ADDENDUM SHEET

Date: July 26, 2011

Project: Los Osos Valley Road/U.S. 101 Interchange Improvements Project
EA: 05-0H7300
Location: 05-SLO-101 (PM 25.5/26.3)

Los Osos Valley Road/U.S. 101 Interchange Improvements Project
05-SLO-101 (PM 25.5/26.3)

The following corrections are made to the *Noise Impact Analysis, Los Osos Valley Road/US 101 Interchange, City of San Luis Obispo, California* (June 2008).

Section/Page	Change From	Change To
Project Description; Page: 5	Project description is brief and does not include discussion of the 7' Prefumo Creek culvert under US 101	Complete project description has been included for clarity of all project components.

No changes result from the changes in the project, therefore, the analysis in the *Noise Impact Analysis, Los Osos Valley Road/US 101 Interchange, City of San Luis Obispo, California* (June 2008) remains valid.

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PROJECT DESCRIPTION

Build Alternatives

Two build alternatives (Alternative 3 and Alternative 6) have been identified to satisfy the purpose and need for the project. Alternative 3 has been identified by the City of San Luis Obispo as the locally preferred alternative. Alternative 3 and Alternative 6 are described below.

Common Design Features of the Build Alternatives

This project is intended to accommodate current and future travel demands. Calle Joaquin Road south of LOVR has been realigned so that the existing "T" intersection of LOVR and Calle Joaquin Road north of LOVR has been converted to a four-way intersection. The Calle Joaquin Road realignment was developed and completed by the Costco Wholesale Corporation as a condition of approval and mitigation measure for traffic impacts.

The project limits extend along LOVR between Auto Park Way to the west and South Higuera Street to the east covering a distance of 0.52 mile and along US 101 for about 2,500 feet south and 4,300 feet north of the LOVR overcrossing.

Under both build alternatives, the San Luis Obispo Creek arch culvert would be changed. Built in 1986, the existing three-barrel structural steel-plate arch culvert is a large structure, carrying LOVR over San Luis Obispo Creek. This project would widen and raise the roadway. These roadway changes require lengthening the culvert with a new structural steel arch (matching what exists) and increasing the loading on the existing culvert that would remain. To determine the feasibility of this increased loading, a structural analysis was conducted. The analysis showed that the existing culvert can easily carry the additional loading, making this a viable option.

Included in the project, along both sides of all project-related local streets, are sidewalks with grades and curb ramps at intersections, in compliance with Americans with Disabilities Act requirements. To help non-motorized transportation (such as pedestrians and bicyclists) cross the intersections, the project would limit use of free-slip ramps, include single-lane ramps, and review the southwest corner of the US 101 northbound off-ramp/LOVR to determine if a widened area is needed to create a bigger "landing" area.

A portion of the proposed Bob Jones City-to-Sea Bike Trail passes through the project. This project would provide bikeway access to connect to LOVR at the northbound on- and off-ramp intersection. Project design would not preclude connection of the Prefumo Creek trail extension to the future Bob Jones City-to-Sea Bike Trail (including possible extension of the trail under or over LOVR). Each build alternative would provide 6.5-foot Class II bike lanes throughout the project on both sides of LOVR. These lanes would connect to the existing 6-foot sidewalks in front of the Los Verdes Parks I and II developments. Sidewalks on both sides of the San Luis Obispo Creek bridge would be widened to accommodate Class I trails. Safety device placement, striping, and signage of the Class I trail would be completed once the location and alignment of the Bob Jones City-to-Sea Bike Trail is determined south of the interchange. Any at-grade crossings of the LOVR by the Bob Jones City-to-Sea Bike Trail would use appropriate and safe design guidelines for visibility and signal operations. Bicycle detector loops would be placed at all intersections that have traffic signals. Project design would remain consistent with the Bob Jones City-to-Sea Bike Trail Project Master Plan and the City of San Luis Obispo Bicycle Transportation Plan.

Both alternatives would:

1. Widen LOVR to four lanes from South Higuera Street to 600 feet west of Calle Joaquin to meet the existing four-lane section west of Calle Joaquin.
2. Extend the existing San Luis Obispo Creek culvert crossing to accommodate widened LOVR
3. Construct retaining walls to avoid Prefumo Creek and business impacts at LOVR and the US 101 southbound ramps.
4. Construct sidewalks and Class II bike lanes along both sides of LOVR.
5. Change the existing signals at the LOVR and US 101 ramp intersections.
6. Widen and rebuild the US 101 northbound off-ramp and build a retaining wall to avoid creek impacts.
7. Change the landscaping and sidewalks along LOVR at Los Verdes.
8. Change the striping, medians, and lane widths along LOVR at Los Verdes.
9. Restripe South Higuera Street to optimize the capacity of the South Higuera Street/LOVR intersection, given the widening of LOVR.
10. Include pedestrian crossing controls at all intersections that have traffic signals unless determined unsafe or detrimental to traffic conditions.
11. Further widen San Luis Obispo Creek bridge to accommodate a future Class I trail on either shoulder of the structure.
12. Use concrete paving at off-ramp ends.
13. Use street print (stamped/imprinted asphalt or concrete) through crosswalks for increased visibility.
14. Use rubberized asphalt concrete, as a project feature, on LOVR in front of the Los Verdes Parks I and II.
15. Restripe LOVR from two to four lanes in front of the Los Verdes Parks I and II driveways to assist with access.
16. Plant native landscaping within the intersections and ramps where appropriate.

Unique Features of Build Alternatives

Alternative 3—Minimum Build

Alternative 3 is the minimum build alternative for this project and is the locally preferred alternative. This alternative would widen LOVR between the recently constructed Calle Joaquin intersection with LOVR west of US-101 and the Los Verdes Park community east of US-101 to 4 lanes, construct a new two lane structure adjacent the existing LOVR Overcrossing, and widening San Luis Obispo Creek culvert crossing.

The actual work to be performed under the project includes:

1. Widen LOVR to four lanes from South Higuera Street to the existing four-lane section west of Calle Joaquin.

2. Extend the existing San Luis Obispo Creek culvert crossing to accommodate widened LOVR.

3. Construct retaining walls to avoid Prefumo Creek and business impacts at LOVR and the US 101 southbound ramps.

4. Construct sidewalks and Class II bike lanes along both sides of LOVR.

5. Change the existing signals at the LOVR and US 101 ramp intersections.

6. Widen and rebuild the US 101 northbound off-ramp and build a retaining wall to avoid creek impacts.

7. Change the landscaping and sidewalks along LOVR at Los Verdes.

8. Change the striping, medians, and lane widths along LOVR at Los Verdes.

9. Restripe South Higuera Street to optimize the capacity of the South Higuera Street/LOVR intersection, given the widening of LOVR.

10. Pavement section for ramps and LOVR will be 0.2' rubberized asphalt concrete over 0.3' hot mix asphalt over 1.67' aggregate based on the Life Cycle Pavement Cost Analysis findings. Concrete paving will be used at both off-ramp ends.

11. Use street print through crosswalks for increased visibility.

12. Use open-grade or rubberized asphalt on LOVR in front of the Los Verdes Parks I and II.

13. Plant native landscaping within the intersections and ramps where appropriate.

14. Construct retaining walls to avoid San Luis Obispo Creek impacts.

15. Construct a separate US 101 overcrossing to carry the two eastbound lanes with a split profile.

16. Raise the intersection of LOVR at the US 101 southbound ramps.

17. Construct new street lighting along LOVR.

18. Raise headwalls on Prefumo Creek box culvert under the southbound off-ramp to accommodate ramp raising and widening.

19. Widen the US 101 southbound off-ramp and construct retaining walls.

20. Change the storm drain system along LOVR to accommodate widening and profile changes.

21. Construct a standard acceleration lane from the southbound on-ramp.

Changes to Work to be Performed Resulting from Value Analysis and Public Comment

22. Include pedestrian crossing controls at all signalized intersections unless specific movements are determined unsafe or detrimental to traffic conditions.

23. Further widen San Luis Obispo Creek Bridge to accommodate a future Class I trail on either shoulder of the structure.

24. Restripe LOVR from two to four lanes in front of the Los Verdes Parks I and II driveways to assist with access.

25. Construct a right-turn lane from eastbound LOVR to northbound US-101 on-ramp.

26. Use concrete paving at off ramp termini.

27. Use imprinted AC for crosswalks for increased visibility, outside limits of state right-of-way.

28. Place bicycle detector loops at signalized intersections.

Alternative 6—Moderate Build, Near Full Standard

This alternative proposes to widen Los Osos Valley Road between Calle Joaquin west and the Los Verdes communities east of US 101 (see Figures 1.3-3 and 1.3-4). The existing LOVR overcrossing would be replaced to improve the profile, vertical clearance, and space required for the southbound hook off-ramp.

In addition, the existing northbound loop on-ramp to US 101 would be reconstructed, and the northbound off-ramp would be widened. A new northbound diagonal on-ramp to US 101 may be added in the northeast quadrant of the interchange as a phased improvement. An auxiliary lane would be added to northbound US 101 from the end of the northbound loop on-ramp to 1,000 feet beyond the end of the northbound diagonal on-ramp. The northbound diagonal on-ramp would be supported by retaining walls and an additional bridge over Prefumo Creek. The existing southbound on- and off-ramps from US 101 would be removed. South of LOVR, new/relocated southbound on- and off-ramps from US 101 would be constructed in a hook ramp configuration. Calle Joaquin south of LOVR is being realigned to accommodate the realigned southbound US 101 ramps and to create a four-way intersection with Calle Joaquin north LOVR.

The actual work to be performed under the project includes:

1. Widen LOVR to 4 lanes from South Higuera St. to 600 feet north of Calle Joaquin

2. Extend or reconstruct existing San Luis Obispo Creek Culvert Crossing to accommodate widened LOVR

3. Replace the LOVR US-101 Overcrossing

4. Relocate and reconstruct the southbound US-101 ramps

5. Reconstruct northbound US-101 loop on-ramp

6. Construct northbound US-101 slip on-ramp and merge lane to US-101

7. Construct northbound US-101 on-ramp bridge & retaining walls at Prefumo Creek

8. Construct signalized intersection of US-101 southbound ramps and Calle Joaquin

9. Construct sidewalks and combined bike lane/shoulder along LOVR
10. Construct new street lighting along LOVR and Calle Joaquin
11. Modify existing signals at LOVR/US-101 northbound off-ramp intersection
12. Abolish existing southbound US-101 ramps and Perfumo Creek Box Culvert
13. Widen US-101 northbound off-ramp and construct retaining wall
14. Extend the Perfumo Creek box culvert under US-101 for new southbound off ramp
15. Construct storm drain systems for LOVR and reconstruct ramps
16. Modify landscaping and sidewalks along LOVR at Los Verdes
17. Restripe South Higuera Street

No-Build Alternative

Environmental review must consider the effects of not implementing the proposed project. The No-Build Alternative provides a baseline for comparing the impacts of all alternatives.

Effects of the No-Build Alternative include deteriorating level of service, impacts to air quality, and continuing safety conditions. Unless operational improvements are made, future planned development and general regional growth will increase traffic volumes to a degree that all intersections in the vicinity of the LOVR/US 101 interchange would operate with severe congestion during both the morning and afternoon peak hours. This would result in congestion on US 101 from backups at the off-ramp intersections. This congestion would affect both local traffic on LOVR and regional traffic on US 101. Decreasing operational efficiency may negatively affect air quality and would likely affect existing safety

NOISE IMPACT ANALYSIS

LOS OSOS VALLEY ROAD/US 101 INTERCHANGE

05-SLO-101-PM 25.5-26.3

EA # 05-OH7300

June 2008

NOISE IMPACT ANALYSIS

LOS OSOS VALLEY ROAD/US 101 INTERCHANGE
05-SLO-101-PM 25.5-26.3
EA # 05-OH7300

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LSA Project No. DEC0603

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I. EXECUTIVE SUMMARY

The City of San Luis Obispo (City) and the County of San Luis Obispo (County), in cooperation with the California Department of Transportation District 5 (the Department) and the Federal Highway Administration (FHWA), propose improvements to the Los Osos Valley Road/US 101 interchange between Auto Park Way to the west and South Higuera Street to the east and along US 101 for approximately 762 meters (m) (2,500 feet [ft]) south and 1,500 m (4,300 ft) north of the Los Osos Valley Road overcrossing.

The proposed project is considered a Type 1 project because the project would change the vertical and horizontal alignments of the Los Osos Valley Road/US 101 interchange. A noise analysis is required for all Type 1 projects. A Type 1 project is defined by 23 CFR 772 as follows:

> Proposed federal or federal aid highway project for the construction of a highway on a new location or the physical alteration of an existing highway, which changes either the horizontal or vertical alignment or increases the number of through traffic lanes.

Short-term noise levels were measured at nine representative locations to document the existing noise environment. Thirty-eight representative existing sensitive receptors were evaluated for potential noise impacts resulting from the proposed project. The results of the existing noise levels are shown in Table ES-A. The results of the future No Build Alternative, Alternative 3, and Alternative 6 as worst-case traffic condition noise modeling are also shown in Tables ES-A.

When traffic noise impacts have been identified, noise abatement measures must be considered. Traffic noise impacts result from one or both of the following occurrences: (1) an increase of 12 dBA or more over existing noise levels and, (2) predicted noise levels approaching or exceeding Noise Abatement Criteria (NAC).

Implementation of the proposed project would result in potential short-term noise impacts during construction and long-term noise impacts from use of the completed project. No substantial noise level increase from the corresponding adjusted existing noise level would result from operation of the completed project. Of the 38 receptor locations that were modeled in the project area, 1 receptor would approach or exceed the federal highways NAC under worst-case traffic conditions for both Alternatives 3 and 6. Receptor R-17, which represents the Montessori Children's school, would be exposed to traffic noise levels approaching or exceeding NAC under activity category B (67). Receptor R-17 projects traffic noise levels on S. Higuera St., which is adjacent to the Los Verdes Park development. Because much of the noise affecting this receptor is from South Higuera Street, which is not part of this project, no noise abatement for this location will be recommended at this time.

Table ES-A: Projected Traffic Noise Level, dBA L_{eq}

Rec No.	Location	Type of Development	Noise Abatement Category	Adjusted Existing Noise Level	Future No Build	Alternative 3	Change from Existing Level	Alternative 6	Change from Existing Level
R-1[1]	Los Osos Valley Road	Commercial	C (72)	69	**72**[2]	**72**	3	**73**	4
R-2[1]	Los Osos Valley Road	Commercial	C (72)	69	**72**	**72**	3	**72**	3
R-3[1]	Los Osos Valley Road	Commercial	C (72)	71	**73**	**74**	3	**74**	3
R-4[1]	Los Osos Valley Road	Commercial	C (72)	65	68	68	3	69	4
R-5[1]	Los Osos Valley Road	Commercial	C (72)	64	67	67	3	67	3
R-6[1]	Los Osos Valley Road	Commercial	C (72)	65	68	68	3	68	3
R-7	Los Osos Valley Road	Residential	B (67)	62	65	64	2	62	0
R-8	Los Osos Valley Road	Residential	B (67)	62	64	64	2	62	0
R-9	Chuparrosa Drive	Residential	B (67)	60	63	63	3	61	1
R-10	Chuparrosa Drive	Residential	B (67)	61	64	64	3	62	1
R-11	Chuparrosa Drive	Residential	B (67)	61	63	63	2	61	0
R-12	Chuparrosa Drive	Residential	B (67)	60	63	63	3	61	1
R-13	Los Palos Drive	Residential	B (67)	51	54	55	4	54	3
R-14	Los Palos Drive	Residential	B (67)	48	53	53	5	52	4
R-15	Los Palos Drive	Residential	B (67)	57	59	59	2	58	1
R-16	Los Palos Drive	Residential	B (67)	61	64	64	3	64	3
R-17	South Higuera Street	School	B (67)/E(52)	58/34[3]	**66**/42	**66**/42	8	**66**/42	8
R-18	Encanto Lane	Residential	B (67)	47	50	51	4	49	2
R-19	Encanto Lane	Residential	B (67)	54	56	56	2	56	2
R-20	Encanto Lane	Residential	B (67)	60	63	63	3	63	3
R-21	Los Palos Drive	Residential	B (67)	51	56	56	5	56	5
R-22	Los Palos Drive	Residential	B (67)	53	59	59	6	59	6
R-23	Los Verdes Drive	Residential	B (67)	58	62	62	4	61	3
R-24	Los Verdes Drive	Residential	B (67)	49	53	53	4	52	3
R-25	Los Verdes Drive	Residential	B (67)	48	58	52	4	52	4
R-26	Los Verdes Drive	Residential	B (67)	51	55	55	4	54	3
R-27	Los Verdes Drive	Residential	B (67)	56	60	60	4	60	4

1 No outdoor active use areas are associated with the commercial land use.
2 Numbers underlined represent noise levels that approach or exceed the NAC under activity category B (67) or C (72).
3 Exterior/Interior noise level. A 24-dBA exterior-to-interior sound attenuation with windows and doors closed is assumed for the classrooms.

R-28	Los Verdes Drive	Residential	B (67)	53	59	59	6	59	6
R-29	Los Verdes Drive	Residential	B (67)	55	64	64	9	64	9
R-30	Los Verdes Drive	Residential	B (67)	54	58	58	4	57	3
R-31	Los Verdes Drive	Residential	B (67)	49	53	53	4	52	3
R-32	Los Verdes Drive	Residential	B (67)	55	59	59	4	59	4
R-33	Los Verdes Drive	Recreation	B (67)	51	57	57	6	56	5
R-34	Los Verdes Drive	Residential	B (67)	48	54	53	5	53	5
R-35	Los Verdes Drive	Residential	B (67)	48	55	55	7	54	6
R-36	Los Verdes Drive	Residential	B (67)	46	53	53	7	53	7
R-37	Los Verdes Drive	Residential	B (67)	55	64	64	9	64	9
R-38	Calle Joaquin	Recreation	B (67)	52	56	56	4	59	7

Source: LSA Associates, Inc., 2006.

Also, as shown in Table ES-A for the existing, future No Build Alternative, Alternative 3, and Alternative 6, the predicted interior noise level at the Montessori Children's School (Receptor R-17) would not exceed the 52 dBA L_{eq} NAC under activity category E (52). Therefore, no sound barriers or building facade upgrades would be required to reduce interior noise levels.

City and County of San Luis Obispo Noise Standards

The City and County of San Luis Obispo's noise standards are expressed in terms of Community Noise Equivalent Level (CNEL); however, the FHWA traffic noise model (TNM) 2.5 model generates its results as L_{eq} for peak hours. Based on the 24-hour noise level measurement conducted, the CNEL level was calculated to be 1 dBA higher than the peak hour L_{eq} level. Using the modeled L_{eq} to obtain the CNEL, the 2035 with and without project conditions in the project area would approach or exceed the exterior residential noise standard of 60 dBA CNEL for Receptors R-7, 8, 9, 10, 11, 12, 16, 20, 22, 23, 27, 28, and 29. These noise residential receptors, however, have the same projected noise levels both with and without the proposed project, for Alternative 3. Noise levels under Alternative 6 are slightly less than No Build levels, but all still exceed the City threshold. The proposed project would have a less than significant impact on noise-sensitive land uses; however, the project would use open-grade or rubberized asphalt on Los Osos Valley Road in front of the Los Verdes Parks I and II to attenuate noise.

Construction of the proposed project would result in short-term intermittent noise reaching 95 dBA L_{max} at existing residences immediately adjacent to the proposed project. To reduce potential impacts, construction activities shall conform to Section 5-1, "Sound Control Requirements," in the Standard Special Provisions.

II. NOISE IMPACT TECHNICAL REPORT

A. INTRODUCTION

The City and the County, in cooperation with the Department and the FHWA, propose improvements to the Los Osos Valley Road/US 101 interchange between Auto Park Way to the west and South Higuera Street to the east and along US 101 for approximately 762 m (2,500 feet) south and 1,500 m (4,300 feet) north of the Los Osos Valley Road overcrossing. The FHWA will be the federal Lead Agency for environmental approval under the National Environmental Policy Act (NEPA), with oversight by the Department.

The proposed project is considered a Type 1 project because it would change the vertical and horizontal alignments of the Los Osos Valley Road/US 101 interchange. The regional location and project vicinity of the proposed project are shown in Figure 1.

Purpose and Need

The need for the project is to address the congestion and related degradation of the Level of Service (LOS) that is projected for the 2035 scenario, at the Los Osos Valley Road/US 101 interchange and the adjacent intersections within the study area. Furthermore, the existing facilities are not considered adequate for bicyclists and pedestrians. The purpose of this project is to improve traffic operations and safety on Los Osos Valley Road and the Los Osos Valley Road/US 101 interchange. The acceptable LOS for the proposed project is level C/D. The project is to be designed such that it will not preclude the planned ultimate widening of US 101 or future interchange improvements.

B. PROJECT DESCRIPTION

No Project/No Build Alternative

The No Build Alternative undertakes no improvements on the Los Osos Valley Road/US 101 interchange but rather maintains the existing roadway geometry. The No Build Alternative would produce no immediate environmental impacts other than routine roadway maintenance within the project area; consequently, no mitigation would be required.

Alternative 3

Alternative 3 is the Minimum Build Alternative for this project. This alternative includes widening Los Osos Valley Road between Calle Joaquin west of US 101 and the housing development east of US 101, including the existing Los Osos Valley Road over-crossing structure, and to lengthen the San Luis Obispo Creek culvert crossing. The widening would be accomplished by constructing a separate structure to carry the two eastbound lanes over US 101. Los Osos Valley Road would split over US 101 to accommodate the westbound lanes on the existing overcrossing. The widening will

accommodate four 3.6-meter through lanes, bike lanes, curb, gutter, and sidewalks on both sides, and a 4.2-meter median, which will be used for

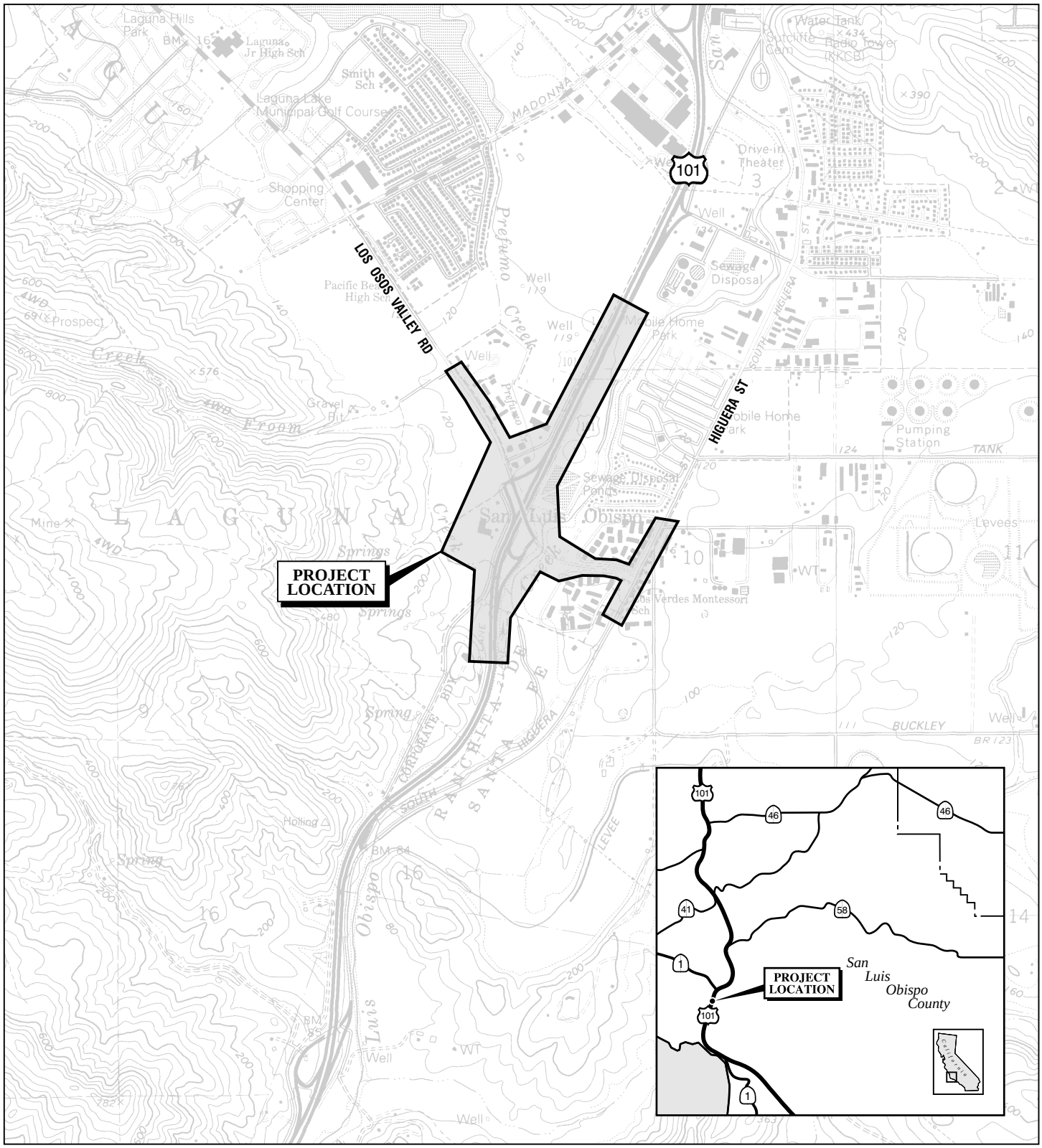

FIGURE 1

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SOURCE: USGS 7.5' Quads - Pismo Beach & San Luis Obispo, Ca.

Los Osos Valley Road/Route 101 Interchange

Project Location

left turn pockets where needed. Calle Joaquin south of Los Osos Valley Road will be realigned such that the existing "T" intersection of Los Osos Valley Road and Calle Joaquin north of Los Osos Valley Road will be converted to a "Four-Leg" intersection.

Alternative 6

This alternative proposes to widen Los Osos Valley Road between Calle Joaquin west of US 101 and the housing development east of US 101 and the San Luis Obispo Creek culvert crossing. The existing Los Osos Valley Road overcrossing structure will be replaced to improve the profile, vertical clearance, and spacing provided for the southbound off-ramp. The widening will accommodate four 3.6-meter through-lanes, bike lanes and curb, gutter and sidewalks on both sides, and a 4.2-meter median, which will be used for left-turn pockets where needed. The existing northbound loop on-ramp to US 101 will be replaced. A new northbound diagonal on-ramp to US 101 will be added in the northeast quadrant of the interchange. An auxiliary lane will be added to northbound US 101 beginning at the terminus of the northbound loop on-ramp and ending 300 meters beyond the terminus of the northbound diagonal on-ramp. The northbound diagonal on-ramp would be supported by retaining walls and an additional bridge over the wetland area. The existing southbound on- and off- ramps from US 101 will be deleted. South of Los Osos Valley Road, new southbound on- and off-ramps from US 101 would be constructed in a "Hook Ramp" configuration. Calle Joaquin south of Los Osos Valley Road will be realigned to accommodate the realigned southbound US 101 ramps and to create a "Four-Leg" intersection with Calle Joaquin north of Los Osos Valley Road.

C. FUNDAMENTALS OF TRAFFIC NOISE

The following is a brief discussion of fundamental traffic noise concepts. For a detailed discussion, refer to the Caltrans Technical Noise Supplement (Caltrans 2006), which is available on the Caltrans Web site at www.dot.ca.gov/hq/env/noise.

Sound, Noise, and Acoustics

Sound is a disturbance created by a moving or vibrating source in a gaseous or liquid medium or the elastic stage of a solid and is capable of being detected by the hearing organs. Sound may be thought of as the mechanical energy of a vibrating object transmitted by pressure waves through a medium to a hearing organ, such as a human ear. For traffic sound, the medium of concern is air. Noise is defined as sound that is loud, unpleasant, unexpected, or undesired.

Sound is actually a process that consists of three components: the sound source, the sound path, and the sound receiver. All three components must be present for sound to exist. Without a source to produce sound, there is no sound. Likewise, without a medium to transmit sound pressure waves, there is also no sound. Finally, sound must be received; a hearing organ, sensor, or object must be present to perceive, register, or be affected by sound or noise. In most situations, there are many different sound sources, paths, and receptors rather than just one of each. Acoustics is the field of science that deals with the production, propagation, reception, effects, and control of sound.

Frequency and Hertz

A continuous sound can be described by its frequency (pitch) and its amplitude (loudness). Frequency relates to the number of pressure oscillations per second. Low-frequency sounds are low in pitch, like the low notes on a piano, whereas high-frequency sounds are high in pitch, like the high notes on a piano. Frequency is expressed in terms of oscillations, or cycles, per second. Cycles per second are commonly referred to as Hertz (Hz). A frequency of 250 cycles per second is referred to as 250 Hz. High frequencies are sometimes more conveniently expressed in units of kilo-Hertz (kHz), or thousands of Hertz. The extreme range of frequencies that can be heard by the healthiest human ear spans from 16–20 Hz on the low end to about 20,000 Hz (or 20 kHz) on the high end.

Sound Pressure Levels and Decibels

The amplitude of a sound determines its loudness. Loudness of sound increases and decreases with increasing and decreasing amplitude. Sound pressure amplitude is measured in units of micro-Newton per square meter (N/m^2), also called micro-Pascal (µPa). One µPa is approximately one-hundred billionth (0.00000000001) of normal atmospheric pressure. The pressure of a very loud sound may be 200 million µPa, or 10 million times the pressure of the weakest audible sound (20 µPa). Because expressing sound levels in terms of µPa would be very cumbersome, sound pressure level (SPL) is used instead to describe in logarithmic units the ratio of actual sound pressures to a reference pressure squared. These units are called bels, named after Alexander Graham Bell. To provide a finer resolution, a bel is subdivided into 10 decibels, abbreviated dB.

Addition of Decibels

Because decibels are logarithmic units, sound pressure levels cannot be added or subtracted by ordinary arithmetic means. For example, if one automobile produces an SPL of 70 dBA as it passes an observer, two cars passing simultaneously would not produce 140 dBA; they would, in fact, combine to produce 73 dBA. When two sounds of equal SPL are combined, they will produce a combined SPL 3 dBA greater than the original individual SPL. In other words, sound energy must be doubled to produce a 3 dBA increase. If two sound levels differ by 10 dBA or more, the combined SPL is equal to the higher SPL; in other words, the lower sound level does not increase the higher sound level.

A-Weighted Decibels

Sound pressure level alone is not a reliable indicator of loudness. The frequency, or pitch, of a sound also has a substantial effect on how humans will respond. 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 not only in the range of audible frequencies but also in the way it perceives the SPL in that range. In general, the healthy human ear is most sensitive to sounds between 1,000 Hz and 5,000 Hz, and it perceives a sound within that range as being more intense than a sound of higher or lower frequency with the same magnitude. To approximate the frequency response of the human

ear, a series of SPL adjustments is usually applied to the sound measured by a sound level meter. The adjustments (referred to as a weighting network) are frequency dependent.

The A-scale 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-scale, C-scale, D-scale), but these scales are rarely, if ever, used in conjunction with highway traffic noise. Noise levels for traffic noise reports are typically reported in terms of A-weighted dBAs. In environmental noise studies, A-weighted SPLs are commonly referred to as noise levels. Table A shows typical A-weighted noise levels.

Table A: Typical Noise Levels

Common Outdoor Activities	Noise Level dBA	Common Indoor Activities
	—110—	Rock Band
Jet Flyover at 300 m (1,000 ft)		
	—100—	
Gas Lawn Mower at 1 m (3 ft)		
	—90—	
Diesel Truck at 15 m (50 ft),		Food Blender at 1 m (3 ft)
at 80 km/hr (50 mph)	—80—	Garbage Disposal at 1 m (3 ft)
Noisy Urban Area, Daytime		
Gas Lawn Mower, 30 m (100 ft)	—70—	Vacuum Cleaner at 3 m (10 ft)
		Normal Speech at 1 m (3 ft)
Heavy Traffic at 90 m (300 ft)	—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 Hall (Background)
	—20—	
		Broadcast/Recording Studio
	—10—	
Lowest Threshold of Human Hearing	—0—	Lowest Threshold of Human Hearing

Source: Caltrans, Technical Noise Supplement, October 2006.

Human Response to Changes in Noise Levels

Under controlled conditions in an acoustics laboratory, the trained, healthy human ear is able to discern changes in sound levels of 1 dBA when exposed to steady, single-frequency signals in the midfrequency range. Outside such controlled conditions, the trained ear can detect changes of 2 dBA in normal environmental noise. It is widely accepted that the average healthy ear, however, can barely perceive noise level changes of 3 dBA. A change of 5 dBA is readily perceptible, and a change of 10 dBA is perceived as being twice or half as loud. As discussed above, a doubling of sound energy results in a 3 dBA increase in sound, which means that a doubling of sound energy (e.g., doubling the volume of traffic on a highway) would result in a barely perceptible change in sound level.

Noise Descriptors

Noise in the daily environment fluctuates over time. Some of the fluctuations are minor; some are substantial. Some noise levels occur in regular patterns; others are random. Some noise levels fluctuate rapidly, others slowly. Some noise levels vary widely; others are relatively constant. Various noise descriptors have been developed to describe time-varying noise levels. The following is a list of 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. L_{eq} is, in effect, the steady-state sound level that, in a stated period, would contain the same acoustical energy as the time-varying sound that actually occurs during the same period. The one-hour A-weighted equivalent sound level, L_{eq}(h), is the energy average of the A-weighted sound levels occurring during a one-hour period and is the basis for the NAC used by the Department and the FHWA.
- Percentile-Exceeded Sound Level (L_x): L_x represents the sound level exceeded for a given percentage of a specified period. For example, 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.

Sound Propagation

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

Geometric Spreading. Sound from a small, localized source (i.e., a point source) radiates uniformly outward as it travels away from the source in a spherical pattern. The sound level attenuates (or drops off) at a rate of six dBA for each doubling of distance. Highway noise is not a single, stationary point source of sound. The movement of the vehicles on a highway makes the source of the sound appear to emanate from a line (i.e., a line source) rather than a point. This line source results in cylindrical spreading rather than the spherical spreading that results from a point source. The change in sound level from a line source is three dBA per doubling of distance.

Ground Absorption. Most often, the noise path between the highway and the observer is 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 done for simplification only; for distances of less than 60 m (200 ft), prediction results based on this scheme are sufficiently accurate. For acoustically hard sites (i.e., those sites with a reflective surface, such as a parking lot or a smooth body of water, between the source and the receiver), no excess ground attenuation is assumed. For acoustically absorptive or soft sites (i.e., those sites with an absorptive ground surface, such as soft dirt, grass, or scattered bushes and trees, between the source and the receiver), an excess ground attenuation value of 1.5 dBA per doubling of distance is normally assumed. When added to the geometric spreading, the excess ground attenuation results in an overall drop-off rate of 4.5 dBA per doubling of distance for a line source and 7.5 dBA per doubling of distance for a point source.

Atmospheric Effects. Research by Caltrans and others has shown that atmospheric conditions can have a significant effect on noise levels within 60 m (200 ft) of a highway. Wind has been shown to be the most important meteorological factor within approximately 150 m (500 ft) of the source, whereas vertical air temperature gradients are more important for greater distances. Other factors such as air temperature, humidity, and turbulence also have significant effects. Receptors located downwind from a source can be exposed to increased noise levels relative to calm conditions, whereas locations upwind can have lower noise levels. Increased sound levels can also occur as a result of temperature inversion conditions (i.e., increasing temperature with elevation).

Shielding by Natural and 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 this 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 dBA of noise reduction.

D. FEDERAL AND STATE REGULATIONS, STANDARDS, AND POLICIES

Federal and State regulations, standards, and policies relating to traffic noise are discussed in detail in the Caltrans Traffic Noise Analysis Protocol (Protocol) (Caltrans 2006). Transportation projects affected by the Protocol are referred to as Type 1 projects. A Type 1 project is defined in 23 CFR 772 as a proposed federal or federal-aid highway project for the construction of a highway on a new location or the physical alteration of an existing highway that significantly changes either the horizontal or vertical alignment or increases the number of through traffic lanes. The FHWA has clarified its interpretation of Type 1 projects by stating that a Type 1 project is any project that has the potential to increase noise levels at adjacent receptors. This includes projects to add interchange, ramp, auxiliary, or truck-climbing lanes to an existing highway. A project to widen an existing ramp by a full lane width is also considered to be a Type 1 project. The Department extends this definition to include State-funded highway projects. The proposed project build alternative evaluated in this

report is considered to be Type 1 because it involves federal funding and construction of a new highway interchange.

The following is a brief discussion of applicable federal and State regulations, standards, and policies.

National Environmental Policy Act

The NEPA is a federal law that establishes environmental policy for the nation, provides an interdisciplinary framework for federal agencies to prevent environmental damage, and contains action-forcing procedures to ensure that federal agency decision makers take environmental factors into account. Under the NEPA, impacts and measures to mitigate adverse impacts must be identified, including the identification of impacts for which no mitigation or only partial mitigation is available. The FHWA regulations discussed below constitute the federal noise standard. Projects complying with this standard are also in compliance with the requirements stemming from NEPA.

California Environmental Quality Act

The California Environmental Quality Act requires a strictly no-build versus build analysis to assess whether a proposed project will have a noise impact. If a proposed project is determined to have a significant noise impact under the California Environmental Quality Act, the act dictates that mitigation measures be incorporated into the project unless such measures are not feasible.

FHWA Regulations

Title 23, Part 772 of the Code of Federal Regulations (23 CFR 772) provides procedures for conducting highway project noise studies and implementing noise abatement measures to help protect the public health and welfare, supply NAC, and establish requirements for information to be given to local officials for use in planning and designing highways. Under this regulation, noise abatement must be considered for a Type I project if the project is predicted to result in a traffic noise impact. A traffic noise impact is considered to occur when the project results in a substantial noise increase or when the predicted noise levels approach or exceed the NAC specified in the regulation. Title 23, Part 772 of the Code of Federal Regulations does not specifically define what constitutes a substantial increase or the term approach; rather, it leaves interpretation of these terms to the states.

Before adoption of a final environmental document, the Department shall identify noise abatement measures that are feasible and reasonable as well as noise impacts for which no apparent solution is available. Noise abatement measures that are feasible and reasonable are then incorporated into the project’s plans and specifications to reduce or eliminate the noise impact on existing activities, developed lands, or undeveloped lands for which development is planned, designed, and programmed. Table B summarizes the FHWA NAC.

Caltrans Traffic Noise Analysis Protocol for New Highway Construction Projects

The Protocol specifies the policies, procedures, and practices to be used by agencies that sponsor new construction or reconstruction projects. NAC specified in the Protocol are the same as those criteria specified in 23 CFR 772. This report defines a noise increase as substantial when the predicted noise levels with project implementation exceed existing noise levels by 12 dBA L_{eq}(h). The Protocol also states that a noise impact occurs when design year traffic noise levels approach or exceed the NAC.

A sound level is considered to approach the NAC when it comes within 1-dBA of the NAC identified in 23 CFR 772. For example, a sound level of 66 dBA is considered to approach the NAC of 67 dBA, but 65 dBA is not.

Table B: Activity Categories and Noise Abatement Criteria (NAC)

Activity Category	Noise Abatement Criteria (NAC), Hourly A-Weighted Noise Level, dBA L_{eq} (h)	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	67 (exterior)	Picnic areas, recreation areas, playgrounds, active sports areas, parks, residences, motels, hotels, schools, churches, libraries, and hospitals.
C	72 (exterior)	Developed lands, properties, or activities not included in Categories A or B, above.
D	—	Undeveloped lands.
E	52 (interior)	Residences, motels, hotels, public meeting rooms, schools, churches, libraries, hospitals, and auditoriums.

Source: FHWA 23 CFR 772.

County of San Luis Obispo Noise Standards

The County has adopted a Noise Element (May 5, 1992) in its General Plan. The following are the goals of the San Luis Obispo County Noise Element:

- To protect the residences of San Luis Obispo County from the harmful and annoying effects of exposure to excessive noise.
- To protect the economic base of San Luis Obispo county by prevent incompatible land uses from encroaching upon existing or planned noise-producing uses.
- To preserve the tranquility of residential areas by preventing the encroachment of noise-producing uses.
- To educate the residents of San Luis Obispo County concerning the effects of exposure to excessive noise and the methods available for minimizing such exposure.
- To avoid or reduce noise impacts through site planning and project design, giving second preference to the use of noise barriers and/ or structural modifications to buildings containing noise-sensitive land uses.

The County's Noise Element of the General Plan established exterior and interior noise standards for the evaluation of compatibility between land uses in the County. The County specifies outdoor and indoor noise limits for residential uses, places of worship, educational facilities, recreational areas,

and other land uses. The noise standards for the County are provided in Table C. As shown in Table C, the County has an exterior noise standard of 60 dBA CNEL for residential land uses.

Table C: Maximum Allowable Noise Exposure - Transportation Noise Sources

Land Uses	L_{dn} or (CNEL), dBA	
	Indoor Spaces	Outdoor Activity Areas[1]
Residences (except for temporary dwellings and res accessory uses)	45	60[2]
Bed and Breakfast Facilities, Hotels and Motels	45	60
Hospitals, Nursing and Personal Care	45	60
Public Assembly and Entertainment (except Meeting Halls)	--	--
Offices	--	60
Churches, meeting halls	--	--
Schools-Preschool to Secondary, College and University, Specialized Education and Training Libraries and Museums	--	--
Outdoor Sports and Recreation	--	70

Source: County of San Luis Obispo, Noise Element General Plan, May 5, 1992.

County Code. Section 23.06.042 of the County Code limits the hours of construction to between the hours of 7:00 a.m. and 9:00 p.m., Monday through Friday or between the hours 8:00 a.m. and 5:00 p.m. on Sundays and Saturdays.

City of San Luis Obispo Noise Standards

The City's Noise Element of the General Plan established exterior and interior noise standards for the evaluation of compatibility between land uses in the City. The City specifies outdoor and indoor noise limits for residential uses, places of worship, educational facilities, recreational areas, and other land uses. The noise standards for the City are provided in Table D. As shown in Table D, the City has an exterior noise standard of 60 dBA CNEL for residential land uses.

[1] Where the location of outdoor activity areas is unknown, the exterior noise level standard shall be applied to the property line of the receiving land use.

[2] For other than residential uses, where an outdoor activity area is not proposed, the standard shall not apply. Where it is not possible to reduce noise in outdoor activity areas to 60 dBA L_{dn}/CNEL may be allowed provided that available exterior noise level reduction measures have been implemented and interior noise levels are in compliance with this table.

Table D: Maximum Noise Exposure for Noise-Sensitive Uses Due To Transportation Noise Sources

Land Uses	L_{dn} or (CNEL), dBA	
	Indoor Spaces	Outdoor Activity Areas[1]
Residences, hotels, motels, hospitals, nursing homes	45[2]	60
Theaters, auditoriums, music halls	--	--
Churches, meeting halls, office building, mortuaries	--	60
Schools, libraries, museums	--	--
Neighborhood parks	--	65
Playgrounds	--	70

Source: City of San Luis Obispo, Noise Element General Plan, May 1996.

Municipal Code. Section 9.12.050 of the City's Municipal Code limits the hours of construction to between the hours of 7:00 a.m. and 7:00 p.m., Monday through Saturday. No construction is permitted on Sundays or holidays.

