2]	14043 Highway 94	Residential	B(67)	50	51	1	52	2	52	2
R13	14051 Campo Rd	Residential	B(67)	57	58	1	58	1	58	1
R14[3]	14061 Campo Rd	Residential	B(67)	42	44	2	44	2	44	2
R15[2]	14018 Las Palmas Rd	Residential	B(67)	57	58	1	58	1	58	1
R16	14013 Las Palmas Rd	Residential	B(67)	56	57	1	57	1	57	1
R17[4]	14031 Las Palmas Rd	Residential	B(67)	50	53	3	54	4	55	5
R18	14066 Highway 94	Residential	B(67)	53	56	3	57	1	58	5
R19[5]	3023 Calle Mesquite	Residential	B(67)	46	49	3	49	3	51	5
R20[6]	3015 Calle Mesquite	Residential	B(67)	46	50	4	50	4	53	7
R21	3007 Calle Mesquite	Residential	B(67)	47	53	6	53	6	56	9
R22	14024 Peaceful Valley Ranch Rd	Fire Station	B(67)	58	61	3	61	3	59	1
R23	14102 Peaceful Valley Ranch Rd	Residential	B(67)	42	44	2	44	2	44	2
R24	44114 Campo Rd	Residential	B(67)	46	48	2	47	1	47	1
R25	Jamul Reservation Church	Religious	C(67)	46	47	1	48	2	48	2

Table 9. Assessment of Intersection Improvements

Receiver	Land Use	NAC	Existing dBA L_{eq}	2035 Build dBA L_{eq}	2035 Change vs Existing dBA L_{eq}
R-26	Church	67	62	64	2
R-27	Vacant Commercial	--	70	74	4
R-28	Retail	--	67	70	3
R-29	Retail	--	65	68	3
R-30	Retail	--	73	77	4
R-31	Retail	--	73	76	3
R-32	Retail	--	67	71	4
R-33	Retail	--	67	72	5
R-34	Industrial	--	66	70	4
R-35	Dinning	72	56	60	4
R-36	Dinning	72	53	58	5
R-37	Retail	--	52	56	4
R-38	Sports Field	72	49	53	4
R-39	Residential	67	60	63	3
R-40	Residential	67	59	62	3
R-41	Residential	67	59	62	3
R-42	Retail	--	69	72	3
R-43	Residential	67	55	58	3
R-44	Retail	--	68	71	3
R-45	Retail	--	68	72	4
R-46	Residential	67	51	54	3
R-47	Retail	--	70	73	3
R-48	Retail	--	66	69	3
R-49	Retail	--	61	63	2
R-50	Residential	67	49	53	4
R-51	Residential	67	56	59	3
R-52	Residential	67	36	39	3
R-53	Retail	--	68	71	3
R-54	Day Care	67	56	60	4
R-55	Retail	--	59	62	3
R-56	Residential	67	53	57	4
R-57	Residential	67	47	52	5
R-58	Retail	--	57	62	5
R-59	Retail	--	39	43	4

8.0 Construction Noise

8.1 Applicable Standards

8.1.1 California Department of Transportation

The Protocol requires a noise assessment using a reasonable analysis method to determine whether construction would result in adverse construction noise impacts (Caltrans 2011).

As part of the specifications for construction contracts, the Caltrans requirements relative to the allowable noise emission of equipment must be used on this project. Sound control must conform to the provisions in Section 14-8.02, "Noise Control," of the 2010 Standard Specifications.

1) Do not exceed 86 dBA L_{max} at 50 feet from the job site activities from 9 p.m. to 6 a.m. Equip an internal combustion engine with the manufacturer-recommended muffler. Do not operate an internal combustion engine on the job site without the appropriate muffler.

8.2 Impacts

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

Under load conditions, diesel engine noise levels may be 85 to 90 dBA at a distance of 50 feet from the equipment (FHWA 2006). Occasional pavement breaking would be performed, which would generate noise levels of 90 dBA at 50 feet from the equipment (FHWA 2006). Construction equipment noise is considered a "point source" and, as described in Section 3.0, attenuates over distance at a rate of 6 dBA for each doubling of distance. Thus, a noise level of 85 dBA at 50 feet would be 79 dBA at 100 feet and 73 dBA at 200 feet from the source. Road Construction Noise Model data files are included in Attachment 4.

During excavating, grading, and paving operations, equipment moves to different locations and goes through varying load cycles, and there are breaks for the operators and for nonequipment tasks, such as measurement. Although maximum noise levels may be 85 to 90 dBA at a distance of 50 feet during most construction activities, hourly average noise levels near the edge of the project site are anticipated to be 75 dBA L_{eq} or less.

Under all alternatives, the nearest receiver is the residence represented by R-6, which is approximately 60 feet from the center of proposed construction activities at the north end of the project. Hourly construction noise levels at this distance would attenuate to 73 dBA L_{eq} or less and maximum

construction noise during pavement breaking activities, which would be located at greater distances, would attenuate to 84 dBA L_{max} or less. Therefore, no construction-related noise impacts would occur from diesel engine noise or pavement-breaking activities associated with development of the Proposed Project.

Construction at the intersections along SR-94 would be similar as described above, however activities at each intersection would be shorter in duration than the improvements in proximity to the JIV. Based on a site visit the nearest sensitive receiver to the SR-94/Jamacha Boulevard intersection is a residential receiver approximately 1,500 feet to the southwest (see Figure A-3, in Attachment 1). There is one Category C receiver near the SR-94/Jamacha Road intersection (see Figure A-4 in Attachment 1), the TGI Friday's outdoor dining area. All other land uses surrounding this intersection are commercial retail. The nearest sensitive receivers to the SR-94/Steele Canyon Road intersection are a residence approximately 100 feet to the southwest of the intersection and the next nearest is a residence approximately 100 feet north of the westernmost limits of the improvements (see Figure A-5 in Attachment 1). The nearest sensitive receiver to the SR-94/Lyons Valley Road intersection is the Taproot Preschool Montessori at approximately 135 feet to the southeast (see Figure A-6, in Attachment 1). The nearest sensitive receiver to the SR-94/Maxfield Road intersection is a residence approximately 275 feet to the southwest (see Figure A-7 in Attachment 1). The nearest of the receivers is approximately 100 feet from construction activity, at distances of 100 feet or greater construction noise levels would attenuate to 68 dBA L_{eq} or less while maximum noise levels would attenuate to 80 dBA L_{max} or less.

Given the anticipated construction noise level, construction activities would be heard at nearby receivers and may cause occasional speech disruption, specifically during times of pavement breaking. Thus, construction-related noise would be considered a temporary nuisance and measures to minimize construction noise impacts discussed in Section 8.3 will be included as design standards in the construction contracts.

8.3 Construction Noise Abatement

The following measures are recommended to avoid or minimize construction noise impacts:

- Each internal combustion engine will be equipped with a muffler of a type recommended by the manufacturer. No internal combustion engine will be operated on the project without said muffler.
- Staging areas will be located at least 250 feet from occupied residences. Work in staging areas that generate loud noises, such as equipment maintenance, will not be allowed on-site between the hours of 10:00 p.m. and 7:00 a.m.
- If traffic control and construction signs that require power for lighting or flashing are located within 500 feet of residential units, the source of power will be batteries, solar cells, or another quiet source. Gas- or diesel-fueled internal combustion engines will not be used in these instances.

- Except as required for safety, pavement breaking activities will be restricted to the hours 7:30 a.m. to 7:00 p.m. Monday through Friday and will not be allowed on Saturdays, Sundays, or holidays.

9.0 References

California Department of Transportation (Caltrans)

2011 Traffic Noise Analysis Protocol for New Highway Construction, Reconstruction, and Retrofit Barrier Projects. May.

2013 Technical Noise Supplement. September.

2012 2011 Annual Average Daily Truck Traffic on the California State Highway System.

Code of Federal Regulations (CFR)

2010 Title 23 CFR Part 772, Procedures for Abatement of Highway Traffic Noise and Construction Noise, July 13.

Federal Highway Administration (FHWA)

2011 Highway Traffic Noise: Analysis and Abatement Guidance, December.

2006 Road Construction Noise Model, Version 1, February 2.

2011 Highway Traffic Noise Analysis and Abatement Policy and Guidance. December.

Kimley-Horn and Associates, Inc.

2014 Draft Traffic Impact Study State Route 94 Improvement Project, March.

2013 State Route 94 Jamul Indian Village Access Road Project Preliminary Engineering Plans.

San Diego Association of Governments (SANDAG)

2014 SANDAG Traffic Information Forecast Center, 2008 and 2035 roadway information data sets. Available at: http://gis.sandag.org/tficsr12/

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ATTACHMENTS

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ATTACHMENT 1

Detailed Construction Plans and Receiver Locations

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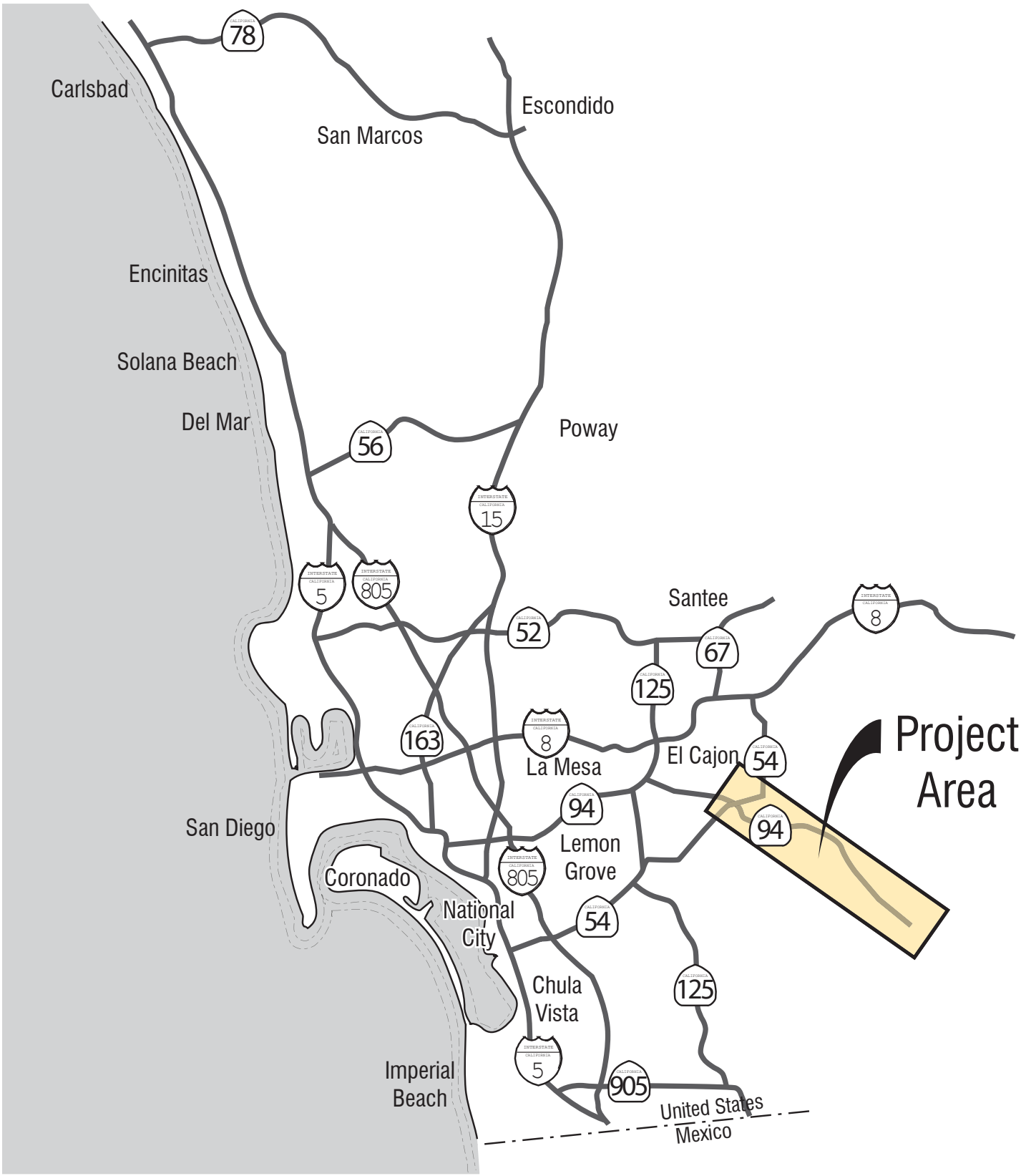
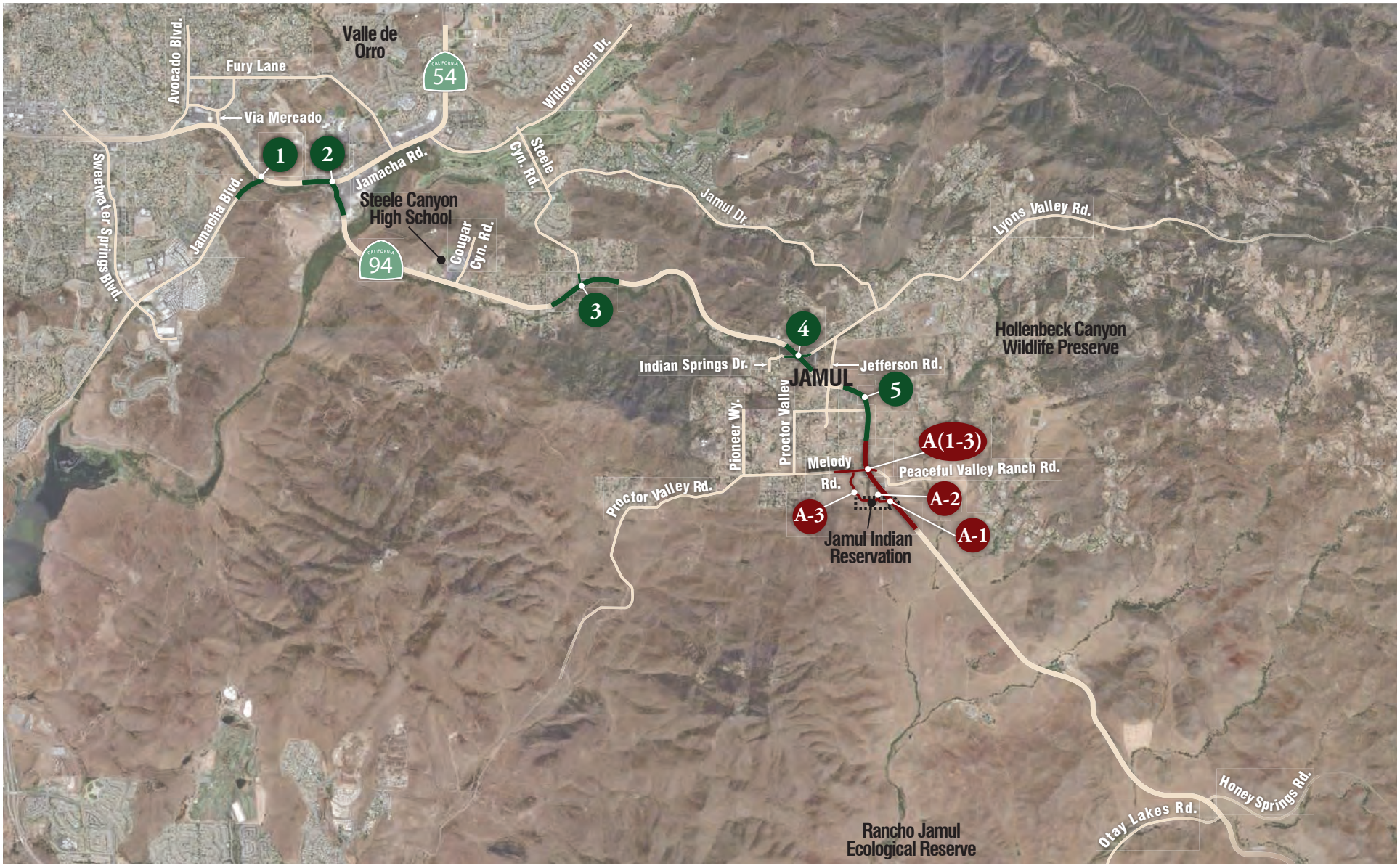


NOT TO SCALE

FIGURE A-1
Regional Location Map
SR 94 Improvements



LEGEND

- # Intersection Improvement Options
- # Access Improvements Options

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FIGURE A-2
Vicinity Map
SR 94 Improvements

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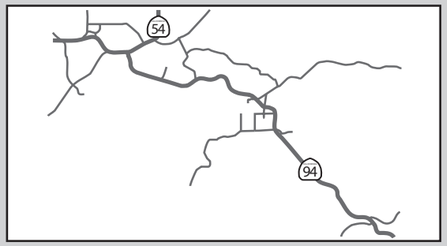


LEGEND

- Culvert Widening/Replacement
- Local Street Improvement
- Outside Mainline Shoulder Widening
- Outside Lane Widening
- Recommended Soundwall (S)
- Retaining Wall
- Grading Limits (Cut/Fill)
- Existing Right-of-way
- Existing Wall
- Wall Division
- Existing Bioswale
- Proposed Bioswale
- Proposed Permanent Easement
- Proposed Temporary Easement
- Proposed Acquisition Area
- Noise Measurement
- Noise Receptors (R)
- Traffic Noise Model Calibration Site
- Bus Stop to be Upgraded

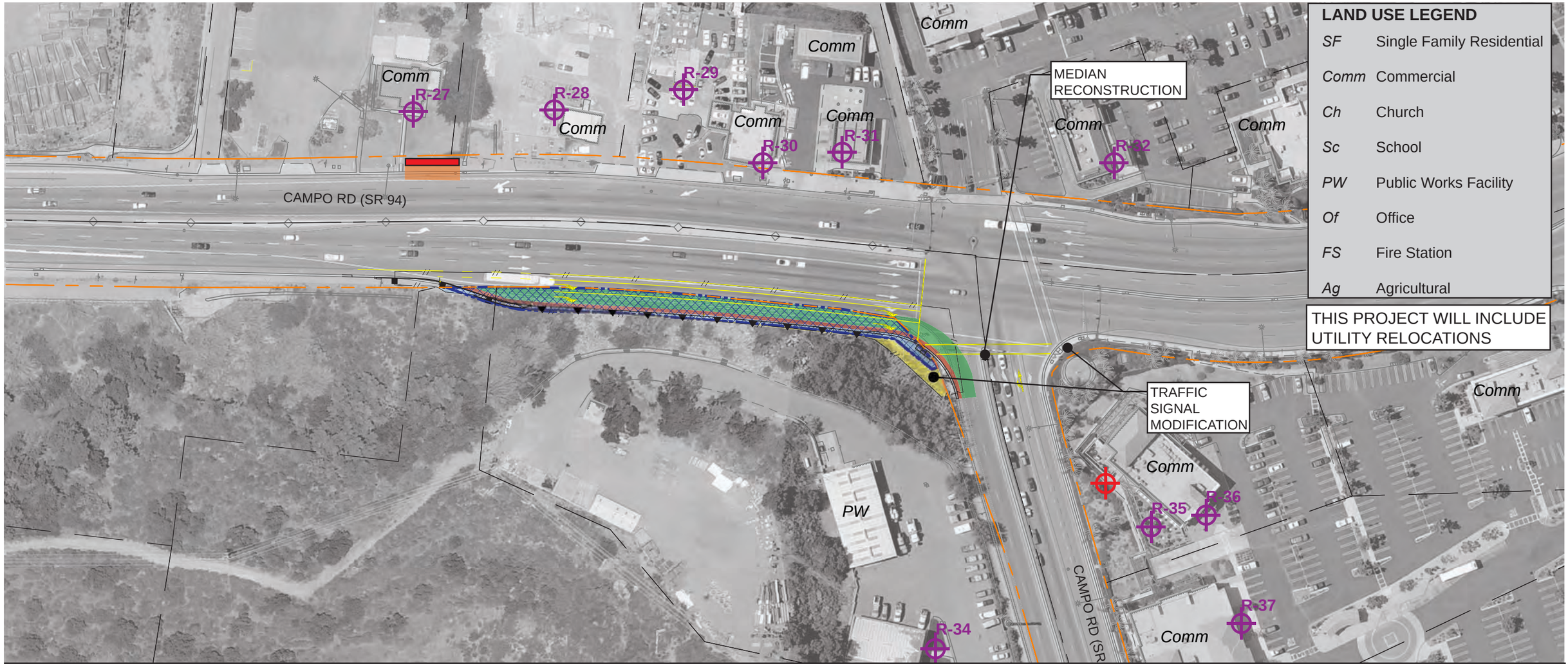
LAND USE LEGEND

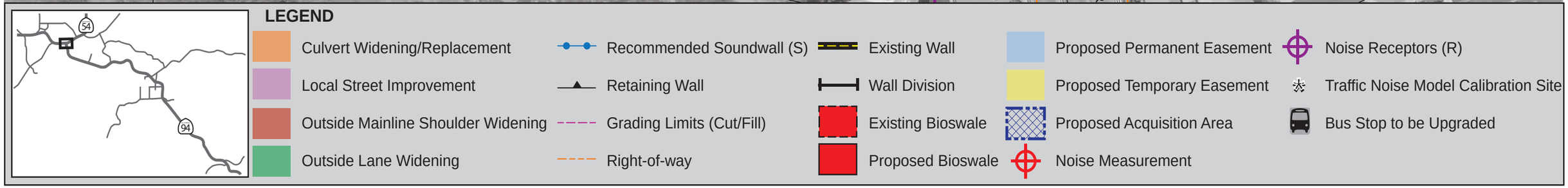
SF	Single Family Residential
Comm	Commercial
Ch	Church
Sc	School
PW	Public Works Facility
Of	Office
FS	Fire Station
Ag	Agricultural

THIS PROJECT WILL INCLUDE UTILITY RELOCATIONS

200 100 0 200

FIGURE A-3
Common Design Features:
SR 94 (Campo Rd) and Jamacha Boulevard
SR 94 Improvements





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200 100 0 200

FIGURE A-4
Common Design Features:
SR 94 (Campo Road) and Jamacha Road
SR 94 Improvements

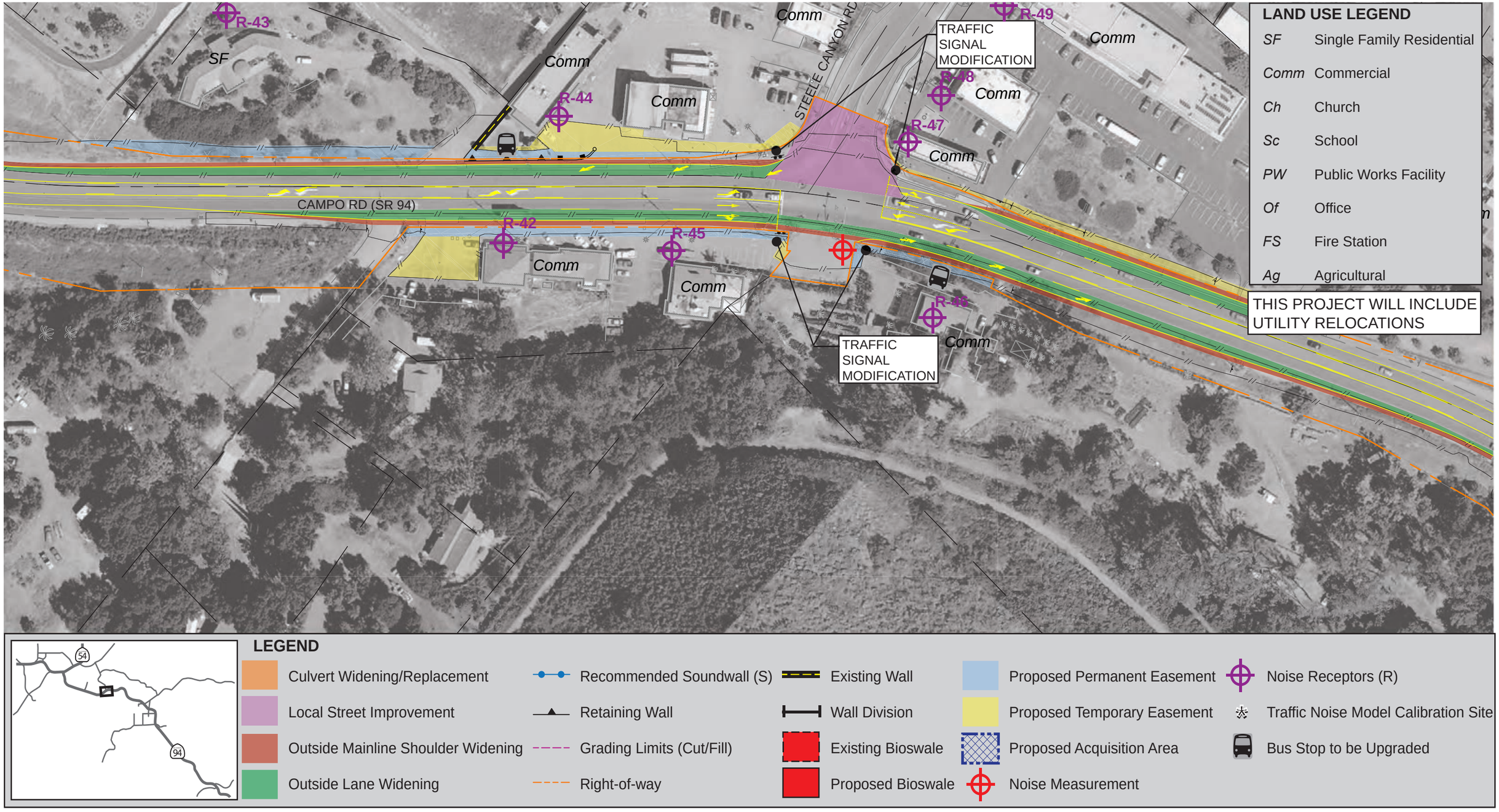

FIGURE A-5
Common Design Features:
SR 94 (Campo Road) and Steele Canyon Road
SR 94 Improvements

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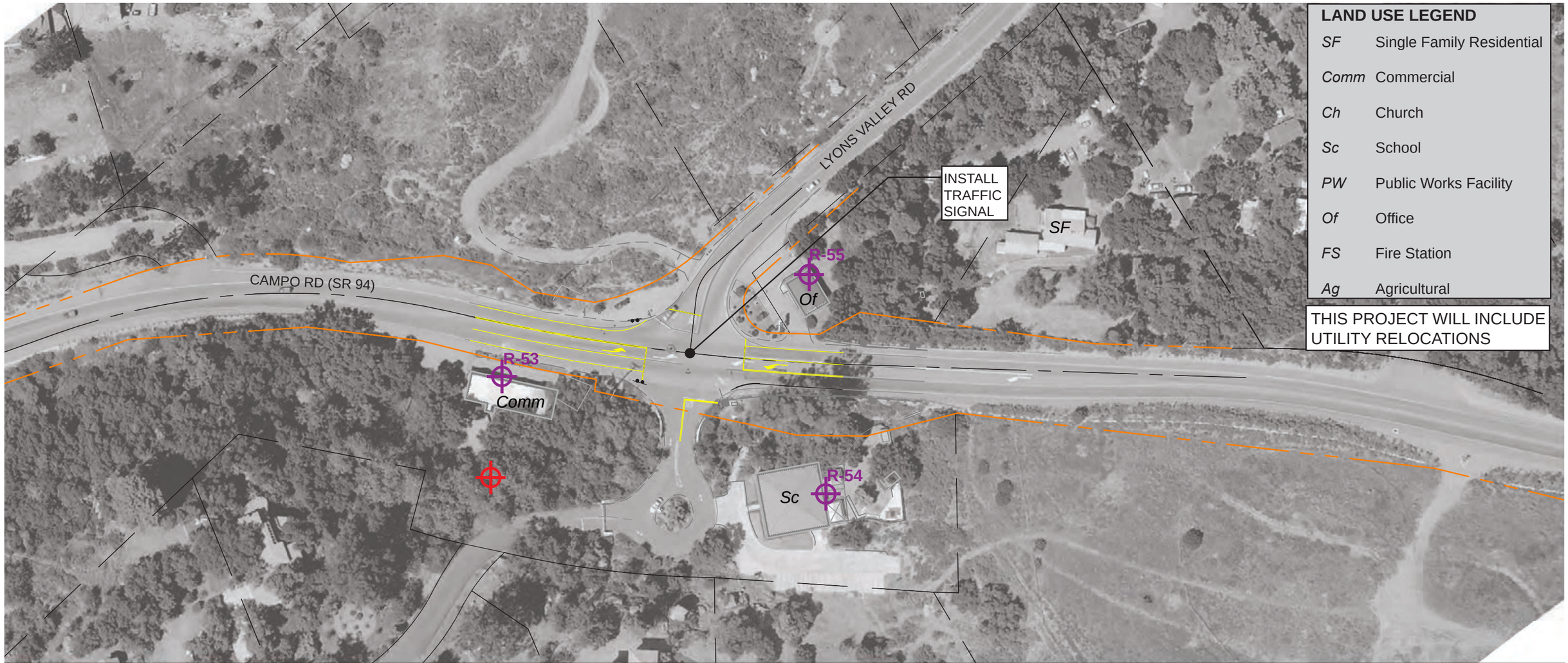
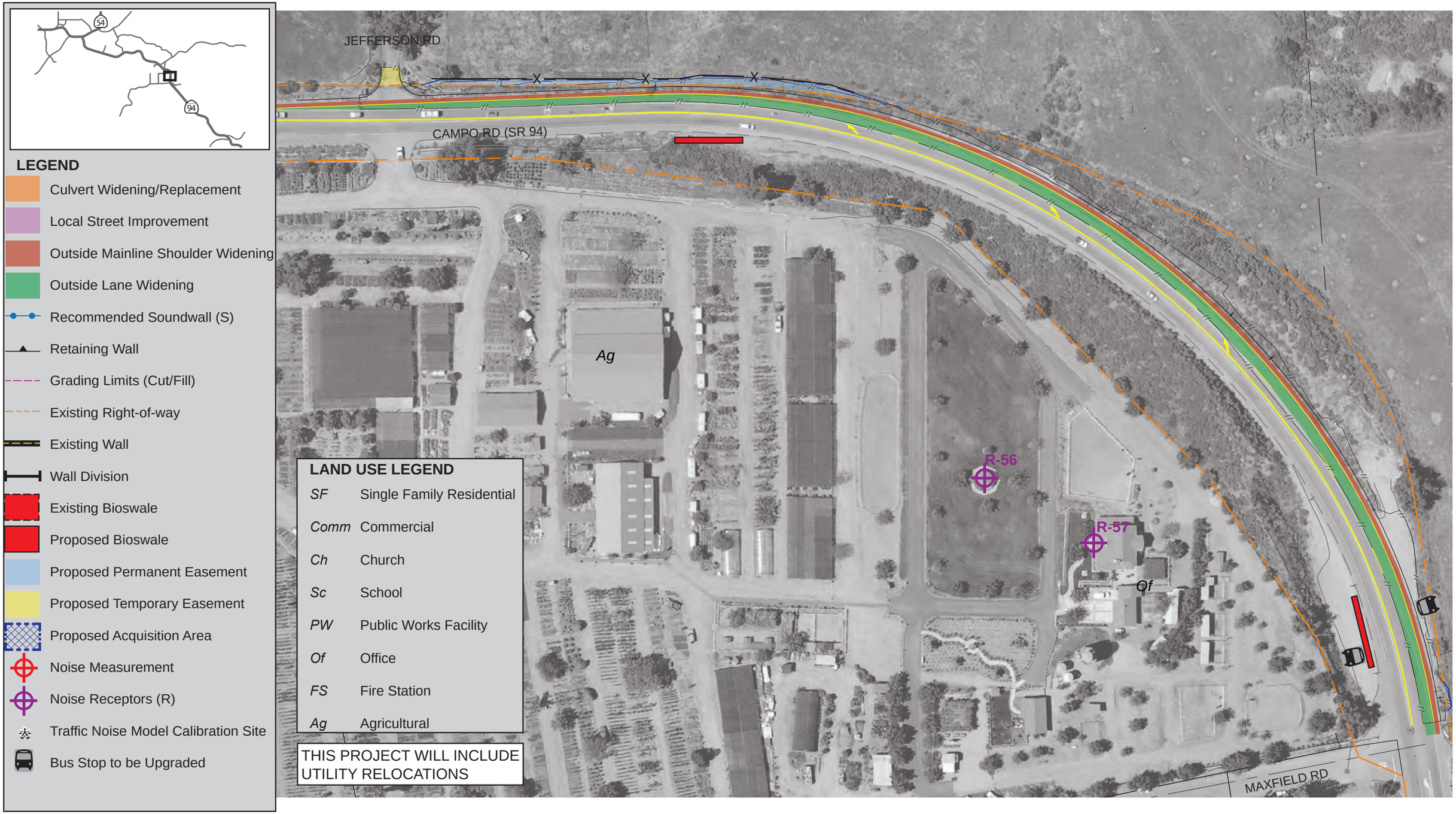


LEGEND

- Culvert Widening/Replacement
- Local Street Improvement
- Outside Mainline Shoulder Widening
- Outside Lane Widening
- Recommended Soundwall (S)
- Retaining Wall
- Grading Limits (Cut/Fill)
- Right-of-way
- Existing Wall
- Wall Division
- Existing Bioswale
- Proposed Bioswale
- Proposed Permanent Easement
- Proposed Temporary Easement
- Proposed Acquisition Area
- Noise Measurement
- Noise Receptors (R)
- Traffic Noise Model Calibration Site
- Bus Stop to be Upgraded

200 100 0 200

FIGURE A-6
Common Design Features:
SR 94 (Campo Road) and Lyons Valley Road
SR 94 Improvements



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200 100 0 200

FIGURE A-7
Common Design Features:
SR 94 (Campo Road) and Maxfield Road
SR 94 Improvements

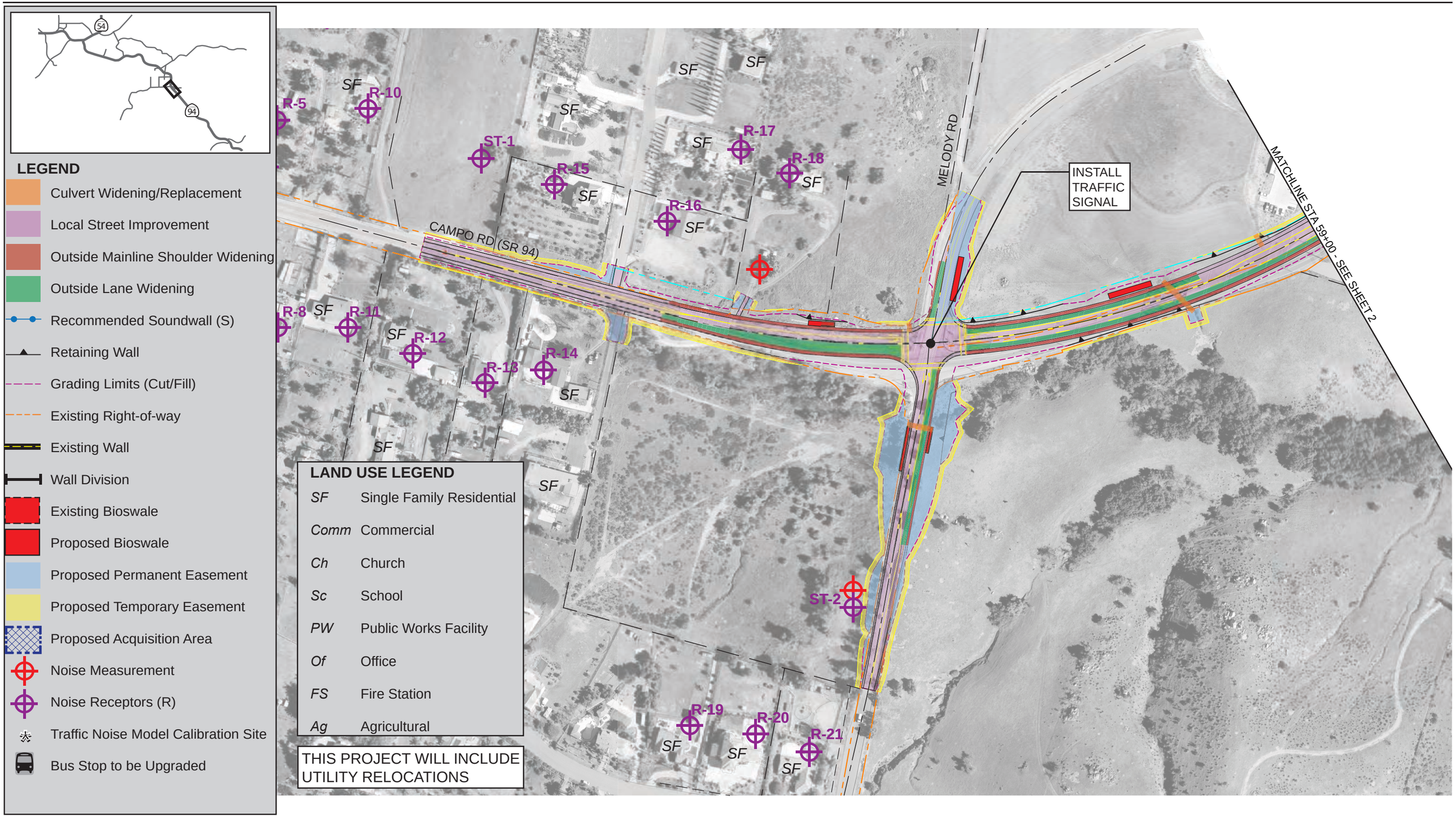
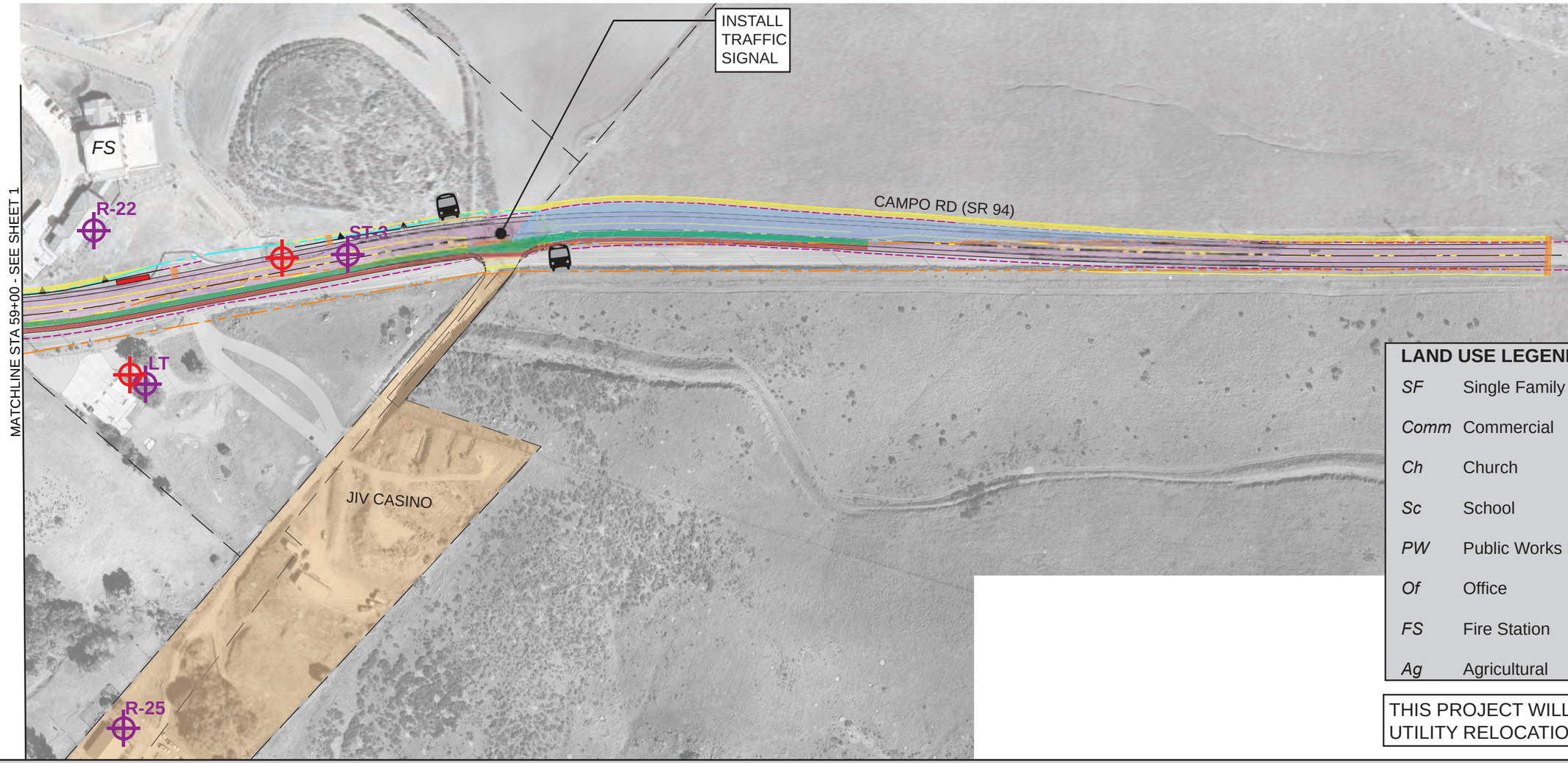


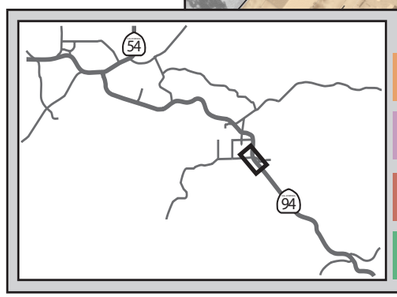
FIGURE A-8.0
Unique Design Features of Access Road:
Alternative 1 Sheet 1
SR 94 Improvements



LAND USE LEGEND

SF	Single Family Residential
Comm	Commercial
Ch	Church
Sc	School
PW	Public Works Facility
Of	Office
FS	Fire Station
Ag	Agricultural

THIS PROJECT WILL INCLUDE UTILITY RELOCATIONS



LEGEND

- Culvert Widening/Replacement
- Local Street Improvement
- Outside Mainline Shoulder Widening
- Outside Lane Widening
- Recommended Soundwall (S)
- Retaining Wall
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- Existing Bioswale
- Proposed Bioswale
- Proposed Permanent Easement
- Proposed Temporary Easement
- Proposed Acquisition Area
- Noise Measurement
- Noise Receptors (R)
- Traffic Noise Model Calibration Site
- Bus Stop to be Upgraded

400 200 0 400

FIGURE A-8.1
Unique Design Features of Access Road:
Alternative 1 Sheet 2
SR 94 Improvements

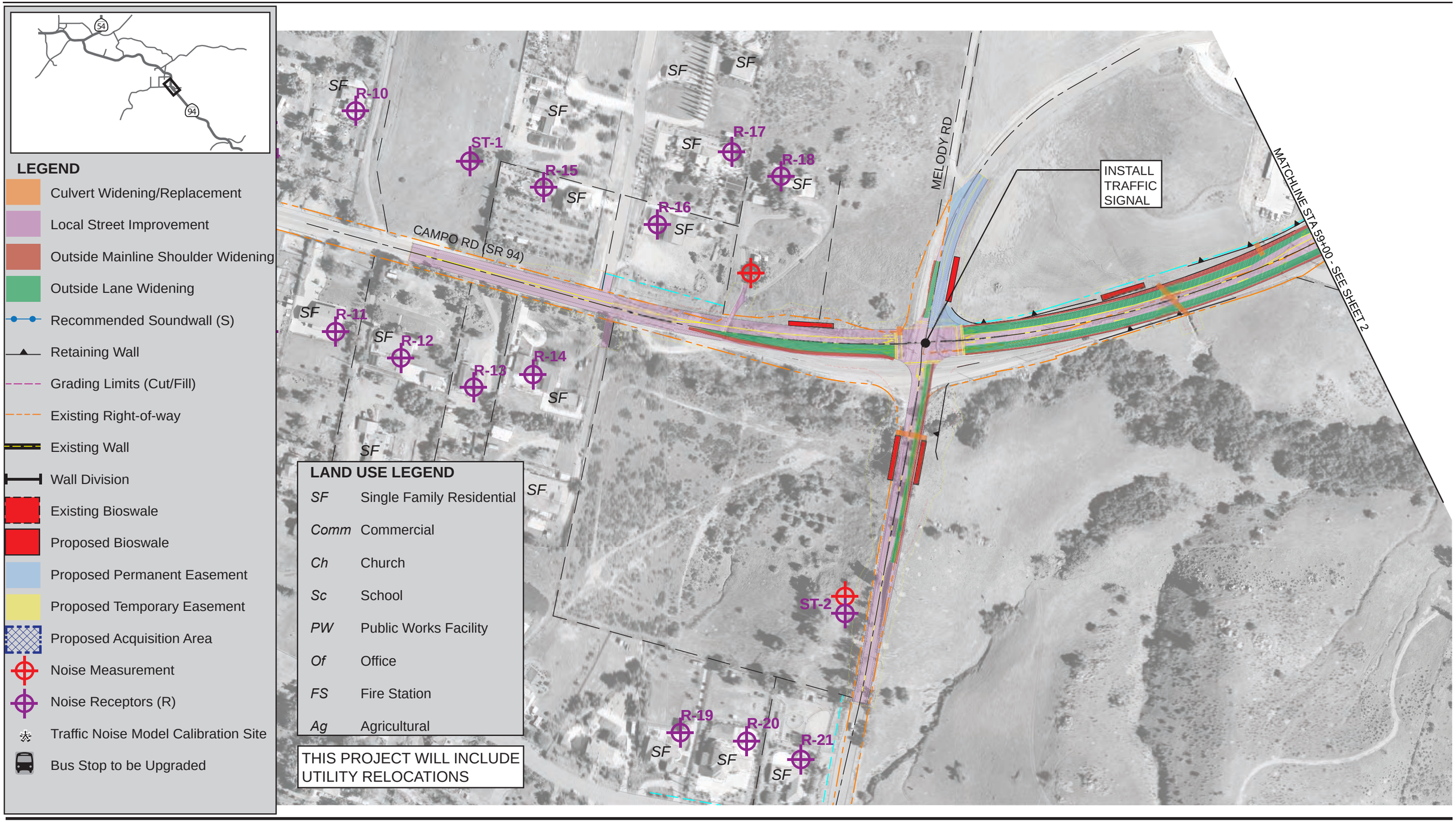

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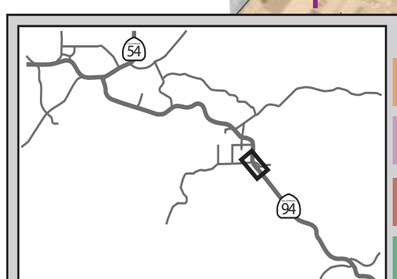
FIGURE A-9.0
Unique Design Features of Access Road: Alternative 2A Sheet 1
SR 94 Improvements



LEGEND

- Culvert Widening/Replacement
- Local Street Improvement
- Outside Mainline Shoulder Widening
- Outside Lane Widening
- Recommended Soundwall (S)
- Retaining Wall
- Grading Limits (Cut/Fill)
- Right-of-way
- Existing Wall
- Wall Division
- Existing Bioswale
- Proposed Bioswale
- Proposed Permanent Easement
- Proposed Temporary Easement
- Proposed Acquisition Area
- Noise Measurement
- Noise Receptors (R)
- Traffic Noise Model Calibration Site
- Bus Stop to be Upgraded

400 200 0 400

FIGURE A-9.1
Unique Design Features of Access Road: Alternative 2A Sheet 2
SR 94 Improvements

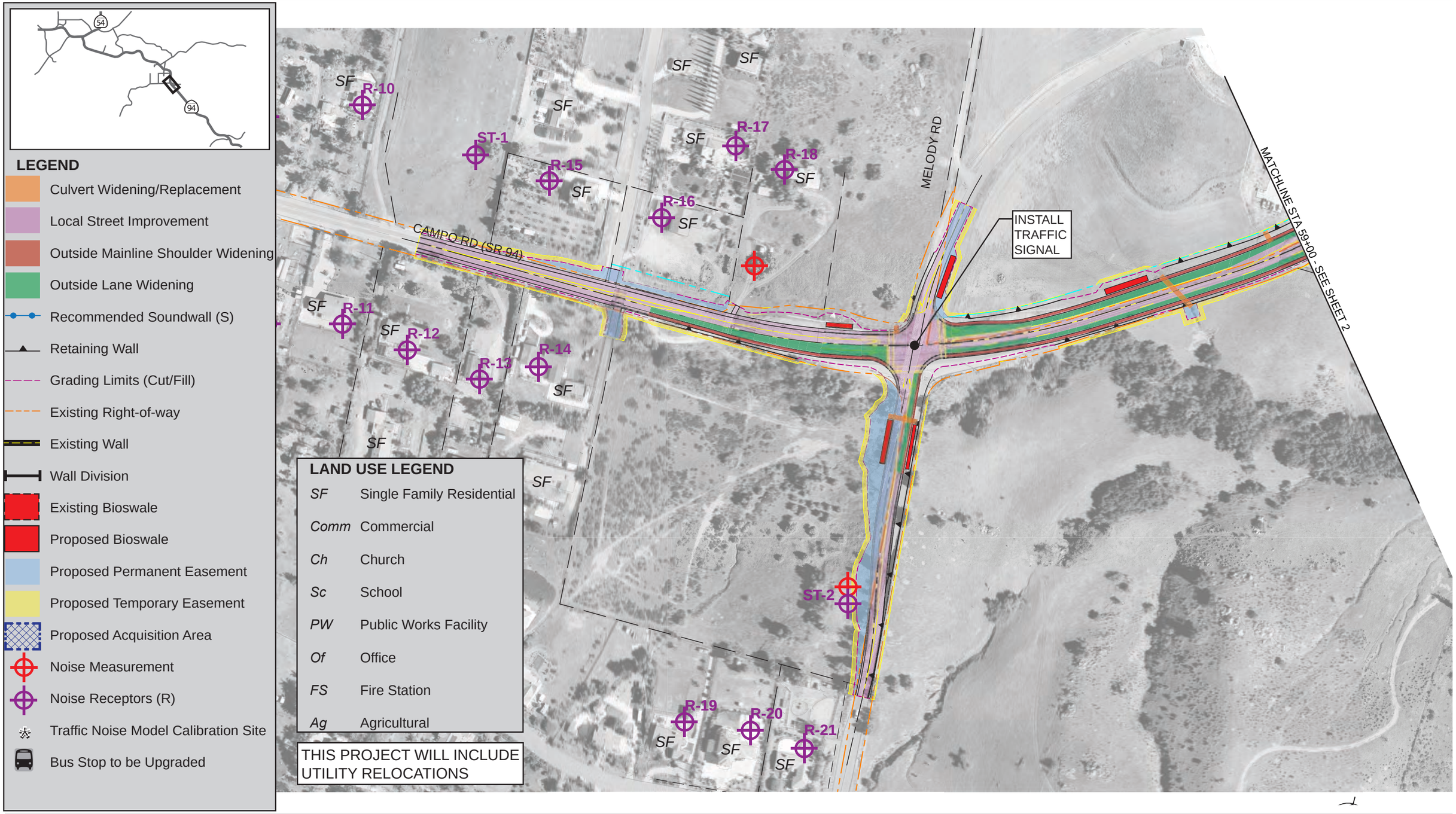


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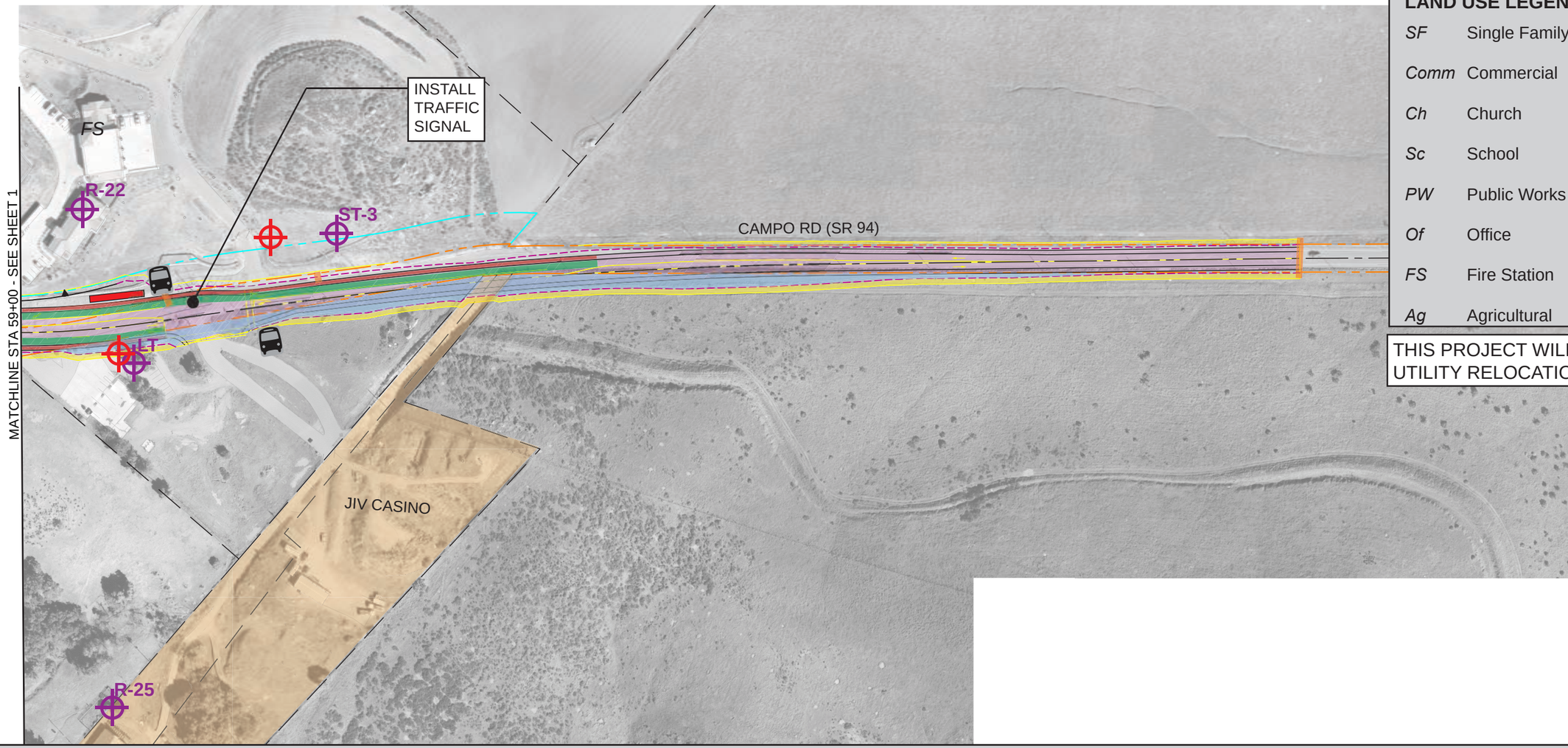
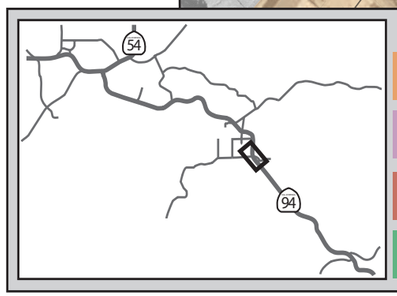
FIGURE A-10.0
Unique Design Features of Access Road: Alternative 2B Sheet 1
SR 94 Improvements



LAND USE LEGEND

SF	Single Family Residential
Comm	Commercial
Ch	Church
Sc	School
PW	Public Works Facility
Of	Office
FS	Fire Station
Ag	Agricultural

THIS PROJECT WILL INCLUDE UTILITY RELOCATIONS

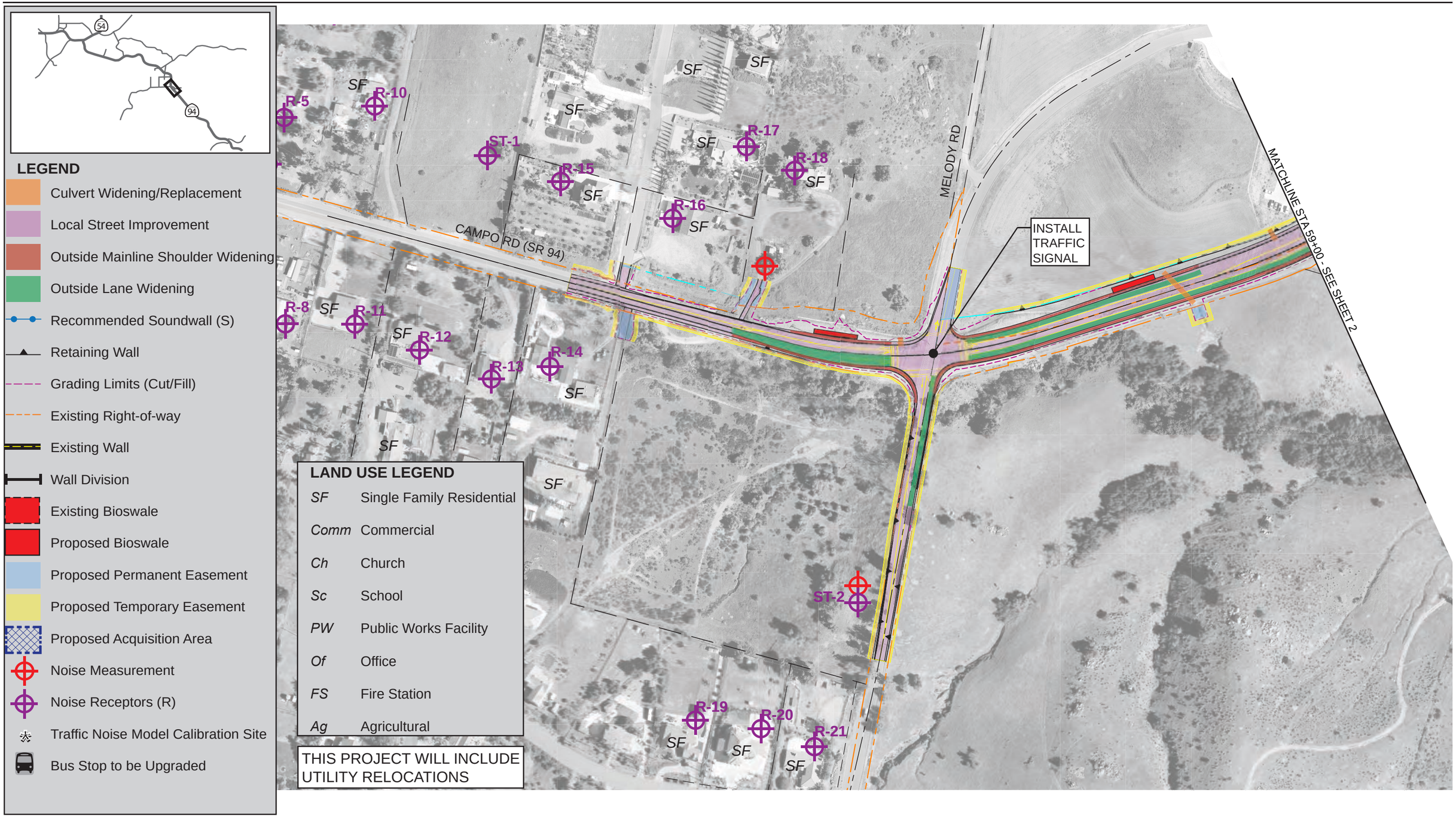


LEGEND

- Culvert Widening/Replacement
- Local Street Improvement
- Outside Mainline Shoulder Widening
- Outside Lane Widening
- Recommended Soundwall (S)
- Retaining Wall
- Grading Limits (Cut/Fill)
- Right-of-way
- Existing Wall
- Wall Division
- Existing Bioswale
- Proposed Bioswale
- Proposed Permanent Easement
- Proposed Temporary Easement
- Proposed Acquisition Area
- Noise Measurement
- Noise Receptors (R)
- Traffic Noise Model Calibration Site
- Bus Stop to be Upgraded

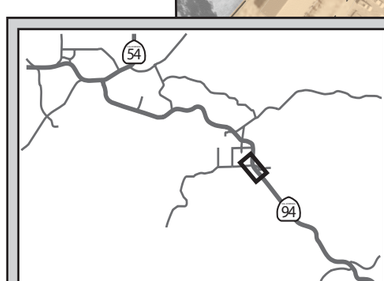
400 200 0 400

FIGURE A-10.1
Unique Design Features of Access Road: Alternative 2B Sheet 2
SR 94 Improvements



400 200 0 400

FIGURE A-11.0
Unique Design Features of Access Road: Alternative 2C Sheet 1
SR 94 Improvements



LEGEND

- Culvert Widening/Replacement
- Local Street Improvement
- Outside Mainline Shoulder Widening
- Outside Lane Widening
- Recommended Soundwall (S)
- Retaining Wall
- Grading Limits (Cut/Fill)
- Right-of-way
- Existing Wall
- Wall Division
- Existing Bioswale
- Proposed Bioswale
- Proposed Permanent Easement
- Proposed Temporary Easement
- Proposed Acquisition Area
- Noise Measurement
- Noise Receptors (R)
- Traffic Noise Model Calibration Site
- Bus Stop to be Upgraded

400 200 0 400

FIGURE A-11.1
Unique Design Features of Access Road:
Alternative 2C Sheet 2
SR 94 Improvements

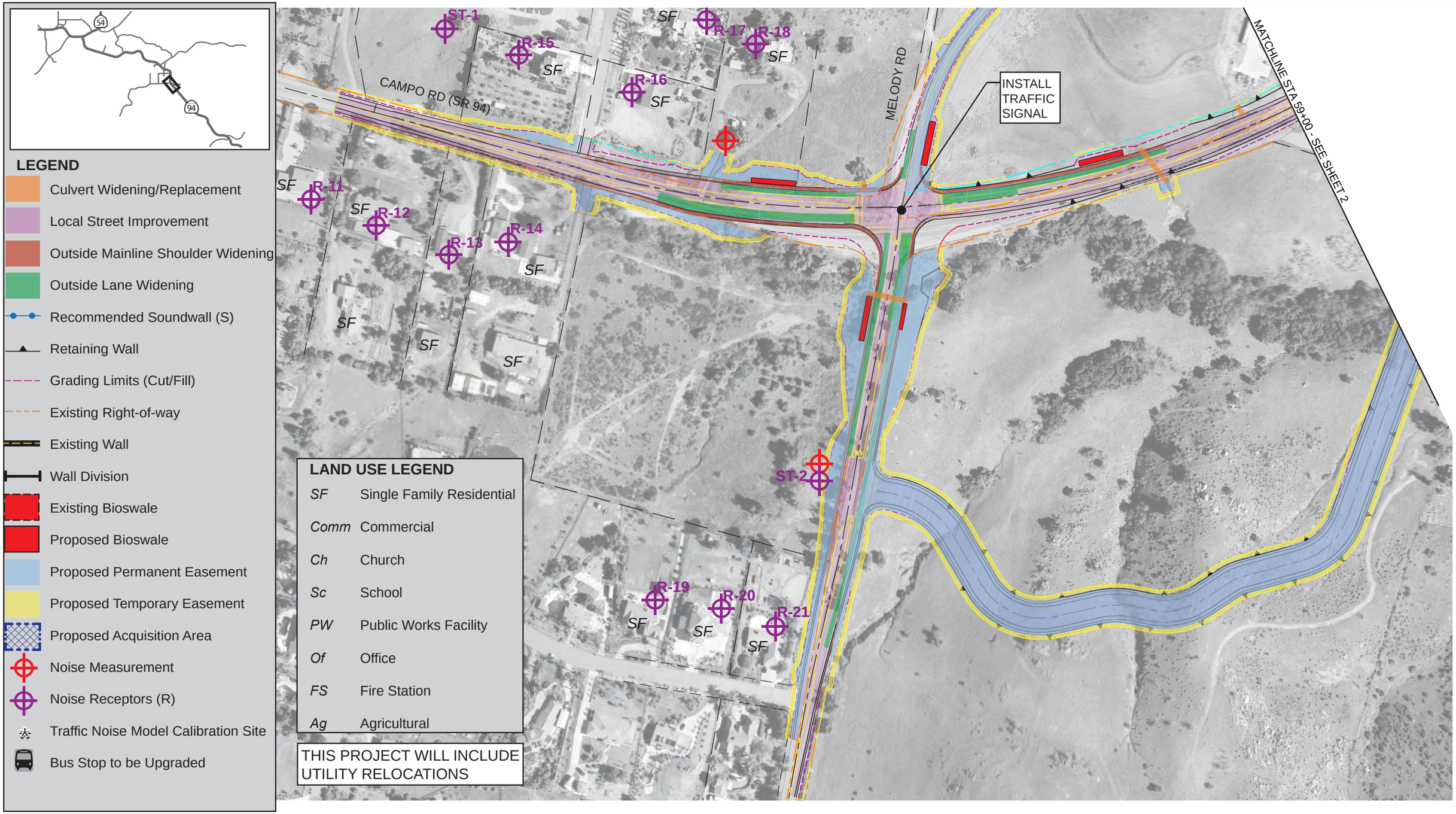
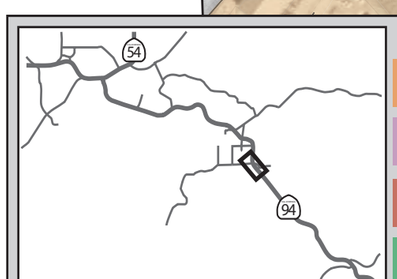


FIGURE A-12.0
Unique Design Features of Access Road: Alternative 3 Sheet 1
SR 94 Improvements

LAND USE LEGEND

SF	Single Family Residential
Comm	Commercial
Ch	Church
Sc	School
PW	Public Works Facility
Of	Office
FS	Fire Station
Ag	Agricultural

THIS PROJECT WILL INCLUDE UTILITY RELOCATIONS



LEGEND

- Culvert Widening/Replacement
- Local Street Improvement
- Outside Mainline Shoulder Widening
- Outside Lane Widening
- Recommended Soundwall (S)
- Retaining Wall
- Grading Limits (Cut/Fill)
- Right-of-way
- Existing Wall
- Wall Division
- Existing Bioswale
- Proposed Bioswale
- Proposed Permanent Easement
- Proposed Temporary Easement
- Proposed Acquisition Area
- Noise Measurement
- Noise Receptors (R)
- Traffic Noise Model Calibration Site
- Bus Stop to be Upgraded

400 200 0 400

FIGURE A-12.1
Unique Design Features of Access Road: Alternative 3 Sheet 2
SR 94 Improvements

ATTACHMENT 2

Noise Measurement Data

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Site	Date	Time	Duration	Leq		
0	26Sep 12	10:00:00	900	63.5	2238721	2.01E+09
0	26Sep 12	10:15:00	900	63.2	2089296	1.88E+09
0	26Sep 12	10:30:00	900	63.7	2344229	2.11E+09
0	26Sep 12	10:45:00	900	64.3	2691535	2.42E+09
0	26Sep 12	11:00:00	900	64.3	2691535	2.42E+09
0	26Sep 12	11:15:00	900	63.8	2398833	2.16E+09
0	26Sep 12	11:30:00	900	63.9	2454709	2.21E+09
0	26Sep 12	11:45:00	900	65.2	3311311	2.98E+09
0	26Sep 12	12:00:00	900	64.5	2818383	2.54E+09
0	26Sep 12	12:15:00	900	63.1	2041738	1.84E+09
0	26Sep 12	12:30:00	900	64.4	2754229	2.48E+09
0	26Sep 12	12:45:00	900	63.9	2454709	2.21E+09
0	26Sep 12	13:00:00	900	63.7	2344229	2.11E+09
0	26Sep 12	13:15:00	900	64.3	2691535	2.42E+09
0	26Sep 12	13:30:00	900	64.6	2884032	2.60E+09
0	26Sep 12	13:45:00	900	64.6	2884032	2.60E+09
0	26Sep 12	14:00:00	900	64	2511886	2.26E+09
0	26Sep 12	14:15:00	900	64.7	2951209	2.66E+09
0	26Sep 12	14:30:00	900	64.7	2951209	2.66E+09
0	26Sep 12	14:45:00	900	64.6	2884032	2.60E+09
0	26Sep 12	15:00:00	900	64.5	2818383	2.54E+09
0	26Sep 12	15:15:00	900	64.7	2951209	2.66E+09
0	26Sep 12	15:30:00	900	65.5	3548134	3.19E+09
0	26Sep 12	15:45:00	900	64.1	2570396	2.31E+09
0	26Sep 12	16:00:00	900	64.9	3090295	2.78E+09
0	26Sep 12	16:15:00	900	65	3162278	2.85E+09
0	26Sep 12	16:30:00	900	64.9	3090295	2.78E+09
0	26Sep 12	16:45:00	900	64.8	3019952	2.72E+09
0	26Sep 12	17:00:00	900	64.3	2691535	2.42E+09
0	26Sep 12	17:15:00	900	63.8	2398833	2.16E+09
0	26Sep 12	17:30:00	900	65	3162278	2.85E+09
0	26Sep 12	17:45:00	900	63.7	2344229	2.11E+09

0	26Sep 12	18:00:00	900	64.3	2691535	2.42E+09
0	26Sep 12	18:15:00	900	63.6	2290868	2.06E+09
0	26Sep 12	18:30:00	900	63.8	2398833	2.16E+09
0	26Sep 12	18:45:00	900	63.3	2137962	1.92E+09
0	26Sep 12	19:00:00	900	62.8	1905461	1.71E+09
0	26Sep 12	19:15:00	900	62.7	1862087	1.68E+09
0	26Sep 12	19:30:00	900	61.9	1548817	1.39E+09
0	26Sep 12	19:45:00	900	62	1584893	1.43E+09
0	26Sep 12	20:00:00	900	61.7	1479108	1.33E+09
0	26Sep 12	20:15:00	900	61.3	1348963	1.21E+09
0	26Sep 12	20:30:00	900	61.9	1548817	1.39E+09
0	26Sep 12	20:45:00	900	61.6	1445440	1.30E+09
0	26Sep 12	21:00:00	900	60.4	1096478	9.87E+08
0	26Sep 12	21:15:00	900	59.8	954993	8.59E+08
0	26Sep 12	21:30:00	900	61.3	1348963	1.21E+09
0	26Sep 12	21:45:00	900	60.8	1202264	1.08E+09
0	26Sep 12	22:00:00	900	61.9	1548817	1.39E+09
0	26Sep 12	22:15:00	900	59.5	891251	8.02E+08
0	26Sep 12	22:30:00	900	60.1	1023293	9.21E+08
0	26Sep 12	22:45:00	900	59.5	891251	8.02E+08
0	26Sep 12	23:00:00	900	58.2	660693	5.95E+08
0	26Sep 12	23:15:00	900	59.8	954993	8.59E+08
0	26Sep 12	23:30:00	900	57.5	562341	5.06E+08
0	26Sep 12	23:45:00	900	61	1258925	1.13E+09
0	27Sep 12	0:00:00	900	60.3	1071519	9.64E+08
0	27Sep 12	0:15:00	900	57.3	537032	4.83E+08
0	27Sep 12	0:30:00	900	57.2	524807	4.72E+08
0	27Sep 12	0:45:00	900	56.3	426580	3.84E+08
0	27Sep 12	1:00:00	900	56.1	407380	3.67E+08
0	27Sep 12	1:15:00	900	55.4	346737	3.12E+08
0	27Sep 12	1:30:00	900	54.1	257040	2.31E+08
0	27Sep 12	1:45:00	900	54.9	309030	2.78E+08
0	27Sep 12	2:00:00	900	56.2	416869	3.75E+08

0	27Sep 12	2:15:00	900	54.2	263027	2.37E+08
0	27Sep 12	2:30:00	900	55	316228	2.85E+08
0	27Sep 12	2:45:00	900	54.7	295121	2.66E+08
0	27Sep 12	3:00:00	900	54.1	257040	2.31E+08
0	27Sep 12	3:15:00	900	55.6	363078	3.27E+08
0	27Sep 12	3:30:00	900	56.3	426580	3.84E+08
0	27Sep 12	3:45:00	900	56	398107	3.58E+08
0	27Sep 12	4:00:00	900	57.6	575440	5.18E+08
0	27Sep 12	4:15:00	900	57.8	602560	5.42E+08
0	27Sep 12	4:30:00	900	60.4	1096478	9.87E+08
0	27Sep 12	4:45:00	900	59	794328	7.15E+08
0	27Sep 12	5:00:00	900	59.5	891251	8.02E+08
0	27Sep 12	5:15:00	900	62	1584893	1.43E+09
0	27Sep 12	5:30:00	900	61.4	1380384	1.24E+09
0	27Sep 12	5:45:00	900	62.5	1778279	1.60E+09
0	27Sep 12	6:00:00	900	63.2	2089296	1.88E+09
0	27Sep 12	6:15:00	900	63.6	2290868	2.06E+09
0	27Sep 12	6:30:00	900	65.3	3388442	3.05E+09
0	27Sep 12	6:45:00	900	64.8	3019952	2.72E+09
0	27Sep 12	7:00:00	900	67.6	5754399	5.18E+09
0	27Sep 12	7:15:00	900	63.6	2290868	2.06E+09
0	27Sep 12	7:30:00	900	64.6	2884032	2.60E+09
0	27Sep 12	7:45:00	900	63.9	2454709	2.21E+09
0	27Sep 12	8:00:00	900	64.9	3090295	2.78E+09
0	27Sep 12	8:15:00	900	64.7	2951209	2.66E+09
0	27Sep 12	8:30:00	900	63.7	2344229	2.11E+09
0	27Sep 12	8:45:00	900	63	1995262	1.80E+09
0	27Sep 12	9:00:00	900	64.2	2630268	2.37E+09
0	27Sep 12	9:15:00	900	64.7	2951209	2.66E+09
0	27Sep 12	9:30:00	900	63.4	2187762	1.97E+09
0	27Sep 12	9:45:00	900	63.2	2089296	1.88E+09
	sum		61200			9.45E+10
	min/ave		1020.00	**61.9**	1543615	

Hour	Leq	
10:00	63.7	2
11:00	64.3	1
12:00	64.0	1
13:00	64.3	1
14:00	64.5	1
15:00	64.7	1
16:00	64.9	0
17:00	64.2	1
18:00	63.8	1
19:00	62.4	3
20:00	61.6	4
21:00	60.6	5
22:00	60.4	5
23:00	59.3	6
00:00	58.1	7
01:00	55.2	10
02:00	55.1	10
03:00	55.6	10
04:00	58.8	6
05:00	61.5	4
06:00	64.3	1
07:00	65.2	0
08:00	64.1	1
09:00	63.9	1
	61.7	
Loudest Hour	65.2	

Meas Site	Date	Time	Duration	Leq	
ST-1	29Sep 12	16:00:00	59.8	57.1	3.07E+07
ST-1		16:01:00	60	57.8	3.62E+07
ST-1	26Sep 12	16:02:00	60	60.8	7.21E+07
ST-1	26Sep 12	16:03:00	60	60.8	7.21E+07
ST-1	26Sep 12	16:04:00	60	58.7	4.45E+07
ST-1	26Sep 12	16:05:00	60	58.4	4.15E+07
ST-1	26Sep 12	16:06:00	60	60	6.00E+07
ST-1	26Sep 12	16:07:00	60	61.1	7.73E+07
ST-1	26Sep 12	16:08:00	60	59.9	5.86E+07
ST-1	26Sep 12	16:09:00	60	56.9	2.94E+07
ST-1	26Sep 12	16:10:00	60	62.3	1.02E+08
ST-1	26Sep 12	16:11:00	60	59.7	5.60E+07
ST-1	26Sep 12	16:12:00	60	59.4	5.23E+07
ST-1	26Sep 12	16:13:00	60	59.9	5.86E+07
ST-1	26Sep 12	16:14:00	60	59.9	5.86E+07
ST-1	26Sep 12	16:15:00	0.4	51.3	5.40E+04
		sum	900.2		8.50E+08
		min/ave	15.00	**59.8**	
		Hours	0.3		

ST-2	26Sep 12	15:05:59	0	70.6	0.00E+00
ST-2	26Sep 12	15:06:00	60	60.7	7.05E+07
ST-2	26Sep 12	15:07:00	60	55.6	2.18E+07
ST-2	26Sep 12	15:08:00	60	54.6	1.73E+07
ST-2	26Sep 12	15:09:00	60	58	3.79E+07
ST-2	26Sep 12	15:10:00	60	56.8	2.87E+07
ST-2	26Sep 12	15:11:00	60	56.1	2.44E+07
ST-2	26Sep 12	15:12:00	60	57	3.01E+07
ST-2	26Sep 12	15:13:00	60	58	3.79E+07
ST-2	26Sep 12	15:14:00	60	54.4	1.65E+07
ST-2	26Sep 12	15:15:00	60	55.8	2.28E+07
ST-2	26Sep 12	15:16:00	60	50.5	6.73E+06
ST-2	26Sep 12	15:17:00	60	59	4.77E+07
ST-2	26Sep 12	15:18:00	60	50.4	6.58E+06
ST-2	26Sep 12	15:19:00	60	56.9	2.94E+07
ST-2	26Sep 12	15:20:00	60	52	9.51E+06
ST-2	26Sep 12	15:21:00	0.4	56.2	1.67E+05
		sum	900.4		4.08E+08
		min/ave	15.01	**56.6**	
		Hours	0.3		

Meas Site	Date	Time	Duration	Leq		
ST-3	26Sep 12	15:19:01	58.9		60.2	6.17E+07
ST-3	26Sep 12	15:20:00	60		67.9	3.70E+08
ST-3	26Sep 12	15:21:00	60		65.1	1.94E+08
ST-3	26Sep 12	15:22:00	60		69.3	5.11E+08
ST-3	26Sep 12	15:23:00	60		64.2	1.58E+08
ST-3	26Sep 12	15:24:00	60		61.4	8.28E+07
ST-3	26Sep 12	15:25:00	60		68.7	4.45E+08
ST-3	26Sep 12	15:26:00	60		63.3	1.28E+08
ST-3	26Sep 12	15:27:00	60		66.9	2.94E+08
ST-3	26Sep 12	15:28:00	60		69.6	5.47E+08
ST-3	26Sep 12	15:29:00	60		64.3	1.61E+08
ST-3	26Sep 12	15:30:00	60		61.6	8.67E+07
ST-3	26Sep 12	15:31:00	60		68.3	4.06E+08
ST-3	26Sep 12	15:32:00	60		64.1	1.54E+08
ST-3	26Sep 12	15:33:00	60		63.2	1.25E+08
ST-3	26Sep 12	15:34:00	1.5		55.3	5.08E+05
		sum	900.4			3.73E+09
		min/ave	15.01		**66.2**	
		Hours	0.3			

Summary			
Filename	LxT_Data.239		
Serial Number	2412		
Model	SoundTrack LxT®		
Firmware Version	1.512		
User			
Location	Jamacha Blvd		
Job Description			
Note	ST-4		
Measurement Description	DIX		
Start	2014/03/25 16:55:29		
Stop	2014/03/25 17:15:29		
Duration	0:20:00.6		
Run Time	0:20:00.6		
Pause	0:00:00.0		
Pre Calibration	2014/03/25 16:54:56		
Post Calibration	None		
Calibration Deviation	---		
Overall Settings			
RMS Weight	A Weighting		
Peak Weight	A Weighting		
Detector	Slow		
Preamp	PRMLxT1L		
Microphone Correction	N/A		
Integration Method	Linear		
OBA Range	Normal		
OBA Bandwidth	1/1 and 1/3		
OBA Freq. Weighting	A Weighting		
OBA Max Spectrum	At Lmax		
Overload	121.7 dB		
	A	**C**	**Z**
Under Range Peak	**77.0**	74.0	79.0 dB
Under Range Limit	**26.0**	25.2	32.0 dB
Noise Floor	16.2	16.1	21.9 dB
Results			
LAeq	70.5 dB		
LAE	101.3 dB		
EA	1.494 mPa²h		
EA8	35.833 mPa²h		
EA40	179.166 mPa²h		
LApeak (max)	2014/03/25 16:56:08	109.2 dB	
LASmax	2014/03/25 17:14:53	82.5 dB	
LASmin	2014/03/25 16:59:58	51.4 dB	
SEA	-99.9 dB		

Summary				
Filename	LxT_Data.240			
Serial Number	2412			
Model	SoundTrack LxT®			
Firmware Version	1.512			
User				
Location	Jamacha Road			
Job Description	ST-5			
Note				
Measurement Description	DIX			
Start	2014/03/25 17:36:27			
Stop	2014/03/25 17:56:28			
Duration	0:20:01.2			
Run Time	0:20:01.2			
Pause	0:00:00.0			
Pre Calibration	2014/03/25 17:35:51			
Post Calibration	None			
Calibration Deviation	---			
Overall Settings				
RMS Weight	A Weighting			
Peak Weight	A Weighting			
Detector	Slow			
Preamp	PRMLxT1L			
Microphone Correction	N/A			
Integration Method	Linear			
OBA Range	Normal			
OBA Bandwidth	1/1 and 1/3			
OBA Freq. Weighting	A Weighting			
OBA Max Spectrum	At Lmax			
Overload	121.8	dB		
	A		**C**	**Z**
Under Range Peak	**77.0**		74.0	79.0
Under Range Limit	**26.0**		25.2	32.0
Noise Floor	16.2		16.1	21.9
Results				
LAeq	70.0	dB		
LAE	100.8	dB		
EA	1.328	mPa²h		
EA8	31.836	mPa²h		
EA40	159.179	mPa²h		
LApeak (max)	2014/03/25 17:45:04		99.0	dB
LASmax	2014/03/25 17:49:14		80.1	dB
LASmin	2014/03/25 17:54:10		45.6	dB
SEA	-99.9	dB		

Summary	
Filename	LxT_Data.238
Serial Number	2412
Model	SoundTrack LxT®
Firmware Version	1.512
User	
Location	Steele Canyon
Job Description	
Note	ST-6
Measurement Description	DIX
Start	2014/03/25 16:08:09
Stop	2014/03/25 16:28:10
Duration	0:20:01.3
Run Time	0:20:01.3
Pause	0:00:00.0
Pre Calibration	2014/03/25 16:04:21
Post Calibration	None
Calibration Deviation	---
Overall Settings	
RMS Weight	A Weighting
Peak Weight	A Weighting
Detector	Slow
Preamp	PRMLxT1L
Microphone Correction	N/A
Integration Method	Linear
OBA Range	Normal
OBA Bandwidth	1/1 and 1/3
OBA Freq. Weighting	A Weighting
OBA Max Spectrum	At Lmax
Overload	121.8 dB

	A	**C**	**Z**
Under Range Peak	**77.0**	74.0	79.0 dB
Under Range Limit	**26.0**	25.2	32.0 dB
Noise Floor	16.2	16.1	21.9 dB

Results		
LAeq	70.2 dB	
LAE	101.0 dB	
EA	1.390 mPa²h	
EA8	33.315 mPa²h	
EA40	166.575 mPa²h	
LApeak (max)	2014/03/25 16:19:33	105.9 dB
LASmax	2014/03/25 16:19:33	86.3 dB
LASmin	2014/03/25 16:18:10	47.1 dB
SEA	-99.9 dB	

Summary	
Filename	LxT_Data.242
Serial Number	2412
Model	SoundTrack LxT®
Firmware Version	1.512
User	
Location	Lyons Valley Road
Job Description	
Note	ST-7
Measurement Description	DIX
Start	2014/03/25 18:39:14
Stop	2014/03/25 18:59:15
Duration	0:20:01.0
Run Time	0:20:01.0
Pause	0:00:00.0
Pre Calibration	2014/03/25 18:38:52
Post Calibration	None
Calibration Deviation	---
Overall Settings	
RMS Weight	A Weighting
Peak Weight	A Weighting
Detector	Slow
Preamp	PRMLxT1L
Microphone Correction	N/A
Integration Method	Linear
OBA Range	Normal
OBA Bandwidth	1/1 and 1/3
OBA Freq. Weighting	A Weighting
OBA Max Spectrum	At Lmax
Overload	121.8 dB

	A	**C**	**Z**
Under Range Peak	**77.0**	74.0	79.0 dB
Under Range Limit	**26.0**	25.2	32.0 dB
Noise Floor	16.2	16.1	21.9 dB

Summary	
Filename	LxT_Data.241
Serial Number	2412
Model	SoundTrack LxT®
Firmware Version	1.512
User	
Location	Maxfield
Job Description	
Note	ST-8
Measurement Description	DIX
Start	2014/03/25 18:12:05
Stop	2014/03/25 18:32:06
Duration	0:20:00.8
Run Time	0:20:00.8
Pause	0:00:00.0
Pre Calibration	2014/03/25 18:11:33
Post Calibration	None
Calibration Deviation	---
Overall Settings	
RMS Weight	A Weighting
Peak Weight	A Weighting
Detector	Slow
Preamp	PRMLxT1L
Microphone Correction	N/A
Integration Method	Linear
OBA Range	Normal
OBA Bandwidth	1/1 and 1/3
OBA Freq. Weighting	A Weighting
OBA Max Spectrum	At Lmax
Overload	121.8 dB

	A	**C**	**Z**
Under Range Peak	**77.0**	74.0	79.0 dB
Under Range Limit	**26.0**	25.2	32.0 dB
Noise Floor	16.2	16.1	21.9 dB