E. STUDY METHODS AND PROCEDURES

Site Selection

Developed and undeveloped land uses in the project vicinity were identified through land use maps, aerial photography, and site inspection. Within each land use category, sensitive receptors were then identified. Land uses in the project vicinity include single-family residences, a school, recreational areas, agricultural, and commercial uses. The generalized land use data and location of particular sensitive receptors were the basis for the selection of the noise monitoring and analysis sites. A total of 38 receptor locations were modeled to represent residences, a school, recreational areas, and commercial land uses in the project vicinity. As there are no outdoor active use areas associated with the commercial uses within the project area, these land uses are not considered noise-sensitive. These modeled receptor locations are shown in Figure 2.

Noise Level Measurement Program

Existing noise levels in the project vicinity were sampled during off-peak traffic hours when traffic was flowing freely. All measurements were made using a Larson Davis Model 824 and 720 sound level meter.

The following measurement procedure was utilized:

- Calibrate sound level meter.
- Set up sound level meter at a height of 1.5 m (5 ft).
- Commence noise monitoring.

[1] If the location of outdoor activity areas is not shown, the outdoor noise standard shall apply at the property line of the receiving land use.

[2] Noise level requirement with open windows, if they are used to meet natural ventilation requirements.

LEGEND

- 24-Hour Monitor Locations
- Monitor Locations
- Receptor Locations
- Alternative 3
- Alternative 6

0 50 100 200 Feet

0 30.5 61 Meters

SOURCE: City of San Luis Obispo, 2006.

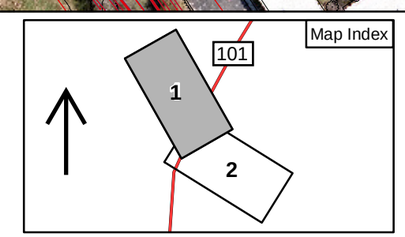

FIGURE 2

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Los Osos Valley Road / US101 Interchange

Noise Impact Analysis

Monitoring and Modeled Receptor Locations

05-SLO-101 K.P. 41.5 (P.M. 25.9)

EA# 0H7300

LEGEND

- 24-Hour Monitor Locations
- Monitor Locations
- Receptor Locations
- Alternative 3
- Alternative 6

0 50 100 200 Feet
0 30.5 61 Meters

SOURCE: City of San Luis Obispo, 2006.

FIGURE 2
Page 2 of 2

Los Osos Valley Road / US101 Interchange
Noise Impact Analysis
Monitoring and Modeled Receptor Locations

05-SLO-101 K.P. 41.5 (P.M. 25.9)
EA# 0H7300

- Collect site specific data such as date, time, direction of traffic, and distance from sound level meter to the right-of-way.
- Count passing vehicles for a period of 15 minutes. Vehicles were split into three categories: Heavy Trucks, Medium Trucks, and Automobiles.
- Stop measurement after 20 minutes.
- Calibrate sound level meter.
- Proceed to next monitoring site and repeat.

Noise Modeling

The traffic volumes counted and the noise levels measured during the ambient noise monitoring were used to calibrate the traffic noise model (TNM) 2.5 model for the existing conditions. The TNM 2.5 program is the traffic noise model used to evaluate traffic noise impacts against the NAC. The existing traffic noise levels were calculated using the traffic volumes counted during the short-term noise measurements. The future worst-case traffic noise levels at all 38 receptor locations were then modeled using the worst-case peak-hour traffic operations per lane per hour (prior to speed degradation). This traffic condition is assumed to be LOS D/E, which corresponds to 1,950 vehicles per lane per hour (vplph) on the main highway travel lane and 2035 traffic volumes on US 101 freeway ramps, Los Osos Valley Road, South Higuera Street, and Calle Joaquin (Fehr & Peers Transportation Consultants, 2006). The modeled future noise levels (Alternatives 3 and 6) were compared to the modeled existing noise (for substantial increases in noise levels) and to the NAC to determine the potential noise impacts. Feasible noise abatement measures were considered to reduce the projected noise impacts.

The TNM 2.5 model is sensitive to the volume of trucks on the roadway because trucks contribute disproportionally to the traffic noise. Traffic volumes, speeds, and truck percentages on the US 101 freeway and the US 101 ramps were obtained from traffic counts conducted during the 2006 ambient noise measurements. Truck percentages on Los Osos Valley Road and South Higuera Street were obtained from the traffic counts during ambient noise measurements. The vehicle distribution on these roadways is shown in Table E.

Table E: Vehicle Distribution

I-10 Freeway	Automobiles	Medium Trucks	Heavy Trucks
US 101 Freeway	95.0%	4.0%	3.0%
US 101 Freeway Ramps	95.0%	4.0%	3.0%
Los Osos Valley Road	95.0%	3.0%	2.0%
South Higuera Street	92.0%	5.0%	3.0%
Calle Joaquin	92.0%	5.0%	3.0%

Source: LSA Associates, Inc., 2006

F. EXISTING NOISE ENVIRONMENT

The primary source of noise in the project area is traffic on Los Osos Valley Road, South Higuera Street, and US 101. Ambient (20 minute) noise measurements were conducted to document the

existing noise levels at 9 representative sensitive receptor locations along the project alignment. The noise level measurements were performed using a Larson Davis Model 824 Type 1 sound level meter (serial number 824A1612). Monitoring locations selected were existing residential, commercial, and agricultural uses. Table F contains the results of these measurements. Table G describes the physical location of the noise monitoring. These noise measurements were used to calibrate the noise model and to predict the noise levels at all 38 modeled sensitive receptors in the project area.

Table F: Short-Term Ambient Noise Monitoring Results

Monitor #	Date	Start Time	Duration	dBA L_{eq}
M-1	3/15/2006	9:51 a.m.	20 minutes	72.5
M-2	3/15/2006	10:26 a.m.	20 minutes	64.0
M-3	3/15/2006	10:55 a.m.	20 minutes	64.9
M-4	3/15/2006	11:26 a.m.	20 minutes	66.0
M-5	3/15/2006	1:18 pm.	20 minutes	64.0
M-6	3/15/2006	1:49 pm.	20 minutes	64.2
M-7	3/15/2006	2:19 p.m.	20 minutes	64.9
M-8	3/15/2006	2:46 p.m.	20 minutes	65.6
M-9	3/15/2006	3:22 p.m.	20 minutes	61.1

Source: LSA Associates, Inc., 2006.

Table G: Physical Location of Noise Level Measurements

Monitor #	Location Description	Noise Sources	Traffic Count (15 minutes)
M-1	12250 Los Osos Valley Road; on the north side; at the Sunset Honda Dealership; between the car lot and the sidewalk; approximately 10 feet from the edge of road.	Traffic on Los Osos Valley Road and loud speaker.	**LOVR WB/EB** Auto = 217/170 Medium Trucks = 5/6 Heavy Trucks = 5/1 **US 101 NB/SB** Auto = 335/331 Medium Trucks = 11/13 Heavy Trucks = 15/20
M-2	12398 Los Osos Valley Road, on the north side; at the Toyota Dealership parking lot; approximately 50 feet from the edge of the road.	Traffic on Los Osos Valley Road and loud speaker from the dealership.	**LOVR WB/EB** Auto = 197/203 Medium Trucks = 2/13 Heavy Trucks = 1/2 **US 101 NB/SB** Auto = 321/337 Medium Trucks = 10/22 Heavy Trucks = 20/24
M-3	12500 Los Osos Valley Road; on the north side; at the strawberry stand; approximately 65 feet from the edge of the road.	Traffic on Los Osos Valley Road, some on-site traffic and parking activities, and some aircraft noise.	**LOVR WB/EB** Auto = 163/181 Medium Trucks = 2/9 Heavy Trucks = 1/1 **US 101 NB/SB** Auto = 333/361 Medium Trucks = 9/15 Heavy Trucks = 3/15

Monitor #	Location Description	Noise Sources	Traffic Count (15 minutes)
M-4	76 Los Palos Drive; on the south side of Los Osos Valley Road; in the middle of the driveway.	Traffic on Los Osos Valley Road, some traffic on Los Palos Drive, lawn mower noise, and some aircraft noise.	**LOVR WB/EB** Auto = 128/159 Medium Trucks = 2/5 Heavy Trucks = 1/0 **US 101 NB/SB** Auto = 306/431 Medium Trucks = 9/17 Heavy Trucks = 12/20
M-5	1 Los Palos Drive; on the south side of Los Osos Valley Road; side/front yard area.	Traffic on Los Osos Valley Road, some traffic on Los Palos Drive, and faint traffic noise on US 101.	**LOVR WB/EB** Auto = 130/213 Medium Trucks = 3/4 Heavy Trucks = 1/4 **US 101 NB/SB** Auto = 311/469 Medium Trucks = 15/15 Heavy Trucks = 11/16
M-6	90 Los Verdes Drive; on the north side of Los Osos Valley Road; in the middle of the driveway.	Traffic on Los Osos Valley Road and some traffic on Los Verdes Drive	**LOVR WB/EB** Auto = 177/185 Medium Trucks = 7/6 Heavy Trucks = 2/2 **US 101 NB/SB** Auto = 330/445 Medium Trucks = 17/13 Heavy Trucks = 16/16
M-7	3 Los Verdes Drive; on the north side of Los Osos Valley Road; in the middle of the driveway.	Traffic on Los Osos Valley Road, some traffic on Los Verdes Drive, and vehicle start-up noise.	**LOVR WB/EB** Auto = 159/189 Medium Trucks = 9/9 Heavy Trucks = 0/3 **US 101 NB/SB** Auto = 342/475 Medium Trucks = 13/18 Heavy Trucks = 15/16
M-8	7 Los Verdes Drive; on the north side of Los Osos Valley Road; in the middle of the driveway.	Traffic on Los Osos Valley Road, Higuera Street, and some traffic on Los Verdes Drive.	**LOVR WB/EB** Auto = 180/122 Medium Trucks = 5/6 Heavy Trucks = 21/4 **US 101 NB/SB** Auto = 375/501 Medium Trucks = 19/22 Heavy Trucks = 13/13
M-9	3 Chuparrosa; at the end of the cul-de-sac; in the backyard; approximately 750 feet from the edge of US 101.	Traffic on US 101, some aircraft noise, and noise from a rooster.	**LOVR WB/EB** Auto = 181/185 Medium Trucks = 9/7 Heavy Trucks = 1/9 **US 101 NB/SB** Auto = 419/582 Medium Trucks = 18/9 Heavy Trucks = 8/22

Source: LSA Associates, Inc., 2006.

LOVR=Los Osos Valley Road WB=Westbound NB=Northbound
EB=Eastbound SB=Southbound

The meteorological conditions at the project site during the short-term noise monitoring were as follows:

March 15, 2006

16–22EC (61–72EF)
Partly cloudy
Wind speed of 0.3 to 0.5 meters per second (m/s) (0.6 to 1.2 mph)

A total of 9 separate model runs were performed using the traffic numbers collected during the ambient noise monitoring. The results of these model runs were compared to the ambient noise levels to ensure the accuracy of TNM 2.5. Correction factors, known as K-factors, were applied to each of the modeled receptor locations so that the monitored and modeled noise levels were the same.

Table G shows the ambient noise level, the calibration run noise levels using the concurrent traffic counts during noise monitoring, and the K-factor at each of the 9 monitored locations. For monitoring location M-9 due to long distances from US 101 and Los Osos Valley Road, a K-factor higher than 3 was used to calibrate the noise model. As shown in Table H, at monitoring location M-9, a K-factor of +6.6 was used to calibrate the noise model.

Table H: Model Calibration

Monitor #	Monitored Noise Level (Leq(h))	Modeled Noise Level (Leq(h))	K-Factor (Leq(h))
M-1	72.5	69.7	2.8
M-2	64.0	65.8	-1.8
M-3	64.9	62.8	2.1
M-4	66.0	63.2	2.8
M-5	64.0	62.4	1.6
M-6	64.2	63.5	0.7
M-7	64.9	63.8	1.1
M-8	65.6	65.3	0.3
M-9	61.1	54.5	6.6[1]

Source: LSA Associates, Inc., 2006.

Long-term noise monitoring was conducted using a Larson Davis Model 720 Type 2 sound level meter (serial number 0117). The long-term noise measurements were performed along Los Palos Drive from 8:57 a.m. on Wednesday, March 15, 2006, to 8:56 a.m. on Thursday, March 16, 2006. Table I summarizes the results of the long-term monitoring on the south end of the project area. The location of the long-term noise monitoring is shown on Figure 2.

As shown in Table I, traffic noise peaks during the 8:57 a.m.–9:56 p.m. and 12:57 p.m.–6:56 p.m. hours. To determine existing peak noise levels in the project area, the difference between the hour in which the short-term ambient noise measurements were conducted and the peak-noise hour was

[1] Due to long distances from US-101 and Los Osos Valley Road, a K-factor higher than 3 was used.

added to the monitored noise levels. For example, monitoring at M-1 was conducted during the 9:57 a.m. hour. Table I shows that the noise level during this hour is generally 1 dB lower than the level during the peak-noise hour. Therefore, 1 dBA is added to the existing levels for receptors that represent M-1 to determine the existing peak-noise level. For receptor locations where ambient noise monitoring was not conducted, existing noise levels were calculated using TNM 2.5 and volumes counted during the noise monitoring. The existing noise levels at all 38 receptor locations are shown in Table J. Of the 38 modeled receptor locations, no receptors currently approach or exceed the NAC under activity category B(67) or C(72).

Table I: 24-Hour Ambient Noise Monitoring Results

Time	Date	Noise Level (dBA L_{eq})
8:57 a.m.	3/15/2006	**72**[1]
9:57 a.m.	3/15/2006	71
10:57 a.m.	3/15/2006	71
11:57 a.m.	3/15/2006	71
12:57 p.m.	3/15/2006	**72**
1:57 p.m.	3/15/2006	**72**
2:57 p.m.	3/15/2006	**72**
3:57 p.m.	3/15/2006	**72**
4:57 p.m.	3/15/2006	**72**
5:57 p.m.	3/15/2006	**72**
6:57 p.m.	3/15/2006	71
7:57 p.m.	3/15/2006	69
8:57 p.m.	3/15/2006	69
9:57 p.m.	3/15/2006	68
10:57 p.m.	3/15/2006	66
11:57 p.m.	3/15/2006	64
12:57 a.m.	3/15/2006	63
1:57 a.m.	3/16/2006	60
2:57 a.m.	3/16/2006	59
3:57 a.m.	3/16/2006	61
4:57 a.m.	3/16/2006	62
5:57 a.m.	3/16/2006	66
6:57 a.m.	3/16/2006	70
7:57 a.m.	3/16/2006	71

Source: LSA Associates, Inc., 2006.

An interior noise level was predicted for the Montessori Children's School (Receptor R-17) located at 4200 South Higuera Street. Based on the EPA's Protective Noise Levels (EPA 550/9-79-100, November 1978), with a combination of exterior walls, doors, and windows, standard construction for California buildings would provide more than 20 dBA in exterior-to-interior noise reduction with windows closed. As shown in Table J, under the existing traffic conditions, the predicted interior noise level at Receptor R-17 would not exceed the 52 dBA L_{eq} NAC under activity category E.

[1] Bold denotes peak traffic noise hour.

Table J: Existing Traffic Noise Level, dBA L_{eq}

Rec No.	Location	Type of Development	No. of Units Represented	Noise Abatement Category	Modeled Existing Noise Level	Adjusted Existing Noise Level
R-1	Los Osos Valley Road	Commercial	1	C (72)	68	69
R-2	Los Osos Valley Road	Commercial	1	C (72)	68	69
R-3	Los Osos Valley Road	Commercial	1	C (72)	70	71
R-4	Los Osos Valley Road	Commercial	1	C (72)	64	65
R-5	Los Osos Valley Road	Commercial	1	C (72)	63	64
R-6	Los Osos Valley Road	Commercial	1	C (72)	64	65
R-7	Los Osos Valley Road	Residential	1	B (67)	61	62
R-8	Los Osos Valley Road	Residential	1	B (67)	61	62
R-9	Chuparrosa Drive	Residential	1	B (67)	59	60
R-10	Chuparrosa Drive	Residential	3	B (67)	60	61
R-11	Chuparrosa Drive	Residential	1	B (67)	60	61
R-12	Chuparrosa Drive	Residential	2	B (67)	59	60
R-13	Los Palos Drive	Residential	1	B (67)	50	51
R-14	Los Palos Drive	Residential	1	B (67)	47	48
R-15	Los Palos Drive	Residential	1	B (67)	56	57
R-16	Los Palos Drive	Residential	1	B (67)	61	61
R-17	South Higuera Street	School	1	B (67)/E (52)	58/34[1]	58/34[1]
R-18	Encanto Lane	Residential	1	B (67)	46	47
R-19	Encanto Lane	Residential	1	B (67)	53	54
R-20	Encanto Lane	Residential	1	B (67)	59	60
R-21	Los Palos Drive	Residential	2	B (67)	50	51
R-22	Los Palos Drive	Residential	1	B (67)	53	53
R-23	Los Verdes Drive	Residential	1	B (67)	58	58
R-24	Los Verdes Drive	Residential	3	B (67)	49	49
R-25	Los Verdes Drive	Residential	2	B (67)	48	48
R-26	Los Verdes Drive	Residential	2	B (67)	51	51
R-27	Los Verdes Drive	Residential	1	B (67)	56	56
R-28	Los Verdes Drive	Residential	2	B (67)	53	53
R-29	Los Verdes Drive	Residential	2	B (67)	55	55
R-30	Los Verdes Drive	Residential	1	B (67)	54	54
R-31	Los Verdes Drive	Residential	1	B (67)	49	49
R-32	Los Verdes Drive	Residential	1	B (67)	55	55
R-33	Los Verdes Drive	Recreation	1	B (67)	51	51
R-34	Los Verdes Drive	Residential	1	B (67)	48	48
R-35	Los Verdes Drive	Residential	2	B (67)	48	48
R-36	Los Verdes Drive	Residential	2	B (67)	46	46
R-37	Los Verdes Drive	Residential	1	B (67)	55	55
R-38	Calle Joaquin	Recreation	1	B (67)	52	52

Source: LSA Associates, Inc., 2006.

[1] Exterior/Interior noise level. A 20 dBA exterior-to-interior sound attenuation with windows and doors closed is assumed for the classrooms.

G. FUTURE NOISE ENVIRONMENT, IMPACTS, AND CONSIDERED ABATEMENT/MITIGATION

Federal Highways Traffic Noise Impact Assessment

Potential noise impacts associated with project operations are solely from traffic noise created by vehicles that use the roadway system. Future traffic noise was evaluated for LOS D/E on US 101 and 2035 traffic volumes for all other roadways as a worst-case scenario. The proposed project was modeled using TNM 2.5. Each scenario was modeled using CAD maps provided by Dokken Engineering. A total of 38 receptor locations representing existing residences, a school, recreational areas, and commercial land uses were evaluated in the model using coordinates obtained from the CAD maps.

Traffic volumes counted during the ambient noise monitoring were used in TNM 2.5 for existing settings to calibrate the modeling result. The model input and output data for the calibration model runs are included in Appendix A. The existing condition was then modeled and adjusted for peak-hour noise levels to determine whether a substantial noise increase would occur under future worst-case conditions (Alternatives 3 and 6). The model input and output data for the existing conditions are included in Appendix B. The results of the existing traffic noise modeling are shown in Table H.

Future worst-case sound levels at the representative sensitive receptor locations in the project area were determined without sound walls using peak-hour traffic volumes as described in Section E. The model input and output data for the future No Build conditions are included in Appendix C. Also, the model input and output data for Alternatives 3 and 6 without noise abatement are included in Appendix D and E, respectively. The traffic noise levels for existing, future No Build, Alternative 3, and Alternative 6 conditions are shown in Table K. The modeled future traffic noise levels (Alternatives 3 and 6) were compared to the modeled adjusted existing noise levels (after calibration) to determine whether a substantial noise level increase would occur. The modeled future traffic noise levels (Alternative 3 and 6) were also compared to the NAC to determine whether a traffic noise impact would occur.

If the peak-hour traffic noise level at a sensitive receptor location is predicted to approach or exceed the NAC, or if the predicted traffic noise level is 12 dBA or more over its corresponding existing noise level at the sensitive receptor location analyzed, noise abatement measures must be considered. Of the 38 modeled receptors, 1 receptor would approach or exceed the NAC under activity category B (67) for both Alternatives 3 and 6 conditions. Of the 38 modeled receptors, no receptors would experience a substantial increase over their corresponding adjusted existing peak-hour noise levels.

Receptor R-17, which represents the existing Montessori Children's School would be exposed to traffic noise levels approaching or exceeding NAC under activity category B (67). Receptor R-17 projects traffic noise levels on S. Higuera St., which is adjacent to the Los Verdes Park development. Currently, no existing barriers protect the outdoor active use area associated with the school. Because much of the noise affecting this receptor is from South Higuera Street, which is not part of this project, no noise abatement for this location will be recommended at this time. Also, noise levels at Receptors R-1, R-2, and R-3 are predicted to approach or exceed the NAC for Category C (72 dBA L_{eq}). However, Caltrans does not generally provide noise abatement for commercial receptors; therefore, no noise abatement for these receptors is recommended.

Table K: Projected Traffic Noise Level, dBA L_{eq}

Rec No.	Location	Adjusted Existing Noise Level	Future No Build	Alternative 3	Change from Existing Level	Alternative 6	Change from Existing Level
R-1[1]	Los Osos Valley Road	69	**72**[2]	**72**	3	**73**	4
R-2[1]	Los Osos Valley Road	69	**72**	**72**	3	**72**	3
R-3[1]	Los Osos Valley Road	71	**73**	**74**	3	**74**	3
R-4[1]	Los Osos Valley Road	65	68	68	3	69	4
R-5[1]	Los Osos Valley Road	64	67	67	3	67	3
R-6[1]	Los Osos Valley Road	65	68	68	3	68	3
R-7	Los Osos Valley Road	62	65	64	2	62	0
R-8	Los Osos Valley Road	62	64	64	2	62	0
R-9	Chuparrosa Drive	60	63	63	3	61	1
R-10	Chuparrosa Drive	61	64	64	3	62	1
R-11	Chuparrosa Drive	61	63	63	2	61	0
R-12	Chuparrosa Drive	60	63	63	3	61	1
R-13	Los Palos Drive	51	54	55	4	54	3
R-14	Los Palos Drive	48	53	53	5	52	4
R-15	Los Palos Drive	57	59	59	2	58	1
R-16	Los Palos Drive	61	64	64	3	64	3
R-17	South Higuera Street	58/34[3]	**66**/42	**66**/42	8	**66**/42	8
R-18	Encanto Lane	47	50	51	4	49	2
R-19	Encanto Lane	54	56	56	2	56	2
R-20	Encanto Lane	60	63	63	3	63	3
R-21	Los Palos Drive	51	56	56	5	56	5
R-22	Los Palos Drive	53	59	59	6	59	6
R-23	Los Verdes Drive	58	62	62	4	61	3
R-24	Los Verdes Drive	49	53	53	4	52	3
R-25	Los Verdes Drive	48	58	52	4	52	4
R-26	Los Verdes Drive	51	55	55	4	54	3
R-27	Los Verdes Drive	56	60	60	4	60	4
R-28	Los Verdes Drive	53	59	59	6	59	6
R-29	Los Verdes Drive	55	64	64	9	64	9

1 No outdoor active use areas are associated with the commercial land use.
2 Numbers underlined represent noise levels that approach or exceed the NAC under activity category B (67) or C (72).
3 A 24 dBA exterior-to-interior sound attenuation with windows and doors closed is assumed for the classrooms.

Rec No.	Location	Adjusted Existing Noise Level	Future No Build	Alternative 3	Change from Existing Level	Alternative 6	Change from Existing Level
R-30	Los Verdes Drive	54	58	58	4	57	3
R-31	Los Verdes Drive	49	53	53	4	52	3
R-32	Los Verdes Drive	55	59	59	4	59	4
R-33	Los Verdes Drive	51	57	57	6	56	5
R-34	Los Verdes Drive	48	54	53	5	53	5
R-35	Los Verdes Drive	48	55	55	7	54	6
R-36	Los Verdes Drive	46	53	53	7	53	7
R-37	Los Verdes Drive	55	64	64	9	64	9
R-38	Calle Joaquin	52	56	56	4	59	7

Source: LSA Associates, Inc., 2006.

As shown in Table K, under the existing, future No Build, Alternative 3, and Alternative 6 traffic conditions, the predicted interior noise level at the Montessori Children's School (Receptor R-17) would not exceed the 52 dBA L_{eq} NAC under activity category E (52 dBA Leq-interior noise). Therefore, no sound barriers or building facade upgrades would be required to reduce interior noise levels.

City and County of San Luis Obispo Noise Standards

The City and County of San Luis Obispo's noise standards are expressed in terms of CNEL; however, the FHWA traffic noise model (TNM) 2.5 model generates its results as L_{eq} for peak hours. Based on the 24-hour noise level measurement conducted, the CNEL level was calculated to be 1 dBA higher than the peak hour L_{eq} level. Using the modeled L_{eq} to obtain the CNEL, the 2035 with and without project conditions in the project area would approach or exceed the exterior residential noise standard of 60 dBA CNEL for Receptors R-7, 8, 9, 10, 11, 12, 16, 20, 22, 23, 27, 28, and 29. These noise residential receptors, however, have the same projected noise levels both with and without the proposed project, for Alternative 3. Noise levels under Alternative 6 are slightly less than No Build levels, but all still exceed the City threshold. The proposed project would have a less than significant impact on noise-sensitive land uses; however, the project would use open-grade or rubberized asphalt on Los Osos Valley Road in front of the Los Verdes Parks I and II to attenuate noise.

H. CONSTRUCTION NOISE

Two types of short-term noise impacts would occur during construction of the project. First, construction crew commutes and the transport of construction equipment and materials to the project site would incrementally raise noise levels on access roads leading to the site. The pieces of heavy equipment for grading and construction activities will be moved on site, remain for the duration of each construction phase, and not add to the daily traffic volume in the project vicinity. There will be a relatively high single-event noise exposure potential at a maximum level of 87 dBA L_{max} with trucks passing at 15 m (50 ft). However, the projected construction traffic will be light when compared to the existing traffic volumes on US 101, Los Osos Valley Road, South Higuera Street, and other affected streets, and its associated long-term noise level change will not be perceptible. Therefore, short-term construction-related worker commutes and equipment transport noise impacts would not be substantial.

The second type of short-term noise impact is related to noise generated during excavation, grading, and roadway construction. Construction is performed in discrete steps, each of which has its own mix of equipment and, consequently, its own noise characteristics. These various sequential phases would change the character of the noise generated and, therefore, the noise levels along the alignments as construction progresses. Despite the variety in the type and size of construction equipment, similarities in the dominant noise sources and patterns of operation allow construction-related noise ranges to be categorized by work phase. Table J lists typical construction equipment noise levels (L_{max}) recommended for noise impact assessments, based on a distance of 15 m (50 ft) between the equipment and a noise receptor.

Typical noise levels at 15 m (50 ft) from active construction areas range up to 91 dBA L_{max} during the noisiest construction phases. The site preparation phase, which includes grading and paving of the median, tends to generate the highest noise levels because the noisiest construction equipment is earthmoving equipment. Earthmoving equipment includes excavating machinery such as backfillers,

bulldozers, and front loaders. Earthmoving and compacting equipment includes compactors, scrapers, and graders. Typical operating cycles for these types of construction equipment may involve one or two minutes of full power operation followed by three to four minutes at lower power settings.

Construction of the proposed project is expected to require the use of earthmovers, bulldozers, water trucks, and pickup trucks. Noise associated with the use of construction equipment is estimated between 79 and 89 dBA L_{max} at a distance of 15 m (50 ft) from the active construction area for the grading phase. As seen in Table J, the maximum noise level generated by each earthmover is assumed to be 88 dBA L_{max} at 15 m (50 ft) from the earthmover in operation. Each bulldozer would also generate 88 dBA L_{max} at 15 m (50 ft). The maximum noise level generated by water trucks and pickup trucks is approximately 86 dBA L_{max} at 15 m (50 ft) from these vehicles. Each doubling of the sound sources with equal strength increases the noise level by 3 dBA. Each piece of construction equipment operates as an individual point source. The worst-case composite noise level at the nearest residence during this phase of construction would be 91 dBA L_{max} (at a distance of 15 m [50 ft] from an active construction area).

In addition to the standard construction equipment, the proposed project will require the use of pile drivers. As shown in Table J, pile driving generates a noise level of approximately 93 dBA L_{max} at 50 feet. If the pile driving is conducted concurrently with the site preparation, the construction site could potentially generate noise levels of 95 dBA L_{max} at a distance of 15 m (50 feet).

Table L: Typical Construction Equipment Noise Levels

Type of Equipment	Range of Maximum Sound Levels Measured (dBA at 50 feet)	Suggested Maximum Sound Levels for Analysis (dBA at 50 feet)
Pile Drivers, 12,000 to 18,000 ft-lb/blow	81–96	93
Rock Drills	83–99	96
Jackhammers	75–85	82
Pneumatic Tools	78–88	85
Pumps	68–80	77
Dozers	85–90	88
Tractors	77–82	80
Front-End Loaders	86–90	88
Hydraulic Backhoe	81–90	86
Hydraulic Excavators	81–90	86
Graders	79–89	86
Air Compressors	76–86	86

Trucks	81–87	86

Source: Noise Control for Buildings and Manufacturing Plants, Bolt, Beranek & Newman 1987.

Project construction is anticipated to begin in January 2010 and continue for approximately 21 months.

The closest sensitive receptor locations are 15 m (50 ft) from the project construction areas. Therefore, these receptor locations may be subject to short-term noise reaching 95 dBA L_{max} generated by construction activities along the project alignment.

To minimize construction noise impacts for sensitive receptors adjacent to the project site, the following measures are recommended:

1. Implementation of Caltrans Standard Provisions Section 5.1. The provisions are as follows:

   "Sound control shall conform to the provisions in Section 7-1.01I (Sound Control Requirements) of the Standard Specifications and these special provisions. The noise level from the Contractor's operations, between the hours of 9:00 p.m. and 6:00 a.m., shall not exceed 86 dBA at a distance of 15 m (50 ft). This requirement in no way relieves the Contractor from responsibility for complying with local ordinances regulating noise level. The noise level requirement shall apply to the equipment on the job or related to the job, including but not limited to trucks, transit mixer or transient equipment that may or may not be owned by the contractor. The use of loud signals shall be avoided in favor of light warnings except those required by safety laws for the protection of personnel. Full compensation for conforming to the requirements of this section shall be considered as included in the prices paid for the various contract items of work involved and no additional will be allowed therefore."

2. A notice of the duration of potential impacts from noise, dust, and glare from the proposed construction will be placed in local news media by the project sponsor two weeks in advance of the beginning of construction. A number will be made available to the public for calls concerning noise impacts or the proposed schedule. If noise complaints are received, temporary barriers of plywood on safety shape can be effective at reducing noise impacts when the line of sight between the source and receiver can be interrupted.

3. Night construction should be avoided. If it cannot be avoided, the contractor shall conduct the noisiest operations nearest the residents as early in the evening as possible.

I. REFERENCES

Bolt, Beranek, and Newman. *Noise From Construction Equipment and Operations, Building Equipment, and Home Appliances*, December 31, 1971.

Caltrans, Caltrans Standard Special Provisions.

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Caltrans, TNM 2.5 Noise Prediction Model, Release July 30, 1991.

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Federal Highway Administration, Title 23, Code of Federal Regulations, Part 772, as amended.

Fehr & Peers Transportation Consultants., Traffic Study, 2006.

Harris, Cyril, *Handbook of Acoustical Measurements and Noise Control*, Third Edition, 1991.

U.S. Department of Transportation, *Federal Highway Administration Procedures for Abatement of Highway Traffic Noise*, CFR23 Part 772, as amended July 8, 1982.

U.S. EPA, Protective Noise Levels: Condensed Version of EPA Levels Document, 1978.

APPENDIX A

TRAFFIC NOISE MODEL (TNM) 2.5 PRINTOUTS FOR CALIBRATION RUNS

CALIBRATION M-1

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 01

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

Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Los Osos Valley WB	24.0	point51	51	5,762,472.0	2,285,071.2	117.20				Average	
		point50	50	5,762,344.5	2,285,142.2	113.70				Average	
		point49	49	5,762,223.5	2,285,174.5	111.90				Average	
		point48	48	5,762,092.0	2,285,186.8	111.10				Average	
		point47	47	5,761,960.5	2,285,198.8	110.10				Average	
		point46	46	5,761,816.5	2,285,211.0	109.40				Average	
		point45	45	5,761,684.5	2,285,224.8	108.80				Average	
		point44	44	5,761,549.5	2,285,241.5	108.40				Average	
		point43	43	5,761,433.0	2,285,282.5	108.60				Average	
		point42	42	5,761,339.0	2,285,333.2	109.30				Average	
		point41	41	5,761,250.0	2,285,395.8	110.80				Average	
		point40	40	5,761,169.0	2,285,462.0	114.60				Average	
		point39	39	5,761,095.5	2,285,544.0	120.20				Average	
		point38	38	5,761,030.5	2,285,654.8	120.30				Average	
		point37	37	5,760,982.5	2,285,770.2	126.10				Average	
		point36	36	5,760,947.5	2,285,882.2	127.30				Average	
		point35	35	5,760,909.0	2,285,992.0	129.80				Average	
		point34	34	5,760,871.5	2,286,100.2	129.60				Average	
		point33	33	5,760,822.5	2,286,238.8	127.40				Average	
		point32	32	5,760,787.5	2,286,348.5	119.80				Average	
		point31	31	5,760,743.0	2,286,483.2	112.10				Average	
		point30	30	5,760,723.5	2,286,597.5	109.20				Average	
		point29	29	5,760,676.5	2,286,732.5	108.30				Average	
		point28	28	5,760,626.0	2,286,871.2	108.10				Average	
		point27	27	5,760,582.5	2,286,991.5	110.20				Average	

		point26	26	5,760,540.5	2,287,095.0	109.40				Average	
		point25	25	5,760,487.5	2,287,212.0	111.80				Average	
		point24	24	5,760,435.5	2,287,324.0	112.70				Average	
		point23	23	5,760,379.5	2,287,430.5	112.10				Average	
		point22	22	5,760,320.0	2,287,538.2	113.40				Average	
		point21	21	5,760,255.0	2,287,649.0	115.30				Average	
		point20	20	5,760,181.5	2,287,766.0	114.90				Average	
		point19	19	5,760,110.5	2,287,876.8	115.40				Average	
		point18	18	5,760,050.5	2,287,970.8	116.90				Average	
		point17	17	5,759,980.5	2,288,071.8	117.60				Average	
		point16	16	5,759,916.5	2,288,173.0	117.20				Average	
		point15	15	5,759,849.0	2,288,271.8	117.20				Average	
		point14	14	5,759,785.5	2,288,371.8	117.20				Average	
		point13	13	5,759,728.5	2,288,456.0	117.20				Average	
		point12	12	5,759,671.0	2,288,544.0	117.20					
Los Osos Valley EB	24.0	point52	52	5,759,628.0	2,288,520.0	117.20				Average	
		point53	53	5,759,686.0	2,288,432.2	117.20				Average	
		point54	54	5,759,742.5	2,288,348.0	117.20				Average	
		point55	55	5,759,810.5	2,288,250.0	117.20				Average	
		point56	56	5,759,881.5	2,288,151.2	117.20				Average	
		point57	57	5,759,950.5	2,288,050.0	117.60				Average	
		point58	58	5,760,022.0	2,287,949.0	116.90				Average	
		point59	59	5,760,082.0	2,287,861.2	115.40				Average	
		point60	60	5,760,153.0	2,287,750.5	114.90				Average	
		point61	61	5,760,226.5	2,287,633.8	115.30				Average	
		point62	62	5,760,288.5	2,287,524.2	113.40				Average	
		point63	63	5,760,350.0	2,287,417.0	112.10				Average	
		point64	64	5,760,404.0	2,287,310.0	112.70				Average	
		point65	65	5,760,456.0	2,287,202.0	111.80				Average	
		point66	66	5,760,509.0	2,287,085.2	109.40				Average	
		point67	67	5,760,552.5	2,286,982.2	110.20				Average	
		point68	68	5,760,595.0	2,286,860.2	108.10				Average	
		point69	69	5,760,640.5	2,286,721.0	108.30				Average	
		point70	70	5,760,687.5	2,286,587.0	109.20				Average	
		point71	71	5,760,719.0	2,286,475.5	112.10				Average	
		point72	72	5,760,769.0	2,286,346.0	119.80				Average	
		point73	73	5,760,807.0	2,286,234.5	127.40				Average	
		point74	74	5,760,855.5	2,286,094.8	129.60				Average	
		point75	75	5,760,893.0	2,285,986.2	129.80				Average	

		point76	76	5,760,931.5	2,285,876.8	127.30				Average	
		point77	77	5,760,969.0	2,285,765.5	126.10				Average	
		point78	78	5,761,017.5	2,285,645.5	120.30				Average	
		point79	79	5,761,084.5	2,285,532.0	120.20				Average	
		point80	80	5,761,158.0	2,285,450.0	114.60				Average	
		point81	81	5,761,240.5	2,285,379.0	110.80				Average	
		point82	82	5,761,330.0	2,285,316.2	109.30				Average	
		point83	83	5,761,424.0	2,285,265.8	108.60				Average	
		point84	84	5,761,545.5	2,285,222.0	108.40				Average	
		point85	85	5,761,681.0	2,285,191.8	108.80				Average	
		point86	86	5,761,813.0	2,285,178.0	109.40				Average	
		point87	87	5,761,957.0	2,285,165.8	110.10				Average	
		point88	88	5,762,088.5	2,285,153.8	111.30				Average	
		point89	89	5,762,217.0	2,285,142.2	111.90				Average	
		point90	90	5,762,335.0	2,285,106.5	113.70				Average	
		point91	91	5,762,461.5	2,285,038.5	117.20					
Higuera NB	24.0	point147	147	5,761,753.0	2,283,727.0	118.90				Average	
		point118	118	5,761,806.5	2,283,815.8	118.90				Average	
		point117	117	5,761,858.5	2,283,905.8	118.90				Average	
		point116	116	5,761,903.5	2,283,981.5	118.90				Average	
		point115	115	5,761,949.5	2,284,062.8	118.90				Average	
		point114	114	5,761,999.0	2,284,148.8	118.90				Average	
		point113	113	5,762,054.0	2,284,240.8	118.90				Average	
		point112	112	5,762,103.0	2,284,323.2	118.90				Average	
		point111	111	5,762,154.5	2,284,413.0	118.90				Average	
		point110	110	5,762,202.5	2,284,492.5	119.10				Average	
		point109	109	5,762,257.5	2,284,584.5	119.40				Average	
		point108	108	5,762,307.0	2,284,663.8	118.80				Average	
		point107	107	5,762,362.5	2,284,755.8	118.30				Average	
		point106	106	5,762,415.5	2,284,844.0	118.90				Average	
		point105	105	5,762,460.0	2,284,923.5	117.90				Average	
		point104	104	5,762,514.5	2,285,015.5	117.70				Average	
		point103	103	5,762,558.0	2,285,095.8	117.80				Average	
		point102	102	5,762,604.0	2,285,176.5	117.80				Average	
		point101	101	5,762,651.0	2,285,258.8	117.50				Average	
		point100	100	5,762,701.5	2,285,337.8	117.00				Average	
		point99	99	5,762,762.0	2,285,431.5	117.70				Average	
		point98	98	5,762,806.0	2,285,508.0	117.20				Average	
		point97	97	5,762,851.0	2,285,596.5	117.30				Average	

		point96	96	5,762,903.5	2,285,695.0	118.10				Average	
		point95	95	5,762,965.0	2,285,810.2	117.70				Average	
		point94	94	5,763,029.5	2,285,932.2	117.80				Average	
		point93	93	5,763,084.0	2,286,038.2	117.80				Average	
		point92	92	5,763,139.0	2,286,119.5	117.80					
Higuera SB	24.0	point119	119	5,763,111.5	2,286,133.5	117.80				Average	
		point120	120	5,763,057.0	2,286,052.2	117.80				Average	
		point121	121	5,763,002.0	2,285,946.2	117.80				Average	
		point122	122	5,762,937.5	2,285,824.2	117.70				Average	
		point123	123	5,762,876.0	2,285,709.0	118.10				Average	
		point124	124	5,762,824.0	2,285,610.5	117.30				Average	
		point125	125	5,762,778.5	2,285,521.8	117.20				Average	
		point126	126	5,762,736.5	2,285,445.5	117.70				Average	
		point127	127	5,762,681.0	2,285,347.5	117.00				Average	
		point128	128	5,762,634.5	2,285,270.5	117.50				Average	
		point129	129	5,762,583.5	2,285,186.0	117.80				Average	
		point130	130	5,762,537.5	2,285,105.5	117.80				Average	
		point131	131	5,762,494.0	2,285,025.2	117.70				Average	
		point132	132	5,762,438.0	2,284,936.5	117.90				Average	
		point133	133	5,762,394.0	2,284,856.2	118.00				Average	
		point134	134	5,762,343.5	2,284,766.5	118.30				Average	
		point135	135	5,762,291.5	2,284,671.2	118.80				Average	
		point136	136	5,762,245.5	2,284,589.5	119.40				Average	
		point137	137	5,762,194.0	2,284,498.0	119.10				Average	
		point138	138	5,762,146.0	2,284,418.5	118.90				Average	
		point139	139	5,762,094.5	2,284,328.5	118.90				Average	
		point140	140	5,762,045.5	2,284,246.2	118.90				Average	
		point141	141	5,761,991.0	2,284,153.2	118.90				Average	
		point142	142	5,761,941.5	2,284,067.0	118.90				Average	
		point143	143	5,761,895.0	2,283,987.0	118.90				Average	
		point144	144	5,761,850.0	2,283,912.8	118.90				Average	
		point145	145	5,761,795.5	2,283,820.8	118.90				Average	
		point146	146	5,761,744.0	2,283,732.0	118.90					
US 101 NB 1	24.0	point238	238	5,760,404.5	2,283,771.2	115.00				Average	
		point159	159	5,760,418.5	2,283,950.0	109.70				Average	
		point158	158	5,760,430.0	2,284,090.5	108.50				Average	
		point157	157	5,760,435.5	2,284,276.0	107.30				Average	
		point156	156	5,760,447.0	2,284,457.2	105.00				Average	
		point155	155	5,760,455.0	2,284,641.2	103.60				Average	

		point154	154	5,760,463.5	2,284,804.5	102.00				Average	
		point153	153	5,760,484.0	2,285,000.2	101.10				Average	
		point152	152	5,760,519.0	2,285,172.5	101.40				Average	
		point151	151	5,760,570.5	2,285,349.0	102.20				Average	
		point150	150	5,760,639.0	2,285,520.5	105.00				Average	
		point149	149	5,760,720.0	2,285,681.8	106.80				Average	
		point148	148	5,760,805.0	2,285,843.5	105.00					
US 101 NB 2	24.0	point171	171	5,760,932.0	2,286,087.2	107.30				Average	
		point170	170	5,761,038.0	2,286,285.0	109.20				Average	
		point169	169	5,761,190.0	2,286,574.5	111.50				Average	
		point168	168	5,761,326.5	2,286,835.5	115.00				Average	
		point167	167	5,761,464.5	2,287,095.2	117.00				Average	
		point166	166	5,761,595.5	2,287,348.2	119.00				Average	
		point165	165	5,761,755.0	2,287,647.8	120.70				Average	
		point164	164	5,761,919.5	2,287,958.8	123.70				Average	
		point163	163	5,762,079.5	2,288,267.8	125.00				Average	
		point162	162	5,762,225.0	2,288,539.8	125.00				Average	
		point161	161	5,762,358.5	2,288,794.5	128.50				Average	
		point160	160	5,762,500.0	2,289,064.8	130.00					
US 101 SB 1	24.0	point173	173	5,760,788.0	2,285,947.2	106.70				Average	
		point174	174	5,760,664.5	2,285,712.0	106.80				Average	
		point175	175	5,760,583.5	2,285,550.8	106.70				Average	
		point176	176	5,760,505.0	2,285,367.5	105.30				Average	
		point177	177	5,760,449.0	2,285,185.8	104.10				Average	
		point178	178	5,760,412.5	2,285,010.0	103.60				Average	
		point179	179	5,760,394.5	2,284,810.5	103.50				Average	
		point180	180	5,760,386.5	2,284,647.5	103.60				Average	
		point181	181	5,760,378.0	2,284,463.2	105.10				Average	
		point182	182	5,760,364.5	2,284,280.8	106.70				Average	
		point183	183	5,760,358.5	2,284,095.2	108.50				Average	
		point184	184	5,760,347.5	2,283,952.2	109.60				Average	
		point237	237	5,760,335.5	2,283,772.5	109.70					
US 101 SB 2	24.0	point186	186	5,762,449.5	2,289,092.5	130.00				Average	
		point187	187	5,762,303.0	2,288,824.8	128.50				Average	
		point188	188	5,762,169.5	2,288,570.0	125.00				Average	
		point189	189	5,762,024.0	2,288,297.8	125.00				Average	
		point190	190	5,761,864.0	2,287,989.0	123.60				Average	
		point191	191	5,761,699.5	2,287,678.0	120.70				Average	
		point192	192	5,761,540.0	2,287,378.5	119.50				Average	

		point193	193	5,761,409.0	2,287,125.2	117.00				Average	
		point194	194	5,761,271.0	2,286,865.8	115.00				Average	
		point195	195	5,761,134.5	2,286,604.5	111.50				Average	
		point196	196	5,760,982.5	2,286,315.2	109.20				Average	
		point197	197	5,760,905.5	2,286,168.0	108.40					
US 101 On-Ramp	12.0	point211	211	5,761,017.5	2,285,577.0	122.40				Average	
		point210	210	5,760,968.5	2,285,523.0	122.10				Average	
		point209	209	5,760,914.0	2,285,466.2	118.00				Average	
		point208	208	5,760,862.5	2,285,419.5	114.60				Average	
		point207	207	5,760,802.0	2,285,393.8	113.30				Average	
		point206	206	5,760,744.5	2,285,404.2	107.90				Average	
		point205	205	5,760,707.5	2,285,431.5	104.70				Average	
		point204	204	5,760,685.0	2,285,478.2	104.50				Average	
		point203	203	5,760,685.0	2,285,529.8	103.40				Average	
		point202	202	5,760,701.5	2,285,587.2	103.40				Average	
		point201	201	5,760,727.5	2,285,642.2	102.50				Average	
		point200	200	5,760,758.5	2,285,705.0	104.50				Average	
		point199	199	5,760,785.0	2,285,760.2	104.80				Average	
		point198	198	5,760,813.5	2,285,816.2	105.30					
US 101 NB Off-Ramp	12.0	point213	213	5,760,460.0	2,284,353.0	106.00				Average	
		point214	214	5,760,472.0	2,284,457.0	105.00				Average	
		point215	215	5,760,481.5	2,284,543.2	104.00				Average	
		point216	216	5,760,496.5	2,284,648.0	102.50				Average	
		point217	217	5,760,508.5	2,284,754.2	103.00				Average	
		point221	221	5,760,524.0	2,284,853.2	104.00				Average	
		point222	222	5,760,555.0	2,284,954.0	105.30				Average	
		point223	223	5,760,596.5	2,285,048.5	106.40				Average	
		point224	224	5,760,651.5	2,285,144.5	107.50				Average	
		point225	225	5,760,716.5	2,285,229.0	108.50				Average	
		point226	226	5,760,779.0	2,285,297.8	110.30				Average	
		point227	227	5,760,846.0	2,285,364.2	114.30				Average	
		point228	228	5,760,910.5	2,285,433.8	117.90				Average	
		point229	229	5,760,975.5	2,285,513.5	121.60				Average	
		point230	230	5,761,027.0	2,285,565.0	120.20					
US 101 SB Off-Ramp	12.0	point236	236	5,760,801.5	2,286,530.5	105.00				Average	
		point235	235	5,760,910.0	2,286,574.0	107.00				Average	
		point234	234	5,761,030.0	2,286,632.5	110.00				Average	
		point233	233	5,761,124.0	2,286,701.8	111.00				Average	
		point232	232	5,761,216.5	2,286,829.5	113.80					

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 01

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
Los Osos Valley WB	point51	51	868	40	20	40	20	35	0	0	0	0
	point50	50	868	40	20	40	20	35	0	0	0	0
	point49	49	868	40	20	40	20	35	0	0	0	0
	point48	48	868	40	20	40	20	35	0	0	0	0
	point47	47	868	40	20	40	20	35	0	0	0	0
	point46	46	868	40	20	40	20	35	0	0	0	0
	point45	45	868	40	20	40	20	35	0	0	0	0
	point44	44	868	40	20	40	20	35	0	0	0	0
	point43	43	868	40	20	40	20	35	0	0	0	0
	point42	42	868	40	20	40	20	35	0	0	0	0
	point41	41	868	40	20	40	20	35	0	0	0	0
	point40	40	868	40	20	40	20	35	0	0	0	0
	point39	39	868	40	20	40	20	35	0	0	0	0
	point38	38	868	40	20	40	20	35	0	0	0	0
	point37	37	868	40	20	40	20	35	0	0	0	0
	point36	36	868	40	20	40	20	35	0	0	0	0
	point35	35	868	40	20	40	20	35	0	0	0	0
	point34	34	868	40	20	40	20	35	0	0	0	0
	point33	33	868	40	20	40	20	35	0	0	0	0
	point32	32	868	40	20	40	20	35	0	0	0	0
	point31	31	868	40	20	40	20	35	0	0	0	0
	point30	30	868	40	20	40	20	35	0	0	0	0
	point29	29	868	40	20	40	20	35	0	0	0	0

	point28	28	868	40	20	40	20	35	0	0	0	0
	point27	27	868	40	20	40	20	35	0	0	0	0
	point26	26	868	40	20	40	20	35	0	0	0	0
	point25	25	868	40	20	40	20	35	0	0	0	0
	point24	24	868	40	20	40	20	35	0	0	0	0
	point23	23	868	40	20	40	20	35	0	0	0	0
	point22	22	868	40	20	40	20	35	0	0	0	0
	point21	21	868	40	20	40	20	35	0	0	0	0
	point20	20	868	40	20	40	20	35	0	0	0	0
	point19	19	868	40	20	40	20	35	0	0	0	0
	point18	18	868	40	20	40	20	35	0	0	0	0
	point17	17	868	40	20	40	20	35	0	0	0	0
	point16	16	868	40	20	40	20	35	0	0	0	0
	point15	15	868	40	20	40	20	35	0	0	0	0
	point14	14	868	40	20	40	20	35	0	0	0	0
	point13	13	868	40	20	40	20	35	0	0	0	0
	point12	12										
Los Osos Valley EB	point52	52	680	40	24	40	4	35	0	0	0	0
	point53	53	680	40	24	40	4	35	0	0	0	0
	point54	54	680	40	24	40	4	35	0	0	0	0
	point55	55	680	40	24	40	4	35	0	0	0	0
	point56	56	680	40	24	40	4	35	0	0	0	0
	point57	57	680	40	24	40	4	35	0	0	0	0
	point58	58	680	40	24	40	4	35	0	0	0	0
	point59	59	680	40	24	40	4	35	0	0	0	0
	point60	60	680	40	24	40	4	35	0	0	0	0
	point61	61	680	40	24	40	4	35	0	0	0	0
	point62	62	680	40	24	40	4	35	0	0	0	0
	point63	63	680	40	24	40	4	35	0	0	0	0
	point64	64	680	40	24	40	4	35	0	0	0	0
	point65	65	680	40	24	40	4	35	0	0	0	0
	point66	66	680	40	24	40	4	35	0	0	0	0
	point67	67	680	40	24	40	4	35	0	0	0	0
	point68	68	680	40	24	40	4	35	0	0	0	0
	point69	69	680	40	24	40	4	35	0	0	0	0

	point70	70	680	40	24	40	4	35	0	0	0	0
	point71	71	680	40	24	40	4	35	0	0	0	0
	point72	72	680	40	24	40	4	35	0	0	0	0
	point73	73	680	40	24	40	4	35	0	0	0	0
	point74	74	680	40	24	40	4	35	0	0	0	0
	point75	75	680	40	24	40	4	35	0	0	0	0
	point76	76	680	40	24	40	4	35	0	0	0	0
	point77	77	680	40	24	40	4	35	0	0	0	0
	point78	78	680	40	24	40	4	35	0	0	0	0
	point79	79	680	40	24	40	4	35	0	0	0	0
	point80	80	680	40	24	40	4	35	0	0	0	0
	point81	81	680	40	24	40	4	35	0	0	0	0
	point82	82	680	40	24	40	4	35	0	0	0	0
	point83	83	680	40	24	40	4	35	0	0	0	0
	point84	84	680	40	24	40	4	35	0	0	0	0
	point85	85	680	40	24	40	4	35	0	0	0	0
	point86	86	680	40	24	40	4	35	0	0	0	0
	point87	87	680	40	24	40	4	35	0	0	0	0
	point88	88	680	40	24	40	4	35	0	0	0	0
	point89	89	680	40	24	40	4	35	0	0	0	0
	point90	90	680	40	24	40	4	35	0	0	0	0
	point91	91										
Higuera NB	point147	147	244	40	12	40	8	35	0	0	0	0
	point118	118	244	40	12	40	8	35	0	0	0	0
	point117	117	244	40	12	40	8	35	0	0	0	0
	point116	116	244	40	12	40	8	35	0	0	0	0
	point115	115	244	40	12	40	8	35	0	0	0	0
	point114	114	244	40	12	40	8	35	0	0	0	0
	point113	113	244	40	12	40	8	35	0	0	0	0
	point112	112	244	40	12	40	8	35	0	0	0	0
	point111	111	244	40	12	40	8	35	0	0	0	0
	point110	110	244	40	12	40	8	35	0	0	0	0
	point109	109	244	40	12	40	8	35	0	0	0	0
	point108	108	244	40	12	40	8	35	0	0	0	0
	point107	107	244	40	12	40	8	35	0	0	0	0

	point106	106	244	40	12	40	8	35	0	0	0	0
	point105	105	244	40	12	40	8	35	0	0	0	0
	point104	104	244	40	12	40	8	35	0	0	0	0
	point103	103	244	40	12	40	8	35	0	0	0	0
	point102	102	244	40	12	40	8	35	0	0	0	0
	point101	101	244	40	12	40	8	35	0	0	0	0
	point100	100	244	40	12	40	8	35	0	0	0	0
	point99	99	244	40	12	40	8	35	0	0	0	0
	point98	98	244	40	12	40	8	35	0	0	0	0
	point97	97	244	40	12	40	8	35	0	0	0	0
	point96	96	244	40	12	40	8	35	0	0	0	0
	point95	95	244	40	12	40	8	35	0	0	0	0
	point94	94	244	40	12	40	8	35	0	0	0	0
	point93	93	244	40	12	40	8	35	0	0	0	0
	point92	92										
Higuera SB	point119	119	244	40	12	40	8	35	0	0	0	0
	point120	120	244	40	12	40	8	35	0	0	0	0
	point121	121	244	40	12	40	8	35	0	0	0	0
	point122	122	244	40	12	40	8	35	0	0	0	0
	point123	123	244	40	12	40	8	35	0	0	0	0
	point124	124	244	40	12	40	8	35	0	0	0	0
	point125	125	244	40	12	40	8	35	0	0	0	0
	point126	126	244	40	12	40	8	35	0	0	0	0
	point127	127	244	40	12	40	8	35	0	0	0	0
	point128	128	244	40	12	40	8	35	0	0	0	0
	point129	129	244	40	12	40	8	35	0	0	0	0
	point130	130	244	40	12	40	8	35	0	0	0	0
	point131	131	244	40	12	40	8	35	0	0	0	0
	point132	132	244	40	12	40	8	35	0	0	0	0
	point133	133	244	40	12	40	8	35	0	0	0	0
	point134	134	244	40	12	40	8	35	0	0	0	0
	point135	135	244	40	12	40	8	35	0	0	0	0
	point136	136	244	40	12	40	8	35	0	0	0	0
	point137	137	244	40	12	40	8	35	0	0	0	0
	point138	138	244	40	12	40	8	35	0	0	0	0

	point139	139	244	40	12	40	8	35	0	0	0	0
	point140	140	244	40	12	40	8	35	0	0	0	0
	point141	141	244	40	12	40	8	35	0	0	0	0
	point142	142	244	40	12	40	8	35	0	0	0	0
	point143	143	244	40	12	40	8	35	0	0	0	0
	point144	144	244	40	12	40	8	35	0	0	0	0
	point145	145	244	40	12	40	8	35	0	0	0	0
	point146	146										
US 101 NB 1	point238	238	1340	65	44	65	60	60	0	0	0	0
	point159	159	1340	65	44	65	60	60	0	0	0	0
	point158	158	1340	65	44	65	60	60	0	0	0	0
	point157	157	1340	65	44	65	60	60	0	0	0	0
	point156	156	1340	65	44	65	60	60	0	0	0	0
	point155	155	1340	65	44	65	60	60	0	0	0	0
	point154	154	1340	65	44	65	60	60	0	0	0	0
	point153	153	1340	65	44	65	60	60	0	0	0	0
	point152	152	1340	65	44	65	60	60	0	0	0	0
	point151	151	1340	65	44	65	60	60	0	0	0	0
	point150	150	1340	65	44	65	60	60	0	0	0	0
	point149	149	1340	65	44	65	60	60	0	0	0	0
	point148	148										
US 101 NB 2	point171	171	1340	65	44	65	60	60	0	0	0	0
	point170	170	1340	65	44	65	60	60	0	0	0	0
	point169	169	1340	65	44	65	60	60	0	0	0	0
	point168	168	1340	65	44	65	60	60	0	0	0	0
	point167	167	1340	65	44	65	60	60	0	0	0	0
	point166	166	1340	65	44	65	60	60	0	0	0	0
	point165	165	1340	65	44	65	60	60	0	0	0	0
	point164	164	1340	65	44	65	60	60	0	0	0	0
	point163	163	1340	65	44	65	60	60	0	0	0	0
	point162	162	1340	65	44	65	60	60	0	0	0	0
	point161	161	1340	65	44	65	60	60	0	0	0	0
	point160	160										
US 101 SB 1	point173	173	1324	65	52	65	80	60	0	0	0	0
	point174	174	1324	65	52	65	80	60	0	0	0	0

	point175	175	1324	65	52	65	80	60	0	0	0	0
	point176	176	1324	65	52	65	80	60	0	0	0	0
	point177	177	1324	65	52	65	80	60	0	0	0	0
	point178	178	1324	65	52	65	80	60	0	0	0	0
	point179	179	1324	65	52	65	80	60	0	0	0	0
	point180	180	1324	65	52	65	80	60	0	0	0	0
	point181	181	1324	65	52	65	80	60	0	0	0	0
	point182	182	1324	65	52	65	80	60	0	0	0	0
	point183	183	1324	65	52	65	80	60	0	0	0	0
	point184	184	1324	65	52	65	80	60	0	0	0	0
	point237	237										
US 101 SB 2	point186	186	1324	65	52	65	80	60	0	0	0	0
	point187	187	1324	65	52	65	80	60	0	0	0	0
	point188	188	1324	65	52	65	80	60	0	0	0	0
	point189	189	1324	65	52	65	80	60	0	0	0	0
	point190	190	1324	65	52	65	80	60	0	0	0	0
	point191	191	1324	65	52	65	80	60	0	0	0	0
	point192	192	1324	65	52	65	80	60	0	0	0	0
	point193	193	1324	65	52	65	80	60	0	0	0	0
	point194	194	1324	65	52	65	80	60	0	0	0	0
	point195	195	1324	65	52	65	80	60	0	0	0	0
	point196	196	1324	65	52	65	80	60	0	0	0	0
	point197	197										
US 101 On-Ramp	point211	211	0	0	0	0	0	0	0	0	0	0
	point210	210	0	0	0	0	0	0	0	0	0	0
	point209	209	0	0	0	0	0	0	0	0	0	0
	point208	208	0	0	0	0	0	0	0	0	0	0
	point207	207	0	0	0	0	0	0	0	0	0	0
	point206	206	0	0	0	0	0	0	0	0	0	0
	point205	205	0	0	0	0	0	0	0	0	0	0
	point204	204	0	0	0	0	0	0	0	0	0	0
	point203	203	0	0	0	0	0	0	0	0	0	0
	point202	202	0	0	0	0	0	0	0	0	0	0
	point201	201	0	0	0	0	0	0	0	0	0	0
	point200	200	0	0	0	0	0	0	0	0	0	0

	point199	199	0	0	0	0	0	0	0	0	0	0
	point198	198										
US 101 NB Off-Ramp	point213	213	428	45	20	45	24	40	0	0	0	0
	point214	214	428	45	20	45	24	40	0	0	0	0
	point215	215	428	45	20	45	24	40	0	0	0	0
	point216	216	428	45	20	45	24	40	0	0	0	0
	point217	217	428	45	20	45	24	40	0	0	0	0
	point221	221	428	45	20	45	24	40	0	0	0	0
	point222	222	428	45	20	45	24	40	0	0	0	0
	point223	223	428	45	20	45	24	40	0	0	0	0
	point224	224	428	45	20	45	24	40	0	0	0	0
	point225	225	428	45	20	45	24	40	0	0	0	0
	point226	226	428	45	20	45	24	40	0	0	0	0
	point227	227	428	45	20	45	24	40	0	0	0	0
	point228	228	428	45	20	45	24	40	0	0	0	0
	point229	229	428	45	20	45	24	40	0	0	0	0
	point230	230										
US 101 SB Off-Ramp	point236	236	0	0	0	0	0	0	0	0	0	0
	point235	235	0	0	0	0	0	0	0	0	0	0
	point234	234	0	0	0	0	0	0	0	0	0	0
	point233	233	0	0	0	0	0	0	0	0	0	0
	point232	232										

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 01

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
M-1	1	1	5,760,371.0	2,287,505.8	112.50	5.00	0.00	66	12.0	8.0	Y

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: TERRAIN LINES
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 01

Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
Los Oso Valley WB	40	5,762,477.0	2,285,082.2	117.20
	39	5,762,347.5	2,285,152.0	113.70
	38	5,762,225.0	2,285,186.0	111.90
	37	5,762,093.0	2,285,199.2	111.10
	36	5,761,961.5	2,285,212.2	110.10
	35	5,761,817.5	2,285,224.0	109.40
	34	5,761,685.0	2,285,238.0	108.80
	33	5,761,553.5	2,285,256.2	108.40
	32	5,761,436.5	2,285,289.8	108.60
	31	5,761,343.0	2,285,340.2	109.30
	30	5,761,255.5	2,285,404.0	110.80
	29	5,761,176.0	2,285,469.5	114.60
	28	5,761,108.0	2,285,552.5	120.20
	27	5,761,043.5	2,285,660.2	120.30
	26	5,760,995.5	2,285,775.8	126.10
	25	5,760,956.0	2,285,887.2	127.30
	24	5,760,917.5	2,285,997.0	129.80
	23	5,760,881.5	2,286,104.2	129.60
	22	5,760,835.5	2,286,242.2	127.40
	21	5,760,800.5	2,286,351.8	119.80
	20	5,760,754.5	2,286,488.8	112.10
	19	5,760,735.5	2,286,603.0	109.20
	18	5,760,700.0	2,286,744.0	108.30
	17	5,760,649.5	2,286,882.5	108.10

	16	5,760,601.5	2,287,001.8	110.20
	15	5,760,559.0	2,287,105.2	109.40
	14	5,760,506.0	2,287,222.2	111.80
	13	5,760,454.5	2,287,334.2	112.70
	12	5,760,398.0	2,287,440.5	112.10
	11	5,760,338.5	2,287,548.5	113.40
	10	5,760,273.5	2,287,659.2	115.30
	9	5,760,200.0	2,287,776.2	114.90
	8	5,760,129.0	2,287,887.0	115.40
	7	5,760,069.0	2,287,981.0	116.90
	6	5,760,000.5	2,288,084.8	117.60
	5	5,759,937.0	2,288,186.0	117.20
	4	5,759,869.5	2,288,284.5	117.20
	3	5,759,804.0	2,288,382.0	117.20
	2	5,759,747.5	2,288,466.2	117.20
	1	5,759,689.5	2,288,554.2	117.20
Los Oso Valley EB	80	5,762,455.0	2,285,023.5	117.20
	79	5,762,332.0	2,285,097.2	113.70
	78	5,762,216.5	2,285,132.0	111.90
	77	5,762,088.0	2,285,145.0	111.30
	76	5,761,956.5	2,285,155.5	110.10
	75	5,761,812.5	2,285,167.8	109.40
	74	5,761,679.5	2,285,178.8	108.80
	73	5,761,543.0	2,285,207.0	108.40
	72	5,761,422.5	2,285,260.0	108.60
	71	5,761,326.5	2,285,312.0	109.30
	70	5,761,236.5	2,285,373.0	110.80
	69	5,761,152.0	2,285,444.0	114.60
	68	5,761,078.0	2,285,523.0	120.20
	67	5,761,004.0	2,285,639.5	120.30
	66	5,760,959.5	2,285,762.5	126.10
	65	5,760,921.5	2,285,874.0	127.30
	64	5,760,883.0	2,285,983.5	129.80
	63	5,760,843.5	2,286,093.0	129.60
	62	5,760,795.5	2,286,231.8	127.40

	61	5,760,757.5	2,286,343.0	119.80
	60	5,760,704.5	2,286,471.8	112.10
	59	5,760,673.0	2,286,583.2	109.20
	58	5,760,626.0	2,286,717.0	108.30
	57	5,760,583.0	2,286,857.0	108.10
	56	5,760,541.0	2,286,979.0	110.20
	55	5,760,497.0	2,287,082.0	109.40
	54	5,760,441.0	2,287,194.0	111.80
	53	5,760,389.0	2,287,301.8	112.70
	52	5,760,335.0	2,287,409.0	112.10
	51	5,760,273.5	2,287,516.2	113.40
	50	5,760,209.0	2,287,621.2	115.30
	49	5,760,135.5	2,287,738.0	114.90
	48	5,760,064.5	2,287,848.8	115.40
	47	5,760,005.0	2,287,936.5	116.90
	46	5,759,933.0	2,288,037.5	117.60
	45	5,759,864.0	2,288,138.8	117.20
	44	5,759,793.0	2,288,237.5	117.20
	43	5,759,725.0	2,288,335.5	117.20
	42	5,759,668.5	2,288,419.8	117.20
	41	5,759,610.5	2,288,507.5	117.20
Higuera NB	110	5,761,764.5	2,283,719.0	118.90
	109	5,761,817.5	2,283,807.8	118.90
	108	5,761,870.0	2,283,897.8	118.90
	107	5,761,914.5	2,283,973.5	118.90
	106	5,761,960.5	2,284,054.8	118.90
	105	5,762,010.0	2,284,141.0	118.90
	104	5,762,065.0	2,284,233.0	118.90
	103	5,762,114.0	2,284,315.2	118.90
	102	5,762,165.5	2,284,405.0	118.90
	101	5,762,213.5	2,284,484.5	119.10
	100	5,762,268.5	2,284,576.5	119.40
	99	5,762,318.0	2,284,655.8	118.80
	98	5,762,374.0	2,284,747.8	118.30
	97	5,762,426.5	2,284,836.0	118.90

	96	5,762,471.5	2,284,915.5	117.90
	95	5,762,525.5	2,285,007.5	117.70
	94	5,762,569.0	2,285,087.8	117.80
	93	5,762,615.0	2,285,168.5	117.80
	92	5,762,662.5	2,285,250.8	117.50
	91	5,762,713.0	2,285,330.0	117.00
	90	5,762,773.0	2,285,423.5	117.70
	89	5,762,817.0	2,285,500.0	117.20
	88	5,762,862.5	2,285,588.5	117.30
	87	5,762,914.5	2,285,687.0	118.10
	86	5,762,976.0	2,285,802.2	117.70
	85	5,763,040.5	2,285,924.5	117.80
	84	5,763,095.5	2,286,030.2	117.80
	83	5,763,150.5	2,286,111.5	117.80
Higuera SB	139	5,761,733.5	2,283,737.5	118.90
	138	5,761,785.5	2,283,826.2	118.90
	137	5,761,839.5	2,283,918.2	118.90
	136	5,761,885.0	2,283,992.5	118.90
	135	5,761,931.0	2,284,072.8	118.90
	134	5,761,980.5	2,284,158.8	118.90
	133	5,762,035.0	2,284,251.8	118.90
	132	5,762,084.0	2,284,334.0	118.90
	131	5,762,135.5	2,284,424.0	118.90
	130	5,762,183.5	2,284,503.5	119.10
	129	5,762,235.0	2,284,595.0	119.40
	128	5,762,281.5	2,284,677.0	118.80
	127	5,762,333.0	2,284,772.0	118.30
	126	5,762,383.5	2,284,862.0	118.00
	125	5,762,427.5	2,284,942.0	117.90
	124	5,762,483.5	2,285,031.0	117.70
	123	5,762,527.0	2,285,111.0	117.80
	122	5,762,573.0	2,285,191.8	117.80
	121	5,762,624.0	2,285,276.2	117.50
	120	5,762,671.0	2,285,353.0	117.00
	119	5,762,726.5	2,285,451.0	117.70

	118	5,762,768.0	2,285,527.5	117.20
	117	5,762,813.5	2,285,616.2	117.30
	116	5,762,865.5	2,285,714.8	118.10
	115	5,762,927.0	2,285,829.8	117.70
	114	5,762,991.5	2,285,952.0	117.80
	113	5,763,046.5	2,286,058.0	117.80
	112	5,763,101.0	2,286,139.2	117.80
US 101 NB Off-Ramp	220	5,761,039.0	2,285,548.0	120.20
	219	5,760,990.0	2,285,500.5	121.60
	218	5,760,919.5	2,285,427.0	117.90
	217	5,760,854.5	2,285,357.2	114.30
	216	5,760,787.5	2,285,291.0	110.30
	215	5,760,725.0	2,285,222.2	108.50
	214	5,760,660.5	2,285,137.5	107.50
	213	5,760,605.5	2,285,041.5	106.40
	212	5,760,563.5	2,284,947.2	105.30
	211	5,760,533.0	2,284,846.5	104.00
	210	5,760,517.5	2,284,747.5	103.00
	209	5,760,505.5	2,284,641.2	102.50
	208	5,760,490.0	2,284,536.5	104.00
	207	5,760,480.5	2,284,450.2	105.00
	206	5,760,468.5	2,284,346.2	106.00
US 101 SB Off-Ramp	225	5,760,796.0	2,286,543.5	105.00
	224	5,760,904.5	2,286,587.2	107.00
	223	5,761,024.5	2,286,645.8	110.00
	222	5,761,120.0	2,286,707.2	111.00
	221	5,761,207.0	2,286,834.5	113.80
US 101 NB 1	238	5,760,423.5	2,283,770.0	115.00
	237	5,760,437.5	2,283,950.0	109.70
	236	5,760,446.5	2,284,089.2	108.50
	235	5,760,449.0	2,284,274.2	107.30
	234	5,760,457.0	2,284,457.5	105.00
	233	5,760,468.0	2,284,638.2	103.60
	232	5,760,479.5	2,284,804.5	102.00
	231	5,760,499.0	2,284,998.0	101.10

	230	5,760,535.5	2,285,170.0	101.40
	229	5,760,586.0	2,285,341.0	102.20
	228	5,760,654.5	2,285,515.0	105.00
	227	5,760,737.0	2,285,673.0	106.80
	226	5,760,821.5	2,285,835.0	105.00
US 101 NB 2	250	5,760,948.5	2,286,078.5	107.30
	249	5,761,054.5	2,286,276.2	109.20
	248	5,761,206.5	2,286,565.8	111.50
	247	5,761,343.0	2,286,827.0	115.00
	246	5,761,481.0	2,287,086.5	117.00
	245	5,761,612.0	2,287,339.5	119.00
	244	5,761,771.5	2,287,639.0	120.70
	243	5,761,936.5	2,287,950.0	123.70
	242	5,762,096.5	2,288,259.0	125.00
	241	5,762,241.5	2,288,531.0	125.00
	240	5,762,375.5	2,288,785.8	128.50
	239	5,762,516.5	2,289,056.0	130.00
US 101 SB 1	263	5,760,312.5	2,283,773.8	109.70
	262	5,760,332.0	2,283,954.5	109.60
	261	5,760,339.0	2,284,096.0	108.50
	260	5,760,344.5	2,284,281.5	106.70
	259	5,760,355.5	2,284,464.8	105.10
	258	5,760,364.0	2,284,648.8	103.60
	257	5,760,375.5	2,284,812.5	103.50
	256	5,760,393.5	2,285,012.0	103.60
	255	5,760,431.5	2,285,191.0	104.10
	254	5,760,486.5	2,285,377.0	105.30
	253	5,760,565.0	2,285,560.5	106.70
	252	5,760,646.0	2,285,721.5	106.80
	251	5,760,769.5	2,285,957.0	106.70
US 101 SB 2	275	5,760,886.5	2,286,177.8	108.40
	274	5,760,964.0	2,286,324.8	109.20
	273	5,761,116.0	2,286,614.2	111.50
	272	5,761,252.0	2,286,875.5	115.00
	271	5,761,390.0	2,287,135.0	117.00

INPUT: TERRAIN LINES

	270	5,761,521.5	2,287,388.0	119.50
	269	5,761,681.0	2,287,687.5	120.70
	268	5,761,845.5	2,287,998.5	123.60
	267	5,762,005.5	2,288,307.5	125.00
	266	5,762,150.5	2,288,579.5	125.00
	265	5,762,284.5	2,288,834.2	128.50
	264	5,762,430.5	2,289,102.0	130.00

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2 September 2006
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 01
BARRIER DESIGN: INPUT HEIGHTS

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

ATMOSPHERICS: 68 deg F, 50% RH

Receiver												
Name	No.	#DUs	Existing LAeq1h	No Barrier					With Barrier			
				LAeq1h		Increase over existing		Type	Calculated	Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n Sub'l Inc	Impact	LAeq1h	Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
M-1	1	1	0.0	69.7	66	69.7	12	Snd Lvl	69.7	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction		
		Min	Avg	Max
		dB	dB	dB
All Selected	1	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

CALIBRATION M-2

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 02

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

Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Los Osos Valley WB	24.0	point51	51	5,762,472.0	2,285,071.2	117.20				Average	
		point50	50	5,762,344.5	2,285,142.2	113.70				Average	
		point49	49	5,762,223.5	2,285,174.5	111.90				Average	
		point48	48	5,762,092.0	2,285,186.8	111.10				Average	
		point47	47	5,761,960.5	2,285,198.8	110.10				Average	
		point46	46	5,761,816.5	2,285,211.0	109.40				Average	
		point45	45	5,761,684.5	2,285,224.8	108.80				Average	
		point44	44	5,761,549.5	2,285,241.5	108.40				Average	
		point43	43	5,761,433.0	2,285,282.5	108.60				Average	
		point42	42	5,761,339.0	2,285,333.2	109.30				Average	
		point41	41	5,761,250.0	2,285,395.8	110.80				Average	
		point40	40	5,761,169.0	2,285,462.0	114.60				Average	
		point39	39	5,761,095.5	2,285,544.0	120.20				Average	
		point38	38	5,761,030.5	2,285,654.8	120.30				Average	
		point37	37	5,760,982.5	2,285,770.2	126.10				Average	
		point36	36	5,760,947.5	2,285,882.2	127.30				Average	
		point35	35	5,760,909.0	2,285,992.0	129.80				Average	
		point34	34	5,760,871.5	2,286,100.2	129.60				Average	
		point33	33	5,760,822.5	2,286,238.8	127.40				Average	
		point32	32	5,760,787.5	2,286,348.5	119.80				Average	
		point31	31	5,760,743.0	2,286,483.2	112.10				Average	
		point30	30	5,760,723.5	2,286,597.5	109.20				Average	
		point29	29	5,760,676.5	2,286,732.5	108.30				Average	
		point28	28	5,760,626.0	2,286,871.2	108.10				Average	
		point27	27	5,760,582.5	2,286,991.5	110.20				Average	

		point26	26	5,760,540.5	2,287,095.0	109.40				Average	
		point25	25	5,760,487.5	2,287,212.0	111.80				Average	
		point24	24	5,760,435.5	2,287,324.0	112.70				Average	
		point23	23	5,760,379.5	2,287,430.5	112.10				Average	
		point22	22	5,760,320.0	2,287,538.2	113.40				Average	
		point21	21	5,760,255.0	2,287,649.0	115.30				Average	
		point20	20	5,760,181.5	2,287,766.0	114.90				Average	
		point19	19	5,760,110.5	2,287,876.8	115.40				Average	
		point18	18	5,760,050.5	2,287,970.8	116.90				Average	
		point17	17	5,759,980.5	2,288,071.8	117.60				Average	
		point16	16	5,759,916.5	2,288,173.0	117.20				Average	
		point15	15	5,759,849.0	2,288,271.8	117.20				Average	
		point14	14	5,759,785.5	2,288,371.8	117.20				Average	
		point13	13	5,759,728.5	2,288,456.0	117.20				Average	
		point12	12	5,759,671.0	2,288,544.0	117.20					
Los Osos Valley EB	24.0	point52	52	5,759,628.0	2,288,520.0	117.20				Average	
		point53	53	5,759,686.0	2,288,432.2	117.20				Average	
		point54	54	5,759,742.5	2,288,348.0	117.20				Average	
		point55	55	5,759,810.5	2,288,250.0	117.20				Average	
		point56	56	5,759,881.5	2,288,151.2	117.20				Average	
		point57	57	5,759,950.5	2,288,050.0	117.60				Average	
		point58	58	5,760,022.0	2,287,949.0	116.90				Average	
		point59	59	5,760,082.0	2,287,861.2	115.40				Average	
		point60	60	5,760,153.0	2,287,750.5	114.90				Average	
		point61	61	5,760,226.5	2,287,633.8	115.30				Average	
		point62	62	5,760,288.5	2,287,524.2	113.40				Average	
		point63	63	5,760,350.0	2,287,417.0	112.10				Average	
		point64	64	5,760,404.0	2,287,310.0	112.70				Average	
		point65	65	5,760,456.0	2,287,202.0	111.80				Average	
		point66	66	5,760,509.0	2,287,085.2	109.40				Average	
		point67	67	5,760,552.5	2,286,982.2	110.20				Average	
		point68	68	5,760,595.0	2,286,860.2	108.10				Average	
		point69	69	5,760,640.5	2,286,721.0	108.30				Average	
		point70	70	5,760,687.5	2,286,587.0	109.20				Average	
		point71	71	5,760,719.0	2,286,475.5	112.10				Average	
		point72	72	5,760,769.0	2,286,346.0	119.80				Average	
		point73	73	5,760,807.0	2,286,234.5	127.40				Average	
		point74	74	5,760,855.5	2,286,094.8	129.60				Average	
		point75	75	5,760,893.0	2,285,986.2	129.80				Average	

		point76	76	5,760,931.5	2,285,876.8	127.30				Average	
		point77	77	5,760,969.0	2,285,765.5	126.10				Average	
		point78	78	5,761,017.5	2,285,645.5	120.30				Average	
		point79	79	5,761,084.5	2,285,532.0	120.20				Average	
		point80	80	5,761,158.0	2,285,450.0	114.60				Average	
		point81	81	5,761,240.5	2,285,379.0	110.80				Average	
		point82	82	5,761,330.0	2,285,316.2	109.30				Average	
		point83	83	5,761,424.0	2,285,265.8	108.60				Average	
		point84	84	5,761,545.5	2,285,222.0	108.40				Average	
		point85	85	5,761,681.0	2,285,191.8	108.80				Average	
		point86	86	5,761,813.0	2,285,178.0	109.40				Average	
		point87	87	5,761,957.0	2,285,165.8	110.10				Average	
		point88	88	5,762,088.5	2,285,153.8	111.30				Average	
		point89	89	5,762,217.0	2,285,142.2	111.90				Average	
		point90	90	5,762,335.0	2,285,106.5	113.70				Average	
		point91	91	5,762,461.5	2,285,038.5	117.20					
Higuera NB	24.0	point147	147	5,761,753.0	2,283,727.0	118.90				Average	
		point118	118	5,761,806.5	2,283,815.8	118.90				Average	
		point117	117	5,761,858.5	2,283,905.8	118.90				Average	
		point116	116	5,761,903.5	2,283,981.5	118.90				Average	
		point115	115	5,761,949.5	2,284,062.8	118.90				Average	
		point114	114	5,761,999.0	2,284,148.8	118.90				Average	
		point113	113	5,762,054.0	2,284,240.8	118.90				Average	
		point112	112	5,762,103.0	2,284,323.2	118.90				Average	
		point111	111	5,762,154.5	2,284,413.0	118.90				Average	
		point110	110	5,762,202.5	2,284,492.5	119.10				Average	
		point109	109	5,762,257.5	2,284,584.5	119.40				Average	
		point108	108	5,762,307.0	2,284,663.8	118.80				Average	
		point107	107	5,762,362.5	2,284,755.8	118.30				Average	
		point106	106	5,762,415.5	2,284,844.0	118.90				Average	
		point105	105	5,762,460.0	2,284,923.5	117.90				Average	
		point104	104	5,762,514.5	2,285,015.5	117.70				Average	
		point103	103	5,762,558.0	2,285,095.8	117.80				Average	
		point102	102	5,762,604.0	2,285,176.5	117.80				Average	
		point101	101	5,762,651.0	2,285,258.8	117.50				Average	
		point100	100	5,762,701.5	2,285,337.8	117.00				Average	
		point99	99	5,762,762.0	2,285,431.5	117.70				Average	
		point98	98	5,762,806.0	2,285,508.0	117.20				Average	
		point97	97	5,762,851.0	2,285,596.5	117.30				Average	

		point96	96	5,762,903.5	2,285,695.0	118.10				Average	
		point95	95	5,762,965.0	2,285,810.2	117.70				Average	
		point94	94	5,763,029.5	2,285,932.2	117.80				Average	
		point93	93	5,763,084.0	2,286,038.2	117.80				Average	
		point92	92	5,763,139.0	2,286,119.5	117.80					
Higuera SB	24.0	point119	119	5,763,111.5	2,286,133.5	117.80				Average	
		point120	120	5,763,057.0	2,286,052.2	117.80				Average	
		point121	121	5,763,002.0	2,285,946.2	117.80				Average	
		point122	122	5,762,937.5	2,285,824.2	117.70				Average	
		point123	123	5,762,876.0	2,285,709.0	118.10				Average	
		point124	124	5,762,824.0	2,285,610.5	117.30				Average	
		point125	125	5,762,778.5	2,285,521.8	117.20				Average	
		point126	126	5,762,736.5	2,285,445.5	117.70				Average	
		point127	127	5,762,681.0	2,285,347.5	117.00				Average	
		point128	128	5,762,634.5	2,285,270.5	117.50				Average	
		point129	129	5,762,583.5	2,285,186.0	117.80				Average	
		point130	130	5,762,537.5	2,285,105.5	117.80				Average	
		point131	131	5,762,494.0	2,285,025.2	117.70				Average	
		point132	132	5,762,438.0	2,284,936.5	117.90				Average	
		point133	133	5,762,394.0	2,284,856.2	118.00				Average	
		point134	134	5,762,343.5	2,284,766.5	118.30				Average	
		point135	135	5,762,291.5	2,284,671.2	118.80				Average	
		point136	136	5,762,245.5	2,284,589.5	119.40				Average	
		point137	137	5,762,194.0	2,284,498.0	119.10				Average	
		point138	138	5,762,146.0	2,284,418.5	118.90				Average	
		point139	139	5,762,094.5	2,284,328.5	118.90				Average	
		point140	140	5,762,045.5	2,284,246.2	118.90				Average	
		point141	141	5,761,991.0	2,284,153.2	118.90				Average	
		point142	142	5,761,941.5	2,284,067.0	118.90				Average	
		point143	143	5,761,895.0	2,283,987.0	118.90				Average	
		point144	144	5,761,850.0	2,283,912.8	118.90				Average	
		point145	145	5,761,795.5	2,283,820.8	118.90				Average	
		point146	146	5,761,744.0	2,283,732.0	118.90					
US 101 NB 1	24.0	point238	238	5,760,404.5	2,283,771.2	115.00				Average	
		point159	159	5,760,418.5	2,283,950.0	109.70				Average	
		point158	158	5,760,430.0	2,284,090.5	108.50				Average	
		point157	157	5,760,435.5	2,284,276.0	107.30				Average	
		point156	156	5,760,447.0	2,284,457.2	105.00				Average	
		point155	155	5,760,455.0	2,284,641.2	103.60				Average	

		point154	154	5,760,463.5	2,284,804.5	102.00				Average	
		point153	153	5,760,484.0	2,285,000.2	101.10				Average	
		point152	152	5,760,519.0	2,285,172.5	101.40				Average	
		point151	151	5,760,570.5	2,285,349.0	102.20				Average	
		point150	150	5,760,639.0	2,285,520.5	105.00				Average	
		point149	149	5,760,720.0	2,285,681.8	106.80				Average	
		point148	148	5,760,805.0	2,285,843.5	105.00					
US 101 NB 2	24.0	point171	171	5,760,932.0	2,286,087.2	107.30				Average	
		point170	170	5,761,038.0	2,286,285.0	109.20				Average	
		point169	169	5,761,190.0	2,286,574.5	111.50				Average	
		point168	168	5,761,326.5	2,286,835.5	115.00				Average	
		point167	167	5,761,464.5	2,287,095.2	117.00				Average	
		point166	166	5,761,595.5	2,287,348.2	119.00				Average	
		point165	165	5,761,755.0	2,287,647.8	120.70				Average	
		point164	164	5,761,919.5	2,287,958.8	123.70				Average	
		point163	163	5,762,079.5	2,288,267.8	125.00				Average	
		point162	162	5,762,225.0	2,288,539.8	125.00				Average	
		point161	161	5,762,358.5	2,288,794.5	128.50				Average	
		point160	160	5,762,500.0	2,289,064.8	130.00					
US 101 SB 1	24.0	point173	173	5,760,788.0	2,285,947.2	106.70				Average	
		point174	174	5,760,664.5	2,285,712.0	106.80				Average	
		point175	175	5,760,583.5	2,285,550.8	106.70				Average	
		point176	176	5,760,505.0	2,285,367.5	105.30				Average	
		point177	177	5,760,449.0	2,285,185.8	104.10				Average	
		point178	178	5,760,412.5	2,285,010.0	103.60				Average	
		point179	179	5,760,394.5	2,284,810.5	103.50				Average	
		point180	180	5,760,386.5	2,284,647.5	103.60				Average	
		point181	181	5,760,378.0	2,284,463.2	105.10				Average	
		point182	182	5,760,364.5	2,284,280.8	106.70				Average	
		point183	183	5,760,358.5	2,284,095.2	108.50				Average	
		point184	184	5,760,347.5	2,283,952.2	109.60				Average	
		point237	237	5,760,335.5	2,283,772.5	109.70					
US 101 SB 2	24.0	point186	186	5,762,449.5	2,289,092.5	130.00				Average	
		point187	187	5,762,303.0	2,288,824.8	128.50				Average	
		point188	188	5,762,169.5	2,288,570.0	125.00				Average	
		point189	189	5,762,024.0	2,288,297.8	125.00				Average	
		point190	190	5,761,864.0	2,287,989.0	123.60				Average	
		point191	191	5,761,699.5	2,287,678.0	120.70				Average	
		point192	192	5,761,540.0	2,287,378.5	119.50				Average	

		point193	193	5,761,409.0	2,287,125.2	117.00				Average	
		point194	194	5,761,271.0	2,286,865.8	115.00				Average	
		point195	195	5,761,134.5	2,286,604.5	111.50				Average	
		point196	196	5,760,982.5	2,286,315.2	109.20				Average	
		point197	197	5,760,905.5	2,286,168.0	108.40					
US 101 On-Ramp	12.0	point211	211	5,761,017.5	2,285,577.0	122.40				Average	
		point210	210	5,760,968.5	2,285,523.0	122.10				Average	
		point209	209	5,760,914.0	2,285,466.2	118.00				Average	
		point208	208	5,760,862.5	2,285,419.5	114.60				Average	
		point207	207	5,760,802.0	2,285,393.8	113.30				Average	
		point206	206	5,760,744.5	2,285,404.2	107.90				Average	
		point205	205	5,760,707.5	2,285,431.5	104.70				Average	
		point204	204	5,760,685.0	2,285,478.2	104.50				Average	
		point203	203	5,760,685.0	2,285,529.8	103.40				Average	
		point202	202	5,760,701.5	2,285,587.2	103.40				Average	
		point201	201	5,760,727.5	2,285,642.2	102.50				Average	
		point200	200	5,760,758.5	2,285,705.0	104.50				Average	
		point199	199	5,760,785.0	2,285,760.2	104.80				Average	
		point198	198	5,760,813.5	2,285,816.2	105.30					
US 101 NB Off-Ramp	12.0	point213	213	5,760,460.0	2,284,353.0	106.00				Average	
		point214	214	5,760,472.0	2,284,457.0	105.00				Average	
		point215	215	5,760,481.5	2,284,543.2	104.00				Average	
		point216	216	5,760,496.5	2,284,648.0	102.50				Average	
		point217	217	5,760,508.5	2,284,754.2	103.00				Average	
		point221	221	5,760,524.0	2,284,853.2	104.00				Average	
		point222	222	5,760,555.0	2,284,954.0	105.30				Average	
		point223	223	5,760,596.5	2,285,048.5	106.40				Average	
		point224	224	5,760,651.5	2,285,144.5	107.50				Average	
		point225	225	5,760,716.5	2,285,229.0	108.50				Average	
		point226	226	5,760,779.0	2,285,297.8	110.30				Average	
		point227	227	5,760,846.0	2,285,364.2	114.30				Average	
		point228	228	5,760,910.5	2,285,433.8	117.90				Average	
		point229	229	5,760,975.5	2,285,513.5	121.60				Average	
		point230	230	5,761,027.0	2,285,565.0	120.20					
US 101 SB Off-Ramp	12.0	point236	236	5,760,801.5	2,286,530.5	105.00				Average	
		point235	235	5,760,910.0	2,286,574.0	107.00				Average	
		point234	234	5,761,030.0	2,286,632.5	110.00				Average	
		point233	233	5,761,124.0	2,286,701.8	111.00				Average	
		point232	232	5,761,216.5	2,286,829.5	113.80					