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ATTACHMENT 3

Calibration and Existing TNM Model Data Sheets

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13 August 2014
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: SR 94 - Jamul Reservation Access
RUN: Existing
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
R-1 - 13967 Highway 94	1	1	0.0	62.6	66	62.6	10	----	62.6	0.0	8	-8.0
R-2 - 13975 Highway 94	2	1	0.0	62.4	66	62.4	10	----	62.4	0.0	8	-8.0
R-3 - 14022 Hillside Dr	3	1	0.0	53.2	66	53.2	10	----	53.2	0.0	8	-8.0
R-4 - 14017 Hillside Dr	5	1	0.0	56.7	66	56.7	10	----	56.7	0.0	8	-8.0
R-5 - 14022 Highway 94 A	6	1	0.0	55.9	66	55.9	10	----	55.9	0.0	8	-8.0
R-6 - 14022 Highway 94 B	7	1	0.0	62.1	66	62.1	10	----	62.1	0.0	8	-8.0
R-7 - 14019 Highway 94	8	1	0.0	63.9	66	63.9	10	----	63.9	0.0	8	-8.0
R-8 - 14075 Short Ct	9	1	0.0	55.2	66	55.2	10	----	55.2	0.0	8	-8.0
R-9 - 14027 Hillsdie Dr	10	1	0.0	55.5	66	55.5	10	----	55.5	0.0	8	-8.0
R-10 - 14024 Highway 94	11	1	0.0	56.3	66	56.3	10	----	56.3	0.0	8	-8.0
R-11 - 14023 Campo Dr	12	1	0.0	55.1	66	55.1	10	----	55.1	0.0	8	-8.0
R-12 - 14043 Highway 94	14	1	0.0	50.2	66	50.2	10	----	50.2	0.0	8	-8.0
R-13 - 14051 Campo Rd	15	1	0.0	56.6	66	56.6	10	----	56.6	0.0	8	-8.0
R-14 - 14061 Campo Rd	16	1	0.0	42.0	66	42.0	10	----	42.0	0.0	8	-8.0
R-15 - 14018 Las Palmas Rd	17	1	0.0	56.9	66	56.9	10	----	56.9	0.0	8	-8.0
R-16 - 14013 Las Palmas Rd	18	1	0.0	56.3	66	56.3	10	----	56.3	0.0	8	-8.0
R-17 - 14031 Las Palmas Rd	20	1	0.0	50.4	66	50.4	10	----	50.4	0.0	8	-8.0
R-18 - 14066 Highway 94	21	1	0.0	53.4	66	53.4	10	----	53.4	0.0	8	-8.0
R-19 - 3023 Calle Mesquite	22	1	0.0	46.0	66	46.0	10	----	46.0	0.0	8	-8.0
R-20 - 3015 Calle Mesquite	23	1	0.0	46.4	66	46.4	10	----	46.4	0.0	8	-8.0
R-21 - 3007 Calle Mesquite	24	1	0.0	46.7	66	46.7	10	----	46.7	0.0	8	-8.0
R-22 - 14024 Peaceful Valley Ranch Rd	26	1	0.0	57.9	66	57.9	10	----	57.9	0.0	8	-8.0
R-23 - 14102 Peaceful Valley Ranch Rd	27	1	0.0	42.0	66	42.0	10	----	42.0	0.0	8	-8.0
R-24 - 44114 Campo Rd	28	1	0.0	46.3	66	46.3	10	----	46.3	0.0	8	-8.0

R-25 - Jamul Reservation	30	1	0.0	45.9	66	45.9	10	----	45.9	0.0	8	-8.0
ST-1 - APN: 597-04-126	32	1	0.0	62.6	66	62.6	10	----	62.6	0.0	8	-8.0
ST-2 - 14020 Melody Rd	34	1	0.0	60.5	66	60.5	10	----	60.5	0.0	8	-8.0
ST-3 - 14024 Peaceful Valley Ranch Rd	36	1	0.0	69.5	66	69.5	10	Snd Lvl	69.5	0.0	8	-8.0
LT - 14145 Highway 94	37	1	0.0	62.2	66	62.2	10	----	62.2	0.0	8	-8.0

Dwelling Units	**# DUs**	**Noise Reduction**		
		Min	**Avg**	**Max**
		dB	**dB**	**dB**
All Selected	29	0.0	0.0	0.0
All Impacted	1	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

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INPUT: ROADWAYS
PROJECT/CONTRACT: SR 94 - Jamul Reservation Access
RUN: Existing

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway Name	Width	Points Name	No.	Coordinates (pavement) X	Y	Z	Flow Control Control Device	Speed Constraint	Percent Vehicles Affected	Segment Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
SR-94 SB North of Melody Rd	12.0	point1	1	6,370,642.0	1,839,918.6	1,027.00				Average	
		point2	2	6,370,640.5	1,839,429.4	1,020.00				Average	
		point3	3	6,370,637.0	1,838,936.0	1,015.00				Average	
		point4	4	6,370,633.0	1,838,670.0	994.00				Average	
		point5	5	6,370,635.0	1,838,589.6	987.00				Average	
		point6	6	6,370,632.5	1,838,499.5	986.00				Average	
		point7	7	6,370,632.5	1,838,282.1	985.00				Average	
		point8	8	6,370,629.0	1,838,018.2	984.00				Average	
		point9	9	6,370,627.5	1,837,854.2	976.00				Average	
		point10	10	6,370,635.0	1,837,781.0	969.00				Average	
		point11	11	6,370,644.5	1,837,730.9	961.00				Average	
		point12	12	6,370,664.0	1,837,657.0	957.00				Average	
		point13	13	6,370,677.5	1,837,619.2	955.00					
SR-94 NB North of Melody Rd	12.0	point26	26	6,370,689.0	1,837,623.2	955.00				Average	
		point25	25	6,370,675.5	1,837,660.5	957.00				Average	
		point24	24	6,370,656.0	1,837,733.5	961.00				Average	
		point23	23	6,370,647.0	1,837,782.8	969.00				Average	
		point22	22	6,370,639.5	1,837,854.8	976.00				Average	
		point21	21	6,370,641.0	1,838,018.1	984.00				Average	
		point20	20	6,370,644.5	1,838,282.0	985.00				Average	
		point19	19	6,370,644.5	1,838,499.4	986.00				Average	
		point18	18	6,370,647.0	1,838,589.6	987.00				Average	
		point17	17	6,370,645.0	1,838,670.1	994.00				Average	
		point16	16	6,370,649.0	1,838,935.9	1,015.00				Average	
		point15	15	6,370,652.5	1,839,429.2	1,020.00				Average	

		point14	14	6,370,654.0	1,839,918.6	1,027.00					
SR-94 SB South of Melody Rd	12.0	point27	27	6,370,677.5	1,837,619.4	955.00				Average	
		point28	28	6,370,685.5	1,837,596.5	954.00				Average	
		point29	29	6,370,713.0	1,837,521.6	953.00				Average	
		point30	30	6,370,751.5	1,837,433.2	953.00				Average	
		point31	31	6,370,777.0	1,837,387.2	951.00				Average	
		point32	32	6,370,833.5	1,837,290.9	950.00				Average	
		point33	33	6,370,943.5	1,837,120.4	946.00				Average	
		point34	34	6,370,970.5	1,837,077.8	940.00				Average	
		point35	35	6,371,026.0	1,836,989.8	939.00				Average	
		point36	36	6,371,075.0	1,836,913.6	938.00				Average	
		point37	37	6,371,104.5	1,836,875.4	937.00				Average	
		point38	38	6,371,138.0	1,836,838.1	936.00				Average	
		point39	39	6,371,182.0	1,836,796.1	935.00				Average	
		point40	40	6,371,224.0	1,836,761.8	934.00				Average	
		point41	41	6,371,273.5	1,836,724.9	933.00				Average	
		point42	42	6,371,318.5	1,836,694.5	932.00				Average	
		point43	43	6,371,359.0	1,836,664.9	931.00				Average	
		point44	44	6,371,399.5	1,836,632.8	930.00					
SR-94 NB South of Melody Rd	12.0	point102	102	6,373,435.0	1,834,286.5	815.00				Average	
		point101	101	6,373,393.0	1,834,336.6	816.00				Average	
		point100	100	6,373,360.5	1,834,376.0	817.00				Average	
		point99	99	6,373,329.5	1,834,414.2	818.00				Average	
		point98	98	6,373,299.5	1,834,450.6	819.00				Average	
		point97	97	6,373,237.0	1,834,526.2	821.00				Average	
		point96	96	6,373,143.5	1,834,639.9	824.00				Average	
		point95	95	6,372,956.0	1,834,867.6	829.00				Average	
		point94	94	6,372,525.5	1,835,392.8	852.00				Average	
		point93	93	6,372,201.5	1,835,791.8	874.00				Average	
		point92	92	6,372,023.5	1,836,010.0	888.00				Average	
		point91	91	6,371,892.5	1,836,169.4	894.00				Average	
		point90	90	6,371,799.0	1,836,281.2	904.00				Average	
		point89	89	6,371,768.5	1,836,312.5	912.00				Average	
		point88	88	6,371,719.0	1,836,357.2	919.00				Average	
		point87	87	6,371,635.0	1,836,425.9	924.00				Average	
		point86	86	6,371,559.0	1,836,497.9	925.00				Average	
		point85	85	6,371,533.0	1,836,524.1	926.00				Average	
		point84	84	6,371,506.5	1,836,549.5	928.00				Average	
		point83	83	6,371,446.5	1,836,606.4	926.00				Average	

		point82	82	6,371,407.5	1,836,641.9	930.00					
Melody Rd WB West of SR-94	12.0	point103	103	6,370,653.5	1,837,621.1	955.00	Stop	0.00	100	Average	
		point104	104	6,370,614.5	1,837,615.9	955.00				Average	
		point105	105	6,370,526.5	1,837,608.6	955.00				Average	
		point106	106	6,370,450.5	1,837,603.5	960.00				Average	
		point107	107	6,370,352.5	1,837,598.1	970.00				Average	
		point108	108	6,370,258.5	1,837,589.4	980.00				Average	
		point109	109	6,370,169.5	1,837,581.9	988.00				Average	
		point110	110	6,370,112.0	1,837,577.0	991.00				Average	
		point111	111	6,370,049.5	1,837,572.1	992.00				Average	
		point112	112	6,369,868.5	1,837,560.9	993.00				Average	
		point113	113	6,369,709.0	1,837,556.1	994.00				Average	
		point114	114	6,369,635.0	1,837,551.6	995.00				Average	
		point115	115	6,369,568.5	1,837,545.9	996.00				Average	
		point116	116	6,369,240.5	1,837,518.1	1,009.00				Average	
		point117	117	6,369,042.0	1,837,501.6	1,021.00				Average	
		point118	118	6,368,978.0	1,837,498.5	1,025.00				Average	
		point119	119	6,368,756.5	1,837,492.1	1,036.00				Average	
		point120	120	6,368,609.0	1,837,490.0	1,040.00				Average	
		point121	121	6,368,532.5	1,837,488.6	1,041.00					
Melody Rd EB West of SR-94	12.0	point140	140	6,368,533.0	1,837,476.6	1,041.00				Average	
		point139	139	6,368,609.0	1,837,478.0	1,040.00				Average	
		point138	138	6,368,757.0	1,837,480.1	1,036.00				Average	
		point137	137	6,368,978.5	1,837,486.5	1,025.00				Average	
		point136	136	6,369,042.5	1,837,489.6	1,021.00				Average	
		point135	135	6,369,241.5	1,837,506.1	1,009.00				Average	
		point134	134	6,369,569.5	1,837,534.0	996.00				Average	
		point133	133	6,369,636.0	1,837,539.6	995.00				Average	
		point132	132	6,369,709.5	1,837,544.1	994.00				Average	
		point131	131	6,369,869.0	1,837,548.9	993.00				Average	
		point130	130	6,370,050.0	1,837,560.1	992.00				Average	
		point129	129	6,370,113.0	1,837,565.0	991.00				Average	
		point128	128	6,370,170.5	1,837,569.9	988.00				Average	
		point127	127	6,370,259.5	1,837,577.4	980.00				Average	
		point126	126	6,370,353.0	1,837,586.1	970.00				Average	
		point125	125	6,370,451.5	1,837,591.5	960.00				Average	
		point124	124	6,370,527.5	1,837,596.8	955.00				Average	
		point123	123	6,370,615.5	1,837,603.9	955.00				Average	
		point122	122	6,370,655.0	1,837,609.2	955.00					

Melody Rd WB East of SR-94	12.0	point141	141	6,371,648.0	1,836,977.9	946.00	Stop	0.00	100	Average	
		point142	142	6,371,580.5	1,837,154.1	950.00				Average	
		point143	143	6,371,548.5	1,837,238.9	955.00				Average	
		point144	144	6,371,536.5	1,837,264.2	957.00				Average	
		point145	145	6,371,514.0	1,837,298.9	960.00				Average	
		point146	146	6,371,465.0	1,837,353.6	965.00				Average	
		point147	147	6,371,396.0	1,837,424.4	970.00				Average	
		point148	148	6,371,368.0	1,837,454.0	971.00				Average	
		point149	149	6,371,310.0	1,837,506.8	971.50				Average	
		point150	150	6,371,245.5	1,837,551.4	970.00				Average	
		point151	151	6,371,176.0	1,837,586.4	970.50				Average	
		point152	152	6,371,095.5	1,837,611.5	970.70				Average	
		point153	153	6,371,002.5	1,837,632.8	970.00				Average	
		point154	154	6,370,945.0	1,837,633.0	968.00				Average	
		point155	155	6,370,889.0	1,837,629.1	965.00				Average	
		point156	156	6,370,803.0	1,837,622.0	960.00				Average	
		point157	157	6,370,743.0	1,837,616.5	955.00					
Melody Rd EB East of SR-94	12.0	point174	174	6,370,744.0	1,837,604.5	955.00	Stop	0.00	100	Average	
		point173	173	6,370,804.0	1,837,610.0	960.00				Average	
		point172	172	6,370,890.0	1,837,617.1	965.00				Average	
		point171	171	6,370,945.5	1,837,621.0	968.00				Average	
		point170	170	6,371,001.0	1,837,620.8	970.00				Average	
		point169	169	6,371,092.5	1,837,599.9	970.70				Average	
		point168	168	6,371,171.5	1,837,575.1	970.50				Average	
		point167	167	6,371,239.5	1,837,541.0	970.00				Average	
		point166	166	6,371,302.5	1,837,497.2	971.50				Average	
		point165	165	6,371,359.5	1,837,445.4	971.00				Average	
		point164	164	6,371,387.0	1,837,416.0	970.00				Average	
		point163	163	6,371,456.0	1,837,345.4	965.00				Average	
		point162	162	6,371,504.5	1,837,291.6	960.00				Average	
		point161	161	6,371,526.0	1,837,258.4	957.00				Average	
		point160	160	6,371,537.5	1,837,234.2	955.00				Average	
		point159	159	6,371,569.5	1,837,149.9	950.00				Average	
		point158	158	6,371,637.0	1,836,973.6	946.00					
Peacful Valley WB East of SR-94	12.0	point190	190	6,371,478.0	1,836,599.9	927.00				Average	
		point189	189	6,371,496.0	1,836,624.0	928.00				Average	
		point188	188	6,371,512.0	1,836,645.0	930.00				Average	
		point187	187	6,371,525.5	1,836,667.9	930.00				Average	
		point186	186	6,371,531.5	1,836,687.1	932.00				Average	

		point185	185	6,371,534.5	1,836,706.9	933.40				Average	
		point184	184	6,371,546.0	1,836,774.6	935.00				Average	
		point183	183	6,371,557.0	1,836,839.8	940.00				Average	
		point182	182	6,371,576.5	1,836,885.5	944.00				Average	
		point181	181	6,371,598.0	1,836,914.1	945.00				Average	
		point180	180	6,371,619.5	1,836,938.6	946.00				Average	
		point179	179	6,371,663.5	1,836,970.0	946.00				Average	
		point178	178	6,371,681.0	1,836,977.4	945.00				Average	
		point177	177	6,371,744.5	1,836,983.8	940.00				Average	
		point176	176	6,371,821.5	1,836,989.4	935.00				Average	
		point175	175	6,371,891.5	1,836,985.2	930.00					
Peacful Valley EB East of SR-94	12.0	point191	191	6,371,891.0	1,836,973.2	930.00				Average	
		point192	192	6,371,821.5	1,836,977.4	935.00				Average	
		point193	193	6,371,745.5	1,836,971.9	940.00				Average	
		point194	194	6,371,684.0	1,836,965.6	945.00				Average	
		point195	195	6,371,669.5	1,836,959.5	946.00				Average	
		point196	196	6,371,627.5	1,836,929.6	946.00				Average	
		point197	197	6,371,607.5	1,836,906.5	945.00				Average	
		point198	198	6,371,587.0	1,836,879.4	944.00				Average	
		point199	199	6,371,569.0	1,836,836.4	940.00				Average	
		point200	200	6,371,558.0	1,836,772.6	935.00				Average	
		point201	201	6,371,546.5	1,836,705.0	933.40				Average	
		point202	202	6,371,543.5	1,836,684.5	932.00				Average	
		point203	203	6,371,536.5	1,836,662.9	930.00				Average	
		point204	204	6,371,522.0	1,836,638.2	930.00				Average	
		point205	205	6,371,505.5	1,836,616.8	928.00				Average	
		point206	206	6,371,487.5	1,836,592.6	927.00					
SR-94 SB South of Melody Rd-2	12.0	point207	207	6,371,399.5	1,836,632.8	930.00				Average	
		point45	45	6,371,438.0	1,836,597.6	926.00				Average	
		point46	46	6,371,498.0	1,836,540.8	928.00				Average	
		point47	47	6,371,525.0	1,836,515.5	926.00				Average	
		point48	48	6,371,550.5	1,836,489.2	925.00				Average	
		point49	49	6,371,627.0	1,836,416.9	924.00				Average	
		point50	50	6,371,711.5	1,836,348.2	919.00				Average	
		point51	51	6,371,760.0	1,836,303.9	912.00				Average	
		point52	52	6,371,790.0	1,836,273.1	904.00				Average	
		point53	53	6,371,883.5	1,836,161.8	894.00				Average	
		point54	54	6,372,014.0	1,836,002.4	888.00				Average	
		point55	55	6,372,192.0	1,835,784.1	874.00				Average	

		point56	56	6,372,516.0	1,835,385.1	852.00				Average	
		point57	57	6,372,947.0	1,834,860.0	829.00				Average	
		point58	58	6,373,134.0	1,834,632.2	824.00				Average	
		point59	59	6,373,227.5	1,834,518.6	821.00				Average	
		point60	60	6,373,290.0	1,834,443.0	819.00				Average	
		point61	61	6,373,320.0	1,834,406.6	818.00				Average	
		point62	62	6,373,351.5	1,834,368.5	817.00				Average	
		point63	63	6,373,383.5	1,834,329.0	816.00				Average	
		point64	64	6,373,426.0	1,834,278.8	815.00					
SR-94 NB South of Melody Rd-2	12.0	point208	208	6,371,407.5	1,836,641.9	930.00				Average	
		point81	81	6,371,366.0	1,836,674.5	931.00				Average	
		point80	80	6,371,325.5	1,836,704.2	932.00				Average	
		point79	79	6,371,280.5	1,836,734.6	933.00				Average	
		point78	78	6,371,231.0	1,836,771.2	934.00				Average	
		point77	77	6,371,190.0	1,836,805.1	935.00				Average	
		point76	76	6,371,146.5	1,836,846.5	936.00				Average	
		point75	75	6,371,113.5	1,836,883.0	937.00				Average	
		point74	74	6,371,085.0	1,836,920.5	938.00				Average	
		point73	73	6,371,036.0	1,836,996.1	939.00				Average	
		point72	72	6,370,980.5	1,837,084.1	940.00				Average	
		point71	71	6,370,953.5	1,837,126.8	946.00				Average	
		point70	70	6,370,844.0	1,837,297.2	950.00				Average	
		point69	69	6,370,787.5	1,837,393.2	951.00				Average	
		point68	68	6,370,762.5	1,837,438.6	953.00				Average	
		point67	67	6,370,724.0	1,837,526.1	953.00				Average	
		point66	66	6,370,696.5	1,837,600.5	954.00				Average	
		point65	65	6,370,689.0	1,837,623.1	955.00					

Ldn Consulting **13 August 2014**
Ldn Consulting **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: **SR 94 - Jamul Reservation Access**
RUN: **Existing**

Roadway	Points											
Name	Name	No.	Segment									
			Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
SR-94 SB North of Melody Rd	point1	1	620	45	29	45	21	45	0	0	0	0
	point2	2	620	45	29	45	21	45	0	0	0	0
	point3	3	620	45	29	45	21	45	0	0	0	0
	point4	4	620	45	29	45	21	45	0	0	0	0
	point5	5	620	45	29	45	21	45	0	0	0	0
	point6	6	620	45	29	45	21	45	0	0	0	0
	point7	7	620	45	29	45	21	45	0	0	0	0
	point8	8	620	45	29	45	21	45	0	0	0	0
	point9	9	620	45	29	45	21	45	0	0	0	0
	point10	10	620	45	29	45	21	45	0	0	0	0
	point11	11	620	45	29	45	21	45	0	0	0	0
	point12	12	620	45	29	45	21	45	0	0	0	0
	point13	13										
SR-94 NB North of Melody Rd	point26	26	620	45	29	45	21	45	0	0	0	0
	point25	25	620	45	29	45	21	45	0	0	0	0
	point24	24	620	45	29	45	21	45	0	0	0	0
	point23	23	620	45	29	45	21	45	0	0	0	0
	point22	22	620	45	29	45	21	45	0	0	0	0
	point21	21	620	45	29	45	21	45	0	0	0	0
	point20	20	620	45	29	45	21	45	0	0	0	0
	point19	19	620	45	29	45	21	45	0	0	0	0
	point18	18	620	45	29	45	21	45	0	0	0	0
	point17	17	620	45	29	45	21	45	0	0	0	0

	point16	16	620	45	29	45	21	45	0	0	0	0
	point15	15	620	45	29	45	21	45	0	0	0	0
	point14	14										
SR-94 SB South of Melody Rd	point27	27	573	45	27	45	19	45	0	0	0	0
	point28	28	573	45	27	45	19	45	0	0	0	0
	point29	29	573	45	27	45	19	45	0	0	0	0
	point30	30	573	45	27	45	19	45	0	0	0	0
	point31	31	573	45	27	45	19	45	0	0	0	0
	point32	32	573	45	27	45	19	45	0	0	0	0
	point33	33	573	45	27	45	19	45	0	0	0	0
	point34	34	573	45	27	45	19	45	0	0	0	0
	point35	35	573	45	27	45	19	45	0	0	0	0
	point36	36	573	45	27	45	19	45	0	0	0	0
	point37	37	573	45	27	45	19	45	0	0	0	0
	point38	38	573	45	27	45	19	45	0	0	0	0
	point39	39	573	45	27	45	19	45	0	0	0	0
	point40	40	573	45	27	45	19	45	0	0	0	0
	point41	41	573	45	27	45	19	45	0	0	0	0
	point42	42	573	45	27	45	19	45	0	0	0	0
	point43	43	573	45	27	45	19	45	0	0	0	0
	point44	44										
SR-94 NB South of Melody Rd	point102	102	581	45	27	45	19	45	0	0	0	0
	point101	101	581	45	27	45	19	45	0	0	0	0
	point100	100	581	45	27	45	19	45	0	0	0	0
	point99	99	581	45	27	45	19	45	0	0	0	0
	point98	98	581	45	27	45	19	45	0	0	0	0
	point97	97	581	45	27	45	19	45	0	0	0	0
	point96	96	581	45	27	45	19	45	0	0	0	0
	point95	95	581	45	27	45	19	45	0	0	0	0
	point94	94	581	45	27	45	19	45	0	0	0	0
	point93	93	581	45	27	45	19	45	0	0	0	0
	point92	92	581	45	27	45	19	45	0	0	0	0
	point91	91	581	45	27	45	19	45	0	0	0	0
	point90	90	581	45	27	45	19	45	0	0	0	0
	point89	89	581	45	27	45	19	45	0	0	0	0
	point88	88	581	45	27	45	19	45	0	0	0	0

	point87	87	581	45	27	45	19	45	0	0	0	0
	point86	86	581	45	27	45	19	45	0	0	0	0
	point85	85	581	45	27	45	19	45	0	0	0	0
	point84	84	581	45	27	45	19	45	0	0	0	0
	point83	83	581	45	27	45	19	45	0	0	0	0
	point82	82										
Melody Rd WB West of SR-94	point103	103	14	30	1	30	0	0	0	0	0	0
	point104	104	14	30	1	30	0	0	0	0	0	0
	point105	105	14	30	1	30	0	0	0	0	0	0
	point106	106	14	30	1	30	1	30	0	0	0	0
	point107	107	14	30	1	30	0	0	0	0	0	0
	point108	108	14	30	1	30	0	0	0	0	0	0
	point109	109	14	30	1	30	0	0	0	0	0	0
	point110	110	14	30	1	30	0	0	0	0	0	0
	point111	111	14	30	1	30	0	0	0	0	0	0
	point112	112	14	30	1	30	0	0	0	0	0	0
	point113	113	14	30	1	30	0	0	0	0	0	0
	point114	114	14	30	1	30	0	0	0	0	0	0
	point115	115	14	30	1	30	0	0	0	0	0	0
	point116	116	14	30	1	30	0	0	0	0	0	0
	point117	117	14	30	1	30	0	0	0	0	0	0
	point118	118	14	30	1	30	0	0	0	0	0	0
	point119	119	14	30	1	30	0	0	0	0	0	0
	point120	120	14	30	1	30	0	0	0	0	0	0
	point121	121										
Melody Rd EB West of SR-94	point140	140	14	30	1	30	1	30	0	0	0	0
	point139	139	14	30	1	30	1	30	0	0	0	0
	point138	138	14	30	1	30	1	30	0	0	0	0
	point137	137	14	30	1	30	1	30	0	0	0	0
	point136	136	14	30	1	30	1	30	0	0	0	0
	point135	135	14	30	1	30	1	30	0	0	0	0
	point134	134	14	30	1	30	1	30	0	0	0	0
	point133	133	14	30	1	30	1	30	0	0	0	0
	point132	132	14	30	1	30	1	30	0	0	0	0
	point131	131	14	30	1	30	1	30	0	0	0	0
	point130	130	14	30	1	30	1	30	0	0	0	0

	point129	129	14	30	1	30	1	30	0	0	0	0
	point128	128	14	30	1	30	1	30	0	0	0	0
	point127	127	14	30	1	30	1	30	0	0	0	0
	point126	126	14	30	1	30	1	30	0	0	0	0
	point125	125	14	30	1	30	1	30	0	0	0	0
	point124	124	14	30	1	30	1	30	0	0	0	0
	point123	123	14	30	1	30	1	30	0	0	0	0
	point122	122										
Melody Rd WB East of SR-94	point141	141	6	25	1	25	0	0	0	0	0	0
	point142	142	6	25	1	25	0	0	0	0	0	0
	point143	143	6	25	1	25	0	0	0	0	0	0
	point144	144	6	25	1	25	0	0	0	0	0	0
	point145	145	6	25	1	25	0	0	0	0	0	0
	point146	146	6	25	1	25	0	0	0	0	0	0
	point147	147	6	25	1	25	0	0	0	0	0	0
	point148	148	6	25	1	25	0	0	0	0	0	0
	point149	149	6	25	1	25	0	0	0	0	0	0
	point150	150	6	25	1	25	0	0	0	0	0	0
	point151	151	6	25	1	25	0	0	0	0	0	0
	point152	152	6	25	1	25	0	0	0	0	0	0
	point153	153	6	25	1	25	0	0	0	0	0	0
	point154	154	6	25	1	25	0	0	0	0	0	0
	point155	155	6	25	1	25	0	0	0	0	0	0
	point156	156	6	25	1	25	0	0	0	0	0	0
	point157	157										
Melody Rd EB East of SR-94	point174	174	6	25	1	25	0	0	0	0	0	0
	point173	173	6	25	1	25	0	0	0	0	0	0
	point172	172	6	25	1	25	0	0	0	0	0	0
	point171	171	6	25	1	25	0	0	0	0	0	0
	point170	170	6	25	1	25	0	0	0	0	0	0
	point169	169	6	25	1	25	0	0	0	0	0	0
	point168	168	6	25	1	25	0	0	0	0	0	0
	point167	167	6	25	1	25	0	0	0	0	0	0
	point166	166	6	25	1	25	0	0	0	0	0	0
	point165	165	6	25	1	25	0	0	0	0	0	0
	point164	164	6	25	1	25	0	0	0	0	0	0

	point163	163	6	25	1	25	0	0	0	0	0	0
	point162	162	6	25	1	25	0	0	0	0	0	0
	point161	161	6	25	1	25	0	0	0	0	0	0
	point160	160	6	25	1	25	0	0	0	0	0	0
	point159	159	6	25	1	25	0	0	0	0	0	0
	point158	158										
Peacful Valley WB East of SR-94	point190	190	0	0	0	0	0	0	0	0	0	0
	point189	189	0	0	0	0	0	0	0	0	0	0
	point188	188	0	0	0	0	0	0	0	0	0	0
	point187	187	0	0	0	0	0	0	0	0	0	0
	point186	186	0	0	0	0	0	0	0	0	0	0
	point185	185	0	0	0	0	0	0	0	0	0	0
	point184	184	0	0	0	0	0	0	0	0	0	0
	point183	183	0	0	0	0	0	0	0	0	0	0
	point182	182	0	0	0	0	0	0	0	0	0	0
	point181	181	0	0	0	0	0	0	0	0	0	0
	point180	180	0	0	0	0	0	0	0	0	0	0
	point179	179	0	0	0	0	0	0	0	0	0	0
	point178	178	0	0	0	0	0	0	0	0	0	0
	point177	177	0	0	0	0	0	0	0	0	0	0
	point176	176	0	0	0	0	0	0	0	0	0	0
	point175	175										
Peacful Valley EB East of SR-94	point191	191	0	0	0	0	0	0	0	0	0	0
	point192	192	0	0	0	0	0	0	0	0	0	0
	point193	193	0	0	0	0	0	0	0	0	0	0
	point194	194	0	0	0	0	0	0	0	0	0	0
	point195	195	0	0	0	0	0	0	0	0	0	0
	point196	196	0	0	0	0	0	0	0	0	0	0
	point197	197	0	0	0	0	0	0	0	0	0	0
	point198	198	0	0	0	0	0	0	0	0	0	0
	point199	199	0	0	0	0	0	0	0	0	0	0
	point200	200	0	0	0	0	0	0	0	0	0	0
	point201	201	0	0	0	0	0	0	0	0	0	0
	point202	202	0	0	0	0	0	0	0	0	0	0
	point203	203	0	0	0	0	0	0	0	0	0	0
	point204	204	0	0	0	0	0	0	0	0	0	0

	point205	205	0	0	0	0	0	0	0	0	0	0
	point206	206										
SR-94 SB South of Melody Rd-2	point207	207	581	45	27	45	19	45	0	0	0	0
	point45	45	581	45	27	45	19	45	0	0	0	0
	point46	46	581	45	27	45	19	45	0	0	0	0
	point47	47	581	45	27	45	19	45	0	0	0	0
	point48	48	581	45	27	45	19	45	0	0	0	0
	point49	49	581	45	27	45	19	45	0	0	0	0
	point50	50	581	45	27	45	19	45	0	0	0	0
	point51	51	581	45	27	45	19	45	0	0	0	0
	point52	52	581	45	27	45	19	45	0	0	0	0
	point53	53	581	45	27	45	19	45	0	0	0	0
	point54	54	581	45	27	45	19	45	0	0	0	0
	point55	55	581	45	27	45	19	45	0	0	0	0
	point56	56	581	45	27	45	19	45	0	0	0	0
	point57	57	581	45	27	45	19	45	0	0	0	0
	point58	58	581	45	27	45	19	45	0	0	0	0
	point59	59	581	45	27	45	19	45	0	0	0	0
	point60	60	581	45	27	45	19	45	0	0	0	0
	point61	61	581	45	27	45	19	45	0	0	0	0
	point62	62	581	45	27	45	19	45	0	0	0	0
	point63	63	581	45	27	45	19	45	0	0	0	0
	point64	64										
SR-94 NB South of Melody Rd-2	point208	208	573	45	27	45	19	45	0	0	0	0
	point81	81	573	45	27	45	19	45	0	0	0	0
	point80	80	573	45	27	45	19	45	0	0	0	0
	point79	79	573	45	27	45	19	45	0	0	0	0
	point78	78	573	45	27	45	19	45	0	0	0	0
	point77	77	573	45	27	45	19	45	0	0	0	0
	point76	76	573	45	27	45	19	45	0	0	0	0
	point75	75	573	45	27	45	19	45	0	0	0	0
	point74	74	573	45	27	45	19	45	0	0	0	0
	point73	73	573	45	27	45	19	45	0	0	0	0
	point72	72	573	45	27	45	19	45	0	0	0	0
	point71	71	573	45	27	45	19	45	0	0	0	0
	point70	70	573	45	27	45	19	45	0	0	0	0

	point69	69	573	45	27	45	19	45	0	0	0	0
	point68	68	573	45	27	45	19	45	0	0	0	0
	point67	67	573	45	27	45	19	45	0	0	0	0
	point66	66	573	45	27	45	19	45	0	0	0	0
	point65	65										

Ldn Consulting 13 August 2014
Ldn Consulting TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: SR 94 - Jamul Reservation Access
RUN: Existing

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria Existing LAeq1h	Impact Criteria LAeq1h	Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
R-1 - 13967 Highway 94	1	1	6,370,558.5	1,839,906.5	1,034.00	4.92	0.00	66	10.0	8.0	
R-2 - 13975 Highway 94	2	1	6,370,532.5	1,839,782.0	1,030.00	4.92	0.00	66	10.0	8.0	
R-3 - 14022 Hillside Dr	3	1	6,370,971.5	1,839,692.2	1,031.00	4.92	0.00	66	10.0	8.0	
R-4 - 14017 Hillside Dr	5	1	6,370,862.5	1,839,376.1	1,010.00	4.92	0.00	66	10.0	8.0	
R-5 - 14022 Highway 94 A	6	1	6,370,820.5	1,839,166.4	1,007.00	4.92	0.00	66	10.0	8.0	
R-6 - 14022 Highway 94 B	7	1	6,370,720.0	1,839,161.8	1,007.00	4.92	0.00	66	10.0	8.0	
R-7 - 14019 Highway 94	8	1	6,370,584.0	1,839,275.4	1,007.00	4.92	0.00	66	10.0	8.0	
R-8 - 14075 Short Ct	9	1	6,370,376.0	1,839,044.6	1,014.00	4.92	0.00	66	10.0	8.0	
R-9 - 14027 Hillsdie Dr	10	1	6,371,060.0	1,839,115.8	1,035.00	4.92	0.00	66	10.0	8.0	
R-10 - 14024 Highway 94	11	1	6,370,898.0	1,838,976.9	1,014.00	4.92	0.00	66	10.0	8.0	
R-11 - 14023 Campo Dr	12	1	6,370,414.5	1,838,893.0	1,005.00	4.92	0.00	66	10.0	8.0	
R-12 - 14043 Highway 94	14	1	6,370,396.0	1,838,738.2	1,001.00	4.92	0.00	66	10.0	8.0	
R-13 - 14051 Campo Rd	15	1	6,370,375.0	1,838,565.6	1,003.00	4.92	0.00	66	10.0	8.0	
R-14 - 14061 Campo Rd	16	1	6,370,436.0	1,838,446.0	985.00	4.92	0.00	66	10.0	8.0	
R-15 - 14018 Las Palmas Rd	17	1	6,370,843.0	1,838,530.5	1,010.00	4.92	0.00	66	10.0	8.0	
R-16 - 14013 Las Palmas Rd	18	1	6,370,828.5	1,838,266.2	994.00	4.92	0.00	66	10.0	8.0	
R-17 - 14031 Las Palmas Rd	20	1	6,371,023.0	1,838,146.8	1,005.00	4.92	0.00	66	10.0	8.0	
R-18 - 14066 Highway 94	21	1	6,371,003.0	1,838,029.5	1,010.00	4.92	0.00	66	10.0	8.0	
R-19 - 3023 Calle Mesquite	22	1	6,369,754.5	1,837,925.4	1,016.00	4.92	0.00	66	10.0	8.0	
R-20 - 3015 Calle Mesquite	23	1	6,369,772.5	1,837,777.9	1,018.00	4.92	0.00	66	10.0	8.0	
R-21 - 3007 Calle Mesquite	24	1	6,369,766.5	1,837,652.1	1,002.00	4.92	0.00	66	10.0	8.0	
R-22 - 14024 Peaceful Valley Ranch Rd	26	1	6,371,362.0	1,836,883.2	948.00	4.92	0.00	66	10.0	8.0	

R-23 - 14102 Peaceful Valley Ranch Rd	27	1	6,372,137.0	1,837,447.2	947.00	4.92	0.00	66	10.0	8.0	
R-24 - 44114 Campo Rd	28	1	6,372,855.0	1,836,707.5	934.00	4.92	0.00	66	10.0	8.0	
R-25 - Jamul Reservation	30	1	6,370,702.5	1,836,278.4	898.00	4.92	0.00	66	10.0	8.0	
ST-1 - APN: 597-04-126	32	1	6,370,759.0	1,838,704.5	995.00	4.92	0.00	66	10.0	8.0	Y
ST-2 - 14020 Melody Rd	34	1	6,370,404.0	1,837,642.0	1,001.50	4.92	0.00	66	10.0	8.0	Y
ST-3 - 14024 Peaceful Valley Ranch Rd	36	1	6,371,617.0	1,836,500.5	923.00	4.92	0.00	66	10.0	8.0	Y
LT - 14145 Highway 94	37	1	6,371,208.0	1,836,635.8	930.00	4.92	0.00	66	10.0	8.0	Y

Ldn Consulting **13 August 2014**
Ldn Consulting **TNM 2.5**

INPUT: BARRIERS
PROJECT/CONTRACT: **SR 94 - Jamul Reservation Access**
RUN: **Existing**

Barrier Name	Type	Height Min	Height Max	If Wall $ per Unit Area	If Berm $ per Unit Vol.	Top Width	Run:Rise	Add'tnl $ per Unit Length	Points Name	No.	Coordinates (bottom) X	Y	Z	Height at Point	Segment Seg Ht Increment	Perturbs #Up	#Dn	On Struct?	Important Reflections?
		ft	ft	$/sq ft	$/cu yd	ft	ft:ft	$/ft			ft	ft	ft	ft	ft				
13857 Meldoy Rd	W	13.98	13.98	0.00				0.00	point1	1	6,368,830.5	1,837,302.4	1,051.00	13.98	0.00	0	0		
									point2	2	6,368,808.0	1,837,288.8	1,051.00	13.98	0.00	0	0		
									point3	3	6,368,813.5	1,837,280.2	1,051.00	13.98	0.00	0	0		
									point4	4	6,368,791.5	1,837,267.0	1,051.00	13.98	0.00	0	0		
									point5	5	6,368,809.5	1,837,237.2	1,051.00	13.98	0.00	0	0		
									point6	6	6,368,800.0	1,837,231.2	1,051.00	13.98	0.00	0	0		
									point7	7	6,368,811.0	1,837,212.9	1,051.00	13.98	0.00	0	0		
									point8	8	6,368,847.0	1,837,234.9	1,051.00	13.98	0.00	0	0		
									point9	9	6,368,826.5	1,837,268.9	1,051.00	13.98	0.00	0	0		
									point10	10	6,368,844.5	1,837,279.6	1,051.00	13.98	0.00	0	0		
									point11	11	6,368,830.5	1,837,302.4	1,051.00	13.98					
13861 Melody Rd	W	13.98	13.98	0.00				0.00	point12	12	6,368,976.5	1,837,239.9	1,047.00	13.98	0.00	0	0		
									point13	13	6,368,946.0	1,837,240.8	1,047.00	13.98	0.00	0	0		
									point14	14	6,368,945.5	1,837,225.0	1,047.00	13.98	0.00	0	0		
									point15	15	6,368,935.5	1,837,225.2	1,047.00	13.98	0.00	0	0		
									point16	16	6,368,936.0	1,837,248.1	1,047.00	13.98	0.00	0	0		
									point17	17	6,368,909.5	1,837,248.8	1,047.00	13.98	0.00	0	0		
									point18	18	6,368,908.0	1,837,195.5	1,047.00	13.98	0.00	0	0		
									point19	19	6,368,975.5	1,837,193.8	1,047.00	13.98	0.00	0	0		
									point20	20	6,368,976.5	1,837,239.9	1,047.00	13.98					
3002 Calle Allejandro	W	13.98	13.98	0.00				0.00	point21	21	6,368,764.0	1,837,603.0	1,032.00	13.98	0.00	0	0		
									point22	22	6,368,783.0	1,837,592.8	1,032.00	13.98	0.00	0	0		
									point23	23	6,368,793.0	1,837,593.0	1,032.00	13.98	0.00	0	0		
									point24	24	6,368,793.0	1,837,598.0	1,032.00	13.98	0.00	0	0		
									point25	25	6,368,796.5	1,837,597.9	1,032.00	13.98	0.00	0	0		
									point26	26	6,368,796.5	1,837,609.2	1,032.00	13.98	0.00	0	0		
									point27	27	6,368,802.0	1,837,609.0	1,032.00	13.98	0.00	0	0		
									point28	28	6,368,801.5	1,837,621.1	1,032.00	13.98	0.00	0	0		
									point29	29	6,368,828.0	1,837,622.0	1,032.00	13.98	0.00	0	0		
									point30	30	6,368,828.0	1,837,615.5	1,032.00	13.98	0.00	0	0		
									point31	31	6,368,840.0	1,837,615.9	1,032.00	13.98	0.00	0	0		
									point32	32	6,368,840.0	1,837,614.6	1,032.00	13.98	0.00	0	0		
									point33	33	6,368,850.5	1,837,614.9	1,032.00	13.98	0.00	0	0		
									point34	34	6,368,851.0	1,837,606.5	1,032.00	13.98	0.00	0	0		
									point35	35	6,368,854.0	1,837,606.6	1,032.00	13.98	0.00	0	0		

									point36	36	6,368,854.5	1,837,590.0	1,032.00	13.98	0.00	0	0		
									point37	37	6,368,856.5	1,837,589.8	1,032.00	13.98	0.00	0	0		
									point38	38	6,368,857.5	1,837,568.9	1,032.00	13.98	0.00	0	0		
									point39	39	6,368,835.0	1,837,568.0	1,032.00	13.98	0.00	0	0		
									point40	40	6,368,835.0	1,837,563.9	1,032.00	13.98	0.00	0	0		
									point41	41	6,368,795.0	1,837,562.9	1,032.00	13.98	0.00	0	0		
									point42	42	6,368,795.0	1,837,566.4	1,032.00	13.98	0.00	0	0		
									point43	43	6,368,776.0	1,837,565.8	1,032.00	13.98	0.00	0	0		
									point44	44	6,368,750.5	1,837,580.1	1,032.00	13.98	0.00	0	0		
									point45	45	6,368,764.0	1,837,603.0	1,032.00	13.98					
3003 Calle Allejandro	W	13.98	13.98	0.00				0.00	point46	46	6,368,996.5	1,837,670.1	1,020.00	13.98	0.00	0	0		
									point47	47	6,369,013.5	1,837,691.0	1,020.00	13.98	0.00	0	0		
									point48	48	6,369,040.0	1,837,669.2	1,020.00	13.98	0.00	0	0		
									point49	49	6,369,044.0	1,837,674.0	1,020.00	13.98	0.00	0	0		
									point50	50	6,369,042.5	1,837,675.4	1,020.00	13.98	0.00	0	0		
									point51	51	6,369,052.5	1,837,687.6	1,020.00	13.98	0.00	0	0		
									point52	52	6,369,054.0	1,837,686.2	1,020.00	13.98	0.00	0	0		
									point53	53	6,369,057.5	1,837,690.1	1,020.00	13.98	0.00	0	0		
									point54	54	6,369,055.5	1,837,691.6	1,020.00	13.98	0.00	0	0		
									point55	55	6,369,066.5	1,837,704.9	1,020.00	13.98	0.00	0	0		
									point56	56	6,369,091.0	1,837,684.6	1,020.00	13.98	0.00	0	0		
									point57	57	6,369,071.5	1,837,660.8	1,020.00	13.98	0.00	0	0		
									point58	58	6,369,073.5	1,837,658.9	1,020.00	13.98	0.00	0	0		
									point59	59	6,369,068.0	1,837,651.9	1,020.00	13.98	0.00	0	0		
									point60	60	6,369,070.5	1,837,649.9	1,020.00	13.98	0.00	0	0		
									point61	61	6,369,059.5	1,837,636.5	1,020.00	13.98	0.00	0	0		
									point62	62	6,369,057.5	1,837,638.0	1,020.00	13.98	0.00	0	0		
									point63	63	6,369,047.0	1,837,625.1	1,020.00	13.98	0.00	0	0		
									point64	64	6,369,026.5	1,837,641.9	1,020.00	13.98	0.00	0	0		
									point65	65	6,369,028.0	1,837,644.0	1,020.00	13.98	0.00	0	0		
									point66	66	6,368,996.5	1,837,670.1	1,020.00	13.98					
3006 Calle Mesquite	W	13.98	13.98	0.00				0.00	point67	67	6,369,469.5	1,837,703.5	1,007.00	13.98	0.00	0	0		
									point68	68	6,369,549.5	1,837,706.9	1,007.00	13.98	0.00	0	0		
									point69	69	6,369,550.0	1,837,687.1	1,007.00	13.98	0.00	0	0		
									point70	70	6,369,538.5	1,837,686.6	1,007.00	13.98	0.00	0	0		
									point71	71	6,369,538.5	1,837,683.0	1,007.00	13.98	0.00	0	0		
									point72	72	6,369,533.0	1,837,682.8	1,007.00	13.98	0.00	0	0		
									point73	73	6,369,533.0	1,837,670.2	1,007.00	13.98	0.00	0	0		
									point74	74	6,369,539.5	1,837,665.5	1,007.00	13.98	0.00	0	0		
									point75	75	6,369,561.5	1,837,665.8	1,007.00	13.98	0.00	0	0		
									point76	76	6,369,562.5	1,837,640.2	1,007.00	13.98	0.00	0	0		
									point77	77	6,369,479.0	1,837,638.8	1,007.00	13.98	0.00	0	0		
									point78	78	6,369,480.5	1,837,674.9	1,007.00	13.98	0.00	0	0		
									point79	79	6,369,463.5	1,837,674.1	1,007.00	13.98	0.00	0	0		
									point80	80	6,369,463.0	1,837,691.5	1,007.00	13.98	0.00	0	0		
									point81	81	6,369,470.0	1,837,691.8	1,007.00	13.98	0.00	0	0		
									point82	82	6,369,469.5	1,837,701.4	1,007.00	13.98					
3010 Calle Mesquite	W	13.98	13.98	0.00				0.00	point83	83	6,369,450.0	1,837,856.6	1,025.00	13.98	0.00	0	0		
									point84	84	6,369,489.5	1,837,853.1	1,025.00	13.98	0.00	0	0		

									point85	85	6,369,488.0	1,837,837.2	1,025.00	13.98	0.00	0	0		
									point86	86	6,369,495.0	1,837,836.6	1,025.00	13.98	0.00	0	0		
									point87	87	6,369,494.0	1,837,828.0	1,025.00	13.98	0.00	0	0		
									point88	88	6,369,491.5	1,837,828.2	1,025.00	13.98	0.00	0	0		
									point89	89	6,369,490.5	1,837,815.1	1,025.00	13.98	0.00	0	0		
									point90	90	6,369,489.0	1,837,815.2	1,025.00	13.98	0.00	0	0		
									point91	91	6,369,485.0	1,837,769.9	1,025.00	13.98	0.00	0	0		
									point92	92	6,369,458.0	1,837,772.2	1,025.00	13.98	0.00	0	0		
									point93	93	6,369,460.5	1,837,799.5	1,025.00	13.98	0.00	0	0		
									point94	94	6,369,445.0	1,837,800.9	1,025.00	13.98	0.00	0	0		
									point95	95	6,369,450.0	1,837,856.6	1,025.00	13.98					
3015 Calle Mesquite	W	13.98	13.98	0.00				0.00	point96	96	6,369,749.0	1,837,752.2	1,018.00	13.98	0.00	0	0		
									point97	97	6,369,746.0	1,837,795.8	1,018.00	13.98	0.00	0	0		
									point98	98	6,369,756.5	1,837,796.5	1,018.00	13.98	0.00	0	0		
									point99	99	6,369,754.5	1,837,822.5	1,018.00	13.98	0.00	0	0		
									point100	100	6,369,757.5	1,837,822.8	1,018.00	13.98	0.00	0	0		
									point101	101	6,369,762.5	1,837,828.5	1,018.00	13.98	0.00	0	0		
									point102	102	6,369,762.0	1,837,835.9	1,018.00	13.98	0.00	0	0		
									point103	103	6,369,757.0	1,837,840.2	1,018.00	13.98	0.00	0	0		
									point104	104	6,369,753.0	1,837,839.9	1,018.00	13.98	0.00	0	0		
									point105	105	6,369,752.5	1,837,843.1	1,018.00	13.98	0.00	0	0		
									point106	106	6,369,733.0	1,837,841.5	1,018.00	13.98	0.00	0	0		
									point107	107	6,369,731.5	1,837,855.0	1,018.00	13.98	0.00	0	0		
									point108	108	6,369,735.0	1,837,855.2	1,018.00	13.98	0.00	0	0		
									point109	109	6,369,734.5	1,837,864.1	1,018.00	13.98	0.00	0	0		
									point110	110	6,369,707.0	1,837,861.9	1,018.00	13.98	0.00	0	0		
									point111	111	6,369,709.5	1,837,840.1	1,018.00	13.98	0.00	0	0		
									point112	112	6,369,702.5	1,837,839.6	1,018.00	13.98	0.00	0	0		
									point113	113	6,369,703.0	1,837,832.6	1,018.00	13.98	0.00	0	0		
									point114	114	6,369,685.5	1,837,831.2	1,018.00	13.98	0.00	0	0		
									point115	115	6,369,686.0	1,837,825.4	1,018.00	13.98	0.00	0	0		
									point116	116	6,369,682.0	1,837,825.0	1,018.00	13.98	0.00	0	0		
									point117	117	6,369,683.5	1,837,804.9	1,018.00	13.98	0.00	0	0		
									point118	118	6,369,687.5	1,837,805.2	1,018.00	13.98	0.00	0	0		
									point119	119	6,369,688.0	1,837,799.1	1,018.00	13.98	0.00	0	0		
									point120	120	6,369,705.0	1,837,800.5	1,018.00	13.98	0.00	0	0		
									point121	121	6,369,705.5	1,837,793.1	1,018.00	13.98	0.00	0	0		
									point122	122	6,369,710.5	1,837,793.5	1,018.00	13.98	0.00	0	0		
									point123	123	6,369,713.5	1,837,775.4	1,018.00	13.98	0.00	0	0		
									point124	124	6,369,718.5	1,837,775.1	1,018.00	13.98	0.00	0	0		
									point125	125	6,369,721.0	1,837,750.0	1,018.00	13.98	0.00	0	0		
									point126	126	6,369,749.0	1,837,752.2	1,018.00	13.98					
3007 Calle Mesquite	W	13.98	13.98	0.00				0.00	point127	127	6,369,684.0	1,837,623.5	1,003.00	13.98	0.00	0	0		
									point128	128	6,369,680.5	1,837,660.8	1,003.00	13.98	0.00	0	0		
									point129	129	6,369,713.0	1,837,663.0	1,003.00	13.98	0.00	0	0		
									point130	130	6,369,709.0	1,837,707.1	1,003.00	13.98	0.00	0	0		
									point131	131	6,369,751.0	1,837,710.4	1,003.00	13.98	0.00	0	0		
									point132	132	6,369,759.0	1,837,631.1	1,003.00	13.98	0.00	0	0		
									point133	133	6,369,684.0	1,837,623.5	1,003.00	13.98					

14061 Campo Rd	W	13.98	13.98	0.00				0.00	point134	134	6,370,485.5	1,838,490.9	985.00	13.98	0.00	0	0		
									point135	135	6,370,478.5	1,838,490.9	985.00	13.98	0.00	0	0		
									point136	136	6,370,478.5	1,838,489.9	985.00	13.98	0.00	0	0		
									point137	137	6,370,447.5	1,838,489.8	985.00	13.98	0.00	0	0		
									point138	138	6,370,447.5	1,838,490.6	985.00	13.98	0.00	0	0		
									point139	139	6,370,441.0	1,838,490.6	985.00	13.98	0.00	0	0		
									point140	140	6,370,441.5	1,838,454.2	985.00	13.98	0.00	0	0		
									point141	141	6,370,446.5	1,838,454.2	985.00	13.98	0.00	0	0		
									point142	142	6,370,446.5	1,838,418.9	985.00	13.98	0.00	0	0		
									point143	143	6,370,417.5	1,838,418.6	985.00	13.98	0.00	0	0		
									point144	144	6,370,418.0	1,838,389.8	985.00	13.98	0.00	0	0		
									point145	145	6,370,481.0	1,838,390.2	985.00	13.98	0.00	0	0		
									point146	146	6,370,480.5	1,838,454.8	985.00	13.98	0.00	0	0		
									point147	147	6,370,486.0	1,838,454.8	985.00	13.98	0.00	0	0		
									point148	148	6,370,485.5	1,838,490.9	985.00	13.98					
14043 Highway 94	W	13.98	13.98	0.00				0.00	point149	149	6,370,459.0	1,838,795.4	1,000.00	13.98	0.00	0	0		
									point150	150	6,370,421.5	1,838,795.2	1,000.00	13.98	0.00	0	0		
									point151	151	6,370,421.5	1,838,788.5	1,000.00	13.98	0.00	0	0		
									point152	152	6,370,411.0	1,838,788.5	1,000.00	13.98	0.00	0	0		
									point153	153	6,370,411.5	1,838,754.5	1,000.00	13.98	0.00	0	0		
									point154	154	6,370,421.0	1,838,754.5	1,000.00	13.98	0.00	0	0		
									point155	155	6,370,421.0	1,838,714.2	1,000.00	13.98	0.00	0	0		
									point156	156	6,370,459.5	1,838,714.4	1,000.00	13.98	0.00	0	0		
									point157	157	6,370,459.0	1,838,795.4	1,000.00	13.98					
14023 Campo Rd	W	13.98	13.98	0.00				0.00	point158	158	6,370,480.5	1,838,895.0	1,002.00	13.98	0.00	0	0		
									point159	159	6,370,478.5	1,838,947.8	1,002.00	13.98	0.00	0	0		
									point160	160	6,370,462.0	1,838,947.1	1,002.00	13.98	0.00	0	0		
									point161	161	6,370,461.0	1,838,977.1	1,002.00	13.98	0.00	0	0		
									point162	162	6,370,431.5	1,838,976.2	1,002.00	13.98	0.00	0	0		
									point163	163	6,370,432.5	1,838,943.9	1,002.00	13.98	0.00	0	0		
									point164	164	6,370,421.0	1,838,943.5	1,002.00	13.98	0.00	0	0		
									point165	165	6,370,422.5	1,838,893.1	1,002.00	13.98	0.00	0	0		
									point166	166	6,370,480.5	1,838,895.0	1,002.00	13.98					
14075 Short Ct	W	13.98	13.98	0.00				0.00	point167	167	6,370,437.0	1,839,078.0	1,006.00	13.98	0.00	0	0		
									point168	168	6,370,403.0	1,839,078.5	1,006.00	13.98	0.00	0	0		
									point169	169	6,370,403.0	1,839,112.4	1,006.00	13.98	0.00	0	0		
									point170	170	6,370,360.5	1,839,113.5	1,006.00	13.98	0.00	0	0		
									point171	171	6,370,359.5	1,839,054.0	1,006.00	13.98	0.00	0	0		
									point172	172	6,370,401.0	1,839,053.2	1,006.00	13.98	0.00	0	0		
									point173	173	6,370,401.0	1,839,050.9	1,006.00	13.98	0.00	0	0		
									point174	174	6,370,436.5	1,839,050.2	1,006.00	13.98	0.00	0	0		
									point175	175	6,370,437.0	1,839,078.0	1,006.00	13.98					
14022 Highway 94 A	W	13.98	13.98	0.00				0.00	point176	176	6,370,749.5	1,839,200.6	1,008.00	13.98	0.00	0	0		
									point177	177	6,370,703.5	1,839,198.1	1,008.00	13.98	0.00	0	0		
									point178	178	6,370,704.5	1,839,185.4	1,008.00	13.98	0.00	0	0		
									point179	179	6,370,702.0	1,839,185.1	1,008.00	13.98	0.00	0	0		
									point180	180	6,370,703.0	1,839,172.1	1,008.00	13.98	0.00	0	0		
									point181	181	6,370,719.5	1,839,173.1	1,008.00	13.98	0.00	0	0		
									point182	182	6,370,719.5	1,839,168.0	1,008.00	13.98	0.00	0	0		

									point183	183	6,370,727.5	1,839,168.5	1,008.00	13.98	0.00	0	0		
									point184	184	6,370,727.5	1,839,173.4	1,008.00	13.98	0.00	0	0		
									point185	185	6,370,750.5	1,839,174.8	1,008.00	13.98	0.00	0	0		
									point186	186	6,370,749.5	1,839,200.6	1,008.00	13.98					
14022 Highway 94 B	W	13.98	13.98	0.00				0.00	point187	187	6,370,792.0	1,839,193.2	1,008.00	13.98	0.00	0	0		
									point188	188	6,370,831.5	1,839,193.4	1,008.00	13.98	0.00	0	0		
									point189	189	6,370,832.0	1,839,173.8	1,008.00	13.98	0.00	0	0		
									point190	190	6,370,792.0	1,839,173.6	1,008.00	13.98	0.00	0	0		
									point191	191	6,370,792.0	1,839,193.2	1,008.00	13.98					
14024 Highway 94	W	13.98	13.98	0.00				0.00	point192	192	6,370,906.5	1,838,959.0	1,014.00	13.98	0.00	0	0		
									point193	193	6,370,904.5	1,838,999.6	1,014.00	13.98	0.00	0	0		
									point194	194	6,370,923.0	1,839,000.6	1,014.00	13.98	0.00	0	0		
									point195	195	6,370,923.0	1,838,994.9	1,014.00	13.98	0.00	0	0		
									point196	196	6,370,926.0	1,838,995.1	1,014.00	13.98	0.00	0	0		
									point197	197	6,370,925.0	1,839,012.5	1,014.00	13.98	0.00	0	0		
									point198	198	6,370,951.0	1,839,013.9	1,014.00	13.98	0.00	0	0		
									point199	199	6,370,951.5	1,839,001.8	1,014.00	13.98	0.00	0	0		
									point200	200	6,370,957.5	1,839,002.0	1,014.00	13.98	0.00	0	0		
									point201	201	6,370,959.5	1,838,961.9	1,014.00	13.98	0.00	0	0		
									point202	202	6,370,906.5	1,838,959.0	1,014.00	13.98					
14018 Las Palmas Rd	W	13.98	13.98	0.00				0.00	point203	203	6,370,828.0	1,838,415.0	1,011.00	13.98	0.00	0	0		
									point204	204	6,370,827.5	1,838,430.5	1,011.00	13.98	0.00	0	0		
									point205	205	6,370,839.0	1,838,430.6	1,011.00	13.98	0.00	0	0		
									point206	206	6,370,839.0	1,838,439.1	1,011.00	13.98	0.00	0	0		
									point207	207	6,370,823.5	1,838,439.0	1,011.00	13.98	0.00	0	0		
									point208	208	6,370,823.5	1,838,430.6	1,011.00	13.98	0.00	0	0		
									point209	209	6,370,806.0	1,838,430.5	1,011.00	13.98	0.00	0	0		
									point210	210	6,370,805.5	1,838,461.2	1,011.00	13.98	0.00	0	0		
									point211	211	6,370,813.0	1,838,461.4	1,011.00	13.98	0.00	0	0		
									point212	212	6,370,813.0	1,838,475.9	1,011.00	13.98	0.00	0	0		
									point213	213	6,370,828.0	1,838,476.0	1,011.00	13.98	0.00	0	0		
									point214	214	6,370,828.0	1,838,478.8	1,011.00	13.98	0.00	0	0		
									point215	215	6,370,840.0	1,838,478.9	1,011.00	13.98	0.00	0	0		
									point216	216	6,370,840.0	1,838,474.4	1,011.00	13.98	0.00	0	0		
									point217	217	6,370,856.0	1,838,474.5	1,011.00	13.98	0.00	0	0		
									point218	218	6,370,856.0	1,838,450.5	1,011.00	13.98	0.00	0	0		
									point219	219	6,370,871.0	1,838,450.6	1,011.00	13.98	0.00	0	0		
									point220	220	6,370,871.5	1,838,422.2	1,011.00	13.98	0.00	0	0		
									point221	221	6,370,858.0	1,838,422.1	1,011.00	13.98	0.00	0	0		
									point222	222	6,370,858.0	1,838,418.5	1,011.00	13.98	0.00	0	0		
									point223	223	6,370,842.5	1,838,418.4	1,011.00	13.98	0.00	0	0		
									point224	224	6,370,842.5	1,838,415.1	1,011.00	13.98	0.00	0	0		
									point225	225	6,370,828.0	1,838,415.0	1,011.00	13.98					
14013 Las Palmas Rd	W	13.98	13.98	0.00				0.00	point226	226	6,370,872.5	1,838,285.2	996.00	13.98	0.00	0	0		
									point227	227	6,370,843.0	1,838,285.4	996.00	13.98	0.00	0	0		
									point228	228	6,370,842.5	1,838,261.8	996.00	13.98	0.00	0	0		
									point229	229	6,370,838.5	1,838,261.8	996.00	13.98	0.00	0	0		
									point230	230	6,370,838.5	1,838,241.5	996.00	13.98	0.00	0	0		
									point231	231	6,370,810.5	1,838,241.8	996.00	13.98	0.00	0	0		

									point232	232	6,370,810.5	1,838,200.2	996.00	13.98	0.00	0	0			
									point233	233	6,370,834.0	1,838,200.1	996.00	13.98	0.00	0	0			
									point234	234	6,370,834.0	1,838,177.1	996.00	13.98	0.00	0	0			
									point235	235	6,370,872.0	1,838,177.0	996.00	13.98	0.00	0	0			
									point236	236	6,370,872.0	1,838,203.6	996.00	13.98	0.00	0	0			
									point237	237	6,370,870.0	1,838,203.6	996.00	13.98	0.00	0	0			
									point238	238	6,370,870.0	1,838,237.5	996.00	13.98	0.00	0	0			
									point239	239	6,370,872.0	1,838,237.5	996.00	13.98	0.00	0	0			
									point240	240	6,370,872.5	1,838,285.2	996.00	13.98						
Fire House	W	13.98	13.98	0.00				0.00	point241	241	6,371,417.0	1,836,939.6	948.00	13.98	0.00	0	0			
									point242	242	6,371,421.0	1,836,894.8	948.00	13.98	0.00	0	0			
									point243	243	6,371,419.5	1,836,894.6	948.00	13.98	0.00	0	0			
									point244	244	6,371,420.0	1,836,885.2	948.00	13.98	0.00	0	0			
									point245	245	6,371,373.0	1,836,880.4	948.00	13.98	0.00	0	0			
									point246	246	6,371,372.5	1,836,891.0	948.00	13.98	0.00	0	0			
									point247	247	6,371,313.5	1,836,886.9	948.00	13.98	0.00	0	0			
									point248	248	6,371,312.0	1,836,901.5	948.00	13.98	0.00	0	0			
									point249	249	6,371,297.0	1,836,900.2	948.00	13.98	0.00	0	0			
									point250	250	6,371,295.0	1,836,930.1	948.00	13.98	0.00	0	0			
									point251	251	6,371,321.5	1,836,932.2	948.00	13.98	0.00	0	0			
									point252	252	6,371,321.0	1,836,940.9	948.00	13.98	0.00	0	0			
									point253	253	6,371,339.5	1,836,942.4	948.00	13.98	0.00	0	0			
									point254	254	6,371,340.5	1,836,933.6	948.00	13.98	0.00	0	0			
									point255	255	6,371,364.0	1,836,935.6	948.00	13.98	0.00	0	0			
									point256	256	6,371,364.0	1,836,939.8	948.00	13.98	0.00	0	0			
									point257	257	6,371,409.0	1,836,943.5	948.00	13.98	0.00	0	0			
									point258	258	6,371,409.5	1,836,939.0	948.00	13.98	0.00	0	0			
									point259	259	6,371,417.0	1,836,939.6	948.00	13.98						
Fire House Garage	W	13.98	13.98	0.00				0.00	point260	260	6,371,533.0	1,837,042.2	948.00	13.98	0.00	0	0			
									point261	261	6,371,542.0	1,837,034.0	948.00	13.98	0.00	0	0			
									point262	262	6,371,543.5	1,837,036.0	948.00	13.98	0.00	0	0			
									point263	263	6,371,565.5	1,837,016.0	948.00	13.98	0.00	0	0			
									point264	264	6,371,563.5	1,837,013.9	948.00	13.98	0.00	0	0			
									point265	265	6,371,570.0	1,837,007.5	948.00	13.98	0.00	0	0			
									point266	266	6,371,554.5	1,836,990.6	948.00	13.98	0.00	0	0			
									point267	267	6,371,547.5	1,836,997.1	948.00	13.98	0.00	0	0			
									point268	268	6,371,539.0	1,836,988.2	948.00	13.98	0.00	0	0			
									point269	269	6,371,546.5	1,836,981.4	948.00	13.98	0.00	0	0			
									point270	270	6,371,536.5	1,836,970.6	948.00	13.98	0.00	0	0			
									point271	271	6,371,541.5	1,836,966.2	948.00	13.98	0.00	0	0			
									point272	272	6,371,490.5	1,836,911.0	948.00	13.98	0.00	0	0			
									point273	273	6,371,488.5	1,836,913.0	948.00	13.98	0.00	0	0			
									point274	274	6,371,478.5	1,836,902.5	948.00	13.98	0.00	0	0			
									point275	275	6,371,435.0	1,836,944.8	948.00	13.98	0.00	0	0			
									point276	276	6,371,444.5	1,836,954.9	948.00	13.98	0.00	0	0			
									point277	277	6,371,442.0	1,836,956.8	948.00	13.98	0.00	0	0			
									point278	278	6,371,477.0	1,836,994.2	948.00	13.98	0.00	0	0			
									point279	279	6,371,475.5	1,836,995.8	948.00	13.98	0.00	0	0			
									point280	280	6,371,492.0	1,837,013.9	948.00	13.98	0.00	0	0			

									point281	281	6,371,500.0	1,837,006.2	948.00	13.98	0.00	0	0		
									point282	282	6,371,533.0	1,837,042.2	948.00	13.98					
Resservation Church	W	13.98	13.98	0.00				0.00	point283	283	6,370,693.5	1,836,303.6	901.00	13.98	0.00	0	0		
									point284	284	6,370,632.5	1,836,302.5	901.00	13.98	0.00	0	0		
									point285	285	6,370,633.5	1,836,251.4	901.00	13.98	0.00	0	0		
									point286	286	6,370,694.5	1,836,252.5	901.00	13.98	0.00	0	0		
									point287	287	6,370,693.5	1,836,303.6	901.00	13.98					

Ldn Consulting			13 August 2014	
Ldn Consulting			TNM 2.5	
INPUT: TERRAIN LINES				
PROJECT/CONTRACT:	SR 94 - Jamul Reservation Access			
RUN:	Existing			
Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
Terrain Line1	1	6,371,795.5	1,836,325.4	908.00
	2	6,371,641.0	1,836,492.1	931.00
	3	6,371,621.5	1,836,515.8	931.00
	4	6,371,579.5	1,836,535.1	931.00
	5	6,371,520.0	1,836,597.4	932.00
	6	6,371,562.5	1,836,648.1	941.00
	7	6,371,647.0	1,836,692.1	959.00
	8	6,371,657.5	1,836,696.2	959.00
	9	6,371,747.0	1,836,717.0	980.00
	10	6,371,762.5	1,836,722.8	981.70
	11	6,371,774.0	1,836,734.4	980.00
	12	6,371,859.0	1,836,780.8	962.00
	13	6,371,868.0	1,836,785.4	962.00
	14	6,372,024.5	1,836,841.1	927.00
	15	6,372,196.0	1,836,861.1	911.00
	16	6,372,296.0	1,836,896.1	913.40
	17	6,372,359.5	1,836,880.6	912.50
	18	6,372,407.0	1,836,864.6	910.00
	19	6,372,502.5	1,836,758.0	900.50
	20	6,372,477.5	1,836,642.5	895.00
	21	6,372,501.5	1,836,393.6	885.00
	22	6,372,634.0	1,836,137.1	875.00
	23	6,372,767.0	1,835,883.8	865.00
	24	6,372,997.5	1,835,602.8	855.00

	25	6,373,086.0	1,835,529.1	852.00
	26	6,373,096.5	1,835,383.6	852.00
	27	6,373,246.5	1,835,379.0	869.00
	28	6,373,254.5	1,835,378.1	870.00
	29	6,373,389.5	1,835,292.5	907.40
	30	6,373,394.5	1,835,259.8	905.00
	31	6,373,392.0	1,835,231.8	900.00
	32	6,373,381.0	1,835,201.4	890.00
	33	6,373,382.0	1,835,166.6	884.00
	34	6,373,387.5	1,835,123.0	880.00
	35	6,373,398.0	1,835,039.5	867.00
	36	6,373,402.0	1,834,951.6	837.00
	37	6,373,439.5	1,834,878.1	825.00
	38	6,373,445.5	1,834,858.9	823.00
	39	6,373,535.5	1,834,625.2	818.00
	40	6,373,541.5	1,834,358.9	815.00
Terrain Line2	41	6,371,670.0	1,836,253.6	915.00
	42	6,371,747.0	1,836,123.9	911.00
	43	6,371,833.0	1,835,951.0	911.00
	44	6,371,910.5	1,835,837.5	911.00
	45	6,371,911.5	1,835,815.8	912.00
	46	6,371,896.5	1,835,746.8	912.00
	47	6,371,837.0	1,835,596.6	910.00
	48	6,371,847.0	1,835,538.5	908.00
	49	6,371,914.0	1,835,444.0	905.00
	50	6,371,968.0	1,835,396.2	895.00
	51	6,372,061.5	1,835,333.5	888.00
	52	6,372,130.5	1,835,260.9	873.00
	53	6,372,223.0	1,835,144.1	865.00
	54	6,372,283.5	1,835,076.6	861.00
	55	6,372,401.0	1,834,966.2	859.00
	56	6,372,482.5	1,834,880.9	861.00
	57	6,372,511.5	1,834,844.8	864.00
	58	6,372,527.0	1,834,817.2	865.00
	59	6,372,540.0	1,834,787.9	864.00
	60	6,372,550.5	1,834,752.6	864.00

	61	6,372,559.0	1,834,721.5	864.00
	62	6,372,564.5	1,834,685.0	864.00
	63	6,372,559.0	1,834,637.8	864.00
	64	6,372,533.0	1,834,563.8	864.00
Terrain Line3	65	6,370,927.5	1,837,233.0	945.00
	66	6,371,007.5	1,837,209.4	945.00
	67	6,371,155.5	1,837,211.5	970.00
	68	6,371,285.0	1,837,190.5	983.00
	69	6,371,301.0	1,837,187.9	983.20
	70	6,371,330.0	1,837,162.5	983.00
	71	6,371,360.5	1,837,119.5	980.00
	72	6,371,389.0	1,837,040.9	968.00
	73	6,371,405.0	1,837,004.5	951.00
Terrain Line4	74	6,371,094.5	1,836,938.1	937.00
	75	6,371,126.0	1,836,957.5	941.00
	76	6,371,131.0	1,836,964.9	945.00
	77	6,371,165.0	1,836,985.5	948.00
	78	6,371,233.5	1,837,005.4	950.00
	79	6,371,284.0	1,836,995.6	950.00
	80	6,371,393.5	1,836,995.9	950.00
	81	6,371,419.0	1,837,011.2	950.00
	82	6,371,440.5	1,837,072.0	950.00
	83	6,371,469.0	1,837,170.9	953.00
	84	6,371,512.5	1,837,208.6	954.00
Terrain Line5	85	6,371,541.0	1,837,185.2	951.00
	86	6,371,534.5	1,837,157.4	941.00
	87	6,371,542.0	1,837,136.4	940.00
	88	6,371,566.5	1,837,082.5	940.00
	89	6,371,573.5	1,837,061.8	949.00
	90	6,371,583.5	1,837,026.6	949.00
	91	6,371,569.0	1,836,983.5	949.00
	92	6,371,473.0	1,836,886.9	949.00
	93	6,371,303.5	1,836,869.0	949.00
	94	6,371,246.0	1,836,857.9	949.00
	95	6,371,206.0	1,836,892.2	949.00
	96	6,371,146.0	1,836,961.8	949.00

Terrain Line6	97	6,372,011.5	1,838,160.2	1,001.00
	98	6,371,873.0	1,838,054.9	1,022.00
	99	6,371,810.0	1,837,997.6	1,022.00
	100	6,371,760.0	1,837,983.6	1,022.00
	101	6,371,717.5	1,837,977.1	1,030.00
	102	6,371,679.0	1,837,985.9	1,030.50
	103	6,371,621.0	1,837,990.9	1,026.40
	104	6,371,597.5	1,838,029.9	1,028.00
	105	6,371,551.0	1,838,081.2	1,037.00
	106	6,371,537.5	1,838,103.8	1,041.00
	107	6,371,519.5	1,838,121.5	1,041.00
	108	6,371,473.5	1,838,139.9	1,042.00
	109	6,371,390.0	1,838,133.0	1,045.00
	110	6,371,343.5	1,838,103.9	1,045.00
	111	6,371,314.0	1,838,099.2	1,045.00
	112	6,371,234.5	1,838,041.2	1,040.00
	113	6,371,163.5	1,837,981.6	1,025.00
	114	6,371,079.5	1,837,895.9	1,005.00
	115	6,370,988.5	1,837,843.5	990.00
	116	6,370,732.0	1,837,676.2	960.00
Terrain Line7	117	6,371,013.0	1,836,953.9	936.40
	118	6,370,977.5	1,836,855.1	950.00
	119	6,370,946.0	1,836,781.5	952.40
	120	6,370,919.0	1,836,730.4	950.00
	121	6,370,760.0	1,836,622.0	893.00
	122	6,370,694.5	1,836,656.1	983.00
	123	6,370,648.5	1,836,722.1	896.00
	124	6,370,595.0	1,836,803.6	899.00
	125	6,370,547.0	1,836,906.8	903.00
	126	6,370,548.5	1,836,918.2	910.00
	127	6,370,553.0	1,836,963.4	911.00
	128	6,370,547.5	1,837,009.9	914.00
	129	6,370,530.0	1,837,055.5	918.00
	130	6,370,505.5	1,837,090.1	919.00
	131	6,370,389.0	1,837,187.1	920.00
	132	6,370,318.0	1,837,229.5	930.00

	133	6,370,251.5	1,837,267.1	954.00
	134	6,370,180.5	1,837,293.1	956.00
	135	6,370,152.0	1,837,310.8	959.00
	136	6,370,085.5	1,837,328.5	961.00
	137	6,370,032.5	1,837,372.6	962.00
	138	6,370,008.0	1,837,385.5	964.00
	139	6,369,984.0	1,837,393.8	965.00
	140	6,369,957.5	1,837,390.9	966.00
	141	6,369,935.5	1,837,392.1	967.00
	142	6,369,919.5	1,837,392.1	968.00
	143	6,369,908.0	1,837,398.0	970.00
	144	6,369,883.5	1,837,407.6	971.00
	145	6,369,847.5	1,837,433.1	972.00
	146	6,369,828.5	1,837,447.2	973.00
	147	6,369,777.5	1,837,483.2	974.00
	148	6,369,764.0	1,837,486.8	975.00
	149	6,369,718.0	1,837,491.1	976.00
	150	6,369,692.5	1,837,500.5	988.00
	151	6,369,669.5	1,837,512.9	991.00
	152	6,369,666.0	1,837,498.2	992.00
	153	6,369,644.0	1,837,489.8	991.00
	154	6,369,620.0	1,837,450.2	995.00
	155	6,369,605.0	1,837,366.6	1,000.00
	156	6,369,577.5	1,837,262.1	1,015.00
	157	6,369,506.5	1,836,995.0	1,080.00
	158	6,369,494.0	1,836,975.0	1,083.00
	159	6,369,471.5	1,836,955.5	1,084.90
	160	6,369,469.0	1,836,948.4	1,084.00
	161	6,369,467.0	1,836,885.1	1,075.00
	162	6,369,476.0	1,836,835.6	1,071.70
	163	6,369,467.0	1,836,821.5	1,072.00
	164	6,369,439.5	1,836,719.4	1,077.80
Terrain Line8	165	6,370,564.5	1,835,881.5	903.00
	166	6,370,563.5	1,835,904.4	903.00
	167	6,370,555.0	1,835,917.1	903.00
	168	6,370,543.5	1,835,929.0	903.00

	169	6,370,529.5	1,835,955.4	903.00
	170	6,370,518.0	1,835,970.1	903.00
	171	6,370,534.5	1,835,970.0	903.00
	172	6,370,548.5	1,835,979.9	903.00
	173	6,370,580.0	1,836,016.0	903.00
	174	6,370,611.5	1,836,083.9	903.00
	175	6,370,638.5	1,836,159.8	903.00
	176	6,370,645.5	1,836,229.9	903.00
	177	6,370,623.0	1,836,258.2	903.00
	178	6,370,612.5	1,836,305.4	903.00
	179	6,370,622.5	1,836,311.1	903.00
	180	6,370,709.5	1,836,320.6	903.00
	181	6,370,790.5	1,836,314.9	895.00
	182	6,370,917.0	1,836,302.5	888.00
	183	6,371,051.5	1,836,315.0	901.00
	184	6,371,120.5	1,836,320.1	908.00
	185	6,371,484.0	1,836,299.9	940.00
	186	6,371,720.0	1,836,293.0	905.00
Terrain Line9	187	6,370,148.5	1,837,691.9	1,000.00
	188	6,370,183.5	1,837,668.1	1,000.00
	189	6,370,190.5	1,837,629.2	1,000.00
	190	6,370,186.0	1,837,602.5	1,000.00
	191	6,370,134.5	1,837,598.2	1,000.00
	192	6,370,083.5	1,837,595.9	1,000.00
	193	6,370,071.5	1,837,614.2	1,000.00
	194	6,370,034.0	1,837,630.1	1,000.00
	195	6,370,002.5	1,837,637.0	1,000.00
	196	6,369,955.5	1,837,628.0	1,000.00
	197	6,369,930.5	1,837,642.2	1,000.00
	198	6,369,901.0	1,837,655.9	1,000.00
	199	6,369,890.0	1,837,686.4	1,000.00
	200	6,369,869.5	1,837,668.4	1,000.00
	201	6,369,880.0	1,837,603.5	1,000.00
	202	6,369,814.5	1,837,607.0	1,000.00
	203	6,369,794.5	1,837,615.8	1,000.00
	204	6,369,778.5	1,837,606.4	1,000.00

	205	6,369,730.5	1,837,600.9	1,000.00
	206	6,369,681.0	1,837,593.2	1,000.00
	207	6,369,671.0	1,837,599.8	1,000.00
	208	6,369,656.5	1,837,628.0	1,000.00
	209	6,369,642.0	1,837,643.1	1,000.00
Terrain Line10	210	6,369,889.0	1,837,757.5	1,004.00
	211	6,369,802.0	1,837,746.0	1,013.00
	212	6,369,656.5	1,837,739.0	1,014.00
	213	6,369,637.5	1,837,834.2	1,017.00
Terrain Line11	214	6,371,055.5	1,838,142.2	1,011.00
	215	6,370,876.0	1,838,136.5	995.00
	216	6,370,799.5	1,838,145.8	993.00
	217	6,370,771.0	1,838,144.9	992.00
	218	6,370,733.0	1,838,123.2	992.00
	219	6,370,721.5	1,838,126.6	992.00
	220	6,370,711.5	1,838,141.0	992.00
	221	6,370,712.0	1,838,199.2	992.00
	222	6,370,709.5	1,838,238.9	992.00
	223	6,370,712.0	1,838,280.1	992.00
	224	6,370,725.5	1,838,288.9	992.00
	225	6,370,741.5	1,838,322.8	992.00
Terrain Line12	226	6,371,187.0	1,838,938.6	1,049.00
	227	6,370,868.5	1,838,921.2	1,011.00
	228	6,370,835.0	1,838,918.2	1,008.00
	229	6,370,792.5	1,838,910.6	1,003.00
	230	6,370,765.0	1,838,904.9	999.00
	231	6,370,739.5	1,838,892.2	995.00
	232	6,370,677.0	1,838,858.9	991.00
Terrain Line13	233	6,371,051.5	1,838,642.0	1,040.00
	234	6,370,945.5	1,838,634.6	1,028.00
	235	6,370,872.0	1,838,628.6	1,016.00
	236	6,370,827.5	1,838,628.9	1,010.00
	237	6,370,802.0	1,838,517.9	1,010.00
	238	6,370,802.5	1,838,406.0	1,010.00
	239	6,370,866.5	1,838,409.1	1,010.00
	240	6,370,867.0	1,838,388.8	1,010.00

	241	6,370,871.0	1,838,370.1	1,007.00
Terrain Line14	242	6,370,051.5	1,839,161.1	1,033.00
	243	6,370,422.0	1,839,178.9	1,009.00
	244	6,370,438.5	1,839,122.1	1,006.00
	245	6,370,439.5	1,839,107.1	1,006.00
	246	6,370,439.5	1,839,032.0	1,006.00
	247	6,370,491.5	1,839,003.8	1,002.00
	248	6,370,491.0	1,838,897.0	1,001.00
	249	6,370,472.0	1,838,826.5	999.00
	250	6,370,476.0	1,838,798.6	999.00
	251	6,370,468.5	1,838,704.6	999.00
	252	6,370,436.0	1,838,698.1	999.00
	253	6,370,419.0	1,838,687.6	999.00
	254	6,370,416.0	1,838,614.1	999.00
Terrain Line15	255	6,370,896.0	1,839,011.1	1,010.00
	256	6,370,911.0	1,839,030.9	1,010.00
	257	6,370,917.0	1,839,067.1	1,010.00
	258	6,370,925.5	1,839,082.6	1,010.00
	259	6,370,925.0	1,839,102.8	1,010.00
	260	6,370,925.0	1,839,163.9	1,010.00
	261	6,370,933.5	1,839,191.9	1,010.00
	262	6,370,936.0	1,839,216.8	1,010.00
	263	6,370,966.0	1,839,269.5	1,010.00
	264	6,370,968.0	1,839,303.5	1,010.00
	265	6,370,967.5	1,839,377.1	1,010.00
	266	6,370,939.5	1,839,386.2	1,010.00
	267	6,370,919.5	1,839,375.0	1,010.00
	268	6,370,868.0	1,839,359.9	1,010.00
	269	6,370,845.0	1,839,343.0	1,010.00
	270	6,370,834.5	1,839,318.9	1,010.00
	271	6,370,811.0	1,839,306.0	1,010.00
	272	6,370,764.5	1,839,276.6	1,010.00
	273	6,370,743.5	1,839,270.4	1,010.00
	274	6,370,686.5	1,839,294.0	1,010.00
Terrain Line16	275	6,370,116.0	1,839,507.4	1,080.00
	276	6,370,229.0	1,839,185.2	1,023.00

Ldn Consulting 8 August 2014
Ldn Consulting TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: SR 94 Improvements
RUN: No Build
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
R-1 - 13967 Highway 94	1	1	0.0	63.3	66	63.3	10	----	63.3	0.0	8	-8.0
R-2 - 13975 Highway 94	2	1	0.0	63.0	66	63.0	10	----	63.0	0.0	8	-8.0
R-3 - 14022 Hillside Dr	3	1	0.0	53.8	66	53.8	10	----	53.8	0.0	8	-8.0
R-4 - 14017 Hillside Dr	5	1	0.0	57.3	66	57.3	10	----	57.3	0.0	8	-8.0
R-5 - 14022 Highway 94 A	6	1	0.0	56.6	66	56.6	10	----	56.6	0.0	8	-8.0
R-6 - 14022 Highway 94 B	7	1	0.0	62.7	66	62.7	10	----	62.7	0.0	8	-8.0
R-7 - 14019 Highway 94	8	1	0.0	64.6	66	64.6	10	----	64.6	0.0	8	-8.0
R-8 - 14075 Short Ct	9	1	0.0	55.9	66	55.9	10	----	55.9	0.0	8	-8.0
R-9 - 14027 Hillsdie Dr	10	1	0.0	56.1	66	56.1	10	----	56.1	0.0	8	-8.0
R-10 - 14024 Highway 94	11	1	0.0	56.9	66	56.9	10	----	56.9	0.0	8	-8.0
R-11 - 14023 Campo Dr	12	1	0.0	55.8	66	55.8	10	----	55.8	0.0	8	-8.0
R-12 - 14043 Highway 94	14	1	0.0	50.9	66	50.9	10	----	50.9	0.0	8	-8.0
R-13 - 14051 Campo Rd	15	1	0.0	57.2	66	57.2	10	----	57.2	0.0	8	-8.0
R-14 - 14061 Campo Rd	16	1	0.0	42.8	66	42.8	10	----	42.8	0.0	8	-8.0
R-15 - 14018 Las Palmas Rd	17	1	0.0	57.5	66	57.5	10	----	57.5	0.0	8	-8.0
R-16 - 14013 Las Palmas Rd	18	1	0.0	56.9	66	56.9	10	----	56.9	0.0	8	-8.0
R-17 - 14031 Las Palmas Rd	20	1	0.0	51.4	66	51.4	10	----	51.4	0.0	8	-8.0
R-18 - 14066 Highway 94	21	1	0.0	54.5	66	54.5	10	----	54.5	0.0	8	-8.0
R-19 - 3023 Calle Mesquite	22	1	0.0	47.7	66	47.7	10	----	47.7	0.0	8	-8.0
R-20 - 3015 Calle Mesquite	23	1	0.0	49.6	66	49.6	10	----	49.6	0.0	8	-8.0
R-21 - 3007 Calle Mesquite	24	1	0.0	52.9	66	52.9	10	----	52.9	0.0	8	-8.0
R-22 - 14024 Peaceful Valley Ranch Rd	26	1	0.0	59.0	66	59.0	10	----	59.0	0.0	8	-8.0
R-23 - 14102 Peaceful Valley Ranch Rd	27	1	0.0	43.3	66	43.3	10	----	43.3	0.0	8	-8.0
R-24 - 44114 Campo Rd	28	1	0.0	47.0	66	47.0	10	----	47.0	0.0	8	-8.0