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 02

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
Los Osos Valley WB	point51	51	788	40	8	40	4	35	0	0	0	0
	point50	50	788	40	8	40	4	35	0	0	0	0
	point49	49	788	40	8	40	4	35	0	0	0	0
	point48	48	788	40	8	40	4	35	0	0	0	0
	point47	47	788	40	8	40	4	35	0	0	0	0
	point46	46	788	40	8	40	4	35	0	0	0	0
	point45	45	788	40	8	40	4	35	0	0	0	0
	point44	44	788	40	8	40	4	35	0	0	0	0
	point43	43	788	40	8	40	4	35	0	0	0	0
	point42	42	788	40	8	40	4	35	0	0	0	0
	point41	41	788	40	8	40	4	35	0	0	0	0
	point40	40	788	40	8	40	4	35	0	0	0	0
	point39	39	788	40	8	40	4	35	0	0	0	0
	point38	38	788	40	8	40	4	35	0	0	0	0
	point37	37	788	40	8	40	4	35	0	0	0	0
	point36	36	788	40	8	40	4	35	0	0	0	0
	point35	35	788	40	8	40	4	35	0	0	0	0
	point34	34	788	40	8	40	4	35	0	0	0	0
	point33	33	788	40	8	40	4	35	0	0	0	0
	point32	32	788	40	8	40	4	35	0	0	0	0
	point31	31	788	40	8	40	4	35	0	0	0	0
	point30	30	788	40	8	40	4	35	0	0	0	0
	point29	29	788	40	8	40	4	35	0	0	0	0

	point28	28	788	40	8	40	4	35	0	0	0	0
	point27	27	788	40	8	40	4	35	0	0	0	0
	point26	26	788	40	8	40	4	35	0	0	0	0
	point25	25	788	40	8	40	4	35	0	0	0	0
	point24	24	788	40	8	40	4	35	0	0	0	0
	point23	23	788	40	8	40	4	35	0	0	0	0
	point22	22	788	40	8	40	4	35	0	0	0	0
	point21	21	788	40	8	40	4	35	0	0	0	0
	point20	20	788	40	8	40	4	35	0	0	0	0
	point19	19	788	40	8	40	4	35	0	0	0	0
	point18	18	788	40	8	40	4	35	0	0	0	0
	point17	17	788	40	8	40	4	35	0	0	0	0
	point16	16	788	40	8	40	4	35	0	0	0	0
	point15	15	788	40	8	40	4	35	0	0	0	0
	point14	14	788	40	8	40	4	35	0	0	0	0
	point13	13	788	40	8	40	4	35	0	0	0	0
	point12	12										
Los Osos Valley EB	point52	52	812	40	52	40	8	35	0	0	0	0
	point53	53	812	40	52	40	8	35	0	0	0	0
	point54	54	812	40	52	40	8	35	0	0	0	0
	point55	55	812	40	52	40	8	35	0	0	0	0
	point56	56	812	40	52	40	8	35	0	0	0	0
	point57	57	812	40	52	40	8	35	0	0	0	0
	point58	58	812	40	52	40	8	35	0	0	0	0
	point59	59	812	40	52	40	8	35	0	0	0	0
	point60	60	812	40	52	40	8	35	0	0	0	0
	point61	61	812	40	52	40	8	35	0	0	0	0
	point62	62	812	40	52	40	8	35	0	0	0	0
	point63	63	812	40	52	40	8	35	0	0	0	0
	point64	64	812	40	52	40	8	35	0	0	0	0
	point65	65	812	40	52	40	8	35	0	0	0	0
	point66	66	812	40	52	40	8	35	0	0	0	0
	point67	67	812	40	52	40	8	35	0	0	0	0
	point68	68	812	40	52	40	8	35	0	0	0	0
	point69	69	812	40	52	40	8	35	0	0	0	0

	point70	70	812	40	52	40	8	35	0	0	0	0
	point71	71	812	40	52	40	8	35	0	0	0	0
	point72	72	812	40	52	40	8	35	0	0	0	0
	point73	73	812	40	52	40	8	35	0	0	0	0
	point74	74	812	40	52	40	8	35	0	0	0	0
	point75	75	812	40	52	40	8	35	0	0	0	0
	point76	76	812	40	52	40	8	35	0	0	0	0
	point77	77	812	40	52	40	8	35	0	0	0	0
	point78	78	812	40	52	40	8	35	0	0	0	0
	point79	79	812	40	52	40	8	35	0	0	0	0
	point80	80	812	40	52	40	8	35	0	0	0	0
	point81	81	812	40	52	40	8	35	0	0	0	0
	point82	82	812	40	52	40	8	35	0	0	0	0
	point83	83	812	40	52	40	8	35	0	0	0	0
	point84	84	812	40	52	40	8	35	0	0	0	0
	point85	85	812	40	52	40	8	35	0	0	0	0
	point86	86	812	40	52	40	8	35	0	0	0	0
	point87	87	812	40	52	40	8	35	0	0	0	0
	point88	88	812	40	52	40	8	35	0	0	0	0
	point89	89	812	40	52	40	8	35	0	0	0	0
	point90	90	812	40	52	40	8	35	0	0	0	0
	point91	91										
Higuera NB	point147	147	244	40	12	40	8	35	0	0	0	0
	point118	118	244	40	12	40	8	35	0	0	0	0
	point117	117	244	40	12	40	8	35	0	0	0	0
	point116	116	244	40	12	40	8	35	0	0	0	0
	point115	115	244	40	12	40	8	35	0	0	0	0
	point114	114	244	40	12	40	8	35	0	0	0	0
	point113	113	244	40	12	40	8	35	0	0	0	0
	point112	112	244	40	12	40	8	35	0	0	0	0
	point111	111	244	40	12	40	8	35	0	0	0	0
	point110	110	244	40	12	40	8	35	0	0	0	0
	point109	109	244	40	12	40	8	35	0	0	0	0
	point108	108	244	40	12	40	8	35	0	0	0	0
	point107	107	244	40	12	40	8	35	0	0	0	0

	point106	106	244	40	12	40	8	35	0	0	0	0
	point105	105	244	40	12	40	8	35	0	0	0	0
	point104	104	244	40	12	40	8	35	0	0	0	0
	point103	103	244	40	12	40	8	35	0	0	0	0
	point102	102	244	40	12	40	8	35	0	0	0	0
	point101	101	244	40	12	40	8	35	0	0	0	0
	point100	100	244	40	12	40	8	35	0	0	0	0
	point99	99	244	40	12	40	8	35	0	0	0	0
	point98	98	244	40	12	40	8	35	0	0	0	0
	point97	97	244	40	12	40	8	35	0	0	0	0
	point96	96	244	40	12	40	8	35	0	0	0	0
	point95	95	244	40	12	40	8	35	0	0	0	0
	point94	94	244	40	12	40	8	35	0	0	0	0
	point93	93	244	40	12	40	8	35	0	0	0	0
	point92	92										
Higuera SB	point119	119	244	40	12	40	8	35	0	0	0	0
	point120	120	244	40	12	40	8	35	0	0	0	0
	point121	121	244	40	12	40	8	35	0	0	0	0
	point122	122	244	40	12	40	8	35	0	0	0	0
	point123	123	244	40	12	40	8	35	0	0	0	0
	point124	124	244	40	12	40	8	35	0	0	0	0
	point125	125	244	40	12	40	8	35	0	0	0	0
	point126	126	244	40	12	40	8	35	0	0	0	0
	point127	127	244	40	12	40	8	35	0	0	0	0
	point128	128	244	40	12	40	8	35	0	0	0	0
	point129	129	244	40	12	40	8	35	0	0	0	0
	point130	130	244	40	12	40	8	35	0	0	0	0
	point131	131	244	40	12	40	8	35	0	0	0	0
	point132	132	244	40	12	40	8	35	0	0	0	0
	point133	133	244	40	12	40	8	35	0	0	0	0
	point134	134	244	40	12	40	8	35	0	0	0	0
	point135	135	244	40	12	40	8	35	0	0	0	0
	point136	136	244	40	12	40	8	35	0	0	0	0
	point137	137	244	40	12	40	8	35	0	0	0	0
	point138	138	244	40	12	40	8	35	0	0	0	0

	point139	139	244	40	12	40	8	35	0	0	0	0
	point140	140	244	40	12	40	8	35	0	0	0	0
	point141	141	244	40	12	40	8	35	0	0	0	0
	point142	142	244	40	12	40	8	35	0	0	0	0
	point143	143	244	40	12	40	8	35	0	0	0	0
	point144	144	244	40	12	40	8	35	0	0	0	0
	point145	145	244	40	12	40	8	35	0	0	0	0
	point146	146										
US 101 NB 1	point238	238	1284	65	40	65	80	60	0	0	0	0
	point159	159	1284	65	40	65	80	60	0	0	0	0
	point158	158	1284	65	40	65	80	60	0	0	0	0
	point157	157	1284	65	40	65	80	60	0	0	0	0
	point156	156	1284	65	40	65	80	60	0	0	0	0
	point155	155	1284	65	40	65	80	60	0	0	0	0
	point154	154	1284	65	40	65	80	60	0	0	0	0
	point153	153	1284	65	40	65	80	60	0	0	0	0
	point152	152	1284	65	40	65	80	60	0	0	0	0
	point151	151	1284	65	40	65	80	60	0	0	0	0
	point150	150	1284	65	40	65	80	60	0	0	0	0
	point149	149	1284	65	40	65	80	60	0	0	0	0
	point148	148										
US 101 NB 2	point171	171	1284	65	40	65	80	60	0	0	0	0
	point170	170	1284	65	40	65	80	60	0	0	0	0
	point169	169	1284	65	40	65	80	60	0	0	0	0
	point168	168	1284	65	40	65	80	60	0	0	0	0
	point167	167	1284	65	40	65	80	60	0	0	0	0
	point166	166	1284	65	40	65	80	60	0	0	0	0
	point165	165	1284	65	40	65	80	60	0	0	0	0
	point164	164	1284	65	40	65	80	60	0	0	0	0
	point163	163	1284	65	40	65	80	60	0	0	0	0
	point162	162	1284	65	40	65	80	60	0	0	0	0
	point161	161	1284	65	40	65	80	60	0	0	0	0
	point160	160										
US 101 SB 1	point173	173	1348	65	88	65	96	60	0	0	0	0
	point174	174	1348	65	88	65	96	60	0	0	0	0

	point175	175	1348	65	88	65	96	60	0	0	0	0
	point176	176	1348	65	88	65	96	60	0	0	0	0
	point177	177	1348	65	88	65	96	60	0	0	0	0
	point178	178	1348	65	88	65	96	60	0	0	0	0
	point179	179	1348	65	88	65	96	60	0	0	0	0
	point180	180	1348	65	88	65	96	60	0	0	0	0
	point181	181	1348	65	88	65	96	60	0	0	0	0
	point182	182	1348	65	88	65	96	60	0	0	0	0
	point183	183	1348	65	88	65	96	60	0	0	0	0
	point184	184	1348	65	88	65	96	60	0	0	0	0
	point237	237										
US 101 SB 2	point186	186	1348	65	88	65	96	60	0	0	0	0
	point187	187	1348	65	88	65	96	60	0	0	0	0
	point188	188	1348	65	88	65	96	60	0	0	0	0
	point189	189	1348	65	88	65	96	60	0	0	0	0
	point190	190	1348	65	88	65	96	60	0	0	0	0
	point191	191	1348	65	88	65	96	60	0	0	0	0
	point192	192	1348	65	88	65	96	60	0	0	0	0
	point193	193	1348	65	88	65	96	60	0	0	0	0
	point194	194	1348	65	88	65	96	60	0	0	0	0
	point195	195	1348	65	88	65	96	60	0	0	0	0
	point196	196	1348	65	88	65	96	60	0	0	0	0
	point197	197										
US 101 On-Ramp	point211	211	0	0	0	0	0	0	0	0	0	0
	point210	210	0	0	0	0	0	0	0	0	0	0
	point209	209	0	0	0	0	0	0	0	0	0	0
	point208	208	0	0	0	0	0	0	0	0	0	0
	point207	207	0	0	0	0	0	0	0	0	0	0
	point206	206	0	0	0	0	0	0	0	0	0	0
	point205	205	0	0	0	0	0	0	0	0	0	0
	point204	204	0	0	0	0	0	0	0	0	0	0
	point203	203	0	0	0	0	0	0	0	0	0	0
	point202	202	0	0	0	0	0	0	0	0	0	0
	point201	201	0	0	0	0	0	0	0	0	0	0
	point200	200	0	0	0	0	0	0	0	0	0	0

	point199	199	0	0	0	0	0	0	0	0	0	0
	point198	198										
US 101 NB Off-Ramp	point213	213	408	45	4	45	4	40	0	0	0	0
	point214	214	408	45	4	45	4	40	0	0	0	0
	point215	215	408	45	4	45	4	40	0	0	0	0
	point216	216	408	45	4	45	4	40	0	0	0	0
	point217	217	408	45	4	45	4	40	0	0	0	0
	point221	221	408	45	4	45	4	40	0	0	0	0
	point222	222	408	45	4	45	4	40	0	0	0	0
	point223	223	408	45	4	45	4	40	0	0	0	0
	point224	224	408	45	4	45	4	40	0	0	0	0
	point225	225	408	45	4	45	4	40	0	0	0	0
	point226	226	408	45	4	45	4	40	0	0	0	0
	point227	227	408	45	4	45	4	40	0	0	0	0
	point228	228	408	45	4	45	4	40	0	0	0	0
	point229	229	408	45	4	45	4	40	0	0	0	0
	point230	230										
US 101 SB Off-Ramp	point236	236	0	0	0	0	0	0	0	0	0	0
	point235	235	0	0	0	0	0	0	0	0	0	0
	point234	234	0	0	0	0	0	0	0	0	0	0
	point233	233	0	0	0	0	0	0	0	0	0	0
	point232	232										

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 02

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
M-2	2	1	5,760,669.0	2,286,971.2	108.90	5.00	0.00	66	12.0	8.0	Y

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: TERRAIN LINES
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 02

Terrain Line Name	Points No.	Coordinates (ground) X ft	Y ft	Z ft
Los Oso Valley WB	40	5,762,477.0	2,285,082.2	117.20
	39	5,762,347.5	2,285,152.0	113.70
	38	5,762,225.0	2,285,186.0	111.90
	37	5,762,093.0	2,285,199.2	111.10
	36	5,761,961.5	2,285,212.2	110.10
	35	5,761,817.5	2,285,224.0	109.40
	34	5,761,685.0	2,285,238.0	108.80
	33	5,761,553.5	2,285,256.2	108.40
	32	5,761,436.5	2,285,289.8	108.60
	31	5,761,343.0	2,285,340.2	109.30
	30	5,761,255.5	2,285,404.0	110.80
	29	5,761,176.0	2,285,469.5	114.60
	28	5,761,108.0	2,285,552.5	120.20
	27	5,761,043.5	2,285,660.2	120.30
	26	5,760,995.5	2,285,775.8	126.10
	25	5,760,956.0	2,285,887.2	127.30
	24	5,760,917.5	2,285,997.0	129.80
	23	5,760,881.5	2,286,104.2	129.60
	22	5,760,835.5	2,286,242.2	127.40
	21	5,760,800.5	2,286,351.8	119.80
	20	5,760,754.5	2,286,488.8	112.10
	19	5,760,735.5	2,286,603.0	109.20
	18	5,760,700.0	2,286,744.0	108.30
	17	5,760,649.5	2,286,882.5	108.10

	16	5,760,601.5	2,287,001.8	110.20
	15	5,760,559.0	2,287,105.2	109.40
	14	5,760,506.0	2,287,222.2	111.80
	13	5,760,454.5	2,287,334.2	112.70
	12	5,760,398.0	2,287,440.5	112.10
	11	5,760,338.5	2,287,548.5	113.40
	10	5,760,273.5	2,287,659.2	115.30
	9	5,760,200.0	2,287,776.2	114.90
	8	5,760,129.0	2,287,887.0	115.40
	7	5,760,069.0	2,287,981.0	116.90
	6	5,760,000.5	2,288,084.8	117.60
	5	5,759,937.0	2,288,186.0	117.20
	4	5,759,869.5	2,288,284.5	117.20
	3	5,759,804.0	2,288,382.0	117.20
	2	5,759,747.5	2,288,466.2	117.20
	1	5,759,689.5	2,288,554.2	117.20
Los Oso Valley EB	80	5,762,455.0	2,285,023.5	117.20
	79	5,762,332.0	2,285,097.2	113.70
	78	5,762,216.5	2,285,132.0	111.90
	77	5,762,088.0	2,285,145.0	111.30
	76	5,761,956.5	2,285,155.5	110.10
	75	5,761,812.5	2,285,167.8	109.40
	74	5,761,679.5	2,285,178.8	108.80
	73	5,761,543.0	2,285,207.0	108.40
	72	5,761,422.5	2,285,260.0	108.60
	71	5,761,326.5	2,285,312.0	109.30
	70	5,761,236.5	2,285,373.0	110.80
	69	5,761,152.0	2,285,444.0	114.60
	68	5,761,078.0	2,285,523.0	120.20
	67	5,761,004.0	2,285,639.5	120.30
	66	5,760,959.5	2,285,762.5	126.10
	65	5,760,921.5	2,285,874.0	127.30
	64	5,760,883.0	2,285,983.5	129.80
	63	5,760,843.5	2,286,093.0	129.60
	62	5,760,795.5	2,286,231.8	127.40

	61	5,760,757.5	2,286,343.0	119.80
	60	5,760,704.5	2,286,471.8	112.10
	59	5,760,673.0	2,286,583.2	109.20
	58	5,760,626.0	2,286,717.0	108.30
	57	5,760,583.0	2,286,857.0	108.10
	56	5,760,541.0	2,286,979.0	110.20
	55	5,760,497.0	2,287,082.0	109.40
	54	5,760,441.0	2,287,194.0	111.80
	53	5,760,389.0	2,287,301.8	112.70
	52	5,760,335.0	2,287,409.0	112.10
	51	5,760,273.5	2,287,516.2	113.40
	50	5,760,209.0	2,287,621.2	115.30
	49	5,760,135.5	2,287,738.0	114.90
	48	5,760,064.5	2,287,848.8	115.40
	47	5,760,005.0	2,287,936.5	116.90
	46	5,759,933.0	2,288,037.5	117.60
	45	5,759,864.0	2,288,138.8	117.20
	44	5,759,793.0	2,288,237.5	117.20
	43	5,759,725.0	2,288,335.5	117.20
	42	5,759,668.5	2,288,419.8	117.20
	41	5,759,610.5	2,288,507.5	117.20
Higuera NB	110	5,761,764.5	2,283,719.0	118.90
	109	5,761,817.5	2,283,807.8	118.90
	108	5,761,870.0	2,283,897.8	118.90
	107	5,761,914.5	2,283,973.5	118.90
	106	5,761,960.5	2,284,054.8	118.90
	105	5,762,010.0	2,284,141.0	118.90
	104	5,762,065.0	2,284,233.0	118.90
	103	5,762,114.0	2,284,315.2	118.90
	102	5,762,165.5	2,284,405.0	118.90
	101	5,762,213.5	2,284,484.5	119.10
	100	5,762,268.5	2,284,576.5	119.40
	99	5,762,318.0	2,284,655.8	118.80
	98	5,762,374.0	2,284,747.8	118.30
	97	5,762,426.5	2,284,836.0	118.90

	96	5,762,471.5	2,284,915.5	117.90
	95	5,762,525.5	2,285,007.5	117.70
	94	5,762,569.0	2,285,087.8	117.80
	93	5,762,615.0	2,285,168.5	117.80
	92	5,762,662.5	2,285,250.8	117.50
	91	5,762,713.0	2,285,330.0	117.00
	90	5,762,773.0	2,285,423.5	117.70
	89	5,762,817.0	2,285,500.0	117.20
	88	5,762,862.5	2,285,588.5	117.30
	87	5,762,914.5	2,285,687.0	118.10
	86	5,762,976.0	2,285,802.2	117.70
	85	5,763,040.5	2,285,924.5	117.80
	84	5,763,095.5	2,286,030.2	117.80
	83	5,763,150.5	2,286,111.5	117.80
Higuera SB	139	5,761,733.5	2,283,737.5	118.90
	138	5,761,785.5	2,283,826.2	118.90
	137	5,761,839.5	2,283,918.2	118.90
	136	5,761,885.0	2,283,992.5	118.90
	135	5,761,931.0	2,284,072.8	118.90
	134	5,761,980.5	2,284,158.8	118.90
	133	5,762,035.0	2,284,251.8	118.90
	132	5,762,084.0	2,284,334.0	118.90
	131	5,762,135.5	2,284,424.0	118.90
	130	5,762,183.5	2,284,503.5	119.10
	129	5,762,235.0	2,284,595.0	119.40
	128	5,762,281.5	2,284,677.0	118.80
	127	5,762,333.0	2,284,772.0	118.30
	126	5,762,383.5	2,284,862.0	118.00
	125	5,762,427.5	2,284,942.0	117.90
	124	5,762,483.5	2,285,031.0	117.70
	123	5,762,527.0	2,285,111.0	117.80
	122	5,762,573.0	2,285,191.8	117.80
	121	5,762,624.0	2,285,276.2	117.50
	120	5,762,671.0	2,285,353.0	117.00
	119	5,762,726.5	2,285,451.0	117.70

	118	5,762,768.0	2,285,527.5	117.20
	117	5,762,813.5	2,285,616.2	117.30
	116	5,762,865.5	2,285,714.8	118.10
	115	5,762,927.0	2,285,829.8	117.70
	114	5,762,991.5	2,285,952.0	117.80
	113	5,763,046.5	2,286,058.0	117.80
	112	5,763,101.0	2,286,139.2	117.80
US 101 NB Off-Ramp	220	5,761,039.0	2,285,548.0	120.20
	219	5,760,990.0	2,285,500.5	121.60
	218	5,760,919.5	2,285,427.0	117.90
	217	5,760,854.5	2,285,357.2	114.30
	216	5,760,787.5	2,285,291.0	110.30
	215	5,760,725.0	2,285,222.2	108.50
	214	5,760,660.5	2,285,137.5	107.50
	213	5,760,605.5	2,285,041.5	106.40
	212	5,760,563.5	2,284,947.2	105.30
	211	5,760,533.0	2,284,846.5	104.00
	210	5,760,517.5	2,284,747.5	103.00
	209	5,760,505.5	2,284,641.2	102.50
	208	5,760,490.0	2,284,536.5	104.00
	207	5,760,480.5	2,284,450.2	105.00
	206	5,760,468.5	2,284,346.2	106.00
US 101 SB Off-Ramp	225	5,760,796.0	2,286,543.5	105.00
	224	5,760,904.5	2,286,587.2	107.00
	223	5,761,024.5	2,286,645.8	110.00
	222	5,761,120.0	2,286,707.2	111.00
	221	5,761,207.0	2,286,834.5	113.80
US 101 NB 1	238	5,760,423.5	2,283,770.0	115.00
	237	5,760,437.5	2,283,950.0	109.70
	236	5,760,446.5	2,284,089.2	108.50
	235	5,760,449.0	2,284,274.2	107.30
	234	5,760,457.0	2,284,457.5	105.00
	233	5,760,468.0	2,284,638.2	103.60
	232	5,760,479.5	2,284,804.5	102.00
	231	5,760,499.0	2,284,998.0	101.10

	230	5,760,535.5	2,285,170.0	101.40
	229	5,760,586.0	2,285,341.0	102.20
	228	5,760,654.5	2,285,515.0	105.00
	227	5,760,737.0	2,285,673.0	106.80
	226	5,760,821.5	2,285,835.0	105.00
US 101 NB 2	250	5,760,948.5	2,286,078.5	107.30
	249	5,761,054.5	2,286,276.2	109.20
	248	5,761,206.5	2,286,565.8	111.50
	247	5,761,343.0	2,286,827.0	115.00
	246	5,761,481.0	2,287,086.5	117.00
	245	5,761,612.0	2,287,339.5	119.00
	244	5,761,771.5	2,287,639.0	120.70
	243	5,761,936.5	2,287,950.0	123.70
	242	5,762,096.5	2,288,259.0	125.00
	241	5,762,241.5	2,288,531.0	125.00
	240	5,762,375.5	2,288,785.8	128.50
	239	5,762,516.5	2,289,056.0	130.00
US 101 SB 1	263	5,760,312.5	2,283,773.8	109.70
	262	5,760,332.0	2,283,954.5	109.60
	261	5,760,339.0	2,284,096.0	108.50
	260	5,760,344.5	2,284,281.5	106.70
	259	5,760,355.5	2,284,464.8	105.10
	258	5,760,364.0	2,284,648.8	103.60
	257	5,760,375.5	2,284,812.5	103.50
	256	5,760,393.5	2,285,012.0	103.60
	255	5,760,431.5	2,285,191.0	104.10
	254	5,760,486.5	2,285,377.0	105.30
	253	5,760,565.0	2,285,560.5	106.70
	252	5,760,646.0	2,285,721.5	106.80
	251	5,760,769.5	2,285,957.0	106.70
US 101 SB 2	275	5,760,886.5	2,286,177.8	108.40
	274	5,760,964.0	2,286,324.8	109.20
	273	5,761,116.0	2,286,614.2	111.50
	272	5,761,252.0	2,286,875.5	115.00
	271	5,761,390.0	2,287,135.0	117.00

INPUT: TERRAIN LINES

	270	5,761,521.5	2,287,388.0	119.50
	269	5,761,681.0	2,287,687.5	120.70
	268	5,761,845.5	2,287,998.5	123.60
	267	5,762,005.5	2,288,307.5	125.00
	266	5,762,150.5	2,288,579.5	125.00
	265	5,762,284.5	2,288,834.2	128.50
	264	5,762,430.5	2,289,102.0	130.00

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 02
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					With Barrier			
				LAeq1h		Increase over existing		Type	Calculated	Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n Sub'l Inc	Impact	LAeq1h	Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
M-2	2	1	0.0	65.8	66	65.8	12	----	65.8	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction		
		Min	Avg	Max
		dB	dB	dB
All Selected	1	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

CALIBRATION M-3

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 03

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

Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Los Osos Valley WB	12.0	point51	51	5,762,472.0	2,285,071.2	117.20				Average	
		point50	50	5,762,344.5	2,285,142.2	113.70				Average	
		point49	49	5,762,223.5	2,285,174.5	111.90				Average	
		point48	48	5,762,092.0	2,285,186.8	111.10				Average	
		point47	47	5,761,960.5	2,285,198.8	110.10				Average	
		point46	46	5,761,816.5	2,285,211.0	109.40				Average	
		point45	45	5,761,684.5	2,285,224.8	108.80				Average	
		point44	44	5,761,549.5	2,285,241.5	108.40				Average	
		point43	43	5,761,433.0	2,285,282.5	108.60				Average	
		point42	42	5,761,339.0	2,285,333.2	109.30				Average	
		point41	41	5,761,250.0	2,285,395.8	110.80				Average	
		point40	40	5,761,169.0	2,285,462.0	114.60				Average	
		point39	39	5,761,095.5	2,285,544.0	120.20				Average	
		point38	38	5,761,030.5	2,285,654.8	120.30				Average	
		point37	37	5,760,982.5	2,285,770.2	126.10				Average	
		point36	36	5,760,947.5	2,285,882.2	127.30				Average	
		point35	35	5,760,909.0	2,285,992.0	129.80				Average	
		point34	34	5,760,871.5	2,286,100.2	129.60				Average	
		point33	33	5,760,822.5	2,286,238.8	127.40				Average	
		point32	32	5,760,787.5	2,286,348.5	119.80				Average	
		point31	31	5,760,743.0	2,286,483.2	112.10				Average	
		point30	30	5,760,723.5	2,286,597.5	109.20				Average	
		point29	29	5,760,676.5	2,286,732.5	108.30				Average	
		point28	28	5,760,626.0	2,286,871.2	108.10				Average	
		point27	27	5,760,582.5	2,286,991.5	110.20				Average	

		point26	26	5,760,540.5	2,287,095.0	109.40				Average	
		point25	25	5,760,487.5	2,287,212.0	111.80				Average	
		point24	24	5,760,435.5	2,287,324.0	112.70				Average	
		point23	23	5,760,379.5	2,287,430.5	112.10				Average	
		point22	22	5,760,320.0	2,287,538.2	113.40				Average	
		point21	21	5,760,255.0	2,287,649.0	115.30				Average	
		point20	20	5,760,181.5	2,287,766.0	114.90				Average	
		point19	19	5,760,110.5	2,287,876.8	115.40				Average	
		point18	18	5,760,050.5	2,287,970.8	116.90				Average	
		point17	17	5,759,980.5	2,288,071.8	117.60				Average	
		point16	16	5,759,916.5	2,288,173.0	117.20				Average	
		point15	15	5,759,849.0	2,288,271.8	117.20				Average	
		point14	14	5,759,785.5	2,288,371.8	117.20				Average	
		point13	13	5,759,728.5	2,288,456.0	117.20				Average	
		point12	12	5,759,671.0	2,288,544.0	117.20					
Los Osos Valley EB	12.0	point52	52	5,759,628.0	2,288,520.0	117.20				Average	
		point53	53	5,759,686.0	2,288,432.2	117.20				Average	
		point54	54	5,759,742.5	2,288,348.0	117.20				Average	
		point55	55	5,759,810.5	2,288,250.0	117.20				Average	
		point56	56	5,759,881.5	2,288,151.2	117.20				Average	
		point57	57	5,759,950.5	2,288,050.0	117.60				Average	
		point58	58	5,760,022.0	2,287,949.0	116.90				Average	
		point59	59	5,760,082.0	2,287,861.2	115.40				Average	
		point60	60	5,760,153.0	2,287,750.5	114.90				Average	
		point61	61	5,760,226.5	2,287,633.8	115.30				Average	
		point62	62	5,760,288.5	2,287,524.2	113.40				Average	
		point63	63	5,760,350.0	2,287,417.0	112.10				Average	
		point64	64	5,760,404.0	2,287,310.0	112.70				Average	
		point65	65	5,760,456.0	2,287,202.0	111.80				Average	
		point66	66	5,760,509.0	2,287,085.2	109.40				Average	
		point67	67	5,760,552.5	2,286,982.2	110.20				Average	
		point68	68	5,760,595.0	2,286,860.2	108.10				Average	
		point69	69	5,760,640.5	2,286,721.0	108.30				Average	
		point70	70	5,760,687.5	2,286,587.0	109.20				Average	
		point71	71	5,760,719.0	2,286,475.5	112.10				Average	
		point72	72	5,760,769.0	2,286,346.0	119.80				Average	
		point73	73	5,760,807.0	2,286,234.5	127.40				Average	
		point74	74	5,760,855.5	2,286,094.8	129.60				Average	
		point75	75	5,760,893.0	2,285,986.2	129.80				Average	

		point76	76	5,760,931.5	2,285,876.8	127.30				Average	
		point77	77	5,760,969.0	2,285,765.5	126.10				Average	
		point78	78	5,761,017.5	2,285,645.5	120.30				Average	
		point79	79	5,761,084.5	2,285,532.0	120.20				Average	
		point80	80	5,761,158.0	2,285,450.0	114.60				Average	
		point81	81	5,761,240.5	2,285,379.0	110.80				Average	
		point82	82	5,761,330.0	2,285,316.2	109.30				Average	
		point83	83	5,761,424.0	2,285,265.8	108.60				Average	
		point84	84	5,761,545.5	2,285,222.0	108.40				Average	
		point85	85	5,761,681.0	2,285,191.8	108.80				Average	
		point86	86	5,761,813.0	2,285,178.0	109.40				Average	
		point87	87	5,761,957.0	2,285,165.8	110.10				Average	
		point88	88	5,762,088.5	2,285,153.8	111.30				Average	
		point89	89	5,762,217.0	2,285,142.2	111.90				Average	
		point90	90	5,762,335.0	2,285,106.5	113.70				Average	
		point91	91	5,762,461.5	2,285,038.5	117.20					
Higuera NB	24.0	point147	147	5,761,753.0	2,283,727.0	118.90				Average	
		point118	118	5,761,806.5	2,283,815.8	118.90				Average	
		point117	117	5,761,858.5	2,283,905.8	118.90				Average	
		point116	116	5,761,903.5	2,283,981.5	118.90				Average	
		point115	115	5,761,949.5	2,284,062.8	118.90				Average	
		point114	114	5,761,999.0	2,284,148.8	118.90				Average	
		point113	113	5,762,054.0	2,284,240.8	118.90				Average	
		point112	112	5,762,103.0	2,284,323.2	118.90				Average	
		point111	111	5,762,154.5	2,284,413.0	118.90				Average	
		point110	110	5,762,202.5	2,284,492.5	119.10				Average	
		point109	109	5,762,257.5	2,284,584.5	119.40				Average	
		point108	108	5,762,307.0	2,284,663.8	118.80				Average	
		point107	107	5,762,362.5	2,284,755.8	118.30				Average	
		point106	106	5,762,415.5	2,284,844.0	118.90				Average	
		point105	105	5,762,460.0	2,284,923.5	117.90				Average	
		point104	104	5,762,514.5	2,285,015.5	117.70				Average	
		point103	103	5,762,558.0	2,285,095.8	117.80				Average	
		point102	102	5,762,604.0	2,285,176.5	117.80				Average	
		point101	101	5,762,651.0	2,285,258.8	117.50				Average	
		point100	100	5,762,701.5	2,285,337.8	117.00				Average	
		point99	99	5,762,762.0	2,285,431.5	117.70				Average	
		point98	98	5,762,806.0	2,285,508.0	117.20				Average	
		point97	97	5,762,851.0	2,285,596.5	117.30				Average	

		point96	96	5,762,903.5	2,285,695.0	118.10				Average	
		point95	95	5,762,965.0	2,285,810.2	117.70				Average	
		point94	94	5,763,029.5	2,285,932.2	117.80				Average	
		point93	93	5,763,084.0	2,286,038.2	117.80				Average	
		point92	92	5,763,139.0	2,286,119.5	117.80					
Higuera SB	24.0	point119	119	5,763,111.5	2,286,133.5	117.80				Average	
		point120	120	5,763,057.0	2,286,052.2	117.80				Average	
		point121	121	5,763,002.0	2,285,946.2	117.80				Average	
		point122	122	5,762,937.5	2,285,824.2	117.70				Average	
		point123	123	5,762,876.0	2,285,709.0	118.10				Average	
		point124	124	5,762,824.0	2,285,610.5	117.30				Average	
		point125	125	5,762,778.5	2,285,521.8	117.20				Average	
		point126	126	5,762,736.5	2,285,445.5	117.70				Average	
		point127	127	5,762,681.0	2,285,347.5	117.00				Average	
		point128	128	5,762,634.5	2,285,270.5	117.50				Average	
		point129	129	5,762,583.5	2,285,186.0	117.80				Average	
		point130	130	5,762,537.5	2,285,105.5	117.80				Average	
		point131	131	5,762,494.0	2,285,025.2	117.70				Average	
		point132	132	5,762,438.0	2,284,936.5	117.90				Average	
		point133	133	5,762,394.0	2,284,856.2	118.00				Average	
		point134	134	5,762,343.5	2,284,766.5	118.30				Average	
		point135	135	5,762,291.5	2,284,671.2	118.80				Average	
		point136	136	5,762,245.5	2,284,589.5	119.40				Average	
		point137	137	5,762,194.0	2,284,498.0	119.10				Average	
		point138	138	5,762,146.0	2,284,418.5	118.90				Average	
		point139	139	5,762,094.5	2,284,328.5	118.90				Average	
		point140	140	5,762,045.5	2,284,246.2	118.90				Average	
		point141	141	5,761,991.0	2,284,153.2	118.90				Average	
		point142	142	5,761,941.5	2,284,067.0	118.90				Average	
		point143	143	5,761,895.0	2,283,987.0	118.90				Average	
		point144	144	5,761,850.0	2,283,912.8	118.90				Average	
		point145	145	5,761,795.5	2,283,820.8	118.90				Average	
		point146	146	5,761,744.0	2,283,732.0	118.90					
US 101 NB 1	24.0	point238	238	5,760,404.5	2,283,771.2	115.00				Average	
		point159	159	5,760,418.5	2,283,950.0	109.70				Average	
		point158	158	5,760,430.0	2,284,090.5	108.50				Average	
		point157	157	5,760,435.5	2,284,276.0	107.30				Average	
		point156	156	5,760,447.0	2,284,457.2	105.00				Average	
		point155	155	5,760,455.0	2,284,641.2	103.60				Average	

		point154	154	5,760,463.5	2,284,804.5	102.00				Average	
		point153	153	5,760,484.0	2,285,000.2	101.10				Average	
		point152	152	5,760,519.0	2,285,172.5	101.40				Average	
		point151	151	5,760,570.5	2,285,349.0	102.20				Average	
		point150	150	5,760,639.0	2,285,520.5	105.00				Average	
		point149	149	5,760,720.0	2,285,681.8	106.80				Average	
		point148	148	5,760,805.0	2,285,843.5	105.00					
US 101 NB 2	24.0	point171	171	5,760,932.0	2,286,087.2	107.30				Average	
		point170	170	5,761,038.0	2,286,285.0	109.20				Average	
		point169	169	5,761,190.0	2,286,574.5	111.50				Average	
		point168	168	5,761,326.5	2,286,835.5	115.00				Average	
		point167	167	5,761,464.5	2,287,095.2	117.00				Average	
		point166	166	5,761,595.5	2,287,348.2	119.00				Average	
		point165	165	5,761,755.0	2,287,647.8	120.70				Average	
		point164	164	5,761,919.5	2,287,958.8	123.70				Average	
		point163	163	5,762,079.5	2,288,267.8	125.00				Average	
		point162	162	5,762,225.0	2,288,539.8	125.00				Average	
		point161	161	5,762,358.5	2,288,794.5	128.50				Average	
		point160	160	5,762,500.0	2,289,064.8	130.00					
US 101 SB 1	24.0	point173	173	5,760,788.0	2,285,947.2	106.70				Average	
		point174	174	5,760,664.5	2,285,712.0	106.80				Average	
		point175	175	5,760,583.5	2,285,550.8	106.70				Average	
		point176	176	5,760,505.0	2,285,367.5	105.30				Average	
		point177	177	5,760,449.0	2,285,185.8	104.10				Average	
		point178	178	5,760,412.5	2,285,010.0	103.60				Average	
		point179	179	5,760,394.5	2,284,810.5	103.50				Average	
		point180	180	5,760,386.5	2,284,647.5	103.60				Average	
		point181	181	5,760,378.0	2,284,463.2	105.10				Average	
		point182	182	5,760,364.5	2,284,280.8	106.70				Average	
		point183	183	5,760,358.5	2,284,095.2	108.50				Average	
		point184	184	5,760,347.5	2,283,952.2	109.60				Average	
		point237	237	5,760,335.5	2,283,772.5	109.70					
US 101 SB 2	24.0	point186	186	5,762,449.5	2,289,092.5	130.00				Average	
		point187	187	5,762,303.0	2,288,824.8	128.50				Average	
		point188	188	5,762,169.5	2,288,570.0	125.00				Average	
		point189	189	5,762,024.0	2,288,297.8	125.00				Average	
		point190	190	5,761,864.0	2,287,989.0	123.60				Average	
		point191	191	5,761,699.5	2,287,678.0	120.70				Average	
		point192	192	5,761,540.0	2,287,378.5	119.50				Average	

		point193	193	5,761,409.0	2,287,125.2	117.00				Average	
		point194	194	5,761,271.0	2,286,865.8	115.00				Average	
		point195	195	5,761,134.5	2,286,604.5	111.50				Average	
		point196	196	5,760,982.5	2,286,315.2	109.20				Average	
		point197	197	5,760,905.5	2,286,168.0	108.40					
US 101 On-Ramp	12.0	point211	211	5,761,017.5	2,285,577.0	122.40				Average	
		point210	210	5,760,968.5	2,285,523.0	122.10				Average	
		point209	209	5,760,914.0	2,285,466.2	118.00				Average	
		point208	208	5,760,862.5	2,285,419.5	114.60				Average	
		point207	207	5,760,802.0	2,285,393.8	113.30				Average	
		point206	206	5,760,744.5	2,285,404.2	107.90				Average	
		point205	205	5,760,707.5	2,285,431.5	104.70				Average	
		point204	204	5,760,685.0	2,285,478.2	104.50				Average	
		point203	203	5,760,685.0	2,285,529.8	103.40				Average	
		point202	202	5,760,701.5	2,285,587.2	103.40				Average	
		point201	201	5,760,727.5	2,285,642.2	102.50				Average	
		point200	200	5,760,758.5	2,285,705.0	104.50				Average	
		point199	199	5,760,785.0	2,285,760.2	104.80				Average	
		point198	198	5,760,813.5	2,285,816.2	105.30					
US 101 NB Off-Ramp	12.0	point213	213	5,760,460.0	2,284,353.0	106.00				Average	
		point214	214	5,760,472.0	2,284,457.0	105.00				Average	
		point215	215	5,760,481.5	2,284,543.2	104.00				Average	
		point216	216	5,760,496.5	2,284,648.0	102.50				Average	
		point217	217	5,760,508.5	2,284,754.2	103.00				Average	
		point221	221	5,760,524.0	2,284,853.2	104.00				Average	
		point222	222	5,760,555.0	2,284,954.0	105.30				Average	
		point223	223	5,760,596.5	2,285,048.5	106.40				Average	
		point224	224	5,760,651.5	2,285,144.5	107.50				Average	
		point225	225	5,760,716.5	2,285,229.0	108.50				Average	
		point226	226	5,760,779.0	2,285,297.8	110.30				Average	
		point227	227	5,760,846.0	2,285,364.2	114.30				Average	
		point228	228	5,760,910.5	2,285,433.8	117.90				Average	
		point229	229	5,760,975.5	2,285,513.5	121.60				Average	
		point230	230	5,761,027.0	2,285,565.0	120.20					
US 101 SB Off-Ramp	12.0	point236	236	5,760,801.5	2,286,530.5	105.00				Average	
		point235	235	5,760,910.0	2,286,574.0	107.00				Average	
		point234	234	5,761,030.0	2,286,632.5	110.00				Average	
		point233	233	5,761,124.0	2,286,701.8	111.00				Average	
		point232	232	5,761,216.5	2,286,829.5	113.80					