RESULTS: SOUND LEVELS **SR 94 Improvements**

R-25 - Jamul Reservation	30	1	0.0	47.1	66	47.1	10	----	47.1	0.0	8	-8.0
ST-1 - APN: 597-04-126	32	1	0.0	58.6	66	58.6	10	----	58.6	0.0	8	-8.0
ST-2 - 14020 Melody Rd	34	1	0.0	56.2	66	56.2	10	----	56.2	0.0	8	-8.0
ST-3 - 14024 Peaceful Valley Ranch Rd	36	1	0.0	70.6	66	70.6	10	Snd Lvl	70.6	0.0	8	-8.0
LT - 14145 Highway 94	37	1	0.0	63.3	66	63.3	10	----	63.3	0.0	8	-8.0

Dwelling Units	**# DUs**	**Noise Reduction**		
		Min	**Avg**	**Max**
		dB	**dB**	**dB**
All Selected	29	0.0	0.0	0.0
All Impacted	1	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

Ldn Consulting 8 August 2014
Ldn Consulting TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: SR 94 Improvements
RUN: No Build

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway Name	Width	Points Name	No.	Coordinates (pavement) X	Y	Z	Flow Control Control Device	Speed Constraint	Percent Vehicles Affected	Segment Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
SR-94 SB North of Melody Rd	12.0	point1	1	6,370,642.0	1,839,918.6	1,027.00				Average	
		point2	2	6,370,640.5	1,839,429.4	1,020.00				Average	
		point3	3	6,370,637.0	1,838,936.0	1,015.00				Average	
		point4	4	6,370,633.0	1,838,670.0	994.00				Average	
		point5	5	6,370,635.0	1,838,589.6	987.00				Average	
		point6	6	6,370,632.5	1,838,499.5	986.00				Average	
		point7	7	6,370,632.5	1,838,282.1	985.00				Average	
		point8	8	6,370,629.0	1,838,018.2	984.00				Average	
		point9	9	6,370,627.5	1,837,854.2	976.00				Average	
		point10	10	6,370,635.0	1,837,781.0	969.00				Average	
		point11	11	6,370,644.5	1,837,730.9	961.00				Average	
		point12	12	6,370,664.0	1,837,657.0	957.00				Average	
		point13	13	6,370,677.5	1,837,619.2	955.00					
SR-94 NB North of Melody Rd	12.0	point26	26	6,370,689.0	1,837,623.2	955.00				Average	
		point25	25	6,370,675.5	1,837,660.5	957.00				Average	
		point24	24	6,370,656.0	1,837,733.5	961.00				Average	
		point23	23	6,370,647.0	1,837,782.8	969.00				Average	
		point22	22	6,370,639.5	1,837,854.8	976.00				Average	
		point21	21	6,370,641.0	1,838,018.1	984.00				Average	
		point20	20	6,370,644.5	1,838,282.0	985.00				Average	
		point19	19	6,370,644.5	1,838,499.4	986.00				Average	
		point18	18	6,370,647.0	1,838,589.6	987.00				Average	
		point17	17	6,370,645.0	1,838,670.1	994.00				Average	
		point16	16	6,370,649.0	1,838,935.9	1,015.00				Average	
		point15	15	6,370,652.5	1,839,429.2	1,020.00				Average	

		point14	14	6,370,654.0	1,839,918.6	1,027.00					
SR-94 SB South of Melody Rd	12.0	point27	27	6,370,677.5	1,837,619.4	955.00				Average	
		point28	28	6,370,685.5	1,837,596.5	954.00				Average	
		point29	29	6,370,713.0	1,837,521.6	953.00				Average	
		point30	30	6,370,751.5	1,837,433.2	953.00				Average	
		point31	31	6,370,777.0	1,837,387.2	951.00				Average	
		point32	32	6,370,833.5	1,837,290.9	950.00				Average	
		point33	33	6,370,943.5	1,837,120.4	946.00				Average	
		point34	34	6,370,970.5	1,837,077.8	940.00				Average	
		point35	35	6,371,026.0	1,836,989.8	939.00				Average	
		point36	36	6,371,075.0	1,836,913.6	938.00				Average	
		point37	37	6,371,104.5	1,836,875.4	937.00				Average	
		point38	38	6,371,138.0	1,836,838.1	936.00				Average	
		point39	39	6,371,182.0	1,836,796.1	935.00				Average	
		point40	40	6,371,224.0	1,836,761.8	934.00				Average	
		point41	41	6,371,273.5	1,836,724.9	933.00				Average	
		point42	42	6,371,318.5	1,836,694.5	932.00				Average	
		point43	43	6,371,359.0	1,836,664.9	931.00				Average	
		point44	44	6,371,399.5	1,836,632.8	930.00				Average	
		point45	45	6,371,438.0	1,836,597.6	926.00				Average	
		point46	46	6,371,498.0	1,836,540.8	928.00				Average	
		point47	47	6,371,525.0	1,836,515.5	926.00				Average	
		point48	48	6,371,550.5	1,836,489.2	925.00				Average	
		point49	49	6,371,627.0	1,836,416.9	924.00				Average	
		point50	50	6,371,711.5	1,836,348.2	919.00				Average	
		point51	51	6,371,760.0	1,836,303.9	912.00				Average	
		point52	52	6,371,790.0	1,836,273.1	904.00					
SR-94 NB South of Melody Rd	12.0	point102	102	6,373,435.0	1,834,286.5	815.00				Average	
		point101	101	6,373,393.0	1,834,336.6	816.00				Average	
		point100	100	6,373,360.5	1,834,376.0	817.00				Average	
		point99	99	6,373,329.5	1,834,414.2	818.00				Average	
		point98	98	6,373,299.5	1,834,450.6	819.00				Average	
		point97	97	6,373,237.0	1,834,526.2	821.00				Average	
		point96	96	6,373,143.5	1,834,639.9	824.00				Average	
		point95	95	6,372,956.0	1,834,867.6	829.00				Average	
		point94	94	6,372,525.5	1,835,392.8	852.00				Average	
		point93	93	6,372,201.5	1,835,791.8	874.00				Average	
		point92	92	6,372,023.5	1,836,010.0	888.00				Average	
		point91	91	6,371,892.5	1,836,169.4	894.00				Average	

		point90	90	6,371,799.0	1,836,281.2	904.00					
Melody Rd WB West of SR-94	12.0	point103	103	6,370,653.5	1,837,621.1	955.00	Stop	0.00	100	Average	
		point104	104	6,370,614.5	1,837,615.9	955.00				Average	
		point105	105	6,370,526.5	1,837,608.6	955.00				Average	
		point106	106	6,370,450.5	1,837,603.5	960.00				Average	
		point107	107	6,370,352.5	1,837,598.1	970.00				Average	
		point108	108	6,370,258.5	1,837,589.4	980.00				Average	
		point109	109	6,370,169.5	1,837,581.9	988.00				Average	
		point110	110	6,370,112.0	1,837,577.0	991.00				Average	
		point111	111	6,370,049.5	1,837,572.1	992.00				Average	
		point112	112	6,369,868.5	1,837,560.9	993.00				Average	
		point113	113	6,369,709.0	1,837,556.1	994.00				Average	
		point114	114	6,369,635.0	1,837,551.6	995.00				Average	
		point115	115	6,369,568.5	1,837,545.9	996.00				Average	
		point116	116	6,369,240.5	1,837,518.1	1,009.00				Average	
		point117	117	6,369,042.0	1,837,501.6	1,021.00				Average	
		point118	118	6,368,978.0	1,837,498.5	1,025.00				Average	
		point119	119	6,368,756.5	1,837,492.1	1,036.00				Average	
		point120	120	6,368,609.0	1,837,490.0	1,040.00				Average	
		point121	121	6,368,532.5	1,837,488.6	1,041.00					
Melody Rd EB West of SR-94	12.0	point140	140	6,368,533.0	1,837,476.6	1,041.00				Average	
		point139	139	6,368,609.0	1,837,478.0	1,040.00				Average	
		point138	138	6,368,757.0	1,837,480.1	1,036.00				Average	
		point137	137	6,368,978.5	1,837,486.5	1,025.00				Average	
		point136	136	6,369,042.5	1,837,489.6	1,021.00				Average	
		point135	135	6,369,241.5	1,837,506.1	1,009.00				Average	
		point134	134	6,369,569.5	1,837,534.0	996.00				Average	
		point133	133	6,369,636.0	1,837,539.6	995.00				Average	
		point132	132	6,369,709.5	1,837,544.1	994.00				Average	
		point131	131	6,369,869.0	1,837,548.9	993.00				Average	
		point130	130	6,370,050.0	1,837,560.1	992.00				Average	
		point129	129	6,370,113.0	1,837,565.0	991.00				Average	
		point128	128	6,370,170.5	1,837,569.9	988.00				Average	
		point127	127	6,370,259.5	1,837,577.4	980.00				Average	
		point126	126	6,370,353.0	1,837,586.1	970.00				Average	
		point125	125	6,370,451.5	1,837,591.5	960.00				Average	
		point124	124	6,370,527.5	1,837,596.8	955.00				Average	
		point123	123	6,370,615.5	1,837,603.9	955.00				Average	
		point122	122	6,370,655.0	1,837,609.2	955.00					

Melody Rd WB East of SR-94	12.0	point141	141	6,371,648.0	1,836,977.9	946.00	Stop	0.00	100	Average	
		point142	142	6,371,580.5	1,837,154.1	950.00				Average	
		point143	143	6,371,548.5	1,837,238.9	955.00				Average	
		point144	144	6,371,536.5	1,837,264.2	957.00				Average	
		point145	145	6,371,514.0	1,837,298.9	960.00				Average	
		point146	146	6,371,465.0	1,837,353.6	965.00				Average	
		point147	147	6,371,396.0	1,837,424.4	970.00				Average	
		point148	148	6,371,368.0	1,837,454.0	971.00				Average	
		point149	149	6,371,310.0	1,837,506.8	971.50				Average	
		point150	150	6,371,245.5	1,837,551.4	970.00				Average	
		point151	151	6,371,176.0	1,837,586.4	970.50				Average	
		point152	152	6,371,095.5	1,837,611.5	970.70				Average	
		point153	153	6,371,002.5	1,837,632.8	970.00				Average	
		point154	154	6,370,945.0	1,837,633.0	968.00				Average	
		point155	155	6,370,889.0	1,837,629.1	965.00				Average	
		point156	156	6,370,803.0	1,837,622.0	960.00				Average	
		point157	157	6,370,743.0	1,837,616.5	955.00					
Melody Rd EB East of SR-94	12.0	point174	174	6,370,744.0	1,837,604.5	955.00	Stop	0.00	100	Average	
		point173	173	6,370,804.0	1,837,610.0	960.00				Average	
		point172	172	6,370,890.0	1,837,617.1	965.00				Average	
		point171	171	6,370,945.5	1,837,621.0	968.00				Average	
		point170	170	6,371,001.0	1,837,620.8	970.00				Average	
		point169	169	6,371,092.5	1,837,599.9	970.70				Average	
		point168	168	6,371,171.5	1,837,575.1	970.50				Average	
		point167	167	6,371,239.5	1,837,541.0	970.00				Average	
		point166	166	6,371,302.5	1,837,497.2	971.50				Average	
		point165	165	6,371,359.5	1,837,445.4	971.00				Average	
		point164	164	6,371,387.0	1,837,416.0	970.00				Average	
		point163	163	6,371,456.0	1,837,345.4	965.00				Average	
		point162	162	6,371,504.5	1,837,291.6	960.00				Average	
		point161	161	6,371,526.0	1,837,258.4	957.00				Average	
		point160	160	6,371,537.5	1,837,234.2	955.00				Average	
		point159	159	6,371,569.5	1,837,149.9	950.00				Average	
		point158	158	6,371,637.0	1,836,973.6	946.00					
Peacful Valley WB East of SR-94	12.0	point190	190	6,371,478.0	1,836,599.9	927.00				Average	
		point189	189	6,371,496.0	1,836,624.0	928.00				Average	
		point188	188	6,371,512.0	1,836,645.0	930.00				Average	
		point187	187	6,371,525.5	1,836,667.9	930.00				Average	
		point186	186	6,371,531.5	1,836,687.1	932.00				Average	

		point185	185	6,371,534.5	1,836,706.9	933.40				Average	
		point184	184	6,371,546.0	1,836,774.6	935.00				Average	
		point183	183	6,371,557.0	1,836,839.8	940.00				Average	
		point182	182	6,371,576.5	1,836,885.5	944.00				Average	
		point181	181	6,371,598.0	1,836,914.1	945.00				Average	
		point180	180	6,371,619.5	1,836,938.6	946.00				Average	
		point179	179	6,371,663.5	1,836,970.0	946.00				Average	
		point178	178	6,371,681.0	1,836,977.4	945.00				Average	
		point177	177	6,371,744.5	1,836,983.8	940.00				Average	
		point176	176	6,371,821.5	1,836,989.4	935.00				Average	
		point175	175	6,371,891.5	1,836,985.2	930.00					
Peacful Valley EB East of SR-94	12.0	point191	191	6,371,891.0	1,836,973.2	930.00				Average	
		point192	192	6,371,821.5	1,836,977.4	935.00				Average	
		point193	193	6,371,745.5	1,836,971.9	940.00				Average	
		point194	194	6,371,684.0	1,836,965.6	945.00				Average	
		point195	195	6,371,669.5	1,836,959.5	946.00				Average	
		point196	196	6,371,627.5	1,836,929.6	946.00				Average	
		point197	197	6,371,607.5	1,836,906.5	945.00				Average	
		point198	198	6,371,587.0	1,836,879.4	944.00				Average	
		point199	199	6,371,569.0	1,836,836.4	940.00				Average	
		point200	200	6,371,558.0	1,836,772.6	935.00				Average	
		point201	201	6,371,546.5	1,836,705.0	933.40				Average	
		point202	202	6,371,543.5	1,836,684.5	932.00				Average	
		point203	203	6,371,536.5	1,836,662.9	930.00				Average	
		point204	204	6,371,522.0	1,836,638.2	930.00				Average	
		point205	205	6,371,505.5	1,836,616.8	928.00				Average	
		point206	206	6,371,487.5	1,836,592.6	927.00					
SR-94 SB South of Melody Rd-2	12.0	point207	207	6,371,790.0	1,836,273.1	904.00				Average	
		point53	53	6,371,883.5	1,836,161.8	894.00				Average	
		point54	54	6,372,014.0	1,836,002.4	888.00				Average	
		point55	55	6,372,192.0	1,835,784.1	874.00				Average	
		point56	56	6,372,516.0	1,835,385.1	852.00				Average	
		point57	57	6,372,947.0	1,834,860.0	829.00				Average	
		point58	58	6,373,134.0	1,834,632.2	824.00				Average	
		point59	59	6,373,227.5	1,834,518.6	821.00				Average	
		point60	60	6,373,290.0	1,834,443.0	819.00				Average	
		point61	61	6,373,320.0	1,834,406.6	818.00				Average	
		point62	62	6,373,351.5	1,834,368.5	817.00				Average	
		point63	63	6,373,383.5	1,834,329.0	816.00				Average	

		point64	64	6,373,426.0	1,834,278.8	815.00					
SR-94 NB South of Melody Rd-2	12.0	point208	208	6,371,799.0	1,836,281.2	904.00				Average	
		point89	89	6,371,768.5	1,836,312.5	912.00				Average	
		point88	88	6,371,719.0	1,836,357.2	919.00				Average	
		point87	87	6,371,635.0	1,836,425.9	924.00				Average	
		point86	86	6,371,559.0	1,836,497.9	925.00				Average	
		point85	85	6,371,533.0	1,836,524.1	926.00				Average	
		point84	84	6,371,506.5	1,836,549.5	928.00				Average	
		point83	83	6,371,446.5	1,836,606.4	926.00				Average	
		point82	82	6,371,407.5	1,836,641.9	930.00				Average	
		point81	81	6,371,366.0	1,836,674.5	931.00				Average	
		point80	80	6,371,325.5	1,836,704.2	932.00				Average	
		point79	79	6,371,280.5	1,836,734.6	933.00				Average	
		point78	78	6,371,231.0	1,836,771.2	934.00				Average	
		point77	77	6,371,190.0	1,836,805.1	935.00				Average	
		point76	76	6,371,146.5	1,836,846.5	936.00				Average	
		point75	75	6,371,113.5	1,836,883.0	937.00				Average	
		point74	74	6,371,085.0	1,836,920.5	938.00				Average	
		point73	73	6,371,036.0	1,836,996.1	939.00				Average	
		point72	72	6,370,980.5	1,837,084.1	940.00				Average	
		point71	71	6,370,953.5	1,837,126.8	946.00				Average	
		point70	70	6,370,844.0	1,837,297.2	950.00				Average	
		point69	69	6,370,787.5	1,837,393.2	951.00				Average	
		point68	68	6,370,762.5	1,837,438.6	953.00				Average	
		point67	67	6,370,724.0	1,837,526.1	953.00				Average	
		point66	66	6,370,696.5	1,837,600.5	954.00				Average	
		point65	65	6,370,689.0	1,837,623.1	955.00					

Ldn Consulting **8 August 2014**
Ldn Consulting **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: **SR 94 Improvements**
RUN: **No Build**

Roadway	Points											
Name	Name	No.	Segment									
			Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
SR-94 SB North of Melody Rd	point1	1	716	45	34	45	24	45	0	0	0	0
	point2	2	716	45	34	45	24	45	0	0	0	0
	point3	3	716	45	34	45	24	45	0	0	0	0
	point4	4	716	45	34	45	24	45	0	0	0	0
	point5	5	716	45	34	45	24	45	0	0	0	0
	point6	6	716	45	34	45	24	45	0	0	0	0
	point7	7	716	45	34	45	24	45	0	0	0	0
	point8	8	716	45	34	45	24	45	0	0	0	0
	point9	9	716	45	34	45	24	45	0	0	0	0
	point10	10	716	45	34	45	24	45	0	0	0	0
	point11	11	716	45	34	45	24	45	0	0	0	0
	point12	12	716	45	34	45	24	45	0	0	0	0
	point13	13										
SR-94 NB North of Melody Rd	point26	26	716	45	34	45	24	45	0	0	0	0
	point25	25	716	45	34	45	24	45	0	0	0	0
	point24	24	716	45	34	45	24	45	0	0	0	0
	point23	23	716	45	34	45	24	45	0	0	0	0
	point22	22	716	45	34	45	24	45	0	0	0	0
	point21	21	716	45	34	45	24	45	0	0	0	0
	point20	20	716	45	34	45	24	45	0	0	0	0
	point19	19	716	45	34	45	24	45	0	0	0	0
	point18	18	716	45	34	45	24	45	0	0	0	0
	point17	17	716	45	34	45	24	45	0	0	0	0

	point16	16	716	45	34	45	24	45	0	0	0	0
	point15	15	716	45	34	45	24	45	0	0	0	0
	point14	14										
SR-94 SB South of Melody Rd	point27	27	742	45	35	45	25	45	0	0	0	0
	point28	28	742	45	35	45	25	45	0	0	0	0
	point29	29	742	45	35	45	25	45	0	0	0	0
	point30	30	742	45	35	45	25	45	0	0	0	0
	point31	31	742	45	35	45	25	45	0	0	0	0
	point32	32	742	45	35	45	25	45	0	0	0	0
	point33	33	742	45	35	45	25	45	0	0	0	0
	point34	34	742	45	35	45	25	45	0	0	0	0
	point35	35	742	45	35	45	25	45	0	0	0	0
	point36	36	742	45	35	45	25	45	0	0	0	0
	point37	37	742	45	35	45	25	45	0	0	0	0
	point38	38	742	45	35	45	25	45	0	0	0	0
	point39	39	742	45	35	45	25	45	0	0	0	0
	point40	40	742	45	35	45	25	45	0	0	0	0
	point41	41	742	45	35	45	25	45	0	0	0	0
	point42	42	742	45	35	45	25	45	0	0	0	0
	point43	43	742	45	35	45	25	45	0	0	0	0
	point44	44	742	45	35	45	25	45	0	0	0	0
	point45	45	742	45	35	45	25	45	0	0	0	0
	point46	46	742	45	35	45	25	45	0	0	0	0
	point47	47	742	45	35	45	25	45	0	0	0	0
	point48	48	742	45	35	45	25	45	0	0	0	0
	point49	49	742	45	35	45	25	45	0	0	0	0
	point50	50	742	45	35	45	25	45	0	0	0	0
	point51	51	742	45	35	45	25	45	0	0	0	0
	point52	52										
SR-94 NB South of Melody Rd	point102	102	629	45	30	45	21	45	0	0	0	0
	point101	101	629	45	30	45	21	45	0	0	0	0
	point100	100	629	45	30	45	21	45	0	0	0	0
	point99	99	629	45	30	45	21	45	0	0	0	0
	point98	98	629	45	30	45	21	45	0	0	0	0
	point97	97	629	45	30	45	21	45	0	0	0	0
	point96	96	629	45	30	45	21	45	0	0	0	0

	point95	95	629	45	30	45	21	45	0	0	0	0
	point94	94	629	45	30	45	21	45	0	0	0	0
	point93	93	629	45	30	45	21	45	0	0	0	0
	point92	92	629	45	30	45	21	45	0	0	0	0
	point91	91	629	45	30	45	21	45	0	0	0	0
	point90	90										
Melody Rd WB West of SR-94	point103	103	111	30	5	30	4	30	0	0	0	0
	point104	104	111	30	5	30	4	30	0	0	0	0
	point105	105	111	30	5	30	4	30	0	0	0	0
	point106	106	111	30	5	30	4	30	0	0	0	0
	point107	107	111	30	5	30	4	30	0	0	0	0
	point108	108	111	30	5	30	4	30	0	0	0	0
	point109	109	111	30	5	30	4	30	0	0	0	0
	point110	110	111	30	5	30	4	30	0	0	0	0
	point111	111	111	30	5	30	4	30	0	0	0	0
	point112	112	111	30	5	30	4	30	0	0	0	0
	point113	113	111	30	5	30	4	30	0	0	0	0
	point114	114	111	30	5	30	4	30	0	0	0	0
	point115	115	111	30	5	30	4	30	0	0	0	0
	point116	116	111	30	5	30	4	30	0	0	0	0
	point117	117	111	30	5	30	4	30	0	0	0	0
	point118	118	111	30	5	30	4	30	0	0	0	0
	point119	119	111	30	5	30	4	30	0	0	0	0
	point120	120	111	30	5	30	4	30	0	0	0	0
	point121	121										
Melody Rd EB West of SR-94	point140	140	111	30	5	30	4	30	0	0	0	0
	point139	139	111	30	5	30	4	30	0	0	0	0
	point138	138	111	30	5	30	4	30	0	0	0	0
	point137	137	111	30	5	30	4	30	0	0	0	0
	point136	136	111	30	5	30	4	30	0	0	0	0
	point135	135	111	30	5	30	4	30	0	0	0	0
	point134	134	111	30	5	30	4	30	0	0	0	0
	point133	133	111	30	5	30	4	30	0	0	0	0
	point132	132	111	30	5	30	4	30	0	0	0	0
	point131	131	111	30	5	30	4	30	0	0	0	0
	point130	130	111	30	5	30	4	30	0	0	0	0

	point129	129	111	30	5	30	4	30	0	0	0	0
	point128	128	111	30	5	30	4	30	0	0	0	0
	point127	127	111	30	5	30	4	30	0	0	0	0
	point126	126	111	30	5	30	4	30	0	0	0	0
	point125	125	111	30	5	30	4	30	0	0	0	0
	point124	124	111	30	5	30	4	30	0	0	0	0
	point123	123	111	30	5	30	4	30	0	0	0	0
	point122	122										
Melody Rd WB East of SR-94	point141	141	24	25	1	25	1	25	0	0	0	0
	point142	142	24	25	1	25	1	25	0	0	0	0
	point143	143	24	25	1	25	1	25	0	0	0	0
	point144	144	24	25	1	25	1	25	0	0	0	0
	point145	145	24	25	1	25	1	25	0	0	0	0
	point146	146	24	25	1	25	1	25	0	0	0	0
	point147	147	24	25	1	25	1	25	0	0	0	0
	point148	148	24	25	1	25	1	25	0	0	0	0
	point149	149	24	25	1	25	1	25	0	0	0	0
	point150	150	24	25	1	25	1	25	0	0	0	0
	point151	151	24	25	1	25	1	25	0	0	0	0
	point152	152	24	25	1	25	1	25	0	0	0	0
	point153	153	24	25	1	25	1	25	0	0	0	0
	point154	154	24	25	1	25	1	25	0	0	0	0
	point155	155	24	25	1	25	1	25	0	0	0	0
	point156	156	24	25	1	25	1	25	0	0	0	0
	point157	157										
Melody Rd EB East of SR-94	point174	174	24	25	1	25	1	25	0	0	0	0
	point173	173	24	25	1	25	1	25	0	0	0	0
	point172	172	24	25	1	25	1	25	0	0	0	0
	point171	171	24	25	1	25	1	25	0	0	0	0
	point170	170	24	25	1	25	1	25	0	0	0	0
	point169	169	24	25	1	25	1	25	0	0	0	0
	point168	168	24	25	1	25	1	25	0	0	0	0
	point167	167	24	25	1	25	1	25	0	0	0	0
	point166	166	24	25	1	25	1	25	0	0	0	0
	point165	165	24	25	1	25	1	25	0	0	0	0
	point164	164	24	25	1	25	1	25	0	0	0	0

	point163	163	24	25	1	25	1	25	0	0	0	0
	point162	162	24	25	1	25	1	25	0	0	0	0
	point161	161	24	25	1	25	1	25	0	0	0	0
	point160	160	24	25	1	25	1	25	0	0	0	0
	point159	159	24	25	1	25	1	25	0	0	0	0
	point158	158										
Peacful Valley WB East of SR-94	point190	190	0	0	0	0	0	0	0	0	0	0
	point189	189	0	0	0	0	0	0	0	0	0	0
	point188	188	0	0	0	0	0	0	0	0	0	0
	point187	187	0	0	0	0	0	0	0	0	0	0
	point186	186	0	0	0	0	0	0	0	0	0	0
	point185	185	0	0	0	0	0	0	0	0	0	0
	point184	184	0	0	0	0	0	0	0	0	0	0
	point183	183	0	0	0	0	0	0	0	0	0	0
	point182	182	0	0	0	0	0	0	0	0	0	0
	point181	181	0	0	0	0	0	0	0	0	0	0
	point180	180	0	0	0	0	0	0	0	0	0	0
	point179	179	0	0	0	0	0	0	0	0	0	0
	point178	178	0	0	0	0	0	0	0	0	0	0
	point177	177	0	0	0	0	0	0	0	0	0	0
	point176	176	0	0	0	0	0	0	0	0	0	0
	point175	175										
Peacful Valley EB East of SR-94	point191	191	0	0	0	0	0	0	0	0	0	0
	point192	192	0	0	0	0	0	0	0	0	0	0
	point193	193	0	0	0	0	0	0	0	0	0	0
	point194	194	0	0	0	0	0	0	0	0	0	0
	point195	195	0	0	0	0	0	0	0	0	0	0
	point196	196	0	0	0	0	0	0	0	0	0	0
	point197	197	0	0	0	0	0	0	0	0	0	0
	point198	198	0	0	0	0	0	0	0	0	0	0
	point199	199	0	0	0	0	0	0	0	0	0	0
	point200	200	0	0	0	0	0	0	0	0	0	0
	point201	201	0	0	0	0	0	0	0	0	0	0
	point202	202	0	0	0	0	0	0	0	0	0	0
	point203	203	0	0	0	0	0	0	0	0	0	0
	point204	204	0	0	0	0	0	0	0	0	0	0

	point205	205	0	0	0	0	0	0	0	0	0	0
	point206	206										
SR-94 SB South of Melody Rd-2	point207	207	636	45	30	45	21	45	0	0	0	0
	point53	53	636	45	30	45	21	45	0	0	0	0
	point54	54	636	45	30	45	21	45	0	0	0	0
	point55	55	636	45	30	45	21	45	0	0	0	0
	point56	56	636	45	30	45	21	45	0	0	0	0
	point57	57	636	45	30	45	21	45	0	0	0	0
	point58	58	636	45	30	45	21	45	0	0	0	0
	point59	59	636	45	30	45	21	45	0	0	0	0
	point60	60	636	45	30	45	21	45	0	0	0	0
	point61	61	636	45	30	45	21	45	0	0	0	0
	point62	62	636	45	30	45	21	45	0	0	0	0
	point63	63	636	45	30	45	21	45	0	0	0	0
	point64	64										
SR-94 NB South of Melody Rd-2	point208	208	742	45	35	45	25	45	0	0	0	0
	point89	89	742	45	35	45	25	45	0	0	0	0
	point88	88	742	45	35	45	25	45	0	0	0	0
	point87	87	742	45	35	45	25	45	0	0	0	0
	point86	86	742	45	35	45	25	45	0	0	0	0
	point85	85	742	45	35	45	25	45	0	0	0	0
	point84	84	742	45	35	45	25	45	0	0	0	0
	point83	83	742	45	35	45	25	45	0	0	0	0
	point82	82	742	45	35	45	25	45	0	0	0	0
	point81	81	742	45	35	45	25	45	0	0	0	0
	point80	80	742	45	35	45	25	45	0	0	0	0
	point79	79	742	45	35	45	25	45	0	0	0	0
	point78	78	742	45	35	45	25	45	0	0	0	0
	point77	77	742	45	35	45	25	45	0	0	0	0
	point76	76	742	45	35	45	25	45	0	0	0	0
	point75	75	742	45	35	45	25	45	0	0	0	0
	point74	74	742	45	35	45	25	45	0	0	0	0
	point73	73	742	45	35	45	25	45	0	0	0	0
	point72	72	742	45	35	45	25	45	0	0	0	0
	point71	71	742	45	35	45	25	45	0	0	0	0
	point70	70	742	45	35	45	25	45	0	0	0	0

	point69	69	742	45	35	45	25	45	0	0	0	0
	point68	68	742	45	35	45	25	45	0	0	0	0
	point67	67	742	45	35	45	25	45	0	0	0	0
	point66	66	742	45	35	45	25	45	0	0	0	0
	point65	65										

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INPUT: RECEIVERS
PROJECT/CONTRACT: SR 94 Improvements
RUN: No Build

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria Existing LAeq1h	Impact Criteria LAeq1h	Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
R-1 - 13967 Highway 94	1	1	6,370,558.5	1,839,906.5	1,034.00	4.92	0.00	66	10.0	8.0	Y
R-2 - 13975 Highway 94	2	1	6,370,532.5	1,839,782.0	1,030.00	4.92	0.00	66	10.0	8.0	Y
R-3 - 14022 Hillside Dr	3	1	6,370,971.5	1,839,692.2	1,031.00	4.92	0.00	66	10.0	8.0	Y
R-4 - 14017 Hillside Dr	5	1	6,370,862.5	1,839,376.1	1,010.00	4.92	0.00	66	10.0	8.0	Y
R-5 - 14022 Highway 94 A	6	1	6,370,820.5	1,839,166.4	1,007.00	4.92	0.00	66	10.0	8.0	Y
R-6 - 14022 Highway 94 B	7	1	6,370,720.0	1,839,161.8	1,007.00	4.92	0.00	66	10.0	8.0	Y
R-7 - 14019 Highway 94	8	1	6,370,584.0	1,839,275.4	1,007.00	4.92	0.00	66	10.0	8.0	Y
R-8 - 14075 Short Ct	9	1	6,370,376.0	1,839,044.6	1,014.00	4.92	0.00	66	10.0	8.0	Y
R-9 - 14027 Hillsdie Dr	10	1	6,371,060.0	1,839,115.8	1,035.00	4.92	0.00	66	10.0	8.0	Y
R-10 - 14024 Highway 94	11	1	6,370,898.0	1,838,976.9	1,014.00	4.92	0.00	66	10.0	8.0	Y
R-11 - 14023 Campo Dr	12	1	6,370,414.5	1,838,893.0	1,005.00	4.92	0.00	66	10.0	8.0	Y
R-12 - 14043 Highway 94	14	1	6,370,396.0	1,838,738.2	1,001.00	4.92	0.00	66	10.0	8.0	Y
R-13 - 14051 Campo Rd	15	1	6,370,375.0	1,838,565.6	1,003.00	4.92	0.00	66	10.0	8.0	Y
R-14 - 14061 Campo Rd	16	1	6,370,436.0	1,838,446.0	985.00	4.92	0.00	66	10.0	8.0	Y
R-15 - 14018 Las Palmas Rd	17	1	6,370,843.0	1,838,530.5	1,010.00	4.92	0.00	66	10.0	8.0	Y
R-16 - 14013 Las Palmas Rd	18	1	6,370,828.5	1,838,266.2	994.00	4.92	0.00	66	10.0	8.0	Y
R-17 - 14031 Las Palmas Rd	20	1	6,371,023.0	1,838,146.8	1,005.00	4.92	0.00	66	10.0	8.0	Y
R-18 - 14066 Highway 94	21	1	6,371,003.0	1,838,029.5	1,010.00	4.92	0.00	66	10.0	8.0	Y
R-19 - 3023 Calle Mesquite	22	1	6,369,754.5	1,837,925.4	1,016.00	4.92	0.00	66	10.0	8.0	Y
R-20 - 3015 Calle Mesquite	23	1	6,369,772.5	1,837,777.9	1,018.00	4.92	0.00	66	10.0	8.0	Y
R-21 - 3007 Calle Mesquite	24	1	6,369,766.5	1,837,652.1	1,002.00	4.92	0.00	66	10.0	8.0	Y
R-22 - 14024 Peaceful Valley Ranch Rd	26	1	6,371,362.0	1,836,883.2	948.00	4.92	0.00	66	10.0	8.0	Y

R-23 - 14102 Peaceful Valley Ranch Rd	27	1	6,372,137.0	1,837,447.2	947.00	4.92	0.00	66	10.0	8.0	Y
R-24 - 44114 Campo Rd	28	1	6,372,855.0	1,836,707.5	934.00	4.92	0.00	66	10.0	8.0	Y
R-25 - Jamul Reservation	30	1	6,370,702.5	1,836,278.4	898.00	4.92	0.00	66	10.0	8.0	Y
ST-1 - APN: 597-04-126	32	1	6,370,859.0	1,838,704.5	1,009.00	4.92	0.00	66	10.0	8.0	Y
ST-2 - 14020 Melody Rd	34	1	6,370,104.0	1,837,642.0	1,001.50	4.92	0.00	66	10.0	8.0	Y
ST-3 - 14024 Peaceful Valley Ranch Rd	36	1	6,371,617.0	1,836,500.5	923.00	4.92	0.00	66	10.0	8.0	Y
LT - 14145 Highway 94	37	1	6,371,208.0	1,836,635.8	930.00	4.92	0.00	66	10.0	8.0	Y

Ldn Consulting **8 August 2014**
Ldn Consulting **TNM 2.5**

INPUT: BARRIERS
PROJECT/CONTRACT: **SR 94 Improvements**
RUN: **No Build**

Barrier Name	Type	Height Min	Height Max	If Wall $ per Unit Area	If Berm $ per Unit Vol.	Top Width	Run:Rise	Add'tnl $ per Unit Length	Points Name	No.	Coordinates (bottom) X	Y	Z	Height at Point	Segment Seg Ht Incre-ment	Perturbs #Up	#Dn	On Struct?	Important Reflec-tions?
		ft	ft	$/sq ft	$/cu yd	ft	ft:ft	$/ft			ft	ft	ft	ft	ft				
13857 Meldoy Rd	W	13.98	13.98	0.00				0.00	point1	1	6,368,830.5	1,837,302.4	1,051.00	13.98	0.00	0	0		
									point2	2	6,368,808.0	1,837,288.8	1,051.00	13.98	0.00	0	0		
									point3	3	6,368,813.5	1,837,280.2	1,051.00	13.98	0.00	0	0		
									point4	4	6,368,791.5	1,837,267.0	1,051.00	13.98	0.00	0	0		
									point5	5	6,368,809.5	1,837,237.2	1,051.00	13.98	0.00	0	0		
									point6	6	6,368,800.0	1,837,231.2	1,051.00	13.98	0.00	0	0		
									point7	7	6,368,811.0	1,837,212.9	1,051.00	13.98	0.00	0	0		
									point8	8	6,368,847.0	1,837,234.9	1,051.00	13.98	0.00	0	0		
									point9	9	6,368,826.5	1,837,268.9	1,051.00	13.98	0.00	0	0		
									point10	10	6,368,844.5	1,837,279.6	1,051.00	13.98	0.00	0	0		
									point11	11	6,368,830.5	1,837,302.4	1,051.00	13.98					
13861 Melody Rd	W	13.98	13.98	0.00				0.00	point12	12	6,368,976.5	1,837,239.9	1,047.00	13.98	0.00	0	0		
									point13	13	6,368,946.0	1,837,240.8	1,047.00	13.98	0.00	0	0		
									point14	14	6,368,945.5	1,837,225.0	1,047.00	13.98	0.00	0	0		
									point15	15	6,368,935.5	1,837,225.2	1,047.00	13.98	0.00	0	0		
									point16	16	6,368,936.0	1,837,248.1	1,047.00	13.98	0.00	0	0		
									point17	17	6,368,909.5	1,837,248.8	1,047.00	13.98	0.00	0	0		
									point18	18	6,368,908.0	1,837,195.5	1,047.00	13.98	0.00	0	0		
									point19	19	6,368,975.5	1,837,193.8	1,047.00	13.98	0.00	0	0		
									point20	20	6,368,976.5	1,837,239.9	1,047.00	13.98					
3002 Calle Allejandro	W	13.98	13.98	0.00				0.00	point21	21	6,368,764.0	1,837,603.0	1,032.00	13.98	0.00	0	0		
									point22	22	6,368,783.0	1,837,592.8	1,032.00	13.98	0.00	0	0		
									point23	23	6,368,793.0	1,837,593.0	1,032.00	13.98	0.00	0	0		
									point24	24	6,368,793.0	1,837,598.0	1,032.00	13.98	0.00	0	0		
									point25	25	6,368,796.5	1,837,597.9	1,032.00	13.98	0.00	0	0		
									point26	26	6,368,796.5	1,837,609.2	1,032.00	13.98	0.00	0	0		
									point27	27	6,368,802.0	1,837,609.0	1,032.00	13.98	0.00	0	0		
									point28	28	6,368,801.5	1,837,621.1	1,032.00	13.98	0.00	0	0		
									point29	29	6,368,828.0	1,837,622.0	1,032.00	13.98	0.00	0	0		
									point30	30	6,368,828.0	1,837,615.5	1,032.00	13.98	0.00	0	0		
									point31	31	6,368,840.0	1,837,615.9	1,032.00	13.98	0.00	0	0		
									point32	32	6,368,840.0	1,837,614.6	1,032.00	13.98	0.00	0	0		
									point33	33	6,368,850.5	1,837,614.9	1,032.00	13.98	0.00	0	0		
									point34	34	6,368,851.0	1,837,606.5	1,032.00	13.98	0.00	0	0		
									point35	35	6,368,854.0	1,837,606.6	1,032.00	13.98	0.00	0	0		

									point36	36	6,368,854.5	1,837,590.0	1,032.00	13.98	0.00	0	0		
									point37	37	6,368,856.5	1,837,589.8	1,032.00	13.98	0.00	0	0		
									point38	38	6,368,857.5	1,837,568.9	1,032.00	13.98	0.00	0	0		
									point39	39	6,368,835.0	1,837,568.0	1,032.00	13.98	0.00	0	0		
									point40	40	6,368,835.0	1,837,563.9	1,032.00	13.98	0.00	0	0		
									point41	41	6,368,795.0	1,837,562.9	1,032.00	13.98	0.00	0	0		
									point42	42	6,368,795.0	1,837,566.4	1,032.00	13.98	0.00	0	0		
									point43	43	6,368,776.0	1,837,565.8	1,032.00	13.98	0.00	0	0		
									point44	44	6,368,750.5	1,837,580.1	1,032.00	13.98	0.00	0	0		
									point45	45	6,368,764.0	1,837,603.0	1,032.00	13.98					
3003 Calle Allejandro	W	13.98	13.98	0.00				0.00	point46	46	6,368,996.5	1,837,670.1	1,020.00	13.98	0.00	0	0		
									point47	47	6,369,013.5	1,837,691.0	1,020.00	13.98	0.00	0	0		
									point48	48	6,369,040.0	1,837,669.2	1,020.00	13.98	0.00	0	0		
									point49	49	6,369,044.0	1,837,674.0	1,020.00	13.98	0.00	0	0		
									point50	50	6,369,042.5	1,837,675.4	1,020.00	13.98	0.00	0	0		
									point51	51	6,369,052.5	1,837,687.6	1,020.00	13.98	0.00	0	0		
									point52	52	6,369,054.0	1,837,686.2	1,020.00	13.98	0.00	0	0		
									point53	53	6,369,057.5	1,837,690.1	1,020.00	13.98	0.00	0	0		
									point54	54	6,369,055.5	1,837,691.6	1,020.00	13.98	0.00	0	0		
									point55	55	6,369,066.5	1,837,704.9	1,020.00	13.98	0.00	0	0		
									point56	56	6,369,091.0	1,837,684.6	1,020.00	13.98	0.00	0	0		
									point57	57	6,369,071.5	1,837,660.8	1,020.00	13.98	0.00	0	0		
									point58	58	6,369,073.5	1,837,658.9	1,020.00	13.98	0.00	0	0		
									point59	59	6,369,068.0	1,837,651.9	1,020.00	13.98	0.00	0	0		
									point60	60	6,369,070.5	1,837,649.9	1,020.00	13.98	0.00	0	0		
									point61	61	6,369,059.5	1,837,636.5	1,020.00	13.98	0.00	0	0		
									point62	62	6,369,057.5	1,837,638.0	1,020.00	13.98	0.00	0	0		
									point63	63	6,369,047.0	1,837,625.1	1,020.00	13.98	0.00	0	0		
									point64	64	6,369,026.5	1,837,641.9	1,020.00	13.98	0.00	0	0		
									point65	65	6,369,028.0	1,837,644.0	1,020.00	13.98	0.00	0	0		
									point66	66	6,368,996.5	1,837,670.1	1,020.00	13.98					
3006 Calle Mesquite	W	13.98	13.98	0.00				0.00	point67	67	6,369,469.5	1,837,703.5	1,007.00	13.98	0.00	0	0		
									point68	68	6,369,549.5	1,837,706.9	1,007.00	13.98	0.00	0	0		
									point69	69	6,369,550.0	1,837,687.1	1,007.00	13.98	0.00	0	0		
									point70	70	6,369,538.5	1,837,686.6	1,007.00	13.98	0.00	0	0		
									point71	71	6,369,538.5	1,837,683.0	1,007.00	13.98	0.00	0	0		
									point72	72	6,369,533.0	1,837,682.8	1,007.00	13.98	0.00	0	0		
									point73	73	6,369,533.0	1,837,670.2	1,007.00	13.98	0.00	0	0		
									point74	74	6,369,539.5	1,837,665.5	1,007.00	13.98	0.00	0	0		
									point75	75	6,369,561.5	1,837,665.8	1,007.00	13.98	0.00	0	0		
									point76	76	6,369,562.5	1,837,640.2	1,007.00	13.98	0.00	0	0		
									point77	77	6,369,479.0	1,837,638.8	1,007.00	13.98	0.00	0	0		
									point78	78	6,369,480.5	1,837,674.9	1,007.00	13.98	0.00	0	0		
									point79	79	6,369,463.5	1,837,674.1	1,007.00	13.98	0.00	0	0		
									point80	80	6,369,463.0	1,837,691.5	1,007.00	13.98	0.00	0	0		
									point81	81	6,369,470.0	1,837,691.8	1,007.00	13.98	0.00	0	0		
									point82	82	6,369,469.5	1,837,701.4	1,007.00	13.98					
3010 Calle Mesquite	W	13.98	13.98	0.00				0.00	point83	83	6,369,450.0	1,837,856.6	1,025.00	13.98	0.00	0	0		
									point84	84	6,369,489.5	1,837,853.1	1,025.00	13.98	0.00	0	0		

									point85	85	6,369,488.0	1,837,837.2	1,025.00	13.98	0.00	0	0		
									point86	86	6,369,495.0	1,837,836.6	1,025.00	13.98	0.00	0	0		
									point87	87	6,369,494.0	1,837,828.0	1,025.00	13.98	0.00	0	0		
									point88	88	6,369,491.5	1,837,828.2	1,025.00	13.98	0.00	0	0		
									point89	89	6,369,490.5	1,837,815.1	1,025.00	13.98	0.00	0	0		
									point90	90	6,369,489.0	1,837,815.2	1,025.00	13.98	0.00	0	0		
									point91	91	6,369,485.0	1,837,769.9	1,025.00	13.98	0.00	0	0		
									point92	92	6,369,458.0	1,837,772.2	1,025.00	13.98	0.00	0	0		
									point93	93	6,369,460.5	1,837,799.5	1,025.00	13.98	0.00	0	0		
									point94	94	6,369,445.0	1,837,800.9	1,025.00	13.98	0.00	0	0		
									point95	95	6,369,450.0	1,837,856.6	1,025.00	13.98					
3015 Calle Mesquite	W	13.98	13.98	0.00				0.00	point96	96	6,369,749.0	1,837,752.2	1,018.00	13.98	0.00	0	0		
									point97	97	6,369,746.0	1,837,795.8	1,018.00	13.98	0.00	0	0		
									point98	98	6,369,756.5	1,837,796.5	1,018.00	13.98	0.00	0	0		
									point99	99	6,369,754.5	1,837,822.5	1,018.00	13.98	0.00	0	0		
									point100	100	6,369,757.5	1,837,822.8	1,018.00	13.98	0.00	0	0		
									point101	101	6,369,762.5	1,837,828.5	1,018.00	13.98	0.00	0	0		
									point102	102	6,369,762.0	1,837,835.9	1,018.00	13.98	0.00	0	0		
									point103	103	6,369,757.0	1,837,840.2	1,018.00	13.98	0.00	0	0		
									point104	104	6,369,753.0	1,837,839.9	1,018.00	13.98	0.00	0	0		
									point105	105	6,369,752.5	1,837,843.1	1,018.00	13.98	0.00	0	0		
									point106	106	6,369,733.0	1,837,841.5	1,018.00	13.98	0.00	0	0		
									point107	107	6,369,731.5	1,837,855.0	1,018.00	13.98	0.00	0	0		
									point108	108	6,369,735.0	1,837,855.2	1,018.00	13.98	0.00	0	0		
									point109	109	6,369,734.5	1,837,864.1	1,018.00	13.98	0.00	0	0		
									point110	110	6,369,707.0	1,837,861.9	1,018.00	13.98	0.00	0	0		
									point111	111	6,369,709.5	1,837,840.1	1,018.00	13.98	0.00	0	0		
									point112	112	6,369,702.5	1,837,839.6	1,018.00	13.98	0.00	0	0		
									point113	113	6,369,703.0	1,837,832.6	1,018.00	13.98	0.00	0	0		
									point114	114	6,369,685.5	1,837,831.2	1,018.00	13.98	0.00	0	0		
									point115	115	6,369,686.0	1,837,825.4	1,018.00	13.98	0.00	0	0		
									point116	116	6,369,682.0	1,837,825.0	1,018.00	13.98	0.00	0	0		
									point117	117	6,369,683.5	1,837,804.9	1,018.00	13.98	0.00	0	0		
									point118	118	6,369,687.5	1,837,805.2	1,018.00	13.98	0.00	0	0		
									point119	119	6,369,688.0	1,837,799.1	1,018.00	13.98	0.00	0	0		
									point120	120	6,369,705.0	1,837,800.5	1,018.00	13.98	0.00	0	0		
									point121	121	6,369,705.5	1,837,793.1	1,018.00	13.98	0.00	0	0		
									point122	122	6,369,710.5	1,837,793.5	1,018.00	13.98	0.00	0	0		
									point123	123	6,369,713.5	1,837,775.4	1,018.00	13.98	0.00	0	0		
									point124	124	6,369,718.5	1,837,775.1	1,018.00	13.98	0.00	0	0		
									point125	125	6,369,721.0	1,837,750.0	1,018.00	13.98	0.00	0	0		
									point126	126	6,369,749.0	1,837,752.2	1,018.00	13.98					
3007 Calle Mesquite	W	13.98	13.98	0.00				0.00	point127	127	6,369,684.0	1,837,623.5	1,003.00	13.98	0.00	0	0		
									point128	128	6,369,680.5	1,837,660.8	1,003.00	13.98	0.00	0	0		
									point129	129	6,369,713.0	1,837,663.0	1,003.00	13.98	0.00	0	0		
									point130	130	6,369,709.0	1,837,707.1	1,003.00	13.98	0.00	0	0		
									point131	131	6,369,751.0	1,837,710.4	1,003.00	13.98	0.00	0	0		
									point132	132	6,369,759.0	1,837,631.1	1,003.00	13.98	0.00	0	0		
									point133	133	6,369,684.0	1,837,623.5	1,003.00	13.98					

14061 Campo Rd	W	13.98	13.98	0.00				0.00	point134	134	6,370,485.5	1,838,490.9	985.00	13.98	0.00	0	0		
									point135	135	6,370,478.5	1,838,490.9	985.00	13.98	0.00	0	0		
									point136	136	6,370,478.5	1,838,489.9	985.00	13.98	0.00	0	0		
									point137	137	6,370,447.5	1,838,489.8	985.00	13.98	0.00	0	0		
									point138	138	6,370,447.5	1,838,490.6	985.00	13.98	0.00	0	0		
									point139	139	6,370,441.0	1,838,490.6	985.00	13.98	0.00	0	0		
									point140	140	6,370,441.5	1,838,454.2	985.00	13.98	0.00	0	0		
									point141	141	6,370,446.5	1,838,454.2	985.00	13.98	0.00	0	0		
									point142	142	6,370,446.5	1,838,418.9	985.00	13.98	0.00	0	0		
									point143	143	6,370,417.5	1,838,418.6	985.00	13.98	0.00	0	0		
									point144	144	6,370,418.0	1,838,389.8	985.00	13.98	0.00	0	0		
									point145	145	6,370,481.0	1,838,390.2	985.00	13.98	0.00	0	0		
									point146	146	6,370,480.5	1,838,454.8	985.00	13.98	0.00	0	0		
									point147	147	6,370,486.0	1,838,454.8	985.00	13.98	0.00	0	0		
									point148	148	6,370,485.5	1,838,490.9	985.00	13.98					
14043 Highway 94	W	13.98	13.98	0.00				0.00	point149	149	6,370,459.0	1,838,795.4	1,000.00	13.98	0.00	0	0		
									point150	150	6,370,421.5	1,838,795.2	1,000.00	13.98	0.00	0	0		
									point151	151	6,370,421.5	1,838,788.5	1,000.00	13.98	0.00	0	0		
									point152	152	6,370,411.0	1,838,788.5	1,000.00	13.98	0.00	0	0		
									point153	153	6,370,411.5	1,838,754.5	1,000.00	13.98	0.00	0	0		
									point154	154	6,370,421.0	1,838,754.5	1,000.00	13.98	0.00	0	0		
									point155	155	6,370,421.0	1,838,714.2	1,000.00	13.98	0.00	0	0		
									point156	156	6,370,459.5	1,838,714.4	1,000.00	13.98	0.00	0	0		
									point157	157	6,370,459.0	1,838,795.4	1,000.00	13.98					
14023 Campo Rd	W	13.98	13.98	0.00				0.00	point158	158	6,370,480.5	1,838,895.0	1,002.00	13.98	0.00	0	0		
									point159	159	6,370,478.5	1,838,947.8	1,002.00	13.98	0.00	0	0		
									point160	160	6,370,462.0	1,838,947.1	1,002.00	13.98	0.00	0	0		
									point161	161	6,370,461.0	1,838,977.1	1,002.00	13.98	0.00	0	0		
									point162	162	6,370,431.5	1,838,976.2	1,002.00	13.98	0.00	0	0		
									point163	163	6,370,432.5	1,838,943.9	1,002.00	13.98	0.00	0	0		
									point164	164	6,370,421.0	1,838,943.5	1,002.00	13.98	0.00	0	0		
									point165	165	6,370,422.5	1,838,893.1	1,002.00	13.98	0.00	0	0		
									point166	166	6,370,480.5	1,838,895.0	1,002.00	13.98					
14075 Short Ct	W	13.98	13.98	0.00				0.00	point167	167	6,370,437.0	1,839,078.0	1,006.00	13.98	0.00	0	0		
									point168	168	6,370,403.0	1,839,078.5	1,006.00	13.98	0.00	0	0		
									point169	169	6,370,403.0	1,839,112.4	1,006.00	13.98	0.00	0	0		
									point170	170	6,370,360.5	1,839,113.5	1,006.00	13.98	0.00	0	0		
									point171	171	6,370,359.5	1,839,054.0	1,006.00	13.98	0.00	0	0		
									point172	172	6,370,401.0	1,839,053.2	1,006.00	13.98	0.00	0	0		
									point173	173	6,370,401.0	1,839,050.9	1,006.00	13.98	0.00	0	0		
									point174	174	6,370,436.5	1,839,050.2	1,006.00	13.98	0.00	0	0		
									point175	175	6,370,437.0	1,839,078.0	1,006.00	13.98					
14022 Highway 94 A	W	13.98	13.98	0.00				0.00	point176	176	6,370,749.5	1,839,200.6	1,008.00	13.98	0.00	0	0		
									point177	177	6,370,703.5	1,839,198.1	1,008.00	13.98	0.00	0	0		
									point178	178	6,370,704.5	1,839,185.4	1,008.00	13.98	0.00	0	0		
									point179	179	6,370,702.0	1,839,185.1	1,008.00	13.98	0.00	0	0		
									point180	180	6,370,703.0	1,839,172.1	1,008.00	13.98	0.00	0	0		
									point181	181	6,370,719.5	1,839,173.1	1,008.00	13.98	0.00	0	0		
									point182	182	6,370,719.5	1,839,168.0	1,008.00	13.98	0.00	0	0		

									point183	183	6,370,727.5	1,839,168.5	1,008.00	13.98	0.00	0	0		
									point184	184	6,370,727.5	1,839,173.4	1,008.00	13.98	0.00	0	0		
									point185	185	6,370,750.5	1,839,174.8	1,008.00	13.98	0.00	0	0		
									point186	186	6,370,749.5	1,839,200.6	1,008.00	13.98					
14022 Highway 94 B	W	13.98	13.98	0.00				0.00	point187	187	6,370,792.0	1,839,193.2	1,008.00	13.98	0.00	0	0		
									point188	188	6,370,831.5	1,839,193.4	1,008.00	13.98	0.00	0	0		
									point189	189	6,370,832.0	1,839,173.8	1,008.00	13.98	0.00	0	0		
									point190	190	6,370,792.0	1,839,173.6	1,008.00	13.98	0.00	0	0		
									point191	191	6,370,792.0	1,839,193.2	1,008.00	13.98					
14024 Highway 94	W	13.98	13.98	0.00				0.00	point192	192	6,370,906.5	1,838,959.0	1,014.00	13.98	0.00	0	0		
									point193	193	6,370,904.5	1,838,999.6	1,014.00	13.98	0.00	0	0		
									point194	194	6,370,923.0	1,839,000.6	1,014.00	13.98	0.00	0	0		
									point195	195	6,370,923.0	1,838,994.9	1,014.00	13.98	0.00	0	0		
									point196	196	6,370,926.0	1,838,995.1	1,014.00	13.98	0.00	0	0		
									point197	197	6,370,925.0	1,839,012.5	1,014.00	13.98	0.00	0	0		
									point198	198	6,370,951.0	1,839,013.9	1,014.00	13.98	0.00	0	0		
									point199	199	6,370,951.5	1,839,001.8	1,014.00	13.98	0.00	0	0		
									point200	200	6,370,957.5	1,839,002.0	1,014.00	13.98	0.00	0	0		
									point201	201	6,370,959.5	1,838,961.9	1,014.00	13.98	0.00	0	0		
									point202	202	6,370,906.5	1,838,959.0	1,014.00	13.98					
14018 Las Palmas Rd	W	13.98	13.98	0.00				0.00	point203	203	6,370,828.0	1,838,415.0	1,011.00	13.98	0.00	0	0		
									point204	204	6,370,827.5	1,838,430.5	1,011.00	13.98	0.00	0	0		
									point205	205	6,370,839.0	1,838,430.6	1,011.00	13.98	0.00	0	0		
									point206	206	6,370,839.0	1,838,439.1	1,011.00	13.98	0.00	0	0		
									point207	207	6,370,823.5	1,838,439.0	1,011.00	13.98	0.00	0	0		
									point208	208	6,370,823.5	1,838,430.6	1,011.00	13.98	0.00	0	0		
									point209	209	6,370,806.0	1,838,430.5	1,011.00	13.98	0.00	0	0		
									point210	210	6,370,805.5	1,838,461.2	1,011.00	13.98	0.00	0	0		
									point211	211	6,370,813.0	1,838,461.4	1,011.00	13.98	0.00	0	0		
									point212	212	6,370,813.0	1,838,475.9	1,011.00	13.98	0.00	0	0		
									point213	213	6,370,828.0	1,838,476.0	1,011.00	13.98	0.00	0	0		
									point214	214	6,370,828.0	1,838,478.8	1,011.00	13.98	0.00	0	0		
									point215	215	6,370,840.0	1,838,478.9	1,011.00	13.98	0.00	0	0		
									point216	216	6,370,840.0	1,838,474.4	1,011.00	13.98	0.00	0	0		
									point217	217	6,370,856.0	1,838,474.5	1,011.00	13.98	0.00	0	0		
									point218	218	6,370,856.0	1,838,450.5	1,011.00	13.98	0.00	0	0		
									point219	219	6,370,871.0	1,838,450.6	1,011.00	13.98	0.00	0	0		
									point220	220	6,370,871.5	1,838,422.2	1,011.00	13.98	0.00	0	0		
									point221	221	6,370,858.0	1,838,422.1	1,011.00	13.98	0.00	0	0		
									point222	222	6,370,858.0	1,838,418.5	1,011.00	13.98	0.00	0	0		
									point223	223	6,370,842.5	1,838,418.4	1,011.00	13.98	0.00	0	0		
									point224	224	6,370,842.5	1,838,415.1	1,011.00	13.98	0.00	0	0		
									point225	225	6,370,828.0	1,838,415.0	1,011.00	13.98					
14013 Las Palmas Rd	W	13.98	13.98	0.00				0.00	point226	226	6,370,872.5	1,838,285.2	996.00	13.98	0.00	0	0		
									point227	227	6,370,843.0	1,838,285.4	996.00	13.98	0.00	0	0		
									point228	228	6,370,842.5	1,838,261.8	996.00	13.98	0.00	0	0		
									point229	229	6,370,838.5	1,838,261.8	996.00	13.98	0.00	0	0		
									point230	230	6,370,838.5	1,838,241.5	996.00	13.98	0.00	0	0		
									point231	231	6,370,810.5	1,838,241.8	996.00	13.98	0.00	0	0		

									point232	232	6,370,810.5	1,838,200.2	996.00	13.98	0.00	0	0		
									point233	233	6,370,834.0	1,838,200.1	996.00	13.98	0.00	0	0		
									point234	234	6,370,834.0	1,838,177.1	996.00	13.98	0.00	0	0		
									point235	235	6,370,872.0	1,838,177.0	996.00	13.98	0.00	0	0		
									point236	236	6,370,872.0	1,838,203.6	996.00	13.98	0.00	0	0		
									point237	237	6,370,870.0	1,838,203.6	996.00	13.98	0.00	0	0		
									point238	238	6,370,870.0	1,838,237.5	996.00	13.98	0.00	0	0		
									point239	239	6,370,872.0	1,838,237.5	996.00	13.98	0.00	0	0		
									point240	240	6,370,872.5	1,838,285.2	996.00	13.98					
Fire House	W	13.98	13.98	0.00				0.00	point241	241	6,371,417.0	1,836,939.6	948.00	13.98	0.00	0	0		
									point242	242	6,371,421.0	1,836,894.8	948.00	13.98	0.00	0	0		
									point243	243	6,371,419.5	1,836,894.6	948.00	13.98	0.00	0	0		
									point244	244	6,371,420.0	1,836,885.2	948.00	13.98	0.00	0	0		
									point245	245	6,371,373.0	1,836,880.4	948.00	13.98	0.00	0	0		
									point246	246	6,371,372.5	1,836,891.0	948.00	13.98	0.00	0	0		
									point247	247	6,371,313.5	1,836,886.9	948.00	13.98	0.00	0	0		
									point248	248	6,371,312.0	1,836,901.5	948.00	13.98	0.00	0	0		
									point249	249	6,371,297.0	1,836,900.2	948.00	13.98	0.00	0	0		
									point250	250	6,371,295.0	1,836,930.1	948.00	13.98	0.00	0	0		
									point251	251	6,371,321.5	1,836,932.2	948.00	13.98	0.00	0	0		
									point252	252	6,371,321.0	1,836,940.9	948.00	13.98	0.00	0	0		
									point253	253	6,371,339.5	1,836,942.4	948.00	13.98	0.00	0	0		
									point254	254	6,371,340.5	1,836,933.6	948.00	13.98	0.00	0	0		
									point255	255	6,371,364.0	1,836,935.6	948.00	13.98	0.00	0	0		
									point256	256	6,371,364.0	1,836,939.8	948.00	13.98	0.00	0	0		
									point257	257	6,371,409.0	1,836,943.5	948.00	13.98	0.00	0	0		
									point258	258	6,371,409.5	1,836,939.0	948.00	13.98	0.00	0	0		
									point259	259	6,371,417.0	1,836,939.6	948.00	13.98					
Fire House Garage	W	13.98	13.98	0.00				0.00	point260	260	6,371,533.0	1,837,042.2	948.00	13.98	0.00	0	0		
									point261	261	6,371,542.0	1,837,034.0	948.00	13.98	0.00	0	0		
									point262	262	6,371,543.5	1,837,036.0	948.00	13.98	0.00	0	0		
									point263	263	6,371,565.5	1,837,016.0	948.00	13.98	0.00	0	0		
									point264	264	6,371,563.5	1,837,013.9	948.00	13.98	0.00	0	0		
									point265	265	6,371,570.0	1,837,007.5	948.00	13.98	0.00	0	0		
									point266	266	6,371,554.5	1,836,990.6	948.00	13.98	0.00	0	0		
									point267	267	6,371,547.5	1,836,997.1	948.00	13.98	0.00	0	0		
									point268	268	6,371,539.0	1,836,988.2	948.00	13.98	0.00	0	0		
									point269	269	6,371,546.5	1,836,981.4	948.00	13.98	0.00	0	0		
									point270	270	6,371,536.5	1,836,970.6	948.00	13.98	0.00	0	0		
									point271	271	6,371,541.5	1,836,966.2	948.00	13.98	0.00	0	0		
									point272	272	6,371,490.5	1,836,911.0	948.00	13.98	0.00	0	0		
									point273	273	6,371,488.5	1,836,913.0	948.00	13.98	0.00	0	0		
									point274	274	6,371,478.5	1,836,902.5	948.00	13.98	0.00	0	0		
									point275	275	6,371,435.0	1,836,944.8	948.00	13.98	0.00	0	0		
									point276	276	6,371,444.5	1,836,954.9	948.00	13.98	0.00	0	0		
									point277	277	6,371,442.0	1,836,956.8	948.00	13.98	0.00	0	0		
									point278	278	6,371,477.0	1,836,994.2	948.00	13.98	0.00	0	0		
									point279	279	6,371,475.5	1,836,995.8	948.00	13.98	0.00	0	0		
									point280	280	6,371,492.0	1,837,013.9	948.00	13.98	0.00	0	0		

									point281	281	6,371,500.0	1,837,006.2	948.00	13.98	0.00	0	0		
									point282	282	6,371,533.0	1,837,042.2	948.00	13.98					
Resservation Church	W	13.98	13.98	0.00				0.00	point283	283	6,370,693.5	1,836,303.6	901.00	13.98	0.00	2	0		
									point284	284	6,370,632.5	1,836,302.5	901.00	13.98	0.00	0	0		
									point285	285	6,370,633.5	1,836,251.4	901.00	13.98	0.00	0	0		
									point286	286	6,370,694.5	1,836,252.5	901.00	13.98	0.00	0	0		
									point287	287	6,370,693.5	1,836,303.6	901.00	13.98					

Ldn Consulting			8 August 2014	
Ldn Consulting			TNM 2.5	
INPUT: TERRAIN LINES				
PROJECT/CONTRACT:	SR 94 Improvements			
RUN:	No Build			
Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
Terrain Line1	1	6,371,795.5	1,836,325.4	908.00
	2	6,371,641.0	1,836,492.1	931.00
	3	6,371,621.5	1,836,515.8	931.00
	4	6,371,579.5	1,836,535.1	931.00
	5	6,371,520.0	1,836,597.4	932.00
	6	6,371,562.5	1,836,648.1	941.00
	7	6,371,647.0	1,836,692.1	959.00
	8	6,371,657.5	1,836,696.2	959.00
	9	6,371,747.0	1,836,717.0	980.00
	10	6,371,762.5	1,836,722.8	981.70
	11	6,371,774.0	1,836,734.4	980.00
	12	6,371,859.0	1,836,780.8	962.00
	13	6,371,868.0	1,836,785.4	962.00
	14	6,372,024.5	1,836,841.1	927.00
	15	6,372,196.0	1,836,861.1	911.00
	16	6,372,296.0	1,836,896.1	913.40
	17	6,372,359.5	1,836,880.6	912.50
	18	6,372,407.0	1,836,864.6	910.00
	19	6,372,502.5	1,836,758.0	900.50
	20	6,372,477.5	1,836,642.5	895.00
	21	6,372,501.5	1,836,393.6	885.00
	22	6,372,634.0	1,836,137.1	875.00
	23	6,372,767.0	1,835,883.8	865.00
	24	6,372,997.5	1,835,602.8	855.00

	25	6,373,086.0	1,835,529.1	852.00
	26	6,373,096.5	1,835,383.6	852.00
	27	6,373,246.5	1,835,379.0	869.00
	28	6,373,254.5	1,835,378.1	870.00
	29	6,373,389.5	1,835,292.5	907.40
	30	6,373,394.5	1,835,259.8	905.00
	31	6,373,392.0	1,835,231.8	900.00
	32	6,373,381.0	1,835,201.4	890.00
	33	6,373,382.0	1,835,166.6	884.00
	34	6,373,387.5	1,835,123.0	880.00
	35	6,373,398.0	1,835,039.5	867.00
	36	6,373,402.0	1,834,951.6	837.00
	37	6,373,439.5	1,834,878.1	825.00
	38	6,373,445.5	1,834,858.9	823.00
	39	6,373,535.5	1,834,625.2	818.00
	40	6,373,541.5	1,834,358.9	815.00
Terrain Line2	41	6,371,670.0	1,836,253.6	915.00
	42	6,371,747.0	1,836,123.9	911.00
	43	6,371,833.0	1,835,951.0	911.00
	44	6,371,910.5	1,835,837.5	911.00
	45	6,371,911.5	1,835,815.8	912.00
	46	6,371,896.5	1,835,746.8	912.00
	47	6,371,837.0	1,835,596.6	910.00
	48	6,371,847.0	1,835,538.5	908.00
	49	6,371,914.0	1,835,444.0	905.00
	50	6,371,968.0	1,835,396.2	895.00
	51	6,372,061.5	1,835,333.5	888.00
	52	6,372,130.5	1,835,260.9	873.00
	53	6,372,223.0	1,835,144.1	865.00
	54	6,372,283.5	1,835,076.6	861.00
	55	6,372,401.0	1,834,966.2	859.00
	56	6,372,482.5	1,834,880.9	861.00
	57	6,372,511.5	1,834,844.8	864.00
	58	6,372,527.0	1,834,817.2	865.00
	59	6,372,540.0	1,834,787.9	864.00
	60	6,372,550.5	1,834,752.6	864.00

	61	6,372,559.0	1,834,721.5	864.00
	62	6,372,564.5	1,834,685.0	864.00
	63	6,372,559.0	1,834,637.8	864.00
	64	6,372,533.0	1,834,563.8	864.00
Terrain Line3	65	6,370,927.5	1,837,233.0	945.00
	66	6,371,007.5	1,837,209.4	945.00
	67	6,371,155.5	1,837,211.5	970.00
	68	6,371,285.0	1,837,190.5	983.00
	69	6,371,301.0	1,837,187.9	983.20
	70	6,371,330.0	1,837,162.5	983.00
	71	6,371,360.5	1,837,119.5	980.00
	72	6,371,389.0	1,837,040.9	968.00
	73	6,371,405.0	1,837,004.5	951.00
Terrain Line4	74	6,371,094.5	1,836,938.1	937.00
	75	6,371,126.0	1,836,957.5	941.00
	76	6,371,131.0	1,836,964.9	945.00
	77	6,371,165.0	1,836,985.5	948.00
	78	6,371,233.5	1,837,005.4	950.00
	79	6,371,284.0	1,836,995.6	950.00
	80	6,371,393.5	1,836,995.9	950.00
	81	6,371,419.0	1,837,011.2	950.00
	82	6,371,440.5	1,837,072.0	950.00
	83	6,371,469.0	1,837,170.9	953.00
	84	6,371,512.5	1,837,208.6	954.00
Terrain Line5	85	6,371,541.0	1,837,185.2	951.00
	86	6,371,534.5	1,837,157.4	941.00
	87	6,371,542.0	1,837,136.4	940.00
	88	6,371,566.5	1,837,082.5	940.00
	89	6,371,573.5	1,837,061.8	949.00
	90	6,371,583.5	1,837,026.6	949.00
	91	6,371,569.0	1,836,983.5	949.00
	92	6,371,473.0	1,836,886.9	949.00
	93	6,371,303.5	1,836,869.0	949.00
	94	6,371,246.0	1,836,857.9	949.00
	95	6,371,206.0	1,836,892.2	949.00
	96	6,371,146.0	1,836,961.8	949.00

Terrain Line6	97	6,372,011.5	1,838,160.2	1,001.00
	98	6,371,873.0	1,838,054.9	1,022.00
	99	6,371,810.0	1,837,997.6	1,022.00
	100	6,371,760.0	1,837,983.6	1,022.00
	101	6,371,717.5	1,837,977.1	1,030.00
	102	6,371,679.0	1,837,985.9	1,030.50
	103	6,371,621.0	1,837,990.9	1,026.40
	104	6,371,597.5	1,838,029.9	1,028.00
	105	6,371,551.0	1,838,081.2	1,037.00
	106	6,371,537.5	1,838,103.8	1,041.00
	107	6,371,519.5	1,838,121.5	1,041.00
	108	6,371,473.5	1,838,139.9	1,042.00
	109	6,371,390.0	1,838,133.0	1,045.00
	110	6,371,343.5	1,838,103.9	1,045.00
	111	6,371,314.0	1,838,099.2	1,045.00
	112	6,371,234.5	1,838,041.2	1,040.00
	113	6,371,163.5	1,837,981.6	1,025.00
	114	6,371,079.5	1,837,895.9	1,005.00
	115	6,370,988.5	1,837,843.5	990.00
	116	6,370,732.0	1,837,676.2	960.00
Terrain Line7	117	6,371,013.0	1,836,953.9	936.40
	118	6,370,977.5	1,836,855.1	950.00
	119	6,370,946.0	1,836,781.5	952.40
	120	6,370,919.0	1,836,730.4	950.00
	121	6,370,760.0	1,836,622.0	893.00
	122	6,370,694.5	1,836,656.1	983.00
	123	6,370,648.5	1,836,722.1	896.00
	124	6,370,595.0	1,836,803.6	899.00
	125	6,370,547.0	1,836,906.8	903.00
	126	6,370,548.5	1,836,918.2	910.00
	127	6,370,553.0	1,836,963.4	911.00
	128	6,370,547.5	1,837,009.9	914.00
	129	6,370,530.0	1,837,055.5	918.00
	130	6,370,505.5	1,837,090.1	919.00
	131	6,370,389.0	1,837,187.1	920.00
	132	6,370,318.0	1,837,229.5	930.00

	133	6,370,251.5	1,837,267.1	954.00
	134	6,370,180.5	1,837,293.1	956.00
	135	6,370,152.0	1,837,310.8	959.00
	136	6,370,085.5	1,837,328.5	961.00
	137	6,370,032.5	1,837,372.6	962.00
	138	6,370,008.0	1,837,385.5	964.00
	139	6,369,984.0	1,837,393.8	965.00
	140	6,369,957.5	1,837,390.9	966.00
	141	6,369,935.5	1,837,392.1	967.00
	142	6,369,919.5	1,837,392.1	968.00
	143	6,369,908.0	1,837,398.0	970.00
	144	6,369,883.5	1,837,407.6	971.00
	145	6,369,847.5	1,837,433.1	972.00
	146	6,369,828.5	1,837,447.2	973.00
	147	6,369,777.5	1,837,483.2	974.00
	148	6,369,764.0	1,837,486.8	975.00
	149	6,369,718.0	1,837,491.1	976.00
	150	6,369,692.5	1,837,500.5	988.00
	151	6,369,669.5	1,837,512.9	991.00
	152	6,369,666.0	1,837,498.2	992.00
	153	6,369,644.0	1,837,489.8	991.00
	154	6,369,620.0	1,837,450.2	995.00
	155	6,369,605.0	1,837,366.6	1,000.00
	156	6,369,577.5	1,837,262.1	1,015.00
	157	6,369,506.5	1,836,995.0	1,080.00
	158	6,369,494.0	1,836,975.0	1,083.00
	159	6,369,471.5	1,836,955.5	1,084.90
	160	6,369,469.0	1,836,948.4	1,084.00
	161	6,369,467.0	1,836,885.1	1,075.00
	162	6,369,476.0	1,836,835.6	1,071.70
	163	6,369,467.0	1,836,821.5	1,072.00
	164	6,369,439.5	1,836,719.4	1,077.80
Terrain Line8	165	6,370,564.5	1,835,881.5	903.00
	166	6,370,563.5	1,835,904.4	903.00
	167	6,370,555.0	1,835,917.1	903.00
	168	6,370,543.5	1,835,929.0	903.00

	169	6,370,529.5	1,835,955.4	903.00
	170	6,370,518.0	1,835,970.1	903.00
	171	6,370,534.5	1,835,970.0	903.00
	172	6,370,548.5	1,835,979.9	903.00
	173	6,370,580.0	1,836,016.0	903.00
	174	6,370,611.5	1,836,083.9	903.00
	175	6,370,638.5	1,836,159.8	903.00
	176	6,370,645.5	1,836,229.9	903.00
	177	6,370,623.0	1,836,258.2	903.00
	178	6,370,612.5	1,836,305.4	903.00
	179	6,370,622.5	1,836,311.1	903.00
	180	6,370,709.5	1,836,320.6	903.00
	181	6,370,790.5	1,836,314.9	895.00
	182	6,370,917.0	1,836,302.5	888.00
	183	6,371,051.5	1,836,315.0	901.00
	184	6,371,120.5	1,836,320.1	908.00
	185	6,371,484.0	1,836,299.9	940.00
	186	6,371,720.0	1,836,293.0	905.00
Terrain Line9	187	6,370,148.5	1,837,691.9	1,000.00
	188	6,370,183.5	1,837,668.1	1,000.00
	189	6,370,190.5	1,837,629.2	1,000.00
	190	6,370,186.0	1,837,602.5	1,000.00
	191	6,370,134.5	1,837,598.2	1,000.00
	192	6,370,083.5	1,837,595.9	1,000.00
	193	6,370,071.5	1,837,614.2	1,000.00
	194	6,370,034.0	1,837,630.1	1,000.00
	195	6,370,002.5	1,837,637.0	1,000.00
	196	6,369,955.5	1,837,628.0	1,000.00
	197	6,369,930.5	1,837,642.2	1,000.00
	198	6,369,901.0	1,837,655.9	1,000.00
	199	6,369,890.0	1,837,686.4	1,000.00
	200	6,369,869.5	1,837,668.4	1,000.00
	201	6,369,880.0	1,837,603.5	1,000.00
	202	6,369,814.5	1,837,607.0	1,000.00
	203	6,369,794.5	1,837,615.8	1,000.00
	204	6,369,778.5	1,837,606.4	1,000.00

	205	6,369,730.5	1,837,600.9	1,000.00
	206	6,369,681.0	1,837,593.2	1,000.00
	207	6,369,671.0	1,837,599.8	1,000.00
	208	6,369,656.5	1,837,628.0	1,000.00
	209	6,369,642.0	1,837,643.1	1,000.00
Terrain Line10	210	6,369,889.0	1,837,757.5	1,004.00
	211	6,369,802.0	1,837,746.0	1,013.00
	212	6,369,656.5	1,837,739.0	1,014.00
	213	6,369,637.5	1,837,834.2	1,017.00
Terrain Line11	214	6,371,055.5	1,838,142.2	1,011.00
	215	6,370,876.0	1,838,136.5	995.00
	216	6,370,799.5	1,838,145.8	993.00
	217	6,370,771.0	1,838,144.9	992.00
	218	6,370,733.0	1,838,123.2	992.00
	219	6,370,721.5	1,838,126.6	992.00
	220	6,370,711.5	1,838,141.0	992.00
	221	6,370,712.0	1,838,199.2	992.00
	222	6,370,709.5	1,838,238.9	992.00
	223	6,370,712.0	1,838,280.1	992.00
	224	6,370,725.5	1,838,288.9	992.00
	225	6,370,741.5	1,838,322.8	992.00
Terrain Line12	226	6,371,187.0	1,838,938.6	1,049.00
	227	6,370,868.5	1,838,921.2	1,011.00
	228	6,370,835.0	1,838,918.2	1,008.00
	229	6,370,792.5	1,838,910.6	1,003.00
	230	6,370,765.0	1,838,904.9	999.00
	231	6,370,739.5	1,838,892.2	995.00
	232	6,370,677.0	1,838,858.9	991.00
Terrain Line13	233	6,371,051.5	1,838,642.0	1,040.00
	234	6,370,945.5	1,838,634.6	1,028.00
	235	6,370,872.0	1,838,628.6	1,016.00
	236	6,370,827.5	1,838,628.9	1,010.00
	237	6,370,802.0	1,838,517.9	1,010.00
	238	6,370,802.5	1,838,406.0	1,010.00
	239	6,370,866.5	1,838,409.1	1,010.00
	240	6,370,867.0	1,838,388.8	1,010.00

	241	6,370,871.0	1,838,370.1	1,007.00
Terrain Line14	242	6,370,051.5	1,839,161.1	1,033.00
	243	6,370,422.0	1,839,178.9	1,009.00
	244	6,370,438.5	1,839,122.1	1,006.00
	245	6,370,439.5	1,839,107.1	1,006.00
	246	6,370,439.5	1,839,032.0	1,006.00
	247	6,370,491.5	1,839,003.8	1,002.00
	248	6,370,491.0	1,838,897.0	1,001.00
	249	6,370,472.0	1,838,826.5	999.00
	250	6,370,476.0	1,838,798.6	999.00
	251	6,370,468.5	1,838,704.6	999.00
	252	6,370,436.0	1,838,698.1	999.00
	253	6,370,419.0	1,838,687.6	999.00
	254	6,370,416.0	1,838,614.1	999.00
Terrain Line15	255	6,370,896.0	1,839,011.1	1,010.00
	256	6,370,911.0	1,839,030.9	1,010.00
	257	6,370,917.0	1,839,067.1	1,010.00
	258	6,370,925.5	1,839,082.6	1,010.00
	259	6,370,925.0	1,839,102.8	1,010.00
	260	6,370,925.0	1,839,163.9	1,010.00
	261	6,370,933.5	1,839,191.9	1,010.00
	262	6,370,936.0	1,839,216.8	1,010.00
	263	6,370,966.0	1,839,269.5	1,010.00
	264	6,370,968.0	1,839,303.5	1,010.00
	265	6,370,967.5	1,839,377.1	1,010.00
	266	6,370,939.5	1,839,386.2	1,010.00
	267	6,370,919.5	1,839,375.0	1,010.00
	268	6,370,868.0	1,839,359.9	1,010.00
	269	6,370,845.0	1,839,343.0	1,010.00
	270	6,370,834.5	1,839,318.9	1,010.00
	271	6,370,811.0	1,839,306.0	1,010.00
	272	6,370,764.5	1,839,276.6	1,010.00
	273	6,370,743.5	1,839,270.4	1,010.00
	274	6,370,686.5	1,839,294.0	1,010.00
Terrain Line16	275	6,370,116.0	1,839,507.4	1,080.00
	276	6,370,229.0	1,839,185.2	1,023.00

LDN
Louden

9 August 2014
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: SR-94 Intersection Improvements
RUN: Existing Conditions
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
R-26	1	1	0.0	61.5	66	61.5	10	----	61.5	0.0	8	-8.0
R-27	4	1	0.0	70.3	72	70.3	10	----	70.3	0.0	8	-8.0
R-28	6	1	0.0	67.0	66	67.0	10	Snd Lvl	67.0	0.0	8	-8.0
R-29	7	1	0.0	65.2	66	65.2	10	----	65.2	0.0	8	-8.0
R-30	8	1	0.0	73.4	66	73.4	10	Snd Lvl	73.4	0.0	8	-8.0
R-31	9	1	0.0	72.6	66	72.6	10	Snd Lvl	72.6	0.0	8	-8.0
R-32	10	1	0.0	66.8	66	66.8	10	Snd Lvl	66.8	0.0	8	-8.0
R-33	11	1	0.0	67.3	66	67.3	10	Snd Lvl	67.3	0.0	8	-8.0
R-34	12	1	0.0	66.3	66	66.3	10	Snd Lvl	66.3	0.0	8	-8.0
R-35	13	1	0.0	55.8	66	55.8	10	----	55.8	0.0	8	-8.0
R-36	14	1	0.0	53.4	66	53.4	10	----	53.4	0.0	8	-8.0
R-37	15	1	0.0	51.8	66	51.8	10	----	51.8	0.0	8	-8.0
R-38	19	1	0.0	49.4	66	49.4	10	----	49.4	0.0	8	-8.0
R-39	22	1	0.0	59.9	66	59.9	10	----	59.9	0.0	8	-8.0
R-40	23	1	0.0	58.9	66	58.9	10	----	58.9	0.0	8	-8.0
R-41	24	1	0.0	58.5	66	58.5	10	----	58.5	0.0	8	-8.0
R-42	26	1	0.0	69.0	66	69.0	10	Snd Lvl	69.0	0.0	8	-8.0
R-43	27	1	0.0	55.0	66	55.0	10	----	55.0	0.0	8	-8.0
R-44	28	1	0.0	67.5	66	67.5	10	Snd Lvl	67.5	0.0	8	-8.0
R-45	29	1	0.0	68.1	66	68.1	10	Snd Lvl	68.1	0.0	8	-8.0
R-46	30	1	0.0	51.4	66	51.4	10	----	51.4	0.0	8	-8.0
R-47	31	1	0.0	70.4	66	70.4	10	Snd Lvl	70.4	0.0	8	-8.0
R-48	32	1	0.0	65.9	66	65.9	10	----	65.9	0.0	8	-8.0
R-49	33	1	0.0	61.2	66	61.2	10	----	61.2	0.0	8	-8.0

R-50	34	1	0.0	49.4	66	49.4	10	----	49.4	0.0	8	-8.0
R-51	35	1	0.0	56.0	66	56.0	10	----	56.0	0.0	8	-8.0
R-52	36	1	0.0	36.1	66	36.1	10	----	36.1	0.0	8	-8.0
R-53	38	1	0.0	67.9	66	67.9	10	Snd Lvl	67.9	0.0	8	-8.0
R-54	40	1	0.0	55.6	66	55.6	10	----	55.6	0.0	8	-8.0
R-55	41	1	0.0	59.3	66	59.3	10	----	59.3	0.0	8	-8.0
R-56	44	1	0.0	52.7	66	52.7	10	----	52.7	0.0	8	-8.0
R-57	45	1	0.0	47.2	66	47.2	10	----	47.2	0.0	8	-8.0
R-58	46	1	0.0	57.2	66	57.2	10	----	57.2	0.0	8	-8.0
R-59	47	1	0.0	38.5	66	38.5	10	----	38.5	0.0	8	-8.0
R-60	48	1	0.0	62.6	66	62.6	10	----	62.6	0.0	8	-8.0

Dwelling Units	**# DUs**	**Noise Reduction**		
		Min	**Avg**	**Max**
		dB	**dB**	**dB**
All Selected	35	0.0	0.0	0.0
All Impacted	11	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

LDN 9 August 2014
Louden TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: SR-94 Intersection Improvements
RUN: Existing Conditions

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway Name	Width	Points Name	No.	Coordinates (pavement) X	Y	Z	Flow Control Control Device	Speed Constraint	Percent Vehicles Affected	Segment Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
SR-94-EB Lane 1	18.0	point17	17	6,347,146.5	1,849,445.9	398.50				Average	
		point16	16	6,347,875.0	1,849,512.1	376.50				Average	
		point15	15	6,348,242.0	1,849,549.5	363.40				Average	
		point14	14	6,348,472.5	1,849,562.1	356.00				Average	
		point13	13	6,348,734.5	1,849,562.8	351.50					
SR-94-EB Lane 2	18.0	point26	26	6,347,141.0	1,849,433.9	398.50				Average	
		point25	25	6,347,772.5	1,849,492.0	376.50				Average	
		point24	24	6,348,248.0	1,849,533.9	363.40				Average	
		point23	23	6,348,411.5	1,849,544.2	356.00				Average	
		point22	22	6,348,758.5	1,849,545.2	351.50					
Jamacha Rd/SR-54-WB Lane 2	18.0	point37	37	6,349,150.5	1,849,665.1	350.00				Average	
		point36	36	6,349,043.5	1,849,637.1	350.50				Average	
		point35	35	6,348,976.5	1,849,628.2	351.00				Average	
		point34	34	6,348,717.5	1,849,624.9	351.30					
Jamacha Rd/SR-54-WB Lane 1	18.0	point48	48	6,349,153.0	1,849,650.9	350.00				Average	
		point47	47	6,349,081.5	1,849,629.1	350.50				Average	
		point46	46	6,348,978.0	1,849,612.2	351.00				Average	
		point45	45	6,348,746.5	1,849,608.1	351.30					
SR-94-EB RT Lane	12.0	point53	53	6,348,200.0	1,849,514.2	363.40				Average	
		point52	52	6,348,273.5	1,849,517.4	356.00				Average	
		point51	51	6,348,428.0	1,849,524.2	354.00				Average	
		point50	50	6,348,534.5	1,849,528.4	353.00				Average	
		point49	49	6,348,673.0	1,849,529.4	351.50					
SR-94-LTLane	12.0	point58	58	6,348,143.0	1,849,553.1	363.40				Average	
		point57	57	6,348,223.5	1,849,562.5	356.00				Average	

		point56	56	6,348,270.0	1,849,567.2	354.00				Average	
		point55	55	6,348,356.0	1,849,571.8	353.00				Average	
		point54	54	6,348,672.5	1,849,576.8	351.50					
Campo Road\SR-94 - SB	24.0	point67	67	6,348,719.5	1,849,517.6	351.50	Signal	0.00	100	Average	
		point66	66	6,348,749.5	1,849,418.4	347.00				Average	
		point65	65	6,348,800.5	1,849,291.8	345.00				Average	
		point64	64	6,349,108.0	1,848,529.8	333.00				Average	
		point63	63	6,349,138.0	1,848,456.6	332.00				Average	
		point62	62	6,349,169.5	1,848,361.2	330.00				Average	
		point61	61	6,349,192.0	1,848,258.1	329.00				Average	
		point60	60	6,349,204.5	1,848,159.5	327.00				Average	
		point59	59	6,349,207.5	1,848,099.8	326.00					
Campo Road\SR-94 - NB LT Lane	24.0	point71	71	6,348,910.5	1,849,109.2	346.00				Average	
		point70	70	6,348,845.0	1,849,262.4	348.00				Average	
		point69	69	6,348,776.0	1,849,432.5	350.00				Average	
		point68	68	6,348,755.0	1,849,515.5	351.50					
Roadway10	24.0	point82	82	6,349,247.5	1,848,103.6	327.00				Average	
		point81	81	6,349,239.0	1,848,224.1	329.00				Average	
		point80	80	6,349,229.0	1,848,293.2	331.00				Average	
		point79	79	6,349,210.0	1,848,385.2	334.00				Average	
		point78	78	6,349,175.5	1,848,483.4	336.00				Average	
		point77	77	6,349,115.5	1,848,633.1	338.00				Average	
		point76	76	6,349,071.5	1,848,735.5	342.00				Average	
		point75	75	6,348,906.5	1,849,178.0	346.00				Average	
		point74	74	6,348,826.0	1,849,372.4	348.00				Average	
		point73	73	6,348,789.0	1,849,475.0	350.00				Average	
		point72	72	6,348,776.5	1,849,519.4	351.50					
Campo Rd/SR-94 WB - E of Steele Cnyn	12.0	point103	103	6,360,410.0	1,845,407.9	590.00				Average	
		point102	102	6,360,223.5	1,845,461.4	585.00				Average	
		point101	101	6,360,114.5	1,845,486.0	579.60				Average	
		point100	100	6,360,025.0	1,845,503.0	577.50				Average	
		point99	99	6,359,932.5	1,845,516.9	578.50				Average	
		point98	98	6,359,856.0	1,845,520.8	578.00				Average	
		point97	97	6,359,739.5	1,845,520.0	577.00				Average	
		point96	96	6,359,635.5	1,845,502.0	576.00				Average	
		point95	95	6,359,567.5	1,845,485.0	574.50				Average	
		point94	94	6,359,509.0	1,845,466.5	573.00				Average	
		point93	93	6,359,017.0	1,845,279.0	564.00				Average	
		point92	92	6,358,909.0	1,845,217.9	562.00					

Campo Rd/SR-94 EB - W of Steele Cnyn	12.0	point126	126	6,357,546.0	1,844,386.6	523.40				Average	
		point125	125	6,357,809.5	1,844,433.2	530.10				Average	
		point124	124	6,357,949.5	1,844,473.5	534.50				Average	
		point123	123	6,358,061.5	1,844,520.8	538.50				Average	
		point122	122	6,358,153.0	1,844,568.2	543.00				Average	
		point121	121	6,358,245.0	1,844,626.6	548.00				Average	
		point120	120	6,358,372.5	1,844,730.4	553.20				Average	
		point119	119	6,358,818.0	1,845,117.6	558.50				Average	
		point118	118	6,358,915.0	1,845,189.5	560.00					
Steele Cnyn NB	12.0	point130	130	6,358,909.0	1,845,245.8	562.00	Signal	0.00	100	Average	
		point129	129	6,358,877.5	1,845,298.2	566.00				Average	
		point128	128	6,358,867.5	1,845,330.0	567.00				Average	
		point127	127	6,358,845.5	1,845,559.2	580.00					
Steele Cnyn SB	12.0	point135	135	6,358,826.0	1,845,556.2	580.00				Average	
		point134	134	6,358,840.5	1,845,396.2	570.50				Average	
		point133	133	6,358,845.5	1,845,332.1	567.60				Average	
		point132	132	6,358,865.5	1,845,257.5	564.30				Average	
		point131	131	6,358,870.5	1,845,221.2	562.00					
Campo Rd/SR-94 WB - @ Lyons Valley	12.0	point140	140	6,368,011.5	1,842,162.8	905.00				Average	
		point139	139	6,367,866.5	1,842,285.0	897.00				Average	
		point138	138	6,367,774.5	1,842,372.1	895.00				Average	
		point137	137	6,367,730.5	1,842,419.2	893.00				Average	
		point136	136	6,367,675.5	1,842,485.4	892.00					
Campo Rd/SR-94 EB - @ Lyons Valley	12.0	point144	144	6,367,660.5	1,842,468.5	892.00				Average	
		point143	143	6,367,777.5	1,842,341.4	895.00				Average	
		point142	142	6,367,852.0	1,842,271.5	897.00				Average	
		point141	141	6,367,997.5	1,842,148.2	905.00					
Roadway17	12.0	point147	147	6,367,751.5	1,842,214.9	895.00				Average	
		point146	146	6,367,774.0	1,842,249.8	893.00				Average	
		point145	145	6,367,809.0	1,842,279.9	891.00					
Lyons Valley Driveway SB	12.0	point148	148	6,367,792.5	1,842,295.1	895.00				Average	
		point149	149	6,367,736.0	1,842,226.5	891.00					
Lyons Valley Rd SB	12.0	point153	153	6,368,017.5	1,842,389.2	903.00				Average	
		point152	152	6,367,942.5	1,842,382.5	901.00				Average	
		point151	151	6,367,904.0	1,842,374.2	899.00				Average	
		point150	150	6,367,830.0	1,842,337.4	895.00					
Roadway20	12.0	point158	158	6,367,857.5	1,842,308.1	895.00	Stop	0.00	100	Average	
		point157	157	6,367,878.0	1,842,337.9	897.00				Average	
		point156	156	6,367,908.0	1,842,357.8	899.00				Average	

		point155	155	6,367,948.0	1,842,367.8	901.00				Average	
		point154	154	6,368,026.0	1,842,375.0	903.00					
Campo Rd/SR-94 EB - @ Maxfiled Rd	12.0	point176	176	6,369,584.5	1,841,093.6	1,016.00				Average	
		point175	175	6,369,908.5	1,841,052.8	1,026.50				Average	
		point174	174	6,369,991.0	1,841,036.6	1,030.00				Average	
		point173	173	6,370,065.5	1,841,015.6	1,035.00				Average	
		point172	172	6,370,151.5	1,840,979.8	1,037.00				Average	
		point171	171	6,370,219.5	1,840,946.1	1,041.00				Average	
		point170	170	6,370,289.5	1,840,901.0	1,044.00				Average	
		point169	169	6,370,356.0	1,840,846.4	1,045.00				Average	
		point168	168	6,370,423.0	1,840,781.9	1,046.00				Average	
		point167	167	6,370,469.5	1,840,726.5	1,047.00				Average	
		point166	166	6,370,515.5	1,840,656.5	1,047.50				Average	
		point165	165	6,370,562.0	1,840,573.1	1,048.00				Average	
		point164	164	6,370,593.0	1,840,499.4	1,047.00				Average	
		point163	163	6,370,608.5	1,840,447.2	1,045.00				Average	
		point162	162	6,370,616.5	1,840,407.8	1,043.00				Average	
		point161	161	6,370,626.0	1,840,331.4	1,040.00				Average	
		point160	160	6,370,628.5	1,840,228.0	1,037.00					
Campo Rd/SR-94 WB - @ Maxfiled Rd	12.0	point197	197	6,370,654.0	1,839,940.9	1,028.00				Average	
		point196	196	6,370,652.5	1,840,229.8	1,037.00					
Maxfiled Rd WB	12.0	point198	198	6,370,622.5	1,840,239.2	1,037.00				Average	
		point199	199	6,370,544.0	1,840,228.9	1,037.00					
Maxfiled Rd EB	12.0	point200	200	6,370,544.0	1,840,217.4	1,037.00				Average	
		point201	201	6,370,622.5	1,840,217.8	1,037.00					
Jamacha Rd/SR-54-EB Lane 2	18.0	point202	202	6,348,758.5	1,849,545.2	351.50	Signal	0.00	100	Average	
		point21	21	6,348,900.5	1,849,544.9	352.00				Average	
		point20	20	6,349,007.5	1,849,546.1	352.00				Average	
		point19	19	6,349,084.0	1,849,559.2	352.50				Average	
		point18	18	6,349,162.5	1,849,581.1	353.00					
Jamacha Rd/SR-54-EB Lane 1	18.0	point203	203	6,348,734.5	1,849,562.8	351.50	Signal	0.00	100	Average	
		point12	12	6,348,963.5	1,849,559.1	352.00				Average	
		point11	11	6,349,052.0	1,849,570.1	352.00				Average	
		point10	10	6,349,117.5	1,849,585.4	352.50				Average	
		point9	9	6,349,160.0	1,849,600.2	353.00					
Campo Rd/SR-94-WB Lane 1	18.0	point204	204	6,348,746.5	1,849,608.1	351.30	Signal	0.00	100	Average	
		point44	44	6,348,456.5	1,849,607.1	356.00				Average	
		point43	43	6,348,329.0	1,849,605.5	340.00				Average	
		point42	42	6,348,187.0	1,849,592.0	365.00				Average	

		point41	41	6,347,899.5	1,849,555.5	372.50				Average	
		point40	40	6,347,565.0	1,849,522.4	381.60				Average	
		point39	39	6,347,243.0	1,849,493.0	393.60				Average	
		point38	38	6,347,141.5	1,849,487.4	397.40					
Campo Road/SR-94-WB Lane 2	18.0	point205	205	6,348,717.5	1,849,624.9	351.30	Signal	0.00	100	Average	
		point33	33	6,348,384.5	1,849,618.6	359.00				Average	
		point32	32	6,348,284.5	1,849,612.9	362.50				Average	
		point31	31	6,348,142.0	1,849,597.2	366.50				Average	
		point30	30	6,348,000.0	1,849,579.1	370.00				Average	
		point29	29	6,347,866.0	1,849,565.5	373.00				Average	
		point28	28	6,347,324.0	1,849,513.1	390.70				Average	
		point27	27	6,347,141.5	1,849,498.9	397.40					
Campo Rd/SR-94 EB - E of Steele Cnyn	12.0	point206	206	6,358,915.0	1,845,189.5	560.00	Signal	0.00	100	Average	
		point117	117	6,358,979.0	1,845,226.2	561.00				Average	
		point116	116	6,359,149.0	1,845,299.1	564.00				Average	
		point115	115	6,359,541.0	1,845,446.8	570.00				Average	
		point114	114	6,359,637.5	1,845,473.9	573.00				Average	
		point113	113	6,359,681.5	1,845,483.2	574.50				Average	
		point112	112	6,359,756.5	1,845,492.6	576.00				Average	
		point111	111	6,359,819.0	1,845,495.0	577.00				Average	
		point110	110	6,359,882.5	1,845,494.0	578.00				Average	
		point109	109	6,359,945.0	1,845,488.4	578.50				Average	
		point108	108	6,360,019.5	1,845,478.4	577.50				Average	
		point107	107	6,360,153.5	1,845,452.2	579.60				Average	
		point106	106	6,360,261.5	1,845,430.1	585.00				Average	
		point105	105	6,360,359.5	1,845,404.8	590.00				Average	
		point104	104	6,360,408.0	1,845,389.6	590.00					
Campo Rd/SR-94 WB - W of Steele Cnyn	12.0	point207	207	6,358,909.0	1,845,217.9	562.00	Signal	0.00	100	Average	
		point91	91	6,358,809.0	1,845,144.4	558.50				Average	
		point90	90	6,358,282.5	1,844,690.5	553.20				Average	
		point89	89	6,358,223.5	1,844,645.4	548.00				Average	
		point88	88	6,358,144.0	1,844,596.8	546.00				Average	
		point87	87	6,358,055.5	1,844,546.4	543.00				Average	
		point86	86	6,357,978.0	1,844,511.0	538.50				Average	
		point85	85	6,357,908.0	1,844,486.6	534.50				Average	
		point84	84	6,357,795.0	1,844,455.8	530.10				Average	
		point83	83	6,357,546.0	1,844,412.4	523.40					
Jamacha Blvd SB	24.0	point208	208	6,345,890.0	1,849,708.0	439.00	Signal	0.00	100	Average	
		point209	209	6,345,696.0	1,849,606.0	441.00				Average	

		point210	210	6,345,652.0	1,849,583.0	441.20				Average	
		point211	211	6,345,562.5	1,849,546.0	444.20					
Jamacha Blvd NB	24.0	point214	214	6,345,569.5	1,849,506.5	444.50				Average	
		point213	213	6,345,698.0	1,849,557.8	441.20				Average	
		point212	212	6,345,938.0	1,849,684.5	439.00					
Jamacha Blvd NB - LT Lane	24.0	point215	215	6,345,709.0	1,849,581.2	439.00				Average	
		point216	216	6,345,927.5	1,849,693.6	441.00					
Skyline Driveway Egress	24.0	point222	222	6,346,244.5	1,849,878.1	456.00				Average	
		point221	221	6,346,212.5	1,849,869.4	455.00				Average	
		point220	220	6,346,163.5	1,849,860.8	445.00				Average	
		point219	219	6,346,123.5	1,849,851.6	439.00				Average	
		point218	218	6,346,090.5	1,849,836.4	435.00				Average	
		point217	217	6,345,989.5	1,849,759.6	437.30					
Skyline Driveway Ingress	24.0	point228	228	6,346,021.0	1,849,746.6	437.30				Average	
		point227	227	6,346,087.0	1,849,805.6	439.00				Average	
		point226	226	6,346,124.5	1,849,825.6	442.00				Average	
		point225	225	6,346,176.0	1,849,837.2	445.00				Average	
		point224	224	6,346,233.5	1,849,850.8	455.00				Average	
		point223	223	6,346,262.0	1,849,859.9	456.00					
Campo Road EB - E of Jamacha Blvd	36.0	point229	229	6,346,512.0	1,849,553.4	418.00				Average	
		point230	230	6,346,408.5	1,849,580.4	420.00				Average	
		point231	231	6,346,335.5	1,849,604.6	425.00				Average	
		point232	232	6,346,225.5	1,849,643.8	430.00				Average	
		point233	233	6,346,094.5	1,849,693.2	432.50				Average	
		point234	234	6,345,982.5	1,849,743.5	437.30					
Campo Road WB L1- W of Jamacha Blvd	24.0	point253	253	6,345,441.5	1,850,043.0	448.00				Average	
		point252	252	6,345,509.0	1,849,987.5	447.00				Average	
		point251	251	6,345,593.5	1,849,918.0	446.50				Average	
		point250	250	6,345,669.0	1,849,861.6	446.00				Average	
		point249	249	6,345,775.0	1,849,795.6	443.50				Average	
		point248	248	6,345,841.5	1,849,757.4	441.30				Average	
		point247	247	6,345,940.5	1,849,707.1	439.00					
Campo Road WB L2- W of Jamacha Blvd	12.0	point267	267	6,345,455.5	1,850,011.8	448.00				Average	
		point266	266	6,345,531.0	1,849,944.0	447.00				Average	
		point265	265	6,345,619.5	1,849,875.5	446.50				Average	
		point264	264	6,345,717.5	1,849,809.5	446.00				Average	
		point263	263	6,345,823.5	1,849,749.6	443.50				Average	
		point262	262	6,345,917.0	1,849,701.0	439.00					
Campo Road EB - W of Jamacha Blvd	36.0	point269	269	6,345,982.5	1,849,743.5	437.30				Average	

		point235	235	6,345,881.5	1,849,797.4	441.30				Average	
		point236	236	6,345,791.5	1,849,849.5	443.50				Average	
		point237	237	6,345,724.5	1,849,893.8	446.00				Average	
		point238	238	6,345,664.5	1,849,934.5	446.50				Average	
		point239	239	6,345,605.5	1,849,980.5	447.00				Average	
		point240	240	6,345,531.0	1,850,042.1	448.00					
Campo Road WB L1- E of Jamacha Blvd	24.0	point270	270	6,345,940.5	1,849,707.1	439.00				Average	
		point246	246	6,346,038.5	1,849,655.9	435.00				Average	
		point245	245	6,346,169.0	1,849,601.1	430.00				Average	
		point244	244	6,346,282.0	1,849,559.5	425.00				Average	
		point243	243	6,346,375.5	1,849,530.9	420.00				Average	
		point242	242	6,346,499.0	1,849,500.5	418.00					
Campo Road WB L2- E of Jamacha Blvd	12.0	point271	271	6,345,917.0	1,849,701.0	439.00				Average	
		point261	261	6,346,006.5	1,849,655.9	435.00				Average	
		point260	260	6,346,102.0	1,849,613.4	430.00				Average	
		point259	259	6,346,202.0	1,849,574.2	425.00				Average	
		point258	258	6,346,306.0	1,849,540.4	423.50				Average	
		point257	257	6,346,410.0	1,849,508.2	419.00				Average	
		point256	256	6,346,502.0	1,849,485.8	418.00					
Campo Rd/SR-94 WB - @ Maxfiled Rd-2	12.0	point272	272	6,370,652.5	1,840,229.8	1,037.00				Average	
		point195	195	6,370,651.0	1,840,293.0	1,040.00				Average	
		point194	194	6,370,647.5	1,840,338.2	1,043.00				Average	
		point193	193	6,370,627.5	1,840,419.8	1,045.00				Average	
		point192	192	6,370,608.0	1,840,489.9	1,047.00				Average	
		point190	190	6,370,563.0	1,840,597.6	1,048.00				Average	
		point189	189	6,370,537.0	1,840,647.4	1,047.50				Average	
		point188	188	6,370,494.0	1,840,713.9	1,047.00				Average	
		point186	186	6,370,418.0	1,840,805.8	1,046.00				Average	
		point185	185	6,370,359.5	1,840,860.1	1,045.00				Average	
		point184	184	6,370,308.0	1,840,902.4	1,044.00				Average	
		point183	183	6,370,234.5	1,840,950.8	1,041.00				Average	
		point182	182	6,370,170.0	1,840,986.2	1,037.00				Average	
		point180	180	6,370,055.5	1,841,032.9	1,035.00				Average	
		point179	179	6,369,980.0	1,841,052.4	1,030.00				Average	
		point178	178	6,369,896.0	1,841,065.6	1,026.50				Average	
		point177	177	6,369,585.5	1,841,107.5	1,016.00					
Campo Rd/SR-94 EB - @ Maxfiled Rd-2	12.0	point273	273	6,370,628.5	1,840,228.0	1,037.00				Average	
		point159	159	6,370,630.0	1,839,940.9	1,028.00					

LDN **9 August 2014**
Louden **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: **SR-94 Intersection Improvements**
RUN: **Existing Conditions**

Roadway	Points											
Name	Name	No.	Segment									
			Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
SR-94-EB Lane 1	point17	17	771	55	41	55	28	55	0	0	0	0
	point16	16	771	55	41	55	28	55	0	0	0	0
	point15	15	771	55	41	55	28	55	0	0	0	0
	point14	14	771	55	41	55	28	55	0	0	0	0
	point13	13										
SR-94-EB Lane 2	point26	26	771	55	41	55	28	55	0	0	0	0
	point25	25	771	55	41	55	28	55	0	0	0	0
	point24	24	386	55	20	55	14	55	0	0	0	0
	point23	23	386	55	20	55	14	55	0	0	0	0
	point22	22										
Jamacha Rd/SR-54-WB Lane 2	point37	37	529	50	25	50	17	50	0	0	0	0
	point36	36	529	50	25	50	17	50	0	0	0	0
	point35	35	529	50	25	50	17	50	0	0	0	0
	point34	34										
Jamacha Rd/SR-54-WB Lane 1	point48	48	529	50	25	50	17	50	0	0	0	0
	point47	47	529	50	25	50	17	50	0	0	0	0
	point46	46	529	50	25	50	17	50	0	0	0	0
	point45	45										
SR-94-EB RT Lane	point53	53	386	55	20	55	14	55	0	0	0	0
	point52	52	386	55	20	55	14	55	0	0	0	0
	point51	51	386	55	20	55	14	55	0	0	0	0
	point50	50	386	55	20	55	14	55	0	0	0	0
	point49	49										

SR-94-LTLane	point58	58	0	0	0	0	0	0	0	0	0	0
	point57	57	0	0	0	0	0	0	0	0	0	0
	point56	56	0	0	0	0	0	0	0	0	0	0
	point55	55	0	0	0	0	0	0	0	0	0	0
	point54	54										
Campo Road\SR-94 - SB	point67	67	733	40	35	40	25	40	0	0	0	0
	point66	66	733	40	35	40	25	40	0	0	0	0
	point65	65	733	40	35	40	25	40	0	0	0	0
	point64	64	733	40	35	40	25	40	0	0	0	0
	point63	63	733	40	35	40	25	40	0	0	0	0
	point62	62	733	40	35	40	25	40	0	0	0	0
	point61	61	733	40	35	40	25	40	0	0	0	0
	point60	60	733	40	35	40	25	40	0	0	0	0
	point59	59										
Campo Road\SR-94 - NB LT Lane	point71	71	367	40	18	40	13	40	0	0	0	0
	point70	70	367	40	18	40	13	40	0	0	0	0
	point69	69	367	40	18	40	13	40	0	0	0	0
	point68	68										
Roadway10	point82	82	733	40	35	40	25	40	0	0	0	0
	point81	81	733	40	35	40	25	40	0	0	0	0
	point80	80	733	40	35	40	25	40	0	0	0	0
	point79	79	733	40	35	40	25	40	0	0	0	0
	point78	78	733	40	35	40	25	40	0	0	0	0
	point77	77	733	40	35	40	25	40	0	0	0	0
	point76	76	733	40	35	40	25	40	0	0	0	0
	point75	75	367	40	18	40	13	40	0	0	0	0
	point74	74	367	40	18	40	13	40	0	0	0	0
	point73	73	367	40	18	40	13	40	0	0	0	0
	point72	72										
Campo Rd/SR-94 WB - E of Steele Cnyn	point103	103	623	45	30	45	21	45	0	0	0	0
	point102	102	623	45	30	45	21	45	0	0	0	0
	point101	101	623	45	30	45	21	45	0	0	0	0
	point100	100	623	45	30	45	21	45	0	0	0	0
	point99	99	623	45	30	45	21	45	0	0	0	0
	point98	98	623	45	30	45	21	45	0	0	0	0
	point97	97	623	45	30	45	21	45	0	0	0	0

	point96	96	623	45	30	45	21	45	0	0	0	0
	point95	95	623	45	30	45	21	45	0	0	0	0
	point94	94	623	45	30	45	21	45	0	0	0	0
	point93	93	623	45	30	45	21	45	0	0	0	0
	point92	92										
Campo Rd/SR-94 EB - W of Steele Cnyn	point126	126	676	45	32	45	23	45	0	0	0	0
	point125	125	676	45	32	45	23	45	0	0	0	0
	point124	124	676	45	32	45	23	45	0	0	0	0
	point123	123	676	45	32	45	23	45	0	0	0	0
	point122	122	676	45	32	45	23	45	0	0	0	0
	point121	121	676	45	32	45	23	45	0	0	0	0
	point120	120	676	45	32	45	23	45	0	0	0	0
	point119	119	676	45	32	45	23	45	0	0	0	0
	point118	118										
Steele Cnyn NB	point130	130	235	35	12	35	8	35	0	0	0	0
	point129	129	235	35	12	35	8	35	0	0	0	0
	point128	128	235	35	12	35	8	35	0	0	0	0
	point127	127										
Steele Cnyn SB	point135	135	235	35	12	35	8	35	0	0	0	0
	point134	134	235	35	12	35	8	35	0	0	0	0
	point133	133	235	35	12	35	8	35	0	0	0	0
	point132	132	235	35	12	35	8	35	0	0	0	0
	point131	131										
Campo Rd/SR-94 WB - @ Lyons Valley	point140	140	404	45	19	45	14	45	0	0	0	0
	point139	139	632	45	30	45	21	45	0	0	0	0
	point138	138	632	45	30	45	21	45	0	0	0	0
	point137	137	632	45	30	45	21	45	0	0	0	0
	point136	136										
Campo Rd/SR-94 EB - @ Lyons Valley	point144	144	632	45	30	45	21	45	0	0	0	0
	point143	143	632	45	30	45	21	45	0	0	0	0
	point142	142	404	45	19	45	14	45	0	0	0	0
	point141	141										
Roadway17	point147	147	13	25	1	25	1	25	0	0	0	0
	point146	146	13	25	1	25	1	25	0	0	0	0
	point145	145										
Lyons Valley Driveway SB	point148	148	13	25	1	25	1	25	0	0	0	0

	point149	149										
Lyons Valley Rd SB	point153	153	235	40	12	40	8	40	0	0	0	0
	point152	152	235	40	12	40	8	40	0	0	0	0
	point151	151	235	40	12	40	8	40	0	0	0	0
	point150	150										
Roadway20	point158	158	235	40	12	40	8	40	0	0	0	0
	point157	157	235	40	12	40	8	40	0	0	0	0
	point156	156	235	40	12	40	8	40	0	0	0	0
	point155	155	235	40	12	40	8	40	0	0	0	0
	point154	154										
Campo Rd/SR-94 EB - @ Maxfiled Rd	point176	176	309	45	15	45	11	45	0	0	0	0
	point175	175	309	45	15	45	11	45	0	0	0	0
	point174	174	309	45	15	45	11	45	0	0	0	0
	point173	173	309	45	15	45	11	45	0	0	0	0
	point172	172	309	45	15	45	11	45	0	0	0	0
	point171	171	309	45	15	45	11	45	0	0	0	0
	point170	170	309	45	15	45	11	45	0	0	0	0
	point169	169	309	45	15	45	11	45	0	0	0	0
	point168	168	309	45	15	45	11	45	0	0	0	0
	point167	167	309	45	15	45	11	45	0	0	0	0
	point166	166	309	45	15	45	11	45	0	0	0	0
	point165	165	309	45	15	45	11	45	0	0	0	0
	point164	164	309	45	15	45	11	45	0	0	0	0
	point163	163	309	45	15	45	11	45	0	0	0	0
	point162	162	309	45	15	45	11	45	0	0	0	0
	point161	161	309	45	15	45	11	45	0	0	0	0
	point160	160										
Campo Rd/SR-94 WB - @ Maxfiled Rd	point197	197	302	45	15	45	10	45	0	0	0	0
	point196	196										
Maxfiled Rd WB	point198	198	14	25	1	25	1	25	0	0	0	0
	point199	199										
Maxfiled Rd EB	point200	200	14	25	1	25	1	25	0	0	0	0
	point201	201										
Jamacha Rd/SR-54-EB Lane 2	point202	202	529	50	25	50	17	50	0	0	0	0
	point21	21	529	50	25	50	17	50	0	0	0	0
	point20	20	529	50	25	50	17	50	0	0	0	0

	point19	19	529	50	25	50	17	50	0	0	0	0
	point18	18										
Jamacha Rd/SR-54-EB Lane 1	point203	203	529	50	25	50	17	50	0	0	0	0
	point12	12	529	50	25	50	17	50	0	0	0	0
	point11	11	529	50	25	50	17	50	0	0	0	0
	point10	10	529	50	25	50	17	50	0	0	0	0
	point9	9										
Campo Rd/SR-94-WB Lane 1	point204	204	771	55	41	55	28	55	0	0	0	0
	point44	44	771	55	41	55	28	55	0	0	0	0
	point43	43	771	55	41	55	28	55	0	0	0	0
	point42	42	771	55	41	55	28	55	0	0	0	0
	point41	41	771	55	41	55	28	55	0	0	0	0
	point40	40	771	55	41	55	28	55	0	0	0	0
	point39	39	771	55	41	55	28	55	0	0	0	0
	point38	38										
Campo Road/SR-94-WB Lane 2	point205	205	771	55	41	55	28	55	0	0	0	0
	point33	33	771	55	41	55	28	55	0	0	0	0
	point32	32	771	55	41	55	28	55	0	0	0	0
	point31	31	771	55	41	55	28	55	0	0	0	0
	point30	30	771	55	41	55	28	55	0	0	0	0
	point29	29	771	55	41	55	28	55	0	0	0	0
	point28	28	771	55	41	55	28	55	0	0	0	0
	point27	27										
Campo Rd/SR-94 EB - E of Steele Cnyn	point206	206	623	45	30	45	21	45	0	0	0	0
	point117	117	623	45	30	45	21	45	0	0	0	0
	point116	116	623	45	30	45	21	45	0	0	0	0
	point115	115	623	45	30	45	21	45	0	0	0	0
	point114	114	623	45	30	45	21	45	0	0	0	0
	point113	113	623	45	30	45	21	45	0	0	0	0
	point112	112	623	45	30	45	21	45	0	0	0	0
	point111	111	623	45	30	45	21	45	0	0	0	0
	point110	110	623	45	30	45	21	45	0	0	0	0
	point109	109	623	45	30	45	21	45	0	0	0	0
	point108	108	623	45	30	45	21	45	0	0	0	0
	point107	107	623	45	30	45	21	45	0	0	0	0
	point106	106	623	45	30	45	21	45	0	0	0	0

	point105	105	623	45	30	45	21	45	0	0	0	0
	point104	104										
Campo Rd/SR-94 WB - W of Steele Cnyn	point207	207	676	45	32	45	23	45	0	0	0	0
	point91	91	676	45	32	45	23	45	0	0	0	0
	point90	90	676	45	32	45	23	45	0	0	0	0
	point89	89	676	45	32	45	23	45	0	0	0	0
	point88	88	676	45	32	45	23	45	0	0	0	0
	point87	87	676	45	32	45	23	45	0	0	0	0
	point86	86	676	45	32	45	23	45	0	0	0	0
	point85	85	676	45	32	45	23	45	0	0	0	0
	point84	84	676	45	32	45	23	45	0	0	0	0
	point83	83										
Jamacha Blvd SB	point208	208	643	50	31	50	22	50	0	0	0	0
	point209	209	643	50	31	50	22	50	0	0	0	0
	point210	210	643	50	31	50	22	50	0	0	0	0
	point211	211										
Jamacha Blvd NB	point214	214	643	50	31	50	22	50	0	0	0	0
	point213	213	322	50	16	50	11	50	0	0	0	0
	point212	212										
Jamacha Blvd NB - LT Lane	point215	215	322	50	16	50	11	50	0	0	0	0
	point216	216										
Skyline Driveway Egress	point222	222	13	25	1	25	1	25	0	0	0	0
	point221	221	13	25	1	25	1	25	0	0	0	0
	point220	220	13	25	1	25	1	25	0	0	0	0
	point219	219	13	25	1	25	1	25	0	0	0	0
	point218	218	13	25	1	25	1	25	0	0	0	0
	point217	217										
Skyline Driveway Ingress	point228	228	13	25	1	25	1	25	0	0	0	0
	point227	227	13	25	1	25	1	25	0	0	0	0
	point226	226	13	25	1	25	1	25	0	0	0	0
	point225	225	13	25	1	25	1	25	0	0	0	0
	point224	224	13	25	1	25	1	25	0	0	0	0
	point223	223										
Campo Road EB - E of Jamacha Blvd	point229	229	1717	55	81	55	57	55	0	0	0	0
	point230	230	1717	55	81	55	57	55	0	0	0	0
	point231	231	1717	55	81	55	57	55	0	0	0	0

	point232	232	1717	55	81	55	57	55	0	0	0	0
	point233	233	1717	55	81	55	57	55	0	0	0	0
	point234	234										
Campo Road WB L1- W of Jamacha Blvd	point253	253	1063	55	50	55	36	55	0	0	0	0
	point252	252	1063	55	50	55	36	55	0	0	0	0
	point251	251	1063	55	50	55	36	55	0	0	0	0
	point250	250	1063	55	50	55	36	55	0	0	0	0
	point249	249	1063	55	50	55	36	55	0	0	0	0
	point248	248	1063	55	50	55	36	55	0	0	0	0
	point247	247										
Campo Road WB L2- W of Jamacha Blvd	point267	267	1063	55	50	55	36	55	0	0	0	0
	point266	266	1063	55	50	55	36	55	0	0	0	0
	point265	265	1063	55	50	55	36	55	0	0	0	0
	point264	264	1063	55	50	55	36	55	0	0	0	0
	point263	263	1063	55	50	55	36	55	0	0	0	0
	point262	262										
Campo Road EB - W of Jamacha Blvd	point269	269	2125	55	100	55	71	55	0	0	0	0
	point235	235	2125	55	100	55	71	55	0	0	0	0
	point236	236	2125	55	100	55	71	55	0	0	0	0
	point237	237	2125	55	100	55	71	55	0	0	0	0
	point238	238	2125	55	100	55	71	55	0	0	0	0
	point239	239	2125	55	100	55	71	55	0	0	0	0
	point240	240										
Campo Road WB L1- E of Jamacha Blvd	point270	270	859	55	41	55	29	55	0	0	0	0
	point246	246	859	55	41	55	29	55	0	0	0	0
	point245	245	859	55	41	55	29	55	0	0	0	0
	point244	244	859	55	41	55	29	55	0	0	0	0
	point243	243	859	55	41	55	29	55	0	0	0	0
	point242	242										
Campo Road WB L2- E of Jamacha Blvd	point271	271	859	55	41	55	29	55	0	0	0	0
	point261	261	859	55	41	55	29	55	0	0	0	0
	point260	260	859	55	41	55	29	55	0	0	0	0
	point259	259	859	55	41	55	29	55	0	0	0	0
	point258	258	859	55	41	55	29	55	0	0	0	0
	point257	257	859	55	41	55	29	55	0	0	0	0
	point256	256										

Campo Rd/SR-94 WB - @ Maxfiled Rd-2	point272	272	309	45	15	45	11	45	0	0	0	0
	point195	195	309	45	15	45	11	45	0	0	0	0
	point194	194	309	45	15	45	11	45	0	0	0	0
	point193	193	309	45	15	45	11	45	0	0	0	0
	point192	192	309	45	15	45	11	45	0	0	0	0
	point190	190	309	45	15	45	11	45	0	0	0	0
	point189	189	309	45	15	45	11	45	0	0	0	0
	point188	188	309	45	15	45	11	45	0	0	0	0
	point186	186	309	45	15	45	11	45	0	0	0	0
	point185	185	309	45	15	45	11	45	0	0	0	0
	point184	184	309	45	15	45	11	45	0	0	0	0
	point183	183	309	45	15	45	11	45	0	0	0	0
	point182	182	309	45	15	45	11	45	0	0	0	0
	point180	180	309	45	15	45	11	45	0	0	0	0
	point179	179	309	45	15	45	11	45	0	0	0	0
	point178	178	309	45	15	45	11	45	0	0	0	0
	point177	177										
Campo Rd/SR-94 EB - @ Maxfiled Rd-2	point273	273	302	45	15	45	10	45	0	0	0	0
	point159	159										

LDN 9 August 2014
Louden TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: SR-94 Intersection Improvements
RUN: Existing Conditions

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria Existing LAeq1h	Impact Criteria LAeq1h	Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
R-26	1	1	6,345,744.0	1,850,247.0	483.00	4.92	0.00	66	10.0	8.0	Y
R-27	4	1	6,348,136.0	1,849,676.4	371.00	4.92	0.00	72	10.0	8.0	Y
R-28	6	1	6,348,278.0	1,849,691.9	365.00	4.92	0.00	66	10.0	8.0	Y
R-29	7	1	6,348,409.0	1,849,728.8	356.00	4.92	0.00	66	10.0	8.0	Y
R-30	8	1	6,348,496.5	1,849,663.1	356.00	4.92	0.00	66	10.0	8.0	Y
R-31	9	1	6,348,577.0	1,849,681.5	356.00	4.92	0.00	66	10.0	8.0	Y
R-32	10	1	6,348,854.5	1,849,700.2	356.00	4.92	0.00	66	10.0	8.0	Y
R-33	11	1	6,349,069.5	1,849,716.8	353.00	4.92	0.00	66	10.0	8.0	Y
R-34	12	1	6,348,728.0	1,849,184.4	348.00	4.92	0.00	66	10.0	8.0	Y
R-35	13	1	6,348,933.5	1,849,333.9	345.00	4.92	0.00	66	10.0	8.0	Y
R-36	14	1	6,348,988.5	1,849,352.8	345.00	4.92	0.00	66	10.0	8.0	Y
R-37	15	1	6,349,038.0	1,849,246.0	342.00	4.92	0.00	66	10.0	8.0	Y
R-38	19	1	6,349,579.0	1,848,305.0	329.00	4.92	0.00	66	10.0	8.0	Y
R-39	22	1	6,357,703.5	1,844,585.4	532.00	4.92	0.00	66	10.0	8.0	Y
R-40	23	1	6,358,049.0	1,844,722.1	555.00	4.92	0.00	66	10.0	8.0	Y
R-41	24	1	6,357,771.5	1,844,281.5	518.00	4.92	0.00	66	10.0	8.0	Y
R-42	26	1	6,358,683.5	1,844,936.1	555.00	4.92	0.00	66	10.0	8.0	Y
R-43	27	1	6,358,290.0	1,844,908.5	572.00	4.92	0.00	66	10.0	8.0	Y
R-44	28	1	6,358,640.0	1,845,078.5	563.00	4.92	0.00	66	10.0	8.0	Y
R-45	29	1	6,358,827.0	1,845,049.2	555.00	4.92	0.00	66	10.0	8.0	Y
R-46	30	1	6,359,083.0	1,845,176.5	553.00	4.92	0.00	66	10.0	8.0	Y
R-47	31	1	6,358,940.5	1,845,301.5	566.00	4.92	0.00	66	10.0	8.0	Y

R-48	32	1	6,358,935.0	1,845,362.2	568.00	4.92	0.00	66	10.0	8.0	Y
R-49	33	1	6,358,923.0	1,845,479.5	576.50	4.92	0.00	66	10.0	8.0	Y
R-50	34	1	6,359,499.5	1,845,678.0	588.00	4.92	0.00	66	10.0	8.0	Y
R-51	35	1	6,359,786.5	1,845,716.2	590.00	4.92	0.00	66	10.0	8.0	Y
R-52	36	1	6,359,908.0	1,845,755.1	590.00	4.92	0.00	66	10.0	8.0	Y
R-53	38	1	6,367,663.5	1,842,403.4	890.00	4.92	0.00	66	10.0	8.0	Y
R-54	40	1	6,367,853.0	1,842,112.0	890.00	4.92	0.00	66	10.0	8.0	Y
R-55	41	1	6,367,975.0	1,842,298.4	900.00	4.92	0.00	66	10.0	8.0	Y
R-56	44	1	6,370,215.0	1,840,600.0	1,065.00	4.92	0.00	66	10.0	8.0	Y
R-57	45	1	6,370,314.0	1,840,507.1	1,060.00	4.92	0.00	66	10.0	8.0	Y
R-58	46	1	6,370,501.5	1,840,121.6	1,039.00	4.92	0.00	66	10.0	8.0	Y
R-59	47	1	6,370,809.0	1,840,171.1	1,031.00	4.92	0.00	66	10.0	8.0	Y
R-60	48	1	6,370,712.5	1,840,009.6	1,028.00	4.92	0.00	66	10.0	8.0	Y

LDN **9 August 2014**
Louden **TNM 2.5**

INPUT: BARRIERS
PROJECT/CONTRACT: **SR-94 Intersection Improvements**
RUN: **Existing Conditions**

Barrier Name	Type	Height Min	Height Max	If Wall $ per Unit Area	If Berm $ per Unit Vol.	Top Width	Run:Rise	Add'tnl $ per Unit Length	Points Name	No.	Coordinates (bottom) X	Y	Z	Height at Point	Segment Seg Ht Increment	Perturbs #Up	#Dn	On Struct?	Important Reflections?
		ft	ft	$/sq ft	$/cu yd	ft	ft:ft	$/ft			ft	ft	ft	ft	ft				
TGI Friday's Dinning Wall	W	0.00	99.99	0.00				0.00	point1	1	6,348,965.0	1,849,340.1	345.00	8.00	0.00	0	0		
									point2	2	6,348,973.5	1,849,323.4	345.00	8.00	0.00	0	0		
									point3	3	6,348,944.0	1,849,312.9	345.00	8.00	0.00	0	0		
									point4	4	6,348,931.5	1,849,317.8	345.00	8.00	0.00	0	0		
									point5	5	6,348,901.0	1,849,378.2	345.00	8.00					
Skyline Church Meeting Rooms	W	0.00	99.99	0.00				0.00	point6	6	6,345,628.5	1,850,474.8	483.00	35.00	0.00	0	0		
									point7	7	6,345,804.0	1,850,320.8	483.00	35.00	0.00	0	0		
									point8	8	6,345,748.0	1,850,247.1	483.00	35.00	0.00	0	0		
									point9	9	6,345,570.0	1,850,398.0	483.00	35.00	0.00	0	0		
									point10	10	6,345,628.5	1,850,474.8	483.00	35.00					
Unoccupies House	W	0.00	99.99	0.00				0.00	point11	11	6,348,100.0	1,849,719.1	371.00	14.00	0.00	0	0		
									point12	12	6,348,150.5	1,849,719.1	371.00	14.00	0.00	0	0		
									point13	13	6,348,150.5	1,849,678.9	371.00	14.00	0.00	0	0		
									point14	14	6,348,100.0	1,849,678.9	371.00	14.00	0.00	0	0		
									point15	15	6,348,100.0	1,849,719.1	371.00	14.00					
Car Dealership	W	0.00	99.99	0.00				0.00	point16	16	6,348,282.5	1,849,696.1	365.00	14.00	0.00	0	0		
									point17	17	6,348,324.0	1,849,693.2	365.00	14.00	0.00	0	0		
									point18	18	6,348,322.0	1,849,663.4	365.00	14.00	0.00	0	0		
									point19	19	6,348,280.5	1,849,666.4	365.00	14.00	0.00	0	0		
									point20	20	6,348,282.5	1,849,696.1	365.00	14.00					
Circle K	W	0.00	99.99	0.00				0.00	point21	21	6,348,453.0	1,849,718.0	356.00	20.00	0.00	0	0		
									point22	22	6,348,501.5	1,849,717.5	356.00	20.00	0.00	0	0		
									point23	23	6,348,500.5	1,849,663.2	356.00	20.00	0.00	0	0		
									point24	24	6,348,452.5	1,849,663.9	356.00	20.00	0.00	0	0		
									point25	25	6,348,453.0	1,849,718.0	356.00	20.00					
Gas Station Garage	W	0.00	99.99	0.00				0.00	point26	26	6,348,510.0	1,849,806.6	358.00	20.00	0.00	0	0		
									point27	27	6,348,588.5	1,849,806.6	358.00	20.00	0.00	0	0		
									point28	28	6,348,588.5	1,849,770.9	358.00	20.00	0.00	0	0		
									point29	29	6,348,510.0	1,849,770.9	358.00	20.00	0.00	0	0		
									point30	30	6,348,510.0	1,849,806.6	358.00	20.00					
Burger King	W	0.00	99.99	0.00				0.00	point31	31	6,348,771.0	1,849,769.1	356.00	20.00	0.00	0	0		
									point32	32	6,348,813.0	1,849,673.1	356.00	20.00	0.00	0	0		
									point33	33	6,348,849.5	1,849,689.1	356.00	20.00	0.00	0	0		
									point34	34	6,348,808.0	1,849,785.1	356.00	20.00	0.00	0	0		
									point35	35	6,348,771.0	1,849,769.1	356.00	20.00					

Animal Hospital	W	0.00	99.99	0.00				0.00	point36	36	6,349,077.0	1,849,724.6	353.00	20.00	0.00	0	0		
									point37	37	6,349,044.0	1,849,795.2	353.00	20.00	0.00	0	0		
									point38	38	6,348,984.0	1,849,767.4	353.00	20.00	0.00	0	0		
									point39	39	6,349,017.0	1,849,696.9	353.00	20.00	0.00	0	0		
									point40	40	6,349,077.0	1,849,724.6	353.00	20.00					
TGI Friday's	W	0.00	99.99	0.00				0.00	point41	41	6,348,898.5	1,849,454.5	345.00	20.00	0.00	0	0		
									point42	42	6,348,996.0	1,849,388.1	345.00	20.00	0.00	0	0		
									point43	43	6,348,962.0	1,849,338.1	345.00	20.00	0.00	0	0		
									point44	44	6,348,864.5	1,849,404.5	345.00	20.00	0.00	0	0		
									point45	45	6,348,898.5	1,849,454.5	345.00	20.00					
Bank/Retail	W	0.00	99.99	0.00				0.00	point46	46	6,348,913.5	1,849,245.5	342.00	20.00	0.00	0	0		
									point47	47	6,349,010.0	1,849,286.2	342.00	20.00	0.00	0	0		
									point48	48	6,349,051.0	1,849,189.0	342.00	20.00	0.00	0	0		
									point49	49	6,348,954.5	1,849,148.2	342.00	20.00	0.00	0	0		
									point50	50	6,348,913.5	1,849,245.5	342.00	20.00					
YMCA	W	0.00	99.99	0.00				0.00	point51	51	6,349,278.0	1,848,361.8	329.00	36.00	0.00	0	0		
									point52	52	6,349,370.0	1,848,376.2	329.00	36.00	0.00	0	0		
									point53	53	6,349,384.0	1,848,282.6	329.00	36.00	0.00	0	0		
									point54	54	6,349,401.5	1,848,285.8	329.00	36.00	0.00	0	0		
									point55	55	6,349,410.5	1,848,246.8	329.00	36.00	0.00	0	0		
									point56	56	6,349,395.0	1,848,243.5	329.00	36.00	0.00	0	0		
									point57	57	6,349,398.5	1,848,225.0	329.00	36.00	0.00	0	0		
									point58	58	6,349,413.5	1,848,226.1	329.00	36.00	0.00	0	0		
									point59	59	6,349,434.0	1,848,125.2	329.00	36.00	0.00	0	0		
									point60	60	6,349,500.5	1,848,145.9	329.00	36.00	0.00	0	0		
									point61	61	6,349,543.5	1,848,143.6	329.00	36.00	0.00	0	0		
									point62	62	6,349,568.5	1,848,093.8	329.00	36.00	0.00	0	0		
									point63	63	6,349,511.0	1,847,967.9	329.00	36.00	0.00	0	0		
									point64	64	6,349,319.0	1,847,935.4	329.00	36.00	0.00	0	0		
									point65	65	6,349,307.0	1,848,033.0	329.00	36.00	0.00	0	0		
									point66	66	6,349,318.0	1,848,040.6	329.00	36.00	0.00	0	0		
									point67	67	6,349,297.5	1,848,161.0	329.00	36.00	0.00	0	0		
									point68	68	6,349,307.5	1,848,161.9	329.00	36.00	0.00	0	0		
									point69	69	6,349,292.0	1,848,257.6	329.00	36.00	0.00	0	0		
									point70	70	6,349,298.5	1,848,259.8	329.00	36.00	0.00	0	0		
									point71	71	6,349,278.0	1,848,361.8	329.00	36.00					
3155 Fair Acres Lane	W	0.00	99.99	0.00				0.00	point72	72	6,357,679.0	1,844,660.2	532.00	14.00	0.00	0	0		
									point73	73	6,357,751.5	1,844,663.1	532.00	14.00	0.00	0	0		
									point74	74	6,357,753.5	1,844,613.4	532.00	14.00	0.00	0	0		
									point75	75	6,357,681.0	1,844,610.4	532.00	14.00	0.00	0	0		
									point76	76	6,357,679.0	1,844,660.2	532.00	14.00					
12786 Campo Road	W	0.00	99.99	0.00				0.00	point77	77	6,357,805.5	1,844,669.8	536.00	14.00	0.00	0	0		
									point78	78	6,357,884.5	1,844,673.9	536.00	14.00	0.00	0	0		
									point79	79	6,357,887.0	1,844,624.5	536.00	14.00	0.00	0	0		
									point80	80	6,357,808.0	1,844,620.2	536.00	14.00	0.00	0	0		
									point81	81	6,357,805.5	1,844,669.8	536.00	14.00					
3140 Florence Terrace	W	0.00	99.99	0.00				0.00	point82	82	6,357,800.5	1,844,340.6	518.00	14.00	0.00	0	0		
									point83	83	6,357,889.0	1,844,356.0	518.00	14.00	0.00	0	0		
									point84	84	6,357,897.0	1,844,310.9	518.00	14.00	0.00	0	0		

									point85	85	6,357,808.5	1,844,295.5	518.00	14.00	0.00	0	0			
									point86	86	6,357,800.5	1,844,340.6	518.00	14.00						
3113 Pine Lane	W	0.00	99.99	0.00				0.00	point87	87	6,357,989.5	1,844,752.2	555.00	14.00	0.00	0	0			
									point88	88	6,358,016.0	1,844,754.1	555.00	14.00	0.00	0	0			
									point89	89	6,358,016.0	1,844,740.8	555.00	14.00	0.00	0	0			
									point90	90	6,358,040.5	1,844,741.4	555.00	14.00	0.00	0	0			
									point91	91	6,358,043.0	1,844,707.2	555.00	14.00	0.00	0	0			
									point92	92	6,357,993.0	1,844,703.6	555.00	14.00	0.00	0	0			
									point93	93	6,357,989.5	1,844,752.2	555.00	14.00						
12856 Campo Road	W	0.00	99.99	0.00				0.00	point94	94	6,358,360.5	1,844,952.8	572.00	14.00	0.00	0	0			
									point95	95	6,358,332.5	1,844,935.4	572.00	14.00	0.00	0	0			
									point96	96	6,358,319.5	1,844,906.8	572.00	14.00	0.00	0	0			
									point97	97	6,358,307.0	1,844,909.5	572.00	14.00	0.00	0	0			
									point98	98	6,358,301.5	1,844,891.4	572.00	14.00	0.00	0	0			
									point99	99	6,358,314.5	1,844,888.0	572.00	14.00	0.00	0	0			
									point100	100	6,358,307.0	1,844,847.4	572.00	14.00	0.00	0	0			
									point101	101	6,358,324.0	1,844,819.9	572.00	14.00	0.00	0	0			
									point102	102	6,358,346.5	1,844,834.4	572.00	14.00	0.00	0	0			
									point103	103	6,358,337.5	1,844,849.0	572.00	14.00	0.00	0	0			
									point104	104	6,358,342.5	1,844,867.2	572.00	14.00	0.00	0	0			
									point105	105	6,358,356.5	1,844,863.4	572.00	14.00	0.00	0	0			
									point106	106	6,358,363.5	1,844,885.5	572.00	14.00	0.00	0	0			
									point107	107	6,358,359.0	1,844,889.4	572.00	14.00	0.00	0	0			
									point108	108	6,358,360.5	1,844,895.5	572.00	14.00	0.00	0	0			
									point109	109	6,358,354.5	1,844,902.9	572.00	14.00	0.00	0	0			
									point110	110	6,358,347.5	1,844,902.9	572.00	14.00	0.00	0	0			
									point111	111	6,358,352.5	1,844,916.8	572.00	14.00	0.00	0	0			
									point112	112	6,358,376.0	1,844,928.0	572.00	14.00	0.00	0	0			
									point113	113	6,358,360.5	1,844,952.8	572.00	14.00						
Ranch Feed and Supply Store	W	0.00	99.99	0.00				0.00	point114	114	6,358,588.5	1,845,165.4	563.00	14.00	0.00	0	0			
									point115	115	6,358,592.5	1,845,051.1	563.00	14.00	0.00	0	0			
									point116	116	6,358,631.5	1,845,053.8	563.00	14.00	0.00	0	0			
									point117	117	6,358,624.5	1,845,172.6	563.00	14.00	0.00	0	0			
									point118	118	6,358,587.0	1,845,170.1	563.00	14.00						
Ranch Feed and Supply Store Barn	W	0.00	99.99	0.00				0.00	point119	119	6,358,673.5	1,845,154.1	563.00	20.00	0.00	0	0			
									point120	120	6,358,701.0	1,845,173.6	563.00	20.00	0.00	0	0			
									point121	121	6,358,730.5	1,845,132.0	563.00	20.00	0.00	0	0			
									point122	122	6,358,703.0	1,845,112.5	563.00	20.00	0.00	0	0			
									point123	123	6,358,673.5	1,845,154.1	563.00	20.00						
Steele Canyon Produce	W	0.00	99.99	0.00				0.00	point124	124	6,358,670.0	1,844,924.1	555.00	14.00	0.00	0	0			
									point125	125	6,358,776.5	1,845,006.0	555.00	14.00	0.00	0	0			
									point126	126	6,358,795.5	1,844,980.9	555.00	14.00	0.00	0	0			
									point127	127	6,358,726.0	1,844,932.2	555.00	14.00	0.00	0	0			
									point128	128	6,358,732.0	1,844,924.4	555.00	14.00	0.00	0	0			
									point129	129	6,358,691.5	1,844,894.0	555.00	14.00	0.00	0	0			
									point130	130	6,358,670.0	1,844,924.1	555.00	14.00						
Greek Sombrer	W	0.00	99.99	0.00				0.00	point131	131	6,358,901.0	1,845,085.5	555.00	14.00	0.00	0	0			
									point132	132	6,358,928.5	1,845,042.9	555.00	14.00	0.00	0	0			
									point133	133	6,358,860.0	1,844,998.6	555.00	14.00	0.00	0	0			

									point134	134	6,358,832.5	1,845,041.2	555.00	14.00	0.00	0	0			
									point135	135	6,358,901.0	1,845,085.5	555.00	14.00						
12931 Highway 94	W	0.00	99.99	0.00				0.00	point136	136	6,359,100.0	1,845,216.6	553.00	14.00	0.00	0	0			
									point137	137	6,359,043.0	1,845,196.1	553.00	14.00	0.00	0	0			
									point138	138	6,359,053.0	1,845,162.9	553.00	14.00	0.00	0	0			
									point139	139	6,359,076.5	1,845,169.8	553.00	14.00	0.00	0	0			
									point140	140	6,359,071.0	1,845,180.0	553.00	14.00	0.00	0	0			
									point141	141	6,359,107.0	1,845,190.9	553.00	14.00	0.00	0	0			
									point142	142	6,359,100.0	1,845,216.6	553.00	14.00						
Retail Services Center	W	0.00	99.99	0.00				0.00	point143	143	6,358,870.5	1,845,559.5	576.50	20.00	0.00	0	0			
									point144	144	6,358,991.5	1,845,576.4	576.50	20.00	0.00	0	0			
									point145	145	6,358,991.5	1,845,566.8	576.50	20.00	0.00	0	0			
									point146	146	6,359,091.5	1,845,578.0	576.50	20.00	0.00	0	0			
									point147	147	6,359,093.5	1,845,569.4	576.50	20.00	0.00	0	0			
									point148	148	6,359,171.5	1,845,578.0	576.50	20.00	0.00	0	0			
									point149	149	6,359,178.5	1,845,522.5	576.50	20.00	0.00	0	0			
									point150	150	6,358,880.5	1,845,485.1	576.50	20.00	0.00	0	0			
									point151	151	6,358,870.5	1,845,559.5	576.50	20.00						
7-11	W	0.00	99.99	0.00				0.00	point152	152	6,358,920.0	1,845,423.2	568.00	20.00	0.00	0	0			
									point153	153	6,359,003.5	1,845,433.2	568.00	20.00	0.00	0	0			
									point154	154	6,359,009.5	1,845,383.0	568.00	20.00	0.00	0	0			
									point155	155	6,358,926.0	1,845,372.9	568.00	20.00	0.00	0	0			
									point156	156	6,358,920.0	1,845,423.2	568.00	20.00						
3215 Vis Las Faldas	W	0.00	99.99	0.00				0.00	point157	157	6,359,412.5	1,845,659.6	588.00	14.00	0.00	0	0			
									point158	158	6,359,466.0	1,845,662.0	588.00	14.00	0.00	0	0			
									point159	159	6,359,466.0	1,845,671.1	588.00	14.00	0.00	0	0			
									point160	160	6,359,495.0	1,845,670.6	588.00	14.00	0.00	0	0			
									point161	161	6,359,495.0	1,845,663.8	588.00	14.00	0.00	0	0			
									point162	162	6,359,526.5	1,845,665.9	588.00	14.00	0.00	0	0			
									point163	163	6,359,529.5	1,845,628.5	588.00	14.00	0.00	0	0			
									point164	164	6,359,412.5	1,845,621.5	588.00	14.00	0.00	0	0			
									point165	165	6,359,410.0	1,845,658.9	588.00	14.00						
13004 Highway 94	W	0.00	99.99	0.00				0.00	point166	166	6,359,848.5	1,845,765.5	590.00	14.00	0.00	0	0			
									point167	167	6,359,794.5	1,845,764.9	590.00	14.00	0.00	0	0			
									point168	168	6,359,795.5	1,845,689.4	590.00	14.00	0.00	0	0			
									point169	169	6,359,849.5	1,845,690.0	590.00	14.00	0.00	0	0			
									point170	170	6,359,848.5	1,845,765.5	590.00	14.00						
13012 Highway 94	W	0.00	99.99	0.00				0.00	point171	171	6,359,888.5	1,845,749.9	590.00	14.00	0.00	0	0			
									point172	172	6,359,937.5	1,845,753.6	590.00	14.00	0.00	0	0			
									point173	173	6,359,935.5	1,845,747.2	590.00	14.00	0.00	0	0			
									point174	174	6,359,959.0	1,845,749.0	590.00	14.00	0.00	0	0			
									point175	175	6,359,960.5	1,845,721.4	590.00	14.00	0.00	0	0			
									point176	176	6,359,906.5	1,845,716.1	590.00	14.00	0.00	0	0			
									point177	177	6,359,907.5	1,845,713.0	590.00	14.00	0.00	0	0			
									point178	178	6,359,888.5	1,845,711.2	590.00	14.00	0.00	0	0			
									point179	179	6,359,887.0	1,845,750.0	590.00	14.00						
Commercial Offices	W	0.00	99.99	0.00				0.00	point185	185	6,367,637.5	1,842,429.2	890.00	14.00	0.00	0	0			
									point186	186	6,367,688.5	1,842,358.5	890.00	14.00	0.00	0	0			
									point187	187	6,367,669.0	1,842,344.4	890.00	14.00	0.00	0	0			

									point188	188	6,367,618.0	1,842,415.1	890.00	14.00	0.00	0	0			
									point189	189	6,367,637.5	1,842,429.2	890.00	14.00						
Taproot Tot Daycare	W	0.00	99.99	0.00				0.00	point190	190	6,367,801.5	1,842,181.6	890.00	14.00	0.00	0	0			
									point191	191	6,367,861.0	1,842,152.6	890.00	14.00	0.00	0	0			
									point192	192	6,367,831.5	1,842,091.9	890.00	14.00	0.00	0	0			
									point193	193	6,367,772.0	1,842,120.9	890.00	14.00	0.00	0	0			
									point194	194	6,367,801.5	1,842,181.6	890.00	14.00						
Real Estate Office	W	0.00	99.99	0.00				0.00	point195	195	6,367,939.5	1,842,315.2	900.00	14.00	0.00	0	0			
									point196	196	6,367,971.0	1,842,313.9	900.00	14.00	0.00	0	0			
									point197	197	6,367,969.0	1,842,275.8	900.00	14.00	0.00	0	0			
									point198	198	6,367,938.0	1,842,277.1	900.00	14.00	0.00	0	0			
									point199	199	6,367,939.5	1,842,315.2	900.00	14.00						
13925 Campo Road	W	0.00	99.99	0.00				0.00	point200	200	6,370,323.5	1,840,540.8	1,060.00	14.00	0.00	0	0			
									point201	201	6,370,370.0	1,840,534.2	1,060.00	14.00	0.00	0	0			
									point202	202	6,370,362.0	1,840,478.5	1,060.00	14.00	0.00	0	0			
									point203	203	6,370,316.0	1,840,485.0	1,060.00	14.00	0.00	0	0			
									point204	204	6,370,323.5	1,840,540.8	1,060.00	14.00						
13925 Campo Road B2	W	0.00	99.99	0.00				0.00	point205	205	6,370,337.5	1,840,462.0	1,060.00	14.00	0.00	0	0			
									point206	206	6,370,330.5	1,840,419.6	1,060.00	14.00	0.00	0	0			
									point207	207	6,370,358.0	1,840,414.9	1,060.00	14.00	0.00	0	0			
									point208	208	6,370,365.0	1,840,457.4	1,060.00	14.00	0.00	0	0			
									point209	209	6,370,337.5	1,840,462.0	1,060.00	14.00						
US Post Office	W	0.00	99.99	0.00				0.00	point210	210	6,370,485.0	1,840,193.9	1,039.00	14.00	0.00	0	0			
									point211	211	6,370,486.0	1,840,060.0	1,039.00	14.00	0.00	0	0			
									point212	212	6,370,421.0	1,840,059.5	1,039.00	14.00	0.00	0	0			
									point213	213	6,370,420.0	1,840,193.2	1,039.00	14.00	0.00	0	0			
									point214	214	6,370,485.0	1,840,193.9	1,039.00	14.00						
Office Commercial Bldg 2	W	0.00	99.99	0.00				0.00	point215	215	6,370,486.5	1,840,002.6	1,034.00	30.00	0.00	0	0			
									point216	216	6,370,536.5	1,840,001.5	1,034.00	30.00	0.00	0	0			
									point217	217	6,370,534.0	1,839,892.1	1,034.00	30.00	0.00	0	0			
									point218	218	6,370,484.0	1,839,893.2	1,034.00	30.00	0.00	0	0			
									point219	219	6,370,486.5	1,840,002.6	1,034.00	30.00						
Wharehouse/Polebarn	W	0.00	99.99	0.00				0.00	point220	220	6,370,736.0	1,840,219.4	1,031.00	20.00	0.00	0	0			
									point221	221	6,370,788.5	1,840,219.0	1,031.00	20.00	0.00	0	0			
									point222	222	6,370,788.0	1,840,120.6	1,031.00	20.00	0.00	0	0			
									point223	223	6,370,735.5	1,840,120.9	1,031.00	20.00	0.00	0	0			
									point224	224	6,370,736.0	1,840,219.4	1,031.00	20.00						
Jamul Feed and Supply Barn	W	0.00	99.99	0.00				0.00	point225	225	6,370,724.0	1,840,077.6	1,028.00	20.00	0.00	0	0			
									point226	226	6,370,788.0	1,840,078.6	1,028.00	20.00	0.00	0	0			
									point227	227	6,370,788.5	1,840,044.8	1,028.00	20.00	0.00	0	0			
									point228	228	6,370,724.5	1,840,043.9	1,028.00	20.00	0.00	0	0			
									point229	229	6,370,724.0	1,840,077.6	1,028.00	20.00						
Jamul Feed and Supply Store	W	0.00	99.99	0.00				0.00	point230	230	6,370,716.5	1,840,025.6	1,028.00	14.00	0.00	0	0			
									point231	231	6,370,751.0	1,840,027.6	1,028.00	14.00	0.00	0	0			
									point232	232	6,370,752.5	1,840,001.0	1,028.00	14.00	0.00	0	0			
									point233	233	6,370,718.0	1,839,999.0	1,028.00	14.00	0.00	0	0			
									point234	234	6,370,716.5	1,840,025.6	1,028.00	14.00						

LDN			9 August 2014	
Louden			TNM 2.5	
INPUT: TERRAIN LINES				
PROJECT/CONTRACT:	SR-94 Intersection Improvements			
RUN:	Existing Conditions			
Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
<< This table is empty >>				

ATTACHMENT 4

Future Alternative TNM Model Data Sheets

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Ldn Consulting 8 August 2014
Ldn Consulting TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: SR 94 - Jamul Reservation Access
RUN: Alternative 1 - 2035
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
R-1 - 13967 Highway 94	1	1	0.0	63.0	66	63.0	10	----	63.0	0.0	8	-8.0
R-2 - 13975 Highway 94	2	1	0.0	62.7	66	62.7	10	----	62.7	0.0	8	-8.0
R-3 - 14022 Hillside Dr	3	1	0.0	53.4	66	53.4	10	----	53.4	0.0	8	-8.0
R-4 - 14017 Hillside Dr	5	1	0.0	56.9	66	56.9	10	----	56.9	0.0	8	-8.0
R-5 - 14022 Highway 94 A	6	1	0.0	56.3	66	56.3	10	----	56.3	0.0	8	-8.0
R-6 - 14022 Highway 94 B	7	1	0.0	62.4	66	62.4	10	----	62.4	0.0	8	-8.0
R-7 - 14019 Highway 94	8	1	0.0	64.3	66	64.3	10	----	64.3	0.0	8	-8.0
R-8 - 14075 Short Ct	9	1	0.0	55.7	66	55.7	10	----	55.7	0.0	8	-8.0
R-9 - 14027 Hillsdie Dr	10	1	0.0	55.9	66	55.9	10	----	55.9	0.0	8	-8.0
R-10 - 14024 Highway 94	11	1	0.0	56.8	66	56.8	10	----	56.8	0.0	8	-8.0
R-11 - 14023 Campo Dr	12	1	0.0	56.1	66	56.1	10	----	56.1	0.0	8	-8.0
R-12 - 14043 Highway 94	14	1	0.0	51.3	66	51.3	10	----	51.3	0.0	8	-8.0
R-13 - 14051 Campo Rd	15	1	0.0	57.6	66	57.6	10	----	57.6	0.0	8	-8.0
R-14 - 14061 Campo Rd	16	1	0.0	43.6	66	43.6	10	----	43.6	0.0	8	-8.0
R-15 - 14018 Las Palmas Rd	17	1	0.0	57.6	66	57.6	10	----	57.6	0.0	8	-8.0
R-16 - 14013 Las Palmas Rd	18	1	0.0	57.0	66	57.0	10	----	57.0	0.0	8	-8.0
R-17 - 14031 Las Palmas Rd	20	1	0.0	53.3	66	53.3	10	----	53.3	0.0	8	-8.0
R-18 - 14066 Highway 94	21	1	0.0	56.3	66	56.3	10	----	56.3	0.0	8	-8.0
R-19 - 3023 Calle Mesquite	22	1	0.0	48.8	66	48.8	10	----	48.8	0.0	8	-8.0
R-20 - 3015 Calle Mesquite	23	1	0.0	50.3	66	50.3	10	----	50.3	0.0	8	-8.0
R-21 - 3007 Calle Mesquite	24	1	0.0	53.1	66	53.1	10	----	53.1	0.0	8	-8.0
R-22 - 14024 Peaceful Valley Ranch Rd	26	1	0.0	61.1	66	61.1	10	----	61.1	0.0	8	-8.0
R-23 - 14102 Peaceful Valley Ranch Rd	27	1	0.0	43.7	66	43.7	10	----	43.7	0.0	8	-8.0
R-24 - 44114 Campo Rd	28	1	0.0	47.7	66	47.7	10	----	47.7	0.0	8	-8.0

R-25 - Jamul Reservation	30	1	0.0	47.2	66	47.2	10	----	47.2	0.0	8	-8.0
ST-1 - APN: 597-04-126	32	1	0.0	59.0	66	59.0	10	----	59.0	0.0	8	-8.0
ST-2 - 14020 Melody Rd	34	1	0.0	56.2	66	56.2	10	----	56.2	0.0	8	-8.0
ST-3 - 14024 Peaceful Valley Ranch Rd	37	1	0.0	61.7	66	61.7	10	----	61.7	0.0	8	-8.0

Dwelling Units	**# DUs**	**Noise Reduction**		
		Min	**Avg**	**Max**
		dB	**dB**	**dB**
All Selected	28	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

Ldn Consulting 8 August 2014
Ldn Consulting TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: SR 94 - Jamul Reservation Access
RUN: Alternative 1 - 2035

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway Name	Width	Points Name	No.	Coordinates (pavement) X	Y	Z	Flow Control Control Device	Speed Constraint	Percent Vehicles Affected	Segment Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
SR-94 SB North of Melody Rd	12.0	point1	1	6,370,642.0	1,839,918.6	1,027.00				Average	
		point2	2	6,370,640.5	1,839,429.4	1,020.00				Average	
		point3	3	6,370,637.0	1,838,936.0	1,015.00					
SR-94 NB South of Melody Rd	12.0	point102	102	6,373,435.0	1,834,286.5	815.00				Average	
		point101	101	6,373,393.0	1,834,336.6	816.00				Average	
		point100	100	6,373,360.5	1,834,376.0	817.00				Average	
		point99	99	6,373,329.5	1,834,414.2	818.00				Average	
		point98	98	6,373,299.5	1,834,450.6	819.00				Average	
		point97	97	6,373,237.0	1,834,526.2	821.00				Average	
		point96	96	6,373,143.5	1,834,639.9	824.00					
Melody Rd WB West of SR-94	12.0	point103	103	6,370,713.5	1,837,629.6	955.00	Signal	0.00	100	Average	
		point104	104	6,370,614.5	1,837,615.9	955.00				Average	
		point105	105	6,370,526.5	1,837,608.6	955.00				Average	
		point106	106	6,370,450.5	1,837,603.5	960.00				Average	
		point107	107	6,370,352.5	1,837,598.1	970.00				Average	
		point108	108	6,370,258.5	1,837,589.4	980.00				Average	
		point109	109	6,370,169.5	1,837,581.9	988.00				Average	
		point110	110	6,370,112.0	1,837,577.0	991.00				Average	
		point111	111	6,370,049.5	1,837,572.1	992.00				Average	
		point112	112	6,369,868.5	1,837,560.9	993.00				Average	
		point113	113	6,369,709.0	1,837,556.1	994.00				Average	
		point114	114	6,369,635.0	1,837,551.6	995.00				Average	
		point115	115	6,369,568.5	1,837,545.9	996.00				Average	
		point116	116	6,369,240.5	1,837,518.1	1,009.00				Average	
		point117	117	6,369,042.0	1,837,501.6	1,021.00				Average	

		point118	118	6,368,978.0	1,837,498.5	1,025.00				Average	
		point119	119	6,368,756.5	1,837,492.1	1,036.00				Average	
		point120	120	6,368,609.0	1,837,490.0	1,040.00				Average	
		point121	121	6,368,532.5	1,837,488.6	1,041.00					
Melody Rd EB West of SR-94	12.0	point140	140	6,368,533.0	1,837,476.6	1,041.00				Average	
		point139	139	6,368,609.0	1,837,478.0	1,040.00				Average	
		point138	138	6,368,757.0	1,837,480.1	1,036.00				Average	
		point137	137	6,368,978.5	1,837,486.5	1,025.00				Average	
		point136	136	6,369,042.5	1,837,489.6	1,021.00				Average	
		point135	135	6,369,241.5	1,837,506.1	1,009.00				Average	
		point134	134	6,369,569.5	1,837,534.0	996.00				Average	
		point133	133	6,369,636.0	1,837,539.6	995.00				Average	
		point132	132	6,369,709.5	1,837,544.1	994.00				Average	
		point131	131	6,369,869.0	1,837,548.9	993.00				Average	
		point130	130	6,370,050.0	1,837,560.1	992.00				Average	
		point129	129	6,370,113.0	1,837,565.0	991.00				Average	
		point128	128	6,370,170.5	1,837,569.9	988.00				Average	
		point127	127	6,370,259.5	1,837,577.4	980.00				Average	
		point126	126	6,370,353.0	1,837,586.1	970.00				Average	
		point125	125	6,370,451.5	1,837,591.5	960.00				Average	
		point124	124	6,370,527.5	1,837,596.8	955.00				Average	
		point123	123	6,370,615.5	1,837,603.9	955.00				Average	
		point122	122	6,370,716.0	1,837,613.6	955.00					
Melody Rd WB East of SR-94	12.0	point141	141	6,371,648.0	1,836,977.9	946.00	Stop	0.00	100	Average	
		point142	142	6,371,580.5	1,837,154.1	950.00				Average	
		point143	143	6,371,548.5	1,837,238.9	955.00				Average	
		point144	144	6,371,536.5	1,837,264.2	957.00				Average	
		point145	145	6,371,514.0	1,837,298.9	960.00				Average	
		point146	146	6,371,465.0	1,837,353.6	965.00				Average	
		point147	147	6,371,396.0	1,837,424.4	970.00				Average	
		point148	148	6,371,368.0	1,837,454.0	971.00				Average	
		point149	149	6,371,310.0	1,837,506.8	971.50				Average	
		point150	150	6,371,245.5	1,837,551.4	970.00				Average	
		point151	151	6,371,176.0	1,837,586.4	970.50				Average	
		point152	152	6,371,095.5	1,837,611.5	970.70				Average	
		point153	153	6,371,002.5	1,837,632.8	970.00				Average	
		point154	154	6,370,945.0	1,837,633.0	968.00				Average	
		point155	155	6,370,889.0	1,837,629.1	965.00				Average	
		point156	156	6,370,803.0	1,837,627.0	960.00				Average	

		point157	157	6,370,748.5	1,837,632.6	955.00					
Melody Rd EB East of SR-94	12.0	point174	174	6,370,751.5	1,837,619.6	955.00	Signal	0.00	100	Average	
		point173	173	6,370,804.0	1,837,615.0	960.00				Average	
		point172	172	6,370,890.0	1,837,617.1	965.00				Average	
		point171	171	6,370,945.5	1,837,621.0	968.00				Average	
		point170	170	6,371,001.0	1,837,620.8	970.00				Average	
		point169	169	6,371,092.5	1,837,599.9	970.70				Average	
		point168	168	6,371,171.5	1,837,575.1	970.50				Average	
		point167	167	6,371,239.5	1,837,541.0	970.00				Average	
		point166	166	6,371,302.5	1,837,497.2	971.50				Average	
		point165	165	6,371,359.5	1,837,445.4	971.00				Average	
		point164	164	6,371,387.0	1,837,416.0	970.00				Average	
		point163	163	6,371,456.0	1,837,345.4	965.00				Average	
		point162	162	6,371,504.5	1,837,291.6	960.00				Average	
		point161	161	6,371,526.0	1,837,258.4	957.00				Average	
		point160	160	6,371,537.5	1,837,234.2	955.00				Average	
		point159	159	6,371,569.5	1,837,149.9	950.00				Average	
		point158	158	6,371,637.0	1,836,973.6	946.00					
Peacful Valley WB East of SR-94	12.0	point189	189	6,371,496.0	1,836,624.0	928.00				Average	
		point188	188	6,371,512.0	1,836,645.0	930.00				Average	
		point187	187	6,371,525.5	1,836,667.9	930.00				Average	
		point186	186	6,371,531.5	1,836,687.1	932.00				Average	
		point185	185	6,371,534.5	1,836,706.9	933.40				Average	
		point184	184	6,371,546.0	1,836,774.6	935.00				Average	
		point183	183	6,371,557.0	1,836,839.8	940.00				Average	
		point182	182	6,371,576.5	1,836,885.5	944.00				Average	
		point181	181	6,371,598.0	1,836,914.1	945.00				Average	
		point180	180	6,371,619.5	1,836,938.6	946.00				Average	
		point179	179	6,371,663.5	1,836,970.0	946.00				Average	
		point178	178	6,371,681.0	1,836,977.4	945.00				Average	
		point177	177	6,371,744.5	1,836,983.8	940.00				Average	
		point176	176	6,371,821.5	1,836,989.4	935.00				Average	
		point175	175	6,371,891.5	1,836,985.2	930.00					
Peacful Valley EB East of SR-94	12.0	point191	191	6,371,891.0	1,836,973.2	930.00				Average	
		point192	192	6,371,821.5	1,836,977.4	935.00				Average	
		point193	193	6,371,745.5	1,836,971.9	940.00				Average	
		point194	194	6,371,684.0	1,836,965.6	945.00				Average	
		point195	195	6,371,669.5	1,836,959.5	946.00				Average	
		point196	196	6,371,627.5	1,836,929.6	946.00				Average	

		point197	197	6,371,607.5	1,836,906.5	945.00				Average	
		point198	198	6,371,587.0	1,836,879.4	944.00				Average	
		point199	199	6,371,569.0	1,836,836.4	940.00				Average	
		point200	200	6,371,558.0	1,836,772.6	935.00				Average	
		point201	201	6,371,546.5	1,836,705.0	933.40				Average	
		point202	202	6,371,543.5	1,836,684.5	932.00				Average	
		point203	203	6,371,536.5	1,836,662.9	930.00				Average	
		point204	204	6,371,522.0	1,836,638.2	930.00				Average	
		point205	205	6,371,505.5	1,836,616.8	928.00					
Alt_1_SB_Lane	12.0	point207	207	6,370,637.0	1,838,936.0	1,015.00				Average	
		point208	208	6,370,634.0	1,838,613.4	986.00				Average	
		point209	209	6,370,633.0	1,838,113.1	978.50				Average	
		point210	210	6,370,653.5	1,837,913.5	972.00				Average	
		point211	211	6,370,722.5	1,837,621.0	955.00					
Alt_1_NB_Lane	12.0	point230	230	6,370,734.0	1,837,624.8	955.00	Signal	0.00	100	Average	
		point229	229	6,370,665.5	1,837,915.5	972.00				Average	
		point228	228	6,370,645.0	1,838,113.8	978.50				Average	
		point227	227	6,370,646.0	1,838,613.4	986.00				Average	
		point226	226	6,370,649.0	1,838,935.9	1,015.00					
SR-94 NB North of Melody Rd-2	12.0	point245	245	6,370,649.0	1,838,935.9	1,015.00				Average	
		point15	15	6,370,652.5	1,839,429.2	1,020.00				Average	
		point14	14	6,370,654.0	1,839,918.6	1,027.00					
SR-94 SB South of Melody Rd-2	12.0	point247	247	6,373,134.0	1,834,632.2	824.00				Average	
		point59	59	6,373,227.5	1,834,518.6	821.00				Average	
		point60	60	6,373,290.0	1,834,443.0	819.00				Average	
		point61	61	6,373,320.0	1,834,406.6	818.00				Average	
		point62	62	6,373,351.5	1,834,368.5	817.00				Average	
		point63	63	6,373,383.5	1,834,329.0	816.00				Average	
		point64	64	6,373,426.0	1,834,278.8	815.00					
Alt_1_NB_Lane-2	12.0	point244	244	6,373,143.5	1,834,639.9	824.00				Average	
		point243	243	6,372,910.0	1,834,923.9	831.00				Average	
		point242	242	6,372,597.0	1,835,313.6	848.00				Average	
		point241	241	6,372,297.5	1,835,713.8	868.00				Average	
		point240	240	6,372,121.0	1,835,956.5	883.00				Average	
		point239	239	6,372,000.5	1,836,116.4	891.00				Average	
		point238	238	6,371,869.0	1,836,267.5	901.00					
Alt_1_SB_Lane-2	12.0	point250	250	6,370,722.5	1,837,621.0	955.00	Signal	0.00	100	Average	
		point212	212	6,370,837.0	1,837,343.1	947.00				Average	
		point213	213	6,370,937.0	1,837,169.2	941.00				Average	

LDN
Louden

9 August 2014
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: SR-94 Intersection Improvements
RUN: 2015 Build
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
R-26	1	1	0.0	63.1	66	63.1	10	----	63.1	0.0	8	-8.0
R-27	4	1	0.0	72.8	72	72.8	10	Snd Lvl	72.8	0.0	8	-8.0
R-28	6	1	0.0	69.4	66	69.4	10	Snd Lvl	69.4	0.0	8	-8.0
R-29	7	1	0.0	67.2	66	67.2	10	Snd Lvl	67.2	0.0	8	-8.0
R-30	8	1	0.0	75.8	66	75.8	10	Snd Lvl	75.8	0.0	8	-8.0
R-31	9	1	0.0	75.2	66	75.2	10	Snd Lvl	75.2	0.0	8	-8.0
R-32	10	1	0.0	71.1	66	71.1	10	Snd Lvl	71.1	0.0	8	-8.0
R-33	11	1	0.0	71.6	66	71.6	10	Snd Lvl	71.6	0.0	8	-8.0
R-34	12	1	0.0	69.4	66	69.4	10	Snd Lvl	69.4	0.0	8	-8.0
R-35	13	1	0.0	58.7	66	58.7	10	----	58.7	0.0	8	-8.0
R-36	14	1	0.0	57.5	66	57.5	10	----	57.5	0.0	8	-8.0
R-37	15	1	0.0	56.1	66	56.1	10	----	56.1	0.0	8	-8.0
R-38	19	1	0.0	52.4	66	52.4	10	----	52.4	0.0	8	-8.0
R-39	22	1	0.0	63.1	66	63.1	10	----	63.1	0.0	8	-8.0
R-40	23	1	0.0	62.2	66	62.2	10	----	62.2	0.0	8	-8.0
R-41	24	1	0.0	61.7	66	61.7	10	----	61.7	0.0	8	-8.0
R-42	26	1	0.0	72.4	66	72.4	10	Snd Lvl	72.4	0.0	8	-8.0
R-43	27	1	0.0	58.1	66	58.1	10	----	58.1	0.0	8	-8.0
R-44	28	1	0.0	70.7	66	70.7	10	Snd Lvl	70.7	0.0	8	-8.0
R-45	29	1	0.0	71.9	66	71.9	10	Snd Lvl	71.9	0.0	8	-8.0
R-46	30	1	0.0	53.7	66	53.7	10	----	53.7	0.0	8	-8.0
R-47	31	1	0.0	72.9	66	72.9	10	Snd Lvl	72.9	0.0	8	-8.0
R-48	32	1	0.0	68.6	66	68.6	10	Snd Lvl	68.6	0.0	8	-8.0
R-49	33	1	0.0	63.0	66	63.0	10	----	63.0	0.0	8	-8.0

R-50	34	1	0.0	52.5	66	52.5	10	----	52.5	0.0	8	-8.0
R-51	35	1	0.0	59.2	66	59.2	10	----	59.2	0.0	8	-8.0
R-52	36	1	0.0	39.0	66	39.0	10	----	39.0	0.0	8	-8.0
R-53	38	1	0.0	71.3	66	71.3	10	Snd Lvl	71.3	0.0	8	-8.0
R-54	40	1	0.0	59.8	66	59.8	10	----	59.8	0.0	8	-8.0
R-55	41	1	0.0	62.0	66	62.0	10	----	62.0	0.0	8	-8.0
R-56	42	1	0.0	57.3	66	57.3	10	----	57.3	0.0	8	-8.0
R-57	44	1	0.0	51.7	66	51.7	10	----	51.7	0.0	8	-8.0
R-58	45	1	0.0	61.6	66	61.6	10	----	61.6	0.0	8	-8.0
R-59	46	1	0.0	42.8	66	42.8	10	----	42.8	0.0	8	-8.0
R-60	47	1	0.0	67.1	66	67.1	10	Snd Lvl	67.1	0.0	8	-8.0

Dwelling Units	**# DUs**	**Noise Reduction**		
		Min	**Avg**	**Max**
		dB	**dB**	**dB**
All Selected	35	0.0	0.0	0.0
All Impacted	15	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

LDN 9 August 2014
Louden TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: SR-94 Intersection Improvements
RUN: 2015 Build