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 03

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
Los Osos Valley WB	point51	51	650	40	8	40	4	35	0	0	0	0
	point50	50	650	40	8	40	4	35	0	0	0	0
	point49	49	650	40	8	40	4	35	0	0	0	0
	point48	48	650	40	8	40	4	35	0	0	0	0
	point47	47	650	40	8	40	4	35	0	0	0	0
	point46	46	650	40	8	40	4	35	0	0	0	0
	point45	45	650	40	8	40	4	35	0	0	0	0
	point44	44	650	40	8	40	4	35	0	0	0	0
	point43	43	650	40	8	40	4	35	0	0	0	0
	point42	42	650	40	8	40	4	35	0	0	0	0
	point41	41	650	40	8	40	4	35	0	0	0	0
	point40	40	650	40	8	40	4	35	0	0	0	0
	point39	39	650	40	8	40	4	35	0	0	0	0
	point38	38	650	40	8	40	4	35	0	0	0	0
	point37	37	650	40	8	40	4	35	0	0	0	0
	point36	36	650	40	8	40	4	35	0	0	0	0
	point35	35	650	40	8	40	4	35	0	0	0	0
	point34	34	650	40	8	40	4	35	0	0	0	0
	point33	33	650	40	8	40	4	35	0	0	0	0
	point32	32	650	40	8	40	4	35	0	0	0	0
	point31	31	650	40	8	40	4	35	0	0	0	0
	point30	30	650	40	8	40	4	35	0	0	0	0
	point29	29	650	40	8	40	4	35	0	0	0	0

	point28	28	650	40	8	40	4	35	0	0	0	0
	point27	27	650	40	8	40	4	35	0	0	0	0
	point26	26	650	40	8	40	4	35	0	0	0	0
	point25	25	650	40	8	40	4	35	0	0	0	0
	point24	24	650	40	8	40	4	35	0	0	0	0
	point23	23	650	40	8	40	4	35	0	0	0	0
	point22	22	650	40	8	40	4	35	0	0	0	0
	point21	21	650	40	8	40	4	35	0	0	0	0
	point20	20	650	40	8	40	4	35	0	0	0	0
	point19	19	650	40	8	40	4	35	0	0	0	0
	point18	18	650	40	8	40	4	35	0	0	0	0
	point17	17	650	40	8	40	4	35	0	0	0	0
	point16	16	650	40	8	40	4	35	0	0	0	0
	point15	15	650	40	8	40	4	35	0	0	0	0
	point14	14	650	40	8	40	4	35	0	0	0	0
	point13	13	650	40	8	40	4	35	0	0	0	0
	point12	12										
Los Osos Valley EB	point52	52	724	40	36	40	4	35	0	0	0	0
	point53	53	724	40	36	40	4	35	0	0	0	0
	point54	54	724	40	36	40	4	35	0	0	0	0
	point55	55	724	40	36	40	4	35	0	0	0	0
	point56	56	724	40	36	40	4	35	0	0	0	0
	point57	57	724	40	36	40	4	35	0	0	0	0
	point58	58	724	40	36	40	4	35	0	0	0	0
	point59	59	724	40	36	40	4	35	0	0	0	0
	point60	60	724	40	36	40	4	35	0	0	0	0
	point61	61	724	40	36	40	4	35	0	0	0	0
	point62	62	724	40	36	40	4	35	0	0	0	0
	point63	63	724	40	36	40	4	35	0	0	0	0
	point64	64	724	40	36	40	4	35	0	0	0	0
	point65	65	724	40	36	40	4	35	0	0	0	0
	point66	66	724	40	36	40	4	35	0	0	0	0
	point67	67	724	40	36	40	4	35	0	0	0	0
	point68	68	724	40	36	40	4	35	0	0	0	0
	point69	69	724	40	36	40	4	35	0	0	0	0

	point70	70	724	40	36	40	4	35	0	0	0	0
	point71	71	724	40	36	40	4	35	0	0	0	0
	point72	72	724	40	36	40	4	35	0	0	0	0
	point73	73	724	40	36	40	4	35	0	0	0	0
	point74	74	724	40	36	40	4	35	0	0	0	0
	point75	75	724	40	36	40	4	35	0	0	0	0
	point76	76	724	40	36	40	4	35	0	0	0	0
	point77	77	724	40	36	40	4	35	0	0	0	0
	point78	78	724	40	36	40	4	35	0	0	0	0
	point79	79	724	40	36	40	4	35	0	0	0	0
	point80	80	724	40	36	40	4	35	0	0	0	0
	point81	81	724	40	36	40	4	35	0	0	0	0
	point82	82	724	40	36	40	4	35	0	0	0	0
	point83	83	724	40	36	40	4	35	0	0	0	0
	point84	84	724	40	36	40	4	35	0	0	0	0
	point85	85	724	40	36	40	4	35	0	0	0	0
	point86	86	724	40	36	40	4	35	0	0	0	0
	point87	87	724	40	36	40	4	35	0	0	0	0
	point88	88	724	40	36	40	4	35	0	0	0	0
	point89	89	724	40	36	40	4	35	0	0	0	0
	point90	90	724	40	36	40	4	35	0	0	0	0
	point91	91										
Higuera NB	point147	147	244	40	12	40	8	35	0	0	0	0
	point118	118	244	40	12	40	8	35	0	0	0	0
	point117	117	244	40	12	40	8	35	0	0	0	0
	point116	116	244	40	12	40	8	35	0	0	0	0
	point115	115	244	40	12	40	8	35	0	0	0	0
	point114	114	244	40	12	40	8	35	0	0	0	0
	point113	113	244	40	12	40	8	35	0	0	0	0
	point112	112	244	40	12	40	8	35	0	0	0	0
	point111	111	244	40	12	40	8	35	0	0	0	0
	point110	110	244	40	12	40	8	35	0	0	0	0
	point109	109	244	40	12	40	8	35	0	0	0	0
	point108	108	244	40	12	40	8	35	0	0	0	0
	point107	107	244	40	12	40	8	35	0	0	0	0

	point106	106	244	40	12	40	8	35	0	0	0	0
	point105	105	244	40	12	40	8	35	0	0	0	0
	point104	104	244	40	12	40	8	35	0	0	0	0
	point103	103	244	40	12	40	8	35	0	0	0	0
	point102	102	244	40	12	40	8	35	0	0	0	0
	point101	101	244	40	12	40	8	35	0	0	0	0
	point100	100	244	40	12	40	8	35	0	0	0	0
	point99	99	244	40	12	40	8	35	0	0	0	0
	point98	98	244	40	12	40	8	35	0	0	0	0
	point97	97	244	40	12	40	8	35	0	0	0	0
	point96	96	244	40	12	40	8	35	0	0	0	0
	point95	95	244	40	12	40	8	35	0	0	0	0
	point94	94	244	40	12	40	8	35	0	0	0	0
	point93	93	244	40	12	40	8	35	0	0	0	0
	point92	92										
Higuera SB	point119	119	244	40	12	40	8	35	0	0	0	0
	point120	120	244	40	12	40	8	35	0	0	0	0
	point121	121	244	40	12	40	8	35	0	0	0	0
	point122	122	244	40	12	40	8	35	0	0	0	0
	point123	123	244	40	12	40	8	35	0	0	0	0
	point124	124	244	40	12	40	8	35	0	0	0	0
	point125	125	244	40	12	40	8	35	0	0	0	0
	point126	126	244	40	12	40	8	35	0	0	0	0
	point127	127	244	40	12	40	8	35	0	0	0	0
	point128	128	244	40	12	40	8	35	0	0	0	0
	point129	129	244	40	12	40	8	35	0	0	0	0
	point130	130	244	40	12	40	8	35	0	0	0	0
	point131	131	244	40	12	40	8	35	0	0	0	0
	point132	132	244	40	12	40	8	35	0	0	0	0
	point133	133	244	40	12	40	8	35	0	0	0	0
	point134	134	244	40	12	40	8	35	0	0	0	0
	point135	135	244	40	12	40	8	35	0	0	0	0
	point136	136	244	40	12	40	8	35	0	0	0	0
	point137	137	244	40	12	40	8	35	0	0	0	0
	point138	138	244	40	12	40	8	35	0	0	0	0

	point139	139	244	40	12	40	8	35	0	0	0	0
	point140	140	244	40	12	40	8	35	0	0	0	0
	point141	141	244	40	12	40	8	35	0	0	0	0
	point142	142	244	40	12	40	8	35	0	0	0	0
	point143	143	244	40	12	40	8	35	0	0	0	0
	point144	144	244	40	12	40	8	35	0	0	0	0
	point145	145	244	40	12	40	8	35	0	0	0	0
	point146	146										
US 101 NB 1	point238	238	1332	65	36	65	12	60	0	0	0	0
	point159	159	1332	65	36	65	12	60	0	0	0	0
	point158	158	1332	65	36	65	12	60	0	0	0	0
	point157	157	1332	65	36	65	12	60	0	0	0	0
	point156	156	1332	65	36	65	12	60	0	0	0	0
	point155	155	1332	65	36	65	12	60	0	0	0	0
	point154	154	1332	65	36	65	12	60	0	0	0	0
	point153	153	1332	65	36	65	12	60	0	0	0	0
	point152	152	1332	65	36	65	12	60	0	0	0	0
	point151	151	1332	65	36	65	12	60	0	0	0	0
	point150	150	1332	65	36	65	12	60	0	0	0	0
	point149	149	1332	65	36	65	12	60	0	0	0	0
	point148	148										
US 101 NB 2	point171	171	1332	65	36	65	12	60	0	0	0	0
	point170	170	1332	65	36	65	12	60	0	0	0	0
	point169	169	1332	65	36	65	12	60	0	0	0	0
	point168	168	1332	65	36	65	12	60	0	0	0	0
	point167	167	1332	65	36	65	12	60	0	0	0	0
	point166	166	1332	65	36	65	12	60	0	0	0	0
	point165	165	1332	65	36	65	12	60	0	0	0	0
	point164	164	1332	65	36	65	12	60	0	0	0	0
	point163	163	1332	65	36	65	12	60	0	0	0	0
	point162	162	1332	65	36	65	12	60	0	0	0	0
	point161	161	1332	65	36	65	12	60	0	0	0	0
	point160	160										
US 101 SB 1	point173	173	1444	65	60	65	60	60	0	0	0	0
	point174	174	1444	65	60	65	60	60	0	0	0	0

	point175	175	1444	65	60	65	60	60	0	0	0	0
	point176	176	1444	65	60	65	60	60	0	0	0	0
	point177	177	1444	65	60	65	60	60	0	0	0	0
	point178	178	1444	65	60	65	60	60	0	0	0	0
	point179	179	1444	65	60	65	60	60	0	0	0	0
	point180	180	1444	65	60	65	60	60	0	0	0	0
	point181	181	1444	65	60	65	60	60	0	0	0	0
	point182	182	1444	65	60	65	60	60	0	0	0	0
	point183	183	1444	65	60	65	60	60	0	0	0	0
	point184	184	1444	65	60	65	60	60	0	0	0	0
	point237	237										
US 101 SB 2	point186	186	1444	65	60	65	60	60	0	0	0	0
	point187	187	1444	65	60	65	60	60	0	0	0	0
	point188	188	1444	65	60	65	60	60	0	0	0	0
	point189	189	1444	65	60	65	60	60	0	0	0	0
	point190	190	1444	65	60	65	60	60	0	0	0	0
	point191	191	1444	65	60	65	60	60	0	0	0	0
	point192	192	1444	65	60	65	60	60	0	0	0	0
	point193	193	1444	65	60	65	60	60	0	0	0	0
	point194	194	1444	65	60	65	60	60	0	0	0	0
	point195	195	1444	65	60	65	60	60	0	0	0	0
	point196	196	1444	65	60	65	60	60	0	0	0	0
	point197	197										
US 101 On-Ramp	point211	211	0	0	0	0	0	0	0	0	0	0
	point210	210	0	0	0	0	0	0	0	0	0	0
	point209	209	0	0	0	0	0	0	0	0	0	0
	point208	208	0	0	0	0	0	0	0	0	0	0
	point207	207	0	0	0	0	0	0	0	0	0	0
	point206	206	0	0	0	0	0	0	0	0	0	0
	point205	205	0	0	0	0	0	0	0	0	0	0
	point204	204	0	0	0	0	0	0	0	0	0	0
	point203	203	0	0	0	0	0	0	0	0	0	0
	point202	202	0	0	0	0	0	0	0	0	0	0
	point201	201	0	0	0	0	0	0	0	0	0	0
	point200	200	0	0	0	0	0	0	0	0	0	0

	point199	199	0	0	0	0	0	0	0	0	0	0
	point198	198										
US 101 NB Off-Ramp	point213	213	376	45	24	45	12	40	0	0	0	0
	point214	214	376	45	24	45	12	40	0	0	0	0
	point215	215	376	45	24	45	12	40	0	0	0	0
	point216	216	376	45	24	45	12	40	0	0	0	0
	point217	217	376	45	24	45	12	40	0	0	0	0
	point221	221	376	45	24	45	12	40	0	0	0	0
	point222	222	376	45	24	45	12	40	0	0	0	0
	point223	223	376	45	24	45	12	40	0	0	0	0
	point224	224	376	45	24	45	12	40	0	0	0	0
	point225	225	376	45	24	45	12	40	0	0	0	0
	point226	226	376	45	24	45	12	40	0	0	0	0
	point227	227	376	45	24	45	12	40	0	0	0	0
	point228	228	376	45	24	45	12	40	0	0	0	0
	point229	229	376	45	24	45	12	40	0	0	0	0
	point230	230										
US 101 SB Off-Ramp	point236	236	0	0	0	0	0	0	0	0	0	0
	point235	235	0	0	0	0	0	0	0	0	0	0
	point234	234	0	0	0	0	0	0	0	0	0	0
	point233	233	0	0	0	0	0	0	0	0	0	0
	point232	232										

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2 September 2006
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 03

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
M-3	3	1	5,761,418.0	2,285,373.2	110.90	5.00	0.00	66	12.0	8.0	Y

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2 September 2006
TNM 2.5

INPUT: TERRAIN LINES
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 03

Terrain Line Name	Points No.	Coordinates (ground) X ft	Y ft	Z ft
Los Oso Valley WB	40	5,762,477.0	2,285,082.2	117.20
	39	5,762,347.5	2,285,152.0	113.70
	38	5,762,225.0	2,285,186.0	111.90
	37	5,762,093.0	2,285,199.2	111.10
	36	5,761,961.5	2,285,212.2	110.10
	35	5,761,817.5	2,285,224.0	109.40
	34	5,761,685.0	2,285,238.0	108.80
	33	5,761,553.5	2,285,256.2	108.40
	32	5,761,436.5	2,285,289.8	108.60
	31	5,761,343.0	2,285,340.2	109.30
	30	5,761,255.5	2,285,404.0	110.80
	29	5,761,176.0	2,285,469.5	114.60
	28	5,761,108.0	2,285,552.5	120.20
	27	5,761,043.5	2,285,660.2	120.30
	26	5,760,995.5	2,285,775.8	126.10
	25	5,760,956.0	2,285,887.2	127.30
	24	5,760,917.5	2,285,997.0	129.80
	23	5,760,881.5	2,286,104.2	129.60
	22	5,760,835.5	2,286,242.2	127.40
	21	5,760,800.5	2,286,351.8	119.80
	20	5,760,754.5	2,286,488.8	112.10
	19	5,760,735.5	2,286,603.0	109.20
	18	5,760,700.0	2,286,744.0	108.30
	17	5,760,649.5	2,286,882.5	108.10

	16	5,760,601.5	2,287,001.8	110.20
	15	5,760,559.0	2,287,105.2	109.40
	14	5,760,506.0	2,287,222.2	111.80
	13	5,760,454.5	2,287,334.2	112.70
	12	5,760,398.0	2,287,440.5	112.10
	11	5,760,338.5	2,287,548.5	113.40
	10	5,760,273.5	2,287,659.2	115.30
	9	5,760,200.0	2,287,776.2	114.90
	8	5,760,129.0	2,287,887.0	115.40
	7	5,760,069.0	2,287,981.0	116.90
	6	5,760,000.5	2,288,084.8	117.60
	5	5,759,937.0	2,288,186.0	117.20
	4	5,759,869.5	2,288,284.5	117.20
	3	5,759,804.0	2,288,382.0	117.20
	2	5,759,747.5	2,288,466.2	117.20
	1	5,759,689.5	2,288,554.2	117.20
Los Oso Valley EB	80	5,762,455.0	2,285,023.5	117.20
	79	5,762,332.0	2,285,097.2	113.70
	78	5,762,216.5	2,285,132.0	111.90
	77	5,762,088.0	2,285,145.0	111.30
	76	5,761,956.5	2,285,155.5	110.10
	75	5,761,812.5	2,285,167.8	109.40
	74	5,761,679.5	2,285,178.8	108.80
	73	5,761,543.0	2,285,207.0	108.40
	72	5,761,422.5	2,285,260.0	108.60
	71	5,761,326.5	2,285,312.0	109.30
	70	5,761,236.5	2,285,373.0	110.80
	69	5,761,152.0	2,285,444.0	114.60
	68	5,761,078.0	2,285,523.0	120.20
	67	5,761,004.0	2,285,639.5	120.30
	66	5,760,959.5	2,285,762.5	126.10
	65	5,760,921.5	2,285,874.0	127.30
	64	5,760,883.0	2,285,983.5	129.80
	63	5,760,843.5	2,286,093.0	129.60
	62	5,760,795.5	2,286,231.8	127.40

	61	5,760,757.5	2,286,343.0	119.80
	60	5,760,704.5	2,286,471.8	112.10
	59	5,760,673.0	2,286,583.2	109.20
	58	5,760,626.0	2,286,717.0	108.30
	57	5,760,583.0	2,286,857.0	108.10
	56	5,760,541.0	2,286,979.0	110.20
	55	5,760,497.0	2,287,082.0	109.40
	54	5,760,441.0	2,287,194.0	111.80
	53	5,760,389.0	2,287,301.8	112.70
	52	5,760,335.0	2,287,409.0	112.10
	51	5,760,273.5	2,287,516.2	113.40
	50	5,760,209.0	2,287,621.2	115.30
	49	5,760,135.5	2,287,738.0	114.90
	48	5,760,064.5	2,287,848.8	115.40
	47	5,760,005.0	2,287,936.5	116.90
	46	5,759,933.0	2,288,037.5	117.60
	45	5,759,864.0	2,288,138.8	117.20
	44	5,759,793.0	2,288,237.5	117.20
	43	5,759,725.0	2,288,335.5	117.20
	42	5,759,668.5	2,288,419.8	117.20
	41	5,759,610.5	2,288,507.5	117.20
Higuera NB	110	5,761,764.5	2,283,719.0	118.90
	109	5,761,817.5	2,283,807.8	118.90
	108	5,761,870.0	2,283,897.8	118.90
	107	5,761,914.5	2,283,973.5	118.90
	106	5,761,960.5	2,284,054.8	118.90
	105	5,762,010.0	2,284,141.0	118.90
	104	5,762,065.0	2,284,233.0	118.90
	103	5,762,114.0	2,284,315.2	118.90
	102	5,762,165.5	2,284,405.0	118.90
	101	5,762,213.5	2,284,484.5	119.10
	100	5,762,268.5	2,284,576.5	119.40
	99	5,762,318.0	2,284,655.8	118.80
	98	5,762,374.0	2,284,747.8	118.30
	97	5,762,426.5	2,284,836.0	118.90

	96	5,762,471.5	2,284,915.5	117.90
	95	5,762,525.5	2,285,007.5	117.70
	94	5,762,569.0	2,285,087.8	117.80
	93	5,762,615.0	2,285,168.5	117.80
	92	5,762,662.5	2,285,250.8	117.50
	91	5,762,713.0	2,285,330.0	117.00
	90	5,762,773.0	2,285,423.5	117.70
	89	5,762,817.0	2,285,500.0	117.20
	88	5,762,862.5	2,285,588.5	117.30
	87	5,762,914.5	2,285,687.0	118.10
	86	5,762,976.0	2,285,802.2	117.70
	85	5,763,040.5	2,285,924.5	117.80
	84	5,763,095.5	2,286,030.2	117.80
	83	5,763,150.5	2,286,111.5	117.80
Higuera SB	139	5,761,733.5	2,283,737.5	118.90
	138	5,761,785.5	2,283,826.2	118.90
	137	5,761,839.5	2,283,918.2	118.90
	136	5,761,885.0	2,283,992.5	118.90
	135	5,761,931.0	2,284,072.8	118.90
	134	5,761,980.5	2,284,158.8	118.90
	133	5,762,035.0	2,284,251.8	118.90
	132	5,762,084.0	2,284,334.0	118.90
	131	5,762,135.5	2,284,424.0	118.90
	130	5,762,183.5	2,284,503.5	119.10
	129	5,762,235.0	2,284,595.0	119.40
	128	5,762,281.5	2,284,677.0	118.80
	127	5,762,333.0	2,284,772.0	118.30
	126	5,762,383.5	2,284,862.0	118.00
	125	5,762,427.5	2,284,942.0	117.90
	124	5,762,483.5	2,285,031.0	117.70
	123	5,762,527.0	2,285,111.0	117.80
	122	5,762,573.0	2,285,191.8	117.80
	121	5,762,624.0	2,285,276.2	117.50
	120	5,762,671.0	2,285,353.0	117.00
	119	5,762,726.5	2,285,451.0	117.70

	118	5,762,768.0	2,285,527.5	117.20
	117	5,762,813.5	2,285,616.2	117.30
	116	5,762,865.5	2,285,714.8	118.10
	115	5,762,927.0	2,285,829.8	117.70
	114	5,762,991.5	2,285,952.0	117.80
	113	5,763,046.5	2,286,058.0	117.80
	112	5,763,101.0	2,286,139.2	117.80
US 101 NB Off-Ramp	220	5,761,039.0	2,285,548.0	120.20
	219	5,760,990.0	2,285,500.5	121.60
	218	5,760,919.5	2,285,427.0	117.90
	217	5,760,854.5	2,285,357.2	114.30
	216	5,760,787.5	2,285,291.0	110.30
	215	5,760,725.0	2,285,222.2	108.50
	214	5,760,660.5	2,285,137.5	107.50
	213	5,760,605.5	2,285,041.5	106.40
	212	5,760,563.5	2,284,947.2	105.30
	211	5,760,533.0	2,284,846.5	104.00
	210	5,760,517.5	2,284,747.5	103.00
	209	5,760,505.5	2,284,641.2	102.50
	208	5,760,490.0	2,284,536.5	104.00
	207	5,760,480.5	2,284,450.2	105.00
	206	5,760,468.5	2,284,346.2	106.00
US 101 SB Off-Ramp	225	5,760,796.0	2,286,543.5	105.00
	224	5,760,904.5	2,286,587.2	107.00
	223	5,761,024.5	2,286,645.8	110.00
	222	5,761,120.0	2,286,707.2	111.00
	221	5,761,207.0	2,286,834.5	113.80
US 101 NB 1	238	5,760,423.5	2,283,770.0	115.00
	237	5,760,437.5	2,283,950.0	109.70
	236	5,760,446.5	2,284,089.2	108.50
	235	5,760,449.0	2,284,274.2	107.30
	234	5,760,457.0	2,284,457.5	105.00
	233	5,760,468.0	2,284,638.2	103.60
	232	5,760,479.5	2,284,804.5	102.00
	231	5,760,499.0	2,284,998.0	101.10

	230	5,760,535.5	2,285,170.0	101.40
	229	5,760,586.0	2,285,341.0	102.20
	228	5,760,654.5	2,285,515.0	105.00
	227	5,760,737.0	2,285,673.0	106.80
	226	5,760,821.5	2,285,835.0	105.00
US 101 NB 2	250	5,760,948.5	2,286,078.5	107.30
	249	5,761,054.5	2,286,276.2	109.20
	248	5,761,206.5	2,286,565.8	111.50
	247	5,761,343.0	2,286,827.0	115.00
	246	5,761,481.0	2,287,086.5	117.00
	245	5,761,612.0	2,287,339.5	119.00
	244	5,761,771.5	2,287,639.0	120.70
	243	5,761,936.5	2,287,950.0	123.70
	242	5,762,096.5	2,288,259.0	125.00
	241	5,762,241.5	2,288,531.0	125.00
	240	5,762,375.5	2,288,785.8	128.50
	239	5,762,516.5	2,289,056.0	130.00
US 101 SB 1	263	5,760,312.5	2,283,773.8	109.70
	262	5,760,332.0	2,283,954.5	109.60
	261	5,760,339.0	2,284,096.0	108.50
	260	5,760,344.5	2,284,281.5	106.70
	259	5,760,355.5	2,284,464.8	105.10
	258	5,760,364.0	2,284,648.8	103.60
	257	5,760,375.5	2,284,812.5	103.50
	256	5,760,393.5	2,285,012.0	103.60
	255	5,760,431.5	2,285,191.0	104.10
	254	5,760,486.5	2,285,377.0	105.30
	253	5,760,565.0	2,285,560.5	106.70
	252	5,760,646.0	2,285,721.5	106.80
	251	5,760,769.5	2,285,957.0	106.70
US 101 SB 2	275	5,760,886.5	2,286,177.8	108.40
	274	5,760,964.0	2,286,324.8	109.20
	273	5,761,116.0	2,286,614.2	111.50
	272	5,761,252.0	2,286,875.5	115.00
	271	5,761,390.0	2,287,135.0	117.00

INPUT: TERRAIN LINES

	270	5,761,521.5	2,287,388.0	119.50
	269	5,761,681.0	2,287,687.5	120.70
	268	5,761,845.5	2,287,998.5	123.60
	267	5,762,005.5	2,288,307.5	125.00
	266	5,762,150.5	2,288,579.5	125.00
	265	5,762,284.5	2,288,834.2	128.50
	264	5,762,430.5	2,289,102.0	130.00

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 03
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					With Barrier			
				LAeq1h		Increase over existing		Type	Calculated	Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n Sub'l Inc	Impact	LAeq1h	Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
M-3	3	1	0.0	62.8	66	62.8	12	----	62.8	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction		
		Min	Avg	Max
		dB	dB	dB
All Selected	1	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

CALIBRATION M-4

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 04

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

Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Los Osos Valley WB	12.0	point51	51	5,762,472.0	2,285,071.2	117.20				Average	
		point50	50	5,762,344.5	2,285,142.2	113.70				Average	
		point49	49	5,762,223.5	2,285,174.5	111.90				Average	
		point48	48	5,762,092.0	2,285,186.8	111.10				Average	
		point47	47	5,761,960.5	2,285,198.8	110.10				Average	
		point46	46	5,761,816.5	2,285,211.0	109.40				Average	
		point45	45	5,761,684.5	2,285,224.8	108.80				Average	
		point44	44	5,761,549.5	2,285,241.5	108.40				Average	
		point43	43	5,761,433.0	2,285,282.5	108.60				Average	
		point42	42	5,761,339.0	2,285,333.2	109.30				Average	
		point41	41	5,761,250.0	2,285,395.8	110.80				Average	
		point40	40	5,761,169.0	2,285,462.0	114.60				Average	
		point39	39	5,761,095.5	2,285,544.0	120.20				Average	
		point38	38	5,761,030.5	2,285,654.8	120.30				Average	
		point37	37	5,760,982.5	2,285,770.2	126.10				Average	
		point36	36	5,760,947.5	2,285,882.2	127.30				Average	
		point35	35	5,760,909.0	2,285,992.0	129.80				Average	
		point34	34	5,760,871.5	2,286,100.2	129.60				Average	
		point33	33	5,760,822.5	2,286,238.8	127.40				Average	
		point32	32	5,760,787.5	2,286,348.5	119.80				Average	
		point31	31	5,760,743.0	2,286,483.2	112.10				Average	
		point30	30	5,760,723.5	2,286,597.5	109.20				Average	
		point29	29	5,760,676.5	2,286,732.5	108.30				Average	
		point28	28	5,760,626.0	2,286,871.2	108.10				Average	
		point27	27	5,760,582.5	2,286,991.5	110.20				Average	

		point26	26	5,760,540.5	2,287,095.0	109.40				Average	
		point25	25	5,760,487.5	2,287,212.0	111.80				Average	
		point24	24	5,760,435.5	2,287,324.0	112.70				Average	
		point23	23	5,760,379.5	2,287,430.5	112.10				Average	
		point22	22	5,760,320.0	2,287,538.2	113.40				Average	
		point21	21	5,760,255.0	2,287,649.0	115.30				Average	
		point20	20	5,760,181.5	2,287,766.0	114.90				Average	
		point19	19	5,760,110.5	2,287,876.8	115.40				Average	
		point18	18	5,760,050.5	2,287,970.8	116.90				Average	
		point17	17	5,759,980.5	2,288,071.8	117.60				Average	
		point16	16	5,759,916.5	2,288,173.0	117.20				Average	
		point15	15	5,759,849.0	2,288,271.8	117.20				Average	
		point14	14	5,759,785.5	2,288,371.8	117.20				Average	
		point13	13	5,759,728.5	2,288,456.0	117.20				Average	
		point12	12	5,759,671.0	2,288,544.0	117.20					
Los Osos Valley EB	12.0	point52	52	5,759,628.0	2,288,520.0	117.20				Average	
		point53	53	5,759,686.0	2,288,432.2	117.20				Average	
		point54	54	5,759,742.5	2,288,348.0	117.20				Average	
		point55	55	5,759,810.5	2,288,250.0	117.20				Average	
		point56	56	5,759,881.5	2,288,151.2	117.20				Average	
		point57	57	5,759,950.5	2,288,050.0	117.60				Average	
		point58	58	5,760,022.0	2,287,949.0	116.90				Average	
		point59	59	5,760,082.0	2,287,861.2	115.40				Average	
		point60	60	5,760,153.0	2,287,750.5	114.90				Average	
		point61	61	5,760,226.5	2,287,633.8	115.30				Average	
		point62	62	5,760,288.5	2,287,524.2	113.40				Average	
		point63	63	5,760,350.0	2,287,417.0	112.10				Average	
		point64	64	5,760,404.0	2,287,310.0	112.70				Average	
		point65	65	5,760,456.0	2,287,202.0	111.80				Average	
		point66	66	5,760,509.0	2,287,085.2	109.40				Average	
		point67	67	5,760,552.5	2,286,982.2	110.20				Average	
		point68	68	5,760,595.0	2,286,860.2	108.10				Average	
		point69	69	5,760,640.5	2,286,721.0	108.30				Average	
		point70	70	5,760,687.5	2,286,587.0	109.20				Average	
		point71	71	5,760,719.0	2,286,475.5	112.10				Average	
		point72	72	5,760,769.0	2,286,346.0	119.80				Average	
		point73	73	5,760,807.0	2,286,234.5	127.40				Average	
		point74	74	5,760,855.5	2,286,094.8	129.60				Average	
		point75	75	5,760,893.0	2,285,986.2	129.80				Average	

		point76	76	5,760,931.5	2,285,876.8	127.30				Average	
		point77	77	5,760,969.0	2,285,765.5	126.10				Average	
		point78	78	5,761,017.5	2,285,645.5	120.30				Average	
		point79	79	5,761,084.5	2,285,532.0	120.20				Average	
		point80	80	5,761,158.0	2,285,450.0	114.60				Average	
		point81	81	5,761,240.5	2,285,379.0	110.80				Average	
		point82	82	5,761,330.0	2,285,316.2	109.30				Average	
		point83	83	5,761,424.0	2,285,265.8	108.60				Average	
		point84	84	5,761,545.5	2,285,222.0	108.40				Average	
		point85	85	5,761,681.0	2,285,191.8	108.80				Average	
		point86	86	5,761,813.0	2,285,178.0	109.40				Average	
		point87	87	5,761,957.0	2,285,165.8	110.10				Average	
		point88	88	5,762,088.5	2,285,153.8	111.30				Average	
		point89	89	5,762,217.0	2,285,142.2	111.90				Average	
		point90	90	5,762,335.0	2,285,106.5	113.70				Average	
		point91	91	5,762,461.5	2,285,038.5	117.20					
Higuera NB	24.0	point147	147	5,761,753.0	2,283,727.0	118.90				Average	
		point118	118	5,761,806.5	2,283,815.8	118.90				Average	
		point117	117	5,761,858.5	2,283,905.8	118.90				Average	
		point116	116	5,761,903.5	2,283,981.5	118.90				Average	
		point115	115	5,761,949.5	2,284,062.8	118.90				Average	
		point114	114	5,761,999.0	2,284,148.8	118.90				Average	
		point113	113	5,762,054.0	2,284,240.8	118.90				Average	
		point112	112	5,762,103.0	2,284,323.2	118.90				Average	
		point111	111	5,762,154.5	2,284,413.0	118.90				Average	
		point110	110	5,762,202.5	2,284,492.5	119.10				Average	
		point109	109	5,762,257.5	2,284,584.5	119.40				Average	
		point108	108	5,762,307.0	2,284,663.8	118.80				Average	
		point107	107	5,762,362.5	2,284,755.8	118.30				Average	
		point106	106	5,762,415.5	2,284,844.0	118.90				Average	
		point105	105	5,762,460.0	2,284,923.5	117.90				Average	
		point104	104	5,762,514.5	2,285,015.5	117.70				Average	
		point103	103	5,762,558.0	2,285,095.8	117.80				Average	
		point102	102	5,762,604.0	2,285,176.5	117.80				Average	
		point101	101	5,762,651.0	2,285,258.8	117.50				Average	
		point100	100	5,762,701.5	2,285,337.8	117.00				Average	
		point99	99	5,762,762.0	2,285,431.5	117.70				Average	
		point98	98	5,762,806.0	2,285,508.0	117.20				Average	
		point97	97	5,762,851.0	2,285,596.5	117.30				Average	

		point96	96	5,762,903.5	2,285,695.0	118.10				Average	
		point95	95	5,762,965.0	2,285,810.2	117.70				Average	
		point94	94	5,763,029.5	2,285,932.2	117.80				Average	
		point93	93	5,763,084.0	2,286,038.2	117.80				Average	
		point92	92	5,763,139.0	2,286,119.5	117.80					
Higuera SB	24.0	point119	119	5,763,111.5	2,286,133.5	117.80				Average	
		point120	120	5,763,057.0	2,286,052.2	117.80				Average	
		point121	121	5,763,002.0	2,285,946.2	117.80				Average	
		point122	122	5,762,937.5	2,285,824.2	117.70				Average	
		point123	123	5,762,876.0	2,285,709.0	118.10				Average	
		point124	124	5,762,824.0	2,285,610.5	117.30				Average	
		point125	125	5,762,778.5	2,285,521.8	117.20				Average	
		point126	126	5,762,736.5	2,285,445.5	117.70				Average	
		point127	127	5,762,681.0	2,285,347.5	117.00				Average	
		point128	128	5,762,634.5	2,285,270.5	117.50				Average	
		point129	129	5,762,583.5	2,285,186.0	117.80				Average	
		point130	130	5,762,537.5	2,285,105.5	117.80				Average	
		point131	131	5,762,494.0	2,285,025.2	117.70				Average	
		point132	132	5,762,438.0	2,284,936.5	117.90				Average	
		point133	133	5,762,394.0	2,284,856.2	118.00				Average	
		point134	134	5,762,343.5	2,284,766.5	118.30				Average	
		point135	135	5,762,291.5	2,284,671.2	118.80				Average	
		point136	136	5,762,245.5	2,284,589.5	119.40				Average	
		point137	137	5,762,194.0	2,284,498.0	119.10				Average	
		point138	138	5,762,146.0	2,284,418.5	118.90				Average	
		point139	139	5,762,094.5	2,284,328.5	118.90				Average	
		point140	140	5,762,045.5	2,284,246.2	118.90				Average	
		point141	141	5,761,991.0	2,284,153.2	118.90				Average	
		point142	142	5,761,941.5	2,284,067.0	118.90				Average	
		point143	143	5,761,895.0	2,283,987.0	118.90				Average	
		point144	144	5,761,850.0	2,283,912.8	118.90				Average	
		point145	145	5,761,795.5	2,283,820.8	118.90				Average	
		point146	146	5,761,744.0	2,283,732.0	118.90					
US 101 NB 1	24.0	point238	238	5,760,404.5	2,283,771.2	115.00				Average	
		point159	159	5,760,418.5	2,283,950.0	109.70				Average	
		point158	158	5,760,430.0	2,284,090.5	108.50				Average	
		point157	157	5,760,435.5	2,284,276.0	107.30				Average	
		point156	156	5,760,447.0	2,284,457.2	105.00				Average	
		point155	155	5,760,455.0	2,284,641.2	103.60				Average	

		point154	154	5,760,463.5	2,284,804.5	102.00				Average	
		point153	153	5,760,484.0	2,285,000.2	101.10				Average	
		point152	152	5,760,519.0	2,285,172.5	101.40				Average	
		point151	151	5,760,570.5	2,285,349.0	102.20				Average	
		point150	150	5,760,639.0	2,285,520.5	105.00				Average	
		point149	149	5,760,720.0	2,285,681.8	106.80				Average	
		point148	148	5,760,805.0	2,285,843.5	105.00					
US 101 NB 2	24.0	point171	171	5,760,932.0	2,286,087.2	107.30				Average	
		point170	170	5,761,038.0	2,286,285.0	109.20				Average	
		point169	169	5,761,190.0	2,286,574.5	111.50				Average	
		point168	168	5,761,326.5	2,286,835.5	115.00				Average	
		point167	167	5,761,464.5	2,287,095.2	117.00				Average	
		point166	166	5,761,595.5	2,287,348.2	119.00				Average	
		point165	165	5,761,755.0	2,287,647.8	120.70				Average	
		point164	164	5,761,919.5	2,287,958.8	123.70				Average	
		point163	163	5,762,079.5	2,288,267.8	125.00				Average	
		point162	162	5,762,225.0	2,288,539.8	125.00				Average	
		point161	161	5,762,358.5	2,288,794.5	128.50				Average	
		point160	160	5,762,500.0	2,289,064.8	130.00					
US 101 SB 1	24.0	point173	173	5,760,788.0	2,285,947.2	106.70				Average	
		point174	174	5,760,664.5	2,285,712.0	106.80				Average	
		point175	175	5,760,583.5	2,285,550.8	106.70				Average	
		point176	176	5,760,505.0	2,285,367.5	105.30				Average	
		point177	177	5,760,449.0	2,285,185.8	104.10				Average	
		point178	178	5,760,412.5	2,285,010.0	103.60				Average	
		point179	179	5,760,394.5	2,284,810.5	103.50				Average	
		point180	180	5,760,386.5	2,284,647.5	103.60				Average	
		point181	181	5,760,378.0	2,284,463.2	105.10				Average	
		point182	182	5,760,364.5	2,284,280.8	106.70				Average	
		point183	183	5,760,358.5	2,284,095.2	108.50				Average	
		point184	184	5,760,347.5	2,283,952.2	109.60				Average	
		point237	237	5,760,335.5	2,283,772.5	109.70					
US 101 SB 2	24.0	point186	186	5,762,449.5	2,289,092.5	130.00				Average	
		point187	187	5,762,303.0	2,288,824.8	128.50				Average	
		point188	188	5,762,169.5	2,288,570.0	125.00				Average	
		point189	189	5,762,024.0	2,288,297.8	125.00				Average	
		point190	190	5,761,864.0	2,287,989.0	123.60				Average	
		point191	191	5,761,699.5	2,287,678.0	120.70				Average	
		point192	192	5,761,540.0	2,287,378.5	119.50				Average	

		point193	193	5,761,409.0	2,287,125.2	117.00				Average	
		point194	194	5,761,271.0	2,286,865.8	115.00				Average	
		point195	195	5,761,134.5	2,286,604.5	111.50				Average	
		point196	196	5,760,982.5	2,286,315.2	109.20				Average	
		point197	197	5,760,905.5	2,286,168.0	108.40					
US 101 On-Ramp	12.0	point211	211	5,761,017.5	2,285,577.0	122.40				Average	
		point210	210	5,760,968.5	2,285,523.0	122.10				Average	
		point209	209	5,760,914.0	2,285,466.2	118.00				Average	
		point208	208	5,760,862.5	2,285,419.5	114.60				Average	
		point207	207	5,760,802.0	2,285,393.8	113.30				Average	
		point206	206	5,760,744.5	2,285,404.2	107.90				Average	
		point205	205	5,760,707.5	2,285,431.5	104.70				Average	
		point204	204	5,760,685.0	2,285,478.2	104.50				Average	
		point203	203	5,760,685.0	2,285,529.8	103.40				Average	
		point202	202	5,760,701.5	2,285,587.2	103.40				Average	
		point201	201	5,760,727.5	2,285,642.2	102.50				Average	
		point200	200	5,760,758.5	2,285,705.0	104.50				Average	
		point199	199	5,760,785.0	2,285,760.2	104.80				Average	
		point198	198	5,760,813.5	2,285,816.2	105.30					
US 101 NB Off-Ramp	12.0	point213	213	5,760,460.0	2,284,353.0	106.00				Average	
		point214	214	5,760,472.0	2,284,457.0	105.00				Average	
		point215	215	5,760,481.5	2,284,543.2	104.00				Average	
		point216	216	5,760,496.5	2,284,648.0	102.50				Average	
		point217	217	5,760,508.5	2,284,754.2	103.00				Average	
		point221	221	5,760,524.0	2,284,853.2	104.00				Average	
		point222	222	5,760,555.0	2,284,954.0	105.30				Average	
		point223	223	5,760,596.5	2,285,048.5	106.40				Average	
		point224	224	5,760,651.5	2,285,144.5	107.50				Average	
		point225	225	5,760,716.5	2,285,229.0	108.50				Average	
		point226	226	5,760,779.0	2,285,297.8	110.30				Average	
		point227	227	5,760,846.0	2,285,364.2	114.30				Average	
		point228	228	5,760,910.5	2,285,433.8	117.90				Average	
		point229	229	5,760,975.5	2,285,513.5	121.60				Average	
		point230	230	5,761,027.0	2,285,565.0	120.20					
US 101 SB Off-Ramp	12.0	point236	236	5,760,801.5	2,286,530.5	105.00				Average	
		point235	235	5,760,910.0	2,286,574.0	107.00				Average	
		point234	234	5,761,030.0	2,286,632.5	110.00				Average	
		point233	233	5,761,124.0	2,286,701.8	111.00				Average	
		point232	232	5,761,216.5	2,286,829.5	113.80					