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway Name	Width	Points Name	No.	Coordinates (pavement) X	Y	Z	Flow Control Control Device	Speed Constraint	Percent Vehicles Affected	Segment Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
SR-94-EB Lane 1	18.0	point17	17	6,347,146.5	1,849,445.9	398.50				Average	
		point16	16	6,347,875.0	1,849,512.1	376.50				Average	
		point15	15	6,348,242.0	1,849,549.5	363.40				Average	
		point14	14	6,348,472.5	1,849,562.1	356.00				Average	
		point13	13	6,348,734.5	1,849,562.8	351.50					
SR-94-EB Lane 2	18.0	point26	26	6,347,141.0	1,849,433.9	398.50				Average	
		point25	25	6,347,772.5	1,849,492.0	376.50				Average	
		point24	24	6,348,248.0	1,849,533.9	363.40				Average	
		point23	23	6,348,411.5	1,849,544.2	356.00				Average	
		point22	22	6,348,758.5	1,849,545.2	351.50					
Jamacha Rd/SR-54-WB Lane 2	18.0	point37	37	6,349,150.5	1,849,665.1	350.00				Average	
		point36	36	6,349,043.5	1,849,637.1	350.50				Average	
		point35	35	6,348,976.5	1,849,628.2	351.00				Average	
		point34	34	6,348,717.5	1,849,624.9	351.30					
Jamacha Rd/SR-54-WB Lane 1	18.0	point48	48	6,349,153.0	1,849,650.9	350.00				Average	
		point47	47	6,349,081.5	1,849,629.1	350.50				Average	
		point46	46	6,348,978.0	1,849,612.2	351.00				Average	
		point45	45	6,348,746.5	1,849,608.1	351.30					
SR-94-LTLane	12.0	point58	58	6,348,143.0	1,849,553.1	363.40				Average	
		point57	57	6,348,223.5	1,849,562.5	356.00				Average	
		point56	56	6,348,270.0	1,849,567.2	354.00				Average	
		point55	55	6,348,356.0	1,849,571.8	353.00				Average	
		point54	54	6,348,672.5	1,849,576.8	351.50					
Campo Road\SR-94 - SB	24.0	point67	67	6,348,719.5	1,849,517.6	351.50	Signal	0.00	100	Average	
		point66	66	6,348,749.5	1,849,418.4	347.00				Average	

		point65	65	6,348,800.5	1,849,291.8	345.00				Average	
		point64	64	6,349,108.0	1,848,529.8	333.00				Average	
		point63	63	6,349,138.0	1,848,456.6	332.00				Average	
		point62	62	6,349,169.5	1,848,361.2	330.00				Average	
		point61	61	6,349,192.0	1,848,258.1	329.00				Average	
		point60	60	6,349,204.5	1,848,159.5	327.00				Average	
		point59	59	6,349,207.5	1,848,099.8	326.00					
Campo Road\SR-94 - NB LT Lane	24.0	point71	71	6,348,910.5	1,849,109.2	346.00				Average	
		point70	70	6,348,845.0	1,849,262.4	348.00				Average	
		point69	69	6,348,776.0	1,849,432.5	350.00				Average	
		point68	68	6,348,755.0	1,849,515.5	351.50					
Roadway10	24.0	point82	82	6,349,247.5	1,848,103.6	327.00				Average	
		point81	81	6,349,239.0	1,848,224.1	329.00				Average	
		point80	80	6,349,229.0	1,848,293.2	331.00				Average	
		point79	79	6,349,210.0	1,848,385.2	334.00				Average	
		point78	78	6,349,175.5	1,848,483.4	336.00				Average	
		point77	77	6,349,115.5	1,848,633.1	338.00				Average	
		point76	76	6,349,071.5	1,848,735.5	342.00				Average	
		point75	75	6,348,906.5	1,849,178.0	346.00				Average	
		point74	74	6,348,826.0	1,849,372.4	348.00				Average	
		point73	73	6,348,789.0	1,849,475.0	350.00				Average	
		point72	72	6,348,776.5	1,849,519.4	351.50					
Campo Rd/SR-94 WB - E of Steele Cnyn	12.0	point103	103	6,360,410.0	1,845,407.9	590.00				Average	
		point102	102	6,360,223.5	1,845,461.4	585.00				Average	
		point101	101	6,360,114.5	1,845,486.0	579.60				Average	
		point100	100	6,360,025.0	1,845,503.0	577.50				Average	
		point99	99	6,359,932.5	1,845,516.9	578.50				Average	
		point98	98	6,359,856.0	1,845,520.8	578.00				Average	
		point97	97	6,359,739.5	1,845,520.0	577.00				Average	
		point96	96	6,359,635.5	1,845,502.0	576.00				Average	
		point95	95	6,359,567.5	1,845,485.0	574.50				Average	
		point94	94	6,359,509.0	1,845,466.5	573.00				Average	
		point363	363	6,359,263.0	1,845,372.8	568.50				Average	
		point93	93	6,359,017.0	1,845,279.0	564.00				Average	
		point92	92	6,358,909.0	1,845,217.9	562.00					
Campo Rd/SR-94 EB - W of Steele Cnyn	12.0	point126	126	6,357,546.0	1,844,386.6	523.40				Average	
		point125	125	6,357,809.5	1,844,433.2	530.10				Average	
		point124	124	6,357,949.5	1,844,473.5	534.50				Average	
		point123	123	6,358,061.5	1,844,520.8	538.50				Average	

		point122	122	6,358,153.0	1,844,568.2	543.00				Average	
		point121	121	6,358,245.0	1,844,626.6	548.00				Average	
		point120	120	6,358,372.5	1,844,730.4	553.20				Average	
		point360	360	6,358,595.0	1,844,924.0	555.85				Average	
		point119	119	6,358,818.0	1,845,117.6	558.50				Average	
		point118	118	6,358,915.0	1,845,189.5	560.00					
Steele Cnyn NB	12.0	point130	130	6,358,909.0	1,845,245.8	562.00	Signal	0.00	100	Average	
		point129	129	6,358,877.5	1,845,298.2	566.00				Average	
		point128	128	6,358,867.5	1,845,330.0	567.00				Average	
		point127	127	6,358,845.5	1,845,559.2	580.00					
Steele Cnyn SB	12.0	point135	135	6,358,826.0	1,845,556.2	580.00				Average	
		point134	134	6,358,840.5	1,845,396.2	570.50				Average	
		point133	133	6,358,845.5	1,845,332.1	567.60				Average	
		point132	132	6,358,865.5	1,845,257.5	564.30				Average	
		point131	131	6,358,870.5	1,845,221.2	562.00					
Campo Rd/SR-94 WB - @ Lyons Valley	12.0	point140	140	6,368,011.5	1,842,162.8	905.00				Average	
		point139	139	6,367,866.5	1,842,285.0	897.00				Average	
		point138	138	6,367,774.5	1,842,372.1	895.00				Average	
		point137	137	6,367,730.5	1,842,419.2	893.00				Average	
		point136	136	6,367,675.5	1,842,485.4	892.00					
Campo Rd/SR-94 EB - @ Lyons Valley	12.0	point144	144	6,367,660.5	1,842,468.5	892.00				Average	
		point143	143	6,367,777.5	1,842,341.4	895.00				Average	
		point142	142	6,367,852.0	1,842,271.5	897.00				Average	
		point141	141	6,367,997.5	1,842,148.2	905.00					
Roadway17	12.0	point147	147	6,367,751.5	1,842,214.9	895.00				Average	
		point146	146	6,367,774.0	1,842,249.8	893.00				Average	
		point145	145	6,367,809.0	1,842,279.9	891.00					
Lyons Valley Driveway SB	12.0	point148	148	6,367,792.5	1,842,295.1	895.00				Average	
		point149	149	6,367,736.0	1,842,226.5	891.00					
Lyons Valley Rd SB	12.0	point153	153	6,368,017.5	1,842,389.2	903.00				Average	
		point152	152	6,367,942.5	1,842,382.5	901.00				Average	
		point151	151	6,367,904.0	1,842,374.2	899.00				Average	
		point150	150	6,367,830.0	1,842,337.4	895.00					
Roadway20	12.0	point158	158	6,367,857.5	1,842,308.1	895.00	Stop	0.00	100	Average	
		point157	157	6,367,878.0	1,842,337.9	897.00				Average	
		point156	156	6,367,908.0	1,842,357.8	899.00				Average	
		point155	155	6,367,948.0	1,842,367.8	901.00				Average	
		point154	154	6,368,026.0	1,842,375.0	903.00					
Maxfiled Rd WB	12.0	point198	198	6,370,622.5	1,840,239.2	1,037.00				Average	

		point199	199	6,370,544.0	1,840,228.9	1,037.00					
Maxfiled Rd EB	12.0	point200	200	6,370,544.0	1,840,217.4	1,037.00				Average	
		point201	201	6,370,622.5	1,840,217.8	1,037.00					
Jamacha Rd/SR-54-EB Lane 2	18.0	point202	202	6,348,758.5	1,849,545.2	351.50	Signal	0.00	100	Average	
		point21	21	6,348,900.5	1,849,544.9	352.00				Average	
		point20	20	6,349,007.5	1,849,546.1	352.00				Average	
		point19	19	6,349,084.0	1,849,559.2	352.50				Average	
		point18	18	6,349,162.5	1,849,581.1	353.00					
Jamacha Rd/SR-54-EB Lane 1	18.0	point203	203	6,348,734.5	1,849,562.8	351.50	Signal	0.00	100	Average	
		point12	12	6,348,963.5	1,849,559.1	352.00				Average	
		point11	11	6,349,052.0	1,849,570.1	352.00				Average	
		point10	10	6,349,117.5	1,849,585.4	352.50				Average	
		point9	9	6,349,160.0	1,849,600.2	353.00					
Campo Rd/SR-94-WB Lane 1	18.0	point204	204	6,348,746.5	1,849,608.1	351.30	Signal	0.00	100	Average	
		point44	44	6,348,456.5	1,849,607.1	356.00				Average	
		point43	43	6,348,329.0	1,849,605.5	340.00				Average	
		point42	42	6,348,187.0	1,849,592.0	365.00				Average	
		point41	41	6,347,899.5	1,849,555.5	372.50				Average	
		point40	40	6,347,565.0	1,849,522.4	381.60				Average	
		point39	39	6,347,243.0	1,849,493.0	393.60				Average	
		point38	38	6,347,141.5	1,849,487.4	397.40					
Campo Road/SR-94-WB Lane 2	18.0	point205	205	6,348,717.5	1,849,624.9	351.30	Signal	0.00	100	Average	
		point33	33	6,348,384.5	1,849,618.6	359.00				Average	
		point32	32	6,348,284.5	1,849,612.9	362.50				Average	
		point31	31	6,348,142.0	1,849,597.2	366.50				Average	
		point30	30	6,348,000.0	1,849,579.1	370.00				Average	
		point29	29	6,347,866.0	1,849,565.5	373.00				Average	
		point28	28	6,347,324.0	1,849,513.1	390.70				Average	
		point27	27	6,347,141.5	1,849,498.9	397.40					
Campo Rd/SR-94 WB - W of Steele Cnyn	12.0	point207	207	6,358,909.0	1,845,217.9	562.00	Signal	0.00	100	Average	
		point91	91	6,358,809.0	1,845,144.4	558.50				Average	
		point361	361	6,358,546.0	1,844,917.5	555.85				Average	
		point90	90	6,358,282.5	1,844,690.5	553.20				Average	
		point89	89	6,358,223.5	1,844,645.4	548.00				Average	
		point88	88	6,358,144.0	1,844,596.8	546.00				Average	
		point87	87	6,358,055.5	1,844,546.4	543.00				Average	
		point86	86	6,357,978.0	1,844,511.0	538.50				Average	
		point85	85	6,357,908.0	1,844,486.6	534.50				Average	
		point84	84	6,357,795.0	1,844,455.8	530.10				Average	

		point83	83	6,357,546.0	1,844,412.4	523.40					
Jamacha Blvd SB	24.0	point208	208	6,345,890.0	1,849,708.0	439.00	Signal	0.00	100	Average	
		point209	209	6,345,696.0	1,849,606.0	441.00				Average	
		point210	210	6,345,652.0	1,849,583.0	441.20				Average	
		point211	211	6,345,562.5	1,849,546.0	444.20					
Jamacha Blvd NB	24.0	point214	214	6,345,569.5	1,849,506.5	444.50				Average	
		point213	213	6,345,698.0	1,849,557.8	441.20				Average	
		point212	212	6,345,938.0	1,849,684.5	439.00					
Jamacha Blvd NB - LT Lane	24.0	point215	215	6,345,709.0	1,849,581.2	439.00				Average	
		point216	216	6,345,927.5	1,849,693.6	441.00					
Skyline Driveway Egress	24.0	point222	222	6,346,244.5	1,849,878.1	456.00				Average	
		point221	221	6,346,212.5	1,849,869.4	455.00				Average	
		point220	220	6,346,163.5	1,849,860.8	445.00				Average	
		point219	219	6,346,123.5	1,849,851.6	439.00				Average	
		point218	218	6,346,090.5	1,849,836.4	435.00				Average	
		point217	217	6,345,989.5	1,849,759.6	437.30					
Skyline Driveway Ingress	24.0	point228	228	6,346,021.0	1,849,746.6	437.30				Average	
		point227	227	6,346,087.0	1,849,805.6	439.00				Average	
		point226	226	6,346,124.5	1,849,825.6	442.00				Average	
		point225	225	6,346,176.0	1,849,837.2	445.00				Average	
		point224	224	6,346,233.5	1,849,850.8	455.00				Average	
		point223	223	6,346,262.0	1,849,859.9	456.00					
Campo Road EB - E of Jamacha Blvd	36.0	point229	229	6,346,512.0	1,849,553.4	418.00				Average	
		point230	230	6,346,408.5	1,849,580.4	420.00				Average	
		point231	231	6,346,335.5	1,849,604.6	425.00				Average	
		point232	232	6,346,225.5	1,849,643.8	430.00				Average	
		point233	233	6,346,094.5	1,849,693.2	432.50				Average	
		point234	234	6,345,982.5	1,849,743.5	437.30					
Campo Road WB L1- W of Jamacha Blvd	24.0	point254	254	6,345,373.0	1,850,102.9	448.00				Average	
		point253	253	6,345,441.5	1,850,043.0	447.00				Average	
		point252	252	6,345,509.0	1,849,987.5	446.50				Average	
		point250	250	6,345,669.0	1,849,861.6	446.00				Average	
		point249	249	6,345,775.0	1,849,795.6	443.50				Average	
		point248	248	6,345,841.5	1,849,757.4	441.30				Average	
		point247	247	6,345,940.5	1,849,707.1	439.00					
Campo Road WB L2- W of Jamacha Blvd	12.0	point268	268	6,345,366.0	1,850,088.1	448.00				Average	
		point267	267	6,345,455.5	1,850,011.8	447.00				Average	
		point265	265	6,345,619.5	1,849,875.5	446.50				Average	
		point264	264	6,345,717.5	1,849,809.5	446.00				Average	

		point263	263	6,345,823.5	1,849,749.6	443.50				Average	
		point262	262	6,345,917.0	1,849,701.0	439.00					
Campo Road EB - W of Jamacha Blvd	36.0	point269	269	6,345,982.5	1,849,743.5	437.30				Average	
		point235	235	6,345,881.5	1,849,797.4	441.30				Average	
		point236	236	6,345,791.5	1,849,849.5	443.50				Average	
		point237	237	6,345,724.5	1,849,893.8	446.00				Average	
		point238	238	6,345,664.5	1,849,934.5	446.50				Average	
		point240	240	6,345,531.0	1,850,042.1	447.00				Average	
		point241	241	6,345,408.5	1,850,147.1	448.00					
Campo Road WB L1- E of Jamacha Blvd	24.0	point270	270	6,345,940.5	1,849,707.1	439.00				Average	
		point246	246	6,346,038.5	1,849,655.9	435.00				Average	
		point245	245	6,346,169.0	1,849,601.1	430.00				Average	
		point244	244	6,346,282.0	1,849,559.5	425.00				Average	
		point243	243	6,346,375.5	1,849,530.9	420.00				Average	
		point242	242	6,346,499.0	1,849,500.5	418.00					
Campo Road WB L2- E of Jamacha Blvd	12.0	point271	271	6,345,917.0	1,849,701.0	439.00				Average	
		point261	261	6,346,006.5	1,849,655.9	435.00				Average	
		point260	260	6,346,102.0	1,849,613.4	430.00				Average	
		point259	259	6,346,202.0	1,849,574.2	425.00				Average	
		point258	258	6,346,306.0	1,849,540.4	423.50				Average	
		point257	257	6,346,410.0	1,849,508.2	419.00				Average	
		point256	256	6,346,502.0	1,849,485.8	418.00					
SR-94-EB New OS RT Lane	12.0	point276	276	6,348,200.0	1,849,511.6	363.40				Average	
		point275	275	6,348,273.5	1,849,514.8	356.00				Average	
		point274	274	6,348,428.0	1,849,521.6	354.00				Average	
		point273	273	6,348,534.5	1,849,525.8	353.00				Average	
		point272	272	6,348,673.0	1,849,526.8	351.50					
SR-94-EB New IS RT Lane	12.0	point281	281	6,348,200.5	1,849,498.6	363.40				Average	
		point280	280	6,348,274.0	1,849,501.8	356.00				Average	
		point279	279	6,348,428.5	1,849,508.6	354.00				Average	
		point278	278	6,348,535.0	1,849,512.8	353.00				Average	
		point277	277	6,348,673.5	1,849,513.8	351.50					
Campo Rd EB-Wo/Steele CnynNew	12.0	point287	287	6,358,592.0	1,844,908.9	550.00				Average	
		point286	286	6,358,812.5	1,845,094.6	553.00				Average	
		point285	285	6,358,883.0	1,845,150.1	559.00				Average	
		point284	284	6,358,941.0	1,845,185.8	560.00					
Campo Rd WB-Eo/Steele CnynNew	12.0	point293	293	6,359,357.5	1,845,420.4	567.00				Average	
		point292	292	6,359,018.5	1,845,294.0	564.50				Average	
		point291	291	6,358,947.5	1,845,255.8	563.00				Average	

		point290	290	6,358,903.0	1,845,230.8	562.00					
SR-94 WB @ Maxfield	12.0	point311	311	6,369,576.5	1,841,092.2	1,016.00				Average	
		point310	310	6,369,900.5	1,841,051.4	1,026.50				Average	
		point309	309	6,369,983.0	1,841,035.4	1,030.00				Average	
		point308	308	6,370,057.5	1,841,014.2	1,035.00				Average	
		point307	307	6,370,143.5	1,840,978.5	1,037.00				Average	
		point306	306	6,370,211.5	1,840,944.9	1,041.00				Average	
		point305	305	6,370,281.5	1,840,899.8	1,044.00				Average	
		point304	304	6,370,348.0	1,840,845.0	1,045.00				Average	
		point303	303	6,370,415.0	1,840,780.6	1,046.00				Average	
		point302	302	6,370,461.5	1,840,725.2	1,047.00				Average	
		point301	301	6,370,507.5	1,840,655.1	1,047.50				Average	
		point300	300	6,370,554.0	1,840,571.8	1,048.00				Average	
		point299	299	6,370,585.0	1,840,498.0	1,047.00				Average	
		point298	298	6,370,600.5	1,840,446.0	1,045.00				Average	
		point297	297	6,370,608.5	1,840,406.5	1,043.00				Average	
		point296	296	6,370,623.5	1,840,330.4	1,040.00				Average	
		point295	295	6,370,629.5	1,840,232.4	1,037.00					
SR-94 EB @ Maxfield IN Lane	12.0	point332	332	6,370,654.0	1,839,938.9	1,028.00				Average	
		point331	331	6,370,653.0	1,840,229.8	1,037.00					
SR-94 EB @ Maxfield OS Lane	12.0	point350	350	6,370,652.0	1,840,296.9	1,040.00				Average	
		point349	349	6,370,649.0	1,840,342.2	1,043.00				Average	
		point348	348	6,370,629.0	1,840,423.8	1,045.00				Average	
		point346	346	6,370,587.5	1,840,554.1	1,047.00				Average	
		point345	345	6,370,564.5	1,840,601.6	1,048.00				Average	
		point344	344	6,370,538.0	1,840,651.4	1,047.50				Average	
		point343	343	6,370,495.0	1,840,717.8	1,047.00				Average	
		point341	341	6,370,419.0	1,840,809.6	1,046.00				Average	
		point340	340	6,370,360.5	1,840,864.1	1,045.00				Average	
		point339	339	6,370,309.5	1,840,906.2	1,044.00				Average	
		point338	338	6,370,235.5	1,840,954.8	1,041.00				Average	
		point337	337	6,370,171.5	1,840,990.1	1,037.00				Average	
		point335	335	6,370,057.0	1,841,036.8	1,035.00				Average	
		point334	334	6,369,981.5	1,841,056.2	1,030.00				Average	
		point333	333	6,369,897.0	1,841,069.5	1,026.50					
Campo Rd WB-Wo/Steele CnynNew	12.0	point351	351	6,358,903.0	1,845,230.8	562.00				Average	
		point289	289	6,358,849.0	1,845,192.6	559.00				Average	
		point288	288	6,358,636.0	1,845,007.9	549.50					
Campo Rd EB-Eo/Steele CnynNew	12.0	point352	352	6,358,941.0	1,845,185.8	560.00				Average	

		point283	283	6,359,032.0	1,845,238.8	561.50				Average	
		point282	282	6,359,355.5	1,845,363.4	567.00					
Campo Rd/SR-94 EB - E of Steele Cnyn	12.0	point206	206	6,358,915.0	1,845,189.5	560.00	Signal	0.00	100	Average	
		point117	117	6,358,979.0	1,845,226.2	561.00				Average	
		point353	353	6,359,149.0	1,845,299.1	564.00				Average	
		point362	362	6,359,345.0	1,845,373.0	567.00				Average	
		point115	115	6,359,541.0	1,845,446.8	570.00				Average	
		point114	114	6,359,637.5	1,845,473.9	573.00				Average	
		point113	113	6,359,681.5	1,845,483.2	574.50				Average	
		point112	112	6,359,756.5	1,845,492.6	576.00				Average	
		point111	111	6,359,819.0	1,845,495.0	577.00				Average	
		point110	110	6,359,882.5	1,845,494.0	578.00				Average	
		point109	109	6,359,945.0	1,845,488.4	578.50				Average	
		point108	108	6,360,019.5	1,845,478.4	577.50				Average	
		point107	107	6,360,153.5	1,845,452.2	579.60				Average	
		point106	106	6,360,261.5	1,845,430.1	585.00				Average	
		point105	105	6,360,359.5	1,845,404.8	590.00				Average	
		point104	104	6,360,408.0	1,845,389.6	590.00					
SR-94 EB @ Maxfield IN Lane-2	12.0	point358	358	6,370,653.0	1,840,229.8	1,037.00				Average	
		point330	330	6,370,647.0	1,840,287.9	1,040.00				Average	
		point329	329	6,370,640.0	1,840,337.0	1,043.00				Average	
		point328	328	6,370,620.0	1,840,418.5	1,045.00				Average	
		point326	326	6,370,578.5	1,840,549.0	1,047.00				Average	
		point325	325	6,370,555.5	1,840,596.4	1,048.00				Average	
		point324	324	6,370,529.0	1,840,646.1	1,047.50				Average	
		point323	323	6,370,486.0	1,840,712.5	1,047.00				Average	
		point321	321	6,370,410.0	1,840,804.5	1,046.00				Average	
		point320	320	6,370,351.5	1,840,858.9	1,045.00				Average	
		point319	319	6,370,300.5	1,840,901.0	1,044.00				Average	
		point318	318	6,370,226.5	1,840,949.5	1,041.00				Average	
		point317	317	6,370,162.5	1,840,984.9	1,037.00				Average	
		point315	315	6,370,047.5	1,841,031.5	1,035.00				Average	
		point314	314	6,369,972.0	1,841,051.0	1,030.00				Average	
		point313	313	6,369,888.0	1,841,064.4	1,026.50				Average	
		point312	312	6,369,578.0	1,841,106.2	1,016.00					
SR-94 WB @ Maxfield-2	12.0	point359	359	6,370,629.5	1,840,232.4	1,037.00				Average	
		point294	294	6,370,630.5	1,839,940.6	1,028.00					

LDN **9 August 2014**
Louden **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: **SR-94 Intersection Improvements**
RUN: **2015 Build**

Roadway Name	Points Name	No.	Segment Autos V veh/hr	Autos S mph	MTrucks V veh/hr	MTrucks S mph	HTrucks V veh/hr	HTrucks S mph	Buses V veh/hr	Buses S mph	Motorcycles V veh/hr	Motorcycles S mph
SR-94-EB Lane 1	point17	17	1437	55	68	55	48	55	0	0	0	0
	point16	16	1437	55	68	55	48	55	0	0	0	0
	point15	15	718	55	34	55	24	55	0	0	0	0
	point14	14	718	55	34	55	24	55	0	0	0	0
	point13	13										
SR-94-EB Lane 2	point26	26	1437	55	68	55	48	55	0	0	0	0
	point25	25	1437	55	68	55	48	55	0	0	0	0
	point24	24	718	55	34	55	24	55	0	0	0	0
	point23	23	718	55	34	55	24	55	0	0	0	0
	point22	22										
Jamacha Rd/SR-54-WB Lane 2	point37	37	1436	50	68	50	48	50	0	0	0	0
	point36	36	1436	50	68	50	48	50	0	0	0	0
	point35	35	1436	50	68	50	48	50	0	0	0	0
	point34	34										
Jamacha Rd/SR-54-WB Lane 1	point48	48	1436	50	68	50	48	50	0	0	0	0
	point47	47	1436	50	68	50	48	50	0	0	0	0
	point46	46	1436	50	68	50	48	50	0	0	0	0
	point45	45										
SR-94-LTLane	point58	58	0	0	0	0	0	0	0	0	0	0
	point57	57	0	0	0	0	0	0	0	0	0	0
	point56	56	0	0	0	0	0	0	0	0	0	0
	point55	55	0	0	0	0	0	0	0	0	0	0
	point54	54										

Campo Road\SR-94 - SB	point67	67	1496	40	71	40	50	40	0	0	0	0
	point66	66	1496	40	71	40	50	40	0	0	0	0
	point65	65	1496	40	71	40	50	40	0	0	0	0
	point64	64	1496	40	71	40	50	40	0	0	0	0
	point63	63	1496	40	71	40	50	40	0	0	0	0
	point62	62	1496	40	71	40	50	40	0	0	0	0
	point61	61	1496	40	71	40	50	40	0	0	0	0
	point60	60	1496	40	71	40	50	40	0	0	0	0
	point59	59										
Campo Road\SR-94 - NB LT Lane	point71	71	748	40	36	40	25	40	0	0	0	0
	point70	70	748	40	36	40	25	40	0	0	0	0
	point69	69	748	40	36	40	25	40	0	0	0	0
	point68	68										
Roadway10	point82	82	1496	40	71	40	50	40	0	0	0	0
	point81	81	1496	40	71	40	50	40	0	0	0	0
	point80	80	1496	40	71	40	50	40	0	0	0	0
	point79	79	1496	40	71	40	50	40	0	0	0	0
	point78	78	1496	40	71	40	50	40	0	0	0	0
	point77	77	1496	40	71	40	50	40	0	0	0	0
	point76	76	1496	40	71	40	50	40	0	0	0	0
	point75	75	748	40	36	40	25	40	0	0	0	0
	point74	74	748	40	36	40	25	40	0	0	0	0
	point73	73	748	40	36	40	25	40	0	0	0	0
	point72	72										
Campo Rd/SR-94 WB - E of Steele Cnyn	point103	103	1309	45	62	45	44	45	0	0	0	0
	point102	102	1309	45	62	45	44	45	0	0	0	0
	point101	101	1309	45	62	45	44	45	0	0	0	0
	point100	100	1309	45	62	45	44	45	0	0	0	0
	point99	99	1309	45	62	45	44	45	0	0	0	0
	point98	98	1309	45	62	45	44	45	0	0	0	0
	point97	97	1309	45	62	45	44	45	0	0	0	0
	point96	96	1309	45	62	45	44	45	0	0	0	0
	point95	95	1309	45	62	45	44	45	0	0	0	0
	point94	94	655	45	31	45	22	45	0	0	0	0
	point363	363	655	45	31	45	22	45	0	0	0	0
	point93	93	655	45	31	45	22	45	0	0	0	0

	point92	92										
Campo Rd/SR-94 EB - W of Steele Cnyn	point126	126	1426	45	68	45	48	45	0	0	0	0
	point125	125	1426	45	68	45	48	45	0	0	0	0
	point124	124	1426	45	68	45	48	45	0	0	0	0
	point123	123	1426	45	68	45	48	45	0	0	0	0
	point122	122	1426	45	68	45	48	45	0	0	0	0
	point121	121	1426	45	68	45	48	45	0	0	0	0
	point120	120	1426	45	68	45	48	45	0	0	0	0
	point360	360	713	45	34	45	24	45	0	0	0	0
	point119	119	713	45	34	45	24	45	0	0	0	0
	point118	118										
Steele Cnyn NB	point130	130	315	35	15	35	11	35	0	0	0	0
	point129	129	315	35	15	35	11	35	0	0	0	0
	point128	128	315	35	15	35	11	35	0	0	0	0
	point127	127										
Steele Cnyn SB	point135	135	315	35	15	35	11	35	0	0	0	0
	point134	134	315	35	15	35	11	35	0	0	0	0
	point133	133	315	35	15	35	11	35	0	0	0	0
	point132	132	315	35	15	35	11	35	0	0	0	0
	point131	131										
Campo Rd/SR-94 WB - @ Lyons Valley	point140	140	1126	45	53	45	38	45	0	0	0	0
	point139	139	1376	45	65	45	46	45	0	0	0	0
	point138	138	1376	45	65	45	46	45	0	0	0	0
	point137	137	1376	45	65	45	46	45	0	0	0	0
	point136	136										
Campo Rd/SR-94 EB - @ Lyons Valley	point144	144	1376	45	65	45	46	45	0	0	0	0
	point143	143	1376	45	65	45	46	45	0	0	0	0
	point142	142	1126	45	53	45	38	45	0	0	0	0
	point141	141										
Roadway17	point147	147	16	25	1	25	1	25	0	0	0	0
	point146	146	16	25	1	25	1	25	0	0	0	0
	point145	145										
Lyons Valley Driveway SB	point148	148	16	25	1	25	1	25	0	0	0	0
	point149	149										
Lyons Valley Rd SB	point153	153	315	40	15	40	11	40	0	0	0	0
	point152	152	315	40	15	40	11	40	0	0	0	0

	point151	151	315	40	15	40	11	40	0	0	0	0
	point150	150										
Roadway20	point158	158	315	40	15	40	11	40	0	0	0	0
	point157	157	315	40	15	40	11	40	0	0	0	0
	point156	156	315	40	15	40	11	40	0	0	0	0
	point155	155	315	40	15	40	11	40	0	0	0	0
	point154	154										
Maxfiled Rd WB	point198	198	67	25	4	25	2	25	0	0	0	0
	point199	199										
Maxfiled Rd EB	point200	200	67	25	4	25	2	25	0	0	0	0
	point201	201										
Jamacha Rd/SR-54-EB Lane 2	point202	202	1436	50	68	50	48	50	0	0	0	0
	point21	21	1436	50	68	50	48	50	0	0	0	0
	point20	20	1436	50	68	50	48	50	0	0	0	0
	point19	19	1436	50	68	50	48	50	0	0	0	0
	point18	18										
Jamacha Rd/SR-54-EB Lane 1	point203	203	1436	50	68	50	48	50	0	0	0	0
	point12	12	1436	50	68	50	48	20	0	0	0	0
	point11	11	1436	50	68	50	48	50	0	0	0	0
	point10	10	1436	50	68	50	48	50	0	0	0	0
	point9	9										
Campo Rd/SR-94-WB Lane 1	point204	204	1437	55	68	55	48	55	0	0	0	0
	point44	44	1437	55	68	55	48	55	0	0	0	0
	point43	43	1437	55	68	55	48	55	0	0	0	0
	point42	42	1437	55	68	55	48	55	0	0	0	0
	point41	41	1437	55	68	55	48	55	0	0	0	0
	point40	40	1437	55	68	55	48	55	0	0	0	0
	point39	39	1437	55	68	55	48	55	0	0	0	0
	point38	38										
Campo Road/SR-94-WB Lane 2	point205	205	1437	55	68	55	48	55	0	0	0	0
	point33	33	1437	55	68	55	48	55	0	0	0	0
	point32	32	1437	55	68	55	48	55	0	0	0	0
	point31	31	1437	55	68	55	48	55	0	0	0	0
	point30	30	1437	55	68	55	48	55	0	0	0	0
	point29	29	1437	55	68	55	48	55	0	0	0	0
	point28	28	1437	55	68	55	48	55	0	0	0	0

	point27	27										
Campo Rd/SR-94 WB - W of Steele Cnyn	point207	207	713	45	34	45	24	45	0	0	0	0
	point91	91	713	45	34	45	24	45	0	0	0	0
	point361	361	1426	45	68	45	48	45	0	0	0	0
	point90	90	1426	45	68	45	48	45	0	0	0	0
	point89	89	1426	45	68	45	48	45	0	0	0	0
	point88	88	1426	45	68	45	48	45	0	0	0	0
	point87	87	1426	45	68	45	48	45	0	0	0	0
	point86	86	1426	45	68	45	48	45	0	0	0	0
	point85	85	1426	45	68	45	48	45	0	0	0	0
	point84	84	1426	45	68	45	48	45	0	0	0	0
	point83	83										
Jamacha Blvd SB	point208	208	736	50	35	50	25	50	0	0	0	0
	point209	209	736	50	35	50	25	50	0	0	0	0
	point210	210	736	50	35	50	25	50	0	0	0	0
	point211	211										
Jamacha Blvd NB	point214	214	736	50	35	50	25	50	0	0	0	0
	point213	213	368	50	18	50	13	50	0	0	0	0
	point212	212										
Jamacha Blvd NB - LT Lane	point215	215	368	50	18	50	13	50	0	0	0	0
	point216	216										
Skyline Driveway Egress	point222	222	16	25	1	25	1	25	0	0	0	0
	point221	221	16	25	1	25	1	25	0	0	0	0
	point220	220	16	25	1	25	1	25	0	0	0	0
	point219	219	16	25	1	25	1	25	0	0	0	0
	point218	218	16	25	1	25	1	25	0	0	0	0
	point217	217										
Skyline Driveway Ingress	point228	228	16	25	1	25	1	25	0	0	0	0
	point227	227	16	25	1	25	1	25	0	0	0	0
	point226	226	16	25	1	25	1	25	0	0	0	0
	point225	225	16	25	1	25	1	25	0	0	0	0
	point224	224	16	25	1	25	1	25	0	0	0	0
	point223	223										
Campo Road EB - E of Jamacha Blvd	point229	229	2760	55	130	55	92	55	0	0	0	0
	point230	230	2760	55	130	55	92	55	0	0	0	0
	point231	231	2760	55	130	55	92	55	0	0	0	0

	point232	232	2760	55	130	55	92	55	0	0	0	0
	point233	233	2760	55	130	55	92	55	0	0	0	0
	point234	234										
Campo Road WB L1- W of Jamacha Blvd	point254	254	1181	55	56	55	40	55	0	0	0	0
	point253	253	1181	55	56	55	40	55	0	0	0	0
	point252	252	1181	55	56	55	40	55	0	0	0	0
	point250	250	1181	55	56	55	40	55	0	0	0	0
	point249	249	1181	55	56	55	40	55	0	0	0	0
	point248	248	1181	55	56	55	40	55	0	0	0	0
	point247	247										
Campo Road WB L2- W of Jamacha Blvd	point268	268	1181	55	56	55	40	55	0	0	0	0
	point267	267	1181	55	56	55	40	55	0	0	0	0
	point265	265	1181	55	56	55	40	55	0	0	0	0
	point264	264	1181	55	56	55	40	55	0	0	0	0
	point263	263	1181	55	56	55	40	55	0	0	0	0
	point262	262										
Campo Road EB - W of Jamacha Blvd	point269	269	2362	55	111	55	79	55	0	0	0	0
	point235	235	2362	55	111	55	79	55	0	0	0	0
	point236	236	2362	55	111	55	79	55	0	0	0	0
	point237	237	2362	55	111	55	79	55	0	0	0	0
	point238	238	2362	55	111	55	79	55	0	0	0	0
	point240	240	2362	55	111	55	79	55	0	0	0	0
	point241	241										
Campo Road WB L1- E of Jamacha Blvd	point270	270	1380	55	65	55	46	55	0	0	0	0
	point246	246	1380	55	65	55	46	55	0	0	0	0
	point245	245	1380	55	65	55	46	55	0	0	0	0
	point244	244	1380	55	65	55	46	55	0	0	0	0
	point243	243	1380	55	65	55	46	55	0	0	0	0
	point242	242										
Campo Road WB L2- E of Jamacha Blvd	point271	271	1380	55	65	55	46	55	0	0	0	0
	point261	261	1380	55	65	55	46	55	0	0	0	0
	point260	260	1380	55	65	55	46	55	0	0	0	0
	point259	259	1380	55	65	55	46	55	0	0	0	0
	point258	258	1380	55	65	55	46	55	0	0	0	0
	point257	257	1380	55	65	55	46	55	0	0	0	0
	point256	256										

SR-94-EB New OS RT Lane	point276	276	718	55	34	55	24	55	0	0	0	0
	point275	275	718	55	34	55	24	55	0	0	0	0
	point274	274	718	55	34	55	24	55	0	0	0	0
	point273	273	718	55	34	55	24	55	0	0	0	0
	point272	272										
SR-94-EB New IS RT Lane	point281	281	718	55	34	55	24	55	0	0	0	0
	point280	280	718	55	34	55	24	55	0	0	0	0
	point279	279	718	55	34	55	24	55	0	0	0	0
	point278	278	718	55	34	55	24	55	0	0	0	0
	point277	277										
Campo Rd EB-Wo/Steele CnynNew	point287	287	713	45	34	45	24	45	0	0	0	0
	point286	286	713	45	34	45	24	45	0	0	0	0
	point285	285	713	45	34	45	24	45	0	0	0	0
	point284	284										
Campo Rd WB-Eo/Steele CnynNew	point293	293	655	45	31	45	22	45	0	0	0	0
	point292	292	655	45	31	45	22	45	0	0	0	0
	point291	291	655	45	31	45	22	45	0	0	0	0
	point290	290										
SR-94 WB @ Maxfield	point311	311	856	45	41	45	29	45	0	0	0	0
	point310	310	856	45	41	45	29	45	0	0	0	0
	point309	309	856	45	41	45	29	45	0	0	0	0
	point308	308	856	45	41	45	29	45	0	0	0	0
	point307	307	856	45	41	45	29	45	0	0	0	0
	point306	306	856	45	41	45	29	45	0	0	0	0
	point305	305	856	45	41	45	29	45	0	0	0	0
	point304	304	856	45	41	45	29	45	0	0	0	0
	point303	303	856	45	41	45	29	45	0	0	0	0
	point302	302	856	45	41	45	29	45	0	0	0	0
	point301	301	856	45	41	45	29	45	0	0	0	0
	point300	300	856	45	41	45	29	45	0	0	0	0
	point299	299	856	45	41	45	29	45	0	0	0	0
	point298	298	856	45	41	45	29	45	0	0	0	0
	point297	297	856	45	41	45	29	45	0	0	0	0
	point296	296	856	45	41	45	29	45	0	0	0	0
	point295	295										
SR-94 EB @ Maxfield IN Lane	point332	332	832	45	40	45	28	45	0	0	0	0

	point331	331										
SR-94 EB @ Maxfield OS Lane	point350	350	428	45	21	45	15	45	0	0	0	0
	point349	349	428	45	21	45	15	45	0	0	0	0
	point348	348	428	45	21	45	15	45	0	0	0	0
	point346	346	428	45	21	45	15	45	0	0	0	0
	point345	345	428	45	21	45	15	45	0	0	0	0
	point344	344	428	45	21	45	15	45	0	0	0	0
	point343	343	428	45	21	45	15	45	0	0	0	0
	point341	341	428	45	21	45	15	45	0	0	0	0
	point340	340	428	45	21	45	15	45	0	0	0	0
	point339	339	428	45	21	45	15	45	0	0	0	0
	point338	338	428	45	21	45	15	45	0	0	0	0
	point337	337	428	45	21	45	15	45	0	0	0	0
	point335	335	428	45	21	45	15	45	0	0	0	0
	point334	334	428	45	21	45	15	45	0	0	0	0
	point333	333										
Campo Rd WB-Wo/Steele CnynNew	point351	351	713	45	34	45	24	45	0	0	0	0
	point289	289	713	45	34	45	24	45	0	0	0	0
	point288	288										
Campo Rd EB-Eo/Steele CnynNew	point352	352	655	45	31	45	22	45	0	0	0	0
	point283	283	655	45	31	45	22	45	0	0	0	0
	point282	282										
Campo Rd/SR-94 EB - E of Steele Cnyn	point206	206	655	45	31	45	22	45	0	0	0	0
	point117	117	655	45	31	45	22	45	0	0	0	0
	point353	353	655	45	31	45	22	45	0	0	0	0
	point362	362	1309	45	62	45	44	45	0	0	0	0
	point115	115	1309	45	62	45	44	45	0	0	0	0
	point114	114	1309	45	62	45	44	45	0	0	0	0
	point113	113	1309	45	62	45	44	45	0	0	0	0
	point112	112	1309	45	62	45	44	45	0	0	0	0
	point111	111	1309	45	62	45	44	45	0	0	0	0
	point110	110	1309	45	62	45	44	45	0	0	0	0
	point109	109	1309	45	62	45	44	45	0	0	0	0
	point108	108	1309	45	62	45	44	45	0	0	0	0
	point107	107	1309	45	62	45	44	45	0	0	0	0
	point106	106	1309	45	62	45	44	45	0	0	0	0

	point105	105	1309	45	62	45	44	45	0	0	0	0
	point104	104										
SR-94 EB @ Maxfield IN Lane-2	point358	358	856	45	41	45	29	45	0	0	0	0
	point330	330	428	45	21	45	15	45	0	0	0	0
	point329	329	428	45	21	45	15	45	0	0	0	0
	point328	328	428	45	21	45	15	45	0	0	0	0
	point326	326	428	45	21	45	15	45	0	0	0	0
	point325	325	428	45	21	45	15	45	0	0	0	0
	point324	324	428	45	21	45	15	45	0	0	0	0
	point323	323	428	45	21	45	15	45	0	0	0	0
	point321	321	428	45	21	45	15	45	0	0	0	0
	point320	320	428	45	21	45	15	45	0	0	0	0
	point319	319	428	45	21	45	15	45	0	0	0	0
	point318	318	428	45	21	45	15	45	0	0	0	0
	point317	317	428	45	21	45	15	45	0	0	0	0
	point315	315	428	45	21	45	15	45	0	0	0	0
	point314	314	428	45	21	45	15	45	0	0	0	0
	point313	313	856	45	41	45	29	45	0	0	0	0
	point312	312										
SR-94 WB @ Maxfield-2	point359	359	832	45	40	45	28	45	0	0	0	0
	point294	294										

LDN 9 August 2014
Louden TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: SR-94 Intersection Improvements
RUN: 2015 Build

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria Existing LAeq1h	Impact Criteria LAeq1h	Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
R-26	1	1	6,345,744.0	1,850,247.0	483.00	4.92	0.00	66	10.0	8.0	Y
R-27	4	1	6,348,136.0	1,849,676.4	371.00	4.92	0.00	72	10.0	8.0	Y
R-28	6	1	6,348,278.0	1,849,691.9	365.00	4.92	0.00	66	10.0	8.0	Y
R-29	7	1	6,348,409.0	1,849,728.8	356.00	4.92	0.00	66	10.0	8.0	Y
R-30	8	1	6,348,496.5	1,849,663.1	356.00	4.92	0.00	66	10.0	8.0	Y
R-31	9	1	6,348,577.0	1,849,681.5	356.00	4.92	0.00	66	10.0	8.0	Y
R-32	10	1	6,348,854.5	1,849,700.2	356.00	4.92	0.00	66	10.0	8.0	Y
R-33	11	1	6,349,069.5	1,849,716.8	353.00	4.92	0.00	66	10.0	8.0	Y
R-34	12	1	6,348,728.0	1,849,184.4	348.00	4.92	0.00	66	10.0	8.0	Y
R-35	13	1	6,348,933.5	1,849,333.9	345.00	4.92	0.00	66	10.0	8.0	Y
R-36	14	1	6,348,988.5	1,849,352.8	345.00	4.92	0.00	66	10.0	8.0	Y
R-37	15	1	6,349,038.0	1,849,246.0	342.00	4.92	0.00	66	10.0	8.0	Y
R-38	19	1	6,349,579.0	1,848,305.0	329.00	4.92	0.00	66	10.0	8.0	Y
R-39	22	1	6,357,703.5	1,844,585.4	532.00	4.92	0.00	66	10.0	8.0	Y
R-40	23	1	6,358,049.0	1,844,722.1	555.00	4.92	0.00	66	10.0	8.0	Y
R-41	24	1	6,357,771.5	1,844,281.5	518.00	4.92	0.00	66	10.0	8.0	Y
R-42	26	1	6,358,683.5	1,844,936.1	555.00	4.92	0.00	66	10.0	8.0	Y
R-43	27	1	6,358,290.0	1,844,908.5	572.00	4.92	0.00	66	10.0	8.0	Y
R-44	28	1	6,358,640.0	1,845,078.5	563.00	4.92	0.00	66	10.0	8.0	Y
R-45	29	1	6,358,827.0	1,845,049.2	555.00	4.92	0.00	66	10.0	8.0	Y
R-46	30	1	6,359,083.0	1,845,176.5	553.00	4.92	0.00	66	10.0	8.0	Y
R-47	31	1	6,358,940.5	1,845,301.5	566.00	4.92	0.00	66	10.0	8.0	Y

R-48	32	1	6,358,935.0	1,845,362.2	568.00	4.92	0.00	66	10.0	8.0	Y
R-49	33	1	6,358,923.0	1,845,479.5	576.50	4.92	0.00	66	10.0	8.0	Y
R-50	34	1	6,359,499.5	1,845,678.0	588.00	4.92	0.00	66	10.0	8.0	Y
R-51	35	1	6,359,786.5	1,845,716.2	590.00	4.92	0.00	66	10.0	8.0	Y
R-52	36	1	6,359,908.0	1,845,755.1	590.00	4.92	0.00	66	10.0	8.0	Y
R-53	38	1	6,367,663.5	1,842,403.4	890.00	4.92	0.00	66	10.0	8.0	Y
R-54	40	1	6,367,853.0	1,842,112.0	890.00	4.92	0.00	66	10.0	8.0	Y
R-55	41	1	6,367,975.0	1,842,298.4	900.00	4.92	0.00	66	10.0	8.0	Y
R-56	42	1	6,370,215.0	1,840,600.0	1,065.00	4.92	0.00	66	10.0	8.0	Y
R-57	44	1	6,370,314.0	1,840,507.1	1,060.00	4.92	0.00	66	10.0	8.0	Y
R-58	45	1	6,370,501.5	1,840,121.6	1,039.00	4.92	0.00	66	10.0	8.0	Y
R-59	46	1	6,370,809.0	1,840,171.1	1,031.00	4.92	0.00	66	10.0	8.0	Y
R-60	47	1	6,370,712.5	1,840,009.6	1,028.00	4.92	0.00	66	10.0	8.0	Y

LDN **9 August 2014**
Louden **TNM 2.5**

INPUT: BARRIERS
PROJECT/CONTRACT: **SR-94 Intersection Improvements**
RUN: **2015 Build**

Barrier Name	Type	Height Min	Height Max	If Wall $ per Unit Area	If Berm $ per Unit Vol.	Top Width	Run:Rise	Add'tnl $ per Unit Length	Points Name	No.	Coordinates (bottom) X	Y	Z	Height at Point	Segment Seg Ht Increment	Perturbs #Up	#Dn	On Struct?	Important Reflections?
		ft	ft	$/sq ft	$/cu yd	ft	ft:ft	$/ft			ft	ft	ft	ft	ft				
TGI Friday's Dinning Wall	W	0.00	99.99	0.00				0.00	point1	1	6,348,965.0	1,849,340.1	345.00	8.00	0.00	0	0		
									point2	2	6,348,973.5	1,849,323.4	345.00	8.00	0.00	0	0		
									point3	3	6,348,944.0	1,849,312.9	345.00	8.00	0.00	0	0		
									point4	4	6,348,931.5	1,849,317.8	345.00	8.00	0.00	0	0		
									point5	5	6,348,901.0	1,849,378.2	345.00	8.00					
Skyline Church Meeting Rooms	W	0.00	99.99	0.00				0.00	point6	6	6,345,628.5	1,850,474.8	483.00	35.00	0.00	0	0		
									point7	7	6,345,804.0	1,850,320.8	483.00	35.00	0.00	0	0		
									point8	8	6,345,748.0	1,850,247.1	483.00	35.00	0.00	0	0		
									point9	9	6,345,570.0	1,850,398.0	483.00	35.00	0.00	0	0		
									point10	10	6,345,628.5	1,850,474.8	483.00	35.00					
Unoccupies House	W	0.00	99.99	0.00				0.00	point11	11	6,348,100.0	1,849,719.1	371.00	14.00	0.00	0	0		
									point12	12	6,348,150.5	1,849,719.1	371.00	14.00	0.00	0	0		
									point13	13	6,348,150.5	1,849,678.9	371.00	14.00	0.00	0	0		
									point14	14	6,348,100.0	1,849,678.9	371.00	14.00	0.00	0	0		
									point15	15	6,348,100.0	1,849,719.1	371.00	14.00					
Car Dealership	W	0.00	99.99	0.00				0.00	point16	16	6,348,282.5	1,849,696.1	365.00	14.00	0.00	0	0		
									point17	17	6,348,324.0	1,849,693.2	365.00	14.00	0.00	0	0		
									point18	18	6,348,322.0	1,849,663.4	365.00	14.00	0.00	0	0		
									point19	19	6,348,280.5	1,849,666.4	365.00	14.00	0.00	0	0		
									point20	20	6,348,282.5	1,849,696.1	365.00	14.00					
Circle K	W	0.00	99.99	0.00				0.00	point21	21	6,348,453.0	1,849,718.0	356.00	20.00	0.00	0	0		
									point22	22	6,348,501.5	1,849,717.5	356.00	20.00	0.00	0	0		
									point23	23	6,348,500.5	1,849,663.2	356.00	20.00	0.00	0	0		
									point24	24	6,348,452.5	1,849,663.9	356.00	20.00	0.00	0	0		
									point25	25	6,348,453.0	1,849,718.0	356.00	20.00					
Gas Station Garage	W	0.00	99.99	0.00				0.00	point26	26	6,348,510.0	1,849,806.6	358.00	20.00	0.00	0	0		
									point27	27	6,348,588.5	1,849,806.6	358.00	20.00	0.00	0	0		
									point28	28	6,348,588.5	1,849,770.9	358.00	20.00	0.00	0	0		
									point29	29	6,348,510.0	1,849,770.9	358.00	20.00	0.00	0	0		
									point30	30	6,348,510.0	1,849,806.6	358.00	20.00					
Burger King	W	0.00	99.99	0.00				0.00	point31	31	6,348,771.0	1,849,769.1	356.00	20.00	0.00	0	0		
									point32	32	6,348,813.0	1,849,673.1	356.00	20.00	0.00	0	0		
									point33	33	6,348,849.5	1,849,689.1	356.00	20.00	0.00	0	0		
									point34	34	6,348,808.0	1,849,785.1	356.00	20.00	0.00	0	0		
									point35	35	6,348,771.0	1,849,769.1	356.00	20.00					

Animal Hospital	W	0.00	99.99	0.00				0.00	point36	36	6,349,077.0	1,849,724.6	353.00	20.00	0.00	0	0		
									point37	37	6,349,044.0	1,849,795.2	353.00	20.00	0.00	0	0		
									point38	38	6,348,984.0	1,849,767.4	353.00	20.00	0.00	0	0		
									point39	39	6,349,017.0	1,849,696.9	353.00	20.00	0.00	0	0		
									point40	40	6,349,077.0	1,849,724.6	353.00	20.00					
TGI Friday's	W	0.00	99.99	0.00				0.00	point41	41	6,348,898.5	1,849,454.5	345.00	20.00	0.00	0	0		
									point42	42	6,348,996.0	1,849,388.1	345.00	20.00	0.00	0	0		
									point43	43	6,348,962.0	1,849,338.1	345.00	20.00	0.00	0	0		
									point44	44	6,348,864.5	1,849,404.5	345.00	20.00	0.00	0	0		
									point45	45	6,348,898.5	1,849,454.5	345.00	20.00					
Bank/Retail	W	0.00	99.99	0.00				0.00	point46	46	6,348,913.5	1,849,245.5	342.00	20.00	0.00	0	0		
									point47	47	6,349,010.0	1,849,286.2	342.00	20.00	0.00	0	0		
									point48	48	6,349,051.0	1,849,189.0	342.00	20.00	0.00	0	0		
									point49	49	6,348,954.5	1,849,148.2	342.00	20.00	0.00	0	0		
									point50	50	6,348,913.5	1,849,245.5	342.00	20.00					
YMCA	W	0.00	99.99	0.00				0.00	point51	51	6,349,278.0	1,848,361.8	329.00	36.00	0.00	0	0		
									point52	52	6,349,370.0	1,848,376.2	329.00	36.00	0.00	0	0		
									point53	53	6,349,384.0	1,848,282.6	329.00	36.00	0.00	0	0		
									point54	54	6,349,401.5	1,848,285.8	329.00	36.00	0.00	0	0		
									point55	55	6,349,410.5	1,848,246.8	329.00	36.00	0.00	0	0		
									point56	56	6,349,395.0	1,848,243.5	329.00	36.00	0.00	0	0		
									point57	57	6,349,398.5	1,848,225.0	329.00	36.00	0.00	0	0		
									point58	58	6,349,413.5	1,848,226.1	329.00	36.00	0.00	0	0		
									point59	59	6,349,434.0	1,848,125.2	329.00	36.00	0.00	0	0		
									point60	60	6,349,500.5	1,848,145.9	329.00	36.00	0.00	0	0		
									point61	61	6,349,543.5	1,848,143.6	329.00	36.00	0.00	0	0		
									point62	62	6,349,568.5	1,848,093.8	329.00	36.00	0.00	0	0		
									point63	63	6,349,511.0	1,847,967.9	329.00	36.00	0.00	0	0		
									point64	64	6,349,319.0	1,847,935.4	329.00	36.00	0.00	0	0		
									point65	65	6,349,307.0	1,848,033.0	329.00	36.00	0.00	0	0		
									point66	66	6,349,318.0	1,848,040.6	329.00	36.00	0.00	0	0		
									point67	67	6,349,297.5	1,848,161.0	329.00	36.00	0.00	0	0		
									point68	68	6,349,307.5	1,848,161.9	329.00	36.00	0.00	0	0		
									point69	69	6,349,292.0	1,848,257.6	329.00	36.00	0.00	0	0		
									point70	70	6,349,298.5	1,848,259.8	329.00	36.00	0.00	0	0		
									point71	71	6,349,278.0	1,848,361.8	329.00	36.00					
3155 Fair Acres Lane	W	0.00	99.99	0.00				0.00	point72	72	6,357,679.0	1,844,660.2	532.00	14.00	0.00	0	0		
									point73	73	6,357,751.5	1,844,663.1	532.00	14.00	0.00	0	0		
									point74	74	6,357,753.5	1,844,613.4	532.00	14.00	0.00	0	0		
									point75	75	6,357,681.0	1,844,610.4	532.00	14.00	0.00	0	0		
									point76	76	6,357,679.0	1,844,660.2	532.00	14.00					
12786 Campo Road	W	0.00	99.99	0.00				0.00	point77	77	6,357,805.5	1,844,669.8	536.00	14.00	0.00	0	0		
									point78	78	6,357,884.5	1,844,673.9	536.00	14.00	0.00	0	0		
									point79	79	6,357,887.0	1,844,624.5	536.00	14.00	0.00	0	0		
									point80	80	6,357,808.0	1,844,620.2	536.00	14.00	0.00	0	0		
									point81	81	6,357,805.5	1,844,669.8	536.00	14.00					
3140 Florence Terrace	W	0.00	99.99	0.00				0.00	point82	82	6,357,800.5	1,844,340.6	518.00	14.00	0.00	0	0		
									point83	83	6,357,889.0	1,844,356.0	518.00	14.00	0.00	0	0		
									point84	84	6,357,897.0	1,844,310.9	518.00	14.00	0.00	0	0		

									point85	85	6,357,808.5	1,844,295.5	518.00	14.00	0.00	0	0			
									point86	86	6,357,800.5	1,844,340.6	518.00	14.00						
3113 Pine Lane	W	0.00	99.99	0.00				0.00	point87	87	6,357,989.5	1,844,752.2	555.00	14.00	0.00	0	0			
									point88	88	6,358,016.0	1,844,754.1	555.00	14.00	0.00	0	0			
									point89	89	6,358,016.0	1,844,740.8	555.00	14.00	0.00	0	0			
									point90	90	6,358,040.5	1,844,741.4	555.00	14.00	0.00	0	0			
									point91	91	6,358,043.0	1,844,707.2	555.00	14.00	0.00	0	0			
									point92	92	6,357,993.0	1,844,703.6	555.00	14.00	0.00	0	0			
									point93	93	6,357,989.5	1,844,752.2	555.00	14.00						
12856 Campo Road	W	0.00	99.99	0.00				0.00	point94	94	6,358,360.5	1,844,952.8	572.00	14.00	0.00	0	0			
									point95	95	6,358,332.5	1,844,935.4	572.00	14.00	0.00	0	0			
									point96	96	6,358,319.5	1,844,906.8	572.00	14.00	0.00	0	0			
									point97	97	6,358,307.0	1,844,909.5	572.00	14.00	0.00	0	0			
									point98	98	6,358,301.5	1,844,891.4	572.00	14.00	0.00	0	0			
									point99	99	6,358,314.5	1,844,888.0	572.00	14.00	0.00	0	0			
									point100	100	6,358,307.0	1,844,847.4	572.00	14.00	0.00	0	0			
									point101	101	6,358,324.0	1,844,819.9	572.00	14.00	0.00	0	0			
									point102	102	6,358,346.5	1,844,834.4	572.00	14.00	0.00	0	0			
									point103	103	6,358,337.5	1,844,849.0	572.00	14.00	0.00	0	0			
									point104	104	6,358,342.5	1,844,867.2	572.00	14.00	0.00	0	0			
									point105	105	6,358,356.5	1,844,863.4	572.00	14.00	0.00	0	0			
									point106	106	6,358,363.5	1,844,885.5	572.00	14.00	0.00	0	0			
									point107	107	6,358,359.0	1,844,889.4	572.00	14.00	0.00	0	0			
									point108	108	6,358,360.5	1,844,895.5	572.00	14.00	0.00	0	0			
									point109	109	6,358,354.5	1,844,902.9	572.00	14.00	0.00	0	0			
									point110	110	6,358,347.5	1,844,902.9	572.00	14.00	0.00	0	0			
									point111	111	6,358,352.5	1,844,916.8	572.00	14.00	0.00	0	0			
									point112	112	6,358,376.0	1,844,928.0	572.00	14.00	0.00	0	0			
									point113	113	6,358,360.5	1,844,952.8	572.00	14.00						
Ranch Feed and Supply Store	W	0.00	99.99	0.00				0.00	point114	114	6,358,588.5	1,845,165.4	563.00	14.00	0.00	0	0			
									point115	115	6,358,592.5	1,845,051.1	563.00	14.00	0.00	0	0			
									point116	116	6,358,631.5	1,845,053.8	563.00	14.00	0.00	0	0			
									point117	117	6,358,624.5	1,845,172.6	563.00	14.00	0.00	0	0			
									point118	118	6,358,587.0	1,845,170.1	563.00	14.00						
Ranch Feed and Supply Store Barn	W	0.00	99.99	0.00				0.00	point119	119	6,358,673.5	1,845,154.1	563.00	20.00	0.00	0	0			
									point120	120	6,358,701.0	1,845,173.6	563.00	20.00	0.00	0	0			
									point121	121	6,358,730.5	1,845,132.0	563.00	20.00	0.00	0	0			
									point122	122	6,358,703.0	1,845,112.5	563.00	20.00	0.00	0	0			
									point123	123	6,358,673.5	1,845,154.1	563.00	20.00						
Steele Canyon Produce	W	0.00	99.99	0.00				0.00	point124	124	6,358,670.0	1,844,924.1	555.00	14.00	0.00	0	0			
									point125	125	6,358,776.5	1,845,006.0	555.00	14.00	0.00	0	0			
									point126	126	6,358,795.5	1,844,980.9	555.00	14.00	0.00	0	0			
									point127	127	6,358,726.0	1,844,932.2	555.00	14.00	0.00	0	0			
									point128	128	6,358,732.0	1,844,924.4	555.00	14.00	0.00	0	0			
									point129	129	6,358,691.5	1,844,894.0	555.00	14.00	0.00	0	0			
									point130	130	6,358,670.0	1,844,924.1	555.00	14.00						
Greek Sombrer	W	0.00	99.99	0.00				0.00	point131	131	6,358,901.0	1,845,085.5	555.00	14.00	0.00	0	0			
									point132	132	6,358,928.5	1,845,042.9	555.00	14.00	0.00	0	0			
									point133	133	6,358,860.0	1,844,998.6	555.00	14.00	0.00	0	0			

									point134	134	6,358,832.5	1,845,041.2	555.00	14.00	0.00	0	0			
									point135	135	6,358,901.0	1,845,085.5	555.00	14.00						
12931 Highway 94	W	0.00	99.99	0.00				0.00	point136	136	6,359,100.0	1,845,216.6	553.00	14.00	0.00	0	0			
									point137	137	6,359,043.0	1,845,196.1	553.00	14.00	0.00	0	0			
									point138	138	6,359,053.0	1,845,162.9	553.00	14.00	0.00	0	0			
									point139	139	6,359,076.5	1,845,169.8	553.00	14.00	0.00	0	0			
									point140	140	6,359,071.0	1,845,180.0	553.00	14.00	0.00	0	0			
									point141	141	6,359,107.0	1,845,190.9	553.00	14.00	0.00	0	0			
									point142	142	6,359,100.0	1,845,216.6	553.00	14.00						
Retail Services Center	W	0.00	99.99	0.00				0.00	point143	143	6,358,870.5	1,845,559.5	576.50	20.00	0.00	0	0			
									point144	144	6,358,991.5	1,845,576.4	576.50	20.00	0.00	0	0			
									point145	145	6,358,991.5	1,845,566.8	576.50	20.00	0.00	0	0			
									point146	146	6,359,091.5	1,845,578.0	576.50	20.00	0.00	0	0			
									point147	147	6,359,093.5	1,845,569.4	576.50	20.00	0.00	0	0			
									point148	148	6,359,171.5	1,845,578.0	576.50	20.00	0.00	0	0			
									point149	149	6,359,178.5	1,845,522.5	576.50	20.00	0.00	0	0			
									point150	150	6,358,880.5	1,845,485.1	576.50	20.00	0.00	0	0			
									point151	151	6,358,870.5	1,845,559.5	576.50	20.00						
7-11	W	0.00	99.99	0.00				0.00	point152	152	6,358,920.0	1,845,423.2	568.00	20.00	0.00	0	0			
									point153	153	6,359,003.5	1,845,433.2	568.00	20.00	0.00	0	0			
									point154	154	6,359,009.5	1,845,383.0	568.00	20.00	0.00	0	0			
									point155	155	6,358,926.0	1,845,372.9	568.00	20.00	0.00	0	0			
									point156	156	6,358,920.0	1,845,423.2	568.00	20.00						
3215 Vis Las Faldas	W	0.00	99.99	0.00				0.00	point157	157	6,359,412.5	1,845,659.6	588.00	14.00	0.00	0	0			
									point158	158	6,359,466.0	1,845,662.0	588.00	14.00	0.00	0	0			
									point159	159	6,359,466.0	1,845,671.1	588.00	14.00	0.00	0	0			
									point160	160	6,359,495.0	1,845,670.6	588.00	14.00	0.00	0	0			
									point161	161	6,359,495.0	1,845,663.8	588.00	14.00	0.00	0	0			
									point162	162	6,359,526.5	1,845,665.9	588.00	14.00	0.00	0	0			
									point163	163	6,359,529.5	1,845,628.5	588.00	14.00	0.00	0	0			
									point164	164	6,359,412.5	1,845,621.5	588.00	14.00	0.00	0	0			
									point165	165	6,359,410.0	1,845,658.9	588.00	14.00						
13004 Highway 94	W	0.00	99.99	0.00				0.00	point166	166	6,359,848.5	1,845,765.5	590.00	14.00	0.00	0	0			
									point167	167	6,359,794.5	1,845,764.9	590.00	14.00	0.00	0	0			
									point168	168	6,359,795.5	1,845,689.4	590.00	14.00	0.00	0	0			
									point169	169	6,359,849.5	1,845,690.0	590.00	14.00	0.00	0	0			
									point170	170	6,359,848.5	1,845,765.5	590.00	14.00						
13012 Highway 94	W	0.00	99.99	0.00				0.00	point171	171	6,359,888.5	1,845,749.9	590.00	14.00	0.00	0	0			
									point172	172	6,359,937.5	1,845,753.6	590.00	14.00	0.00	0	0			
									point173	173	6,359,935.5	1,845,747.2	590.00	14.00	0.00	0	0			
									point174	174	6,359,959.0	1,845,749.0	590.00	14.00	0.00	0	0			
									point175	175	6,359,960.5	1,845,721.4	590.00	14.00	0.00	0	0			
									point176	176	6,359,906.5	1,845,716.1	590.00	14.00	0.00	0	0			
									point177	177	6,359,907.5	1,845,713.0	590.00	14.00	0.00	0	0			
									point178	178	6,359,888.5	1,845,711.2	590.00	14.00	0.00	0	0			
									point179	179	6,359,887.0	1,845,750.0	590.00	14.00						
Commercial Offices	W	0.00	99.99	0.00				0.00	point185	185	6,367,637.5	1,842,429.2	890.00	14.00	0.00	0	0			
									point186	186	6,367,688.5	1,842,358.5	890.00	14.00	0.00	0	0			
									point187	187	6,367,669.0	1,842,344.4	890.00	14.00	0.00	0	0			

									point188	188	6,367,618.0	1,842,415.1	890.00	14.00	0.00	0	0		
									point189	189	6,367,637.5	1,842,429.2	890.00	14.00					
Taproot Tot Daycare	W	0.00	99.99	0.00				0.00	point190	190	6,367,801.5	1,842,181.6	890.00	14.00	0.00	0	0		
									point191	191	6,367,861.0	1,842,152.6	890.00	14.00	0.00	0	0		
									point192	192	6,367,831.5	1,842,091.9	890.00	14.00	0.00	0	0		
									point193	193	6,367,772.0	1,842,120.9	890.00	14.00	0.00	0	0		
									point194	194	6,367,801.5	1,842,181.6	890.00	14.00					
Real Estate Office	W	0.00	99.99	0.00				0.00	point195	195	6,367,939.5	1,842,315.2	900.00	14.00	0.00	0	0		
									point196	196	6,367,971.0	1,842,313.9	900.00	14.00	0.00	0	0		
									point197	197	6,367,969.0	1,842,275.8	900.00	14.00	0.00	0	0		
									point198	198	6,367,938.0	1,842,277.1	900.00	14.00	0.00	0	0		
									point199	199	6,367,939.5	1,842,315.2	900.00	14.00					
13925 Campo Road	W	0.00	99.99	0.00				0.00	point200	200	6,370,323.5	1,840,540.8	1,060.00	14.00	0.00	0	0		
									point201	201	6,370,370.0	1,840,534.2	1,060.00	14.00	0.00	0	0		
									point202	202	6,370,362.0	1,840,478.5	1,060.00	14.00	0.00	0	0		
									point203	203	6,370,316.0	1,840,485.0	1,060.00	14.00	0.00	0	0		
									point204	204	6,370,323.5	1,840,540.8	1,060.00	14.00					
13925 Campo Road B2	W	0.00	99.99	0.00				0.00	point205	205	6,370,337.5	1,840,462.0	1,060.00	14.00	0.00	0	0		
									point206	206	6,370,330.5	1,840,419.6	1,060.00	14.00	0.00	0	0		
									point207	207	6,370,358.0	1,840,414.9	1,060.00	14.00	0.00	0	0		
									point208	208	6,370,365.0	1,840,457.4	1,060.00	14.00	0.00	0	0		
									point209	209	6,370,337.5	1,840,462.0	1,060.00	14.00					
US Post Office	W	0.00	99.99	0.00				0.00	point210	210	6,370,485.0	1,840,193.9	1,039.00	14.00	0.00	0	0		
									point211	211	6,370,486.0	1,840,060.0	1,039.00	14.00	0.00	0	0		
									point212	212	6,370,421.0	1,840,059.5	1,039.00	14.00	0.00	0	0		
									point213	213	6,370,420.0	1,840,193.2	1,039.00	14.00	0.00	0	0		
									point214	214	6,370,485.0	1,840,193.9	1,039.00	14.00					
Office Commercial Bldg 2	W	0.00	99.99	0.00				0.00	point215	215	6,370,486.5	1,840,002.6	1,034.00	30.00	0.00	0	0		
									point216	216	6,370,536.5	1,840,001.5	1,034.00	30.00	0.00	0	0		
									point217	217	6,370,534.0	1,839,892.1	1,034.00	30.00	0.00	0	0		
									point218	218	6,370,484.0	1,839,893.2	1,034.00	30.00	0.00	0	0		
									point219	219	6,370,486.5	1,840,002.6	1,034.00	30.00					
Wharehouse/Polebarn	W	0.00	99.99	0.00				0.00	point220	220	6,370,736.0	1,840,219.4	1,031.00	20.00	0.00	0	0		
									point221	221	6,370,788.5	1,840,219.0	1,031.00	20.00	0.00	0	0		
									point222	222	6,370,788.0	1,840,120.6	1,031.00	20.00	0.00	0	0		
									point223	223	6,370,735.5	1,840,120.9	1,031.00	20.00	0.00	0	0		
									point224	224	6,370,736.0	1,840,219.4	1,031.00	20.00					
Jamul Feed and Supply Barn	W	0.00	99.99	0.00				0.00	point225	225	6,370,724.0	1,840,077.6	1,028.00	20.00	0.00	0	0		
									point226	226	6,370,788.0	1,840,078.6	1,028.00	20.00	0.00	0	0		
									point227	227	6,370,788.5	1,840,044.8	1,028.00	20.00	0.00	0	0		
									point228	228	6,370,724.5	1,840,043.9	1,028.00	20.00	0.00	0	0		
									point229	229	6,370,724.0	1,840,077.6	1,028.00	20.00					
Jamul Feed and Supply Store	W	0.00	99.99	0.00				0.00	point230	230	6,370,716.5	1,840,025.6	1,028.00	14.00	0.00	0	0		
									point231	231	6,370,751.0	1,840,027.6	1,028.00	14.00	0.00	0	0		
									point232	232	6,370,752.5	1,840,001.0	1,028.00	14.00	0.00	0	0		
									point233	233	6,370,718.0	1,839,999.0	1,028.00	14.00	0.00	0	0		
									point234	234	6,370,716.5	1,840,025.6	1,028.00	14.00					

LDN			9 August 2014	
Louden			TNM 2.5	
INPUT: TERRAIN LINES				
PROJECT/CONTRACT:	SR-94 Intersection Improvements			
RUN:	2015 Build			
Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
<< This table is empty >>				

LDN
Louden

9 August 2014
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: SR-94 Intersection Improvements
RUN: 2035 Build
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
R-26	1	1	0.0	63.7	66	63.7	10	----	63.7	0.0	8	-8.0
R-27	4	1	0.0	73.6	72	73.6	10	Snd Lvl	73.6	0.0	8	-8.0
R-28	6	1	0.0	70.2	66	70.2	10	Snd Lvl	70.2	0.0	8	-8.0
R-29	7	1	0.0	68.0	66	68.0	10	Snd Lvl	68.0	0.0	8	-8.0
R-30	8	1	0.0	76.6	66	76.6	10	Snd Lvl	76.6	0.0	8	-8.0
R-31	9	1	0.0	75.9	66	75.9	10	Snd Lvl	75.9	0.0	8	-8.0
R-32	10	1	0.0	71.2	66	71.2	10	Snd Lvl	71.2	0.0	8	-8.0
R-33	11	1	0.0	71.7	66	71.7	10	Snd Lvl	71.7	0.0	8	-8.0
R-34	12	1	0.0	70.1	66	70.1	10	Snd Lvl	70.1	0.0	8	-8.0
R-35	13	1	0.0	59.5	66	59.5	10	----	59.5	0.0	8	-8.0
R-36	14	1	0.0	57.6	66	57.6	10	----	57.6	0.0	8	-8.0
R-37	15	1	0.0	56.2	66	56.2	10	----	56.2	0.0	8	-8.0
R-38	19	1	0.0	53.1	66	53.1	10	----	53.1	0.0	8	-8.0
R-39	22	1	0.0	63.1	66	63.1	10	----	63.1	0.0	8	-8.0
R-40	23	1	0.0	62.1	66	62.1	10	----	62.1	0.0	8	-8.0
R-41	24	1	0.0	61.6	66	61.6	10	----	61.6	0.0	8	-8.0
R-42	26	1	0.0	72.4	66	72.4	10	Snd Lvl	72.4	0.0	8	-8.0
R-43	27	1	0.0	58.1	66	58.1	10	----	58.1	0.0	8	-8.0
R-44	28	1	0.0	70.7	66	70.7	10	Snd Lvl	70.7	0.0	8	-8.0
R-45	29	1	0.0	71.9	66	71.9	10	Snd Lvl	71.9	0.0	8	-8.0
R-46	30	1	0.0	53.7	66	53.7	10	----	53.7	0.0	8	-8.0
R-47	31	1	0.0	73.0	66	73.0	10	Snd Lvl	73.0	0.0	8	-8.0
R-48	32	1	0.0	68.7	66	68.7	10	Snd Lvl	68.7	0.0	8	-8.0
R-49	33	1	0.0	63.2	66	63.2	10	----	63.2	0.0	8	-8.0

R-50	34	1	0.0	52.5	66	52.5	10	----	52.5	0.0	8	-8.0
R-51	35	1	0.0	59.2	66	59.2	10	----	59.2	0.0	8	-8.0
R-52	36	1	0.0	39.1	66	39.1	10	----	39.1	0.0	8	-8.0
R-53	38	1	0.0	71.2	66	71.2	10	Snd Lvl	71.2	0.0	8	-8.0
R-54	40	1	0.0	59.7	66	59.7	10	----	59.7	0.0	8	-8.0
R-55	41	1	0.0	62.0	66	62.0	10	----	62.0	0.0	8	-8.0
R-56	42	1	0.0	57.3	66	57.3	10	----	57.3	0.0	8	-8.0
R-57	44	1	0.0	51.7	66	51.7	10	----	51.7	0.0	8	-8.0
R-58	45	1	0.0	61.6	66	61.6	10	----	61.6	0.0	8	-8.0
R-59	46	1	0.0	42.7	66	42.7	10	----	42.7	0.0	8	-8.0
R-60	47	1	0.0	67.0	66	67.0	10	Snd Lvl	67.0	0.0	8	-8.0

Dwelling Units	**# DUs**	**Noise Reduction**		
		Min	**Avg**	**Max**
		dB	**dB**	**dB**
All Selected	35	0.0	0.0	0.0
All Impacted	15	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

LDN 9 August 2014
Louden TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: SR-94 Intersection Improvements
RUN: 2035 Build