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 04

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
Los Osos Valley WB	point51	51	512	40	8	40	4	35	0	0	0	0
	point50	50	512	40	8	40	4	35	0	0	0	0
	point49	49	512	40	8	40	4	35	0	0	0	0
	point48	48	512	40	8	40	4	35	0	0	0	0
	point47	47	512	40	8	40	4	35	0	0	0	0
	point46	46	512	40	8	40	4	35	0	0	0	0
	point45	45	512	40	8	40	4	35	0	0	0	0
	point44	44	512	40	8	40	4	35	0	0	0	0
	point43	43	512	40	8	40	4	35	0	0	0	0
	point42	42	512	40	8	40	4	35	0	0	0	0
	point41	41	512	40	8	40	4	35	0	0	0	0
	point40	40	512	40	8	40	4	35	0	0	0	0
	point39	39	512	40	8	40	4	35	0	0	0	0
	point38	38	512	40	8	40	4	35	0	0	0	0
	point37	37	512	40	8	40	4	35	0	0	0	0
	point36	36	512	40	8	40	4	35	0	0	0	0
	point35	35	512	40	8	40	4	35	0	0	0	0
	point34	34	512	40	8	40	4	35	0	0	0	0
	point33	33	512	40	8	40	4	35	0	0	0	0
	point32	32	512	40	8	40	4	35	0	0	0	0
	point31	31	512	40	8	40	4	35	0	0	0	0
	point30	30	512	40	8	40	4	35	0	0	0	0
	point29	29	512	40	8	40	4	35	0	0	0	0

	point28	28	512	40	8	40	4	35	0	0	0	0
	point27	27	512	40	8	40	4	35	0	0	0	0
	point26	26	512	40	8	40	4	35	0	0	0	0
	point25	25	512	40	8	40	4	35	0	0	0	0
	point24	24	512	40	8	40	4	35	0	0	0	0
	point23	23	512	40	8	40	4	35	0	0	0	0
	point22	22	512	40	8	40	4	35	0	0	0	0
	point21	21	512	40	8	40	4	35	0	0	0	0
	point20	20	512	40	8	40	4	35	0	0	0	0
	point19	19	512	40	8	40	4	35	0	0	0	0
	point18	18	512	40	8	40	4	35	0	0	0	0
	point17	17	512	40	8	40	4	35	0	0	0	0
	point16	16	512	40	8	40	4	35	0	0	0	0
	point15	15	512	40	8	40	4	35	0	0	0	0
	point14	14	512	40	8	40	4	35	0	0	0	0
	point13	13	512	40	8	40	4	35	0	0	0	0
	point12	12										
Los Osos Valley EB	point52	52	636	40	20	40	0	0	0	0	0	0
	point53	53	636	40	20	40	0	0	0	0	0	0
	point54	54	636	40	20	40	0	0	0	0	0	0
	point55	55	636	40	20	40	0	0	0	0	0	0
	point56	56	636	40	20	40	0	0	0	0	0	0
	point57	57	636	40	20	40	0	0	0	0	0	0
	point58	58	636	40	20	40	0	0	0	0	0	0
	point59	59	636	40	20	40	0	0	0	0	0	0
	point60	60	636	40	20	40	0	0	0	0	0	0
	point61	61	636	40	20	40	0	0	0	0	0	0
	point62	62	636	40	20	40	0	0	0	0	0	0
	point63	63	636	40	20	40	0	0	0	0	0	0
	point64	64	636	40	20	40	0	0	0	0	0	0
	point65	65	636	40	20	40	0	0	0	0	0	0
	point66	66	636	40	20	40	0	0	0	0	0	0
	point67	67	636	40	20	40	0	0	0	0	0	0
	point68	68	636	40	20	40	0	0	0	0	0	0
	point69	69	636	40	20	40	0	0	0	0	0	0

	point70	70	636	40	20	40	0	0	0	0	0	0
	point71	71	636	40	20	40	0	0	0	0	0	0
	point72	72	636	40	20	40	0	0	0	0	0	0
	point73	73	636	40	20	40	0	0	0	0	0	0
	point74	74	636	40	20	40	0	0	0	0	0	0
	point75	75	636	40	20	40	0	0	0	0	0	0
	point76	76	636	40	20	40	0	0	0	0	0	0
	point77	77	636	40	20	40	0	0	0	0	0	0
	point78	78	636	40	20	40	0	0	0	0	0	0
	point79	79	636	40	20	40	0	0	0	0	0	0
	point80	80	636	40	20	40	0	0	0	0	0	0
	point81	81	636	40	20	40	0	0	0	0	0	0
	point82	82	636	40	20	40	0	0	0	0	0	0
	point83	83	636	40	20	40	0	0	0	0	0	0
	point84	84	636	40	20	40	0	0	0	0	0	0
	point85	85	636	40	20	40	0	0	0	0	0	0
	point86	86	636	40	20	40	0	0	0	0	0	0
	point87	87	636	40	20	40	0	0	0	0	0	0
	point88	88	636	40	20	40	0	0	0	0	0	0
	point89	89	636	40	20	40	0	0	0	0	0	0
	point90	90	636	40	20	40	0	0	0	0	0	0
	point91	91										
Higuera NB	point147	147	244	40	12	40	8	35	0	0	0	0
	point118	118	244	40	12	40	8	35	0	0	0	0
	point117	117	244	40	12	40	8	35	0	0	0	0
	point116	116	244	40	12	40	8	35	0	0	0	0
	point115	115	244	40	12	40	8	35	0	0	0	0
	point114	114	244	40	12	40	8	35	0	0	0	0
	point113	113	244	40	12	40	8	35	0	0	0	0
	point112	112	244	40	12	40	8	35	0	0	0	0
	point111	111	244	40	12	40	8	35	0	0	0	0
	point110	110	244	40	12	40	8	35	0	0	0	0
	point109	109	244	40	12	40	8	35	0	0	0	0
	point108	108	244	40	12	40	8	35	0	0	0	0
	point107	107	244	40	12	40	8	35	0	0	0	0

	point106	106	244	40	12	40	8	35	0	0	0	0
	point105	105	244	40	12	40	8	35	0	0	0	0
	point104	104	244	40	12	40	8	35	0	0	0	0
	point103	103	244	40	12	40	8	35	0	0	0	0
	point102	102	244	40	12	40	8	35	0	0	0	0
	point101	101	244	40	12	40	8	35	0	0	0	0
	point100	100	244	40	12	40	8	35	0	0	0	0
	point99	99	244	40	12	40	8	35	0	0	0	0
	point98	98	244	40	12	40	8	35	0	0	0	0
	point97	97	244	40	12	40	8	35	0	0	0	0
	point96	96	244	40	12	40	8	35	0	0	0	0
	point95	95	244	40	12	40	8	35	0	0	0	0
	point94	94	244	40	12	40	8	35	0	0	0	0
	point93	93	244	40	12	40	8	35	0	0	0	0
	point92	92										
Higuera SB	point119	119	244	40	12	40	8	35	0	0	0	0
	point120	120	244	40	12	40	8	35	0	0	0	0
	point121	121	244	40	12	40	8	35	0	0	0	0
	point122	122	244	40	12	40	8	35	0	0	0	0
	point123	123	244	40	12	40	8	35	0	0	0	0
	point124	124	244	40	12	40	8	35	0	0	0	0
	point125	125	244	40	12	40	8	35	0	0	0	0
	point126	126	244	40	12	40	8	35	0	0	0	0
	point127	127	244	40	12	40	8	35	0	0	0	0
	point128	128	244	40	12	40	8	35	0	0	0	0
	point129	129	244	40	12	40	8	35	0	0	0	0
	point130	130	244	40	12	40	8	35	0	0	0	0
	point131	131	244	40	12	40	8	35	0	0	0	0
	point132	132	244	40	12	40	8	35	0	0	0	0
	point133	133	244	40	12	40	8	35	0	0	0	0
	point134	134	244	40	12	40	8	35	0	0	0	0
	point135	135	244	40	12	40	8	35	0	0	0	0
	point136	136	244	40	12	40	8	35	0	0	0	0
	point137	137	244	40	12	40	8	35	0	0	0	0
	point138	138	244	40	12	40	8	35	0	0	0	0

	point139	139	244	40	12	40	8	35	0	0	0	0
	point140	140	244	40	12	40	8	35	0	0	0	0
	point141	141	244	40	12	40	8	35	0	0	0	0
	point142	142	244	40	12	40	8	35	0	0	0	0
	point143	143	244	40	12	40	8	35	0	0	0	0
	point144	144	244	40	12	40	8	35	0	0	0	0
	point145	145	244	40	12	40	8	35	0	0	0	0
	point146	146										
US 101 NB 1	point238	238	1224	65	36	65	48	60	0	0	0	0
	point159	159	1224	65	36	65	48	60	0	0	0	0
	point158	158	1224	65	36	65	48	60	0	0	0	0
	point157	157	1224	65	36	65	48	60	0	0	0	0
	point156	156	1224	65	36	65	48	60	0	0	0	0
	point155	155	1224	65	36	65	48	60	0	0	0	0
	point154	154	1224	65	36	65	48	60	0	0	0	0
	point153	153	1224	65	36	65	48	60	0	0	0	0
	point152	152	1224	65	36	65	48	60	0	0	0	0
	point151	151	1224	65	36	65	48	60	0	0	0	0
	point150	150	1224	65	36	65	48	60	0	0	0	0
	point149	149	1224	65	36	65	48	60	0	0	0	0
	point148	148										
US 101 NB 2	point171	171	1224	65	36	65	48	60	0	0	0	0
	point170	170	1224	65	36	65	48	60	0	0	0	0
	point169	169	1224	65	36	65	48	60	0	0	0	0
	point168	168	1224	65	36	65	48	60	0	0	0	0
	point167	167	1224	65	36	65	48	60	0	0	0	0
	point166	166	1224	65	36	65	48	60	0	0	0	0
	point165	165	1224	65	36	65	48	60	0	0	0	0
	point164	164	1224	65	36	65	48	60	0	0	0	0
	point163	163	1224	65	36	65	48	60	0	0	0	0
	point162	162	1224	65	36	65	48	60	0	0	0	0
	point161	161	1224	65	36	65	48	60	0	0	0	0
	point160	160										
US 101 SB 1	point173	173	1724	65	68	65	80	60	0	0	0	0
	point174	174	1724	65	68	65	80	60	0	0	0	0

	point175	175	1724	65	68	65	80	60	0	0	0	0
	point176	176	1724	65	68	65	80	60	0	0	0	0
	point177	177	1724	65	68	65	80	60	0	0	0	0
	point178	178	1724	65	68	65	80	60	0	0	0	0
	point179	179	1724	65	68	65	80	60	0	0	0	0
	point180	180	1724	65	68	65	80	60	0	0	0	0
	point181	181	1724	65	68	65	80	60	0	0	0	0
	point182	182	1724	65	68	65	80	60	0	0	0	0
	point183	183	1724	65	68	65	80	60	0	0	0	0
	point184	184	1724	65	68	65	80	60	0	0	0	0
	point237	237										
US 101 SB 2	point186	186	1724	65	68	65	80	60	0	0	0	0
	point187	187	1724	65	68	65	80	60	0	0	0	0
	point188	188	1724	65	68	65	80	60	0	0	0	0
	point189	189	1724	65	68	65	80	60	0	0	0	0
	point190	190	1724	65	68	65	80	60	0	0	0	0
	point191	191	1724	65	68	65	80	60	0	0	0	0
	point192	192	1724	65	68	65	80	60	0	0	0	0
	point193	193	1724	65	68	65	80	60	0	0	0	0
	point194	194	1724	65	68	65	80	60	0	0	0	0
	point195	195	1724	65	68	65	80	60	0	0	0	0
	point196	196	1724	65	68	65	80	60	0	0	0	0
	point197	197										
US 101 On-Ramp	point211	211	0	0	0	0	0	0	0	0	0	0
	point210	210	0	0	0	0	0	0	0	0	0	0
	point209	209	0	0	0	0	0	0	0	0	0	0
	point208	208	0	0	0	0	0	0	0	0	0	0
	point207	207	0	0	0	0	0	0	0	0	0	0
	point206	206	0	0	0	0	0	0	0	0	0	0
	point205	205	0	0	0	0	0	0	0	0	0	0
	point204	204	0	0	0	0	0	0	0	0	0	0
	point203	203	0	0	0	0	0	0	0	0	0	0
	point202	202	0	0	0	0	0	0	0	0	0	0
	point201	201	0	0	0	0	0	0	0	0	0	0
	point200	200	0	0	0	0	0	0	0	0	0	0

	point199	199	0	0	0	0	0	0	0	0	0	0
	point198	198										
US 101 NB Off-Ramp	point213	213	456	45	28	45	8	40	0	0	0	0
	point214	214	456	45	28	45	8	40	0	0	0	0
	point215	215	456	45	28	45	8	40	0	0	0	0
	point216	216	456	45	28	45	8	40	0	0	0	0
	point217	217	456	45	28	45	8	40	0	0	0	0
	point221	221	456	45	28	45	8	40	0	0	0	0
	point222	222	456	45	28	45	8	40	0	0	0	0
	point223	223	456	45	28	45	8	40	0	0	0	0
	point224	224	456	45	28	45	8	40	0	0	0	0
	point225	225	456	45	28	45	8	40	0	0	0	0
	point226	226	456	45	28	45	8	40	0	0	0	0
	point227	227	456	45	28	45	8	40	0	0	0	0
	point228	228	456	45	28	45	8	40	0	0	0	0
	point229	229	456	45	28	45	8	40	0	0	0	0
	point230	230										
US 101 SB Off-Ramp	point236	236	0	0	0	0	0	0	0	0	0	0
	point235	235	0	0	0	0	0	0	0	0	0	0
	point234	234	0	0	0	0	0	0	0	0	0	0
	point233	233	0	0	0	0	0	0	0	0	0	0
	point232	232										

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 04

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
M-4	4	1	5,761,643.5	2,285,136.2	108.50	5.00	0.00	66	12.0	8.0	Y

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: TERRAIN LINES
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 04

Terrain Line Name	Points No.	Coordinates (ground) X ft	Y ft	Z ft
Los Oso Valley WB	40	5,762,477.0	2,285,082.2	117.20
	39	5,762,347.5	2,285,152.0	113.70
	38	5,762,225.0	2,285,186.0	111.90
	37	5,762,093.0	2,285,199.2	111.10
	36	5,761,961.5	2,285,212.2	110.10
	35	5,761,817.5	2,285,224.0	109.40
	34	5,761,685.0	2,285,238.0	108.80
	33	5,761,553.5	2,285,256.2	108.40
	32	5,761,436.5	2,285,289.8	108.60
	31	5,761,343.0	2,285,340.2	109.30
	30	5,761,255.5	2,285,404.0	110.80
	29	5,761,176.0	2,285,469.5	114.60
	28	5,761,108.0	2,285,552.5	120.20
	27	5,761,043.5	2,285,660.2	120.30
	26	5,760,995.5	2,285,775.8	126.10
	25	5,760,956.0	2,285,887.2	127.30
	24	5,760,917.5	2,285,997.0	129.80
	23	5,760,881.5	2,286,104.2	129.60
	22	5,760,835.5	2,286,242.2	127.40
	21	5,760,800.5	2,286,351.8	119.80
	20	5,760,754.5	2,286,488.8	112.10
	19	5,760,735.5	2,286,603.0	109.20
	18	5,760,700.0	2,286,744.0	108.30
	17	5,760,649.5	2,286,882.5	108.10

	16	5,760,601.5	2,287,001.8	110.20
	15	5,760,559.0	2,287,105.2	109.40
	14	5,760,506.0	2,287,222.2	111.80
	13	5,760,454.5	2,287,334.2	112.70
	12	5,760,398.0	2,287,440.5	112.10
	11	5,760,338.5	2,287,548.5	113.40
	10	5,760,273.5	2,287,659.2	115.30
	9	5,760,200.0	2,287,776.2	114.90
	8	5,760,129.0	2,287,887.0	115.40
	7	5,760,069.0	2,287,981.0	116.90
	6	5,760,000.5	2,288,084.8	117.60
	5	5,759,937.0	2,288,186.0	117.20
	4	5,759,869.5	2,288,284.5	117.20
	3	5,759,804.0	2,288,382.0	117.20
	2	5,759,747.5	2,288,466.2	117.20
	1	5,759,689.5	2,288,554.2	117.20
Los Oso Valley EB	80	5,762,455.0	2,285,023.5	117.20
	79	5,762,332.0	2,285,097.2	113.70
	78	5,762,216.5	2,285,132.0	111.90
	77	5,762,088.0	2,285,145.0	111.30
	76	5,761,956.5	2,285,155.5	110.10
	75	5,761,812.5	2,285,167.8	109.40
	74	5,761,679.5	2,285,178.8	108.80
	73	5,761,543.0	2,285,207.0	108.40
	72	5,761,422.5	2,285,260.0	108.60
	71	5,761,326.5	2,285,312.0	109.30
	70	5,761,236.5	2,285,373.0	110.80
	69	5,761,152.0	2,285,444.0	114.60
	68	5,761,078.0	2,285,523.0	120.20
	67	5,761,004.0	2,285,639.5	120.30
	66	5,760,959.5	2,285,762.5	126.10
	65	5,760,921.5	2,285,874.0	127.30
	64	5,760,883.0	2,285,983.5	129.80
	63	5,760,843.5	2,286,093.0	129.60
	62	5,760,795.5	2,286,231.8	127.40

	61	5,760,757.5	2,286,343.0	119.80
	60	5,760,704.5	2,286,471.8	112.10
	59	5,760,673.0	2,286,583.2	109.20
	58	5,760,626.0	2,286,717.0	108.30
	57	5,760,583.0	2,286,857.0	108.10
	56	5,760,541.0	2,286,979.0	110.20
	55	5,760,497.0	2,287,082.0	109.40
	54	5,760,441.0	2,287,194.0	111.80
	53	5,760,389.0	2,287,301.8	112.70
	52	5,760,335.0	2,287,409.0	112.10
	51	5,760,273.5	2,287,516.2	113.40
	50	5,760,209.0	2,287,621.2	115.30
	49	5,760,135.5	2,287,738.0	114.90
	48	5,760,064.5	2,287,848.8	115.40
	47	5,760,005.0	2,287,936.5	116.90
	46	5,759,933.0	2,288,037.5	117.60
	45	5,759,864.0	2,288,138.8	117.20
	44	5,759,793.0	2,288,237.5	117.20
	43	5,759,725.0	2,288,335.5	117.20
	42	5,759,668.5	2,288,419.8	117.20
	41	5,759,610.5	2,288,507.5	117.20
Higuera NB	110	5,761,764.5	2,283,719.0	118.90
	109	5,761,817.5	2,283,807.8	118.90
	108	5,761,870.0	2,283,897.8	118.90
	107	5,761,914.5	2,283,973.5	118.90
	106	5,761,960.5	2,284,054.8	118.90
	105	5,762,010.0	2,284,141.0	118.90
	104	5,762,065.0	2,284,233.0	118.90
	103	5,762,114.0	2,284,315.2	118.90
	102	5,762,165.5	2,284,405.0	118.90
	101	5,762,213.5	2,284,484.5	119.10
	100	5,762,268.5	2,284,576.5	119.40
	99	5,762,318.0	2,284,655.8	118.80
	98	5,762,374.0	2,284,747.8	118.30
	97	5,762,426.5	2,284,836.0	118.90

	96	5,762,471.5	2,284,915.5	117.90
	95	5,762,525.5	2,285,007.5	117.70
	94	5,762,569.0	2,285,087.8	117.80
	93	5,762,615.0	2,285,168.5	117.80
	92	5,762,662.5	2,285,250.8	117.50
	91	5,762,713.0	2,285,330.0	117.00
	90	5,762,773.0	2,285,423.5	117.70
	89	5,762,817.0	2,285,500.0	117.20
	88	5,762,862.5	2,285,588.5	117.30
	87	5,762,914.5	2,285,687.0	118.10
	86	5,762,976.0	2,285,802.2	117.70
	85	5,763,040.5	2,285,924.5	117.80
	84	5,763,095.5	2,286,030.2	117.80
	83	5,763,150.5	2,286,111.5	117.80
Higuera SB	139	5,761,733.5	2,283,737.5	118.90
	138	5,761,785.5	2,283,826.2	118.90
	137	5,761,839.5	2,283,918.2	118.90
	136	5,761,885.0	2,283,992.5	118.90
	135	5,761,931.0	2,284,072.8	118.90
	134	5,761,980.5	2,284,158.8	118.90
	133	5,762,035.0	2,284,251.8	118.90
	132	5,762,084.0	2,284,334.0	118.90
	131	5,762,135.5	2,284,424.0	118.90
	130	5,762,183.5	2,284,503.5	119.10
	129	5,762,235.0	2,284,595.0	119.40
	128	5,762,281.5	2,284,677.0	118.80
	127	5,762,333.0	2,284,772.0	118.30
	126	5,762,383.5	2,284,862.0	118.00
	125	5,762,427.5	2,284,942.0	117.90
	124	5,762,483.5	2,285,031.0	117.70
	123	5,762,527.0	2,285,111.0	117.80
	122	5,762,573.0	2,285,191.8	117.80
	121	5,762,624.0	2,285,276.2	117.50
	120	5,762,671.0	2,285,353.0	117.00
	119	5,762,726.5	2,285,451.0	117.70

	118	5,762,768.0	2,285,527.5	117.20
	117	5,762,813.5	2,285,616.2	117.30
	116	5,762,865.5	2,285,714.8	118.10
	115	5,762,927.0	2,285,829.8	117.70
	114	5,762,991.5	2,285,952.0	117.80
	113	5,763,046.5	2,286,058.0	117.80
	112	5,763,101.0	2,286,139.2	117.80
US 101 NB Off-Ramp	220	5,761,039.0	2,285,548.0	120.20
	219	5,760,990.0	2,285,500.5	121.60
	218	5,760,919.5	2,285,427.0	117.90
	217	5,760,854.5	2,285,357.2	114.30
	216	5,760,787.5	2,285,291.0	110.30
	215	5,760,725.0	2,285,222.2	108.50
	214	5,760,660.5	2,285,137.5	107.50
	213	5,760,605.5	2,285,041.5	106.40
	212	5,760,563.5	2,284,947.2	105.30
	211	5,760,533.0	2,284,846.5	104.00
	210	5,760,517.5	2,284,747.5	103.00
	209	5,760,505.5	2,284,641.2	102.50
	208	5,760,490.0	2,284,536.5	104.00
	207	5,760,480.5	2,284,450.2	105.00
	206	5,760,468.5	2,284,346.2	106.00
US 101 SB Off-Ramp	225	5,760,796.0	2,286,543.5	105.00
	224	5,760,904.5	2,286,587.2	107.00
	223	5,761,024.5	2,286,645.8	110.00
	222	5,761,120.0	2,286,707.2	111.00
	221	5,761,207.0	2,286,834.5	113.80
US 101 NB 1	238	5,760,423.5	2,283,770.0	115.00
	237	5,760,437.5	2,283,950.0	109.70
	236	5,760,446.5	2,284,089.2	108.50
	235	5,760,449.0	2,284,274.2	107.30
	234	5,760,457.0	2,284,457.5	105.00
	233	5,760,468.0	2,284,638.2	103.60
	232	5,760,479.5	2,284,804.5	102.00
	231	5,760,499.0	2,284,998.0	101.10

	230	5,760,535.5	2,285,170.0	101.40
	229	5,760,586.0	2,285,341.0	102.20
	228	5,760,654.5	2,285,515.0	105.00
	227	5,760,737.0	2,285,673.0	106.80
	226	5,760,821.5	2,285,835.0	105.00
US 101 NB 2	250	5,760,948.5	2,286,078.5	107.30
	249	5,761,054.5	2,286,276.2	109.20
	248	5,761,206.5	2,286,565.8	111.50
	247	5,761,343.0	2,286,827.0	115.00
	246	5,761,481.0	2,287,086.5	117.00
	245	5,761,612.0	2,287,339.5	119.00
	244	5,761,771.5	2,287,639.0	120.70
	243	5,761,936.5	2,287,950.0	123.70
	242	5,762,096.5	2,288,259.0	125.00
	241	5,762,241.5	2,288,531.0	125.00
	240	5,762,375.5	2,288,785.8	128.50
	239	5,762,516.5	2,289,056.0	130.00
US 101 SB 1	263	5,760,312.5	2,283,773.8	109.70
	262	5,760,332.0	2,283,954.5	109.60
	261	5,760,339.0	2,284,096.0	108.50
	260	5,760,344.5	2,284,281.5	106.70
	259	5,760,355.5	2,284,464.8	105.10
	258	5,760,364.0	2,284,648.8	103.60
	257	5,760,375.5	2,284,812.5	103.50
	256	5,760,393.5	2,285,012.0	103.60
	255	5,760,431.5	2,285,191.0	104.10
	254	5,760,486.5	2,285,377.0	105.30
	253	5,760,565.0	2,285,560.5	106.70
	252	5,760,646.0	2,285,721.5	106.80
	251	5,760,769.5	2,285,957.0	106.70
US 101 SB 2	275	5,760,886.5	2,286,177.8	108.40
	274	5,760,964.0	2,286,324.8	109.20
	273	5,761,116.0	2,286,614.2	111.50
	272	5,761,252.0	2,286,875.5	115.00
	271	5,761,390.0	2,287,135.0	117.00

	270	5,761,521.5	2,287,388.0	119.50
	269	5,761,681.0	2,287,687.5	120.70
	268	5,761,845.5	2,287,998.5	123.60
	267	5,762,005.5	2,288,307.5	125.00
	266	5,762,150.5	2,288,579.5	125.00
	265	5,762,284.5	2,288,834.2	128.50
	264	5,762,430.5	2,289,102.0	130.00

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 04
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					With Barrier			
				LAeq1h		Increase over existing		Type Impact	Calculated LAeq1h	Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n Sub'l Inc			Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
M-4	4	1	0.0	63.2	66	63.2	12	----	63.2	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction		
		Min	Avg	Max
		dB	dB	dB
All Selected	1	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

CALIBRATION M-5

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 05

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

Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Los Osos Valley WB	12.0	point51	51	5,762,472.0	2,285,071.2	117.20				Average	
		point50	50	5,762,344.5	2,285,142.2	113.70				Average	
		point49	49	5,762,223.5	2,285,174.5	111.90				Average	
		point48	48	5,762,092.0	2,285,186.8	111.10				Average	
		point47	47	5,761,960.5	2,285,198.8	110.10				Average	
		point46	46	5,761,816.5	2,285,211.0	109.40				Average	
		point45	45	5,761,684.5	2,285,224.8	108.80				Average	
		point44	44	5,761,549.5	2,285,241.5	108.40				Average	
		point43	43	5,761,433.0	2,285,282.5	108.60				Average	
		point42	42	5,761,339.0	2,285,333.2	109.30				Average	
		point41	41	5,761,250.0	2,285,395.8	110.80				Average	
		point40	40	5,761,169.0	2,285,462.0	114.60				Average	
		point39	39	5,761,095.5	2,285,544.0	120.20				Average	
		point38	38	5,761,030.5	2,285,654.8	120.30				Average	
		point37	37	5,760,982.5	2,285,770.2	126.10				Average	
		point36	36	5,760,947.5	2,285,882.2	127.30				Average	
		point35	35	5,760,909.0	2,285,992.0	129.80				Average	
		point34	34	5,760,871.5	2,286,100.2	129.60				Average	
		point33	33	5,760,822.5	2,286,238.8	127.40				Average	
		point32	32	5,760,787.5	2,286,348.5	119.80				Average	
		point31	31	5,760,743.0	2,286,483.2	112.10				Average	
		point30	30	5,760,723.5	2,286,597.5	109.20				Average	
		point29	29	5,760,676.5	2,286,732.5	108.30				Average	
		point28	28	5,760,626.0	2,286,871.2	108.10				Average	
		point27	27	5,760,582.5	2,286,991.5	110.20				Average	

		point26	26	5,760,540.5	2,287,095.0	109.40				Average	
		point25	25	5,760,487.5	2,287,212.0	111.80				Average	
		point24	24	5,760,435.5	2,287,324.0	112.70				Average	
		point23	23	5,760,379.5	2,287,430.5	112.10				Average	
		point22	22	5,760,320.0	2,287,538.2	113.40				Average	
		point21	21	5,760,255.0	2,287,649.0	115.30				Average	
		point20	20	5,760,181.5	2,287,766.0	114.90				Average	
		point19	19	5,760,110.5	2,287,876.8	115.40				Average	
		point18	18	5,760,050.5	2,287,970.8	116.90				Average	
		point17	17	5,759,980.5	2,288,071.8	117.60				Average	
		point16	16	5,759,916.5	2,288,173.0	117.20				Average	
		point15	15	5,759,849.0	2,288,271.8	117.20				Average	
		point14	14	5,759,785.5	2,288,371.8	117.20				Average	
		point13	13	5,759,728.5	2,288,456.0	117.20				Average	
		point12	12	5,759,671.0	2,288,544.0	117.20					
Los Osos Valley EB	12.0	point52	52	5,759,628.0	2,288,520.0	117.20				Average	
		point53	53	5,759,686.0	2,288,432.2	117.20				Average	
		point54	54	5,759,742.5	2,288,348.0	117.20				Average	
		point55	55	5,759,810.5	2,288,250.0	117.20				Average	
		point56	56	5,759,881.5	2,288,151.2	117.20				Average	
		point57	57	5,759,950.5	2,288,050.0	117.60				Average	
		point58	58	5,760,022.0	2,287,949.0	116.90				Average	
		point59	59	5,760,082.0	2,287,861.2	115.40				Average	
		point60	60	5,760,153.0	2,287,750.5	114.90				Average	
		point61	61	5,760,226.5	2,287,633.8	115.30				Average	
		point62	62	5,760,288.5	2,287,524.2	113.40				Average	
		point63	63	5,760,350.0	2,287,417.0	112.10				Average	
		point64	64	5,760,404.0	2,287,310.0	112.70				Average	
		point65	65	5,760,456.0	2,287,202.0	111.80				Average	
		point66	66	5,760,509.0	2,287,085.2	109.40				Average	
		point67	67	5,760,552.5	2,286,982.2	110.20				Average	
		point68	68	5,760,595.0	2,286,860.2	108.10				Average	
		point69	69	5,760,640.5	2,286,721.0	108.30				Average	
		point70	70	5,760,687.5	2,286,587.0	109.20				Average	
		point71	71	5,760,719.0	2,286,475.5	112.10				Average	
		point72	72	5,760,769.0	2,286,346.0	119.80				Average	
		point73	73	5,760,807.0	2,286,234.5	127.40				Average	
		point74	74	5,760,855.5	2,286,094.8	129.60				Average	
		point75	75	5,760,893.0	2,285,986.2	129.80				Average	

		point76	76	5,760,931.5	2,285,876.8	127.30				Average	
		point77	77	5,760,969.0	2,285,765.5	126.10				Average	
		point78	78	5,761,017.5	2,285,645.5	120.30				Average	
		point79	79	5,761,084.5	2,285,532.0	120.20				Average	
		point80	80	5,761,158.0	2,285,450.0	114.60				Average	
		point81	81	5,761,240.5	2,285,379.0	110.80				Average	
		point82	82	5,761,330.0	2,285,316.2	109.30				Average	
		point83	83	5,761,424.0	2,285,265.8	108.60				Average	
		point84	84	5,761,545.5	2,285,222.0	108.40				Average	
		point85	85	5,761,681.0	2,285,191.8	108.80				Average	
		point86	86	5,761,813.0	2,285,178.0	109.40				Average	
		point87	87	5,761,957.0	2,285,165.8	110.10				Average	
		point88	88	5,762,088.5	2,285,153.8	111.30				Average	
		point89	89	5,762,217.0	2,285,142.2	111.90				Average	
		point90	90	5,762,335.0	2,285,106.5	113.70				Average	
		point91	91	5,762,461.5	2,285,038.5	117.20					
Higuera NB	24.0	point147	147	5,761,753.0	2,283,727.0	118.90				Average	
		point118	118	5,761,806.5	2,283,815.8	118.90				Average	
		point117	117	5,761,858.5	2,283,905.8	118.90				Average	
		point116	116	5,761,903.5	2,283,981.5	118.90				Average	
		point115	115	5,761,949.5	2,284,062.8	118.90				Average	
		point114	114	5,761,999.0	2,284,148.8	118.90				Average	
		point113	113	5,762,054.0	2,284,240.8	118.90				Average	
		point112	112	5,762,103.0	2,284,323.2	118.90				Average	
		point111	111	5,762,154.5	2,284,413.0	118.90				Average	
		point110	110	5,762,202.5	2,284,492.5	119.10				Average	
		point109	109	5,762,257.5	2,284,584.5	119.40				Average	
		point108	108	5,762,307.0	2,284,663.8	118.80				Average	
		point107	107	5,762,362.5	2,284,755.8	118.30				Average	
		point106	106	5,762,415.5	2,284,844.0	118.90				Average	
		point105	105	5,762,460.0	2,284,923.5	117.90				Average	
		point104	104	5,762,514.5	2,285,015.5	117.70				Average	
		point103	103	5,762,558.0	2,285,095.8	117.80				Average	
		point102	102	5,762,604.0	2,285,176.5	117.80				Average	
		point101	101	5,762,651.0	2,285,258.8	117.50				Average	
		point100	100	5,762,701.5	2,285,337.8	117.00				Average	
		point99	99	5,762,762.0	2,285,431.5	117.70				Average	
		point98	98	5,762,806.0	2,285,508.0	117.20				Average	
		point97	97	5,762,851.0	2,285,596.5	117.30				Average	

		point96	96	5,762,903.5	2,285,695.0	118.10				Average	
		point95	95	5,762,965.0	2,285,810.2	117.70				Average	
		point94	94	5,763,029.5	2,285,932.2	117.80				Average	
		point93	93	5,763,084.0	2,286,038.2	117.80				Average	
		point92	92	5,763,139.0	2,286,119.5	117.80					
Higuera SB	24.0	point119	119	5,763,111.5	2,286,133.5	117.80				Average	
		point120	120	5,763,057.0	2,286,052.2	117.80				Average	
		point121	121	5,763,002.0	2,285,946.2	117.80				Average	
		point122	122	5,762,937.5	2,285,824.2	117.70				Average	
		point123	123	5,762,876.0	2,285,709.0	118.10				Average	
		point124	124	5,762,824.0	2,285,610.5	117.30				Average	
		point125	125	5,762,778.5	2,285,521.8	117.20				Average	
		point126	126	5,762,736.5	2,285,445.5	117.70				Average	
		point127	127	5,762,681.0	2,285,347.5	117.00				Average	
		point128	128	5,762,634.5	2,285,270.5	117.50				Average	
		point129	129	5,762,583.5	2,285,186.0	117.80				Average	
		point130	130	5,762,537.5	2,285,105.5	117.80				Average	
		point131	131	5,762,494.0	2,285,025.2	117.70				Average	
		point132	132	5,762,438.0	2,284,936.5	117.90				Average	
		point133	133	5,762,394.0	2,284,856.2	118.00				Average	
		point134	134	5,762,343.5	2,284,766.5	118.30				Average	
		point135	135	5,762,291.5	2,284,671.2	118.80				Average	
		point136	136	5,762,245.5	2,284,589.5	119.40				Average	
		point137	137	5,762,194.0	2,284,498.0	119.10				Average	
		point138	138	5,762,146.0	2,284,418.5	118.90				Average	
		point139	139	5,762,094.5	2,284,328.5	118.90				Average	
		point140	140	5,762,045.5	2,284,246.2	118.90				Average	
		point141	141	5,761,991.0	2,284,153.2	118.90				Average	
		point142	142	5,761,941.5	2,284,067.0	118.90				Average	
		point143	143	5,761,895.0	2,283,987.0	118.90				Average	
		point144	144	5,761,850.0	2,283,912.8	118.90				Average	
		point145	145	5,761,795.5	2,283,820.8	118.90				Average	
		point146	146	5,761,744.0	2,283,732.0	118.90					
US 101 NB 1	24.0	point238	238	5,760,404.5	2,283,771.2	115.00				Average	
		point159	159	5,760,418.5	2,283,950.0	109.70				Average	
		point158	158	5,760,430.0	2,284,090.5	108.50				Average	
		point157	157	5,760,435.5	2,284,276.0	107.30				Average	
		point156	156	5,760,447.0	2,284,457.2	105.00				Average	
		point155	155	5,760,455.0	2,284,641.2	103.60				Average	

		point154	154	5,760,463.5	2,284,804.5	102.00				Average	
		point153	153	5,760,484.0	2,285,000.2	101.10				Average	
		point152	152	5,760,519.0	2,285,172.5	101.40				Average	
		point151	151	5,760,570.5	2,285,349.0	102.20				Average	
		point150	150	5,760,639.0	2,285,520.5	105.00				Average	
		point149	149	5,760,720.0	2,285,681.8	106.80				Average	
		point148	148	5,760,805.0	2,285,843.5	105.00					
US 101 NB 2	24.0	point171	171	5,760,932.0	2,286,087.2	107.30				Average	
		point170	170	5,761,038.0	2,286,285.0	109.20				Average	
		point169	169	5,761,190.0	2,286,574.5	111.50				Average	
		point168	168	5,761,326.5	2,286,835.5	115.00				Average	
		point167	167	5,761,464.5	2,287,095.2	117.00				Average	
		point166	166	5,761,595.5	2,287,348.2	119.00				Average	
		point165	165	5,761,755.0	2,287,647.8	120.70				Average	
		point164	164	5,761,919.5	2,287,958.8	123.70				Average	
		point163	163	5,762,079.5	2,288,267.8	125.00				Average	
		point162	162	5,762,225.0	2,288,539.8	125.00				Average	
		point161	161	5,762,358.5	2,288,794.5	128.50				Average	
		point160	160	5,762,500.0	2,289,064.8	130.00					
US 101 SB 1	24.0	point173	173	5,760,788.0	2,285,947.2	106.70				Average	
		point174	174	5,760,664.5	2,285,712.0	106.80				Average	
		point175	175	5,760,583.5	2,285,550.8	106.70				Average	
		point176	176	5,760,505.0	2,285,367.5	105.30				Average	
		point177	177	5,760,449.0	2,285,185.8	104.10				Average	
		point178	178	5,760,412.5	2,285,010.0	103.60				Average	
		point179	179	5,760,394.5	2,284,810.5	103.50				Average	
		point180	180	5,760,386.5	2,284,647.5	103.60				Average	
		point181	181	5,760,378.0	2,284,463.2	105.10				Average	
		point182	182	5,760,364.5	2,284,280.8	106.70				Average	
		point183	183	5,760,358.5	2,284,095.2	108.50				Average	
		point184	184	5,760,347.5	2,283,952.2	109.60				Average	
		point237	237	5,760,335.5	2,283,772.5	109.70					
US 101 SB 2	24.0	point186	186	5,762,449.5	2,289,092.5	130.00				Average	
		point187	187	5,762,303.0	2,288,824.8	128.50				Average	
		point188	188	5,762,169.5	2,288,570.0	125.00				Average	
		point189	189	5,762,024.0	2,288,297.8	125.00				Average	
		point190	190	5,761,864.0	2,287,989.0	123.60				Average	
		point191	191	5,761,699.5	2,287,678.0	120.70				Average	
		point192	192	5,761,540.0	2,287,378.5	119.50				Average	

		point193	193	5,761,409.0	2,287,125.2	117.00				Average	
		point194	194	5,761,271.0	2,286,865.8	115.00				Average	
		point195	195	5,761,134.5	2,286,604.5	111.50				Average	
		point196	196	5,760,982.5	2,286,315.2	109.20				Average	
		point197	197	5,760,905.5	2,286,168.0	108.40					
US 101 On-Ramp	12.0	point211	211	5,761,017.5	2,285,577.0	122.40				Average	
		point210	210	5,760,968.5	2,285,523.0	122.10				Average	
		point209	209	5,760,914.0	2,285,466.2	118.00				Average	
		point208	208	5,760,862.5	2,285,419.5	114.60				Average	
		point207	207	5,760,802.0	2,285,393.8	113.30				Average	
		point206	206	5,760,744.5	2,285,404.2	107.90				Average	
		point205	205	5,760,707.5	2,285,431.5	104.70				Average	
		point204	204	5,760,685.0	2,285,478.2	104.50				Average	
		point203	203	5,760,685.0	2,285,529.8	103.40				Average	
		point202	202	5,760,701.5	2,285,587.2	103.40				Average	
		point201	201	5,760,727.5	2,285,642.2	102.50				Average	
		point200	200	5,760,758.5	2,285,705.0	104.50				Average	
		point199	199	5,760,785.0	2,285,760.2	104.80				Average	
		point198	198	5,760,813.5	2,285,816.2	105.30					
US 101 NB Off-Ramp	12.0	point213	213	5,760,460.0	2,284,353.0	106.00				Average	
		point214	214	5,760,472.0	2,284,457.0	105.00				Average	
		point215	215	5,760,481.5	2,284,543.2	104.00				Average	
		point216	216	5,760,496.5	2,284,648.0	102.50				Average	
		point217	217	5,760,508.5	2,284,754.2	103.00				Average	
		point221	221	5,760,524.0	2,284,853.2	104.00				Average	
		point222	222	5,760,555.0	2,284,954.0	105.30				Average	
		point223	223	5,760,596.5	2,285,048.5	106.40				Average	
		point224	224	5,760,651.5	2,285,144.5	107.50				Average	
		point225	225	5,760,716.5	2,285,229.0	108.50				Average	
		point226	226	5,760,779.0	2,285,297.8	110.30				Average	
		point227	227	5,760,846.0	2,285,364.2	114.30				Average	
		point228	228	5,760,910.5	2,285,433.8	117.90				Average	
		point229	229	5,760,975.5	2,285,513.5	121.60				Average	
		point230	230	5,761,027.0	2,285,565.0	120.20					
US 101 SB Off-Ramp	12.0	point236	236	5,760,801.5	2,286,530.5	105.00				Average	
		point235	235	5,760,910.0	2,286,574.0	107.00				Average	
		point234	234	5,761,030.0	2,286,632.5	110.00				Average	
		point233	233	5,761,124.0	2,286,701.8	111.00				Average	
		point232	232	5,761,216.5	2,286,829.5	113.80					