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway Name	Width	Points Name	No.	Coordinates (pavement) X	Y	Z	Flow Control Control Device	Speed Constraint	Percent Vehicles Affected	Segment Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
SR-94-EB Lane 1	18.0	point17	17	6,347,146.5	1,849,445.9	398.50				Average	
		point16	16	6,347,875.0	1,849,512.1	376.50				Average	
		point15	15	6,348,242.0	1,849,549.5	363.40				Average	
		point14	14	6,348,472.5	1,849,562.1	356.00				Average	
		point13	13	6,348,734.5	1,849,562.8	351.50					
SR-94-EB Lane 2	18.0	point26	26	6,347,141.0	1,849,433.9	398.50				Average	
		point25	25	6,347,772.5	1,849,492.0	376.50				Average	
		point24	24	6,348,248.0	1,849,533.9	363.40				Average	
		point23	23	6,348,411.5	1,849,544.2	356.00				Average	
		point22	22	6,348,758.5	1,849,545.2	351.50					
Jamacha Rd/SR-54-WB Lane 2	18.0	point37	37	6,349,150.5	1,849,665.1	350.00				Average	
		point36	36	6,349,043.5	1,849,637.1	350.50				Average	
		point35	35	6,348,976.5	1,849,628.2	351.00				Average	
		point34	34	6,348,717.5	1,849,624.9	351.30					
Jamacha Rd/SR-54-WB Lane 1	18.0	point48	48	6,349,153.0	1,849,650.9	350.00				Average	
		point47	47	6,349,081.5	1,849,629.1	350.50				Average	
		point46	46	6,348,978.0	1,849,612.2	351.00				Average	
		point45	45	6,348,746.5	1,849,608.1	351.30					
SR-94-LTLane	12.0	point58	58	6,348,143.0	1,849,553.1	363.40				Average	
		point57	57	6,348,223.5	1,849,562.5	356.00				Average	
		point56	56	6,348,270.0	1,849,567.2	354.00				Average	
		point55	55	6,348,356.0	1,849,571.8	353.00				Average	
		point54	54	6,348,672.5	1,849,576.8	351.50					
Campo Road\SR-94 - SB	24.0	point67	67	6,348,719.5	1,849,517.6	351.50	Signal	0.00	100	Average	
		point66	66	6,348,749.5	1,849,418.4	347.00				Average	

		point65	65	6,348,800.5	1,849,291.8	345.00				Average	
		point64	64	6,349,108.0	1,848,529.8	333.00				Average	
		point63	63	6,349,138.0	1,848,456.6	332.00				Average	
		point62	62	6,349,169.5	1,848,361.2	330.00				Average	
		point61	61	6,349,192.0	1,848,258.1	329.00				Average	
		point60	60	6,349,204.5	1,848,159.5	327.00				Average	
		point59	59	6,349,207.5	1,848,099.8	326.00					
Campo Road\SR-94 - NB LT Lane	24.0	point71	71	6,348,910.5	1,849,109.2	346.00				Average	
		point70	70	6,348,845.0	1,849,262.4	348.00				Average	
		point69	69	6,348,776.0	1,849,432.5	350.00				Average	
		point68	68	6,348,755.0	1,849,515.5	351.50					
Roadway10	24.0	point82	82	6,349,247.5	1,848,103.6	327.00				Average	
		point81	81	6,349,239.0	1,848,224.1	329.00				Average	
		point80	80	6,349,229.0	1,848,293.2	331.00				Average	
		point79	79	6,349,210.0	1,848,385.2	334.00				Average	
		point78	78	6,349,175.5	1,848,483.4	336.00				Average	
		point77	77	6,349,115.5	1,848,633.1	338.00				Average	
		point76	76	6,349,071.5	1,848,735.5	342.00				Average	
		point75	75	6,348,906.5	1,849,178.0	346.00				Average	
		point74	74	6,348,826.0	1,849,372.4	348.00				Average	
		point73	73	6,348,789.0	1,849,475.0	350.00				Average	
		point72	72	6,348,776.5	1,849,519.4	351.50					
Campo Rd/SR-94 WB - E of Steele Cnyn	12.0	point103	103	6,360,410.0	1,845,407.9	590.00				Average	
		point102	102	6,360,223.5	1,845,461.4	585.00				Average	
		point101	101	6,360,114.5	1,845,486.0	579.60				Average	
		point100	100	6,360,025.0	1,845,503.0	577.50				Average	
		point99	99	6,359,932.5	1,845,516.9	578.50				Average	
		point98	98	6,359,856.0	1,845,520.8	578.00				Average	
		point97	97	6,359,739.5	1,845,520.0	577.00				Average	
		point96	96	6,359,635.5	1,845,502.0	576.00				Average	
		point95	95	6,359,567.5	1,845,485.0	574.50				Average	
		point94	94	6,359,509.0	1,845,466.5	573.00				Average	
		point361	361	6,359,263.0	1,845,372.8	568.50				Average	
		point93	93	6,359,017.0	1,845,279.0	564.00				Average	
		point92	92	6,358,909.0	1,845,217.9	562.00					
Campo Rd/SR-94 EB - W of Steele Cnyn	12.0	point126	126	6,357,546.0	1,844,386.6	523.40				Average	
		point125	125	6,357,809.5	1,844,433.2	530.10				Average	
		point124	124	6,357,949.5	1,844,473.5	534.50				Average	
		point123	123	6,358,061.5	1,844,520.8	538.50				Average	

		point122	122	6,358,153.0	1,844,568.2	543.00				Average	
		point121	121	6,358,245.0	1,844,626.6	548.00				Average	
		point120	120	6,358,372.5	1,844,730.4	553.20				Average	
		point362	362	6,358,595.0	1,844,924.0	555.85				Average	
		point119	119	6,358,818.0	1,845,117.6	558.50				Average	
		point118	118	6,358,915.0	1,845,189.5	560.00					
Steele Cnyn NB	12.0	point130	130	6,358,909.0	1,845,245.8	562.00	Signal	0.00	100	Average	
		point129	129	6,358,877.5	1,845,298.2	566.00				Average	
		point128	128	6,358,867.5	1,845,330.0	567.00				Average	
		point127	127	6,358,845.5	1,845,559.2	580.00					
Steele Cnyn SB	12.0	point135	135	6,358,826.0	1,845,556.2	580.00				Average	
		point134	134	6,358,840.5	1,845,396.2	570.50				Average	
		point133	133	6,358,845.5	1,845,332.1	567.60				Average	
		point132	132	6,358,865.5	1,845,257.5	564.30				Average	
		point131	131	6,358,870.5	1,845,221.2	562.00					
Campo Rd/SR-94 WB - @ Lyons Valley	12.0	point140	140	6,368,011.5	1,842,162.8	905.00				Average	
		point139	139	6,367,866.5	1,842,285.0	897.00				Average	
		point138	138	6,367,774.5	1,842,372.1	895.00				Average	
		point137	137	6,367,730.5	1,842,419.2	893.00				Average	
		point136	136	6,367,675.5	1,842,485.4	892.00					
Campo Rd/SR-94 EB - @ Lyons Valley	12.0	point144	144	6,367,660.5	1,842,468.5	892.00				Average	
		point143	143	6,367,777.5	1,842,341.4	895.00				Average	
		point142	142	6,367,852.0	1,842,271.5	897.00				Average	
		point141	141	6,367,997.5	1,842,148.2	905.00					
Roadway17	12.0	point147	147	6,367,751.5	1,842,214.9	895.00				Average	
		point146	146	6,367,774.0	1,842,249.8	893.00				Average	
		point145	145	6,367,809.0	1,842,279.9	891.00					
Lyons Valley Driveway SB	12.0	point148	148	6,367,792.5	1,842,295.1	895.00				Average	
		point149	149	6,367,736.0	1,842,226.5	891.00					
Lyons Valley Rd SB	12.0	point153	153	6,368,017.5	1,842,389.2	903.00				Average	
		point152	152	6,367,942.5	1,842,382.5	901.00				Average	
		point151	151	6,367,904.0	1,842,374.2	899.00				Average	
		point150	150	6,367,830.0	1,842,337.4	895.00					
Roadway20	12.0	point158	158	6,367,857.5	1,842,308.1	895.00	Stop	0.00	100	Average	
		point157	157	6,367,878.0	1,842,337.9	897.00				Average	
		point156	156	6,367,908.0	1,842,357.8	899.00				Average	
		point155	155	6,367,948.0	1,842,367.8	901.00				Average	
		point154	154	6,368,026.0	1,842,375.0	903.00					
Maxfiled Rd WB	12.0	point198	198	6,370,622.5	1,840,239.2	1,037.00				Average	

		point199	199	6,370,544.0	1,840,228.9	1,037.00					
Maxfiled Rd EB	12.0	point200	200	6,370,544.0	1,840,217.4	1,037.00				Average	
		point201	201	6,370,622.5	1,840,217.8	1,037.00					
Jamacha Rd/SR-54-EB Lane 2	18.0	point202	202	6,348,758.5	1,849,545.2	351.50	Signal	0.00	100	Average	
		point21	21	6,348,900.5	1,849,544.9	352.00				Average	
		point20	20	6,349,007.5	1,849,546.1	352.00				Average	
		point19	19	6,349,084.0	1,849,559.2	352.50				Average	
		point18	18	6,349,162.5	1,849,581.1	353.00					
Jamacha Rd/SR-54-EB Lane 1	18.0	point203	203	6,348,734.5	1,849,562.8	351.50	Signal	0.00	100	Average	
		point12	12	6,348,963.5	1,849,559.1	352.00				Average	
		point11	11	6,349,052.0	1,849,570.1	352.00				Average	
		point10	10	6,349,117.5	1,849,585.4	352.50				Average	
		point9	9	6,349,160.0	1,849,600.2	353.00					
Campo Rd/SR-94-WB Lane 1	18.0	point204	204	6,348,746.5	1,849,608.1	351.30	Signal	0.00	100	Average	
		point44	44	6,348,456.5	1,849,607.1	356.00				Average	
		point43	43	6,348,329.0	1,849,605.5	340.00				Average	
		point42	42	6,348,187.0	1,849,592.0	365.00				Average	
		point41	41	6,347,899.5	1,849,555.5	372.50				Average	
		point40	40	6,347,565.0	1,849,522.4	381.60				Average	
		point39	39	6,347,243.0	1,849,493.0	393.60				Average	
		point38	38	6,347,141.5	1,849,487.4	397.40					
Campo Road/SR-94-WB Lane 2	18.0	point205	205	6,348,717.5	1,849,624.9	351.30	Signal	0.00	100	Average	
		point33	33	6,348,384.5	1,849,618.6	359.00				Average	
		point32	32	6,348,284.5	1,849,612.9	362.50				Average	
		point31	31	6,348,142.0	1,849,597.2	366.50				Average	
		point30	30	6,348,000.0	1,849,579.1	370.00				Average	
		point29	29	6,347,866.0	1,849,565.5	373.00				Average	
		point28	28	6,347,324.0	1,849,513.1	390.70				Average	
		point27	27	6,347,141.5	1,849,498.9	397.40					
Campo Rd/SR-94 WB - W of Steele Cnyn	12.0	point207	207	6,358,909.0	1,845,217.9	562.00	Signal	0.00	100	Average	
		point91	91	6,358,809.0	1,845,144.4	558.50				Average	
		point363	363	6,358,546.0	1,844,917.5	555.85				Average	
		point90	90	6,358,282.5	1,844,690.5	553.20				Average	
		point89	89	6,358,223.5	1,844,645.4	548.00				Average	
		point88	88	6,358,144.0	1,844,596.8	546.00				Average	
		point87	87	6,358,055.5	1,844,546.4	543.00				Average	
		point86	86	6,357,978.0	1,844,511.0	538.50				Average	
		point85	85	6,357,908.0	1,844,486.6	534.50				Average	
		point84	84	6,357,795.0	1,844,455.8	530.10				Average	

		point83	83	6,357,546.0	1,844,412.4	523.40					
Jamacha Blvd SB	24.0	point208	208	6,345,890.0	1,849,708.0	439.00	Signal	0.00	100	Average	
		point209	209	6,345,696.0	1,849,606.0	441.00				Average	
		point210	210	6,345,652.0	1,849,583.0	441.20				Average	
		point211	211	6,345,562.5	1,849,546.0	444.20					
Jamacha Blvd NB	24.0	point214	214	6,345,569.5	1,849,506.5	444.50				Average	
		point213	213	6,345,698.0	1,849,557.8	441.20				Average	
		point212	212	6,345,938.0	1,849,684.5	439.00					
Jamacha Blvd NB - LT Lane	24.0	point215	215	6,345,709.0	1,849,581.2	439.00				Average	
		point216	216	6,345,927.5	1,849,693.6	441.00					
Skyline Driveway Egress	24.0	point222	222	6,346,244.5	1,849,878.1	456.00				Average	
		point221	221	6,346,212.5	1,849,869.4	455.00				Average	
		point220	220	6,346,163.5	1,849,860.8	445.00				Average	
		point219	219	6,346,123.5	1,849,851.6	439.00				Average	
		point218	218	6,346,090.5	1,849,836.4	435.00				Average	
		point217	217	6,345,989.5	1,849,759.6	437.30					
Skyline Driveway Ingress	24.0	point228	228	6,346,021.0	1,849,746.6	437.30				Average	
		point227	227	6,346,087.0	1,849,805.6	439.00				Average	
		point226	226	6,346,124.5	1,849,825.6	442.00				Average	
		point225	225	6,346,176.0	1,849,837.2	445.00				Average	
		point224	224	6,346,233.5	1,849,850.8	455.00				Average	
		point223	223	6,346,262.0	1,849,859.9	456.00					
Campo Road EB - E of Jamacha Blvd	36.0	point229	229	6,346,512.0	1,849,553.4	418.00				Average	
		point230	230	6,346,408.5	1,849,580.4	420.00				Average	
		point231	231	6,346,335.5	1,849,604.6	425.00				Average	
		point232	232	6,346,225.5	1,849,643.8	430.00				Average	
		point233	233	6,346,094.5	1,849,693.2	432.50				Average	
		point234	234	6,345,982.5	1,849,743.5	437.30					
Campo Road WB L1- W of Jamacha Blvd	24.0	point254	254	6,345,373.0	1,850,102.9	448.00				Average	
		point253	253	6,345,441.5	1,850,043.0	447.00				Average	
		point251	251	6,345,593.5	1,849,918.0	446.50				Average	
		point250	250	6,345,669.0	1,849,861.6	446.00				Average	
		point249	249	6,345,775.0	1,849,795.6	443.50				Average	
		point248	248	6,345,841.5	1,849,757.4	441.30				Average	
		point247	247	6,345,940.5	1,849,707.1	439.00					
Campo Road WB L2- W of Jamacha Blvd	12.0	point268	268	6,345,366.0	1,850,088.1	448.00				Average	
		point267	267	6,345,455.5	1,850,011.8	447.00				Average	
		point265	265	6,345,619.5	1,849,875.5	446.50				Average	
		point264	264	6,345,717.5	1,849,809.5	446.00				Average	

		point263	263	6,345,823.5	1,849,749.6	443.50				Average	
		point262	262	6,345,917.0	1,849,701.0	439.00					
Campo Road EB - W of Jamacha Blvd	36.0	point269	269	6,345,982.5	1,849,743.5	437.30				Average	
		point235	235	6,345,881.5	1,849,797.4	441.30				Average	
		point236	236	6,345,791.5	1,849,849.5	443.50				Average	
		point237	237	6,345,724.5	1,849,893.8	446.00				Average	
		point238	238	6,345,664.5	1,849,934.5	446.50				Average	
		point239	239	6,345,605.5	1,849,980.5	447.00				Average	
		point241	241	6,345,408.5	1,850,147.1	448.00					
Campo Road WB L1- E of Jamacha Blvd	24.0	point270	270	6,345,940.5	1,849,707.1	439.00				Average	
		point246	246	6,346,038.5	1,849,655.9	435.00				Average	
		point245	245	6,346,169.0	1,849,601.1	430.00				Average	
		point244	244	6,346,282.0	1,849,559.5	425.00				Average	
		point243	243	6,346,375.5	1,849,530.9	420.00				Average	
		point242	242	6,346,499.0	1,849,500.5	418.00					
Campo Road WB L2- E of Jamacha Blvd	12.0	point271	271	6,345,917.0	1,849,701.0	439.00				Average	
		point261	261	6,346,006.5	1,849,655.9	435.00				Average	
		point260	260	6,346,102.0	1,849,613.4	430.00				Average	
		point259	259	6,346,202.0	1,849,574.2	425.00				Average	
		point258	258	6,346,306.0	1,849,540.4	423.50				Average	
		point257	257	6,346,410.0	1,849,508.2	419.00				Average	
		point256	256	6,346,502.0	1,849,485.8	418.00					
SR-94-EB New OS RT Lane	12.0	point276	276	6,348,200.0	1,849,511.6	363.40				Average	
		point275	275	6,348,273.5	1,849,514.8	356.00				Average	
		point274	274	6,348,428.0	1,849,521.6	354.00				Average	
		point273	273	6,348,534.5	1,849,525.8	353.00				Average	
		point272	272	6,348,673.0	1,849,526.8	351.50					
SR-94-EB New IS RT Lane	12.0	point281	281	6,348,200.5	1,849,498.6	363.40				Average	
		point280	280	6,348,274.0	1,849,501.8	356.00				Average	
		point279	279	6,348,428.5	1,849,508.6	354.00				Average	
		point278	278	6,348,535.0	1,849,512.8	353.00				Average	
		point277	277	6,348,673.5	1,849,513.8	351.50					
Campo Rd EB-Wo/Steele CnynNew	12.0	point287	287	6,358,592.0	1,844,908.9	550.00				Average	
		point286	286	6,358,812.5	1,845,094.6	553.00				Average	
		point285	285	6,358,883.0	1,845,150.1	559.00				Average	
		point284	284	6,358,941.0	1,845,185.8	560.00					
Campo Rd WB-Eo/Steele CnynNew	12.0	point293	293	6,359,357.5	1,845,420.4	567.00				Average	
		point292	292	6,359,018.5	1,845,294.0	564.50				Average	
		point291	291	6,358,947.5	1,845,255.8	563.00				Average	

		point290	290	6,358,903.0	1,845,230.8	562.00					
SR-94 WB @ Maxfield	12.0	point311	311	6,369,576.5	1,841,092.2	1,016.00				Average	
		point310	310	6,369,900.5	1,841,051.4	1,026.50				Average	
		point309	309	6,369,983.0	1,841,035.4	1,030.00				Average	
		point308	308	6,370,057.5	1,841,014.2	1,035.00				Average	
		point307	307	6,370,143.5	1,840,978.5	1,037.00				Average	
		point306	306	6,370,211.5	1,840,944.9	1,041.00				Average	
		point305	305	6,370,281.5	1,840,899.8	1,044.00				Average	
		point304	304	6,370,348.0	1,840,845.0	1,045.00				Average	
		point303	303	6,370,415.0	1,840,780.6	1,046.00				Average	
		point302	302	6,370,461.5	1,840,725.2	1,047.00				Average	
		point301	301	6,370,507.5	1,840,655.1	1,047.50				Average	
		point300	300	6,370,554.0	1,840,571.8	1,048.00				Average	
		point299	299	6,370,585.0	1,840,498.0	1,047.00				Average	
		point298	298	6,370,600.5	1,840,446.0	1,045.00				Average	
		point297	297	6,370,608.5	1,840,406.5	1,043.00				Average	
		point296	296	6,370,623.5	1,840,330.4	1,040.00				Average	
		point295	295	6,370,629.5	1,840,232.4	1,037.00					
SR-94 EB @ Maxfield IN Lane	12.0	point332	332	6,370,654.0	1,839,938.9	1,028.00				Average	
		point331	331	6,370,653.0	1,840,229.8	1,037.00					
SR-94 EB @ Maxfield OS Lane	12.0	point350	350	6,370,652.0	1,840,296.9	1,040.00				Average	
		point349	349	6,370,649.0	1,840,342.2	1,043.00				Average	
		point348	348	6,370,629.0	1,840,423.8	1,045.00				Average	
		point346	346	6,370,587.5	1,840,554.1	1,047.00				Average	
		point345	345	6,370,564.5	1,840,601.6	1,048.00				Average	
		point344	344	6,370,538.0	1,840,651.4	1,047.50				Average	
		point343	343	6,370,495.0	1,840,717.8	1,047.00				Average	
		point341	341	6,370,419.0	1,840,809.6	1,046.00				Average	
		point340	340	6,370,360.5	1,840,864.1	1,045.00				Average	
		point339	339	6,370,309.5	1,840,906.2	1,044.00				Average	
		point338	338	6,370,235.5	1,840,954.8	1,041.00				Average	
		point337	337	6,370,171.5	1,840,990.1	1,037.00				Average	
		point335	335	6,370,057.0	1,841,036.8	1,035.00				Average	
		point334	334	6,369,981.5	1,841,056.2	1,030.00				Average	
		point333	333	6,369,897.0	1,841,069.5	1,026.50					
Campo Rd WB-Wo/Steele CnynNew	12.0	point351	351	6,358,903.0	1,845,230.8	562.00				Average	
		point289	289	6,358,849.0	1,845,192.6	559.00				Average	
		point288	288	6,358,636.0	1,845,007.9	549.50					
Campo Rd EB-Eo/Steele CnynNew	12.0	point352	352	6,358,941.0	1,845,185.8	560.00				Average	

		point283	283	6,359,032.0	1,845,238.8	561.50				Average	
		point282	282	6,359,355.5	1,845,363.4	567.00					
Campo Rd/SR-94 EB - E of Steele Cnyn	12.0	point206	206	6,358,915.0	1,845,189.5	560.00	Signal	0.00	100	Average	
		point117	117	6,358,979.0	1,845,226.2	561.00				Average	
		point353	353	6,359,149.0	1,845,299.1	564.00				Average	
		point360	360	6,359,345.0	1,845,373.0	567.00				Average	
		point115	115	6,359,541.0	1,845,446.8	570.00				Average	
		point114	114	6,359,637.5	1,845,473.9	573.00				Average	
		point113	113	6,359,681.5	1,845,483.2	574.50				Average	
		point112	112	6,359,756.5	1,845,492.6	576.00				Average	
		point111	111	6,359,819.0	1,845,495.0	577.00				Average	
		point110	110	6,359,882.5	1,845,494.0	578.00				Average	
		point109	109	6,359,945.0	1,845,488.4	578.50				Average	
		point108	108	6,360,019.5	1,845,478.4	577.50				Average	
		point107	107	6,360,153.5	1,845,452.2	579.60				Average	
		point106	106	6,360,261.5	1,845,430.1	585.00				Average	
		point105	105	6,360,359.5	1,845,404.8	590.00				Average	
		point104	104	6,360,408.0	1,845,389.6	590.00					
SR-94 WB @ Maxfield-2	12.0	point358	358	6,370,629.5	1,840,232.4	1,037.00				Average	
		point294	294	6,370,630.5	1,839,940.6	1,028.00					
SR-94 EB @ Maxfield IN Lane-2	12.0	point359	359	6,370,653.0	1,840,229.8	1,037.00				Average	
		point330	330	6,370,647.0	1,840,287.9	1,040.00				Average	
		point329	329	6,370,640.0	1,840,337.0	1,043.00				Average	
		point328	328	6,370,620.0	1,840,418.5	1,045.00				Average	
		point326	326	6,370,578.5	1,840,549.0	1,047.00				Average	
		point325	325	6,370,555.5	1,840,596.4	1,048.00				Average	
		point324	324	6,370,529.0	1,840,646.1	1,047.50				Average	
		point323	323	6,370,486.0	1,840,712.5	1,047.00				Average	
		point321	321	6,370,410.0	1,840,804.5	1,046.00				Average	
		point320	320	6,370,351.5	1,840,858.9	1,045.00				Average	
		point319	319	6,370,300.5	1,840,901.0	1,044.00				Average	
		point318	318	6,370,226.5	1,840,949.5	1,041.00				Average	
		point317	317	6,370,162.5	1,840,984.9	1,037.00				Average	
		point315	315	6,370,047.5	1,841,031.5	1,035.00				Average	
		point314	314	6,369,972.0	1,841,051.0	1,030.00				Average	
		point313	313	6,369,888.0	1,841,064.4	1,026.50				Average	
		point312	312	6,369,578.0	1,841,106.2	1,016.00					

LDN **9 August 2014**
Louden **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: **SR-94 Intersection Improvements**
RUN: **2035 Build**

Roadway	Points											
Name	Name	No.	Segment									
			Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
SR-94-EB Lane 1	point17	17	1728	55	82	55	58	55	0	0	0	0
	point16	16	1728	55	82	55	58	55	0	0	0	0
	point15	15	864	55	41	55	29	55	0	0	0	0
	point14	14	864	55	41	55	29	55	0	0	0	0
	point13	13										
SR-94-EB Lane 2	point26	26	1728	55	82	55	58	55	0	0	0	0
	point25	25	1728	55	82	55	58	55	0	0	0	0
	point24	24	864	55	41	55	29	55	0	0	0	0
	point23	23	864	55	41	55	29	55	0	0	0	0
	point22	22										
Jamacha Rd/SR-54-WB Lane 2	point37	37	1431	50	68	50	48	50	0	0	0	0
	point36	36	1431	50	68	50	48	50	0	0	0	0
	point35	35	1431	50	68	50	48	50	0	0	0	0
	point34	34										
Jamacha Rd/SR-54-WB Lane 1	point48	48	1431	50	68	50	48	50	0	0	0	0
	point47	47	1431	50	68	50	48	50	0	0	0	0
	point46	46	1431	50	68	50	48	50	0	0	0	0
	point45	45										
SR-94-LTLane	point58	58	0	0	0	0	0	0	0	0	0	0
	point57	57	0	0	0	0	0	0	0	0	0	0
	point56	56	0	0	0	0	0	0	0	0	0	0
	point55	55	0	0	0	0	0	0	0	0	0	0
	point54	54										

Campo Road\SR-94 - SB	point67	67	1807	40	85	40	60	40	0	0	0	0
	point66	66	1807	40	85	40	60	40	0	0	0	0
	point65	65	1807	40	85	40	60	40	0	0	0	0
	point64	64	1807	40	85	40	60	40	0	0	0	0
	point63	63	1807	40	85	40	60	40	0	0	0	0
	point62	62	1807	40	85	40	60	40	0	0	0	0
	point61	61	1807	40	85	40	60	40	0	0	0	0
	point60	60	1807	40	85	40	60	40	0	0	0	0
	point59	59										
Campo Road\SR-94 - NB LT Lane	point71	71	904	40	42	40	30	40	0	0	0	0
	point70	70	904	40	42	40	30	40	0	0	0	0
	point69	69	904	40	42	40	30	40	0	0	0	0
	point68	68										
Roadway10	point82	82	1807	40	85	40	60	40	0	0	0	0
	point81	81	1807	40	85	40	60	40	0	0	0	0
	point80	80	1807	40	85	40	60	40	0	0	0	0
	point79	79	1807	40	85	40	60	40	0	0	0	0
	point78	78	1807	40	85	40	60	40	0	0	0	0
	point77	77	1807	40	85	40	60	40	0	0	0	0
	point76	76	1807	40	85	40	60	40	0	0	0	0
	point75	75	904	40	42	40	30	40	0	0	0	0
	point74	74	904	40	42	40	30	40	0	0	0	0
	point73	73	904	40	42	40	30	40	0	0	0	0
	point72	72										
Campo Rd/SR-94 WB - E of Steele Cnyn	point103	103	1288	45	61	45	43	45	0	0	0	0
	point102	102	1288	45	61	45	43	45	0	0	0	0
	point101	101	1288	45	61	45	43	45	0	0	0	0
	point100	100	1288	45	61	45	43	45	0	0	0	0
	point99	99	1288	45	61	45	43	45	0	0	0	0
	point98	98	1288	45	61	45	43	45	0	0	0	0
	point97	97	1288	45	61	45	43	45	0	0	0	0
	point96	96	1288	45	61	45	43	45	0	0	0	0
	point95	95	1288	45	61	45	43	45	0	0	0	0
	point94	94	1288	45	61	45	43	45	0	0	0	0
	point361	361	644	45	31	45	22	45	0	0	0	0
	point93	93	644	45	31	45	22	45	0	0	0	0

	point92	92										
Campo Rd/SR-94 EB - W of Steele Cnyn	point126	126	1416	45	67	45	47	45	0	0	0	0
	point125	125	1416	45	67	45	47	45	0	0	0	0
	point124	124	1416	45	67	45	47	45	0	0	0	0
	point123	123	1416	45	67	45	47	45	0	0	0	0
	point122	122	1416	45	67	45	47	45	0	0	0	0
	point121	121	1416	45	67	45	47	45	0	0	0	0
	point120	120	1416	45	67	45	47	45	0	0	0	0
	point362	362	708	45	34	45	24	45	0	0	0	0
	point119	119	708	45	34	45	24	45	0	0	0	0
	point118	118										
Steele Cnyn NB	point130	130	341	35	16	35	12	35	0	0	0	0
	point129	129	341	35	16	35	12	35	0	0	0	0
	point128	128	341	35	16	35	12	35	0	0	0	0
	point127	127										
Steele Cnyn SB	point135	135	341	35	16	35	12	35	0	0	0	0
	point134	134	341	35	16	35	12	35	0	0	0	0
	point133	133	341	35	16	35	12	35	0	0	0	0
	point132	132	341	35	16	35	12	35	0	0	0	0
	point131	131										
Campo Rd/SR-94 WB - @ Lyons Valley	point140	140	1116	45	53	45	37	45	0	0	0	0
	point139	139	1348	45	64	45	45	45	0	0	0	0
	point138	138	1348	45	64	45	45	45	0	0	0	0
	point137	137	1348	45	64	45	45	45	0	0	0	0
	point136	136										
Campo Rd/SR-94 EB - @ Lyons Valley	point144	144	1348	45	64	45	45	45	0	0	0	0
	point143	143	1348	45	64	45	45	45	0	0	0	0
	point142	142	1116	45	53	45	37	45	0	0	0	0
	point141	141										
Roadway17	point147	147	22	25	1	25	1	25	0	0	0	0
	point146	146	22	25	1	25	1	25	0	0	0	0
	point145	145										
Lyons Valley Driveway SB	point148	148	22	25	1	25	1	25	0	0	0	0
	point149	149										
Lyons Valley Rd SB	point153	153	312	40	15	40	11	40	0	0	0	0
	point152	152	312	40	15	40	11	40	0	0	0	0

	point151	151	312	40	15	40	11	40	0	0	0	0
	point150	150										
Roadway20	point158	158	312	40	15	40	11	40	0	0	0	0
	point157	157	312	40	15	40	11	40	0	0	0	0
	point156	156	312	40	15	40	11	40	0	0	0	0
	point155	155	312	40	15	40	11	40	0	0	0	0
	point154	154										
Maxfiled Rd WB	point198	198	112	25	6	25	4	25	0	0	0	0
	point199	199										
Maxfiled Rd EB	point200	200	112	25	6	25	4	25	0	0	0	0
	point201	201										
Jamacha Rd/SR-54-EB Lane 2	point202	202	1431	50	68	50	48	50	0	0	0	0
	point21	21	1431	50	68	50	48	50	0	0	0	0
	point20	20	1431	50	68	50	48	50	0	0	0	0
	point19	19	1431	50	68	50	48	50	0	0	0	0
	point18	18										
Jamacha Rd/SR-54-EB Lane 1	point203	203	1431	50	68	50	48	50	0	0	0	0
	point12	12	1431	50	68	50	48	50	0	0	0	0
	point11	11	1431	50	68	50	48	50	0	0	0	0
	point10	10	1431	50	68	50	48	50	0	0	0	0
	point9	9										
Campo Rd/SR-94-WB Lane 1	point204	204	1728	55	82	55	58	55	0	0	0	0
	point44	44	1728	55	82	55	58	55	0	0	0	0
	point43	43	1728	55	82	55	58	55	0	0	0	0
	point42	42	1728	55	82	55	58	55	0	0	0	0
	point41	41	1728	55	82	55	58	55	0	0	0	0
	point40	40	1728	55	82	55	58	55	0	0	0	0
	point39	39	1728	55	82	55	58	55	0	0	0	0
	point38	38										
Campo Road/SR-94-WB Lane 2	point205	205	1728	55	82	55	58	55	0	0	0	0
	point33	33	1728	55	82	55	58	55	0	0	0	0
	point32	32	1728	55	82	55	58	55	0	0	0	0
	point31	31	1728	55	82	55	58	55	0	0	0	0
	point30	30	1728	55	82	55	58	55	0	0	0	0
	point29	29	1728	55	82	55	58	55	0	0	0	0
	point28	28	1728	55	82	55	58	55	0	0	0	0

	point27	27										
Campo Rd/SR-94 WB - W of Steele Cnyn	point207	207	708	45	34	45	24	45	0	0	0	0
	point91	91	708	45	34	45	24	45	0	0	0	0
	point363	363	1416	45	67	45	47	45	0	0	0	0
	point90	90	1416	45	67	45	47	45	0	0	0	0
	point89	89	1416	45	67	45	47	45	0	0	0	0
	point88	88	1416	45	67	45	47	45	0	0	0	0
	point87	87	1416	45	67	45	47	45	0	0	0	0
	point86	86	1416	45	67	45	47	45	0	0	0	0
	point85	85	1416	45	67	45	47	45	0	0	0	0
	point84	84	1416	45	67	45	47	45	0	0	0	0
	point83	83										
Jamacha Blvd SB	point208	208	1007	50	48	50	34	50	0	0	0	0
	point209	209	1007	50	48	50	34	50	0	0	0	0
	point210	210	1007	50	48	50	34	50	0	0	0	0
	point211	211										
Jamacha Blvd NB	point214	214	1007	50	48	50	34	50	0	0	0	0
	point213	213	504	50	24	50	17	50	0	0	0	0
	point212	212										
Jamacha Blvd NB - LT Lane	point215	215	504	50	24	50	17	50	0	0	0	0
	point216	216										
Skyline Driveway Egress	point222	222	21	25	1	25	1	25	0	0	0	0
	point221	221	21	25	1	25	1	25	0	0	0	0
	point220	220	21	25	1	25	1	25	0	0	0	0
	point219	219	21	25	1	0	1	25	0	0	0	0
	point218	218	21	25	1	25	1	25	0	0	0	0
	point217	217										
Skyline Driveway Ingress	point228	228	21	25	1	25	1	25	0	0	0	0
	point227	227	21	25	1	25	1	25	0	0	0	0
	point226	226	21	25	1	25	1	25	0	0	0	0
	point225	225	21	25	1	25	1	25	0	0	0	0
	point224	224	21	25	1	25	1	25	0	0	0	0
	point223	223										
Campo Road EB - E of Jamacha Blvd	point229	229	2576	55	122	55	86	55	0	0	0	0
	point230	230	2576	55	122	55	86	55	0	0	0	0
	point231	231	2576	55	122	55	86	55	0	0	0	0

	point232	232	2576	55	122	55	86	55	0	0	0	0
	point233	233	2576	55	122	55	86	55	0	0	0	0
	point234	234										
Campo Road WB L1- W of Jamacha Blvd	point254	254	1419	55	67	55	47	55	0	0	0	0
	point253	253	1419	55	67	55	47	55	0	0	0	0
	point251	251	1419	55	67	55	47	55	0	0	0	0
	point250	250	1419	55	67	55	47	55	0	0	0	0
	point249	249	1419	55	67	55	47	55	0	0	0	0
	point248	248	1419	55	67	55	47	55	0	0	0	0
	point247	247										
Campo Road WB L2- W of Jamacha Blvd	point268	268	1419	55	67	55	47	55	0	0	0	0
	point267	267	1419	55	67	55	47	55	0	0	0	0
	point265	265	1419	55	67	55	47	55	0	0	0	0
	point264	264	1419	55	67	55	47	55	0	0	0	0
	point263	263	1419	55	67	55	47	55	0	0	0	0
	point262	262										
Campo Road EB - W of Jamacha Blvd	point269	269	2837	55	134	55	94	55	0	0	0	0
	point235	235	2837	55	134	55	94	55	0	0	0	0
	point236	236	2837	55	134	55	94	55	0	0	0	0
	point237	237	2837	55	134	55	94	55	0	0	0	0
	point238	238	2837	55	134	55	94	55	0	0	0	0
	point239	239	2837	55	134	55	94	55	0	0	0	0
	point241	241										
Campo Road WB L1- E of Jamacha Blvd	point270	270	1288	55	61	55	43	55	0	0	0	0
	point246	246	1288	55	61	55	43	55	0	0	0	0
	point245	245	1288	55	61	55	43	55	0	0	0	0
	point244	244	1288	55	61	55	43	55	0	0	0	0
	point243	243	1288	55	61	55	43	55	0	0	0	0
	point242	242										
Campo Road WB L2- E of Jamacha Blvd	point271	271	1288	55	61	55	43	55	0	0	0	0
	point261	261	1288	55	61	55	43	55	0	0	0	0
	point260	260	1288	55	61	55	43	55	0	0	0	0
	point259	259	1288	55	61	55	43	55	0	0	0	0
	point258	258	1288	55	61	55	43	55	0	0	0	0
	point257	257	1288	55	61	55	43	55	0	0	0	0
	point256	256										

SR-94-EB New OS RT Lane	point276	276	864	55	41	55	29	55	0	0	0	0
	point275	275	864	55	41	55	29	55	0	0	0	0
	point274	274	864	55	41	55	29	55	0	0	0	0
	point273	273	864	55	41	55	29	55	0	0	0	0
	point272	272										
SR-94-EB New IS RT Lane	point281	281	864	55	41	55	29	55	0	0	0	0
	point280	280	864	55	41	55	29	55	0	0	0	0
	point279	279	864	55	41	55	29	55	0	0	0	0
	point278	278	864	55	41	55	29	55	0	0	0	0
	point277	277										
Campo Rd EB-Wo/Steele CnynNew	point287	287	708	45	34	45	24	45	0	0	0	0
	point286	286	708	45	34	45	24	45	0	0	0	0
	point285	285	708	45	34	45	24	45	0	0	0	0
	point284	284										
Campo Rd WB-Eo/Steele CnynNew	point293	293	644	45	31	45	22	45	0	0	0	0
	point292	292	644	45	31	45	22	45	0	0	0	0
	point291	291	644	45	31	45	22	45	0	0	0	0
	point290	290										
SR-94 WB @ Maxfield	point311	311	859	45	41	45	29	45	0	0	0	0
	point310	310	859	45	41	45	29	45	0	0	0	0
	point309	309	859	45	41	45	29	45	0	0	0	0
	point308	308	859	45	41	45	29	45	0	0	0	0
	point307	307	859	45	41	45	29	45	0	0	0	0
	point306	306	859	45	41	45	29	45	0	0	0	0
	point305	305	859	45	41	45	29	45	0	0	0	0
	point304	304	859	45	41	45	29	45	0	0	0	0
	point303	303	859	45	41	45	29	45	0	0	0	0
	point302	302	859	45	41	45	29	45	0	0	0	0
	point301	301	859	45	41	45	29	45	0	0	0	0
	point300	300	859	45	41	45	29	45	0	0	0	0
	point299	299	859	45	41	45	29	45	0	0	0	0
	point298	298	859	45	41	45	29	45	0	0	0	0
	point297	297	859	45	41	45	29	45	0	0	0	0
	point296	296	859	45	41	45	29	45	0	0	0	0
	point295	295										
SR-94 EB @ Maxfield IN Lane	point332	332	815	45	39	45	27	45	0	0	0	0

	point331	331										
SR-94 EB @ Maxfield OS Lane	point350	350	430	45	21	45	15	45	0	0	0	0
	point349	349	430	45	21	45	15	45	0	0	0	0
	point348	348	430	45	21	45	15	45	0	0	0	0
	point346	346	430	45	21	45	15	45	0	0	0	0
	point345	345	430	45	21	45	15	45	0	0	0	0
	point344	344	430	45	21	45	15	45	0	0	0	0
	point343	343	430	45	21	45	15	45	0	0	0	0
	point341	341	430	45	21	45	15	45	0	0	0	0
	point340	340	430	45	21	45	15	45	0	0	0	0
	point339	339	430	45	21	45	15	45	0	0	0	0
	point338	338	430	45	21	45	15	45	0	0	0	0
	point337	337	430	45	21	45	15	45	0	0	0	0
	point335	335	430	45	21	45	15	45	0	0	0	0
	point334	334	430	45	21	45	15	45	0	0	0	0
	point333	333										
Campo Rd WB-Wo/Steele CnynNew	point351	351	708	45	34	45	24	45	0	0	0	0
	point289	289	708	45	34	45	24	45	0	0	0	0
	point288	288										
Campo Rd EB-Eo/Steele CnynNew	point352	352	644	45	31	45	22	45	0	0	0	0
	point283	283	644	45	31	45	22	45	0	0	0	0
	point282	282										
Campo Rd/SR-94 EB - E of Steele Cnyn	point206	206	644	45	31	45	22	45	0	0	0	0
	point117	117	644	45	31	45	22	45	0	0	0	0
	point353	353	644	45	31	45	22	45	0	0	0	0
	point360	360	1288	45	61	45	43	45	0	0	0	0
	point115	115	1288	45	61	45	43	45	0	0	0	0
	point114	114	1288	45	61	45	43	45	0	0	0	0
	point113	113	1288	45	61	45	43	45	0	0	0	0
	point112	112	1288	45	61	45	43	45	0	0	0	0
	point111	111	1288	45	61	45	43	45	0	0	0	0
	point110	110	1288	45	61	45	43	45	0	0	0	0
	point109	109	1288	45	61	45	43	45	0	0	0	0
	point108	108	1288	45	61	45	43	45	0	0	0	0
	point107	107	1288	45	61	45	43	45	0	0	0	0
	point106	106	1288	45	61	45	43	45	0	0	0	0

	point105	105	1288	45	61	45	43	45	0	0	0	0
	point104	104										
SR-94 WB @ Maxfield-2	point358	358	815	45	39	45	27	45	0	0	0	0
	point294	294										
SR-94 EB @ Maxfield IN Lane-2	point359	359	859	45	41	45	29	45	0	0	0	0
	point330	330	430	45	21	45	15	45	0	0	0	0
	point329	329	430	45	21	45	15	45	0	0	0	0
	point328	328	430	45	21	45	15	45	0	0	0	0
	point326	326	430	45	21	45	15	45	0	0	0	0
	point325	325	430	45	21	45	15	45	0	0	0	0
	point324	324	430	45	21	45	15	45	0	0	0	0
	point323	323	430	45	21	45	15	45	0	0	0	0
	point321	321	430	45	21	45	15	45	0	0	0	0
	point320	320	430	45	21	45	15	45	0	0	0	0
	point319	319	430	45	21	45	15	45	0	0	0	0
	point318	318	430	45	21	45	15	45	0	0	0	0
	point317	317	430	45	21	45	15	45	0	0	0	0
	point315	315	430	45	21	45	15	45	0	0	0	0
	point314	314	430	45	21	45	15	45	0	0	0	0
	point313	313	859	45	41	45	29	45	0	0	0	0
	point312	312										

LDN 9 August 2014
Louden TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: SR-94 Intersection Improvements
RUN: 2035 Build

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria Existing LAeq1h	Impact Criteria LAeq1h	Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
R-26	1	1	6,345,744.0	1,850,247.0	483.00	4.92	0.00	66	10.0	8.0	Y
R-27	4	1	6,348,136.0	1,849,676.4	371.00	4.92	0.00	72	10.0	8.0	Y
R-28	6	1	6,348,278.0	1,849,691.9	365.00	4.92	0.00	66	10.0	8.0	Y
R-29	7	1	6,348,409.0	1,849,728.8	356.00	4.92	0.00	66	10.0	8.0	Y
R-30	8	1	6,348,496.5	1,849,663.1	356.00	4.92	0.00	66	10.0	8.0	Y
R-31	9	1	6,348,577.0	1,849,681.5	356.00	4.92	0.00	66	10.0	8.0	Y
R-32	10	1	6,348,854.5	1,849,700.2	356.00	4.92	0.00	66	10.0	8.0	Y
R-33	11	1	6,349,069.5	1,849,716.8	353.00	4.92	0.00	66	10.0	8.0	Y
R-34	12	1	6,348,728.0	1,849,184.4	348.00	4.92	0.00	66	10.0	8.0	Y
R-35	13	1	6,348,933.5	1,849,333.9	345.00	4.92	0.00	66	10.0	8.0	Y
R-36	14	1	6,348,988.5	1,849,352.8	345.00	4.92	0.00	66	10.0	8.0	Y
R-37	15	1	6,349,038.0	1,849,246.0	342.00	4.92	0.00	66	10.0	8.0	Y
R-38	19	1	6,349,579.0	1,848,305.0	329.00	4.92	0.00	66	10.0	8.0	Y
R-39	22	1	6,357,703.5	1,844,585.4	532.00	4.92	0.00	66	10.0	8.0	Y
R-40	23	1	6,358,049.0	1,844,722.1	555.00	4.92	0.00	66	10.0	8.0	Y
R-41	24	1	6,357,771.5	1,844,281.5	518.00	4.92	0.00	66	10.0	8.0	Y
R-42	26	1	6,358,683.5	1,844,936.1	555.00	4.92	0.00	66	10.0	8.0	Y
R-43	27	1	6,358,290.0	1,844,908.5	572.00	4.92	0.00	66	10.0	8.0	Y
R-44	28	1	6,358,640.0	1,845,078.5	563.00	4.92	0.00	66	10.0	8.0	Y
R-45	29	1	6,358,827.0	1,845,049.2	555.00	4.92	0.00	66	10.0	8.0	Y
R-46	30	1	6,359,083.0	1,845,176.5	553.00	4.92	0.00	66	10.0	8.0	Y
R-47	31	1	6,358,940.5	1,845,301.5	566.00	4.92	0.00	66	10.0	8.0	Y

R-48	32	1	6,358,935.0	1,845,362.2	568.00	4.92	0.00	66	10.0	8.0	Y
R-49	33	1	6,358,923.0	1,845,479.5	576.50	4.92	0.00	66	10.0	8.0	Y
R-50	34	1	6,359,499.5	1,845,678.0	588.00	4.92	0.00	66	10.0	8.0	Y
R-51	35	1	6,359,786.5	1,845,716.2	590.00	4.92	0.00	66	10.0	8.0	Y
R-52	36	1	6,359,908.0	1,845,755.1	590.00	4.92	0.00	66	10.0	8.0	Y
R-53	38	1	6,367,663.5	1,842,403.4	890.00	4.92	0.00	66	10.0	8.0	Y
R-54	40	1	6,367,853.0	1,842,112.0	890.00	4.92	0.00	66	10.0	8.0	Y
R-55	41	1	6,367,975.0	1,842,298.4	900.00	4.92	0.00	66	10.0	8.0	Y
R-56	42	1	6,370,215.0	1,840,600.0	1,065.00	4.92	0.00	66	10.0	8.0	Y
R-57	44	1	6,370,314.0	1,840,507.1	1,060.00	4.92	0.00	66	10.0	8.0	Y
R-58	45	1	6,370,501.5	1,840,121.6	1,039.00	4.92	0.00	66	10.0	8.0	Y
R-59	46	1	6,370,809.0	1,840,171.1	1,031.00	4.92	0.00	66	10.0	8.0	Y
R-60	47	1	6,370,712.5	1,840,009.6	1,028.00	4.92	0.00	66	10.0	8.0	Y

LDN **9 August 2014**
Louden **TNM 2.5**

INPUT: BARRIERS
PROJECT/CONTRACT: **SR-94 Intersection Improvements**
RUN: **2035 Build**

Barrier Name	Type	Height Min	Height Max	If Wall $ per Unit Area	If Berm $ per Unit Vol.	Top Width	Run:Rise	Add'tnl $ per Unit Length	Points Name	No.	Coordinates (bottom) X	Y	Z	Height at Point	Segment Seg Ht Increment	Perturbs #Up	#Dn	On Struct?	Important Reflections?
		ft	ft	$/sq ft	$/cu yd	ft	ft:ft	$/ft			ft	ft	ft	ft	ft				
TGI Friday's Dinning Wall	W	0.00	99.99	0.00				0.00	point1	1	6,348,965.0	1,849,340.1	345.00	8.00	0.00	0	0		
									point2	2	6,348,973.5	1,849,323.4	345.00	8.00	0.00	0	0		
									point3	3	6,348,944.0	1,849,312.9	345.00	8.00	0.00	0	0		
									point4	4	6,348,931.5	1,849,317.8	345.00	8.00	0.00	0	0		
									point5	5	6,348,901.0	1,849,378.2	345.00	8.00					
Skyline Church Meeting Rooms	W	0.00	99.99	0.00				0.00	point6	6	6,345,628.5	1,850,474.8	483.00	35.00	0.00	0	0		
									point7	7	6,345,804.0	1,850,320.8	483.00	35.00	0.00	0	0		
									point8	8	6,345,748.0	1,850,247.1	483.00	35.00	0.00	0	0		
									point9	9	6,345,570.0	1,850,398.0	483.00	35.00	0.00	0	0		
									point10	10	6,345,628.5	1,850,474.8	483.00	35.00					
Unoccupies House	W	0.00	99.99	0.00				0.00	point11	11	6,348,100.0	1,849,719.1	371.00	14.00	0.00	0	0		
									point12	12	6,348,150.5	1,849,719.1	371.00	14.00	0.00	0	0		
									point13	13	6,348,150.5	1,849,678.9	371.00	14.00	0.00	0	0		
									point14	14	6,348,100.0	1,849,678.9	371.00	14.00	0.00	0	0		
									point15	15	6,348,100.0	1,849,719.1	371.00	14.00					
Car Dealership	W	0.00	99.99	0.00				0.00	point16	16	6,348,282.5	1,849,696.1	365.00	14.00	0.00	0	0		
									point17	17	6,348,324.0	1,849,693.2	365.00	14.00	0.00	0	0		
									point18	18	6,348,322.0	1,849,663.4	365.00	14.00	0.00	0	0		
									point19	19	6,348,280.5	1,849,666.4	365.00	14.00	0.00	0	0		
									point20	20	6,348,282.5	1,849,696.1	365.00	14.00					
Circle K	W	0.00	99.99	0.00				0.00	point21	21	6,348,453.0	1,849,718.0	356.00	20.00	0.00	0	0		
									point22	22	6,348,501.5	1,849,717.5	356.00	20.00	0.00	0	0		
									point23	23	6,348,500.5	1,849,663.2	356.00	20.00	0.00	0	0		
									point24	24	6,348,452.5	1,849,663.9	356.00	20.00	0.00	0	0		
									point25	25	6,348,453.0	1,849,718.0	356.00	20.00					
Gas Station Garage	W	0.00	99.99	0.00				0.00	point26	26	6,348,510.0	1,849,806.6	358.00	20.00	0.00	0	0		
									point27	27	6,348,588.5	1,849,806.6	358.00	20.00	0.00	0	0		
									point28	28	6,348,588.5	1,849,770.9	358.00	20.00	0.00	0	0		
									point29	29	6,348,510.0	1,849,770.9	358.00	20.00	0.00	0	0		
									point30	30	6,348,510.0	1,849,806.6	358.00	20.00					
Burger King	W	0.00	99.99	0.00				0.00	point31	31	6,348,771.0	1,849,769.1	356.00	20.00	0.00	0	0		
									point32	32	6,348,813.0	1,849,673.1	356.00	20.00	0.00	0	0		
									point33	33	6,348,849.5	1,849,689.1	356.00	20.00	0.00	0	0		
									point34	34	6,348,808.0	1,849,785.1	356.00	20.00	0.00	0	0		
									point35	35	6,348,771.0	1,849,769.1	356.00	20.00					

Animal Hospital	W	0.00	99.99	0.00				0.00	point36	36	6,349,077.0	1,849,724.6	353.00	20.00	0.00	0	0		
									point37	37	6,349,044.0	1,849,795.2	353.00	20.00	0.00	0	0		
									point38	38	6,348,984.0	1,849,767.4	353.00	20.00	0.00	0	0		
									point39	39	6,349,017.0	1,849,696.9	353.00	20.00	0.00	0	0		
									point40	40	6,349,077.0	1,849,724.6	353.00	20.00					
TGI Friday's	W	0.00	99.99	0.00				0.00	point41	41	6,348,898.5	1,849,454.5	345.00	20.00	0.00	0	0		
									point42	42	6,348,996.0	1,849,388.1	345.00	20.00	0.00	0	0		
									point43	43	6,348,962.0	1,849,338.1	345.00	20.00	0.00	0	0		
									point44	44	6,348,864.5	1,849,404.5	345.00	20.00	0.00	0	0		
									point45	45	6,348,898.5	1,849,454.5	345.00	20.00					
Bank/Retail	W	0.00	99.99	0.00				0.00	point46	46	6,348,913.5	1,849,245.5	342.00	20.00	0.00	0	0		
									point47	47	6,349,010.0	1,849,286.2	342.00	20.00	0.00	0	0		
									point48	48	6,349,051.0	1,849,189.0	342.00	20.00	0.00	0	0		
									point49	49	6,348,954.5	1,849,148.2	342.00	20.00	0.00	0	0		
									point50	50	6,348,913.5	1,849,245.5	342.00	20.00					
YMCA	W	0.00	99.99	0.00				0.00	point51	51	6,349,278.0	1,848,361.8	329.00	36.00	0.00	0	0		
									point52	52	6,349,370.0	1,848,376.2	329.00	36.00	0.00	0	0		
									point53	53	6,349,384.0	1,848,282.6	329.00	36.00	0.00	0	0		
									point54	54	6,349,401.5	1,848,285.8	329.00	36.00	0.00	0	0		
									point55	55	6,349,410.5	1,848,246.8	329.00	36.00	0.00	0	0		
									point56	56	6,349,395.0	1,848,243.5	329.00	36.00	0.00	0	0		
									point57	57	6,349,398.5	1,848,225.0	329.00	36.00	0.00	0	0		
									point58	58	6,349,413.5	1,848,226.1	329.00	36.00	0.00	0	0		
									point59	59	6,349,434.0	1,848,125.2	329.00	36.00	0.00	0	0		
									point60	60	6,349,500.5	1,848,145.9	329.00	36.00	0.00	0	0		
									point61	61	6,349,543.5	1,848,143.6	329.00	36.00	0.00	0	0		
									point62	62	6,349,568.5	1,848,093.8	329.00	36.00	0.00	0	0		
									point63	63	6,349,511.0	1,847,967.9	329.00	36.00	0.00	0	0		
									point64	64	6,349,319.0	1,847,935.4	329.00	36.00	0.00	0	0		
									point65	65	6,349,307.0	1,848,033.0	329.00	36.00	0.00	0	0		
									point66	66	6,349,318.0	1,848,040.6	329.00	36.00	0.00	0	0		
									point67	67	6,349,297.5	1,848,161.0	329.00	36.00	0.00	0	0		
									point68	68	6,349,307.5	1,848,161.9	329.00	36.00	0.00	0	0		
									point69	69	6,349,292.0	1,848,257.6	329.00	36.00	0.00	0	0		
									point70	70	6,349,298.5	1,848,259.8	329.00	36.00	0.00	0	0		
									point71	71	6,349,278.0	1,848,361.8	329.00	36.00					
3155 Fair Acres Lane	W	0.00	99.99	0.00				0.00	point72	72	6,357,679.0	1,844,660.2	532.00	14.00	0.00	0	0		
									point73	73	6,357,751.5	1,844,663.1	532.00	14.00	0.00	0	0		
									point74	74	6,357,753.5	1,844,613.4	532.00	14.00	0.00	0	0		
									point75	75	6,357,681.0	1,844,610.4	532.00	14.00	0.00	0	0		
									point76	76	6,357,679.0	1,844,660.2	532.00	14.00					
12786 Campo Road	W	0.00	99.99	0.00				0.00	point77	77	6,357,805.5	1,844,669.8	536.00	14.00	0.00	0	0		
									point78	78	6,357,884.5	1,844,673.9	536.00	14.00	0.00	0	0		
									point79	79	6,357,887.0	1,844,624.5	536.00	14.00	0.00	0	0		
									point80	80	6,357,808.0	1,844,620.2	536.00	14.00	0.00	0	0		
									point81	81	6,357,805.5	1,844,669.8	536.00	14.00					
3140 Florence Terrace	W	0.00	99.99	0.00				0.00	point82	82	6,357,800.5	1,844,340.6	518.00	14.00	0.00	0	0		
									point83	83	6,357,889.0	1,844,356.0	518.00	14.00	0.00	0	0		
									point84	84	6,357,897.0	1,844,310.9	518.00	14.00	0.00	0	0		

									point85	85	6,357,808.5	1,844,295.5	518.00	14.00	0.00	0	0			
									point86	86	6,357,800.5	1,844,340.6	518.00	14.00						
3113 Pine Lane	W	0.00	99.99	0.00				0.00	point87	87	6,357,989.5	1,844,752.2	555.00	14.00	0.00	0	0			
									point88	88	6,358,016.0	1,844,754.1	555.00	14.00	0.00	0	0			
									point89	89	6,358,016.0	1,844,740.8	555.00	14.00	0.00	0	0			
									point90	90	6,358,040.5	1,844,741.4	555.00	14.00	0.00	0	0			
									point91	91	6,358,043.0	1,844,707.2	555.00	14.00	0.00	0	0			
									point92	92	6,357,993.0	1,844,703.6	555.00	14.00	0.00	0	0			
									point93	93	6,357,989.5	1,844,752.2	555.00	14.00						
12856 Campo Road	W	0.00	99.99	0.00				0.00	point94	94	6,358,360.5	1,844,952.8	572.00	14.00	0.00	0	0			
									point95	95	6,358,332.5	1,844,935.4	572.00	14.00	0.00	0	0			
									point96	96	6,358,319.5	1,844,906.8	572.00	14.00	0.00	0	0			
									point97	97	6,358,307.0	1,844,909.5	572.00	14.00	0.00	0	0			
									point98	98	6,358,301.5	1,844,891.4	572.00	14.00	0.00	0	0			
									point99	99	6,358,314.5	1,844,888.0	572.00	14.00	0.00	0	0			
									point100	100	6,358,307.0	1,844,847.4	572.00	14.00	0.00	0	0			
									point101	101	6,358,324.0	1,844,819.9	572.00	14.00	0.00	0	0			
									point102	102	6,358,346.5	1,844,834.4	572.00	14.00	0.00	0	0			
									point103	103	6,358,337.5	1,844,849.0	572.00	14.00	0.00	0	0			
									point104	104	6,358,342.5	1,844,867.2	572.00	14.00	0.00	0	0			
									point105	105	6,358,356.5	1,844,863.4	572.00	14.00	0.00	0	0			
									point106	106	6,358,363.5	1,844,885.5	572.00	14.00	0.00	0	0			
									point107	107	6,358,359.0	1,844,889.4	572.00	14.00	0.00	0	0			
									point108	108	6,358,360.5	1,844,895.5	572.00	14.00	0.00	0	0			
									point109	109	6,358,354.5	1,844,902.9	572.00	14.00	0.00	0	0			
									point110	110	6,358,347.5	1,844,902.9	572.00	14.00	0.00	0	0			
									point111	111	6,358,352.5	1,844,916.8	572.00	14.00	0.00	0	0			
									point112	112	6,358,376.0	1,844,928.0	572.00	14.00	0.00	0	0			
									point113	113	6,358,360.5	1,844,952.8	572.00	14.00						
Ranch Feed and Supply Store	W	0.00	99.99	0.00				0.00	point114	114	6,358,588.5	1,845,165.4	563.00	14.00	0.00	0	0			
									point115	115	6,358,592.5	1,845,051.1	563.00	14.00	0.00	0	0			
									point116	116	6,358,631.5	1,845,053.8	563.00	14.00	0.00	0	0			
									point117	117	6,358,624.5	1,845,172.6	563.00	14.00	0.00	0	0			
									point118	118	6,358,587.0	1,845,170.1	563.00	14.00						
Ranch Feed and Supply Store Barn	W	0.00	99.99	0.00				0.00	point119	119	6,358,673.5	1,845,154.1	563.00	20.00	0.00	0	0			
									point120	120	6,358,701.0	1,845,173.6	563.00	20.00	0.00	0	0			
									point121	121	6,358,730.5	1,845,132.0	563.00	20.00	0.00	0	0			
									point122	122	6,358,703.0	1,845,112.5	563.00	20.00	0.00	0	0			
									point123	123	6,358,673.5	1,845,154.1	563.00	20.00						
Steele Canyon Produce	W	0.00	99.99	0.00				0.00	point124	124	6,358,670.0	1,844,924.1	555.00	14.00	0.00	0	0			
									point125	125	6,358,776.5	1,845,006.0	555.00	14.00	0.00	0	0			
									point126	126	6,358,795.5	1,844,980.9	555.00	14.00	0.00	0	0			
									point127	127	6,358,726.0	1,844,932.2	555.00	14.00	0.00	0	0			
									point128	128	6,358,732.0	1,844,924.4	555.00	14.00	0.00	0	0			
									point129	129	6,358,691.5	1,844,894.0	555.00	14.00	0.00	0	0			
									point130	130	6,358,670.0	1,844,924.1	555.00	14.00						
Greek Sombrer	W	0.00	99.99	0.00				0.00	point131	131	6,358,901.0	1,845,085.5	555.00	14.00	0.00	0	0			
									point132	132	6,358,928.5	1,845,042.9	555.00	14.00	0.00	0	0			
									point133	133	6,358,860.0	1,844,998.6	555.00	14.00	0.00	0	0			

									point134	134	6,358,832.5	1,845,041.2	555.00	14.00	0.00	0	0			
									point135	135	6,358,901.0	1,845,085.5	555.00	14.00						
12931 Highway 94	W	0.00	99.99	0.00				0.00	point136	136	6,359,100.0	1,845,216.6	553.00	14.00	0.00	0	0			
									point137	137	6,359,043.0	1,845,196.1	553.00	14.00	0.00	0	0			
									point138	138	6,359,053.0	1,845,162.9	553.00	14.00	0.00	0	0			
									point139	139	6,359,076.5	1,845,169.8	553.00	14.00	0.00	0	0			
									point140	140	6,359,071.0	1,845,180.0	553.00	14.00	0.00	0	0			
									point141	141	6,359,107.0	1,845,190.9	553.00	14.00	0.00	0	0			
									point142	142	6,359,100.0	1,845,216.6	553.00	14.00						
Retail Services Center	W	0.00	99.99	0.00				0.00	point143	143	6,358,870.5	1,845,559.5	576.50	20.00	0.00	0	0			
									point144	144	6,358,991.5	1,845,576.4	576.50	20.00	0.00	0	0			
									point145	145	6,358,991.5	1,845,566.8	576.50	20.00	0.00	0	0			
									point146	146	6,359,091.5	1,845,578.0	576.50	20.00	0.00	0	0			
									point147	147	6,359,093.5	1,845,569.4	576.50	20.00	0.00	0	0			
									point148	148	6,359,171.5	1,845,578.0	576.50	20.00	0.00	0	0			
									point149	149	6,359,178.5	1,845,522.5	576.50	20.00	0.00	0	0			
									point150	150	6,358,880.5	1,845,485.1	576.50	20.00	0.00	0	0			
									point151	151	6,358,870.5	1,845,559.5	576.50	20.00						
7-11	W	0.00	99.99	0.00				0.00	point152	152	6,358,920.0	1,845,423.2	568.00	20.00	0.00	0	0			
									point153	153	6,359,003.5	1,845,433.2	568.00	20.00	0.00	0	0			
									point154	154	6,359,009.5	1,845,383.0	568.00	20.00	0.00	0	0			
									point155	155	6,358,926.0	1,845,372.9	568.00	20.00	0.00	0	0			
									point156	156	6,358,920.0	1,845,423.2	568.00	20.00						
3215 Vis Las Faldas	W	0.00	99.99	0.00				0.00	point157	157	6,359,412.5	1,845,659.6	588.00	14.00	0.00	0	0			
									point158	158	6,359,466.0	1,845,662.0	588.00	14.00	0.00	0	0			
									point159	159	6,359,466.0	1,845,671.1	588.00	14.00	0.00	0	0			
									point160	160	6,359,495.0	1,845,670.6	588.00	14.00	0.00	0	0			
									point161	161	6,359,495.0	1,845,663.8	588.00	14.00	0.00	0	0			
									point162	162	6,359,526.5	1,845,665.9	588.00	14.00	0.00	0	0			
									point163	163	6,359,529.5	1,845,628.5	588.00	14.00	0.00	0	0			
									point164	164	6,359,412.5	1,845,621.5	588.00	14.00	0.00	0	0			
									point165	165	6,359,410.0	1,845,658.9	588.00	14.00						
13004 Highway 94	W	0.00	99.99	0.00				0.00	point166	166	6,359,848.5	1,845,765.5	590.00	14.00	0.00	0	0			
									point167	167	6,359,794.5	1,845,764.9	590.00	14.00	0.00	0	0			
									point168	168	6,359,795.5	1,845,689.4	590.00	14.00	0.00	0	0			
									point169	169	6,359,849.5	1,845,690.0	590.00	14.00	0.00	0	0			
									point170	170	6,359,848.5	1,845,765.5	590.00	14.00						
13012 Highway 94	W	0.00	99.99	0.00				0.00	point171	171	6,359,888.5	1,845,749.9	590.00	14.00	0.00	0	0			
									point172	172	6,359,937.5	1,845,753.6	590.00	14.00	0.00	0	0			
									point173	173	6,359,935.5	1,845,747.2	590.00	14.00	0.00	0	0			
									point174	174	6,359,959.0	1,845,749.0	590.00	14.00	0.00	0	0			
									point175	175	6,359,960.5	1,845,721.4	590.00	14.00	0.00	0	0			
									point176	176	6,359,906.5	1,845,716.1	590.00	14.00	0.00	0	0			
									point177	177	6,359,907.5	1,845,713.0	590.00	14.00	0.00	0	0			
									point178	178	6,359,888.5	1,845,711.2	590.00	14.00	0.00	0	0			
									point179	179	6,359,887.0	1,845,750.0	590.00	14.00						
Commercial Offices	W	0.00	99.99	0.00				0.00	point185	185	6,367,637.5	1,842,429.2	890.00	14.00	0.00	0	0			
									point186	186	6,367,688.5	1,842,358.5	890.00	14.00	0.00	0	0			
									point187	187	6,367,669.0	1,842,344.4	890.00	14.00	0.00	0	0			

									point188	188	6,367,618.0	1,842,415.1	890.00	14.00	0.00	0	0			
									point189	189	6,367,637.5	1,842,429.2	890.00	14.00						
Taproot Tot Daycare	W	0.00	99.99	0.00				0.00	point190	190	6,367,801.5	1,842,181.6	890.00	14.00	0.00	0	0			
									point191	191	6,367,861.0	1,842,152.6	890.00	14.00	0.00	0	0			
									point192	192	6,367,831.5	1,842,091.9	890.00	14.00	0.00	0	0			
									point193	193	6,367,772.0	1,842,120.9	890.00	14.00	0.00	0	0			
									point194	194	6,367,801.5	1,842,181.6	890.00	14.00						
Real Estate Office	W	0.00	99.99	0.00				0.00	point195	195	6,367,939.5	1,842,315.2	900.00	14.00	0.00	0	0			
									point196	196	6,367,971.0	1,842,313.9	900.00	14.00	0.00	0	0			
									point197	197	6,367,969.0	1,842,275.8	900.00	14.00	0.00	0	0			
									point198	198	6,367,938.0	1,842,277.1	900.00	14.00	0.00	0	0			
									point199	199	6,367,939.5	1,842,315.2	900.00	14.00						
13925 Campo Road	W	0.00	99.99	0.00				0.00	point200	200	6,370,323.5	1,840,540.8	1,060.00	14.00	0.00	0	0			
									point201	201	6,370,370.0	1,840,534.2	1,060.00	14.00	0.00	0	0			
									point202	202	6,370,362.0	1,840,478.5	1,060.00	14.00	0.00	0	0			
									point203	203	6,370,316.0	1,840,485.0	1,060.00	14.00	0.00	0	0			
									point204	204	6,370,323.5	1,840,540.8	1,060.00	14.00						
13925 Campo Road B2	W	0.00	99.99	0.00				0.00	point205	205	6,370,337.5	1,840,462.0	1,060.00	14.00	0.00	0	0			
									point206	206	6,370,330.5	1,840,419.6	1,060.00	14.00	0.00	0	0			
									point207	207	6,370,358.0	1,840,414.9	1,060.00	14.00	0.00	0	0			
									point208	208	6,370,365.0	1,840,457.4	1,060.00	14.00	0.00	0	0			
									point209	209	6,370,337.5	1,840,462.0	1,060.00	14.00						
US Post Office	W	0.00	99.99	0.00				0.00	point210	210	6,370,485.0	1,840,193.9	1,039.00	14.00	0.00	0	0			
									point211	211	6,370,486.0	1,840,060.0	1,039.00	14.00	0.00	0	0			
									point212	212	6,370,421.0	1,840,059.5	1,039.00	14.00	0.00	0	0			
									point213	213	6,370,420.0	1,840,193.2	1,039.00	14.00	0.00	0	0			
									point214	214	6,370,485.0	1,840,193.9	1,039.00	14.00						
Office Commercial Bldg 2	W	0.00	99.99	0.00				0.00	point215	215	6,370,486.5	1,840,002.6	1,034.00	30.00	0.00	0	0			
									point216	216	6,370,536.5	1,840,001.5	1,034.00	30.00	0.00	0	0			
									point217	217	6,370,534.0	1,839,892.1	1,034.00	30.00	0.00	0	0			
									point218	218	6,370,484.0	1,839,893.2	1,034.00	30.00	0.00	0	0			
									point219	219	6,370,486.5	1,840,002.6	1,034.00	30.00						
Wharehouse/Polebarn	W	0.00	99.99	0.00				0.00	point220	220	6,370,736.0	1,840,219.4	1,031.00	20.00	0.00	0	0			
									point221	221	6,370,788.5	1,840,219.0	1,031.00	20.00	0.00	0	0			
									point222	222	6,370,788.0	1,840,120.6	1,031.00	20.00	0.00	0	0			
									point223	223	6,370,735.5	1,840,120.9	1,031.00	20.00	0.00	0	0			
									point224	224	6,370,736.0	1,840,219.4	1,031.00	20.00						
Jamul Feed and Supply Barn	W	0.00	99.99	0.00				0.00	point225	225	6,370,724.0	1,840,077.6	1,028.00	20.00	0.00	0	0			
									point226	226	6,370,788.0	1,840,078.6	1,028.00	20.00	0.00	0	0			
									point227	227	6,370,788.5	1,840,044.8	1,028.00	20.00	0.00	0	0			
									point228	228	6,370,724.5	1,840,043.9	1,028.00	20.00	0.00	0	0			
									point229	229	6,370,724.0	1,840,077.6	1,028.00	20.00						
Jamul Feed and Supply Store	W	0.00	99.99	0.00				0.00	point230	230	6,370,716.5	1,840,025.6	1,028.00	14.00	0.00	0	0			
									point231	231	6,370,751.0	1,840,027.6	1,028.00	14.00	0.00	0	0			
									point232	232	6,370,752.5	1,840,001.0	1,028.00	14.00	0.00	0	0			
									point233	233	6,370,718.0	1,839,999.0	1,028.00	14.00	0.00	0	0			
									point234	234	6,370,716.5	1,840,025.6	1,028.00	14.00						

LDN			9 August 2014	
Louden			TNM 2.5	
INPUT: TERRAIN LINES				
PROJECT/CONTRACT:	SR-94 Intersection Improvements			
RUN:	2035 Build			
Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
<< This table is empty >>				

		point214	214	6,371,054.5	1,837,006.9	938.00				Average	
		point215	215	6,371,120.0	1,836,930.5	935.00				Average	
		point216	216	6,371,261.5	1,836,788.8	931.50				Average	
		point217	217	6,371,337.5	1,836,723.4	930.50				Average	
		point218	218	6,371,643.5	1,836,465.8	919.00				Average	
		point219	219	6,371,860.0	1,836,259.2	901.00					
Alt_1_SB_Lane-2-2	12.0	point251	251	6,371,860.0	1,836,259.2	901.00				Average	
		point220	220	6,371,991.0	1,836,108.9	891.00				Average	
		point221	221	6,372,111.5	1,835,949.4	883.00				Average	
		point222	222	6,372,287.5	1,835,706.6	868.00				Average	
		point223	223	6,372,587.5	1,835,306.2	848.00				Average	
		point224	224	6,372,900.5	1,834,916.4	831.00				Average	
		point225	225	6,373,134.0	1,834,632.2	824.00					
Alt_1_NB_Lane-2-2	12.0	point252	252	6,371,869.0	1,836,267.5	901.00				Average	
		point237	237	6,371,651.5	1,836,474.8	919.00				Average	
		point236	236	6,371,345.5	1,836,732.5	930.50				Average	
		point235	235	6,371,269.5	1,836,797.5	931.50				Average	
		point234	234	6,371,128.5	1,836,938.6	935.00				Average	
		point233	233	6,371,064.0	1,837,014.4	938.00				Average	
		point232	232	6,370,947.0	1,837,175.8	941.00				Average	
		point231	231	6,370,848.0	1,837,348.4	947.00				Average	
		point249	249	6,370,734.0	1,837,624.8	955.00					

Ldn Consulting **8 August 2014**
Ldn Consulting **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: **SR 94 - Jamul Reservation Access**
RUN: **Alternative 1 - 2035**

Roadway	Points											
Name	Name	No.	Segment									
			Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
SR-94 SB North of Melody Rd	point1	1	716	45	34	45	24	45	0	0	0	0
	point2	2	716	45	34	45	24	45	0	0	0	0
	point3	3										
SR-94 NB South of Melody Rd	point102	102	629	45	30	45	21	45	0	0	0	0
	point101	101	629	45	30	45	21	45	0	0	0	0
	point100	100	629	45	30	45	21	45	0	0	0	0
	point99	99	629	45	30	45	21	45	0	0	0	0
	point98	98	629	45	30	45	21	45	0	0	0	0
	point97	97	629	45	30	45	21	45	0	0	0	0
	point96	96										
Melody Rd WB West of SR-94	point103	103	110	30	5	30	4	30	0	0	0	0
	point104	104	110	30	5	30	4	30	0	0	0	0
	point105	105	110	30	5	30	4	30	0	0	0	0
	point106	106	110	30	5	30	4	30	0	0	0	0
	point107	107	110	30	5	30	4	30	0	0	0	0
	point108	108	110	30	5	30	4	30	0	0	0	0
	point109	109	110	30	5	30	4	30	0	0	0	0
	point110	110	110	30	5	30	4	30	0	0	0	0
	point111	111	110	30	5	30	4	30	0	0	0	0
	point112	112	110	30	5	30	4	30	0	0	0	0
	point113	113	110	30	5	30	4	30	0	0	0	0
	point114	114	110	30	5	30	4	30	0	0	0	0
	point115	115	110	30	5	30	4	30	0	0	0	0

	point116	116	110	30	5	30	4	30	0	0	0	0
	point117	117	110	30	5	30	4	30	0	0	0	0
	point118	118	110	30	5	30	4	30	0	0	0	0
	point119	119	110	30	5	30	4	30	0	0	0	0
	point120	120	110	30	5	30	4	30	0	0	0	0
	point121	121										
Melody Rd EB West of SR-94	point140	140	110	30	5	30	4	30	0	0	0	0
	point139	139	110	30	5	30	4	30	0	0	0	0
	point138	138	110	30	5	30	4	30	0	0	0	0
	point137	137	110	30	5	30	4	30	0	0	0	0
	point136	136	110	30	5	30	4	30	0	0	0	0
	point135	135	110	30	5	30	4	30	0	0	0	0
	point134	134	110	30	5	30	4	30	0	0	0	0
	point133	133	110	30	5	30	4	30	0	0	0	0
	point132	132	110	30	5	30	4	30	0	0	0	0
	point131	131	110	30	5	30	4	30	0	0	0	0
	point130	130	110	30	5	30	4	30	0	0	0	0
	point129	129	110	30	5	30	4	30	0	0	0	0
	point128	128	110	30	5	30	4	30	0	0	0	0
	point127	127	110	30	5	30	4	30	0	0	0	0
	point126	126	110	30	5	30	4	30	0	0	0	0
	point125	125	110	30	5	30	4	30	0	0	0	0
	point124	124	110	30	5	30	4	30	0	0	0	0
	point123	123	110	30	5	30	4	30	0	0	0	0
	point122	122										
Melody Rd WB East of SR-94	point141	141	24	30	1	30	1	30	0	0	0	0
	point142	142	24	30	1	30	1	30	0	0	0	0
	point143	143	24	30	1	30	1	30	0	0	0	0
	point144	144	24	30	1	30	1	30	0	0	0	0
	point145	145	24	30	1	30	1	30	0	0	0	0
	point146	146	24	30	1	30	1	30	0	0	0	0
	point147	147	24	30	1	30	1	30	0	0	0	0
	point148	148	24	30	1	30	1	30	0	0	0	0
	point149	149	24	30	1	30	1	30	0	0	0	0
	point150	150	24	30	1	30	1	30	0	0	0	0
	point151	151	24	30	1	30	1	30	0	0	0	0

	point152	152	24	30	1	30	1	30	0	0	0	0
	point153	153	24	30	1	30	1	30	0	0	0	0
	point154	154	24	30	1	30	1	30	0	0	0	0
	point155	155	24	30	1	30	1	30	0	0	0	0
	point156	156	24	30	1	30	1	30	0	0	0	0
	point157	157										
Melody Rd EB East of SR-94	point174	174	24	25	1	25	1	25	0	0	0	0
	point173	173	24	25	1	25	1	25	0	0	0	0
	point172	172	24	25	1	25	1	25	0	0	0	0
	point171	171	24	25	1	25	1	25	0	0	0	0
	point170	170	24	25	1	25	1	25	0	0	0	0
	point169	169	24	25	1	25	1	25	0	0	0	0
	point168	168	24	25	1	25	1	25	0	0	0	0
	point167	167	24	25	1	25	1	25	0	0	0	0
	point166	166	24	25	1	25	1	25	0	0	0	0
	point165	165	24	25	1	25	1	25	0	0	0	0
	point164	164	24	25	1	25	1	25	0	0	0	0
	point163	163	24	25	1	25	1	25	0	0	0	0
	point162	162	24	25	1	25	1	25	0	0	0	0
	point161	161	24	25	1	25	1	25	0	0	0	0
	point160	160	24	25	1	25	1	25	0	0	0	0
	point159	159	24	25	1	25	1	25	0	0	0	0
	point158	158										
Peacful Valley WB East of SR-94	point189	189	0	0	0	0	0	0	0	0	0	0
	point188	188	0	0	0	0	0	0	0	0	0	0
	point187	187	0	0	0	0	0	0	0	0	0	0
	point186	186	0	0	0	0	0	0	0	0	0	0
	point185	185	0	0	0	0	0	0	0	0	0	0
	point184	184	0	0	0	0	0	0	0	0	0	0
	point183	183	0	0	0	0	0	0	0	0	0	0
	point182	182	0	0	0	0	0	0	0	0	0	0
	point181	181	0	0	0	0	0	0	0	0	0	0
	point180	180	0	0	0	0	0	0	0	0	0	0
	point179	179	0	0	0	0	0	0	0	0	0	0
	point178	178	0	0	0	0	0	0	0	0	0	0
	point177	177	0	0	0	0	0	0	0	0	0	0

	point176	176	0	0	0	0	0	0	0	0	0	0
	point175	175										
Peacful Valley EB East of SR-94	point191	191	0	0	0	0	0	0	0	0	0	0
	point192	192	0	0	0	0	0	0	0	0	0	0
	point193	193	0	0	0	0	0	0	0	0	0	0
	point194	194	0	0	0	0	0	0	0	0	0	0
	point195	195	0	0	0	0	0	0	0	0	0	0
	point196	196	0	0	0	0	0	0	0	0	0	0
	point197	197	0	0	0	0	0	0	0	0	0	0
	point198	198	0	0	0	0	0	0	0	0	0	0
	point199	199	0	0	0	0	0	0	0	0	0	0
	point200	200	0	0	0	0	0	0	0	0	0	0
	point201	201	0	0	0	0	0	0	0	0	0	0
	point202	202	0	0	0	0	0	0	0	0	0	0
	point203	203	0	0	0	0	0	0	0	0	0	0
	point204	204	0	0	0	0	0	0	0	0	0	0
	point205	205										
Alt_1_SB_Lane	point207	207	716	45	34	45	24	45	0	0	0	0
	point208	208	716	45	34	45	24	45	0	0	0	0
	point209	209	716	45	34	45	24	45	0	0	0	0
	point210	210	716	45	34	45	24	45	0	0	0	0
	point211	211										
Alt_1_NB_Lane	point230	230	716	45	34	45	24	45	0	0	0	0
	point229	229	716	45	34	45	24	45	0	0	0	0
	point228	228	716	45	34	45	24	45	0	0	0	0
	point227	227	716	45	34	45	24	45	0	0	0	0
	point226	226										
SR-94 NB North of Melody Rd-2	point245	245	716	45	34	45	24	45	0	0	0	0
	point15	15	716	45	34	45	24	45	0	0	0	0
	point14	14										
SR-94 SB South of Melody Rd-2	point247	247	629	45	30	45	21	45	0	0	0	0
	point59	59	629	45	30	45	21	45	0	0	0	0
	point60	60	629	45	30	45	21	45	0	0	0	0
	point61	61	629	45	30	45	21	45	0	0	0	0
	point62	62	629	45	30	45	21	45	0	0	0	0
	point63	63	629	45	30	45	21	45	0	0	0	0

	point64	64										
Alt_1_NB_Lane-2	point244	244	629	45	30	45	21	45	0	0	0	0
	point243	243	629	45	30	45	21	45	0	0	0	0
	point242	242	629	45	30	45	21	45	0	0	0	0
	point241	241	629	45	30	45	21	45	0	0	0	0
	point240	240	629	45	30	45	21	45	0	0	0	0
	point239	239	629	45	30	45	21	45	0	0	0	0
	point238	238										
Alt_1_SB_Lane-2	point250	250	742	45	35	45	25	45	0	0	0	0
	point212	212	742	45	35	45	25	25	0	0	0	0
	point213	213	742	45	35	45	25	45	0	0	0	0
	point214	214	742	45	35	45	25	45	0	0	0	0
	point215	215	742	45	35	45	25	45	0	0	0	0
	point216	216	742	45	35	45	25	45	0	0	0	0
	point217	217	742	45	35	45	25	45	0	0	0	0
	point218	218	742	45	35	45	25	45	0	0	0	0
	point219	219										
Alt_1_SB_Lane-2-2	point251	251	629	45	30	45	21	45	0	0	0	0
	point220	220	629	45	30	45	21	45	0	0	0	0
	point221	221	629	45	30	45	21	45	0	0	0	0
	point222	222	629	45	30	45	21	45	0	0	0	0
	point223	223	629	45	30	45	21	45	0	0	0	0
	point224	224	629	45	30	45	21	45	0	0	0	0
	point225	225										
Alt_1_NB_Lane-2-2	point252	252	742	45	35	45	25	45	0	0	0	0
	point237	237	742	45	35	45	25	45	0	0	0	0
	point236	236	742	45	35	45	25	45	0	0	0	0
	point235	235	742	45	35	45	25	45	0	0	0	0
	point234	234	742	45	35	45	25	45	0	0	0	0
	point233	233	742	45	35	45	25	45	0	0	0	0
	point232	232	742	45	35	45	25	45	0	0	0	0
	point231	231	742	45	35	45	25	45	0	0	0	0
	point249	249										

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INPUT: RECEIVERS
PROJECT/CONTRACT: SR 94 - Jamul Reservation Access
RUN: Alternative 1 - 2035

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria Existing LAeq1h	Impact Criteria LAeq1h	Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
R-1 - 13967 Highway 94	1	1	6,370,558.5	1,839,906.5	1,034.00	4.92	0.00	66	10.0	8.0	Y
R-2 - 13975 Highway 94	2	1	6,370,532.5	1,839,782.0	1,030.00	4.92	0.00	66	10.0	8.0	Y
R-3 - 14022 Hillside Dr	3	1	6,370,971.5	1,839,692.2	1,031.00	4.92	0.00	66	10.0	8.0	Y
R-4 - 14017 Hillside Dr	5	1	6,370,862.5	1,839,376.1	1,010.00	4.92	0.00	66	10.0	8.0	Y
R-5 - 14022 Highway 94 A	6	1	6,370,820.5	1,839,166.4	1,007.00	4.92	0.00	66	10.0	8.0	Y
R-6 - 14022 Highway 94 B	7	1	6,370,720.0	1,839,161.8	1,007.00	4.92	0.00	66	10.0	8.0	Y
R-7 - 14019 Highway 94	8	1	6,370,584.0	1,839,275.4	1,007.00	4.92	0.00	66	10.0	8.0	Y
R-8 - 14075 Short Ct	9	1	6,370,376.0	1,839,044.6	1,014.00	4.92	0.00	66	10.0	8.0	Y
R-9 - 14027 Hillsdie Dr	10	1	6,371,060.0	1,839,115.8	1,035.00	4.92	0.00	66	10.0	8.0	Y
R-10 - 14024 Highway 94	11	1	6,370,898.0	1,838,976.9	1,014.00	4.92	0.00	66	10.0	8.0	Y
R-11 - 14023 Campo Dr	12	1	6,370,414.5	1,838,893.0	1,005.00	4.92	0.00	66	10.0	8.0	Y
R-12 - 14043 Highway 94	14	1	6,370,396.0	1,838,738.2	1,001.00	4.92	0.00	66	10.0	8.0	Y
R-13 - 14051 Campo Rd	15	1	6,370,375.0	1,838,565.6	1,003.00	4.92	0.00	66	10.0	8.0	Y
R-14 - 14061 Campo Rd	16	1	6,370,436.0	1,838,446.0	985.00	4.92	0.00	66	10.0	8.0	Y
R-15 - 14018 Las Palmas Rd	17	1	6,370,843.0	1,838,530.5	1,010.00	4.92	0.00	66	10.0	8.0	Y
R-16 - 14013 Las Palmas Rd	18	1	6,370,828.5	1,838,266.2	994.00	4.92	0.00	66	10.0	8.0	Y
R-17 - 14031 Las Palmas Rd	20	1	6,371,023.0	1,838,146.8	1,005.00	4.92	0.00	66	10.0	8.0	Y
R-18 - 14066 Highway 94	21	1	6,371,003.0	1,838,029.5	1,010.00	4.92	0.00	66	10.0	8.0	Y
R-19 - 3023 Calle Mesquite	22	1	6,369,754.5	1,837,925.4	1,016.00	4.92	0.00	66	10.0	8.0	Y
R-20 - 3015 Calle Mesquite	23	1	6,369,772.5	1,837,777.9	1,018.00	4.92	0.00	66	10.0	8.0	Y
R-21 - 3007 Calle Mesquite	24	1	6,369,766.5	1,837,652.1	1,002.00	4.92	0.00	66	10.0	8.0	Y
R-22 - 14024 Peaceful Valley Ranch Rd	26	1	6,371,362.0	1,836,883.2	948.00	4.92	0.00	66	10.0	8.0	Y

R-23 - 14102 Peaceful Valley Ranch Rd	27	1	6,372,137.0	1,837,447.2	947.00	4.92	0.00	66	10.0	8.0	Y
R-24 - 44114 Campo Rd	28	1	6,372,855.0	1,836,707.5	934.00	4.92	0.00	66	10.0	8.0	Y
R-25 - Jamul Reservation	30	1	6,370,702.5	1,836,278.4	898.00	4.92	0.00	66	10.0	8.0	Y
ST-1 - APN: 597-04-126	32	1	6,370,859.0	1,838,704.5	1,009.00	4.92	0.00	66	10.0	8.0	Y
ST-2 - 14020 Melody Rd	34	1	6,370,104.0	1,837,642.0	1,001.50	4.92	0.00	66	10.0	8.0	Y
ST-3 - 14024 Peaceful Valley Ranch Rd	37	1	6,371,208.0	1,836,635.8	930.00	4.92	0.00	66	10.0	8.0	Y

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INPUT: BARRIERS
PROJECT/CONTRACT: **SR 94 - Jamul Reservation Access**
RUN: **Alternative 1 - 2035**

Barrier Name	Type	Height Min	Height Max	If Wall $ per Unit Area	If Berm $ per Unit Vol.	Top Width	Run:Rise	Add'tnl $ per Unit Length	Points Name	No.	Coordinates (bottom) X	Y	Z	Height at Point	Segment Seg Ht Increment	Perturbs #Up	#Dn	On Struct?	Important Reflections?
		ft	ft	$/sq ft	$/cu yd	ft	ft:ft	$/ft			ft	ft	ft	ft	ft				
13857 Meldoy Rd	W	13.98	13.98	0.00				0.00	point1	1	6,368,830.5	1,837,302.4	1,051.00	13.98	0.00	0	0		
									point2	2	6,368,808.0	1,837,288.8	1,051.00	13.98	0.00	0	0		
									point3	3	6,368,813.5	1,837,280.2	1,051.00	13.98	0.00	0	0		
									point4	4	6,368,791.5	1,837,267.0	1,051.00	13.98	0.00	0	0		
									point5	5	6,368,809.5	1,837,237.2	1,051.00	13.98	0.00	0	0		
									point6	6	6,368,800.0	1,837,231.2	1,051.00	13.98	0.00	0	0		
									point7	7	6,368,811.0	1,837,212.9	1,051.00	13.98	0.00	0	0		
									point8	8	6,368,847.0	1,837,234.9	1,051.00	13.98	0.00	0	0		
									point9	9	6,368,826.5	1,837,268.9	1,051.00	13.98	0.00	0	0		
									point10	10	6,368,844.5	1,837,279.6	1,051.00	13.98	0.00	0	0		
									point11	11	6,368,830.5	1,837,302.4	1,051.00	13.98					
13861 Melody Rd	W	13.98	13.98	0.00				0.00	point12	12	6,368,976.5	1,837,239.9	1,047.00	13.98	0.00	0	0		
									point13	13	6,368,946.0	1,837,240.8	1,047.00	13.98	0.00	0	0		
									point14	14	6,368,945.5	1,837,225.0	1,047.00	13.98	0.00	0	0		
									point15	15	6,368,935.5	1,837,225.2	1,047.00	13.98	0.00	0	0		
									point16	16	6,368,936.0	1,837,248.1	1,047.00	13.98	0.00	0	0		
									point17	17	6,368,909.5	1,837,248.8	1,047.00	13.98	0.00	0	0		
									point18	18	6,368,908.0	1,837,195.5	1,047.00	13.98	0.00	0	0		
									point19	19	6,368,975.5	1,837,193.8	1,047.00	13.98	0.00	0	0		
									point20	20	6,368,976.5	1,837,239.9	1,047.00	13.98					
3002 Calle Allejandro	W	13.98	13.98	0.00				0.00	point21	21	6,368,764.0	1,837,603.0	1,032.00	13.98	0.00	0	0		
									point22	22	6,368,783.0	1,837,592.8	1,032.00	13.98	0.00	0	0		
									point23	23	6,368,793.0	1,837,593.0	1,032.00	13.98	0.00	0	0		
									point24	24	6,368,793.0	1,837,598.0	1,032.00	13.98	0.00	0	0		
									point25	25	6,368,796.5	1,837,597.9	1,032.00	13.98	0.00	0	0		
									point26	26	6,368,796.5	1,837,609.2	1,032.00	13.98	0.00	0	0		
									point27	27	6,368,802.0	1,837,609.0	1,032.00	13.98	0.00	0	0		
									point28	28	6,368,801.5	1,837,621.1	1,032.00	13.98	0.00	0	0		
									point29	29	6,368,828.0	1,837,622.0	1,032.00	13.98	0.00	0	0		
									point30	30	6,368,828.0	1,837,615.5	1,032.00	13.98	0.00	0	0		
									point31	31	6,368,840.0	1,837,615.9	1,032.00	13.98	0.00	0	0		
									point32	32	6,368,840.0	1,837,614.6	1,032.00	13.98	0.00	0	0		
									point33	33	6,368,850.5	1,837,614.9	1,032.00	13.98	0.00	0	0		
									point34	34	6,368,851.0	1,837,606.5	1,032.00	13.98	0.00	0	0		
									point35	35	6,368,854.0	1,837,606.6	1,032.00	13.98	0.00	0	0		

									point36	36	6,368,854.5	1,837,590.0	1,032.00	13.98	0.00	0	0		
									point37	37	6,368,856.5	1,837,589.8	1,032.00	13.98	0.00	0	0		
									point38	38	6,368,857.5	1,837,568.9	1,032.00	13.98	0.00	0	0		
									point39	39	6,368,835.0	1,837,568.0	1,032.00	13.98	0.00	0	0		
									point40	40	6,368,835.0	1,837,563.9	1,032.00	13.98	0.00	0	0		
									point41	41	6,368,795.0	1,837,562.9	1,032.00	13.98	0.00	0	0		
									point42	42	6,368,795.0	1,837,566.4	1,032.00	13.98	0.00	0	0		
									point43	43	6,368,776.0	1,837,565.8	1,032.00	13.98	0.00	0	0		
									point44	44	6,368,750.5	1,837,580.1	1,032.00	13.98	0.00	0	0		
									point45	45	6,368,764.0	1,837,603.0	1,032.00	13.98					
3003 Calle Allejandro	W	13.98	13.98	0.00				0.00	point46	46	6,368,996.5	1,837,670.1	1,020.00	13.98	0.00	0	0		
									point47	47	6,369,013.5	1,837,691.0	1,020.00	13.98	0.00	0	0		
									point48	48	6,369,040.0	1,837,669.2	1,020.00	13.98	0.00	0	0		
									point49	49	6,369,044.0	1,837,674.0	1,020.00	13.98	0.00	0	0		
									point50	50	6,369,042.5	1,837,675.4	1,020.00	13.98	0.00	0	0		
									point51	51	6,369,052.5	1,837,687.6	1,020.00	13.98	0.00	0	0		
									point52	52	6,369,054.0	1,837,686.2	1,020.00	13.98	0.00	0	0		
									point53	53	6,369,057.5	1,837,690.1	1,020.00	13.98	0.00	0	0		
									point54	54	6,369,055.5	1,837,691.6	1,020.00	13.98	0.00	0	0		
									point55	55	6,369,066.5	1,837,704.9	1,020.00	13.98	0.00	0	0		
									point56	56	6,369,091.0	1,837,684.6	1,020.00	13.98	0.00	0	0		
									point57	57	6,369,071.5	1,837,660.8	1,020.00	13.98	0.00	0	0		
									point58	58	6,369,073.5	1,837,658.9	1,020.00	13.98	0.00	0	0		
									point59	59	6,369,068.0	1,837,651.9	1,020.00	13.98	0.00	0	0		
									point60	60	6,369,070.5	1,837,649.9	1,020.00	13.98	0.00	0	0		
									point61	61	6,369,059.5	1,837,636.5	1,020.00	13.98	0.00	0	0		
									point62	62	6,369,057.5	1,837,638.0	1,020.00	13.98	0.00	0	0		
									point63	63	6,369,047.0	1,837,625.1	1,020.00	13.98	0.00	0	0		
									point64	64	6,369,026.5	1,837,641.9	1,020.00	13.98	0.00	0	0		
									point65	65	6,369,028.0	1,837,644.0	1,020.00	13.98	0.00	0	0		
									point66	66	6,368,996.5	1,837,670.1	1,020.00	13.98					
3006 Calle Mesquite	W	13.98	13.98	0.00				0.00	point67	67	6,369,469.5	1,837,703.5	1,007.00	13.98	0.00	0	0		
									point68	68	6,369,549.5	1,837,706.9	1,007.00	13.98	0.00	0	0		
									point69	69	6,369,550.0	1,837,687.1	1,007.00	13.98	0.00	0	0		
									point70	70	6,369,538.5	1,837,686.6	1,007.00	13.98	0.00	0	0		
									point71	71	6,369,538.5	1,837,683.0	1,007.00	13.98	0.00	0	0		
									point72	72	6,369,533.0	1,837,682.8	1,007.00	13.98	0.00	0	0		
									point73	73	6,369,533.0	1,837,670.2	1,007.00	13.98	0.00	0	0		
									point74	74	6,369,539.5	1,837,665.5	1,007.00	13.98	0.00	0	0		
									point75	75	6,369,561.5	1,837,665.8	1,007.00	13.98	0.00	0	0		
									point76	76	6,369,562.5	1,837,640.2	1,007.00	13.98	0.00	0	0		
									point77	77	6,369,479.0	1,837,638.8	1,007.00	13.98	0.00	0	0		
									point78	78	6,369,480.5	1,837,674.9	1,007.00	13.98	0.00	0	0		
									point79	79	6,369,463.5	1,837,674.1	1,007.00	13.98	0.00	0	0		
									point80	80	6,369,463.0	1,837,691.5	1,007.00	13.98	0.00	0	0		
									point81	81	6,369,470.0	1,837,691.8	1,007.00	13.98	0.00	0	0		
									point82	82	6,369,469.5	1,837,701.4	1,007.00	13.98					
3010 Calle Mesquite	W	13.98	13.98	0.00				0.00	point83	83	6,369,450.0	1,837,856.6	1,025.00	13.98	0.00	0	0		
									point84	84	6,369,489.5	1,837,853.1	1,025.00	13.98	0.00	0	0		

									point85	85	6,369,488.0	1,837,837.2	1,025.00	13.98	0.00	0	0		
									point86	86	6,369,495.0	1,837,836.6	1,025.00	13.98	0.00	0	0		
									point87	87	6,369,494.0	1,837,828.0	1,025.00	13.98	0.00	0	0		
									point88	88	6,369,491.5	1,837,828.2	1,025.00	13.98	0.00	0	0		
									point89	89	6,369,490.5	1,837,815.1	1,025.00	13.98	0.00	0	0		
									point90	90	6,369,489.0	1,837,815.2	1,025.00	13.98	0.00	0	0		
									point91	91	6,369,485.0	1,837,769.9	1,025.00	13.98	0.00	0	0		
									point92	92	6,369,458.0	1,837,772.2	1,025.00	13.98	0.00	0	0		
									point93	93	6,369,460.5	1,837,799.5	1,025.00	13.98	0.00	0	0		
									point94	94	6,369,445.0	1,837,800.9	1,025.00	13.98	0.00	0	0		
									point95	95	6,369,450.0	1,837,856.6	1,025.00	13.98					
3015 Calle Mesquite	W	13.98	13.98	0.00				0.00	point96	96	6,369,749.0	1,837,752.2	1,018.00	13.98	0.00	0	0		
									point97	97	6,369,746.0	1,837,795.8	1,018.00	13.98	0.00	0	0		
									point98	98	6,369,756.5	1,837,796.5	1,018.00	13.98	0.00	0	0		
									point99	99	6,369,754.5	1,837,822.5	1,018.00	13.98	0.00	0	0		
									point100	100	6,369,757.5	1,837,822.8	1,018.00	13.98	0.00	0	0		
									point101	101	6,369,762.5	1,837,828.5	1,018.00	13.98	0.00	0	0		
									point102	102	6,369,762.0	1,837,835.9	1,018.00	13.98	0.00	0	0		
									point103	103	6,369,757.0	1,837,840.2	1,018.00	13.98	0.00	0	0		
									point104	104	6,369,753.0	1,837,839.9	1,018.00	13.98	0.00	0	0		
									point105	105	6,369,752.5	1,837,843.1	1,018.00	13.98	0.00	0	0		
									point106	106	6,369,733.0	1,837,841.5	1,018.00	13.98	0.00	0	0		
									point107	107	6,369,731.5	1,837,855.0	1,018.00	13.98	0.00	0	0		
									point108	108	6,369,735.0	1,837,855.2	1,018.00	13.98	0.00	0	0		
									point109	109	6,369,734.5	1,837,864.1	1,018.00	13.98	0.00	0	0		
									point110	110	6,369,707.0	1,837,861.9	1,018.00	13.98	0.00	0	0		
									point111	111	6,369,709.5	1,837,840.1	1,018.00	13.98	0.00	0	0		
									point112	112	6,369,702.5	1,837,839.6	1,018.00	13.98	0.00	0	0		
									point113	113	6,369,703.0	1,837,832.6	1,018.00	13.98	0.00	0	0		
									point114	114	6,369,685.5	1,837,831.2	1,018.00	13.98	0.00	0	0		
									point115	115	6,369,686.0	1,837,825.4	1,018.00	13.98	0.00	0	0		
									point116	116	6,369,682.0	1,837,825.0	1,018.00	13.98	0.00	0	0		
									point117	117	6,369,683.5	1,837,804.9	1,018.00	13.98	0.00	0	0		
									point118	118	6,369,687.5	1,837,805.2	1,018.00	13.98	0.00	0	0		
									point119	119	6,369,688.0	1,837,799.1	1,018.00	13.98	0.00	0	0		
									point120	120	6,369,705.0	1,837,800.5	1,018.00	13.98	0.00	0	0		
									point121	121	6,369,705.5	1,837,793.1	1,018.00	13.98	0.00	0	0		
									point122	122	6,369,710.5	1,837,793.5	1,018.00	13.98	0.00	0	0		
									point123	123	6,369,713.5	1,837,775.4	1,018.00	13.98	0.00	0	0		
									point124	124	6,369,718.5	1,837,775.1	1,018.00	13.98	0.00	0	0		
									point125	125	6,369,721.0	1,837,750.0	1,018.00	13.98	0.00	0	0		
									point126	126	6,369,749.0	1,837,752.2	1,018.00	13.98					
3007 Calle Mesquite	W	13.98	13.98	0.00				0.00	point127	127	6,369,684.0	1,837,623.5	1,003.00	13.98	0.00	0	0		
									point128	128	6,369,680.5	1,837,660.8	1,003.00	13.98	0.00	0	0		
									point129	129	6,369,713.0	1,837,663.0	1,003.00	13.98	0.00	0	0		
									point130	130	6,369,709.0	1,837,707.1	1,003.00	13.98	0.00	0	0		
									point131	131	6,369,751.0	1,837,710.4	1,003.00	13.98	0.00	0	0		
									point132	132	6,369,759.0	1,837,631.1	1,003.00	13.98	0.00	0	0		
									point133	133	6,369,684.0	1,837,623.5	1,003.00	13.98					