LSA Associates, Inc.
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2 September 2006
TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 05

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
Los Osos Valley WB	point51	51	520	40	12	40	4	35	0	0	0	0
	point50	50	520	40	12	40	4	35	0	0	0	0
	point49	49	520	40	12	40	4	35	0	0	0	0
	point48	48	520	40	12	40	4	35	0	0	0	0
	point47	47	520	40	12	40	4	35	0	0	0	0
	point46	46	520	40	12	40	4	35	0	0	0	0
	point45	45	520	40	12	40	4	35	0	0	0	0
	point44	44	520	40	12	40	4	35	0	0	0	0
	point43	43	520	40	12	40	4	35	0	0	0	0
	point42	42	520	40	12	40	4	35	0	0	0	0
	point41	41	520	40	12	40	4	35	0	0	0	0
	point40	40	520	40	12	40	4	35	0	0	0	0
	point39	39	520	40	12	40	4	35	0	0	0	0
	point38	38	520	40	12	40	4	35	0	0	0	0
	point37	37	520	40	12	40	4	35	0	0	0	0
	point36	36	520	40	12	40	4	35	0	0	0	0
	point35	35	520	40	12	40	4	35	0	0	0	0
	point34	34	520	40	12	40	4	35	0	0	0	0
	point33	33	520	40	12	40	4	35	0	0	0	0
	point32	32	520	40	12	40	4	35	0	0	0	0
	point31	31	520	40	12	40	4	35	0	0	0	0
	point30	30	520	40	12	40	4	35	0	0	0	0
	point29	29	520	40	12	40	4	35	0	0	0	0

	point28	28	520	40	12	40	4	35	0	0	0	0
	point27	27	520	40	12	40	4	35	0	0	0	0
	point26	26	520	40	12	40	4	35	0	0	0	0
	point25	25	520	40	12	40	4	35	0	0	0	0
	point24	24	520	40	12	40	4	35	0	0	0	0
	point23	23	520	40	12	40	4	35	0	0	0	0
	point22	22	520	40	12	40	4	35	0	0	0	0
	point21	21	520	40	12	40	4	35	0	0	0	0
	point20	20	520	40	12	40	4	35	0	0	0	0
	point19	19	520	40	12	40	4	35	0	0	0	0
	point18	18	520	40	12	40	4	35	0	0	0	0
	point17	17	520	40	12	40	4	35	0	0	0	0
	point16	16	520	40	12	40	4	35	0	0	0	0
	point15	15	520	40	12	40	4	35	0	0	0	0
	point14	14	520	40	12	40	4	35	0	0	0	0
	point13	13	520	40	12	40	4	35	0	0	0	0
	point12	12										
Los Osos Valley EB	point52	52	852	40	16	40	16	35	0	0	0	0
	point53	53	852	40	16	40	16	35	0	0	0	0
	point54	54	852	40	16	40	16	35	0	0	0	0
	point55	55	852	40	16	40	16	35	0	0	0	0
	point56	56	852	40	16	40	16	35	0	0	0	0
	point57	57	852	40	16	40	16	35	0	0	0	0
	point58	58	852	40	16	40	16	35	0	0	0	0
	point59	59	852	40	16	40	16	35	0	0	0	0
	point60	60	852	40	16	40	16	35	0	0	0	0
	point61	61	852	40	16	40	16	35	0	0	0	0
	point62	62	852	40	16	40	16	35	0	0	0	0
	point63	63	852	40	16	40	16	35	0	0	0	0
	point64	64	852	40	16	40	16	35	0	0	0	0
	point65	65	852	40	16	40	16	35	0	0	0	0
	point66	66	852	40	16	40	16	35	0	0	0	0
	point67	67	852	40	16	40	16	35	0	0	0	0
	point68	68	852	40	16	40	16	35	0	0	0	0
	point69	69	852	40	16	40	16	35	0	0	0	0

	point70	70	852	40	16	40	16	35	0	0	0	0
	point71	71	852	40	16	40	16	35	0	0	0	0
	point72	72	852	40	16	40	16	35	0	0	0	0
	point73	73	852	40	16	40	16	35	0	0	0	0
	point74	74	852	40	16	40	16	35	0	0	0	0
	point75	75	852	40	16	40	16	35	0	0	0	0
	point76	76	852	40	16	40	16	35	0	0	0	0
	point77	77	852	40	16	40	16	35	0	0	0	0
	point78	78	852	40	16	40	16	35	0	0	0	0
	point79	79	852	40	16	40	16	35	0	0	0	0
	point80	80	852	40	16	40	16	35	0	0	0	0
	point81	81	852	40	16	40	16	35	0	0	0	0
	point82	82	852	40	16	40	16	35	0	0	0	0
	point83	83	852	40	16	40	16	35	0	0	0	0
	point84	84	852	40	16	40	16	35	0	0	0	0
	point85	85	852	40	16	40	16	35	0	0	0	0
	point86	86	852	40	16	40	16	35	0	0	0	0
	point87	87	852	40	16	40	16	35	0	0	0	0
	point88	88	852	40	16	40	16	35	0	0	0	0
	point89	89	852	40	16	40	16	35	0	0	0	0
	point90	90	852	40	16	40	16	35	0	0	0	0
	point91	91										
Higuera NB	point147	147	244	40	12	40	8	35	0	0	0	0
	point118	118	244	40	12	40	8	35	0	0	0	0
	point117	117	244	40	12	40	8	35	0	0	0	0
	point116	116	244	40	12	40	8	35	0	0	0	0
	point115	115	244	40	12	40	8	35	0	0	0	0
	point114	114	244	40	12	40	8	35	0	0	0	0
	point113	113	244	40	12	40	8	35	0	0	0	0
	point112	112	244	40	12	40	8	35	0	0	0	0
	point111	111	244	40	12	40	8	35	0	0	0	0
	point110	110	244	40	12	40	8	35	0	0	0	0
	point109	109	244	40	12	40	8	35	0	0	0	0
	point108	108	244	40	12	40	8	35	0	0	0	0
	point107	107	244	40	12	40	8	35	0	0	0	0

	point106	106	244	40	12	40	8	35	0	0	0	0
	point105	105	244	40	12	40	8	35	0	0	0	0
	point104	104	244	40	12	40	8	35	0	0	0	0
	point103	103	244	40	12	40	8	35	0	0	0	0
	point102	102	244	40	12	40	8	35	0	0	0	0
	point101	101	244	40	12	40	8	35	0	0	0	0
	point100	100	244	40	12	40	8	35	0	0	0	0
	point99	99	244	40	12	40	8	35	0	0	0	0
	point98	98	244	40	12	40	8	35	0	0	0	0
	point97	97	244	40	12	40	8	35	0	0	0	0
	point96	96	244	40	12	40	8	35	0	0	0	0
	point95	95	244	40	12	40	8	35	0	0	0	0
	point94	94	244	40	12	40	8	35	0	0	0	0
	point93	93	244	40	12	40	8	35	0	0	0	0
	point92	92										
Higuera SB	point119	119	244	40	12	40	8	35	0	0	0	0
	point120	120	244	40	12	40	8	35	0	0	0	0
	point121	121	244	40	12	40	8	35	0	0	0	0
	point122	122	244	40	12	40	8	35	0	0	0	0
	point123	123	244	40	12	40	8	35	0	0	0	0
	point124	124	244	40	12	40	8	35	0	0	0	0
	point125	125	244	40	12	40	8	35	0	0	0	0
	point126	126	244	40	12	40	8	35	0	0	0	0
	point127	127	244	40	12	40	8	35	0	0	0	0
	point128	128	244	40	12	40	8	35	0	0	0	0
	point129	129	244	40	12	40	8	35	0	0	0	0
	point130	130	244	40	12	40	8	35	0	0	0	0
	point131	131	244	40	12	40	8	35	0	0	0	0
	point132	132	244	40	12	40	8	35	0	0	0	0
	point133	133	244	40	12	40	8	35	0	0	0	0
	point134	134	244	40	12	40	8	35	0	0	0	0
	point135	135	244	40	12	40	8	35	0	0	0	0
	point136	136	244	40	12	40	8	35	0	0	0	0
	point137	137	244	40	12	40	8	35	0	0	0	0
	point138	138	244	40	12	40	8	35	0	0	0	0

	point139	139	244	40	12	40	8	35	0	0	0	0
	point140	140	244	40	12	40	8	35	0	0	0	0
	point141	141	244	40	12	40	8	35	0	0	0	0
	point142	142	244	40	12	40	8	35	0	0	0	0
	point143	143	244	40	12	40	8	35	0	0	0	0
	point144	144	244	40	12	40	8	35	0	0	0	0
	point145	145	244	40	12	40	8	35	0	0	0	0
	point146	146										
US 101 NB 1	point238	238	1244	65	60	65	44	60	0	0	0	0
	point159	159	1244	65	60	65	44	60	0	0	0	0
	point158	158	1244	65	60	65	44	60	0	0	0	0
	point157	157	1244	65	60	65	44	60	0	0	0	0
	point156	156	1244	65	60	65	44	60	0	0	0	0
	point155	155	1244	65	60	65	44	60	0	0	0	0
	point154	154	1244	65	60	65	44	60	0	0	0	0
	point153	153	1244	65	60	65	44	60	0	0	0	0
	point152	152	1244	65	60	65	44	60	0	0	0	0
	point151	151	1244	65	60	65	44	60	0	0	0	0
	point150	150	1244	65	60	65	44	60	0	0	0	0
	point149	149	1244	65	60	65	44	60	0	0	0	0
	point148	148										
US 101 NB 2	point171	171	1244	65	60	65	44	60	0	0	0	0
	point170	170	1244	65	60	65	44	60	0	0	0	0
	point169	169	1244	65	60	65	44	60	0	0	0	0
	point168	168	1244	65	60	65	44	60	0	0	0	0
	point167	167	1244	65	60	65	44	60	0	0	0	0
	point166	166	1244	65	60	65	44	60	0	0	0	0
	point165	165	1244	65	60	65	44	60	0	0	0	0
	point164	164	1244	65	60	65	44	60	0	0	0	0
	point163	163	1244	65	60	65	44	60	0	0	0	0
	point162	162	1244	65	60	65	44	60	0	0	0	0
	point161	161	1244	65	60	65	44	60	0	0	0	0
	point160	160										
US 101 SB 1	point173	173	1876	65	60	65	64	60	0	0	0	0
	point174	174	1876	65	60	65	64	60	0	0	0	0

	point175	175	1876	65	60	65	64	60	0	0	0	0
	point176	176	1876	65	60	65	64	60	0	0	0	0
	point177	177	1876	65	60	65	64	60	0	0	0	0
	point178	178	1876	65	60	65	64	60	0	0	0	0
	point179	179	1876	65	60	65	64	60	0	0	0	0
	point180	180	1876	65	60	65	64	60	0	0	0	0
	point181	181	1876	65	60	65	64	60	0	0	0	0
	point182	182	1876	65	60	65	64	60	0	0	0	0
	point183	183	1876	65	60	65	64	60	0	0	0	0
	point184	184	1876	65	60	65	64	60	0	0	0	0
	point237	237										
US 101 SB 2	point186	186	1876	65	60	65	64	60	0	0	0	0
	point187	187	1876	65	60	65	64	60	0	0	0	0
	point188	188	1876	65	60	65	64	60	0	0	0	0
	point189	189	1876	65	60	65	64	60	0	0	0	0
	point190	190	1876	65	60	65	64	60	0	0	0	0
	point191	191	1876	65	60	65	64	60	0	0	0	0
	point192	192	1876	65	60	65	64	60	0	0	0	0
	point193	193	1876	65	60	65	64	60	0	0	0	0
	point194	194	1876	65	60	65	64	60	0	0	0	0
	point195	195	1876	65	60	65	64	60	0	0	0	0
	point196	196	1876	65	60	65	64	60	0	0	0	0
	point197	197										
US 101 On-Ramp	point211	211	0	0	0	0	0	0	0	0	0	0
	point210	210	0	0	0	0	0	0	0	0	0	0
	point209	209	0	0	0	0	0	0	0	0	0	0
	point208	208	0	0	0	0	0	0	0	0	0	0
	point207	207	0	0	0	0	0	0	0	0	0	0
	point206	206	0	0	0	0	0	0	0	0	0	0
	point205	205	0	0	0	0	0	0	0	0	0	0
	point204	204	0	0	0	0	0	0	0	0	0	0
	point203	203	0	0	0	0	0	0	0	0	0	0
	point202	202	0	0	0	0	0	0	0	0	0	0
	point201	201	0	0	0	0	0	0	0	0	0	0
	point200	200	0	0	0	0	0	0	0	0	0	0

	point199	199	0	0	0	0	0	0	0	0	0	0
	point198	198										
US 101 NB Off-Ramp	point213	213	428	45	28	45	4	40	0	0	0	0
	point214	214	428	45	28	45	4	40	0	0	0	0
	point215	215	428	45	28	45	4	40	0	0	0	0
	point216	216	428	45	28	45	4	40	0	0	0	0
	point217	217	428	45	28	45	4	40	0	0	0	0
	point221	221	428	45	28	45	4	40	0	0	0	0
	point222	222	428	45	28	45	4	40	0	0	0	0
	point223	223	428	45	28	45	4	40	0	0	0	0
	point224	224	428	45	28	45	4	40	0	0	0	0
	point225	225	428	45	28	45	4	40	0	0	0	0
	point226	226	428	45	28	45	4	40	0	0	0	0
	point227	227	428	45	28	45	4	40	0	0	0	0
	point228	228	428	45	28	45	4	40	0	0	0	0
	point229	229	428	45	28	45	4	40	0	0	0	0
	point230	230										
US 101 SB Off-Ramp	point236	236	0	0	0	0	0	0	0	0	0	0
	point235	235	0	0	0	0	0	0	0	0	0	0
	point234	234	0	0	0	0	0	0	0	0	0	0
	point233	233	0	0	0	0	0	0	0	0	0	0
	point232	232										

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2 September 2006
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 05

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Receiver5	5	1	5,762,175.5	2,285,067.2	111.30	5.00	0.00	66	12.0	8.0	Y

LSA Associates, Inc.
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2 September 2006
TNM 2.5

INPUT: TERRAIN LINES
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 05

Terrain Line Name	Points No.	Coordinates (ground) X ft	Y ft	Z ft
Los Oso Valley WB	40	5,762,477.0	2,285,082.2	117.20
	39	5,762,347.5	2,285,152.0	113.70
	38	5,762,225.0	2,285,186.0	111.90
	37	5,762,093.0	2,285,199.2	111.10
	36	5,761,961.5	2,285,212.2	110.10
	35	5,761,817.5	2,285,224.0	109.40
	34	5,761,685.0	2,285,238.0	108.80
	33	5,761,553.5	2,285,256.2	108.40
	32	5,761,436.5	2,285,289.8	108.60
	31	5,761,343.0	2,285,340.2	109.30
	30	5,761,255.5	2,285,404.0	110.80
	29	5,761,176.0	2,285,469.5	114.60
	28	5,761,108.0	2,285,552.5	120.20
	27	5,761,043.5	2,285,660.2	120.30
	26	5,760,995.5	2,285,775.8	126.10
	25	5,760,956.0	2,285,887.2	127.30
	24	5,760,917.5	2,285,997.0	129.80
	23	5,760,881.5	2,286,104.2	129.60
	22	5,760,835.5	2,286,242.2	127.40
	21	5,760,800.5	2,286,351.8	119.80
	20	5,760,754.5	2,286,488.8	112.10
	19	5,760,735.5	2,286,603.0	109.20
	18	5,760,700.0	2,286,744.0	108.30
	17	5,760,649.5	2,286,882.5	108.10

	16	5,760,601.5	2,287,001.8	110.20
	15	5,760,559.0	2,287,105.2	109.40
	14	5,760,506.0	2,287,222.2	111.80
	13	5,760,454.5	2,287,334.2	112.70
	12	5,760,398.0	2,287,440.5	112.10
	11	5,760,338.5	2,287,548.5	113.40
	10	5,760,273.5	2,287,659.2	115.30
	9	5,760,200.0	2,287,776.2	114.90
	8	5,760,129.0	2,287,887.0	115.40
	7	5,760,069.0	2,287,981.0	116.90
	6	5,760,000.5	2,288,084.8	117.60
	5	5,759,937.0	2,288,186.0	117.20
	4	5,759,869.5	2,288,284.5	117.20
	3	5,759,804.0	2,288,382.0	117.20
	2	5,759,747.5	2,288,466.2	117.20
	1	5,759,689.5	2,288,554.2	117.20
Los Oso Valley EB	80	5,762,455.0	2,285,023.5	117.20
	79	5,762,332.0	2,285,097.2	113.70
	78	5,762,216.5	2,285,132.0	111.90
	77	5,762,088.0	2,285,145.0	111.30
	76	5,761,956.5	2,285,155.5	110.10
	75	5,761,812.5	2,285,167.8	109.40
	74	5,761,679.5	2,285,178.8	108.80
	73	5,761,543.0	2,285,207.0	108.40
	72	5,761,422.5	2,285,260.0	108.60
	71	5,761,326.5	2,285,312.0	109.30
	70	5,761,236.5	2,285,373.0	110.80
	69	5,761,152.0	2,285,444.0	114.60
	68	5,761,078.0	2,285,523.0	120.20
	67	5,761,004.0	2,285,639.5	120.30
	66	5,760,959.5	2,285,762.5	126.10
	65	5,760,921.5	2,285,874.0	127.30
	64	5,760,883.0	2,285,983.5	129.80
	63	5,760,843.5	2,286,093.0	129.60
	62	5,760,795.5	2,286,231.8	127.40

	61	5,760,757.5	2,286,343.0	119.80
	60	5,760,704.5	2,286,471.8	112.10
	59	5,760,673.0	2,286,583.2	109.20
	58	5,760,626.0	2,286,717.0	108.30
	57	5,760,583.0	2,286,857.0	108.10
	56	5,760,541.0	2,286,979.0	110.20
	55	5,760,497.0	2,287,082.0	109.40
	54	5,760,441.0	2,287,194.0	111.80
	53	5,760,389.0	2,287,301.8	112.70
	52	5,760,335.0	2,287,409.0	112.10
	51	5,760,273.5	2,287,516.2	113.40
	50	5,760,209.0	2,287,621.2	115.30
	49	5,760,135.5	2,287,738.0	114.90
	48	5,760,064.5	2,287,848.8	115.40
	47	5,760,005.0	2,287,936.5	116.90
	46	5,759,933.0	2,288,037.5	117.60
	45	5,759,864.0	2,288,138.8	117.20
	44	5,759,793.0	2,288,237.5	117.20
	43	5,759,725.0	2,288,335.5	117.20
	42	5,759,668.5	2,288,419.8	117.20
	41	5,759,610.5	2,288,507.5	117.20
Higuera NB	110	5,761,764.5	2,283,719.0	118.90
	109	5,761,817.5	2,283,807.8	118.90
	108	5,761,870.0	2,283,897.8	118.90
	107	5,761,914.5	2,283,973.5	118.90
	106	5,761,960.5	2,284,054.8	118.90
	105	5,762,010.0	2,284,141.0	118.90
	104	5,762,065.0	2,284,233.0	118.90
	103	5,762,114.0	2,284,315.2	118.90
	102	5,762,165.5	2,284,405.0	118.90
	101	5,762,213.5	2,284,484.5	119.10
	100	5,762,268.5	2,284,576.5	119.40
	99	5,762,318.0	2,284,655.8	118.80
	98	5,762,374.0	2,284,747.8	118.30
	97	5,762,426.5	2,284,836.0	118.90

	96	5,762,471.5	2,284,915.5	117.90
	95	5,762,525.5	2,285,007.5	117.70
	94	5,762,569.0	2,285,087.8	117.80
	93	5,762,615.0	2,285,168.5	117.80
	92	5,762,662.5	2,285,250.8	117.50
	91	5,762,713.0	2,285,330.0	117.00
	90	5,762,773.0	2,285,423.5	117.70
	89	5,762,817.0	2,285,500.0	117.20
	88	5,762,862.5	2,285,588.5	117.30
	87	5,762,914.5	2,285,687.0	118.10
	86	5,762,976.0	2,285,802.2	117.70
	85	5,763,040.5	2,285,924.5	117.80
	84	5,763,095.5	2,286,030.2	117.80
	83	5,763,150.5	2,286,111.5	117.80
Higuera SB	139	5,761,733.5	2,283,737.5	118.90
	138	5,761,785.5	2,283,826.2	118.90
	137	5,761,839.5	2,283,918.2	118.90
	136	5,761,885.0	2,283,992.5	118.90
	135	5,761,931.0	2,284,072.8	118.90
	134	5,761,980.5	2,284,158.8	118.90
	133	5,762,035.0	2,284,251.8	118.90
	132	5,762,084.0	2,284,334.0	118.90
	131	5,762,135.5	2,284,424.0	118.90
	130	5,762,183.5	2,284,503.5	119.10
	129	5,762,235.0	2,284,595.0	119.40
	128	5,762,281.5	2,284,677.0	118.80
	127	5,762,333.0	2,284,772.0	118.30
	126	5,762,383.5	2,284,862.0	118.00
	125	5,762,427.5	2,284,942.0	117.90
	124	5,762,483.5	2,285,031.0	117.70
	123	5,762,527.0	2,285,111.0	117.80
	122	5,762,573.0	2,285,191.8	117.80
	121	5,762,624.0	2,285,276.2	117.50
	120	5,762,671.0	2,285,353.0	117.00
	119	5,762,726.5	2,285,451.0	117.70

	118	5,762,768.0	2,285,527.5	117.20
	117	5,762,813.5	2,285,616.2	117.30
	116	5,762,865.5	2,285,714.8	118.10
	115	5,762,927.0	2,285,829.8	117.70
	114	5,762,991.5	2,285,952.0	117.80
	113	5,763,046.5	2,286,058.0	117.80
	112	5,763,101.0	2,286,139.2	117.80
US 101 NB Off-Ramp	220	5,761,039.0	2,285,548.0	120.20
	219	5,760,990.0	2,285,500.5	121.60
	218	5,760,919.5	2,285,427.0	117.90
	217	5,760,854.5	2,285,357.2	114.30
	216	5,760,787.5	2,285,291.0	110.30
	215	5,760,725.0	2,285,222.2	108.50
	214	5,760,660.5	2,285,137.5	107.50
	213	5,760,605.5	2,285,041.5	106.40
	212	5,760,563.5	2,284,947.2	105.30
	211	5,760,533.0	2,284,846.5	104.00
	210	5,760,517.5	2,284,747.5	103.00
	209	5,760,505.5	2,284,641.2	102.50
	208	5,760,490.0	2,284,536.5	104.00
	207	5,760,480.5	2,284,450.2	105.00
	206	5,760,468.5	2,284,346.2	106.00
US 101 SB Off-Ramp	225	5,760,796.0	2,286,543.5	105.00
	224	5,760,904.5	2,286,587.2	107.00
	223	5,761,024.5	2,286,645.8	110.00
	222	5,761,120.0	2,286,707.2	111.00
	221	5,761,207.0	2,286,834.5	113.80
US 101 NB 1	238	5,760,423.5	2,283,770.0	115.00
	237	5,760,437.5	2,283,950.0	109.70
	236	5,760,446.5	2,284,089.2	108.50
	235	5,760,449.0	2,284,274.2	107.30
	234	5,760,457.0	2,284,457.5	105.00
	233	5,760,468.0	2,284,638.2	103.60
	232	5,760,479.5	2,284,804.5	102.00
	231	5,760,499.0	2,284,998.0	101.10

	230	5,760,535.5	2,285,170.0	101.40
	229	5,760,586.0	2,285,341.0	102.20
	228	5,760,654.5	2,285,515.0	105.00
	227	5,760,737.0	2,285,673.0	106.80
	226	5,760,821.5	2,285,835.0	105.00
US 101 NB 2	250	5,760,948.5	2,286,078.5	107.30
	249	5,761,054.5	2,286,276.2	109.20
	248	5,761,206.5	2,286,565.8	111.50
	247	5,761,343.0	2,286,827.0	115.00
	246	5,761,481.0	2,287,086.5	117.00
	245	5,761,612.0	2,287,339.5	119.00
	244	5,761,771.5	2,287,639.0	120.70
	243	5,761,936.5	2,287,950.0	123.70
	242	5,762,096.5	2,288,259.0	125.00
	241	5,762,241.5	2,288,531.0	125.00
	240	5,762,375.5	2,288,785.8	128.50
	239	5,762,516.5	2,289,056.0	130.00
US 101 SB 1	263	5,760,312.5	2,283,773.8	109.70
	262	5,760,332.0	2,283,954.5	109.60
	261	5,760,339.0	2,284,096.0	108.50
	260	5,760,344.5	2,284,281.5	106.70
	259	5,760,355.5	2,284,464.8	105.10
	258	5,760,364.0	2,284,648.8	103.60
	257	5,760,375.5	2,284,812.5	103.50
	256	5,760,393.5	2,285,012.0	103.60
	255	5,760,431.5	2,285,191.0	104.10
	254	5,760,486.5	2,285,377.0	105.30
	253	5,760,565.0	2,285,560.5	106.70
	252	5,760,646.0	2,285,721.5	106.80
	251	5,760,769.5	2,285,957.0	106.70
US 101 SB 2	275	5,760,886.5	2,286,177.8	108.40
	274	5,760,964.0	2,286,324.8	109.20
	273	5,761,116.0	2,286,614.2	111.50
	272	5,761,252.0	2,286,875.5	115.00
	271	5,761,390.0	2,287,135.0	117.00

	270	5,761,521.5	2,287,388.0	119.50
	269	5,761,681.0	2,287,687.5	120.70
	268	5,761,845.5	2,287,998.5	123.60
	267	5,762,005.5	2,288,307.5	125.00
	266	5,762,150.5	2,288,579.5	125.00
	265	5,762,284.5	2,288,834.2	128.50
	264	5,762,430.5	2,289,102.0	130.00

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 05
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					With Barrier			
				LAeq1h		Increase over existing		Type	Calculated	Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n Sub'l Inc	Impact	LAeq1h	Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Receiver5	5	1	0.0	62.4	66	62.4	12	----	62.4	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction		
		Min	Avg	Max
		dB	dB	dB
All Selected	1	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

CALIBRATION M-6

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 06

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

Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Los Osos Valley WB	12.0	point51	51	5,762,472.0	2,285,071.2	117.20				Average	
		point50	50	5,762,344.5	2,285,142.2	113.70				Average	
		point49	49	5,762,223.5	2,285,174.5	111.90				Average	
		point48	48	5,762,092.0	2,285,186.8	111.10				Average	
		point47	47	5,761,960.5	2,285,198.8	110.10				Average	
		point46	46	5,761,816.5	2,285,211.0	109.40				Average	
		point45	45	5,761,684.5	2,285,224.8	108.80				Average	
		point44	44	5,761,549.5	2,285,241.5	108.40				Average	
		point43	43	5,761,433.0	2,285,282.5	108.60				Average	
		point42	42	5,761,339.0	2,285,333.2	109.30				Average	
		point41	41	5,761,250.0	2,285,395.8	110.80				Average	
		point40	40	5,761,169.0	2,285,462.0	114.60				Average	
		point39	39	5,761,095.5	2,285,544.0	120.20				Average	
		point38	38	5,761,030.5	2,285,654.8	120.30				Average	
		point37	37	5,760,982.5	2,285,770.2	126.10				Average	
		point36	36	5,760,947.5	2,285,882.2	127.30				Average	
		point35	35	5,760,909.0	2,285,992.0	129.80				Average	
		point34	34	5,760,871.5	2,286,100.2	129.60				Average	
		point33	33	5,760,822.5	2,286,238.8	127.40				Average	
		point32	32	5,760,787.5	2,286,348.5	119.80				Average	
		point31	31	5,760,743.0	2,286,483.2	112.10				Average	
		point30	30	5,760,723.5	2,286,597.5	109.20				Average	
		point29	29	5,760,676.5	2,286,732.5	108.30				Average	
		point28	28	5,760,626.0	2,286,871.2	108.10				Average	
		point27	27	5,760,582.5	2,286,991.5	110.20				Average	

		point26	26	5,760,540.5	2,287,095.0	109.40				Average	
		point25	25	5,760,487.5	2,287,212.0	111.80				Average	
		point24	24	5,760,435.5	2,287,324.0	112.70				Average	
		point23	23	5,760,379.5	2,287,430.5	112.10				Average	
		point22	22	5,760,320.0	2,287,538.2	113.40				Average	
		point21	21	5,760,255.0	2,287,649.0	115.30				Average	
		point20	20	5,760,181.5	2,287,766.0	114.90				Average	
		point19	19	5,760,110.5	2,287,876.8	115.40				Average	
		point18	18	5,760,050.5	2,287,970.8	116.90				Average	
		point17	17	5,759,980.5	2,288,071.8	117.60				Average	
		point16	16	5,759,916.5	2,288,173.0	117.20				Average	
		point15	15	5,759,849.0	2,288,271.8	117.20				Average	
		point14	14	5,759,785.5	2,288,371.8	117.20				Average	
		point13	13	5,759,728.5	2,288,456.0	117.20				Average	
		point12	12	5,759,671.0	2,288,544.0	117.20					
Los Osos Valley EB	12.0	point52	52	5,759,628.0	2,288,520.0	117.20				Average	
		point53	53	5,759,686.0	2,288,432.2	117.20				Average	
		point54	54	5,759,742.5	2,288,348.0	117.20				Average	
		point55	55	5,759,810.5	2,288,250.0	117.20				Average	
		point56	56	5,759,881.5	2,288,151.2	117.20				Average	
		point57	57	5,759,950.5	2,288,050.0	117.60				Average	
		point58	58	5,760,022.0	2,287,949.0	116.90				Average	
		point59	59	5,760,082.0	2,287,861.2	115.40				Average	
		point60	60	5,760,153.0	2,287,750.5	114.90				Average	
		point61	61	5,760,226.5	2,287,633.8	115.30				Average	
		point62	62	5,760,288.5	2,287,524.2	113.40				Average	
		point63	63	5,760,350.0	2,287,417.0	112.10				Average	
		point64	64	5,760,404.0	2,287,310.0	112.70				Average	
		point65	65	5,760,456.0	2,287,202.0	111.80				Average	
		point66	66	5,760,509.0	2,287,085.2	109.40				Average	
		point67	67	5,760,552.5	2,286,982.2	110.20				Average	
		point68	68	5,760,595.0	2,286,860.2	108.10				Average	
		point69	69	5,760,640.5	2,286,721.0	108.30				Average	
		point70	70	5,760,687.5	2,286,587.0	109.20				Average	
		point71	71	5,760,719.0	2,286,475.5	112.10				Average	
		point72	72	5,760,769.0	2,286,346.0	119.80				Average	
		point73	73	5,760,807.0	2,286,234.5	127.40				Average	
		point74	74	5,760,855.5	2,286,094.8	129.60				Average	
		point75	75	5,760,893.0	2,285,986.2	129.80				Average	

		point76	76	5,760,931.5	2,285,876.8	127.30				Average	
		point77	77	5,760,969.0	2,285,765.5	126.10				Average	
		point78	78	5,761,017.5	2,285,645.5	120.30				Average	
		point79	79	5,761,084.5	2,285,532.0	120.20				Average	
		point80	80	5,761,158.0	2,285,450.0	114.60				Average	
		point81	81	5,761,240.5	2,285,379.0	110.80				Average	
		point82	82	5,761,330.0	2,285,316.2	109.30				Average	
		point83	83	5,761,424.0	2,285,265.8	108.60				Average	
		point84	84	5,761,545.5	2,285,222.0	108.40				Average	
		point85	85	5,761,681.0	2,285,191.8	108.80				Average	
		point86	86	5,761,813.0	2,285,178.0	109.40				Average	
		point87	87	5,761,957.0	2,285,165.8	110.10				Average	
		point88	88	5,762,088.5	2,285,153.8	111.30				Average	
		point89	89	5,762,217.0	2,285,142.2	111.90				Average	
		point90	90	5,762,335.0	2,285,106.5	113.70				Average	
		point91	91	5,762,461.5	2,285,038.5	117.20					
Higuera NB	24.0	point147	147	5,761,753.0	2,283,727.0	118.90				Average	
		point118	118	5,761,806.5	2,283,815.8	118.90				Average	
		point117	117	5,761,858.5	2,283,905.8	118.90				Average	
		point116	116	5,761,903.5	2,283,981.5	118.90				Average	
		point115	115	5,761,949.5	2,284,062.8	118.90				Average	
		point114	114	5,761,999.0	2,284,148.8	118.90				Average	
		point113	113	5,762,054.0	2,284,240.8	118.90				Average	
		point112	112	5,762,103.0	2,284,323.2	118.90				Average	
		point111	111	5,762,154.5	2,284,413.0	118.90				Average	
		point110	110	5,762,202.5	2,284,492.5	119.10				Average	
		point109	109	5,762,257.5	2,284,584.5	119.40				Average	
		point108	108	5,762,307.0	2,284,663.8	118.80				Average	
		point107	107	5,762,362.5	2,284,755.8	118.30				Average	
		point106	106	5,762,415.5	2,284,844.0	118.90				Average	
		point105	105	5,762,460.0	2,284,923.5	117.90				Average	
		point104	104	5,762,514.5	2,285,015.5	117.70				Average	
		point103	103	5,762,558.0	2,285,095.8	117.80				Average	
		point102	102	5,762,604.0	2,285,176.5	117.80				Average	
		point101	101	5,762,651.0	2,285,258.8	117.50				Average	
		point100	100	5,762,701.5	2,285,337.8	117.00				Average	
		point99	99	5,762,762.0	2,285,431.5	117.70				Average	
		point98	98	5,762,806.0	2,285,508.0	117.20				Average	
		point97	97	5,762,851.0	2,285,596.5	117.30				Average	

		point96	96	5,762,903.5	2,285,695.0	118.10				Average	
		point95	95	5,762,965.0	2,285,810.2	117.70				Average	
		point94	94	5,763,029.5	2,285,932.2	117.80				Average	
		point93	93	5,763,084.0	2,286,038.2	117.80				Average	
		point92	92	5,763,139.0	2,286,119.5	117.80					
Higuera SB	24.0	point119	119	5,763,111.5	2,286,133.5	117.80				Average	
		point120	120	5,763,057.0	2,286,052.2	117.80				Average	
		point121	121	5,763,002.0	2,285,946.2	117.80				Average	
		point122	122	5,762,937.5	2,285,824.2	117.70				Average	
		point123	123	5,762,876.0	2,285,709.0	118.10				Average	
		point124	124	5,762,824.0	2,285,610.5	117.30				Average	
		point125	125	5,762,778.5	2,285,521.8	117.20				Average	
		point126	126	5,762,736.5	2,285,445.5	117.70				Average	
		point127	127	5,762,681.0	2,285,347.5	117.00				Average	
		point128	128	5,762,634.5	2,285,270.5	117.50				Average	
		point129	129	5,762,583.5	2,285,186.0	117.80				Average	
		point130	130	5,762,537.5	2,285,105.5	117.80				Average	
		point131	131	5,762,494.0	2,285,025.2	117.70				Average	
		point132	132	5,762,438.0	2,284,936.5	117.90				Average	
		point133	133	5,762,394.0	2,284,856.2	118.00				Average	
		point134	134	5,762,343.5	2,284,766.5	118.30				Average	
		point135	135	5,762,291.5	2,284,671.2	118.80				Average	
		point136	136	5,762,245.5	2,284,589.5	119.40				Average	
		point137	137	5,762,194.0	2,284,498.0	119.10				Average	
		point138	138	5,762,146.0	2,284,418.5	118.90				Average	
		point139	139	5,762,094.5	2,284,328.5	118.90				Average	
		point140	140	5,762,045.5	2,284,246.2	118.90				Average	
		point141	141	5,761,991.0	2,284,153.2	118.90				Average	
		point142	142	5,761,941.5	2,284,067.0	118.90				Average	
		point143	143	5,761,895.0	2,283,987.0	118.90				Average	
		point144	144	5,761,850.0	2,283,912.8	118.90				Average	
		point145	145	5,761,795.5	2,283,820.8	118.90				Average	
		point146	146	5,761,744.0	2,283,732.0	118.90					
US 101 NB 1	24.0	point238	238	5,760,404.5	2,283,771.2	115.00				Average	
		point159	159	5,760,418.5	2,283,950.0	109.70				Average	
		point158	158	5,760,430.0	2,284,090.5	108.50				Average	
		point157	157	5,760,435.5	2,284,276.0	107.30				Average	
		point156	156	5,760,447.0	2,284,457.2	105.00				Average	
		point155	155	5,760,455.0	2,284,641.2	103.60				Average	

		point154	154	5,760,463.5	2,284,804.5	102.00				Average	
		point153	153	5,760,484.0	2,285,000.2	101.10				Average	
		point152	152	5,760,519.0	2,285,172.5	101.40				Average	
		point151	151	5,760,570.5	2,285,349.0	102.20				Average	
		point150	150	5,760,639.0	2,285,520.5	105.00				Average	
		point149	149	5,760,720.0	2,285,681.8	106.80				Average	
		point148	148	5,760,805.0	2,285,843.5	105.00					
US 101 NB 2	24.0	point171	171	5,760,932.0	2,286,087.2	107.30				Average	
		point170	170	5,761,038.0	2,286,285.0	109.20				Average	
		point169	169	5,761,190.0	2,286,574.5	111.50				Average	
		point168	168	5,761,326.5	2,286,835.5	115.00				Average	
		point167	167	5,761,464.5	2,287,095.2	117.00				Average	
		point166	166	5,761,595.5	2,287,348.2	119.00				Average	
		point165	165	5,761,755.0	2,287,647.8	120.70				Average	
		point164	164	5,761,919.5	2,287,958.8	123.70				Average	
		point163	163	5,762,079.5	2,288,267.8	125.00				Average	
		point162	162	5,762,225.0	2,288,539.8	125.00				Average	
		point161	161	5,762,358.5	2,288,794.5	128.50				Average	
		point160	160	5,762,500.0	2,289,064.8	130.00					
US 101 SB 1	24.0	point173	173	5,760,788.0	2,285,947.2	106.70				Average	
		point174	174	5,760,664.5	2,285,712.0	106.80				Average	
		point175	175	5,760,583.5	2,285,550.8	106.70				Average	
		point176	176	5,760,505.0	2,285,367.5	105.30				Average	
		point177	177	5,760,449.0	2,285,185.8	104.10				Average	
		point178	178	5,760,412.5	2,285,010.0	103.60				Average	
		point179	179	5,760,394.5	2,284,810.5	103.50				Average	
		point180	180	5,760,386.5	2,284,647.5	103.60				Average	
		point181	181	5,760,378.0	2,284,463.2	105.10				Average	
		point182	182	5,760,364.5	2,284,280.8	106.70				Average	
		point183	183	5,760,358.5	2,284,095.2	108.50				Average	
		point184	184	5,760,347.5	2,283,952.2	109.60				Average	
		point237	237	5,760,335.5	2,283,772.5	109.70					
US 101 SB 2	24.0	point186	186	5,762,449.5	2,289,092.5	130.00				Average	
		point187	187	5,762,303.0	2,288,824.8	128.50				Average	
		point188	188	5,762,169.5	2,288,570.0	125.00				Average	
		point189	189	5,762,024.0	2,288,297.8	125.00				Average	
		point190	190	5,761,864.0	2,287,989.0	123.60				Average	
		point191	191	5,761,699.5	2,287,678.0	120.70				Average	
		point192	192	5,761,540.0	2,287,378.5	119.50				Average	

		point193	193	5,761,409.0	2,287,125.2	117.00				Average	
		point194	194	5,761,271.0	2,286,865.8	115.00				Average	
		point195	195	5,761,134.5	2,286,604.5	111.50				Average	
		point196	196	5,760,982.5	2,286,315.2	109.20				Average	
		point197	197	5,760,905.5	2,286,168.0	108.40					
US 101 On-Ramp	12.0	point211	211	5,761,017.5	2,285,577.0	122.40				Average	
		point210	210	5,760,968.5	2,285,523.0	122.10				Average	
		point209	209	5,760,914.0	2,285,466.2	118.00				Average	
		point208	208	5,760,862.5	2,285,419.5	114.60				Average	
		point207	207	5,760,802.0	2,285,393.8	113.30				Average	
		point206	206	5,760,744.5	2,285,404.2	107.90				Average	
		point205	205	5,760,707.5	2,285,431.5	104.70				Average	
		point204	204	5,760,685.0	2,285,478.2	104.50				Average	
		point203	203	5,760,685.0	2,285,529.8	103.40				Average	
		point202	202	5,760,701.5	2,285,587.2	103.40				Average	
		point201	201	5,760,727.5	2,285,642.2	102.50				Average	
		point200	200	5,760,758.5	2,285,705.0	104.50				Average	
		point199	199	5,760,785.0	2,285,760.2	104.80				Average	
		point198	198	5,760,813.5	2,285,816.2	105.30					
US 101 NB Off-Ramp	12.0	point213	213	5,760,460.0	2,284,353.0	106.00				Average	
		point214	214	5,760,472.0	2,284,457.0	105.00				Average	
		point215	215	5,760,481.5	2,284,543.2	104.00				Average	
		point216	216	5,760,496.5	2,284,648.0	102.50				Average	
		point217	217	5,760,508.5	2,284,754.2	103.00				Average	
		point221	221	5,760,524.0	2,284,853.2	104.00				Average	
		point222	222	5,760,555.0	2,284,954.0	105.30				Average	
		point223	223	5,760,596.5	2,285,048.5	106.40				Average	
		point224	224	5,760,651.5	2,285,144.5	107.50				Average	
		point225	225	5,760,716.5	2,285,229.0	108.50				Average	
		point226	226	5,760,779.0	2,285,297.8	110.30				Average	
		point227	227	5,760,846.0	2,285,364.2	114.30				Average	
		point228	228	5,760,910.5	2,285,433.8	117.90				Average	
		point229	229	5,760,975.5	2,285,513.5	121.60				Average	
		point230	230	5,761,027.0	2,285,565.0	120.20					
US 101 SB Off-Ramp	12.0	point236	236	5,760,801.5	2,286,530.5	105.00				Average	
		point235	235	5,760,910.0	2,286,574.0	107.00				Average	
		point234	234	5,761,030.0	2,286,632.5	110.00				Average	
		point233	233	5,761,124.0	2,286,701.8	111.00				Average	
		point232	232	5,761,216.5	2,286,829.5	113.80					