14061 Campo Rd	W	13.98	13.98	0.00				0.00	point134	134	6,370,485.5	1,838,490.9	985.00	13.98	0.00	0	0		
									point135	135	6,370,478.5	1,838,490.9	985.00	13.98	0.00	0	0		
									point136	136	6,370,478.5	1,838,489.9	985.00	13.98	0.00	0	0		
									point137	137	6,370,447.5	1,838,489.8	985.00	13.98	0.00	0	0		
									point138	138	6,370,447.5	1,838,490.6	985.00	13.98	0.00	0	0		
									point139	139	6,370,441.0	1,838,490.6	985.00	13.98	0.00	0	0		
									point140	140	6,370,441.5	1,838,454.2	985.00	13.98	0.00	0	0		
									point141	141	6,370,446.5	1,838,454.2	985.00	13.98	0.00	0	0		
									point142	142	6,370,446.5	1,838,418.9	985.00	13.98	0.00	0	0		
									point143	143	6,370,417.5	1,838,418.6	985.00	13.98	0.00	0	0		
									point144	144	6,370,418.0	1,838,389.8	985.00	13.98	0.00	0	0		
									point145	145	6,370,481.0	1,838,390.2	985.00	13.98	0.00	0	0		
									point146	146	6,370,480.5	1,838,454.8	985.00	13.98	0.00	0	0		
									point147	147	6,370,486.0	1,838,454.8	985.00	13.98	0.00	0	0		
									point148	148	6,370,485.5	1,838,490.9	985.00	13.98					
14043 Highway 94	W	13.98	13.98	0.00				0.00	point149	149	6,370,459.0	1,838,795.4	1,000.00	13.98	0.00	0	0		
									point150	150	6,370,421.5	1,838,795.2	1,000.00	13.98	0.00	0	0		
									point151	151	6,370,421.5	1,838,788.5	1,000.00	13.98	0.00	0	0		
									point152	152	6,370,411.0	1,838,788.5	1,000.00	13.98	0.00	0	0		
									point153	153	6,370,411.5	1,838,754.5	1,000.00	13.98	0.00	0	0		
									point154	154	6,370,421.0	1,838,754.5	1,000.00	13.98	0.00	0	0		
									point155	155	6,370,421.0	1,838,714.2	1,000.00	13.98	0.00	0	0		
									point156	156	6,370,459.5	1,838,714.4	1,000.00	13.98	0.00	0	0		
									point157	157	6,370,459.0	1,838,795.4	1,000.00	13.98					
14023 Campo Rd	W	13.98	13.98	0.00				0.00	point158	158	6,370,480.5	1,838,895.0	1,002.00	13.98	0.00	0	0		
									point159	159	6,370,478.5	1,838,947.8	1,002.00	13.98	0.00	0	0		
									point160	160	6,370,462.0	1,838,947.1	1,002.00	13.98	0.00	0	0		
									point161	161	6,370,461.0	1,838,977.1	1,002.00	13.98	0.00	0	0		
									point162	162	6,370,431.5	1,838,976.2	1,002.00	13.98	0.00	0	0		
									point163	163	6,370,432.5	1,838,943.9	1,002.00	13.98	0.00	0	0		
									point164	164	6,370,421.0	1,838,943.5	1,002.00	13.98	0.00	0	0		
									point165	165	6,370,422.5	1,838,893.1	1,002.00	13.98	0.00	0	0		
									point166	166	6,370,480.5	1,838,895.0	1,002.00	13.98					
14075 Short Ct	W	13.98	13.98	0.00				0.00	point167	167	6,370,437.0	1,839,078.0	1,006.00	13.98	0.00	0	0		
									point168	168	6,370,403.0	1,839,078.5	1,006.00	13.98	0.00	0	0		
									point169	169	6,370,403.0	1,839,112.4	1,006.00	13.98	0.00	0	0		
									point170	170	6,370,360.5	1,839,113.5	1,006.00	13.98	0.00	0	0		
									point171	171	6,370,359.5	1,839,054.0	1,006.00	13.98	0.00	0	0		
									point172	172	6,370,401.0	1,839,053.2	1,006.00	13.98	0.00	0	0		
									point173	173	6,370,401.0	1,839,050.9	1,006.00	13.98	0.00	0	0		
									point174	174	6,370,436.5	1,839,050.2	1,006.00	13.98	0.00	0	0		
									point175	175	6,370,437.0	1,839,078.0	1,006.00	13.98					
14022 Highway 94 A	W	13.98	13.98	0.00				0.00	point176	176	6,370,749.5	1,839,200.6	1,008.00	13.98	0.00	0	0		
									point177	177	6,370,703.5	1,839,198.1	1,008.00	13.98	0.00	0	0		
									point178	178	6,370,704.5	1,839,185.4	1,008.00	13.98	0.00	0	0		
									point179	179	6,370,702.0	1,839,185.1	1,008.00	13.98	0.00	0	0		
									point180	180	6,370,703.0	1,839,172.1	1,008.00	13.98	0.00	0	0		
									point181	181	6,370,719.5	1,839,173.1	1,008.00	13.98	0.00	0	0		
									point182	182	6,370,719.5	1,839,168.0	1,008.00	13.98	0.00	0	0		

									point183	183	6,370,727.5	1,839,168.5	1,008.00	13.98	0.00	0	0		
									point184	184	6,370,727.5	1,839,173.4	1,008.00	13.98	0.00	0	0		
									point185	185	6,370,750.5	1,839,174.8	1,008.00	13.98	0.00	0	0		
									point186	186	6,370,749.5	1,839,200.6	1,008.00	13.98					
14022 Highway 94 B	W	13.98	13.98	0.00				0.00	point187	187	6,370,792.0	1,839,193.2	1,008.00	13.98	0.00	0	0		
									point188	188	6,370,831.5	1,839,193.4	1,008.00	13.98	0.00	0	0		
									point189	189	6,370,832.0	1,839,173.8	1,008.00	13.98	0.00	0	0		
									point190	190	6,370,792.0	1,839,173.6	1,008.00	13.98	0.00	0	0		
									point191	191	6,370,792.0	1,839,193.2	1,008.00	13.98					
14024 Highway 94	W	13.98	13.98	0.00				0.00	point192	192	6,370,906.5	1,838,959.0	1,014.00	13.98	0.00	0	0		
									point193	193	6,370,904.5	1,838,999.6	1,014.00	13.98	0.00	0	0		
									point194	194	6,370,923.0	1,839,000.6	1,014.00	13.98	0.00	0	0		
									point195	195	6,370,923.0	1,838,994.9	1,014.00	13.98	0.00	0	0		
									point196	196	6,370,926.0	1,838,995.1	1,014.00	13.98	0.00	0	0		
									point197	197	6,370,925.0	1,839,012.5	1,014.00	13.98	0.00	0	0		
									point198	198	6,370,951.0	1,839,013.9	1,014.00	13.98	0.00	0	0		
									point199	199	6,370,951.5	1,839,001.8	1,014.00	13.98	0.00	0	0		
									point200	200	6,370,957.5	1,839,002.0	1,014.00	13.98	0.00	0	0		
									point201	201	6,370,959.5	1,838,961.9	1,014.00	13.98	0.00	0	0		
									point202	202	6,370,906.5	1,838,959.0	1,014.00	13.98					
14018 Las Palmas Rd	W	13.98	13.98	0.00				0.00	point203	203	6,370,828.0	1,838,415.0	1,011.00	13.98	0.00	0	0		
									point204	204	6,370,827.5	1,838,430.5	1,011.00	13.98	0.00	0	0		
									point205	205	6,370,839.0	1,838,430.6	1,011.00	13.98	0.00	0	0		
									point206	206	6,370,839.0	1,838,439.1	1,011.00	13.98	0.00	0	0		
									point207	207	6,370,823.5	1,838,439.0	1,011.00	13.98	0.00	0	0		
									point208	208	6,370,823.5	1,838,430.6	1,011.00	13.98	0.00	0	0		
									point209	209	6,370,806.0	1,838,430.5	1,011.00	13.98	0.00	0	0		
									point210	210	6,370,805.5	1,838,461.2	1,011.00	13.98	0.00	0	0		
									point211	211	6,370,813.0	1,838,461.4	1,011.00	13.98	0.00	0	0		
									point212	212	6,370,813.0	1,838,475.9	1,011.00	13.98	0.00	0	0		
									point213	213	6,370,828.0	1,838,476.0	1,011.00	13.98	0.00	0	0		
									point214	214	6,370,828.0	1,838,478.8	1,011.00	13.98	0.00	0	0		
									point215	215	6,370,840.0	1,838,478.9	1,011.00	13.98	0.00	0	0		
									point216	216	6,370,840.0	1,838,474.4	1,011.00	13.98	0.00	0	0		
									point217	217	6,370,856.0	1,838,474.5	1,011.00	13.98	0.00	0	0		
									point218	218	6,370,856.0	1,838,450.5	1,011.00	13.98	0.00	0	0		
									point219	219	6,370,871.0	1,838,450.6	1,011.00	13.98	0.00	0	0		
									point220	220	6,370,871.5	1,838,422.2	1,011.00	13.98	0.00	0	0		
									point221	221	6,370,858.0	1,838,422.1	1,011.00	13.98	0.00	0	0		
									point222	222	6,370,858.0	1,838,418.5	1,011.00	13.98	0.00	0	0		
									point223	223	6,370,842.5	1,838,418.4	1,011.00	13.98	0.00	0	0		
									point224	224	6,370,842.5	1,838,415.1	1,011.00	13.98	0.00	0	0		
									point225	225	6,370,828.0	1,838,415.0	1,011.00	13.98					
14013 Las Palmas Rd	W	13.98	13.98	0.00				0.00	point226	226	6,370,872.5	1,838,285.2	996.00	13.98	0.00	0	0		
									point227	227	6,370,843.0	1,838,285.4	996.00	13.98	0.00	0	0		
									point228	228	6,370,842.5	1,838,261.8	996.00	13.98	0.00	0	0		
									point229	229	6,370,838.5	1,838,261.8	996.00	13.98	0.00	0	0		
									point230	230	6,370,838.5	1,838,241.5	996.00	13.98	0.00	0	0		
									point231	231	6,370,810.5	1,838,241.8	996.00	13.98	0.00	0	0		

									point232	232	6,370,810.5	1,838,200.2	996.00	13.98	0.00	0	0		
									point233	233	6,370,834.0	1,838,200.1	996.00	13.98	0.00	0	0		
									point234	234	6,370,834.0	1,838,177.1	996.00	13.98	0.00	0	0		
									point235	235	6,370,872.0	1,838,177.0	996.00	13.98	0.00	0	0		
									point236	236	6,370,872.0	1,838,203.6	996.00	13.98	0.00	0	0		
									point237	237	6,370,870.0	1,838,203.6	996.00	13.98	0.00	0	0		
									point238	238	6,370,870.0	1,838,237.5	996.00	13.98	0.00	0	0		
									point239	239	6,370,872.0	1,838,237.5	996.00	13.98	0.00	0	0		
									point240	240	6,370,872.5	1,838,285.2	996.00	13.98					
Fire House	W	13.98	13.98	0.00				0.00	point241	241	6,371,417.0	1,836,939.6	948.00	13.98	0.00	0	0		
									point242	242	6,371,421.0	1,836,894.8	948.00	13.98	0.00	0	0		
									point243	243	6,371,419.5	1,836,894.6	948.00	13.98	0.00	0	0		
									point244	244	6,371,420.0	1,836,885.2	948.00	13.98	0.00	0	0		
									point245	245	6,371,373.0	1,836,880.4	948.00	13.98	0.00	0	0		
									point246	246	6,371,372.5	1,836,891.0	948.00	13.98	0.00	0	0		
									point247	247	6,371,313.5	1,836,886.9	948.00	13.98	0.00	0	0		
									point248	248	6,371,312.0	1,836,901.5	948.00	13.98	0.00	0	0		
									point249	249	6,371,297.0	1,836,900.2	948.00	13.98	0.00	0	0		
									point250	250	6,371,295.0	1,836,930.1	948.00	13.98	0.00	0	0		
									point251	251	6,371,321.5	1,836,932.2	948.00	13.98	0.00	0	0		
									point252	252	6,371,321.0	1,836,940.9	948.00	13.98	0.00	0	0		
									point253	253	6,371,339.5	1,836,942.4	948.00	13.98	0.00	0	0		
									point254	254	6,371,340.5	1,836,933.6	948.00	13.98	0.00	0	0		
									point255	255	6,371,364.0	1,836,935.6	948.00	13.98	0.00	0	0		
									point256	256	6,371,364.0	1,836,939.8	948.00	13.98	0.00	0	0		
									point257	257	6,371,409.0	1,836,943.5	948.00	13.98	0.00	0	0		
									point258	258	6,371,409.5	1,836,939.0	948.00	13.98	0.00	0	0		
									point259	259	6,371,417.0	1,836,939.6	948.00	13.98					
Fire House Garage	W	13.98	13.98	0.00				0.00	point260	260	6,371,533.0	1,837,042.2	948.00	13.98	0.00	0	0		
									point261	261	6,371,542.0	1,837,034.0	948.00	13.98	0.00	0	0		
									point262	262	6,371,543.5	1,837,036.0	948.00	13.98	0.00	0	0		
									point263	263	6,371,565.5	1,837,016.0	948.00	13.98	0.00	0	0		
									point264	264	6,371,563.5	1,837,013.9	948.00	13.98	0.00	0	0		
									point265	265	6,371,570.0	1,837,007.5	948.00	13.98	0.00	0	0		
									point266	266	6,371,554.5	1,836,990.6	948.00	13.98	0.00	0	0		
									point267	267	6,371,547.5	1,836,997.1	948.00	13.98	0.00	0	0		
									point268	268	6,371,539.0	1,836,988.2	948.00	13.98	0.00	0	0		
									point269	269	6,371,546.5	1,836,981.4	948.00	13.98	0.00	0	0		
									point270	270	6,371,536.5	1,836,970.6	948.00	13.98	0.00	0	0		
									point271	271	6,371,541.5	1,836,966.2	948.00	13.98	0.00	0	0		
									point272	272	6,371,490.5	1,836,911.0	948.00	13.98	0.00	0	0		
									point273	273	6,371,488.5	1,836,913.0	948.00	13.98	0.00	0	0		
									point274	274	6,371,478.5	1,836,902.5	948.00	13.98	0.00	0	0		
									point275	275	6,371,435.0	1,836,944.8	948.00	13.98	0.00	0	0		
									point276	276	6,371,444.5	1,836,954.9	948.00	13.98	0.00	0	0		
									point277	277	6,371,442.0	1,836,956.8	948.00	13.98	0.00	0	0		
									point278	278	6,371,477.0	1,836,994.2	948.00	13.98	0.00	0	0		
									point279	279	6,371,475.5	1,836,995.8	948.00	13.98	0.00	0	0		
									point280	280	6,371,492.0	1,837,013.9	948.00	13.98	0.00	0	0		

									point281	281	6,371,500.0	1,837,006.2	948.00	13.98	0.00	0	0		
									point282	282	6,371,533.0	1,837,042.2	948.00	13.98					
Resservation Church	W	13.98	13.98	0.00				0.00	point283	283	6,370,693.5	1,836,303.6	901.00	13.98	0.00	0	0		
									point284	284	6,370,632.5	1,836,302.5	901.00	13.98	0.00	0	0		
									point285	285	6,370,633.5	1,836,251.4	901.00	13.98	0.00	0	0		
									point286	286	6,370,694.5	1,836,252.5	901.00	13.98	0.00	0	0		
									point287	287	6,370,693.5	1,836,303.6	901.00	13.98					

Ldn Consulting			8 August 2014	
Ldn Consulting			TNM 2.5	
INPUT: TERRAIN LINES				
PROJECT/CONTRACT:	SR 94 - Jamul Reservation Access			
RUN:	Alternative 1 - 2035			
Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
Terrain Line2	41	6,371,670.0	1,836,253.6	915.00
	42	6,371,747.0	1,836,123.9	911.00
	43	6,371,833.0	1,835,951.0	911.00
	44	6,371,910.5	1,835,837.5	911.00
	45	6,371,911.5	1,835,815.8	912.00
	46	6,371,896.5	1,835,746.8	912.00
	47	6,371,837.0	1,835,596.6	910.00
	48	6,371,847.0	1,835,538.5	908.00
	49	6,371,914.0	1,835,444.0	905.00
	50	6,371,968.0	1,835,396.2	895.00
	51	6,372,061.5	1,835,333.5	888.00
	52	6,372,130.5	1,835,260.9	873.00
	53	6,372,223.0	1,835,144.1	865.00
	54	6,372,283.5	1,835,076.6	861.00
	55	6,372,401.0	1,834,966.2	859.00
	56	6,372,482.5	1,834,880.9	861.00
	57	6,372,511.5	1,834,844.8	864.00
	58	6,372,527.0	1,834,817.2	865.00
	59	6,372,540.0	1,834,787.9	864.00
	60	6,372,550.5	1,834,752.6	864.00
	61	6,372,559.0	1,834,721.5	864.00
	62	6,372,564.5	1,834,685.0	864.00
	63	6,372,559.0	1,834,637.8	864.00
	64	6,372,533.0	1,834,563.8	864.00

Terrain Line3	65	6,370,927.5	1,837,233.0	945.00
	66	6,371,007.5	1,837,209.4	945.00
	67	6,371,155.5	1,837,211.5	970.00
	68	6,371,285.0	1,837,190.5	983.00
	69	6,371,301.0	1,837,187.9	983.20
	70	6,371,330.0	1,837,162.5	983.00
	71	6,371,360.5	1,837,119.5	980.00
	72	6,371,389.0	1,837,040.9	968.00
	73	6,371,405.0	1,837,004.5	951.00
Terrain Line4	75	6,371,126.0	1,836,957.5	941.00
	76	6,371,131.0	1,836,964.9	945.00
	77	6,371,165.0	1,836,985.5	948.00
	78	6,371,233.5	1,837,005.4	950.00
	79	6,371,284.0	1,836,995.6	950.00
	80	6,371,393.5	1,836,995.9	950.00
	81	6,371,419.0	1,837,011.2	950.00
	82	6,371,440.5	1,837,072.0	950.00
	83	6,371,469.0	1,837,170.9	953.00
	84	6,371,512.5	1,837,208.6	954.00
Terrain Line5	85	6,371,541.0	1,837,185.2	951.00
	86	6,371,534.5	1,837,157.4	941.00
	87	6,371,542.0	1,837,136.4	940.00
	88	6,371,566.5	1,837,082.5	940.00
	89	6,371,573.5	1,837,061.8	949.00
	90	6,371,583.5	1,837,026.6	949.00
	91	6,371,569.0	1,836,983.5	949.00
	92	6,371,473.0	1,836,886.9	949.00
	93	6,371,303.5	1,836,869.0	949.00
	94	6,371,246.0	1,836,857.9	949.00
	95	6,371,206.0	1,836,892.2	949.00
	96	6,371,146.0	1,836,961.8	949.00
Terrain Line6	97	6,372,011.5	1,838,160.2	1,001.00
	98	6,371,873.0	1,838,054.9	1,022.00
	99	6,371,810.0	1,837,997.6	1,022.00
	100	6,371,760.0	1,837,983.6	1,022.00
	101	6,371,717.5	1,837,977.1	1,030.00

	102	6,371,679.0	1,837,985.9	1,030.50
	103	6,371,621.0	1,837,990.9	1,026.40
	104	6,371,597.5	1,838,029.9	1,028.00
	105	6,371,551.0	1,838,081.2	1,037.00
	106	6,371,537.5	1,838,103.8	1,041.00
	107	6,371,519.5	1,838,121.5	1,041.00
	108	6,371,473.5	1,838,139.9	1,042.00
	109	6,371,390.0	1,838,133.0	1,045.00
	110	6,371,343.5	1,838,103.9	1,045.00
	111	6,371,314.0	1,838,099.2	1,045.00
	112	6,371,234.5	1,838,041.2	1,040.00
	113	6,371,163.5	1,837,981.6	1,025.00
	114	6,371,079.5	1,837,895.9	1,005.00
	115	6,370,988.5	1,837,843.5	990.00
	116	6,370,732.0	1,837,676.2	960.00
Terrain Line7	117	6,371,013.0	1,836,953.9	936.40
	118	6,370,977.5	1,836,855.1	950.00
	119	6,370,946.0	1,836,781.5	952.40
	120	6,370,919.0	1,836,730.4	950.00
	121	6,370,760.0	1,836,622.0	893.00
	122	6,370,694.5	1,836,656.1	983.00
	123	6,370,648.5	1,836,722.1	896.00
	124	6,370,595.0	1,836,803.6	899.00
	125	6,370,547.0	1,836,906.8	903.00
	126	6,370,548.5	1,836,918.2	910.00
	127	6,370,553.0	1,836,963.4	911.00
	128	6,370,547.5	1,837,009.9	914.00
	129	6,370,530.0	1,837,055.5	918.00
	130	6,370,505.5	1,837,090.1	919.00
	131	6,370,389.0	1,837,187.1	920.00
	132	6,370,318.0	1,837,229.5	930.00
	133	6,370,251.5	1,837,267.1	954.00
	134	6,370,180.5	1,837,293.1	956.00
	135	6,370,152.0	1,837,310.8	959.00
	136	6,370,085.5	1,837,328.5	961.00
	137	6,370,032.5	1,837,372.6	962.00

	138	6,370,008.0	1,837,385.5	964.00
	139	6,369,984.0	1,837,393.8	965.00
	140	6,369,957.5	1,837,390.9	966.00
	141	6,369,935.5	1,837,392.1	967.00
	142	6,369,919.5	1,837,392.1	968.00
	143	6,369,908.0	1,837,398.0	970.00
	144	6,369,883.5	1,837,407.6	971.00
	145	6,369,847.5	1,837,433.1	972.00
	146	6,369,828.5	1,837,447.2	973.00
	147	6,369,777.5	1,837,483.2	974.00
	148	6,369,764.0	1,837,486.8	975.00
	149	6,369,718.0	1,837,491.1	976.00
	150	6,369,692.5	1,837,500.5	988.00
	151	6,369,669.5	1,837,512.9	991.00
	152	6,369,666.0	1,837,498.2	992.00
	153	6,369,644.0	1,837,489.8	991.00
	154	6,369,620.0	1,837,450.2	995.00
	155	6,369,605.0	1,837,366.6	1,000.00
	156	6,369,577.5	1,837,262.1	1,015.00
	157	6,369,506.5	1,836,995.0	1,080.00
	158	6,369,494.0	1,836,975.0	1,083.00
	159	6,369,471.5	1,836,955.5	1,084.90
	160	6,369,469.0	1,836,948.4	1,084.00
	161	6,369,467.0	1,836,885.1	1,075.00
	162	6,369,476.0	1,836,835.6	1,071.70
	163	6,369,467.0	1,836,821.5	1,072.00
	164	6,369,439.5	1,836,719.4	1,077.80
Terrain Line8	165	6,370,564.5	1,835,881.5	903.00
	166	6,370,563.5	1,835,904.4	903.00
	167	6,370,555.0	1,835,917.1	903.00
	168	6,370,543.5	1,835,929.0	903.00
	169	6,370,529.5	1,835,955.4	903.00
	170	6,370,518.0	1,835,970.1	903.00
	171	6,370,534.5	1,835,970.0	903.00
	172	6,370,548.5	1,835,979.9	903.00
	173	6,370,580.0	1,836,016.0	903.00

	174	6,370,611.5	1,836,083.9	903.00
	175	6,370,638.5	1,836,159.8	903.00
	176	6,370,645.5	1,836,229.9	903.00
	177	6,370,623.0	1,836,258.2	903.00
	178	6,370,612.5	1,836,305.4	903.00
	179	6,370,622.5	1,836,311.1	903.00
	180	6,370,709.5	1,836,320.6	903.00
	181	6,370,790.5	1,836,314.9	895.00
	182	6,370,917.0	1,836,302.5	888.00
	183	6,371,051.5	1,836,315.0	901.00
	184	6,371,120.5	1,836,320.1	908.00
	185	6,371,484.0	1,836,299.9	940.00
	186	6,371,720.0	1,836,293.0	905.00
Terrain Line9	187	6,370,148.5	1,837,691.9	1,000.00
	188	6,370,183.5	1,837,668.1	1,000.00
	189	6,370,190.5	1,837,629.2	1,000.00
	190	6,370,186.0	1,837,602.5	1,000.00
	191	6,370,134.5	1,837,598.2	1,000.00
	192	6,370,083.5	1,837,595.9	1,000.00
	193	6,370,071.5	1,837,614.2	1,000.00
	194	6,370,034.0	1,837,630.1	1,000.00
	195	6,370,002.5	1,837,637.0	1,000.00
	196	6,369,955.5	1,837,628.0	1,000.00
	197	6,369,930.5	1,837,642.2	1,000.00
	198	6,369,901.0	1,837,655.9	1,000.00
	199	6,369,890.0	1,837,686.4	1,000.00
	200	6,369,869.5	1,837,668.4	1,000.00
	201	6,369,880.0	1,837,603.5	1,000.00
	202	6,369,814.5	1,837,607.0	1,000.00
	203	6,369,794.5	1,837,615.8	1,000.00
	204	6,369,778.5	1,837,606.4	1,000.00
	205	6,369,730.5	1,837,600.9	1,000.00
	206	6,369,681.0	1,837,593.2	1,000.00
	207	6,369,671.0	1,837,599.8	1,000.00
	208	6,369,656.5	1,837,628.0	1,000.00
	209	6,369,642.0	1,837,643.1	1,000.00

Terrain Line10	210	6,369,889.0	1,837,757.5	1,004.00
	211	6,369,802.0	1,837,746.0	1,013.00
	212	6,369,656.5	1,837,739.0	1,014.00
	213	6,369,637.5	1,837,834.2	1,017.00
Terrain Line11	214	6,371,055.5	1,838,142.2	1,011.00
	215	6,370,876.0	1,838,136.5	995.00
	216	6,370,799.5	1,838,145.8	993.00
	217	6,370,771.0	1,838,144.9	992.00
	218	6,370,733.0	1,838,123.2	992.00
	219	6,370,721.5	1,838,126.6	992.00
	220	6,370,711.5	1,838,141.0	992.00
	221	6,370,712.0	1,838,199.2	992.00
	222	6,370,709.5	1,838,238.9	992.00
	223	6,370,712.0	1,838,280.1	992.00
	224	6,370,725.5	1,838,288.9	992.00
	225	6,370,741.5	1,838,322.8	992.00
Terrain Line12	226	6,371,187.0	1,838,938.6	1,049.00
	227	6,370,868.5	1,838,921.2	1,011.00
	228	6,370,835.0	1,838,918.2	1,008.00
	229	6,370,792.5	1,838,910.6	1,003.00
	230	6,370,765.0	1,838,904.9	999.00
	231	6,370,739.5	1,838,892.2	995.00
	232	6,370,677.0	1,838,858.9	991.00
Terrain Line13	233	6,371,051.5	1,838,642.0	1,040.00
	234	6,370,945.5	1,838,634.6	1,028.00
	235	6,370,872.0	1,838,628.6	1,016.00
	236	6,370,827.5	1,838,628.9	1,010.00
	237	6,370,802.0	1,838,517.9	1,010.00
	238	6,370,802.5	1,838,406.0	1,010.00
	239	6,370,866.5	1,838,409.1	1,010.00
	240	6,370,867.0	1,838,388.8	1,010.00
	241	6,370,871.0	1,838,370.1	1,007.00
Terrain Line14	242	6,370,051.5	1,839,161.1	1,033.00
	243	6,370,422.0	1,839,178.9	1,009.00
	244	6,370,438.5	1,839,122.1	1,006.00
	245	6,370,439.5	1,839,107.1	1,006.00

	246	6,370,439.5	1,839,032.0	1,006.00
	247	6,370,491.5	1,839,003.8	1,002.00
	248	6,370,491.0	1,838,897.0	1,001.00
	249	6,370,472.0	1,838,826.5	999.00
	250	6,370,476.0	1,838,798.6	999.00
	251	6,370,468.5	1,838,704.6	999.00
	252	6,370,436.0	1,838,698.1	999.00
	253	6,370,419.0	1,838,687.6	999.00
	254	6,370,416.0	1,838,614.1	999.00
Terrain Line15	255	6,370,896.0	1,839,011.1	1,010.00
	256	6,370,911.0	1,839,030.9	1,010.00
	257	6,370,917.0	1,839,067.1	1,010.00
	258	6,370,925.5	1,839,082.6	1,010.00
	259	6,370,925.0	1,839,102.8	1,010.00
	260	6,370,925.0	1,839,163.9	1,010.00
	261	6,370,933.5	1,839,191.9	1,010.00
	262	6,370,936.0	1,839,216.8	1,010.00
	263	6,370,966.0	1,839,269.5	1,010.00
	264	6,370,968.0	1,839,303.5	1,010.00
	265	6,370,967.5	1,839,377.1	1,010.00
	266	6,370,939.5	1,839,386.2	1,010.00
	267	6,370,919.5	1,839,375.0	1,010.00
	268	6,370,868.0	1,839,359.9	1,010.00
	269	6,370,845.0	1,839,343.0	1,010.00
	270	6,370,834.5	1,839,318.9	1,010.00
	271	6,370,811.0	1,839,306.0	1,010.00
	272	6,370,764.5	1,839,276.6	1,010.00
	273	6,370,743.5	1,839,270.4	1,010.00
	274	6,370,686.5	1,839,294.0	1,010.00
Terrain Line16	275	6,370,116.0	1,839,507.4	1,080.00
	276	6,370,229.0	1,839,185.2	1,023.00
Terrain Line1-2	5	6,371,520.0	1,836,597.4	932.00
	6	6,371,562.5	1,836,648.1	941.00
	7	6,371,647.0	1,836,692.1	959.00
	8	6,371,657.5	1,836,696.2	959.00
	9	6,371,747.0	1,836,717.0	980.00

	10	6,371,762.5	1,836,722.8	981.70
	11	6,371,774.0	1,836,734.4	980.00
	12	6,371,859.0	1,836,780.8	962.00
	13	6,371,868.0	1,836,785.4	962.00
	14	6,372,024.5	1,836,841.1	927.00
	15	6,372,196.0	1,836,861.1	911.00
	16	6,372,296.0	1,836,896.1	913.40
	17	6,372,359.5	1,836,880.6	912.50
	18	6,372,407.0	1,836,864.6	910.00
	19	6,372,502.5	1,836,758.0	900.50
	20	6,372,477.5	1,836,642.5	895.00
	21	6,372,501.5	1,836,393.6	885.00
	22	6,372,634.0	1,836,137.1	875.00
	23	6,372,767.0	1,835,883.8	865.00
	24	6,372,997.5	1,835,602.8	855.00
	25	6,373,086.0	1,835,529.1	852.00
	26	6,373,096.5	1,835,383.6	852.00
	27	6,373,246.5	1,835,379.0	869.00
	28	6,373,254.5	1,835,378.1	870.00
	29	6,373,389.5	1,835,292.5	907.40
	30	6,373,394.5	1,835,259.8	905.00
	31	6,373,392.0	1,835,231.8	900.00
	32	6,373,381.0	1,835,201.4	890.00
	33	6,373,382.0	1,835,166.6	884.00
	34	6,373,387.5	1,835,123.0	880.00
	35	6,373,398.0	1,835,039.5	867.00
	36	6,373,402.0	1,834,951.6	837.00
	37	6,373,439.5	1,834,878.1	825.00
	38	6,373,445.5	1,834,858.9	823.00
	39	6,373,535.5	1,834,625.2	818.00
	40	6,373,541.5	1,834,358.9	815.00

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Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: SR 94 - Jamul Reservation Access
RUN: Alternative 2 - 2035
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
R-1 - 13967 Highway 94	1	1	0.0	63.0	66	63.0	10	----	63.0	0.0	8	-8.0
R-2 - 13975 Highway 94	2	1	0.0	62.7	66	62.7	10	----	62.7	0.0	8	-8.0
R-3 - 14022 Hillside Dr	3	1	0.0	53.4	66	53.4	10	----	53.4	0.0	8	-8.0
R-4 - 14017 Hillside Dr	5	1	0.0	56.9	66	56.9	10	----	56.9	0.0	8	-8.0
R-5 - 14022 Highway 94 A	6	1	0.0	56.3	66	56.3	10	----	56.3	0.0	8	-8.0
R-6 - 14022 Highway 94 B	7	1	0.0	62.4	66	62.4	10	----	62.4	0.0	8	-8.0
R-7 - 14019 Highway 94	8	1	0.0	64.3	66	64.3	10	----	64.3	0.0	8	-8.0
R-8 - 14075 Short Ct	9	1	0.0	55.7	66	55.7	10	----	55.7	0.0	8	-8.0
R-9 - 14027 Hillsdie Dr	10	1	0.0	55.9	66	55.9	10	----	55.9	0.0	8	-8.0
R-10 - 14024 Highway 94	11	1	0.0	56.7	66	56.7	10	----	56.7	0.0	8	-8.0
R-11 - 14023 Campo Dr	12	1	0.0	56.1	66	56.1	10	----	56.1	0.0	8	-8.0
R-12 - 14043 Highway 94	14	1	0.0	51.7	66	51.7	10	----	51.7	0.0	8	-8.0
R-13 - 14051 Campo Rd	15	1	0.0	57.6	66	57.6	10	----	57.6	0.0	8	-8.0
R-14 - 14061 Campo Rd	16	1	0.0	43.6	66	43.6	10	----	43.6	0.0	8	-8.0
R-15 - 14018 Las Palmas Rd	17	1	0.0	57.7	66	57.7	10	----	57.7	0.0	8	-8.0
R-16 - 14013 Las Palmas Rd	18	1	0.0	57.3	66	57.3	10	----	57.3	0.0	8	-8.0
R-17 - 14031 Las Palmas Rd	20	1	0.0	53.5	66	53.5	10	----	53.5	0.0	8	-8.0
R-18 - 14066 Highway 94	21	1	0.0	56.5	66	56.5	10	----	56.5	0.0	8	-8.0
R-19 - 3023 Calle Mesquite	22	1	0.0	48.7	66	48.7	10	----	48.7	0.0	8	-8.0
R-20 - 3015 Calle Mesquite	23	1	0.0	50.3	66	50.3	10	----	50.3	0.0	8	-8.0
R-21 - 3007 Calle Mesquite	24	1	0.0	53.1	66	53.1	10	----	53.1	0.0	8	-8.0
R-22 - 14024 Peaceful Valley Ranch Rd	26	1	0.0	60.6	66	60.6	10	----	60.6	0.0	8	-8.0
R-23 - 14102 Peaceful Valley Ranch Rd	27	1	0.0	43.8	66	43.8	10	----	43.8	0.0	8	-8.0
R-24 - 44114 Campo Rd	28	1	0.0	47.1	66	47.1	10	----	47.1	0.0	8	-8.0

R-25 - Jamul Reservation	30	1	0.0	47.9	66	47.9	10	----	47.9	0.0	8	-8.0
ST-1 - APN: 597-04-126	32	1	0.0	59.1	66	59.1	10	----	59.1	0.0	8	-8.0
ST-2 - 14020 Melody Rd	34	1	0.0	56.3	66	56.3	10	----	56.3	0.0	8	-8.0
ST-3 - 14024 Peaceful Valley Ranch Rd	36	1	0.0	68.7	66	68.7	10	Snd Lvl	68.7	0.0	8	-8.0
LT - 14145 Highway 94	37	1	0.0	64.6	66	64.6	10	----	64.6	0.0	8	-8.0

Dwelling Units	**# DUs**	**Noise Reduction**		
		Min	**Avg**	**Max**
		dB	**dB**	**dB**
All Selected	29	0.0	0.0	0.0
All Impacted	1	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

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INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: **SR 94 - Jamul Reservation Access**
RUN: **Alternative 2 - 2035**

Roadway	Points											
Name	Name	No.	Segment									
			Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
SR-94 SB North of Melody Rd	point1	1	716	45	34	45	24	45	0	0	0	0
	point2	2	716	45	34	45	24	45	0	0	0	0
	point3	3										
SR-94 NB South of Melody Rd	point102	102	629	45	30	45	21	45	0	0	0	0
	point101	101	629	45	30	45	21	45	0	0	0	0
	point100	100	629	45	30	45	21	45	0	0	0	0
	point99	99	629	45	30	45	21	45	0	0	0	0
	point98	98	629	45	30	45	21	45	0	0	0	0
	point97	97	629	45	30	45	21	45	0	0	0	0
	point96	96	629	45	30	45	21	45	0	0	0	0
	point95	95										
Melody Rd WB West of SR-94	point103	103	110	30	5	30	4	30	0	0	0	0
	point104	104	110	30	5	30	4	30	0	0	0	0
	point105	105	110	30	5	30	4	30	0	0	0	0
	point106	106	110	30	5	30	4	30	0	0	0	0
	point107	107	110	30	5	30	4	30	0	0	0	0
	point108	108	110	30	5	30	4	30	0	0	0	0
	point109	109	110	30	5	30	4	30	0	0	0	0
	point110	110	110	30	5	30	4	30	0	0	0	0
	point111	111	110	30	5	30	4	30	0	0	0	0
	point112	112	110	30	5	30	4	30	0	0	0	0
	point113	113	110	30	5	30	4	30	0	0	0	0
	point114	114	110	30	5	30	4	30	0	0	0	0

	point115	115	110	30	5	30	4	30	0	0	0	0
	point116	116	110	30	5	30	4	30	0	0	0	0
	point117	117	110	30	5	30	4	30	0	0	0	0
	point118	118	110	30	5	30	4	30	0	0	0	0
	point119	119	110	30	5	30	4	30	0	0	0	0
	point120	120	110	30	5	30	4	30	0	0	0	0
	point121	121										
Melody Rd EB West of SR-94	point140	140	110	30	5	30	4	30	0	0	0	0
	point139	139	110	30	5	30	4	30	0	0	0	0
	point138	138	110	30	5	30	4	30	0	0	0	0
	point137	137	110	30	5	30	4	30	0	0	0	0
	point136	136	110	30	5	30	4	30	0	0	0	0
	point135	135	110	30	5	30	4	30	0	0	0	0
	point134	134	110	30	5	30	4	30	0	0	0	0
	point133	133	110	30	5	30	4	30	0	0	0	0
	point132	132	110	30	5	30	4	30	0	0	0	0
	point131	131	110	30	5	30	4	30	0	0	0	0
	point130	130	110	30	5	30	4	30	0	0	0	0
	point129	129	110	30	5	30	4	30	0	0	0	0
	point128	128	110	30	5	30	4	30	0	0	0	0
	point127	127	110	30	5	30	4	30	0	0	0	0
	point126	126	110	30	5	30	4	30	0	0	0	0
	point125	125	110	30	5	30	4	30	0	0	0	0
	point124	124	110	30	5	30	4	30	0	0	0	0
	point123	123	110	30	5	30	4	30	0	0	0	0
	point122	122										
Melody Rd WB East of SR-94	point141	141	24	25	1	25	1	25	0	0	0	0
	point142	142	24	25	1	25	1	25	0	0	0	0
	point143	143	24	25	1	25	1	25	0	0	0	0
	point144	144	24	25	1	25	1	25	0	0	0	0
	point145	145	24	25	1	25	1	25	0	0	0	0
	point146	146	24	25	1	25	1	25	0	0	0	0
	point147	147	24	25	1	25	1	25	0	0	0	0
	point148	148	24	25	1	25	1	25	0	0	0	0
	point149	149	24	25	1	25	1	25	0	0	0	0
	point150	150	24	25	1	25	1	25	0	0	0	0

	point151	151	24	25	1	25	1	25	0	0	0	0
	point152	152	24	25	1	25	1	25	0	0	0	0
	point153	153	24	25	1	25	1	25	0	0	0	0
	point154	154	24	25	1	25	1	25	0	0	0	0
	point155	155	24	25	1	25	1	25	0	0	0	0
	point156	156	24	25	1	25	1	25	0	0	0	0
	point157	157										
Melody Rd EB East of SR-94	point174	174	24	25	1	25	1	25	0	0	0	0
	point173	173	24	25	1	25	1	25	0	0	0	0
	point172	172	24	25	1	25	1	25	0	0	0	0
	point171	171	24	25	1	25	1	25	0	0	0	0
	point170	170	24	25	1	25	1	25	0	0	0	0
	point169	169	24	25	1	25	1	25	0	0	0	0
	point168	168	24	25	1	25	1	25	0	0	0	0
	point167	167	24	25	1	25	1	25	0	0	0	0
	point166	166	24	25	1	25	1	25	0	0	0	0
	point165	165	24	25	1	25	1	25	0	0	0	0
	point164	164	24	25	1	25	1	25	0	0	0	0
	point163	163	24	25	1	25	1	25	0	0	0	0
	point162	162	24	25	1	25	1	25	0	0	0	0
	point161	161	24	25	1	25	1	25	0	0	0	0
	point160	160	24	25	1	25	1	25	0	0	0	0
	point159	159	24	25	1	25	1	25	0	0	0	0
	point158	158										
Peacful Valley WB East of SR-94	point190	190	0	0	0	0	0	0	0	0	0	0
	point189	189	0	0	0	0	0	0	0	0	0	0
	point188	188	0	0	0	0	0	0	0	0	0	0
	point187	187	0	0	0	0	0	0	0	0	0	0
	point186	186	0	0	0	0	0	0	0	0	0	0
	point185	185	0	0	0	0	0	0	0	0	0	0
	point184	184	0	0	0	0	0	0	0	0	0	0
	point183	183	0	0	0	0	0	0	0	0	0	0
	point182	182	0	0	0	0	0	0	0	0	0	0
	point181	181	0	0	0	0	0	0	0	0	0	0
	point180	180	0	0	0	0	0	0	0	0	0	0
	point179	179	0	0	0	0	0	0	0	0	0	0

	point178	178	0	0	0	0	0	0	0	0	0	0
	point177	177	0	0	0	0	0	0	0	0	0	0
	point176	176	0	0	0	0	0	0	0	0	0	0
	point175	175										
Peacful Valley EB East of SR-94	point191	191	0	0	0	0	0	0	0	0	0	0
	point192	192	0	0	0	0	0	0	0	0	0	0
	point193	193	0	0	0	0	0	0	0	0	0	0
	point194	194	0	0	0	0	0	0	0	0	0	0
	point195	195	0	0	0	0	0	0	0	0	0	0
	point196	196	0	0	0	0	0	0	0	0	0	0
	point197	197	0	0	0	0	0	0	0	0	0	0
	point198	198	0	0	0	0	0	0	0	0	0	0
	point199	199	0	0	0	0	0	0	0	0	0	0
	point200	200	0	0	0	0	0	0	0	0	0	0
	point201	201	0	0	0	0	0	0	0	0	0	0
	point202	202	0	0	0	0	0	0	0	0	0	0
	point203	203	0	0	0	0	0	0	0	0	0	0
	point204	204	0	0	0	0	0	0	0	0	0	0
	point205	205	0	0	0	0	0	0	0	0	0	0
	point206	206										
Alt_2_NB_Lanes	point228	228	629	45	30	45	21	45	0	0	0	0
	point227	227	629	45	30	45	21	45	0	0	0	0
	point226	226	629	45	30	45	21	45	0	0	0	0
	point225	225	629	45	30	45	21	45	0	0	0	0
	point224	224	629	45	30	45	21	45	0	0	0	0
	point223	223	629	45	30	45	21	45	0	0	0	0
	point258	258										
Alt_2_SB_Lanes	point229	229	716	45	34	45	24	45	0	0	0	0
	point230	230	716	45	34	45	24	45	0	0	0	0
	point231	231	716	45	34	45	24	45	0	0	0	0
	point232	232	716	45	34	45	24	45	0	0	0	0
	point233	233	716	45	34	45	24	45	0	0	0	0
	point234	234	716	45	34	45	24	45	0	0	0	0
	point235	235	716	45	34	45	24	45	0	0	0	0
	point236	236										
SR-94 SB South of Melody Rd-2	point251	251	629	45	30	45	21	45	0	0	0	0

	point58	58	629	45	30	45	21	45	0	0	0	0
	point59	59	629	45	30	45	21	45	0	0	0	0
	point60	60	629	45	30	45	21	45	0	0	0	0
	point61	61	629	45	30	45	21	45	0	0	0	0
	point62	62	629	45	30	45	21	45	0	0	0	0
	point63	63	629	45	30	45	21	45	0	0	0	0
	point64	64										
SR-94 NB North of Melody Rd-2	point253	253	716	45	34	45	24	45	0	0	0	0
	point15	15	716	45	34	45	24	45	0	0	0	0
	point14	14										
Alt_2_NB_Lanes-2	point255	255	716	45	34	45	24	45	0	0	0	0
	point213	213	716	45	34	45	24	45	0	0	0	0
	point212	212	716	45	34	45	24	45	0	0	0	0
	point211	211	716	45	34	45	24	45	0	0	0	0
	point210	210	716	45	34	45	24	45	0	0	0	0
	point209	209	716	45	34	45	24	45	0	0	0	0
	point208	208	716	45	34	45	24	45	0	0	0	0
	point207	207										
Alt_2_SB_Lanes-2	point256	256	742	45	35	45	25	45	0	0	0	0
	point237	237	742	45	35	45	25	45	0	0	0	0
	point238	238	742	45	35	45	25	45	0	0	0	0
	point239	239	742	45	35	45	25	45	0	0	0	0
	point240	240	742	45	35	45	25	45	0	0	0	0
	point241	241	742	45	35	45	25	45	0	0	0	0
	point242	242	742	45	35	45	25	45	0	0	0	0
	point243	243	742	45	35	45	25	45	0	0	0	0
	point244	244	742	45	35	45	25	45	0	0	0	0
	point257	257										
Alt_2_SB_Lanes-2-2	point259	259	629	45	30	45	21	45	0	0	0	0
	point245	245	629	45	30	45	21	45	0	0	0	0
	point246	246	629	45	30	45	21	45	0	0	0	0
	point247	247	629	45	30	45	21	45	0	0	0	0
	point248	248	629	45	30	45	21	45	0	0	0	0
	point249	249	629	45	30	45	21	45	0	0	0	0
	point250	250										
Alt_2_NB_Lanes-2	point260	260	742	45	35	45	25	45	0	0	0	0

	point222	222	742	45	35	45	25	45	0	0	0	0
	point221	221	742	45	35	45	25	45	0	0	0	0
	point220	220	742	45	35	45	25	45	0	0	0	0
	point219	219	742	45	35	45	25	45	0	0	0	0
	point218	218	742	45	35	45	25	45	0	0	0	0
	point217	217	742	45	35	45	25	45	0	0	0	0
	point216	216	742	45	35	45	25	45	0	0	0	0
	point215	215	742	45	35	45	25	45	0	0	0	0
	point214	214										

Ldn Consulting **8 August 2014**
Ldn Consulting **TNM 2.5**

INPUT: RECEIVERS
PROJECT/CONTRACT: **SR 94 - Jamul Reservation Access**
RUN: **Alternative 2 - 2035**

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria Existing LAeq1h	Impact Criteria LAeq1h	Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
R-1 - 13967 Highway 94	1	1	6,370,558.5	1,839,906.5	1,034.00	4.92	0.00	66	10.0	8.0	Y
R-2 - 13975 Highway 94	2	1	6,370,532.5	1,839,782.0	1,030.00	4.92	0.00	66	10.0	8.0	Y
R-3 - 14022 Hillside Dr	3	1	6,370,971.5	1,839,692.2	1,031.00	4.92	0.00	66	10.0	8.0	Y
R-4 - 14017 Hillside Dr	5	1	6,370,862.5	1,839,376.1	1,010.00	4.92	0.00	66	10.0	8.0	Y
R-5 - 14022 Highway 94 A	6	1	6,370,820.5	1,839,166.4	1,007.00	4.92	0.00	66	10.0	8.0	Y
R-6 - 14022 Highway 94 B	7	1	6,370,720.0	1,839,161.8	1,007.00	4.92	0.00	66	10.0	8.0	Y
R-7 - 14019 Highway 94	8	1	6,370,584.0	1,839,275.4	1,007.00	4.92	0.00	66	10.0	8.0	Y
R-8 - 14075 Short Ct	9	1	6,370,376.0	1,839,044.6	1,014.00	4.92	0.00	66	10.0	8.0	Y
R-9 - 14027 Hillsdie Dr	10	1	6,371,060.0	1,839,115.8	1,035.00	4.92	0.00	66	10.0	8.0	Y
R-10 - 14024 Highway 94	11	1	6,370,898.0	1,838,976.9	1,014.00	4.92	0.00	66	10.0	8.0	Y
R-11 - 14023 Campo Dr	12	1	6,370,414.5	1,838,893.0	1,005.00	4.92	0.00	66	10.0	8.0	Y
R-12 - 14043 Highway 94	14	1	6,370,396.0	1,838,738.2	1,001.00	4.92	0.00	66	10.0	8.0	Y
R-13 - 14051 Campo Rd	15	1	6,370,375.0	1,838,565.6	1,003.00	4.92	0.00	66	10.0	8.0	Y
R-14 - 14061 Campo Rd	16	1	6,370,436.0	1,838,446.0	985.00	4.92	0.00	66	10.0	8.0	Y
R-15 - 14018 Las Palmas Rd	17	1	6,370,843.0	1,838,530.5	1,010.00	4.92	0.00	66	10.0	8.0	Y
R-16 - 14013 Las Palmas Rd	18	1	6,370,828.5	1,838,266.2	994.00	4.92	0.00	66	10.0	8.0	Y
R-17 - 14031 Las Palmas Rd	20	1	6,371,023.0	1,838,146.8	1,005.00	4.92	0.00	66	10.0	8.0	Y
R-18 - 14066 Highway 94	21	1	6,371,003.0	1,838,029.5	1,010.00	4.92	0.00	66	10.0	8.0	Y
R-19 - 3023 Calle Mesquite	22	1	6,369,754.5	1,837,925.4	1,016.00	4.92	0.00	66	10.0	8.0	Y
R-20 - 3015 Calle Mesquite	23	1	6,369,772.5	1,837,777.9	1,018.00	4.92	0.00	66	10.0	8.0	Y
R-21 - 3007 Calle Mesquite	24	1	6,369,766.5	1,837,652.1	1,002.00	4.92	0.00	66	10.0	8.0	Y
R-22 - 14024 Peaceful Valley Ranch Rd	26	1	6,371,362.0	1,836,883.2	948.00	4.92	0.00	66	10.0	8.0	Y

R-23 - 14102 Peaceful Valley Ranch Rd	27	1	6,372,137.0	1,837,447.2	947.00	4.92	0.00	66	10.0	8.0	Y
R-24 - 44114 Campo Rd	28	1	6,372,855.0	1,836,707.5	934.00	4.92	0.00	66	10.0	8.0	Y
R-25 - Jamul Reservation	30	1	6,370,702.5	1,836,278.4	898.00	4.92	0.00	66	10.0	8.0	Y
ST-1 - APN: 597-04-126	32	1	6,370,859.0	1,838,704.5	1,009.00	4.92	0.00	66	10.0	8.0	Y
ST-2 - 14020 Melody Rd	34	1	6,370,104.0	1,837,642.0	1,001.50	4.92	0.00	66	10.0	8.0	Y
ST-3 - 14024 Peaceful Valley Ranch Rd	36	1	6,371,617.0	1,836,500.5	923.00	4.92	0.00	66	10.0	8.0	Y
LT - 14145 Highway 94	37	1	6,371,208.0	1,836,635.8	930.00	4.92	0.00	66	10.0	8.0	Y

Ldn Consulting **8 August 2014**
Ldn Consulting **TNM 2.5**

INPUT: BARRIERS
PROJECT/CONTRACT: **SR 94 - Jamul Reservation Access**
RUN: **Alternative 2 - 2035**

Barrier Name	Type	Height Min	Height Max	If Wall $ per Unit Area	If Berm $ per Unit Vol.	Top Width	Run:Rise	Add'tnl $ per Unit Length	Points Name	No.	Coordinates (bottom) X	Y	Z	Height at Point	Segment Seg Ht Incre-ment	Perturbs #Up	#Dn	On Struct?	Important Reflec-tions?
		ft	ft	$/sq ft	$/cu yd	ft	ft:ft	$/ft			ft	ft	ft	ft	ft				
13857 Meldoy Rd	W	13.98	13.98	0.00				0.00	point1	1	6,368,830.5	1,837,302.4	1,051.00	13.98	0.00	0	0		
									point2	2	6,368,808.0	1,837,288.8	1,051.00	13.98	0.00	0	0		
									point3	3	6,368,813.5	1,837,280.2	1,051.00	13.98	0.00	0	0		
									point4	4	6,368,791.5	1,837,267.0	1,051.00	13.98	0.00	0	0		
									point5	5	6,368,809.5	1,837,237.2	1,051.00	13.98	0.00	0	0		
									point6	6	6,368,800.0	1,837,231.2	1,051.00	13.98	0.00	0	0		
									point7	7	6,368,811.0	1,837,212.9	1,051.00	13.98	0.00	0	0		
									point8	8	6,368,847.0	1,837,234.9	1,051.00	13.98	0.00	0	0		
									point9	9	6,368,826.5	1,837,268.9	1,051.00	13.98	0.00	0	0		
									point10	10	6,368,844.5	1,837,279.6	1,051.00	13.98	0.00	0	0		
									point11	11	6,368,830.5	1,837,302.4	1,051.00	13.98					
13861 Melody Rd	W	13.98	13.98	0.00				0.00	point12	12	6,368,976.5	1,837,239.9	1,047.00	13.98	0.00	0	0		
									point13	13	6,368,946.0	1,837,240.8	1,047.00	13.98	0.00	0	0		
									point14	14	6,368,945.5	1,837,225.0	1,047.00	13.98	0.00	0	0		
									point15	15	6,368,935.5	1,837,225.2	1,047.00	13.98	0.00	0	0		
									point16	16	6,368,936.0	1,837,248.1	1,047.00	13.98	0.00	0	0		
									point17	17	6,368,909.5	1,837,248.8	1,047.00	13.98	0.00	0	0		
									point18	18	6,368,908.0	1,837,195.5	1,047.00	13.98	0.00	0	0		
									point19	19	6,368,975.5	1,837,193.8	1,047.00	13.98	0.00	0	0		
									point20	20	6,368,976.5	1,837,239.9	1,047.00	13.98					
3002 Calle Allejandro	W	13.98	13.98	0.00				0.00	point21	21	6,368,764.0	1,837,603.0	1,032.00	13.98	0.00	0	0		
									point22	22	6,368,783.0	1,837,592.8	1,032.00	13.98	0.00	0	0		
									point23	23	6,368,793.0	1,837,593.0	1,032.00	13.98	0.00	0	0		
									point24	24	6,368,793.0	1,837,598.0	1,032.00	13.98	0.00	0	0		
									point25	25	6,368,796.5	1,837,597.9	1,032.00	13.98	0.00	0	0		
									point26	26	6,368,796.5	1,837,609.2	1,032.00	13.98	0.00	0	0		
									point27	27	6,368,802.0	1,837,609.0	1,032.00	13.98	0.00	0	0		
									point28	28	6,368,801.5	1,837,621.1	1,032.00	13.98	0.00	0	0		
									point29	29	6,368,828.0	1,837,622.0	1,032.00	13.98	0.00	0	0		
									point30	30	6,368,828.0	1,837,615.5	1,032.00	13.98	0.00	0	0		
									point31	31	6,368,840.0	1,837,615.9	1,032.00	13.98	0.00	0	0		
									point32	32	6,368,840.0	1,837,614.6	1,032.00	13.98	0.00	0	0		
									point33	33	6,368,850.5	1,837,614.9	1,032.00	13.98	0.00	0	0		
									point34	34	6,368,851.0	1,837,606.5	1,032.00	13.98	0.00	0	0		
									point35	35	6,368,854.0	1,837,606.6	1,032.00	13.98	0.00	0	0		

									point36	36	6,368,854.5	1,837,590.0	1,032.00	13.98	0.00	0	0		
									point37	37	6,368,856.5	1,837,589.8	1,032.00	13.98	0.00	0	0		
									point38	38	6,368,857.5	1,837,568.9	1,032.00	13.98	0.00	0	0		
									point39	39	6,368,835.0	1,837,568.0	1,032.00	13.98	0.00	0	0		
									point40	40	6,368,835.0	1,837,563.9	1,032.00	13.98	0.00	0	0		
									point41	41	6,368,795.0	1,837,562.9	1,032.00	13.98	0.00	0	0		
									point42	42	6,368,795.0	1,837,566.4	1,032.00	13.98	0.00	0	0		
									point43	43	6,368,776.0	1,837,565.8	1,032.00	13.98	0.00	0	0		
									point44	44	6,368,750.5	1,837,580.1	1,032.00	13.98	0.00	0	0		
									point45	45	6,368,764.0	1,837,603.0	1,032.00	13.98					
3003 Calle Allejandro	W	13.98	13.98	0.00				0.00	point46	46	6,368,996.5	1,837,670.1	1,020.00	13.98	0.00	0	0		
									point47	47	6,369,013.5	1,837,691.0	1,020.00	13.98	0.00	0	0		
									point48	48	6,369,040.0	1,837,669.2	1,020.00	13.98	0.00	0	0		
									point49	49	6,369,044.0	1,837,674.0	1,020.00	13.98	0.00	0	0		
									point50	50	6,369,042.5	1,837,675.4	1,020.00	13.98	0.00	0	0		
									point51	51	6,369,052.5	1,837,687.6	1,020.00	13.98	0.00	0	0		
									point52	52	6,369,054.0	1,837,686.2	1,020.00	13.98	0.00	0	0		
									point53	53	6,369,057.5	1,837,690.1	1,020.00	13.98	0.00	0	0		
									point54	54	6,369,055.5	1,837,691.6	1,020.00	13.98	0.00	0	0		
									point55	55	6,369,066.5	1,837,704.9	1,020.00	13.98	0.00	0	0		
									point56	56	6,369,091.0	1,837,684.6	1,020.00	13.98	0.00	0	0		
									point57	57	6,369,071.5	1,837,660.8	1,020.00	13.98	0.00	0	0		
									point58	58	6,369,073.5	1,837,658.9	1,020.00	13.98	0.00	0	0		
									point59	59	6,369,068.0	1,837,651.9	1,020.00	13.98	0.00	0	0		
									point60	60	6,369,070.5	1,837,649.9	1,020.00	13.98	0.00	0	0		
									point61	61	6,369,059.5	1,837,636.5	1,020.00	13.98	0.00	0	0		
									point62	62	6,369,057.5	1,837,638.0	1,020.00	13.98	0.00	0	0		
									point63	63	6,369,047.0	1,837,625.1	1,020.00	13.98	0.00	0	0		
									point64	64	6,369,026.5	1,837,641.9	1,020.00	13.98	0.00	0	0		
									point65	65	6,369,028.0	1,837,644.0	1,020.00	13.98	0.00	0	0		
									point66	66	6,368,996.5	1,837,670.1	1,020.00	13.98					
3006 Calle Mesquite	W	13.98	13.98	0.00				0.00	point67	67	6,369,469.5	1,837,703.5	1,007.00	13.98	0.00	0	0		
									point68	68	6,369,549.5	1,837,706.9	1,007.00	13.98	0.00	0	0		
									point69	69	6,369,550.0	1,837,687.1	1,007.00	13.98	0.00	0	0		
									point70	70	6,369,538.5	1,837,686.6	1,007.00	13.98	0.00	0	0		
									point71	71	6,369,538.5	1,837,683.0	1,007.00	13.98	0.00	0	0		
									point72	72	6,369,533.0	1,837,682.8	1,007.00	13.98	0.00	0	0		
									point73	73	6,369,533.0	1,837,670.2	1,007.00	13.98	0.00	0	0		
									point74	74	6,369,539.5	1,837,665.5	1,007.00	13.98	0.00	0	0		
									point75	75	6,369,561.5	1,837,665.8	1,007.00	13.98	0.00	0	0		
									point76	76	6,369,562.5	1,837,640.2	1,007.00	13.98	0.00	0	0		
									point77	77	6,369,479.0	1,837,638.8	1,007.00	13.98	0.00	0	0		
									point78	78	6,369,480.5	1,837,674.9	1,007.00	13.98	0.00	0	0		
									point79	79	6,369,463.5	1,837,674.1	1,007.00	13.98	0.00	0	0		
									point80	80	6,369,463.0	1,837,691.5	1,007.00	13.98	0.00	0	0		
									point81	81	6,369,470.0	1,837,691.8	1,007.00	13.98	0.00	0	0		
									point82	82	6,369,469.5	1,837,701.4	1,007.00	13.98					
3010 Calle Mesquite	W	13.98	13.98	0.00				0.00	point83	83	6,369,450.0	1,837,856.6	1,025.00	13.98	0.00	0	0		
									point84	84	6,369,489.5	1,837,853.1	1,025.00	13.98	0.00	0	0		

									point85	85	6,369,488.0	1,837,837.2	1,025.00	13.98	0.00	0	0			
									point86	86	6,369,495.0	1,837,836.6	1,025.00	13.98	0.00	0	0			
									point87	87	6,369,494.0	1,837,828.0	1,025.00	13.98	0.00	0	0			
									point88	88	6,369,491.5	1,837,828.2	1,025.00	13.98	0.00	0	0			
									point89	89	6,369,490.5	1,837,815.1	1,025.00	13.98	0.00	0	0			
									point90	90	6,369,489.0	1,837,815.2	1,025.00	13.98	0.00	0	0			
									point91	91	6,369,485.0	1,837,769.9	1,025.00	13.98	0.00	0	0			
									point92	92	6,369,458.0	1,837,772.2	1,025.00	13.98	0.00	0	0			
									point93	93	6,369,460.5	1,837,799.5	1,025.00	13.98	0.00	0	0			
									point94	94	6,369,445.0	1,837,800.9	1,025.00	13.98	0.00	0	0			
									point95	95	6,369,450.0	1,837,856.6	1,025.00	13.98						
3015 Calle Mesquite	W	13.98	13.98	0.00				0.00	point96	96	6,369,749.0	1,837,752.2	1,018.00	13.98	0.00	0	0			
									point97	97	6,369,746.0	1,837,795.8	1,018.00	13.98	0.00	0	0			
									point98	98	6,369,756.5	1,837,796.5	1,018.00	13.98	0.00	0	0			
									point99	99	6,369,754.5	1,837,822.5	1,018.00	13.98	0.00	0	0			
									point100	100	6,369,757.5	1,837,822.8	1,018.00	13.98	0.00	0	0			
									point101	101	6,369,762.5	1,837,828.5	1,018.00	13.98	0.00	0	0			
									point102	102	6,369,762.0	1,837,835.9	1,018.00	13.98	0.00	0	0			
									point103	103	6,369,757.0	1,837,840.2	1,018.00	13.98	0.00	0	0			
									point104	104	6,369,753.0	1,837,839.9	1,018.00	13.98	0.00	0	0			
									point105	105	6,369,752.5	1,837,843.1	1,018.00	13.98	0.00	0	0			
									point106	106	6,369,733.0	1,837,841.5	1,018.00	13.98	0.00	0	0			
									point107	107	6,369,731.5	1,837,855.0	1,018.00	13.98	0.00	0	0			
									point108	108	6,369,735.0	1,837,855.2	1,018.00	13.98	0.00	0	0			
									point109	109	6,369,734.5	1,837,864.1	1,018.00	13.98	0.00	0	0			
									point110	110	6,369,707.0	1,837,861.9	1,018.00	13.98	0.00	0	0			
									point111	111	6,369,709.5	1,837,840.1	1,018.00	13.98	0.00	0	0			
									point112	112	6,369,702.5	1,837,839.6	1,018.00	13.98	0.00	0	0			
									point113	113	6,369,703.0	1,837,832.6	1,018.00	13.98	0.00	0	0			
									point114	114	6,369,685.5	1,837,831.2	1,018.00	13.98	0.00	0	0			
									point115	115	6,369,686.0	1,837,825.4	1,018.00	13.98	0.00	0	0			
									point116	116	6,369,682.0	1,837,825.0	1,018.00	13.98	0.00	0	0			
									point117	117	6,369,683.5	1,837,804.9	1,018.00	13.98	0.00	0	0			
									point118	118	6,369,687.5	1,837,805.2	1,018.00	13.98	0.00	0	0			
									point119	119	6,369,688.0	1,837,799.1	1,018.00	13.98	0.00	0	0			
									point120	120	6,369,705.0	1,837,800.5	1,018.00	13.98	0.00	0	0			
									point121	121	6,369,705.5	1,837,793.1	1,018.00	13.98	0.00	0	0			
									point122	122	6,369,710.5	1,837,793.5	1,018.00	13.98	0.00	0	0			
									point123	123	6,369,713.5	1,837,775.4	1,018.00	13.98	0.00	0	0			
									point124	124	6,369,718.5	1,837,775.1	1,018.00	13.98	0.00	0	0			
									point125	125	6,369,721.0	1,837,750.0	1,018.00	13.98	0.00	0	0			
									point126	126	6,369,749.0	1,837,752.2	1,018.00	13.98						
3007 Calle Mesquite	W	13.98	13.98	0.00				0.00	point127	127	6,369,684.0	1,837,623.5	1,003.00	13.98	0.00	0	0			
									point128	128	6,369,680.5	1,837,660.8	1,003.00	13.98	0.00	0	0			
									point129	129	6,369,713.0	1,837,663.0	1,003.00	13.98	0.00	0	0			
									point130	130	6,369,709.0	1,837,707.1	1,003.00	13.98	0.00	0	0			
									point131	131	6,369,751.0	1,837,710.4	1,003.00	13.98	0.00	0	0			
									point132	132	6,369,759.0	1,837,631.1	1,003.00	13.98	0.00	0	0			
									point133	133	6,369,684.0	1,837,623.5	1,003.00	13.98						

14061 Campo Rd	W	13.98	13.98	0.00				0.00	point134	134	6,370,485.5	1,838,490.9	985.00	13.98	0.00	0	0		
									point135	135	6,370,478.5	1,838,490.9	985.00	13.98	0.00	0	0		
									point136	136	6,370,478.5	1,838,489.9	985.00	13.98	0.00	0	0		
									point137	137	6,370,447.5	1,838,489.8	985.00	13.98	0.00	0	0		
									point138	138	6,370,447.5	1,838,490.6	985.00	13.98	0.00	0	0		
									point139	139	6,370,441.0	1,838,490.6	985.00	13.98	0.00	0	0		
									point140	140	6,370,441.5	1,838,454.2	985.00	13.98	0.00	0	0		
									point141	141	6,370,446.5	1,838,454.2	985.00	13.98	0.00	0	0		
									point142	142	6,370,446.5	1,838,418.9	985.00	13.98	0.00	0	0		
									point143	143	6,370,417.5	1,838,418.6	985.00	13.98	0.00	0	0		
									point144	144	6,370,418.0	1,838,389.8	985.00	13.98	0.00	0	0		
									point145	145	6,370,481.0	1,838,390.2	985.00	13.98	0.00	0	0		
									point146	146	6,370,480.5	1,838,454.8	985.00	13.98	0.00	0	0		
									point147	147	6,370,486.0	1,838,454.8	985.00	13.98	0.00	0	0		
									point148	148	6,370,485.5	1,838,490.9	985.00	13.98					
14043 Highway 94	W	13.98	13.98	0.00				0.00	point149	149	6,370,459.0	1,838,795.4	1,000.00	13.98	0.00	0	0		
									point150	150	6,370,421.5	1,838,795.2	1,000.00	13.98	0.00	0	0		
									point151	151	6,370,421.5	1,838,788.5	1,000.00	13.98	0.00	0	0		
									point152	152	6,370,411.0	1,838,788.5	1,000.00	13.98	0.00	0	0		
									point153	153	6,370,411.5	1,838,754.5	1,000.00	13.98	0.00	0	0		
									point154	154	6,370,421.0	1,838,754.5	1,000.00	13.98	0.00	0	0		
									point155	155	6,370,421.0	1,838,714.2	1,000.00	13.98	0.00	0	0		
									point156	156	6,370,459.5	1,838,714.4	1,000.00	13.98	0.00	0	0		
									point157	157	6,370,459.0	1,838,795.4	1,000.00	13.98					
14023 Campo Rd	W	13.98	13.98	0.00				0.00	point158	158	6,370,480.5	1,838,895.0	1,002.00	13.98	0.00	0	0		
									point159	159	6,370,478.5	1,838,947.8	1,002.00	13.98	0.00	0	0		
									point160	160	6,370,462.0	1,838,947.1	1,002.00	13.98	0.00	0	0		
									point161	161	6,370,461.0	1,838,977.1	1,002.00	13.98	0.00	0	0		
									point162	162	6,370,431.5	1,838,976.2	1,002.00	13.98	0.00	0	0		
									point163	163	6,370,432.5	1,838,943.9	1,002.00	13.98	0.00	0	0		
									point164	164	6,370,421.0	1,838,943.5	1,002.00	13.98	0.00	0	0		
									point165	165	6,370,422.5	1,838,893.1	1,002.00	13.98	0.00	0	0		
									point166	166	6,370,480.5	1,838,895.0	1,002.00	13.98					
14075 Short Ct	W	13.98	13.98	0.00				0.00	point167	167	6,370,437.0	1,839,078.0	1,006.00	13.98	0.00	0	0		
									point168	168	6,370,403.0	1,839,078.5	1,006.00	13.98	0.00	0	0		
									point169	169	6,370,403.0	1,839,112.4	1,006.00	13.98	0.00	0	0		
									point170	170	6,370,360.5	1,839,113.5	1,006.00	13.98	0.00	0	0		
									point171	171	6,370,359.5	1,839,054.0	1,006.00	13.98	0.00	0	0		
									point172	172	6,370,401.0	1,839,053.2	1,006.00	13.98	0.00	0	0		
									point173	173	6,370,401.0	1,839,050.9	1,006.00	13.98	0.00	0	0		
									point174	174	6,370,436.5	1,839,050.2	1,006.00	13.98	0.00	0	0		
									point175	175	6,370,437.0	1,839,078.0	1,006.00	13.98					
14022 Highway 94 A	W	13.98	13.98	0.00				0.00	point176	176	6,370,749.5	1,839,200.6	1,008.00	13.98	0.00	0	0		
									point177	177	6,370,703.5	1,839,198.1	1,008.00	13.98	0.00	0	0		
									point178	178	6,370,704.5	1,839,185.4	1,008.00	13.98	0.00	0	0		
									point179	179	6,370,702.0	1,839,185.1	1,008.00	13.98	0.00	0	0		
									point180	180	6,370,703.0	1,839,172.1	1,008.00	13.98	0.00	0	0		
									point181	181	6,370,719.5	1,839,173.1	1,008.00	13.98	0.00	0	0		
									point182	182	6,370,719.5	1,839,168.0	1,008.00	13.98	0.00	0	0		

									point183	183	6,370,727.5	1,839,168.5	1,008.00	13.98	0.00	0	0		
									point184	184	6,370,727.5	1,839,173.4	1,008.00	13.98	0.00	0	0		
									point185	185	6,370,750.5	1,839,174.8	1,008.00	13.98	0.00	0	0		
									point186	186	6,370,749.5	1,839,200.6	1,008.00	13.98					
14022 Highway 94 B	W	13.98	13.98	0.00				0.00	point187	187	6,370,792.0	1,839,193.2	1,008.00	13.98	0.00	0	0		
									point188	188	6,370,831.5	1,839,193.4	1,008.00	13.98	0.00	0	0		
									point189	189	6,370,832.0	1,839,173.8	1,008.00	13.98	0.00	0	0		
									point190	190	6,370,792.0	1,839,173.6	1,008.00	13.98	0.00	0	0		
									point191	191	6,370,792.0	1,839,193.2	1,008.00	13.98					
14024 Highway 94	W	13.98	13.98	0.00				0.00	point192	192	6,370,906.5	1,838,959.0	1,014.00	13.98	0.00	0	0		
									point193	193	6,370,904.5	1,838,999.6	1,014.00	13.98	0.00	0	0		
									point194	194	6,370,923.0	1,839,000.6	1,014.00	13.98	0.00	0	0		
									point195	195	6,370,923.0	1,838,994.9	1,014.00	13.98	0.00	0	0		
									point196	196	6,370,926.0	1,838,995.1	1,014.00	13.98	0.00	0	0		
									point197	197	6,370,925.0	1,839,012.5	1,014.00	13.98	0.00	0	0		
									point198	198	6,370,951.0	1,839,013.9	1,014.00	13.98	0.00	0	0		
									point199	199	6,370,951.5	1,839,001.8	1,014.00	13.98	0.00	0	0		
									point200	200	6,370,957.5	1,839,002.0	1,014.00	13.98	0.00	0	0		
									point201	201	6,370,959.5	1,838,961.9	1,014.00	13.98	0.00	0	0		
									point202	202	6,370,906.5	1,838,959.0	1,014.00	13.98					
14018 Las Palmas Rd	W	13.98	13.98	0.00				0.00	point203	203	6,370,828.0	1,838,415.0	1,011.00	13.98	0.00	0	0		
									point204	204	6,370,827.5	1,838,430.5	1,011.00	13.98	0.00	0	0		
									point205	205	6,370,839.0	1,838,430.6	1,011.00	13.98	0.00	0	0		
									point206	206	6,370,839.0	1,838,439.1	1,011.00	13.98	0.00	0	0		
									point207	207	6,370,823.5	1,838,439.0	1,011.00	13.98	0.00	0	0		
									point208	208	6,370,823.5	1,838,430.6	1,011.00	13.98	0.00	0	0		
									point209	209	6,370,806.0	1,838,430.5	1,011.00	13.98	0.00	0	0		
									point210	210	6,370,805.5	1,838,461.2	1,011.00	13.98	0.00	0	0		
									point211	211	6,370,813.0	1,838,461.4	1,011.00	13.98	0.00	0	0		
									point212	212	6,370,813.0	1,838,475.9	1,011.00	13.98	0.00	0	0		
									point213	213	6,370,828.0	1,838,476.0	1,011.00	13.98	0.00	0	0		
									point214	214	6,370,828.0	1,838,478.8	1,011.00	13.98	0.00	0	0		
									point215	215	6,370,840.0	1,838,478.9	1,011.00	13.98	0.00	0	0		
									point216	216	6,370,840.0	1,838,474.4	1,011.00	13.98	0.00	0	0		
									point217	217	6,370,856.0	1,838,474.5	1,011.00	13.98	0.00	0	0		
									point218	218	6,370,856.0	1,838,450.5	1,011.00	13.98	0.00	0	0		
									point219	219	6,370,871.0	1,838,450.6	1,011.00	13.98	0.00	0	0		
									point220	220	6,370,871.5	1,838,422.2	1,011.00	13.98	0.00	0	0		
									point221	221	6,370,858.0	1,838,422.1	1,011.00	13.98	0.00	0	0		
									point222	222	6,370,858.0	1,838,418.5	1,011.00	13.98	0.00	0	0		
									point223	223	6,370,842.5	1,838,418.4	1,011.00	13.98	0.00	0	0		
									point224	224	6,370,842.5	1,838,415.1	1,011.00	13.98	0.00	0	0		
									point225	225	6,370,828.0	1,838,415.0	1,011.00	13.98					
14013 Las Palmas Rd	W	13.98	13.98	0.00				0.00	point226	226	6,370,872.5	1,838,285.2	996.00	13.98	0.00	0	0		
									point227	227	6,370,843.0	1,838,285.4	996.00	13.98	0.00	0	0		
									point228	228	6,370,842.5	1,838,261.8	996.00	13.98	0.00	0	0		
									point229	229	6,370,838.5	1,838,261.8	996.00	13.98	0.00	0	0		
									point230	230	6,370,838.5	1,838,241.5	996.00	13.98	0.00	0	0		
									point231	231	6,370,810.5	1,838,241.8	996.00	13.98	0.00	0	0		

									point232	232	6,370,810.5	1,838,200.2	996.00	13.98	0.00	0	0		
									point233	233	6,370,834.0	1,838,200.1	996.00	13.98	0.00	0	0		
									point234	234	6,370,834.0	1,838,177.1	996.00	13.98	0.00	0	0		
									point235	235	6,370,872.0	1,838,177.0	996.00	13.98	0.00	0	0		
									point236	236	6,370,872.0	1,838,203.6	996.00	13.98	0.00	0	0		
									point237	237	6,370,870.0	1,838,203.6	996.00	13.98	0.00	0	0		
									point238	238	6,370,870.0	1,838,237.5	996.00	13.98	0.00	0	0		
									point239	239	6,370,872.0	1,838,237.5	996.00	13.98	0.00	0	0		
									point240	240	6,370,872.5	1,838,285.2	996.00	13.98					
Fire House	W	13.98	13.98	0.00				0.00	point241	241	6,371,417.0	1,836,939.6	948.00	13.98	0.00	0	0		
									point242	242	6,371,421.0	1,836,894.8	948.00	13.98	0.00	0	0		
									point243	243	6,371,419.5	1,836,894.6	948.00	13.98	0.00	0	0		
									point244	244	6,371,420.0	1,836,885.2	948.00	13.98	0.00	0	0		
									point245	245	6,371,373.0	1,836,880.4	948.00	13.98	0.00	0	0		
									point246	246	6,371,372.5	1,836,891.0	948.00	13.98	0.00	0	0		
									point247	247	6,371,313.5	1,836,886.9	948.00	13.98	0.00	0	0		
									point248	248	6,371,312.0	1,836,901.5	948.00	13.98	0.00	0	0		
									point249	249	6,371,297.0	1,836,900.2	948.00	13.98	0.00	0	0		
									point250	250	6,371,295.0	1,836,930.1	948.00	13.98	0.00	0	0		
									point251	251	6,371,321.5	1,836,932.2	948.00	13.98	0.00	0	0		
									point252	252	6,371,321.0	1,836,940.9	948.00	13.98	0.00	0	0		
									point253	253	6,371,339.5	1,836,942.4	948.00	13.98	0.00	0	0		
									point254	254	6,371,340.5	1,836,933.6	948.00	13.98	0.00	0	0		
									point255	255	6,371,364.0	1,836,935.6	948.00	13.98	0.00	0	0		
									point256	256	6,371,364.0	1,836,939.8	948.00	13.98	0.00	0	0		
									point257	257	6,371,409.0	1,836,943.5	948.00	13.98	0.00	0	0		
									point258	258	6,371,409.5	1,836,939.0	948.00	13.98	0.00	0	0		
									point259	259	6,371,417.0	1,836,939.6	948.00	13.98					
Fire House Garage	W	13.98	13.98	0.00				0.00	point260	260	6,371,533.0	1,837,042.2	948.00	13.98	0.00	0	0		
									point261	261	6,371,542.0	1,837,034.0	948.00	13.98	0.00	0	0		
									point262	262	6,371,543.5	1,837,036.0	948.00	13.98	0.00	0	0		
									point263	263	6,371,565.5	1,837,016.0	948.00	13.98	0.00	0	0		
									point264	264	6,371,563.5	1,837,013.9	948.00	13.98	0.00	0	0		
									point265	265	6,371,570.0	1,837,007.5	948.00	13.98	0.00	0	0		
									point266	266	6,371,554.5	1,836,990.6	948.00	13.98	0.00	0	0		
									point267	267	6,371,547.5	1,836,997.1	948.00	13.98	0.00	0	0		
									point268	268	6,371,539.0	1,836,988.2	948.00	13.98	0.00	0	0		
									point269	269	6,371,546.5	1,836,981.4	948.00	13.98	0.00	0	0		
									point270	270	6,371,536.5	1,836,970.6	948.00	13.98	0.00	0	0		
									point271	271	6,371,541.5	1,836,966.2	948.00	13.98	0.00	0	0		
									point272	272	6,371,490.5	1,836,911.0	948.00	13.98	0.00	0	0		
									point273	273	6,371,488.5	1,836,913.0	948.00	13.98	0.00	0	0		
									point274	274	6,371,478.5	1,836,902.5	948.00	13.98	0.00	0	0		
									point275	275	6,371,435.0	1,836,944.8	948.00	13.98	0.00	0	0		
									point276	276	6,371,444.5	1,836,954.9	948.00	13.98	0.00	0	0		
									point277	277	6,371,442.0	1,836,956.8	948.00	13.98	0.00	0	0		
									point278	278	6,371,477.0	1,836,994.2	948.00	13.98	0.00	0	0		
									point279	279	6,371,475.5	1,836,995.8	948.00	13.98	0.00	0	0		
									point280	280	6,371,492.0	1,837,013.9	948.00	13.98	0.00	0	0		

									point281	281	6,371,500.0	1,837,006.2	948.00	13.98	0.00	0	0		
									point282	282	6,371,533.0	1,837,042.2	948.00	13.98					
Resservation Church	W	13.98	13.98	0.00				0.00	point283	283	6,370,693.5	1,836,303.6	901.00	13.98	0.00	0	0		
									point284	284	6,370,632.5	1,836,302.5	901.00	13.98	0.00	0	0		
									point285	285	6,370,633.5	1,836,251.4	901.00	13.98	0.00	0	0		
									point286	286	6,370,694.5	1,836,252.5	901.00	13.98	0.00	0	0		
									point287	287	6,370,693.5	1,836,303.6	901.00	13.98					

Ldn Consulting			8 August 2014	
Ldn Consulting			TNM 2.5	
INPUT: TERRAIN LINES				
PROJECT/CONTRACT:	SR 94 - Jamul Reservation Access			
RUN:	Alternative 2 - 2035			
Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
Terrain Line1	1	6,371,795.5	1,836,325.4	908.00
	2	6,371,641.0	1,836,492.1	931.00
	3	6,371,621.5	1,836,515.8	931.00
	4	6,371,579.5	1,836,535.1	931.00
	5	6,371,520.0	1,836,597.4	932.00
	6	6,371,562.5	1,836,648.1	941.00
	7	6,371,647.0	1,836,692.1	959.00
	8	6,371,657.5	1,836,696.2	959.00
	9	6,371,747.0	1,836,717.0	980.00
	10	6,371,762.5	1,836,722.8	981.70
	11	6,371,774.0	1,836,734.4	980.00
	12	6,371,859.0	1,836,780.8	962.00
	13	6,371,868.0	1,836,785.4	962.00
	14	6,372,024.5	1,836,841.1	927.00
	15	6,372,196.0	1,836,861.1	911.00
	16	6,372,296.0	1,836,896.1	913.40
	17	6,372,359.5	1,836,880.6	912.50
	18	6,372,407.0	1,836,864.6	910.00
	19	6,372,502.5	1,836,758.0	900.50
	20	6,372,477.5	1,836,642.5	895.00
	21	6,372,501.5	1,836,393.6	885.00
	22	6,372,634.0	1,836,137.1	875.00
	23	6,372,767.0	1,835,883.8	865.00
	24	6,372,997.5	1,835,602.8	855.00

	25	6,373,086.0	1,835,529.1	852.00
	26	6,373,096.5	1,835,383.6	852.00
	27	6,373,246.5	1,835,379.0	869.00
	28	6,373,254.5	1,835,378.1	870.00
	29	6,373,389.5	1,835,292.5	907.40
	30	6,373,394.5	1,835,259.8	905.00
	31	6,373,392.0	1,835,231.8	900.00
	32	6,373,381.0	1,835,201.4	890.00
	33	6,373,382.0	1,835,166.6	884.00
	34	6,373,387.5	1,835,123.0	880.00
	35	6,373,398.0	1,835,039.5	867.00
	36	6,373,402.0	1,834,951.6	837.00
	37	6,373,439.5	1,834,878.1	825.00
	38	6,373,445.5	1,834,858.9	823.00
	39	6,373,535.5	1,834,625.2	818.00
	40	6,373,541.5	1,834,358.9	815.00
Terrain Line2	41	6,371,670.0	1,836,253.6	915.00
	42	6,371,747.0	1,836,123.9	911.00
	43	6,371,833.0	1,835,951.0	911.00
	44	6,371,910.5	1,835,837.5	911.00
	45	6,371,911.5	1,835,815.8	912.00
	46	6,371,896.5	1,835,746.8	912.00
	47	6,371,837.0	1,835,596.6	910.00
	48	6,371,847.0	1,835,538.5	908.00
	49	6,371,914.0	1,835,444.0	905.00
	50	6,371,968.0	1,835,396.2	895.00
	51	6,372,061.5	1,835,333.5	888.00
	52	6,372,130.5	1,835,260.9	873.00
	53	6,372,223.0	1,835,144.1	865.00
	54	6,372,283.5	1,835,076.6	861.00
	55	6,372,401.0	1,834,966.2	859.00
	56	6,372,482.5	1,834,880.9	861.00
	57	6,372,511.5	1,834,844.8	864.00
	58	6,372,527.0	1,834,817.2	865.00
	59	6,372,540.0	1,834,787.9	864.00
	60	6,372,550.5	1,834,752.6	864.00

	61	6,372,559.0	1,834,721.5	864.00
	62	6,372,564.5	1,834,685.0	864.00
	63	6,372,559.0	1,834,637.8	864.00
	64	6,372,533.0	1,834,563.8	864.00
Terrain Line3	65	6,370,927.5	1,837,233.0	945.00
	66	6,371,007.5	1,837,209.4	945.00
	67	6,371,155.5	1,837,211.5	970.00
	68	6,371,285.0	1,837,190.5	983.00
	69	6,371,301.0	1,837,187.9	983.20
	70	6,371,330.0	1,837,162.5	983.00
	71	6,371,360.5	1,837,119.5	980.00
	72	6,371,389.0	1,837,040.9	968.00
	73	6,371,405.0	1,837,004.5	951.00
Terrain Line4	75	6,371,126.0	1,836,957.5	941.00
	76	6,371,131.0	1,836,964.9	945.00
	77	6,371,165.0	1,836,985.5	948.00
	78	6,371,233.5	1,837,005.4	950.00
	79	6,371,284.0	1,836,995.6	950.00
	80	6,371,393.5	1,836,995.9	950.00
	81	6,371,419.0	1,837,011.2	950.00
	82	6,371,440.5	1,837,072.0	950.00
	83	6,371,469.0	1,837,170.9	953.00
	84	6,371,512.5	1,837,208.6	954.00
Terrain Line5	85	6,371,541.0	1,837,185.2	951.00
	86	6,371,534.5	1,837,157.4	941.00
	87	6,371,542.0	1,837,136.4	940.00
	88	6,371,566.5	1,837,082.5	940.00
	89	6,371,573.5	1,837,061.8	949.00
	90	6,371,583.5	1,837,026.6	949.00
	91	6,371,569.0	1,836,983.5	949.00
	92	6,371,473.0	1,836,886.9	949.00
	93	6,371,303.5	1,836,869.0	949.00
	94	6,371,246.0	1,836,857.9	949.00
	95	6,371,206.0	1,836,892.2	949.00
	96	6,371,146.0	1,836,961.8	949.00
Terrain Line6	97	6,372,011.5	1,838,160.2	1,001.00

	98	6,371,873.0	1,838,054.9	1,022.00
	99	6,371,810.0	1,837,997.6	1,022.00
	100	6,371,760.0	1,837,983.6	1,022.00
	101	6,371,717.5	1,837,977.1	1,030.00
	102	6,371,679.0	1,837,985.9	1,030.50
	103	6,371,621.0	1,837,990.9	1,026.40
	104	6,371,597.5	1,838,029.9	1,028.00
	105	6,371,551.0	1,838,081.2	1,037.00
	106	6,371,537.5	1,838,103.8	1,041.00
	107	6,371,519.5	1,838,121.5	1,041.00
	108	6,371,473.5	1,838,139.9	1,042.00
	109	6,371,390.0	1,838,133.0	1,045.00
	110	6,371,343.5	1,838,103.9	1,045.00
	111	6,371,314.0	1,838,099.2	1,045.00
	112	6,371,234.5	1,838,041.2	1,040.00
	113	6,371,163.5	1,837,981.6	1,025.00
	114	6,371,079.5	1,837,895.9	1,005.00
	115	6,370,988.5	1,837,843.5	990.00
	116	6,370,740.0	1,837,676.2	960.00
Terrain Line7	117	6,371,013.0	1,836,953.9	936.40
	118	6,370,977.5	1,836,855.1	950.00
	119	6,370,946.0	1,836,781.5	952.40
	120	6,370,919.0	1,836,730.4	950.00
	121	6,370,760.0	1,836,622.0	893.00
	122	6,370,694.5	1,836,656.1	983.00
	123	6,370,648.5	1,836,722.1	896.00
	124	6,370,595.0	1,836,803.6	899.00
	125	6,370,547.0	1,836,906.8	903.00
	126	6,370,548.5	1,836,918.2	910.00
	127	6,370,553.0	1,836,963.4	911.00
	128	6,370,547.5	1,837,009.9	914.00
	129	6,370,530.0	1,837,055.5	918.00
	130	6,370,505.5	1,837,090.1	919.00
	131	6,370,389.0	1,837,187.1	920.00
	132	6,370,318.0	1,837,229.5	930.00
	133	6,370,251.5	1,837,267.1	954.00

	134	6,370,180.5	1,837,293.1	956.00
	135	6,370,152.0	1,837,310.8	959.00
	136	6,370,085.5	1,837,328.5	961.00
	137	6,370,032.5	1,837,372.6	962.00
	138	6,370,008.0	1,837,385.5	964.00
	139	6,369,984.0	1,837,393.8	965.00
	140	6,369,957.5	1,837,390.9	966.00
	141	6,369,935.5	1,837,392.1	967.00
	142	6,369,919.5	1,837,392.1	968.00
	143	6,369,908.0	1,837,398.0	970.00
	144	6,369,883.5	1,837,407.6	971.00
	145	6,369,847.5	1,837,433.1	972.00
	146	6,369,828.5	1,837,447.2	973.00
	147	6,369,777.5	1,837,483.2	974.00
	148	6,369,764.0	1,837,486.8	975.00
	149	6,369,718.0	1,837,491.1	976.00
	150	6,369,692.5	1,837,500.5	988.00
	151	6,369,669.5	1,837,512.9	991.00
	152	6,369,666.0	1,837,498.2	992.00
	153	6,369,644.0	1,837,489.8	991.00
	154	6,369,620.0	1,837,450.2	995.00
	155	6,369,605.0	1,837,366.6	1,000.00
	156	6,369,577.5	1,837,262.1	1,015.00
	157	6,369,506.5	1,836,995.0	1,080.00
	158	6,369,494.0	1,836,975.0	1,083.00
	159	6,369,471.5	1,836,955.5	1,084.90
	160	6,369,469.0	1,836,948.4	1,084.00
	161	6,369,467.0	1,836,885.1	1,075.00
	162	6,369,476.0	1,836,835.6	1,071.70
	163	6,369,467.0	1,836,821.5	1,072.00
	164	6,369,439.5	1,836,719.4	1,077.80
Terrain Line8	165	6,370,564.5	1,835,881.5	903.00
	166	6,370,563.5	1,835,904.4	903.00
	167	6,370,555.0	1,835,917.1	903.00
	168	6,370,543.5	1,835,929.0	903.00
	169	6,370,529.5	1,835,955.4	903.00

	170	6,370,518.0	1,835,970.1	903.00
	171	6,370,534.5	1,835,970.0	903.00
	172	6,370,548.5	1,835,979.9	903.00
	173	6,370,580.0	1,836,016.0	903.00
	174	6,370,611.5	1,836,083.9	903.00
	175	6,370,638.5	1,836,159.8	903.00
	176	6,370,645.5	1,836,229.9	903.00
	177	6,370,623.0	1,836,258.2	903.00
	178	6,370,612.5	1,836,305.4	903.00
	179	6,370,622.5	1,836,311.1	903.00
	180	6,370,709.5	1,836,320.6	903.00
	181	6,370,790.5	1,836,314.9	895.00
	182	6,370,917.0	1,836,302.5	888.00
	183	6,371,051.5	1,836,315.0	901.00
	184	6,371,120.5	1,836,320.1	908.00
	185	6,371,484.0	1,836,299.9	940.00
	186	6,371,710.0	1,836,293.0	905.00
Terrain Line9	187	6,370,148.5	1,837,691.9	1,000.00
	188	6,370,183.5	1,837,668.1	1,000.00
	189	6,370,190.5	1,837,629.2	1,000.00
	190	6,370,186.0	1,837,602.5	1,000.00
	191	6,370,134.5	1,837,598.2	1,000.00
	192	6,370,083.5	1,837,595.9	1,000.00
	193	6,370,071.5	1,837,614.2	1,000.00
	194	6,370,034.0	1,837,630.1	1,000.00
	195	6,370,002.5	1,837,637.0	1,000.00
	196	6,369,955.5	1,837,628.0	1,000.00
	197	6,369,930.5	1,837,642.2	1,000.00
	198	6,369,901.0	1,837,655.9	1,000.00
	199	6,369,890.0	1,837,686.4	1,000.00
	200	6,369,869.5	1,837,668.4	1,000.00
	201	6,369,880.0	1,837,603.5	1,000.00
	202	6,369,814.5	1,837,607.0	1,000.00
	203	6,369,794.5	1,837,615.8	1,000.00
	204	6,369,778.5	1,837,606.4	1,000.00
	205	6,369,730.5	1,837,600.9	1,000.00

	206	6,369,681.0	1,837,593.2	1,000.00
	207	6,369,671.0	1,837,599.8	1,000.00
	208	6,369,656.5	1,837,628.0	1,000.00
	209	6,369,642.0	1,837,643.1	1,000.00
Terrain Line10	210	6,369,889.0	1,837,757.5	1,004.00
	211	6,369,802.0	1,837,746.0	1,013.00
	212	6,369,656.5	1,837,739.0	1,014.00
	213	6,369,637.5	1,837,834.2	1,017.00
Terrain Line11	214	6,371,055.5	1,838,142.2	1,011.00
	215	6,370,876.0	1,838,136.5	995.00
	216	6,370,799.5	1,838,145.8	993.00
	217	6,370,771.0	1,838,144.9	992.00
	218	6,370,733.0	1,838,123.2	992.00
	219	6,370,721.5	1,838,126.6	992.00
	220	6,370,711.5	1,838,141.0	992.00
	221	6,370,712.0	1,838,199.2	992.00
	222	6,370,709.5	1,838,238.9	992.00
	223	6,370,712.0	1,838,280.1	992.00
	224	6,370,725.5	1,838,288.9	992.00
	225	6,370,741.5	1,838,322.8	992.00
Terrain Line12	226	6,371,187.0	1,838,938.6	1,049.00
	227	6,370,868.5	1,838,921.2	1,011.00
	228	6,370,835.0	1,838,918.2	1,008.00
	229	6,370,792.5	1,838,910.6	1,003.00
	230	6,370,765.0	1,838,904.9	999.00
	231	6,370,739.5	1,838,892.2	995.00
	232	6,370,677.0	1,838,858.9	991.00
Terrain Line13	233	6,371,051.5	1,838,642.0	1,040.00
	234	6,370,945.5	1,838,634.6	1,028.00
	235	6,370,872.0	1,838,628.6	1,016.00
	236	6,370,827.5	1,838,628.9	1,010.00
	237	6,370,802.0	1,838,517.9	1,010.00
	238	6,370,802.5	1,838,406.0	1,010.00
	239	6,370,866.5	1,838,409.1	1,010.00
	240	6,370,867.0	1,838,388.8	1,010.00
	241	6,370,871.0	1,838,370.1	1,007.00

Terrain Line14	242	6,370,051.5	1,839,161.1	1,033.00
	243	6,370,422.0	1,839,178.9	1,009.00
	244	6,370,438.5	1,839,122.1	1,006.00
	245	6,370,439.5	1,839,107.1	1,006.00
	246	6,370,439.5	1,839,032.0	1,006.00
	247	6,370,491.5	1,839,003.8	1,002.00
	248	6,370,491.0	1,838,897.0	1,001.00
	249	6,370,472.0	1,838,826.5	999.00
	250	6,370,476.0	1,838,798.6	999.00
	251	6,370,468.5	1,838,704.6	999.00
	252	6,370,436.0	1,838,698.1	999.00
	253	6,370,419.0	1,838,687.6	999.00
	254	6,370,416.0	1,838,614.1	999.00
Terrain Line15	255	6,370,896.0	1,839,011.1	1,010.00
	256	6,370,911.0	1,839,030.9	1,010.00
	257	6,370,917.0	1,839,067.1	1,010.00
	258	6,370,925.5	1,839,082.6	1,010.00
	259	6,370,925.0	1,839,102.8	1,010.00
	260	6,370,925.0	1,839,163.9	1,010.00
	261	6,370,933.5	1,839,191.9	1,010.00
	262	6,370,936.0	1,839,216.8	1,010.00
	263	6,370,966.0	1,839,269.5	1,010.00
	264	6,370,968.0	1,839,303.5	1,010.00
	265	6,370,967.5	1,839,377.1	1,010.00
	266	6,370,939.5	1,839,386.2	1,010.00
	267	6,370,919.5	1,839,375.0	1,010.00
	268	6,370,868.0	1,839,359.9	1,010.00
	269	6,370,845.0	1,839,343.0	1,010.00
	270	6,370,834.5	1,839,318.9	1,010.00
	271	6,370,811.0	1,839,306.0	1,010.00
	272	6,370,764.5	1,839,276.6	1,010.00
	273	6,370,743.5	1,839,270.4	1,010.00
	274	6,370,686.5	1,839,294.0	1,010.00
Terrain Line16	275	6,370,116.0	1,839,507.4	1,080.00
	276	6,370,229.0	1,839,185.2	1,023.00

Ldn Consulting 8 August 2014
Ldn Consulting TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: SR 94 - Jamul Reservation Access
RUN: Alternative 3 - 2035
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
R-1 - 13967 Highway 94	1	1	0.0	63.2	66	63.2	10	----	63.2	0.0	8	-8.0
R-2 - 13975 Highway 94	2	1	0.0	63.0	66	63.0	10	----	63.0	0.0	8	-8.0
R-3 - 14022 Hillside Dr	3	1	0.0	53.7	66	53.7	10	----	53.7	0.0	8	-8.0
R-4 - 14017 Hillside Dr	5	1	0.0	57.1	66	57.1	10	----	57.1	0.0	8	-8.0
R-5 - 14022 Highway 94 A	6	1	0.0	56.6	66	56.6	10	----	56.6	0.0	8	-8.0
R-6 - 14022 Highway 94 B	7	1	0.0	62.6	66	62.6	10	----	62.6	0.0	8	-8.0
R-7 - 14019 Highway 94	8	1	0.0	64.5	66	64.5	10	----	64.5	0.0	8	-8.0
R-8 - 14075 Short Ct	9	1	0.0	56.0	66	56.0	10	----	56.0	0.0	8	-8.0
R-9 - 14027 Hillsdie Dr	10	1	0.0	56.1	66	56.1	10	----	56.1	0.0	8	-8.0
R-10 - 14024 Highway 94	11	1	0.0	57.1	66	57.1	10	----	57.1	0.0	8	-8.0
R-11 - 14023 Campo Dr	12	1	0.0	56.2	66	56.2	10	----	56.2	0.0	8	-8.0
R-12 - 14043 Highway 94	14	1	0.0	52.3	66	52.3	10	----	52.3	0.0	8	-8.0
R-13 - 14051 Campo Rd	15	1	0.0	57.9	66	57.9	10	----	57.9	0.0	8	-8.0
R-14 - 14061 Campo Rd	16	1	0.0	43.9	66	43.9	10	----	43.9	0.0	8	-8.0
R-15 - 14018 Las Palmas Rd	17	1	0.0	58.0	66	58.0	10	----	58.0	0.0	8	-8.0
R-16 - 14013 Las Palmas Rd	18	1	0.0	57.4	66	57.4	10	----	57.4	0.0	8	-8.0
R-17 - 14031 Las Palmas Rd	20	1	0.0	54.6	66	54.6	10	----	54.6	0.0	8	-8.0
R-18 - 14066 Highway 94	21	1	0.0	57.5	66	57.5	10	----	57.5	0.0	8	-8.0
R-19 - 3023 Calle Mesquite	22	1	0.0	50.9	66	50.9	10	----	50.9	0.0	8	-8.0
R-20 - 3015 Calle Mesquite	23	1	0.0	53.3	66	53.3	10	----	53.3	0.0	8	-8.0
R-21 - 3007 Calle Mesquite	24	1	0.0	56.0	66	56.0	10	----	56.0	0.0	8	-8.0
R-22 - 14024 Peaceful Valley Ranch Rd	26	1	0.0	59.0	66	59.0	10	----	59.0	0.0	8	-8.0
R-23 - 14102 Peaceful Valley Ranch Rd	27	1	0.0	44.0	66	44.0	10	----	44.0	0.0	8	-8.0
R-24 - 44114 Campo Rd	28	1	0.0	47.0	66	47.0	10	----	47.0	0.0	8	-8.0

R-25 - Jamul Reservation	30	1	0.0	48.0	66	48.0	10	----	48.0	0.0	8	-8.0
ST-1 - APN: 597-04-126	32	1	0.0	59.4	66	59.4	10	----	59.4	0.0	8	-8.0
ST-2 - 14020 Melody Rd	34	1	0.0	62.7	66	62.7	10	----	62.7	0.0	8	-8.0
ST-3 - 14024 Peaceful Valley Ranch Rd	36	1	0.0	68.3	66	68.3	10	Snd Lvl	68.3	0.0	8	-8.0
LT - 14145 Highway 94	37	1	0.0	63.3	66	63.3	10	----	63.3	0.0	8	-8.0

Dwelling Units	**# DUs**	**Noise Reduction**		
		Min	**Avg**	**Max**
		dB	**dB**	**dB**
All Selected	29	0.0	0.0	0.0
All Impacted	1	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

Ldn Consulting **8 August 2014**
Ldn Consulting **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: **SR 94 - Jamul Reservation Access**
RUN: **Alternative 3 - 2035**

Roadway	Points											
Name	Name	No.	Segment									
			Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
SR-94 SB North of Melody Rd	point1	1	756	45	36	45	25	45	0	0	0	0
	point2	2	756	45	36	45	25	45	0	0	0	0
	point3	3										
SR-94 NB South of Melody Rd	point102	102	629	45	30	45	21	45	0	0	0	0
	point101	101	629	45	30	45	21	45	0	0	0	0
	point100	100	629	45	30	45	21	45	0	0	0	0
	point99	99	629	45	30	45	21	45	0	0	0	0
	point98	98	629	45	30	45	21	45	0	0	0	0
	point97	97	629	45	30	45	21	45	0	0	0	0
	point96	96	629	45	30	45	21	45	0	0	0	0
	point95	95										
Melody Rd WB West of SR-94	point103	103	642	30	30	30	21	30	0	0	0	0
	point104	104	642	30	30	30	21	30	0	0	0	0
	point105	105	642	30	30	30	21	30	0	0	0	0
	point106	106	642	30	30	30	21	30	0	0	0	0
	point107	107	642	30	30	30	21	30	0	0	0	0
	point108	108	642	30	30	30	21	30	0	0	0	0
	point109	109	642	30	30	30	21	30	0	0	0	0
	point110	110										
Melody Rd EB West of SR-94	point140	140	128	30	6	30	4	30	0	0	0	0
	point139	139	128	30	6	30	4	30	0	0	0	0
	point138	138	128	30	6	30	4	30	0	0	0	0
	point137	137	128	30	6	30	4	30	0	0	0	0

	point136	136	128	30	6	30	4	30	0	0	0	0
	point135	135	128	30	6	30	4	30	0	0	0	0
	point134	134	128	30	6	30	4	30	0	0	0	0
	point133	133	128	30	6	30	4	30	0	0	0	0
	point132	132	128	30	6	30	4	30	0	0	0	0
	point131	131	128	30	6	30	4	30	0	0	0	0
	point130	130	128	30	6	30	4	30	0	0	0	0
	point129	129										
Melody Rd WB East of SR-94	point141	141	24	25	1	25	1	25	0	0	0	0
	point142	142	24	25	1	25	1	25	0	0	0	0
	point143	143	24	25	1	25	1	25	0	0	0	0
	point144	144	24	25	1	25	1	25	0	0	0	0
	point145	145	24	25	1	25	1	25	0	0	0	0
	point146	146	24	25	1	25	1	25	0	0	0	0
	point147	147	24	25	1	25	1	25	0	0	0	0
	point148	148	24	25	1	25	1	25	0	0	0	0
	point149	149	24	25	1	25	1	25	0	0	0	0
	point150	150	24	25	1	25	1	25	0	0	0	0
	point151	151	24	25	1	25	1	25	0	0	0	0
	point152	152	24	25	1	25	1	25	0	0	0	0
	point153	153	24	25	1	25	1	25	0	0	0	0
	point154	154	24	25	1	25	1	25	0	0	0	0
	point155	155	24	25	1	25	1	25	0	0	0	0
	point156	156	24	25	1	25	1	25	0	0	0	0
	point157	157										
Melody Rd EB East of SR-94	point174	174	24	25	1	25	1	25	0	0	0	0
	point173	173	24	25	1	25	1	25	0	0	0	0
	point172	172	24	25	1	25	1	25	0	0	0	0
	point171	171	24	25	1	25	1	25	0	0	0	0
	point170	170	24	25	1	25	1	25	0	0	0	0
	point169	169	24	25	1	25	1	25	0	0	0	0
	point168	168	24	25	1	25	1	25	0	0	0	0
	point167	167	24	25	1	25	1	25	0	0	0	0
	point166	166	24	25	1	25	1	25	0	0	0	0
	point165	165	24	25	1	25	1	25	0	0	0	0
	point164	164	24	25	1	25	1	25	0	0	0	0

	point163	163	24	25	1	25	1	25	0	0	0	0
	point162	162	24	25	1	25	1	25	0	0	0	0
	point161	161	24	25	1	25	1	25	0	0	0	0
	point160	160	24	25	1	25	1	25	0	0	0	0
	point159	159	24	25	1	25	1	25	0	0	0	0
	point158	158										
Peacful Valley WB East of SR-94	point190	190	0	0	0	0	0	0	0	0	0	0
	point189	189	0	0	0	0	0	0	0	0	0	0
	point188	188	0	0	0	0	0	0	0	0	0	0
	point187	187	0	0	0	0	0	0	0	0	0	0
	point186	186	0	0	0	0	0	0	0	0	0	0
	point185	185	0	0	0	0	0	0	0	0	0	0
	point184	184	0	0	0	0	0	0	0	0	0	0
	point183	183	0	0	0	0	0	0	0	0	0	0
	point182	182	0	0	0	0	0	0	0	0	0	0
	point181	181	0	0	0	0	0	0	0	0	0	0
	point180	180	0	0	0	0	0	0	0	0	0	0
	point179	179	0	0	0	0	0	0	0	0	0	0
	point178	178	0	0	0	0	0	0	0	0	0	0
	point177	177	0	0	0	0	0	0	0	0	0	0
	point176	176	0	0	0	0	0	0	0	0	0	0
	point175	175										
Peacful Valley EB East of SR-94	point191	191	0	0	0	0	0	0	0	0	0	0
	point192	192	0	0	0	0	0	0	0	0	0	0
	point193	193	0	0	0	0	0	0	0	0	0	0
	point194	194	0	0	0	0	0	0	0	0	0	0
	point195	195	0	0	0	0	0	0	0	0	0	0
	point196	196	0	0	0	0	0	0	0	0	0	0
	point197	197	0	0	0	0	0	0	0	0	0	0
	point198	198	0	0	0	0	0	0	0	0	0	0
	point199	199	0	0	0	0	0	0	0	0	0	0
	point200	200	0	0	0	0	0	0	0	0	0	0
	point201	201	0	0	0	0	0	0	0	0	0	0
	point202	202	0	0	0	0	0	0	0	0	0	0
	point203	203	0	0	0	0	0	0	0	0	0	0
	point204	204	0	0	0	0	0	0	0	0	0	0

	point205	205	0	0	0	0	0	0	0	0	0	0
	point206	206										
Alt_5_SB_Lanes	point207	207	756	45	36	45	25	45	0	0	0	0
	point208	208	756	45	36	45	25	45	0	0	0	0
	point209	209	756	45	36	45	25	45	0	0	0	0
	point210	210	756	45	36	45	25	45	0	0	0	0
	point211	211	756	45	36	45	25	45	0	0	0	0
	point212	212	756	45	36	45	25	45	0	0	0	0
	point213	213	756	45	36	45	25	45	0	0	0	0
	point214	214										
Alt_5_NB_Lanes	point254	254	629	45	30	45	21	45	0	0	0	0
	point253	253	629	45	30	45	21	45	0	0	0	0
	point252	252	629	45	30	45	21	45	0	0	0	0
	point251	251	629	45	30	45	21	45	0	0	0	0
	point250	250	629	45	30	45	21	45	0	0	0	0
	point249	249	629	45	30	45	21	45	0	0	0	0
	point248	248	629	45	30	45	21	45	0	0	0	0
	point247	247	629	45	30	45	21	45	0	0	0	0
	point246	246	629	45	30	45	21	45	0	0	0	0
	point245	245	629	45	30	45	21	45	0	0	0	0
	point244	244	629	45	30	45	21	45	0	0	0	0
	point243	243	629	45	30	45	21	45	0	0	0	0
	point242	242	629	45	30	45	21	45	0	0	0	0
	point241	241	629	45	30	45	21	45	0	0	0	0
	point240	240	629	45	30	45	21	45	0	0	0	0
	point239	239	629	45	30	45	21	45	0	0	0	0
	point238	238										
Alt-5 Access Road	point255	255	315	20	15	20	10	20	0	0	0	0
	point256	256	315	20	15	20	10	20	0	0	0	0
	point257	257	315	20	15	20	10	20	0	0	0	0
	point258	258	315	20	15	20	10	20	0	0	0	0
	point259	259	315	20	15	20	10	20	0	0	0	0
	point260	260	315	20	15	20	10	20	0	0	0	0
	point261	261	315	20	15	20	10	20	0	0	0	0
	point262	262	315	20	15	20	10	20	0	0	0	0
	point263	263	315	20	15	20	10	20	0	0	0	0

	point264	264	315	20	15	20	10	20	0	0	0	0
	point265	265	315	20	15	20	10	20	0	0	0	0
	point266	266	315	20	15	20	10	20	0	0	0	0
	point267	267	315	20	15	20	10	20	0	0	0	0
	point268	268	315	20	15	20	10	20	0	0	0	0
	point269	269	315	20	15	20	10	20	0	0	0	0
	point270	270	315	20	15	20	10	20	0	0	0	0
	point271	271	315	20	15	20	10	20	0	0	0	0
	point272	272	315	20	15	20	10	20	0	0	0	0
	point273	273	315	20	15	20	10	20	0	0	0	0
	point274	274	315	20	15	20	10	20	0	0	0	0
	point275	275	315	20	15	20	10	20	0	0	0	0
	point276	276	315	20	15	20	10	20	0	0	0	0
	point277	277										
SR-94 SB South of Melody Rd-2	point279	279	629	45	30	45	21	45	0	0	0	0
	point58	58	629	45	30	45	21	45	0	0	0	0
	point59	59	629	45	30	45	21	45	0	0	0	0
	point60	60	629	45	30	45	21	45	0	0	0	0
	point61	61	629	45	30	45	21	45	0	0	0	0
	point62	62	629	45	30	45	21	45	0	0	0	0
	point63	63	629	45	30	45	21	45	0	0	0	0
	point64	64										
SR-94 NB North of Melody Rd-2	point280	280	756	45	36	45	25	45	0	0	0	0
	point15	15	756	45	36	45	25	45	0	0	0	0
	point14	14										
Alt_5_SB_Lanes-2	point282	282	629	45	30	45	21	45	0	0	0	0
	point215	215	629	45	30	45	21	45	0	0	0	0
	point216	216	629	45	30	45	21	45	0	0	0	0
	point217	217	629	45	30	45	21	45	0	0	0	0
	point218	218	629	45	30	45	21	45	0	0	0	0
	point219	219	629	45	30	45	21	45	0	0	0	0
	point220	220	629	45	30	45	21	45	0	0	0	0
	point221	221	629	45	30	45	21	45	0	0	0	0
	point222	222	629	45	30	45	21	45	0	0	0	0
	point223	223	629	45	30	45	21	45	0	0	0	0
	point224	224	629	45	30	45	21	45	0	0	0	0

	point225	225	629	45	30	45	21	45	0	0	0	0
	point226	226	629	45	30	45	21	45	0	0	0	0
	point227	227	629	45	30	45	21	45	0	0	0	0
	point228	228	629	45	30	45	21	45	0	0	0	0
	point229	229	629	45	30	45	21	45	0	0	0	0
	point230	230										
Alt_5_NB_Lanes-2	point283	283	756	45	36	45	25	45	0	0	0	0
	point237	237	756	45	36	45	25	45	0	0	0	0
	point236	236	756	45	36	45	25	45	0	0	0	0
	point235	235	756	45	36	45	25	45	0	0	0	0
	point234	234	756	45	36	45	25	45	0	0	0	0
	point233	233	756	45	36	45	25	45	0	0	0	0
	point232	232	756	45	36	45	25	45	0	0	0	0
	point231	231										
Melody Rd EB West of SR-94-2	point284	284	642	30	30	30	21	30	0	0	0	0
	point128	128	642	30	30	30	21	30	0	0	0	0
	point127	127	642	30	30	30	21	30	0	0	0	0
	point126	126	642	30	30	30	21	30	0	0	0	0
	point125	125	642	30	30	30	21	30	0	0	0	0
	point124	124	642	30	30	30	21	30	0	0	0	0
	point123	123	642	30	30	30	21	30	0	0	0	0
	point122	122										
Melody Rd WB West of SR-94-2	point285	285	128	30	6	30	4	30	0	0	0	0
	point111	111	128	30	6	30	4	30	0	0	0	0
	point112	112	128	30	6	30	4	30	0	0	0	0
	point113	113	128	30	6	30	4	30	0	0	0	0
	point114	114	128	30	6	30	4	30	0	0	0	0
	point115	115	128	30	6	30	4	30	0	0	0	0
	point116	116	128	30	6	30	4	30	0	0	0	0
	point117	117	128	30	6	30	4	30	0	0	0	0
	point118	118	128	30	6	30	4	30	0	0	0	0
	point119	119	128	30	6	30	4	30	0	0	0	0
	point120	120	128	30	6	30	4	30	0	0	0	0
	point121	121										

Ldn Consulting 8 August 2014
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INPUT: RECEIVERS
PROJECT/CONTRACT: SR 94 - Jamul Reservation Access
RUN: Alternative 3 - 2035

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria Existing LAeq1h	Impact Criteria LAeq1h	Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
R-1 - 13967 Highway 94	1	1	6,370,558.5	1,839,906.5	1,034.00	4.92	0.00	66	10.0	8.0	Y
R-2 - 13975 Highway 94	2	1	6,370,532.5	1,839,782.0	1,030.00	4.92	0.00	66	10.0	8.0	Y
R-3 - 14022 Hillside Dr	3	1	6,370,971.5	1,839,692.2	1,031.00	4.92	0.00	66	10.0	8.0	Y
R-4 - 14017 Hillside Dr	5	1	6,370,862.5	1,839,376.1	1,010.00	4.92	0.00	66	10.0	8.0	Y
R-5 - 14022 Highway 94 A	6	1	6,370,820.5	1,839,166.4	1,007.00	4.92	0.00	66	10.0	8.0	Y
R-6 - 14022 Highway 94 B	7	1	6,370,720.0	1,839,161.8	1,007.00	4.92	0.00	66	10.0	8.0	Y
R-7 - 14019 Highway 94	8	1	6,370,584.0	1,839,275.4	1,007.00	4.92	0.00	66	10.0	8.0	Y
R-8 - 14075 Short Ct	9	1	6,370,376.0	1,839,044.6	1,014.00	4.92	0.00	66	10.0	8.0	Y
R-9 - 14027 Hillsdie Dr	10	1	6,371,060.0	1,839,115.8	1,035.00	4.92	0.00	66	10.0	8.0	Y
R-10 - 14024 Highway 94	11	1	6,370,898.0	1,838,976.9	1,014.00	4.92	0.00	66	10.0	8.0	Y
R-11 - 14023 Campo Dr	12	1	6,370,414.5	1,838,893.0	1,005.00	4.92	0.00	66	10.0	8.0	Y
R-12 - 14043 Highway 94	14	1	6,370,396.0	1,838,738.2	1,001.00	4.92	0.00	66	10.0	8.0	Y
R-13 - 14051 Campo Rd	15	1	6,370,375.0	1,838,565.6	1,003.00	4.92	0.00	66	10.0	8.0	Y
R-14 - 14061 Campo Rd	16	1	6,370,436.0	1,838,446.0	985.00	4.92	0.00	66	10.0	8.0	Y
R-15 - 14018 Las Palmas Rd	17	1	6,370,843.0	1,838,530.5	1,010.00	4.92	0.00	66	10.0	8.0	Y
R-16 - 14013 Las Palmas Rd	18	1	6,370,828.5	1,838,266.2	994.00	4.92	0.00	66	10.0	8.0	Y
R-17 - 14031 Las Palmas Rd	20	1	6,371,023.0	1,838,146.8	1,005.00	4.92	0.00	66	10.0	8.0	Y
R-18 - 14066 Highway 94	21	1	6,371,003.0	1,838,029.5	1,010.00	4.92	0.00	66	10.0	8.0	Y
R-19 - 3023 Calle Mesquite	22	1	6,369,754.5	1,837,925.4	1,016.00	4.92	0.00	66	10.0	8.0	Y
R-20 - 3015 Calle Mesquite	23	1	6,369,772.5	1,837,777.9	1,018.00	4.92	0.00	66	10.0	8.0	Y
R-21 - 3007 Calle Mesquite	24	1	6,369,766.5	1,837,652.1	1,002.00	4.92	0.00	66	10.0	8.0	Y
R-22 - 14024 Peaceful Valley Ranch Rd	26	1	6,371,362.0	1,836,883.2	948.00	4.92	0.00	66	10.0	8.0	Y

R-23 - 14102 Peaceful Valley Ranch Rd	27	1	6,372,137.0	1,837,447.2	947.00	4.92	0.00	66	10.0	8.0	Y
R-24 - 44114 Campo Rd	28	1	6,372,855.0	1,836,707.5	934.00	4.92	0.00	66	10.0	8.0	Y
R-25 - Jamul Reservation	30	1	6,370,702.5	1,836,278.4	898.00	4.92	0.00	66	10.0	8.0	Y
ST-1 - APN: 597-04-126	32	1	6,370,859.0	1,838,704.5	1,009.00	4.92	0.00	66	10.0	8.0	Y
ST-2 - 14020 Melody Rd	34	1	6,370,104.0	1,837,642.0	1,001.50	4.92	0.00	66	10.0	8.0	Y
ST-3 - 14024 Peaceful Valley Ranch Rd	36	1	6,371,617.0	1,836,500.5	923.00	4.92	0.00	66	10.0	8.0	Y
LT - 14145 Highway 94	37	1	6,371,208.0	1,836,635.8	930.00	4.92	0.00	66	10.0	8.0	Y

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INPUT: BARRIERS
PROJECT/CONTRACT: **SR 94 - Jamul Reservation Access**
RUN: **Alternative 3 - 2035**

Barrier Name	Type	Height Min	Height Max	If Wall $ per Unit Area	If Berm $ per Unit Vol.	Top Width	Run:Rise	Add'tnl $ per Unit Length	Points Name	No.	Coordinates (bottom) X	Y	Z	Height at Point	Segment Seg Ht Increment	Perturbs #Up	#Dn	On Struct?	Important Reflections?
		ft	ft	$/sq ft	$/cu yd	ft	ft:ft	$/ft			ft	ft	ft	ft	ft				
13857 Meldoy Rd	W	13.98	13.98	0.00				0.00	point1	1	6,368,830.5	1,837,302.4	1,051.00	13.98	0.00	0	0		
									point2	2	6,368,808.0	1,837,288.8	1,051.00	13.98	0.00	0	0		
									point3	3	6,368,813.5	1,837,280.2	1,051.00	13.98	0.00	0	0		
									point4	4	6,368,791.5	1,837,267.0	1,051.00	13.98	0.00	0	0		
									point5	5	6,368,809.5	1,837,237.2	1,051.00	13.98	0.00	0	0		
									point6	6	6,368,800.0	1,837,231.2	1,051.00	13.98	0.00	0	0		
									point7	7	6,368,811.0	1,837,212.9	1,051.00	13.98	0.00	0	0		
									point8	8	6,368,847.0	1,837,234.9	1,051.00	13.98	0.00	0	0		
									point9	9	6,368,826.5	1,837,268.9	1,051.00	13.98	0.00	0	0		
									point10	10	6,368,844.5	1,837,279.6	1,051.00	13.98	0.00	0	0		
									point11	11	6,368,830.5	1,837,302.4	1,051.00	13.98					
13861 Melody Rd	W	13.98	13.98	0.00				0.00	point12	12	6,368,976.5	1,837,239.9	1,047.00	13.98	0.00	0	0		
									point13	13	6,368,946.0	1,837,240.8	1,047.00	13.98	0.00	0	0		
									point14	14	6,368,945.5	1,837,225.0	1,047.00	13.98	0.00	0	0		
									point15	15	6,368,935.5	1,837,225.2	1,047.00	13.98	0.00	0	0		
									point16	16	6,368,936.0	1,837,248.1	1,047.00	13.98	0.00	0	0		
									point17	17	6,368,909.5	1,837,248.8	1,047.00	13.98	0.00	0	0		
									point18	18	6,368,908.0	1,837,195.5	1,047.00	13.98	0.00	0	0		
									point19	19	6,368,975.5	1,837,193.8	1,047.00	13.98	0.00	0	0		
									point20	20	6,368,976.5	1,837,239.9	1,047.00	13.98					
3002 Calle Allejandro	W	13.98	13.98	0.00				0.00	point21	21	6,368,764.0	1,837,603.0	1,032.00	13.98	0.00	0	0		
									point22	22	6,368,783.0	1,837,592.8	1,032.00	13.98	0.00	0	0		
									point23	23	6,368,793.0	1,837,593.0	1,032.00	13.98	0.00	0	0		
									point24	24	6,368,793.0	1,837,598.0	1,032.00	13.98	0.00	0	0		
									point25	25	6,368,796.5	1,837,597.9	1,032.00	13.98	0.00	0	0		
									point26	26	6,368,796.5	1,837,609.2	1,032.00	13.98	0.00	0	0		
									point27	27	6,368,802.0	1,837,609.0	1,032.00	13.98	0.00	0	0		
									point28	28	6,368,801.5	1,837,621.1	1,032.00	13.98	0.00	0	0		
									point29	29	6,368,828.0	1,837,622.0	1,032.00	13.98	0.00	0	0		
									point30	30	6,368,828.0	1,837,615.5	1,032.00	13.98	0.00	0	0		
									point31	31	6,368,840.0	1,837,615.9	1,032.00	13.98	0.00	0	0		
									point32	32	6,368,840.0	1,837,614.6	1,032.00	13.98	0.00	0	0		
									point33	33	6,368,850.5	1,837,614.9	1,032.00	13.98	0.00	0	0		
									point34	34	6,368,851.0	1,837,606.5	1,032.00	13.98	0.00	0	0		
									point35	35	6,368,854.0	1,837,606.6	1,032.00	13.98	0.00	0	0		

									point36	36	6,368,854.5	1,837,590.0	1,032.00	13.98	0.00	0	0		
									point37	37	6,368,856.5	1,837,589.8	1,032.00	13.98	0.00	0	0		
									point38	38	6,368,857.5	1,837,568.9	1,032.00	13.98	0.00	0	0		
									point39	39	6,368,835.0	1,837,568.0	1,032.00	13.98	0.00	0	0		
									point40	40	6,368,835.0	1,837,563.9	1,032.00	13.98	0.00	0	0		
									point41	41	6,368,795.0	1,837,562.9	1,032.00	13.98	0.00	0	0		
									point42	42	6,368,795.0	1,837,566.4	1,032.00	13.98	0.00	0	0		
									point43	43	6,368,776.0	1,837,565.8	1,032.00	13.98	0.00	0	0		
									point44	44	6,368,750.5	1,837,580.1	1,032.00	13.98	0.00	0	0		
									point45	45	6,368,764.0	1,837,603.0	1,032.00	13.98					
3003 Calle Allejandro	W	13.98	13.98	0.00				0.00	point46	46	6,368,996.5	1,837,670.1	1,020.00	13.98	0.00	0	0		
									point47	47	6,369,013.5	1,837,691.0	1,020.00	13.98	0.00	0	0		
									point48	48	6,369,040.0	1,837,669.2	1,020.00	13.98	0.00	0	0		
									point49	49	6,369,044.0	1,837,674.0	1,020.00	13.98	0.00	0	0		
									point50	50	6,369,042.5	1,837,675.4	1,020.00	13.98	0.00	0	0		
									point51	51	6,369,052.5	1,837,687.6	1,020.00	13.98	0.00	0	0		
									point52	52	6,369,054.0	1,837,686.2	1,020.00	13.98	0.00	0	0		
									point53	53	6,369,057.5	1,837,690.1	1,020.00	13.98	0.00	0	0		
									point54	54	6,369,055.5	1,837,691.6	1,020.00	13.98	0.00	0	0		
									point55	55	6,369,066.5	1,837,704.9	1,020.00	13.98	0.00	0	0		
									point56	56	6,369,091.0	1,837,684.6	1,020.00	13.98	0.00	0	0		
									point57	57	6,369,071.5	1,837,660.8	1,020.00	13.98	0.00	0	0		
									point58	58	6,369,073.5	1,837,658.9	1,020.00	13.98	0.00	0	0		
									point59	59	6,369,068.0	1,837,651.9	1,020.00	13.98	0.00	0	0		
									point60	60	6,369,070.5	1,837,649.9	1,020.00	13.98	0.00	0	0		
									point61	61	6,369,059.5	1,837,636.5	1,020.00	13.98	0.00	0	0		
									point62	62	6,369,057.5	1,837,638.0	1,020.00	13.98	0.00	0	0		
									point63	63	6,369,047.0	1,837,625.1	1,020.00	13.98	0.00	0	0		
									point64	64	6,369,026.5	1,837,641.9	1,020.00	13.98	0.00	0	0		
									point65	65	6,369,028.0	1,837,644.0	1,020.00	13.98	0.00	0	0		
									point66	66	6,368,996.5	1,837,670.1	1,020.00	13.98					
3006 Calle Mesquite	W	13.98	13.98	0.00				0.00	point67	67	6,369,469.5	1,837,703.5	1,007.00	13.98	0.00	0	0		
									point68	68	6,369,549.5	1,837,706.9	1,007.00	13.98	0.00	0	0		
									point69	69	6,369,550.0	1,837,687.1	1,007.00	13.98	0.00	0	0		
									point70	70	6,369,538.5	1,837,686.6	1,007.00	13.98	0.00	0	0		
									point71	71	6,369,538.5	1,837,683.0	1,007.00	13.98	0.00	0	0		
									point72	72	6,369,533.0	1,837,682.8	1,007.00	13.98	0.00	0	0		
									point73	73	6,369,533.0	1,837,670.2	1,007.00	13.98	0.00	0	0		
									point74	74	6,369,539.5	1,837,665.5	1,007.00	13.98	0.00	0	0		
									point75	75	6,369,561.5	1,837,665.8	1,007.00	13.98	0.00	0	0		
									point76	76	6,369,562.5	1,837,640.2	1,007.00	13.98	0.00	0	0		
									point77	77	6,369,479.0	1,837,638.8	1,007.00	13.98	0.00	0	0		
									point78	78	6,369,480.5	1,837,674.9	1,007.00	13.98	0.00	0	0		
									point79	79	6,369,463.5	1,837,674.1	1,007.00	13.98	0.00	0	0		
									point80	80	6,369,463.0	1,837,691.5	1,007.00	13.98	0.00	0	0		
									point81	81	6,369,470.0	1,837,691.8	1,007.00	13.98	0.00	0	0		
									point82	82	6,369,469.5	1,837,701.4	1,007.00	13.98					
3010 Calle Mesquite	W	13.98	13.98	0.00				0.00	point83	83	6,369,450.0	1,837,856.6	1,025.00	13.98	0.00	0	0		
									point84	84	6,369,489.5	1,837,853.1	1,025.00	13.98	0.00	0	0		

									point85	85	6,369,488.0	1,837,837.2	1,025.00	13.98	0.00	0	0		
									point86	86	6,369,495.0	1,837,836.6	1,025.00	13.98	0.00	0	0		
									point87	87	6,369,494.0	1,837,828.0	1,025.00	13.98	0.00	0	0		
									point88	88	6,369,491.5	1,837,828.2	1,025.00	13.98	0.00	0	0		
									point89	89	6,369,490.5	1,837,815.1	1,025.00	13.98	0.00	0	0		
									point90	90	6,369,489.0	1,837,815.2	1,025.00	13.98	0.00	0	0		
									point91	91	6,369,485.0	1,837,769.9	1,025.00	13.98	0.00	0	0		
									point92	92	6,369,458.0	1,837,772.2	1,025.00	13.98	0.00	0	0		
									point93	93	6,369,460.5	1,837,799.5	1,025.00	13.98	0.00	0	0		
									point94	94	6,369,445.0	1,837,800.9	1,025.00	13.98	0.00	0	0		
									point95	95	6,369,450.0	1,837,856.6	1,025.00	13.98					
3015 Calle Mesquite	W	13.98	13.98	0.00				0.00	point96	96	6,369,749.0	1,837,752.2	1,018.00	13.98	0.00	0	0		
									point97	97	6,369,746.0	1,837,795.8	1,018.00	13.98	0.00	0	0		
									point98	98	6,369,756.5	1,837,796.5	1,018.00	13.98	0.00	0	0		
									point99	99	6,369,754.5	1,837,822.5	1,018.00	13.98	0.00	0	0		
									point100	100	6,369,757.5	1,837,822.8	1,018.00	13.98	0.00	0	0		
									point101	101	6,369,762.5	1,837,828.5	1,018.00	13.98	0.00	0	9		
									point102	102	6,369,762.0	1,837,835.9	1,018.00	13.98	0.00	0	0		
									point103	103	6,369,757.0	1,837,840.2	1,018.00	13.98	0.00	0	0		
									point104	104	6,369,753.0	1,837,839.9	1,018.00	13.98	0.00	0	0		
									point105	105	6,369,752.5	1,837,843.1	1,018.00	13.98	0.00	0	0		
									point106	106	6,369,733.0	1,837,841.5	1,018.00	13.98	0.00	0	0		
									point107	107	6,369,731.5	1,837,855.0	1,018.00	13.98	0.00	0	0		
									point108	108	6,369,735.0	1,837,855.2	1,018.00	13.98	0.00	0	0		
									point109	109	6,369,734.5	1,837,864.1	1,018.00	13.98	0.00	0	0		
									point110	110	6,369,707.0	1,837,861.9	1,018.00	13.98	0.00	0	0		
									point111	111	6,369,709.5	1,837,840.1	1,018.00	13.98	0.00	0	0		
									point112	112	6,369,702.5	1,837,839.6	1,018.00	13.98	0.00	0	0		
									point113	113	6,369,703.0	1,837,832.6	1,018.00	13.98	0.00	0	0		
									point114	114	6,369,685.5	1,837,831.2	1,018.00	13.98	0.00	0	0		
									point115	115	6,369,686.0	1,837,825.4	1,018.00	13.98	0.00	0	0		
									point116	116	6,369,682.0	1,837,825.0	1,018.00	13.98	0.00	0	0		
									point117	117	6,369,683.5	1,837,804.9	1,018.00	13.98	0.00	0	0		
									point118	118	6,369,687.5	1,837,805.2	1,018.00	13.98	0.00	0	0		
									point119	119	6,369,688.0	1,837,799.1	1,018.00	13.98	0.00	0	0		
									point120	120	6,369,705.0	1,837,800.5	1,018.00	13.98	0.00	0	0		
									point121	121	6,369,705.5	1,837,793.1	1,018.00	13.98	0.00	0	0		
									point122	122	6,369,710.5	1,837,793.5	1,018.00	13.98	0.00	0	0		
									point123	123	6,369,713.5	1,837,775.4	1,018.00	13.98	0.00	0	0		
									point124	124	6,369,718.5	1,837,775.1	1,018.00	13.98	0.00	0	0		
									point125	125	6,369,721.0	1,837,750.0	1,018.00	13.98	0.00	0	0		
									point126	126	6,369,749.0	1,837,752.2	1,018.00	13.98					
3007 Calle Mesquite	W	13.98	13.98	0.00				0.00	point127	127	6,369,684.0	1,837,623.5	1,003.00	13.98	0.00	0	0		
									point128	128	6,369,680.5	1,837,660.8	1,003.00	13.98	0.00	0	0		
									point129	129	6,369,713.0	1,837,663.0	1,003.00	13.98	0.00	0	0		
									point130	130	6,369,709.0	1,837,707.1	1,003.00	13.98	0.00	0	0		
									point131	131	6,369,751.0	1,837,710.4	1,003.00	13.98	0.00	0	0		
									point132	132	6,369,759.0	1,837,631.1	1,003.00	13.98	0.00	0	0		
									point133	133	6,369,684.0	1,837,623.5	1,003.00	13.98					

14061 Campo Rd	W	13.98	13.98	0.00				0.00	point134	134	6,370,485.5	1,838,490.9	985.00	13.98	0.00	0	0		
									point135	135	6,370,478.5	1,838,490.9	985.00	13.98	0.00	0	0		
									point136	136	6,370,478.5	1,838,489.9	985.00	13.98	0.00	0	0		
									point137	137	6,370,447.5	1,838,489.8	985.00	13.98	0.00	0	0		
									point138	138	6,370,447.5	1,838,490.6	985.00	13.98	0.00	0	0		
									point139	139	6,370,441.0	1,838,490.6	985.00	13.98	0.00	0	0		
									point140	140	6,370,441.5	1,838,454.2	985.00	13.98	0.00	0	0		
									point141	141	6,370,446.5	1,838,454.2	985.00	13.98	0.00	0	0		
									point142	142	6,370,446.5	1,838,418.9	985.00	13.98	0.00	0	0		
									point143	143	6,370,417.5	1,838,418.6	985.00	13.98	0.00	0	0		
									point144	144	6,370,418.0	1,838,389.8	985.00	13.98	0.00	0	0		
									point145	145	6,370,481.0	1,838,390.2	985.00	13.98	0.00	0	0		
									point146	146	6,370,480.5	1,838,454.8	985.00	13.98	0.00	0	0		
									point147	147	6,370,486.0	1,838,454.8	985.00	13.98	0.00	0	0		
									point148	148	6,370,485.5	1,838,490.9	985.00	13.98					
14043 Highway 94	W	13.98	13.98	0.00				0.00	point149	149	6,370,459.0	1,838,795.4	1,000.00	13.98	0.00	0	0		
									point150	150	6,370,421.5	1,838,795.2	1,000.00	13.98	0.00	0	0		
									point151	151	6,370,421.5	1,838,788.5	1,000.00	13.98	0.00	0	0		
									point152	152	6,370,411.0	1,838,788.5	1,000.00	13.98	0.00	0	0		
									point153	153	6,370,411.5	1,838,754.5	1,000.00	13.98	0.00	0	0		
									point154	154	6,370,421.0	1,838,754.5	1,000.00	13.98	0.00	0	0		
									point155	155	6,370,421.0	1,838,714.2	1,000.00	13.98	0.00	0	0		
									point156	156	6,370,459.5	1,838,714.4	1,000.00	13.98	0.00	0	0		
									point157	157	6,370,459.0	1,838,795.4	1,000.00	13.98					
14023 Campo Rd	W	13.98	13.98	0.00				0.00	point158	158	6,370,480.5	1,838,895.0	1,002.00	13.98	0.00	0	0		
									point159	159	6,370,478.5	1,838,947.8	1,002.00	13.98	0.00	0	0		
									point160	160	6,370,462.0	1,838,947.1	1,002.00	13.98	0.00	0	0		
									point161	161	6,370,461.0	1,838,977.1	1,002.00	13.98	0.00	0	0		
									point162	162	6,370,431.5	1,838,976.2	1,002.00	13.98	0.00	0	0		
									point163	163	6,370,432.5	1,838,943.9	1,002.00	13.98	0.00	0	0		
									point164	164	6,370,421.0	1,838,943.5	1,002.00	13.98	0.00	0	0		
									point165	165	6,370,422.5	1,838,893.1	1,002.00	13.98	0.00	0	0		
									point166	166	6,370,480.5	1,838,895.0	1,002.00	13.98					
14075 Short Ct	W	13.98	13.98	0.00				0.00	point167	167	6,370,437.0	1,839,078.0	1,006.00	13.98	0.00	0	0		
									point168	168	6,370,403.0	1,839,078.5	1,006.00	13.98	0.00	0	0		
									point169	169	6,370,403.0	1,839,112.4	1,006.00	13.98	0.00	0	0		
									point170	170	6,370,360.5	1,839,113.5	1,006.00	13.98	0.00	0	0		
									point171	171	6,370,359.5	1,839,054.0	1,006.00	13.98	0.00	0	0		
									point172	172	6,370,401.0	1,839,053.2	1,006.00	13.98	0.00	0	0		
									point173	173	6,370,401.0	1,839,050.9	1,006.00	13.98	0.00	0	0		
									point174	174	6,370,436.5	1,839,050.2	1,006.00	13.98	0.00	0	0		
									point175	175	6,370,437.0	1,839,078.0	1,006.00	13.98					
14022 Highway 94 A	W	13.98	13.98	0.00				0.00	point176	176	6,370,749.5	1,839,200.6	1,008.00	13.98	0.00	0	0		
									point177	177	6,370,703.5	1,839,198.1	1,008.00	13.98	0.00	0	0		
									point178	178	6,370,704.5	1,839,185.4	1,008.00	13.98	0.00	0	0		
									point179	179	6,370,702.0	1,839,185.1	1,008.00	13.98	0.00	0	0		
									point180	180	6,370,703.0	1,839,172.1	1,008.00	13.98	0.00	0	0		
									point181	181	6,370,719.5	1,839,173.1	1,008.00	13.98	0.00	0	0		
									point182	182	6,370,719.5	1,839,168.0	1,008.00	13.98	0.00	0	0		

									point183	183	6,370,727.5	1,839,168.5	1,008.00	13.98	0.00	0	0		
									point184	184	6,370,727.5	1,839,173.4	1,008.00	13.98	0.00	0	0		
									point185	185	6,370,750.5	1,839,174.8	1,008.00	13.98	0.00	0	0		
									point186	186	6,370,749.5	1,839,200.6	1,008.00	13.98					
14022 Highway 94 B	W	13.98	13.98	0.00				0.00	point187	187	6,370,792.0	1,839,193.2	1,008.00	13.98	0.00	0	0		
									point188	188	6,370,831.5	1,839,193.4	1,008.00	13.98	0.00	0	0		
									point189	189	6,370,832.0	1,839,173.8	1,008.00	13.98	0.00	0	0		
									point190	190	6,370,792.0	1,839,173.6	1,008.00	13.98	0.00	0	0		
									point191	191	6,370,792.0	1,839,193.2	1,008.00	13.98					
14024 Highway 94	W	13.98	13.98	0.00				0.00	point192	192	6,370,906.5	1,838,959.0	1,014.00	13.98	0.00	0	0		
									point193	193	6,370,904.5	1,838,999.6	1,014.00	13.98	0.00	0	0		
									point194	194	6,370,923.0	1,839,000.6	1,014.00	13.98	0.00	0	0		
									point195	195	6,370,923.0	1,838,994.9	1,014.00	13.98	0.00	0	0		
									point196	196	6,370,926.0	1,838,995.1	1,014.00	13.98	0.00	0	0		
									point197	197	6,370,925.0	1,839,012.5	1,014.00	13.98	0.00	0	0		
									point198	198	6,370,951.0	1,839,013.9	1,014.00	13.98	0.00	0	0		
									point199	199	6,370,951.5	1,839,001.8	1,014.00	13.98	0.00	0	0		
									point200	200	6,370,957.5	1,839,002.0	1,014.00	13.98	0.00	0	0		
									point201	201	6,370,959.5	1,838,961.9	1,014.00	13.98	0.00	0	0		
									point202	202	6,370,906.5	1,838,959.0	1,014.00	13.98					
14018 Las Palmas Rd	W	13.98	13.98	0.00				0.00	point203	203	6,370,828.0	1,838,415.0	1,011.00	13.98	0.00	0	0		
									point204	204	6,370,827.5	1,838,430.5	1,011.00	13.98	0.00	0	0		
									point205	205	6,370,839.0	1,838,430.6	1,011.00	13.98	0.00	0	0		
									point206	206	6,370,839.0	1,838,439.1	1,011.00	13.98	0.00	0	0		
									point207	207	6,370,823.5	1,838,439.0	1,011.00	13.98	0.00	0	0		
									point208	208	6,370,823.5	1,838,430.6	1,011.00	13.98	0.00	0	0		
									point209	209	6,370,806.0	1,838,430.5	1,011.00	13.98	0.00	0	0		
									point210	210	6,370,805.5	1,838,461.2	1,011.00	13.98	0.00	0	0		
									point211	211	6,370,813.0	1,838,461.4	1,011.00	13.98	0.00	0	0		
									point212	212	6,370,813.0	1,838,475.9	1,011.00	13.98	0.00	0	0		
									point213	213	6,370,828.0	1,838,476.0	1,011.00	13.98	0.00	0	0		
									point214	214	6,370,828.0	1,838,478.8	1,011.00	13.98	0.00	0	0		
									point215	215	6,370,840.0	1,838,478.9	1,011.00	13.98	0.00	0	0		
									point216	216	6,370,840.0	1,838,474.4	1,011.00	13.98	0.00	0	0		
									point217	217	6,370,856.0	1,838,474.5	1,011.00	13.98	0.00	0	0		
									point218	218	6,370,856.0	1,838,450.5	1,011.00	13.98	0.00	0	0		
									point219	219	6,370,871.0	1,838,450.6	1,011.00	13.98	0.00	0	0		
									point220	220	6,370,871.5	1,838,422.2	1,011.00	13.98	0.00	0	0		
									point221	221	6,370,858.0	1,838,422.1	1,011.00	13.98	0.00	0	0		
									point222	222	6,370,858.0	1,838,418.5	1,011.00	13.98	0.00	0	0		
									point223	223	6,370,842.5	1,838,418.4	1,011.00	13.98	0.00	0	0		
									point224	224	6,370,842.5	1,838,415.1	1,011.00	13.98	0.00	0	0		
									point225	225	6,370,828.0	1,838,415.0	1,011.00	13.98					
14013 Las Palmas Rd	W	13.98	13.98	0.00				0.00	point226	226	6,370,872.5	1,838,285.2	996.00	13.98	0.00	0	0		
									point227	227	6,370,843.0	1,838,285.4	996.00	13.98	0.00	0	0		
									point228	228	6,370,842.5	1,838,261.8	996.00	13.98	0.00	0	0		
									point229	229	6,370,838.5	1,838,261.8	996.00	13.98	0.00	0	0		
									point230	230	6,370,838.5	1,838,241.5	996.00	13.98	0.00	0	0		
									point231	231	6,370,810.5	1,838,241.8	996.00	13.98	0.00	0	0		

									point232	232	6,370,810.5	1,838,200.2	996.00	13.98	0.00	0	0		
									point233	233	6,370,834.0	1,838,200.1	996.00	13.98	0.00	0	0		
									point234	234	6,370,834.0	1,838,177.1	996.00	13.98	0.00	0	0		
									point235	235	6,370,872.0	1,838,177.0	996.00	13.98	0.00	0	0		
									point236	236	6,370,872.0	1,838,203.6	996.00	13.98	0.00	0	0		
									point237	237	6,370,870.0	1,838,203.6	996.00	13.98	0.00	0	0		
									point238	238	6,370,870.0	1,838,237.5	996.00	13.98	0.00	0	0		
									point239	239	6,370,872.0	1,838,237.5	996.00	13.98	0.00	0	0		
									point240	240	6,370,872.5	1,838,285.2	996.00	13.98					
Fire House	W	13.98	13.98	0.00				0.00	point241	241	6,371,417.0	1,836,939.6	948.00	13.98	0.00	0	0		
									point242	242	6,371,421.0	1,836,894.8	948.00	13.98	0.00	0	0		
									point243	243	6,371,419.5	1,836,894.6	948.00	13.98	0.00	0	0		
									point244	244	6,371,420.0	1,836,885.2	948.00	13.98	0.00	0	0		
									point245	245	6,371,373.0	1,836,880.4	948.00	13.98	0.00	0	0		
									point246	246	6,371,372.5	1,836,891.0	948.00	13.98	0.00	0	0		
									point247	247	6,371,313.5	1,836,886.9	948.00	13.98	0.00	0	0		
									point248	248	6,371,312.0	1,836,901.5	948.00	13.98	0.00	0	0		
									point249	249	6,371,297.0	1,836,900.2	948.00	13.98	0.00	0	0		
									point250	250	6,371,295.0	1,836,930.1	948.00	13.98	0.00	0	0		
									point251	251	6,371,321.5	1,836,932.2	948.00	13.98	0.00	0	0		
									point252	252	6,371,321.0	1,836,940.9	948.00	13.98	0.00	0	0		
									point253	253	6,371,339.5	1,836,942.4	948.00	13.98	0.00	0	0		
									point254	254	6,371,340.5	1,836,933.6	948.00	13.98	0.00	0	0		
									point255	255	6,371,364.0	1,836,935.6	948.00	13.98	0.00	0	0		
									point256	256	6,371,364.0	1,836,939.8	948.00	13.98	0.00	0	0		
									point257	257	6,371,409.0	1,836,943.5	948.00	13.98	0.00	0	0		
									point258	258	6,371,409.5	1,836,939.0	948.00	13.98	0.00	0	0		
									point259	259	6,371,417.0	1,836,939.6	948.00	13.98					
Fire House Garage	W	13.98	13.98	0.00				0.00	point260	260	6,371,533.0	1,837,042.2	948.00	13.98	0.00	0	0		
									point261	261	6,371,542.0	1,837,034.0	948.00	13.98	0.00	0	0		
									point262	262	6,371,543.5	1,837,036.0	948.00	13.98	0.00	0	0		
									point263	263	6,371,565.5	1,837,016.0	948.00	13.98	0.00	0	0		
									point264	264	6,371,563.5	1,837,013.9	948.00	13.98	0.00	0	0		
									point265	265	6,371,570.0	1,837,007.5	948.00	13.98	0.00	0	0		
									point266	266	6,371,554.5	1,836,990.6	948.00	13.98	0.00	0	0		
									point267	267	6,371,547.5	1,836,997.1	948.00	13.98	0.00	0	0		
									point268	268	6,371,539.0	1,836,988.2	948.00	13.98	0.00	0	0		
									point269	269	6,371,546.5	1,836,981.4	948.00	13.98	0.00	0	0		
									point270	270	6,371,536.5	1,836,970.6	948.00	13.98	0.00	0	0		
									point271	271	6,371,541.5	1,836,966.2	948.00	13.98	0.00	0	0		
									point272	272	6,371,490.5	1,836,911.0	948.00	13.98	0.00	0	0		
									point273	273	6,371,488.5	1,836,913.0	948.00	13.98	0.00	0	0		
									point274	274	6,371,478.5	1,836,902.5	948.00	13.98	0.00	0	0		
									point275	275	6,371,435.0	1,836,944.8	948.00	13.98	0.00	0	0		
									point276	276	6,371,444.5	1,836,954.9	948.00	13.98	0.00	0	0		
									point277	277	6,371,442.0	1,836,956.8	948.00	13.98	0.00	0	0		
									point278	278	6,371,477.0	1,836,994.2	948.00	13.98	0.00	0	0		
									point279	279	6,371,475.5	1,836,995.8	948.00	13.98	0.00	0	0		
									point280	280	6,371,492.0	1,837,013.9	948.00	13.98	0.00	0	0		

									point281	281	6,371,500.0	1,837,006.2	948.00	13.98	0.00	0	0		
									point282	282	6,371,533.0	1,837,042.2	948.00	13.98					
Resservation Church	W	13.98	13.98	0.00				0.00	point283	283	6,370,693.5	1,836,303.6	901.00	13.98	0.00	0	0		
									point284	284	6,370,632.5	1,836,302.5	901.00	13.98	0.00	0	0		
									point285	285	6,370,633.5	1,836,251.4	901.00	13.98	0.00	0	0		
									point286	286	6,370,694.5	1,836,252.5	901.00	13.98	0.00	0	0		
									point287	287	6,370,693.5	1,836,303.6	901.00	13.98					

Ldn Consulting			8 August 2014	
Ldn Consulting			TNM 2.5	
INPUT: TERRAIN LINES				
PROJECT/CONTRACT:	SR 94 - Jamul Reservation Access			
RUN:	Alternative 3 - 2035			
Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
Terrain Line1	1	6,371,795.5	1,836,325.4	908.00
	2	6,371,641.0	1,836,492.1	931.00
	3	6,371,621.5	1,836,515.8	931.00
	4	6,371,579.5	1,836,535.1	931.00
	5	6,371,520.0	1,836,597.4	932.00
	6	6,371,562.5	1,836,648.1	941.00
	7	6,371,647.0	1,836,692.1	959.00
	8	6,371,657.5	1,836,696.2	959.00
	9	6,371,747.0	1,836,717.0	980.00
	10	6,371,762.5	1,836,722.8	981.70
	11	6,371,774.0	1,836,734.4	980.00
	12	6,371,859.0	1,836,780.8	962.00
	13	6,371,868.0	1,836,785.4	962.00
	14	6,372,024.5	1,836,841.1	927.00
	15	6,372,196.0	1,836,861.1	911.00
	16	6,372,296.0	1,836,896.1	913.40
	17	6,372,359.5	1,836,880.6	912.50
	18	6,372,407.0	1,836,864.6	910.00
	19	6,372,502.5	1,836,758.0	900.50
	20	6,372,477.5	1,836,642.5	895.00
	21	6,372,501.5	1,836,393.6	885.00
	22	6,372,634.0	1,836,137.1	875.00
	23	6,372,767.0	1,835,883.8	865.00
	24	6,372,997.5	1,835,602.8	855.00

	25	6,373,086.0	1,835,529.1	852.00
	26	6,373,096.5	1,835,383.6	852.00
	27	6,373,246.5	1,835,379.0	869.00
	28	6,373,254.5	1,835,378.1	870.00
	29	6,373,389.5	1,835,292.5	907.40
	30	6,373,394.5	1,835,259.8	905.00
	31	6,373,392.0	1,835,231.8	900.00
	32	6,373,381.0	1,835,201.4	890.00
	33	6,373,382.0	1,835,166.6	884.00
	34	6,373,387.5	1,835,123.0	880.00
	35	6,373,398.0	1,835,039.5	867.00
	36	6,373,402.0	1,834,951.6	837.00
	37	6,373,439.5	1,834,878.1	825.00
	38	6,373,445.5	1,834,858.9	823.00
	39	6,373,535.5	1,834,625.2	818.00
	40	6,373,541.5	1,834,358.9	815.00
Terrain Line2	41	6,371,670.0	1,836,253.6	915.00
	42	6,371,747.0	1,836,123.9	911.00
	43	6,371,833.0	1,835,951.0	911.00
	44	6,371,910.5	1,835,837.5	911.00
	45	6,371,911.5	1,835,815.8	912.00
	46	6,371,896.5	1,835,746.8	912.00
	47	6,371,837.0	1,835,596.6	910.00
	48	6,371,847.0	1,835,538.5	908.00
	49	6,371,914.0	1,835,444.0	905.00
	50	6,371,968.0	1,835,396.2	895.00
	51	6,372,061.5	1,835,333.5	888.00
	52	6,372,130.5	1,835,260.9	873.00
	53	6,372,223.0	1,835,144.1	865.00
	54	6,372,283.5	1,835,076.6	861.00
	55	6,372,401.0	1,834,966.2	859.00
	56	6,372,482.5	1,834,880.9	861.00
	57	6,372,511.5	1,834,844.8	864.00
	58	6,372,527.0	1,834,817.2	865.00
	59	6,372,540.0	1,834,787.9	864.00
	60	6,372,550.5	1,834,752.6	864.00

	61	6,372,559.0	1,834,721.5	864.00
	62	6,372,564.5	1,834,685.0	864.00
	63	6,372,559.0	1,834,637.8	864.00
	64	6,372,533.0	1,834,563.8	864.00
Terrain Line3	65	6,370,927.5	1,837,233.0	945.00
	66	6,371,007.5	1,837,209.4	945.00
	67	6,371,155.5	1,837,211.5	970.00
	68	6,371,285.0	1,837,190.5	983.00
	69	6,371,301.0	1,837,187.9	983.20
	70	6,371,330.0	1,837,162.5	983.00
	71	6,371,360.5	1,837,119.5	980.00
	72	6,371,389.0	1,837,040.9	968.00
	73	6,371,405.0	1,837,004.5	951.00
Terrain Line4	75	6,371,126.0	1,836,957.5	941.00
	76	6,371,131.0	1,836,964.9	945.00
	77	6,371,165.0	1,836,985.5	948.00
	78	6,371,233.5	1,837,005.4	950.00
	79	6,371,284.0	1,836,995.6	950.00
	80	6,371,393.5	1,836,995.9	950.00
	81	6,371,419.0	1,837,011.2	950.00
	82	6,371,440.5	1,837,072.0	950.00
	83	6,371,469.0	1,837,170.9	953.00
	84	6,371,512.5	1,837,208.6	954.00
Terrain Line5	85	6,371,541.0	1,837,185.2	951.00
	86	6,371,534.5	1,837,157.4	941.00
	87	6,371,542.0	1,837,136.4	940.00
	88	6,371,566.5	1,837,082.5	940.00
	89	6,371,573.5	1,837,061.8	949.00
	90	6,371,583.5	1,837,026.6	949.00
	91	6,371,569.0	1,836,983.5	949.00
	92	6,371,473.0	1,836,886.9	949.00
	93	6,371,303.5	1,836,869.0	949.00
	94	6,371,246.0	1,836,857.9	949.00
	95	6,371,206.0	1,836,892.2	949.00
	96	6,371,146.0	1,836,961.8	949.00
Terrain Line6	97	6,372,011.5	1,838,160.2	1,001.00

	98	6,371,873.0	1,838,054.9	1,022.00
	99	6,371,810.0	1,837,997.6	1,022.00
	100	6,371,760.0	1,837,983.6	1,022.00
	101	6,371,717.5	1,837,977.1	1,030.00
	102	6,371,679.0	1,837,985.9	1,030.50
	103	6,371,621.0	1,837,990.9	1,026.40
	104	6,371,597.5	1,838,029.9	1,028.00
	105	6,371,551.0	1,838,081.2	1,037.00
	106	6,371,537.5	1,838,103.8	1,041.00
	107	6,371,519.5	1,838,121.5	1,041.00
	108	6,371,473.5	1,838,139.9	1,042.00
	109	6,371,390.0	1,838,133.0	1,045.00
	110	6,371,343.5	1,838,103.9	1,045.00
	111	6,371,314.0	1,838,099.2	1,045.00
	112	6,371,234.5	1,838,041.2	1,040.00
	113	6,371,163.5	1,837,981.6	1,025.00
	114	6,371,079.5	1,837,895.9	1,005.00
	115	6,370,988.5	1,837,843.5	990.00
	116	6,370,742.0	1,837,675.2	960.00
Terrain Line7	117	6,371,013.0	1,836,953.9	936.40
	118	6,370,977.5	1,836,855.1	950.00
	119	6,370,946.0	1,836,781.5	952.40
	120	6,370,919.0	1,836,730.4	950.00
	121	6,370,760.0	1,836,622.0	893.00
	122	6,370,694.5	1,836,656.1	983.00
	123	6,370,648.5	1,836,722.1	896.00
	124	6,370,595.0	1,836,803.6	899.00
	125	6,370,547.0	1,836,906.8	903.00
	126	6,370,548.5	1,836,918.2	910.00
	127	6,370,553.0	1,836,963.4	911.00
	128	6,370,547.5	1,837,009.9	914.00
	129	6,370,530.0	1,837,055.5	918.00
	130	6,370,505.5	1,837,090.1	919.00
	131	6,370,389.0	1,837,187.1	920.00
	132	6,370,318.0	1,837,229.5	930.00
	133	6,370,251.5	1,837,267.1	954.00

	134	6,370,180.5	1,837,293.1	956.00
	135	6,370,152.0	1,837,310.8	959.00
	136	6,370,085.5	1,837,328.5	961.00
Terrain Line8	165	6,370,564.5	1,835,881.5	903.00
	166	6,370,563.5	1,835,904.4	903.00
	167	6,370,555.0	1,835,917.1	903.00
	168	6,370,543.5	1,835,929.0	903.00
	169	6,370,529.5	1,835,955.4	903.00
	170	6,370,518.0	1,835,970.1	903.00
	171	6,370,534.5	1,835,970.0	903.00
	172	6,370,548.5	1,835,979.9	903.00
	173	6,370,580.0	1,836,016.0	903.00
	174	6,370,611.5	1,836,083.9	903.00
	175	6,370,638.5	1,836,159.8	903.00
	176	6,370,645.5	1,836,229.9	903.00
	177	6,370,623.0	1,836,258.2	903.00
	178	6,370,612.5	1,836,305.4	903.00
	179	6,370,622.5	1,836,311.1	903.00
	180	6,370,709.5	1,836,320.6	903.00
	181	6,370,790.5	1,836,314.9	895.00
	182	6,370,917.0	1,836,302.5	888.00
	183	6,371,051.5	1,836,315.0	901.00
	184	6,371,120.5	1,836,320.1	908.00
	185	6,371,484.0	1,836,299.9	940.00
	186	6,371,720.0	1,836,293.0	905.00
Terrain Line9	187	6,370,148.5	1,837,691.9	1,000.00
	188	6,370,183.5	1,837,668.1	1,000.00
	189	6,370,190.5	1,837,629.2	1,000.00
	190	6,370,186.0	1,837,602.5	1,000.00
	191	6,370,134.5	1,837,598.2	1,000.00
	192	6,370,083.5	1,837,595.9	1,000.00
	193	6,370,071.5	1,837,614.2	1,000.00
	194	6,370,034.0	1,837,630.1	1,000.00
	195	6,370,002.5	1,837,637.0	1,000.00
	196	6,369,955.5	1,837,628.0	1,000.00
	197	6,369,930.5	1,837,642.2	1,000.00

	198	6,369,901.0	1,837,655.9	1,000.00
	199	6,369,890.0	1,837,686.4	1,000.00
	200	6,369,869.5	1,837,668.4	1,000.00
	201	6,369,880.0	1,837,603.5	1,000.00
	202	6,369,814.5	1,837,607.0	1,000.00
	203	6,369,794.5	1,837,615.8	1,000.00
	204	6,369,778.5	1,837,606.4	1,000.00
	205	6,369,730.5	1,837,600.9	1,000.00
	206	6,369,681.0	1,837,593.2	1,000.00
	207	6,369,671.0	1,837,599.8	1,000.00
	208	6,369,656.5	1,837,628.0	1,000.00
	209	6,369,642.0	1,837,643.1	1,000.00
Terrain Line10	210	6,369,889.0	1,837,757.5	1,004.00
	211	6,369,802.0	1,837,746.0	1,013.00
	212	6,369,656.5	1,837,739.0	1,014.00
	213	6,369,637.5	1,837,834.2	1,017.00
Terrain Line11	214	6,371,055.5	1,838,142.2	1,011.00
	215	6,370,876.0	1,838,136.5	995.00
	216	6,370,799.5	1,838,145.8	993.00
	217	6,370,771.0	1,838,144.9	992.00
	218	6,370,733.0	1,838,123.2	992.00
	219	6,370,721.5	1,838,126.6	992.00
	220	6,370,711.5	1,838,141.0	992.00
	221	6,370,712.0	1,838,199.2	992.00
	222	6,370,709.5	1,838,238.9	992.00
	223	6,370,712.0	1,838,280.1	992.00
	224	6,370,725.5	1,838,288.9	992.00
	225	6,370,741.5	1,838,322.8	992.00
Terrain Line12	226	6,371,187.0	1,838,938.6	1,049.00
	227	6,370,868.5	1,838,921.2	1,011.00
	228	6,370,835.0	1,838,918.2	1,008.00
	229	6,370,792.5	1,838,910.6	1,003.00
	230	6,370,765.0	1,838,904.9	999.00
	231	6,370,739.5	1,838,892.2	995.00
	232	6,370,677.0	1,838,858.9	991.00
Terrain Line13	233	6,371,051.5	1,838,642.0	1,040.00

	234	6,370,945.5	1,838,634.6	1,028.00
	235	6,370,872.0	1,838,628.6	1,016.00
	236	6,370,827.5	1,838,628.9	1,010.00
	237	6,370,802.0	1,838,517.9	1,010.00
	238	6,370,802.5	1,838,406.0	1,010.00
	239	6,370,866.5	1,838,409.1	1,010.00
	240	6,370,867.0	1,838,388.8	1,010.00
	241	6,370,871.0	1,838,370.1	1,007.00
Terrain Line14	242	6,370,051.5	1,839,161.1	1,033.00
	243	6,370,422.0	1,839,178.9	1,009.00
	244	6,370,438.5	1,839,122.1	1,006.00
	245	6,370,439.5	1,839,107.1	1,006.00
	246	6,370,439.5	1,839,032.0	1,006.00
	247	6,370,491.5	1,839,003.8	1,002.00
	248	6,370,491.0	1,838,897.0	1,001.00
	249	6,370,472.0	1,838,826.5	999.00
	250	6,370,476.0	1,838,798.6	999.00
	251	6,370,468.5	1,838,704.6	999.00
	252	6,370,436.0	1,838,698.1	999.00
	253	6,370,419.0	1,838,687.6	999.00
	254	6,370,416.0	1,838,614.1	999.00
Terrain Line15	255	6,370,896.0	1,839,011.1	1,010.00
	256	6,370,911.0	1,839,030.9	1,010.00
	257	6,370,917.0	1,839,067.1	1,010.00
	258	6,370,925.5	1,839,082.6	1,010.00
	259	6,370,925.0	1,839,102.8	1,010.00
	260	6,370,925.0	1,839,163.9	1,010.00
	261	6,370,933.5	1,839,191.9	1,010.00
	262	6,370,936.0	1,839,216.8	1,010.00
	263	6,370,966.0	1,839,269.5	1,010.00
	264	6,370,968.0	1,839,303.5	1,010.00
	265	6,370,967.5	1,839,377.1	1,010.00
	266	6,370,939.5	1,839,386.2	1,010.00
	267	6,370,919.5	1,839,375.0	1,010.00
	268	6,370,868.0	1,839,359.9	1,010.00
	269	6,370,845.0	1,839,343.0	1,010.00

	270	6,370,834.5	1,839,318.9	1,010.00
	271	6,370,811.0	1,839,306.0	1,010.00
	272	6,370,764.5	1,839,276.6	1,010.00
	273	6,370,743.5	1,839,270.4	1,010.00
	274	6,370,686.5	1,839,294.0	1,010.00
Terrain Line16	275	6,370,116.0	1,839,507.4	1,080.00
	276	6,370,229.0	1,839,185.2	1,023.00
Terrain Line7-2	137	6,370,032.5	1,837,372.6	962.00
	138	6,370,008.0	1,837,385.5	964.00
	139	6,369,984.0	1,837,393.8	965.00
	140	6,369,957.5	1,837,390.9	966.00
	141	6,369,935.5	1,837,392.1	967.00
	142	6,369,919.5	1,837,392.1	968.00
	143	6,369,908.0	1,837,398.0	970.00
	144	6,369,883.5	1,837,407.6	971.00
	145	6,369,847.5	1,837,433.1	972.00
	146	6,369,828.5	1,837,447.2	973.00
	147	6,369,777.5	1,837,483.2	974.00
	148	6,369,764.0	1,837,486.8	975.00
	149	6,369,718.0	1,837,491.1	976.00
	150	6,369,692.5	1,837,500.5	988.00
	151	6,369,669.5	1,837,512.9	991.00
	152	6,369,666.0	1,837,498.2	992.00
	153	6,369,644.0	1,837,489.8	991.00
	154	6,369,620.0	1,837,450.2	995.00
	155	6,369,605.0	1,837,366.6	1,000.00
	156	6,369,577.5	1,837,262.1	1,015.00
	157	6,369,506.5	1,836,995.0	1,080.00
	158	6,369,494.0	1,836,975.0	1,083.00
	159	6,369,471.5	1,836,955.5	1,084.90
	160	6,369,469.0	1,836,948.4	1,084.00
	161	6,369,467.0	1,836,885.1	1,075.00
	162	6,369,476.0	1,836,835.6	1,071.70
	163	6,369,467.0	1,836,821.5	1,072.00
	164	6,369,439.5	1,836,719.4	1,077.80

ATTACHMENT 5

Road Construction Emission Model Runs

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Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 09/17/2013
Case Description:

**** Receptor #1 ****

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Location 50 feet from roadway edge	Residential	50.0	40.0	40.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dozer	No	40	85.0		150.0	0.0
Grader	No	40	85.0		150.0	0.0
Backhoe	No	40	80.0		150.0	0.0

Results

	Calculated (dBA)				Noise Limits (dBA)			
	Day		Evening		Night		Day	
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Dozer	75.5	71.5	N/A	N/A	N/A	N/A	N/A	N/A
Grader	75.5	71.5	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	70.5	66.5	N/A	N/A	N/A	N/A	N/A	N/A
Total	75.5	75.1	N/A	N/A	N/A	N/A	N/A	N/A

	Noise Limit Exceedance (dBA)								
	Day			Evening			Night		
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Dozer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 09/17/2013
Case Description:

**** Receptor #1 ****

Description	Baselines (dBA) Land Use	Daytime	Evening	Night
Location 50 feet from roadway edge	Residential	50.0	40.0	40.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50	85.0		150.0	0.0
Slurry Trenching Machine	No	50	82.0		150.0	0.0
Roller	No	20	85.0		150.0	0.0

Results

	Calculated (dBA)				Noise Limits (dBA)				Noise Limit Exceedance (dBA)			
	Day		Evening		Night		Day		Evening		Night	
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver	75.5	72.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Slurry Trenching Machine	72.5	69.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	75.5	68.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	75.5	75.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A