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 06

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
Los Osos Valley WB	point51	51	708	40	28	40	8	35	0	0	0	0
	point50	50	708	40	28	40	8	35	0	0	0	0
	point49	49	708	40	28	40	8	35	0	0	0	0
	point48	48	708	40	28	40	8	35	0	0	0	0
	point47	47	708	40	28	40	8	35	0	0	0	0
	point46	46	708	40	28	40	8	35	0	0	0	0
	point45	45	708	40	28	40	8	35	0	0	0	0
	point44	44	708	40	28	40	8	35	0	0	0	0
	point43	43	708	40	28	40	8	35	0	0	0	0
	point42	42	708	40	28	40	8	35	0	0	0	0
	point41	41	708	40	28	40	8	35	0	0	0	0
	point40	40	708	40	28	40	8	35	0	0	0	0
	point39	39	708	40	28	40	8	35	0	0	0	0
	point38	38	708	40	28	40	8	35	0	0	0	0
	point37	37	708	40	28	40	8	35	0	0	0	0
	point36	36	708	40	28	40	8	35	0	0	0	0
	point35	35	708	40	28	40	8	35	0	0	0	0
	point34	34	708	40	28	40	8	35	0	0	0	0
	point33	33	708	40	28	40	8	35	0	0	0	0
	point32	32	708	40	28	40	8	35	0	0	0	0
	point31	31	708	40	28	40	8	35	0	0	0	0
	point30	30	708	40	28	40	8	35	0	0	0	0
	point29	29	708	40	28	40	8	35	0	0	0	0

	point28	28	708	40	28	40	8	35	0	0	0	0
	point27	27	708	40	28	40	8	35	0	0	0	0
	point26	26	708	40	28	40	8	35	0	0	0	0
	point25	25	708	40	28	40	8	35	0	0	0	0
	point24	24	708	40	28	40	8	35	0	0	0	0
	point23	23	708	40	28	40	8	35	0	0	0	0
	point22	22	708	40	28	40	8	35	0	0	0	0
	point21	21	708	40	28	40	8	35	0	0	0	0
	point20	20	708	40	28	40	8	35	0	0	0	0
	point19	19	708	40	28	40	8	35	0	0	0	0
	point18	18	708	40	28	40	8	35	0	0	0	0
	point17	17	708	40	28	40	8	35	0	0	0	0
	point16	16	708	40	28	40	8	35	0	0	0	0
	point15	15	708	40	28	40	8	35	0	0	0	0
	point14	14	708	40	28	40	8	35	0	0	0	0
	point13	13	708	40	28	40	8	35	0	0	0	0
	point12	12										
Los Osos Valley EB	point52	52	740	40	24	40	8	35	0	0	0	0
	point53	53	740	40	24	40	8	35	0	0	0	0
	point54	54	740	40	24	40	8	35	0	0	0	0
	point55	55	740	40	24	40	8	35	0	0	0	0
	point56	56	740	40	24	40	8	35	0	0	0	0
	point57	57	740	40	24	40	8	35	0	0	0	0
	point58	58	740	40	24	40	8	35	0	0	0	0
	point59	59	740	40	24	40	8	35	0	0	0	0
	point60	60	740	40	24	40	8	35	0	0	0	0
	point61	61	740	40	24	40	8	35	0	0	0	0
	point62	62	740	40	24	40	8	35	0	0	0	0
	point63	63	740	40	24	40	8	35	0	0	0	0
	point64	64	740	40	24	40	8	35	0	0	0	0
	point65	65	740	40	24	40	8	35	0	0	0	0
	point66	66	740	40	24	40	8	35	0	0	0	0
	point67	67	740	40	24	40	8	35	0	0	0	0
	point68	68	740	40	24	40	8	35	0	0	0	0
	point69	69	740	40	24	40	8	35	0	0	0	0

	point70	70	740	40	24	40	8	35	0	0	0	0
	point71	71	740	40	24	40	8	35	0	0	0	0
	point72	72	740	40	24	40	8	35	0	0	0	0
	point73	73	740	40	24	40	8	35	0	0	0	0
	point74	74	740	40	24	40	8	35	0	0	0	0
	point75	75	740	40	24	40	8	35	0	0	0	0
	point76	76	740	40	24	40	8	35	0	0	0	0
	point77	77	740	40	24	40	8	35	0	0	0	0
	point78	78	740	40	24	40	8	35	0	0	0	0
	point79	79	740	40	24	40	8	35	0	0	0	0
	point80	80	740	40	24	40	8	35	0	0	0	0
	point81	81	740	40	24	40	8	35	0	0	0	0
	point82	82	740	40	24	40	8	35	0	0	0	0
	point83	83	740	40	24	40	8	35	0	0	0	0
	point84	84	740	40	24	40	8	35	0	0	0	0
	point85	85	740	40	24	40	8	35	0	0	0	0
	point86	86	740	40	24	40	8	35	0	0	0	0
	point87	87	740	40	24	40	8	35	0	0	0	0
	point88	88	740	40	24	40	8	35	0	0	0	0
	point89	89	740	40	24	40	8	35	0	0	0	0
	point90	90	740	40	24	40	8	35	0	0	0	0
	point91	91										
Higuera NB	point147	147	244	40	12	40	8	35	0	0	0	0
	point118	118	244	40	12	40	8	35	0	0	0	0
	point117	117	244	40	12	40	8	35	0	0	0	0
	point116	116	244	40	12	40	8	35	0	0	0	0
	point115	115	244	40	12	40	8	35	0	0	0	0
	point114	114	244	40	12	40	8	35	0	0	0	0
	point113	113	244	40	12	40	8	35	0	0	0	0
	point112	112	244	40	12	40	8	35	0	0	0	0
	point111	111	244	40	12	40	8	35	0	0	0	0
	point110	110	244	40	12	40	8	35	0	0	0	0
	point109	109	244	40	12	40	8	35	0	0	0	0
	point108	108	244	40	12	40	8	35	0	0	0	0
	point107	107	244	40	12	40	8	35	0	0	0	0

	point106	106	244	40	12	40	8	35	0	0	0	0
	point105	105	244	40	12	40	8	35	0	0	0	0
	point104	104	244	40	12	40	8	35	0	0	0	0
	point103	103	244	40	12	40	8	35	0	0	0	0
	point102	102	244	40	12	40	8	35	0	0	0	0
	point101	101	244	40	12	40	8	35	0	0	0	0
	point100	100	244	40	12	40	8	35	0	0	0	0
	point99	99	244	40	12	40	8	35	0	0	0	0
	point98	98	244	40	12	40	8	35	0	0	0	0
	point97	97	244	40	12	40	8	35	0	0	0	0
	point96	96	244	40	12	40	8	35	0	0	0	0
	point95	95	244	40	12	40	8	35	0	0	0	0
	point94	94	244	40	12	40	8	35	0	0	0	0
	point93	93	244	40	12	40	8	35	0	0	0	0
	point92	92										
Higuera SB	point119	119	244	40	12	40	8	35	0	0	0	0
	point120	120	244	40	12	40	8	35	0	0	0	0
	point121	121	244	40	12	40	8	35	0	0	0	0
	point122	122	244	40	12	40	8	35	0	0	0	0
	point123	123	244	40	12	40	8	35	0	0	0	0
	point124	124	244	40	12	40	8	35	0	0	0	0
	point125	125	244	40	12	40	8	35	0	0	0	0
	point126	126	244	40	12	40	8	35	0	0	0	0
	point127	127	244	40	12	40	8	35	0	0	0	0
	point128	128	244	40	12	40	8	35	0	0	0	0
	point129	129	244	40	12	40	8	35	0	0	0	0
	point130	130	244	40	12	40	8	35	0	0	0	0
	point131	131	244	40	12	40	8	35	0	0	0	0
	point132	132	244	40	12	40	8	35	0	0	0	0
	point133	133	244	40	12	40	8	35	0	0	0	0
	point134	134	244	40	12	40	8	35	0	0	0	0
	point135	135	244	40	12	40	8	35	0	0	0	0
	point136	136	244	40	12	40	8	35	0	0	0	0
	point137	137	244	40	12	40	8	35	0	0	0	0
	point138	138	244	40	12	40	8	35	0	0	0	0

	point139	139	244	40	12	40	8	35	0	0	0	0
	point140	140	244	40	12	40	8	35	0	0	0	0
	point141	141	244	40	12	40	8	35	0	0	0	0
	point142	142	244	40	12	40	8	35	0	0	0	0
	point143	143	244	40	12	40	8	35	0	0	0	0
	point144	144	244	40	12	40	8	35	0	0	0	0
	point145	145	244	40	12	40	8	35	0	0	0	0
	point146	146										
US 101 NB 1	point238	238	1320	65	68	65	64	60	0	0	0	0
	point159	159	1320	65	68	65	64	60	0	0	0	0
	point158	158	1320	65	68	65	64	60	0	0	0	0
	point157	157	1320	65	68	65	64	60	0	0	0	0
	point156	156	1320	65	68	65	64	60	0	0	0	0
	point155	155	1320	65	68	65	64	60	0	0	0	0
	point154	154	1320	65	68	65	64	60	0	0	0	0
	point153	153	1320	65	68	65	64	60	0	0	0	0
	point152	152	1320	65	68	65	64	60	0	0	0	0
	point151	151	1320	65	68	65	64	60	0	0	0	0
	point150	150	1320	65	68	65	64	60	0	0	0	0
	point149	149	1320	65	68	65	64	60	0	0	0	0
	point148	148										
US 101 NB 2	point171	171	1320	65	68	65	64	60	0	0	0	0
	point170	170	1320	65	68	65	64	60	0	0	0	0
	point169	169	1320	65	68	65	64	60	0	0	0	0
	point168	168	1320	65	68	65	64	60	0	0	0	0
	point167	167	1320	65	68	65	64	60	0	0	0	0
	point166	166	1320	65	68	65	64	60	0	0	0	0
	point165	165	1320	65	68	65	64	60	0	0	0	0
	point164	164	1320	65	68	65	64	60	0	0	0	0
	point163	163	1320	65	68	65	64	60	0	0	0	0
	point162	162	1320	65	68	65	64	60	0	0	0	0
	point161	161	1320	65	68	65	64	60	0	0	0	0
	point160	160										
US 101 SB 1	point173	173	1780	65	52	65	64	60	0	0	0	0
	point174	174	1780	65	52	65	64	60	0	0	0	0

	point175	175	1780	65	52	65	64	60	0	0	0	0
	point176	176	1780	65	52	65	64	60	0	0	0	0
	point177	177	1780	65	52	65	64	60	0	0	0	0
	point178	178	1780	65	52	65	64	60	0	0	0	0
	point179	179	1780	65	52	65	64	60	0	0	0	0
	point180	180	1780	65	52	65	64	60	0	0	0	0
	point181	181	1780	65	52	65	64	60	0	0	0	0
	point182	182	1780	65	52	65	64	60	0	0	0	0
	point183	183	1780	65	52	65	64	60	0	0	0	0
	point184	184	1780	65	52	65	64	60	0	0	0	0
	point237	237										
US 101 SB 2	point186	186	1780	65	52	65	64	60	0	0	0	0
	point187	187	1780	65	52	65	64	60	0	0	0	0
	point188	188	1780	65	52	65	64	60	0	0	0	0
	point189	189	1780	65	52	65	64	60	0	0	0	0
	point190	190	1780	65	52	65	64	60	0	0	0	0
	point191	191	1780	65	52	65	64	60	0	0	0	0
	point192	192	1780	65	52	65	64	60	0	0	0	0
	point193	193	1780	65	52	65	64	60	0	0	0	0
	point194	194	1780	65	52	65	64	60	0	0	0	0
	point195	195	1780	65	52	65	64	60	0	0	0	0
	point196	196	1780	65	52	65	64	60	0	0	0	0
	point197	197										
US 101 On-Ramp	point211	211	0	0	0	0	0	0	0	0	0	0
	point210	210	0	0	0	0	0	0	0	0	0	0
	point209	209	0	0	0	0	0	0	0	0	0	0
	point208	208	0	0	0	0	0	0	0	0	0	0
	point207	207	0	0	0	0	0	0	0	0	0	0
	point206	206	0	0	0	0	0	0	0	0	0	0
	point205	205	0	0	0	0	0	0	0	0	0	0
	point204	204	0	0	0	0	0	0	0	0	0	0
	point203	203	0	0	0	0	0	0	0	0	0	0
	point202	202	0	0	0	0	0	0	0	0	0	0
	point201	201	0	0	0	0	0	0	0	0	0	0
	point200	200	0	0	0	0	0	0	0	0	0	0

	point199	199	0	0	0	0	0	0	0	0	0	0
	point198	198										
US 101 NB Off-Ramp	point213	213	432	45	32	45	8	40	0	0	0	0
	point214	214	432	45	32	45	8	40	0	0	0	0
	point215	215	432	45	32	45	8	40	0	0	0	0
	point216	216	432	45	32	45	8	40	0	0	0	0
	point217	217	432	45	32	45	8	40	0	0	0	0
	point221	221	432	45	32	45	8	40	0	0	0	0
	point222	222	432	45	32	45	8	40	0	0	0	0
	point223	223	432	45	32	45	8	40	0	0	0	0
	point224	224	432	45	32	45	8	40	0	0	0	0
	point225	225	432	45	32	45	8	40	0	0	0	0
	point226	226	432	45	32	45	8	40	0	0	0	0
	point227	227	432	45	32	45	8	40	0	0	0	0
	point228	228	432	45	32	45	8	40	0	0	0	0
	point229	229	432	45	32	45	8	40	0	0	0	0
	point230	230										
US 101 SB Off-Ramp	point236	236	0	0	0	0	0	0	0	0	0	0
	point235	235	0	0	0	0	0	0	0	0	0	0
	point234	234	0	0	0	0	0	0	0	0	0	0
	point233	233	0	0	0	0	0	0	0	0	0	0
	point232	232										

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2 September 2006
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 06

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	
M-6	6	1	5,761,873.5	2,285,273.8	109.80	5.00	0.00	66	12.0	8.0	Y

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2 September 2006
TNM 2.5

INPUT: TERRAIN LINES
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 06

Terrain Line Name	Points No.	Coordinates (ground) X ft	Y ft	Z ft
Los Oso Valley WB	40	5,762,477.0	2,285,082.2	117.20
	39	5,762,347.5	2,285,152.0	113.70
	38	5,762,225.0	2,285,186.0	111.90
	37	5,762,093.0	2,285,199.2	111.10
	36	5,761,961.5	2,285,212.2	110.10
	35	5,761,817.5	2,285,224.0	109.40
	34	5,761,685.0	2,285,238.0	108.80
	33	5,761,553.5	2,285,256.2	108.40
	32	5,761,436.5	2,285,289.8	108.60
	31	5,761,343.0	2,285,340.2	109.30
	30	5,761,255.5	2,285,404.0	110.80
	29	5,761,176.0	2,285,469.5	114.60
	28	5,761,108.0	2,285,552.5	120.20
	27	5,761,043.5	2,285,660.2	120.30
	26	5,760,995.5	2,285,775.8	126.10
	25	5,760,956.0	2,285,887.2	127.30
	24	5,760,917.5	2,285,997.0	129.80
	23	5,760,881.5	2,286,104.2	129.60
	22	5,760,835.5	2,286,242.2	127.40
	21	5,760,800.5	2,286,351.8	119.80
	20	5,760,754.5	2,286,488.8	112.10
	19	5,760,735.5	2,286,603.0	109.20
	18	5,760,700.0	2,286,744.0	108.30
	17	5,760,649.5	2,286,882.5	108.10

	16	5,760,601.5	2,287,001.8	110.20
	15	5,760,559.0	2,287,105.2	109.40
	14	5,760,506.0	2,287,222.2	111.80
	13	5,760,454.5	2,287,334.2	112.70
	12	5,760,398.0	2,287,440.5	112.10
	11	5,760,338.5	2,287,548.5	113.40
	10	5,760,273.5	2,287,659.2	115.30
	9	5,760,200.0	2,287,776.2	114.90
	8	5,760,129.0	2,287,887.0	115.40
	7	5,760,069.0	2,287,981.0	116.90
	6	5,760,000.5	2,288,084.8	117.60
	5	5,759,937.0	2,288,186.0	117.20
	4	5,759,869.5	2,288,284.5	117.20
	3	5,759,804.0	2,288,382.0	117.20
	2	5,759,747.5	2,288,466.2	117.20
	1	5,759,689.5	2,288,554.2	117.20
Los Oso Valley EB	80	5,762,455.0	2,285,023.5	117.20
	79	5,762,332.0	2,285,097.2	113.70
	78	5,762,216.5	2,285,132.0	111.90
	77	5,762,088.0	2,285,145.0	111.30
	76	5,761,956.5	2,285,155.5	110.10
	75	5,761,812.5	2,285,167.8	109.40
	74	5,761,679.5	2,285,178.8	108.80
	73	5,761,543.0	2,285,207.0	108.40
	72	5,761,422.5	2,285,260.0	108.60
	71	5,761,326.5	2,285,312.0	109.30
	70	5,761,236.5	2,285,373.0	110.80
	69	5,761,152.0	2,285,444.0	114.60
	68	5,761,078.0	2,285,523.0	120.20
	67	5,761,004.0	2,285,639.5	120.30
	66	5,760,959.5	2,285,762.5	126.10
	65	5,760,921.5	2,285,874.0	127.30
	64	5,760,883.0	2,285,983.5	129.80
	63	5,760,843.5	2,286,093.0	129.60
	62	5,760,795.5	2,286,231.8	127.40

	61	5,760,757.5	2,286,343.0	119.80
	60	5,760,704.5	2,286,471.8	112.10
	59	5,760,673.0	2,286,583.2	109.20
	58	5,760,626.0	2,286,717.0	108.30
	57	5,760,583.0	2,286,857.0	108.10
	56	5,760,541.0	2,286,979.0	110.20
	55	5,760,497.0	2,287,082.0	109.40
	54	5,760,441.0	2,287,194.0	111.80
	53	5,760,389.0	2,287,301.8	112.70
	52	5,760,335.0	2,287,409.0	112.10
	51	5,760,273.5	2,287,516.2	113.40
	50	5,760,209.0	2,287,621.2	115.30
	49	5,760,135.5	2,287,738.0	114.90
	48	5,760,064.5	2,287,848.8	115.40
	47	5,760,005.0	2,287,936.5	116.90
	46	5,759,933.0	2,288,037.5	117.60
	45	5,759,864.0	2,288,138.8	117.20
	44	5,759,793.0	2,288,237.5	117.20
	43	5,759,725.0	2,288,335.5	117.20
	42	5,759,668.5	2,288,419.8	117.20
	41	5,759,610.5	2,288,507.5	117.20
Higuera NB	110	5,761,764.5	2,283,719.0	118.90
	109	5,761,817.5	2,283,807.8	118.90
	108	5,761,870.0	2,283,897.8	118.90
	107	5,761,914.5	2,283,973.5	118.90
	106	5,761,960.5	2,284,054.8	118.90
	105	5,762,010.0	2,284,141.0	118.90
	104	5,762,065.0	2,284,233.0	118.90
	103	5,762,114.0	2,284,315.2	118.90
	102	5,762,165.5	2,284,405.0	118.90
	101	5,762,213.5	2,284,484.5	119.10
	100	5,762,268.5	2,284,576.5	119.40
	99	5,762,318.0	2,284,655.8	118.80
	98	5,762,374.0	2,284,747.8	118.30
	97	5,762,426.5	2,284,836.0	118.90

	96	5,762,471.5	2,284,915.5	117.90
	95	5,762,525.5	2,285,007.5	117.70
	94	5,762,569.0	2,285,087.8	117.80
	93	5,762,615.0	2,285,168.5	117.80
	92	5,762,662.5	2,285,250.8	117.50
	91	5,762,713.0	2,285,330.0	117.00
	90	5,762,773.0	2,285,423.5	117.70
	89	5,762,817.0	2,285,500.0	117.20
	88	5,762,862.5	2,285,588.5	117.30
	87	5,762,914.5	2,285,687.0	118.10
	86	5,762,976.0	2,285,802.2	117.70
	85	5,763,040.5	2,285,924.5	117.80
	84	5,763,095.5	2,286,030.2	117.80
	83	5,763,150.5	2,286,111.5	117.80
Higuera SB	139	5,761,733.5	2,283,737.5	118.90
	138	5,761,785.5	2,283,826.2	118.90
	137	5,761,839.5	2,283,918.2	118.90
	136	5,761,885.0	2,283,992.5	118.90
	135	5,761,931.0	2,284,072.8	118.90
	134	5,761,980.5	2,284,158.8	118.90
	133	5,762,035.0	2,284,251.8	118.90
	132	5,762,084.0	2,284,334.0	118.90
	131	5,762,135.5	2,284,424.0	118.90
	130	5,762,183.5	2,284,503.5	119.10
	129	5,762,235.0	2,284,595.0	119.40
	128	5,762,281.5	2,284,677.0	118.80
	127	5,762,333.0	2,284,772.0	118.30
	126	5,762,383.5	2,284,862.0	118.00
	125	5,762,427.5	2,284,942.0	117.90
	124	5,762,483.5	2,285,031.0	117.70
	123	5,762,527.0	2,285,111.0	117.80
	122	5,762,573.0	2,285,191.8	117.80
	121	5,762,624.0	2,285,276.2	117.50
	120	5,762,671.0	2,285,353.0	117.00
	119	5,762,726.5	2,285,451.0	117.70

	118	5,762,768.0	2,285,527.5	117.20
	117	5,762,813.5	2,285,616.2	117.30
	116	5,762,865.5	2,285,714.8	118.10
	115	5,762,927.0	2,285,829.8	117.70
	114	5,762,991.5	2,285,952.0	117.80
	113	5,763,046.5	2,286,058.0	117.80
	112	5,763,101.0	2,286,139.2	117.80
US 101 NB Off-Ramp	220	5,761,039.0	2,285,548.0	120.20
	219	5,760,990.0	2,285,500.5	121.60
	218	5,760,919.5	2,285,427.0	117.90
	217	5,760,854.5	2,285,357.2	114.30
	216	5,760,787.5	2,285,291.0	110.30
	215	5,760,725.0	2,285,222.2	108.50
	214	5,760,660.5	2,285,137.5	107.50
	213	5,760,605.5	2,285,041.5	106.40
	212	5,760,563.5	2,284,947.2	105.30
	211	5,760,533.0	2,284,846.5	104.00
	210	5,760,517.5	2,284,747.5	103.00
	209	5,760,505.5	2,284,641.2	102.50
	208	5,760,490.0	2,284,536.5	104.00
	207	5,760,480.5	2,284,450.2	105.00
	206	5,760,468.5	2,284,346.2	106.00
US 101 SB Off-Ramp	225	5,760,796.0	2,286,543.5	105.00
	224	5,760,904.5	2,286,587.2	107.00
	223	5,761,024.5	2,286,645.8	110.00
	222	5,761,120.0	2,286,707.2	111.00
	221	5,761,207.0	2,286,834.5	113.80
US 101 NB 1	238	5,760,423.5	2,283,770.0	115.00
	237	5,760,437.5	2,283,950.0	109.70
	236	5,760,446.5	2,284,089.2	108.50
	235	5,760,449.0	2,284,274.2	107.30
	234	5,760,457.0	2,284,457.5	105.00
	233	5,760,468.0	2,284,638.2	103.60
	232	5,760,479.5	2,284,804.5	102.00
	231	5,760,499.0	2,284,998.0	101.10

	230	5,760,535.5	2,285,170.0	101.40
	229	5,760,586.0	2,285,341.0	102.20
	228	5,760,654.5	2,285,515.0	105.00
	227	5,760,737.0	2,285,673.0	106.80
	226	5,760,821.5	2,285,835.0	105.00
US 101 NB 2	250	5,760,948.5	2,286,078.5	107.30
	249	5,761,054.5	2,286,276.2	109.20
	248	5,761,206.5	2,286,565.8	111.50
	247	5,761,343.0	2,286,827.0	115.00
	246	5,761,481.0	2,287,086.5	117.00
	245	5,761,612.0	2,287,339.5	119.00
	244	5,761,771.5	2,287,639.0	120.70
	243	5,761,936.5	2,287,950.0	123.70
	242	5,762,096.5	2,288,259.0	125.00
	241	5,762,241.5	2,288,531.0	125.00
	240	5,762,375.5	2,288,785.8	128.50
	239	5,762,516.5	2,289,056.0	130.00
US 101 SB 1	263	5,760,312.5	2,283,773.8	109.70
	262	5,760,332.0	2,283,954.5	109.60
	261	5,760,339.0	2,284,096.0	108.50
	260	5,760,344.5	2,284,281.5	106.70
	259	5,760,355.5	2,284,464.8	105.10
	258	5,760,364.0	2,284,648.8	103.60
	257	5,760,375.5	2,284,812.5	103.50
	256	5,760,393.5	2,285,012.0	103.60
	255	5,760,431.5	2,285,191.0	104.10
	254	5,760,486.5	2,285,377.0	105.30
	253	5,760,565.0	2,285,560.5	106.70
	252	5,760,646.0	2,285,721.5	106.80
	251	5,760,769.5	2,285,957.0	106.70
US 101 SB 2	275	5,760,886.5	2,286,177.8	108.40
	274	5,760,964.0	2,286,324.8	109.20
	273	5,761,116.0	2,286,614.2	111.50
	272	5,761,252.0	2,286,875.5	115.00
	271	5,761,390.0	2,287,135.0	117.00

	270	5,761,521.5	2,287,388.0	119.50
	269	5,761,681.0	2,287,687.5	120.70
	268	5,761,845.5	2,287,998.5	123.60
	267	5,762,005.5	2,288,307.5	125.00
	266	5,762,150.5	2,288,579.5	125.00
	265	5,762,284.5	2,288,834.2	128.50
	264	5,762,430.5	2,289,102.0	130.00

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 06
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					With Barrier			
				LAeq1h		Increase over existing		Type	Calculated	Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n Sub'l Inc	Impact	LAeq1h	Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
M-6	6	1	0.0	63.5	66	63.5	12	----	63.5	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction		
		Min	Avg	Max
		dB	dB	dB
All Selected	1	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

CALIBRATION M-7

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 07

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

Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Los Osos Valley WB	12.0	point51	51	5,762,472.0	2,285,071.2	117.20				Average	
		point50	50	5,762,344.5	2,285,142.2	113.70				Average	
		point49	49	5,762,223.5	2,285,174.5	111.90				Average	
		point48	48	5,762,092.0	2,285,186.8	111.10				Average	
		point47	47	5,761,960.5	2,285,198.8	110.10				Average	
		point46	46	5,761,816.5	2,285,211.0	109.40				Average	
		point45	45	5,761,684.5	2,285,224.8	108.80				Average	
		point44	44	5,761,549.5	2,285,241.5	108.40				Average	
		point43	43	5,761,433.0	2,285,282.5	108.60				Average	
		point42	42	5,761,339.0	2,285,333.2	109.30				Average	
		point41	41	5,761,250.0	2,285,395.8	110.80				Average	
		point40	40	5,761,169.0	2,285,462.0	114.60				Average	
		point39	39	5,761,095.5	2,285,544.0	120.20				Average	
		point38	38	5,761,030.5	2,285,654.8	120.30				Average	
		point37	37	5,760,982.5	2,285,770.2	126.10				Average	
		point36	36	5,760,947.5	2,285,882.2	127.30				Average	
		point35	35	5,760,909.0	2,285,992.0	129.80				Average	
		point34	34	5,760,871.5	2,286,100.2	129.60				Average	
		point33	33	5,760,822.5	2,286,238.8	127.40				Average	
		point32	32	5,760,787.5	2,286,348.5	119.80				Average	
		point31	31	5,760,743.0	2,286,483.2	112.10				Average	
		point30	30	5,760,723.5	2,286,597.5	109.20				Average	
		point29	29	5,760,676.5	2,286,732.5	108.30				Average	
		point28	28	5,760,626.0	2,286,871.2	108.10				Average	
		point27	27	5,760,582.5	2,286,991.5	110.20				Average	

		point26	26	5,760,540.5	2,287,095.0	109.40				Average	
		point25	25	5,760,487.5	2,287,212.0	111.80				Average	
		point24	24	5,760,435.5	2,287,324.0	112.70				Average	
		point23	23	5,760,379.5	2,287,430.5	112.10				Average	
		point22	22	5,760,320.0	2,287,538.2	113.40				Average	
		point21	21	5,760,255.0	2,287,649.0	115.30				Average	
		point20	20	5,760,181.5	2,287,766.0	114.90				Average	
		point19	19	5,760,110.5	2,287,876.8	115.40				Average	
		point18	18	5,760,050.5	2,287,970.8	116.90				Average	
		point17	17	5,759,980.5	2,288,071.8	117.60				Average	
		point16	16	5,759,916.5	2,288,173.0	117.20				Average	
		point15	15	5,759,849.0	2,288,271.8	117.20				Average	
		point14	14	5,759,785.5	2,288,371.8	117.20				Average	
		point13	13	5,759,728.5	2,288,456.0	117.20				Average	
		point12	12	5,759,671.0	2,288,544.0	117.20					
Los Osos Valley EB	12.0	point52	52	5,759,628.0	2,288,520.0	117.20				Average	
		point53	53	5,759,686.0	2,288,432.2	117.20				Average	
		point54	54	5,759,742.5	2,288,348.0	117.20				Average	
		point55	55	5,759,810.5	2,288,250.0	117.20				Average	
		point56	56	5,759,881.5	2,288,151.2	117.20				Average	
		point57	57	5,759,950.5	2,288,050.0	117.60				Average	
		point58	58	5,760,022.0	2,287,949.0	116.90				Average	
		point59	59	5,760,082.0	2,287,861.2	115.40				Average	
		point60	60	5,760,153.0	2,287,750.5	114.90				Average	
		point61	61	5,760,226.5	2,287,633.8	115.30				Average	
		point62	62	5,760,288.5	2,287,524.2	113.40				Average	
		point63	63	5,760,350.0	2,287,417.0	112.10				Average	
		point64	64	5,760,404.0	2,287,310.0	112.70				Average	
		point65	65	5,760,456.0	2,287,202.0	111.80				Average	
		point66	66	5,760,509.0	2,287,085.2	109.40				Average	
		point67	67	5,760,552.5	2,286,982.2	110.20				Average	
		point68	68	5,760,595.0	2,286,860.2	108.10				Average	
		point69	69	5,760,640.5	2,286,721.0	108.30				Average	
		point70	70	5,760,687.5	2,286,587.0	109.20				Average	
		point71	71	5,760,719.0	2,286,475.5	112.10				Average	
		point72	72	5,760,769.0	2,286,346.0	119.80				Average	
		point73	73	5,760,807.0	2,286,234.5	127.40				Average	
		point74	74	5,760,855.5	2,286,094.8	129.60				Average	
		point75	75	5,760,893.0	2,285,986.2	129.80				Average	

		point76	76	5,760,931.5	2,285,876.8	127.30				Average	
		point77	77	5,760,969.0	2,285,765.5	126.10				Average	
		point78	78	5,761,017.5	2,285,645.5	120.30				Average	
		point79	79	5,761,084.5	2,285,532.0	120.20				Average	
		point80	80	5,761,158.0	2,285,450.0	114.60				Average	
		point81	81	5,761,240.5	2,285,379.0	110.80				Average	
		point82	82	5,761,330.0	2,285,316.2	109.30				Average	
		point83	83	5,761,424.0	2,285,265.8	108.60				Average	
		point84	84	5,761,545.5	2,285,222.0	108.40				Average	
		point85	85	5,761,681.0	2,285,191.8	108.80				Average	
		point86	86	5,761,813.0	2,285,178.0	109.40				Average	
		point87	87	5,761,957.0	2,285,165.8	110.10				Average	
		point88	88	5,762,088.5	2,285,153.8	111.30				Average	
		point89	89	5,762,217.0	2,285,142.2	111.90				Average	
		point90	90	5,762,335.0	2,285,106.5	113.70				Average	
		point91	91	5,762,461.5	2,285,038.5	117.20					
Higuera NB	24.0	point147	147	5,761,753.0	2,283,727.0	118.90				Average	
		point118	118	5,761,806.5	2,283,815.8	118.90				Average	
		point117	117	5,761,858.5	2,283,905.8	118.90				Average	
		point116	116	5,761,903.5	2,283,981.5	118.90				Average	
		point115	115	5,761,949.5	2,284,062.8	118.90				Average	
		point114	114	5,761,999.0	2,284,148.8	118.90				Average	
		point113	113	5,762,054.0	2,284,240.8	118.90				Average	
		point112	112	5,762,103.0	2,284,323.2	118.90				Average	
		point111	111	5,762,154.5	2,284,413.0	118.90				Average	
		point110	110	5,762,202.5	2,284,492.5	119.10				Average	
		point109	109	5,762,257.5	2,284,584.5	119.40				Average	
		point108	108	5,762,307.0	2,284,663.8	118.80				Average	
		point107	107	5,762,362.5	2,284,755.8	118.30				Average	
		point106	106	5,762,415.5	2,284,844.0	118.90				Average	
		point105	105	5,762,460.0	2,284,923.5	117.90				Average	
		point104	104	5,762,514.5	2,285,015.5	117.70				Average	
		point103	103	5,762,558.0	2,285,095.8	117.80				Average	
		point102	102	5,762,604.0	2,285,176.5	117.80				Average	
		point101	101	5,762,651.0	2,285,258.8	117.50				Average	
		point100	100	5,762,701.5	2,285,337.8	117.00				Average	
		point99	99	5,762,762.0	2,285,431.5	117.70				Average	
		point98	98	5,762,806.0	2,285,508.0	117.20				Average	
		point97	97	5,762,851.0	2,285,596.5	117.30				Average	

		point96	96	5,762,903.5	2,285,695.0	118.10				Average	
		point95	95	5,762,965.0	2,285,810.2	117.70				Average	
		point94	94	5,763,029.5	2,285,932.2	117.80				Average	
		point93	93	5,763,084.0	2,286,038.2	117.80				Average	
		point92	92	5,763,139.0	2,286,119.5	117.80					
Higuera SB	24.0	point119	119	5,763,111.5	2,286,133.5	117.80				Average	
		point120	120	5,763,057.0	2,286,052.2	117.80				Average	
		point121	121	5,763,002.0	2,285,946.2	117.80				Average	
		point122	122	5,762,937.5	2,285,824.2	117.70				Average	
		point123	123	5,762,876.0	2,285,709.0	118.10				Average	
		point124	124	5,762,824.0	2,285,610.5	117.30				Average	
		point125	125	5,762,778.5	2,285,521.8	117.20				Average	
		point126	126	5,762,736.5	2,285,445.5	117.70				Average	
		point127	127	5,762,681.0	2,285,347.5	117.00				Average	
		point128	128	5,762,634.5	2,285,270.5	117.50				Average	
		point129	129	5,762,583.5	2,285,186.0	117.80				Average	
		point130	130	5,762,537.5	2,285,105.5	117.80				Average	
		point131	131	5,762,494.0	2,285,025.2	117.70				Average	
		point132	132	5,762,438.0	2,284,936.5	117.90				Average	
		point133	133	5,762,394.0	2,284,856.2	118.00				Average	
		point134	134	5,762,343.5	2,284,766.5	118.30				Average	
		point135	135	5,762,291.5	2,284,671.2	118.80				Average	
		point136	136	5,762,245.5	2,284,589.5	119.40				Average	
		point137	137	5,762,194.0	2,284,498.0	119.10				Average	
		point138	138	5,762,146.0	2,284,418.5	118.90				Average	
		point139	139	5,762,094.5	2,284,328.5	118.90				Average	
		point140	140	5,762,045.5	2,284,246.2	118.90				Average	
		point141	141	5,761,991.0	2,284,153.2	118.90				Average	
		point142	142	5,761,941.5	2,284,067.0	118.90				Average	
		point143	143	5,761,895.0	2,283,987.0	118.90				Average	
		point144	144	5,761,850.0	2,283,912.8	118.90				Average	
		point145	145	5,761,795.5	2,283,820.8	118.90				Average	
		point146	146	5,761,744.0	2,283,732.0	118.90					
US 101 NB 1	24.0	point238	238	5,760,404.5	2,283,771.2	115.00				Average	
		point159	159	5,760,418.5	2,283,950.0	109.70				Average	
		point158	158	5,760,430.0	2,284,090.5	108.50				Average	
		point157	157	5,760,435.5	2,284,276.0	107.30				Average	
		point156	156	5,760,447.0	2,284,457.2	105.00				Average	
		point155	155	5,760,455.0	2,284,641.2	103.60				Average	

		point154	154	5,760,463.5	2,284,804.5	102.00				Average	
		point153	153	5,760,484.0	2,285,000.2	101.10				Average	
		point152	152	5,760,519.0	2,285,172.5	101.40				Average	
		point151	151	5,760,570.5	2,285,349.0	102.20				Average	
		point150	150	5,760,639.0	2,285,520.5	105.00				Average	
		point149	149	5,760,720.0	2,285,681.8	106.80				Average	
		point148	148	5,760,805.0	2,285,843.5	105.00					
US 101 NB 2	24.0	point171	171	5,760,932.0	2,286,087.2	107.30				Average	
		point170	170	5,761,038.0	2,286,285.0	109.20				Average	
		point169	169	5,761,190.0	2,286,574.5	111.50				Average	
		point168	168	5,761,326.5	2,286,835.5	115.00				Average	
		point167	167	5,761,464.5	2,287,095.2	117.00				Average	
		point166	166	5,761,595.5	2,287,348.2	119.00				Average	
		point165	165	5,761,755.0	2,287,647.8	120.70				Average	
		point164	164	5,761,919.5	2,287,958.8	123.70				Average	
		point163	163	5,762,079.5	2,288,267.8	125.00				Average	
		point162	162	5,762,225.0	2,288,539.8	125.00				Average	
		point161	161	5,762,358.5	2,288,794.5	128.50				Average	
		point160	160	5,762,500.0	2,289,064.8	130.00					
US 101 SB 1	24.0	point173	173	5,760,788.0	2,285,947.2	106.70				Average	
		point174	174	5,760,664.5	2,285,712.0	106.80				Average	
		point175	175	5,760,583.5	2,285,550.8	106.70				Average	
		point176	176	5,760,505.0	2,285,367.5	105.30				Average	
		point177	177	5,760,449.0	2,285,185.8	104.10				Average	
		point178	178	5,760,412.5	2,285,010.0	103.60				Average	
		point179	179	5,760,394.5	2,284,810.5	103.50				Average	
		point180	180	5,760,386.5	2,284,647.5	103.60				Average	
		point181	181	5,760,378.0	2,284,463.2	105.10				Average	
		point182	182	5,760,364.5	2,284,280.8	106.70				Average	
		point183	183	5,760,358.5	2,284,095.2	108.50				Average	
		point184	184	5,760,347.5	2,283,952.2	109.60				Average	
		point237	237	5,760,335.5	2,283,772.5	109.70					
US 101 SB 2	24.0	point186	186	5,762,449.5	2,289,092.5	130.00				Average	
		point187	187	5,762,303.0	2,288,824.8	128.50				Average	
		point188	188	5,762,169.5	2,288,570.0	125.00				Average	
		point189	189	5,762,024.0	2,288,297.8	125.00				Average	
		point190	190	5,761,864.0	2,287,989.0	123.60				Average	
		point191	191	5,761,699.5	2,287,678.0	120.70				Average	
		point192	192	5,761,540.0	2,287,378.5	119.50				Average	

		point193	193	5,761,409.0	2,287,125.2	117.00				Average	
		point194	194	5,761,271.0	2,286,865.8	115.00				Average	
		point195	195	5,761,134.5	2,286,604.5	111.50				Average	
		point196	196	5,760,982.5	2,286,315.2	109.20				Average	
		point197	197	5,760,905.5	2,286,168.0	108.40					
US 101 On-Ramp	12.0	point211	211	5,761,017.5	2,285,577.0	122.40				Average	
		point210	210	5,760,968.5	2,285,523.0	122.10				Average	
		point209	209	5,760,914.0	2,285,466.2	118.00				Average	
		point208	208	5,760,862.5	2,285,419.5	114.60				Average	
		point207	207	5,760,802.0	2,285,393.8	113.30				Average	
		point206	206	5,760,744.5	2,285,404.2	107.90				Average	
		point205	205	5,760,707.5	2,285,431.5	104.70				Average	
		point204	204	5,760,685.0	2,285,478.2	104.50				Average	
		point203	203	5,760,685.0	2,285,529.8	103.40				Average	
		point202	202	5,760,701.5	2,285,587.2	103.40				Average	
		point201	201	5,760,727.5	2,285,642.2	102.50				Average	
		point200	200	5,760,758.5	2,285,705.0	104.50				Average	
		point199	199	5,760,785.0	2,285,760.2	104.80				Average	
		point198	198	5,760,813.5	2,285,816.2	105.30					
US 101 NB Off-Ramp	12.0	point213	213	5,760,460.0	2,284,353.0	106.00				Average	
		point214	214	5,760,472.0	2,284,457.0	105.00				Average	
		point215	215	5,760,481.5	2,284,543.2	104.00				Average	
		point216	216	5,760,496.5	2,284,648.0	102.50				Average	
		point217	217	5,760,508.5	2,284,754.2	103.00				Average	
		point221	221	5,760,524.0	2,284,853.2	104.00				Average	
		point222	222	5,760,555.0	2,284,954.0	105.30				Average	
		point223	223	5,760,596.5	2,285,048.5	106.40				Average	
		point224	224	5,760,651.5	2,285,144.5	107.50				Average	
		point225	225	5,760,716.5	2,285,229.0	108.50				Average	
		point226	226	5,760,779.0	2,285,297.8	110.30				Average	
		point227	227	5,760,846.0	2,285,364.2	114.30				Average	
		point228	228	5,760,910.5	2,285,433.8	117.90				Average	
		point229	229	5,760,975.5	2,285,513.5	121.60				Average	
		point230	230	5,761,027.0	2,285,565.0	120.20					
US 101 SB Off-Ramp	12.0	point236	236	5,760,801.5	2,286,530.5	105.00				Average	
		point235	235	5,760,910.0	2,286,574.0	107.00				Average	
		point234	234	5,761,030.0	2,286,632.5	110.00				Average	
		point233	233	5,761,124.0	2,286,701.8	111.00				Average	
		point232	232	5,761,216.5	2,286,829.5	113.80					

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 07

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
Los Osos Valley WB	point51	51	636	40	36	40	0	0	0	0	0	0
	point50	50	636	40	36	40	0	0	0	0	0	0
	point49	49	636	40	36	40	0	0	0	0	0	0
	point48	48	636	40	36	40	0	0	0	0	0	0
	point47	47	636	40	36	40	0	0	0	0	0	0
	point46	46	636	40	36	40	0	0	0	0	0	0
	point45	45	636	40	36	40	0	0	0	0	0	0
	point44	44	636	40	36	40	0	0	0	0	0	0
	point43	43	636	40	36	40	0	0	0	0	0	0
	point42	42	636	40	36	40	0	0	0	0	0	0
	point41	41	636	40	36	40	0	0	0	0	0	0
	point40	40	636	40	36	40	0	0	0	0	0	0
	point39	39	636	40	36	40	0	0	0	0	0	0
	point38	38	636	40	36	40	0	0	0	0	0	0
	point37	37	636	40	36	40	0	0	0	0	0	0
	point36	36	636	40	36	40	0	0	0	0	0	0
	point35	35	636	40	36	40	0	0	0	0	0	0
	point34	34	636	40	36	40	0	0	0	0	0	0
	point33	33	636	40	36	40	0	0	0	0	0	0
	point32	32	636	40	36	40	0	0	0	0	0	0
	point31	31	636	40	36	40	0	0	0	0	0	0
	point30	30	636	40	36	40	0	0	0	0	0	0
	point29	29	636	40	36	40	0	0	0	0	0	0

	point28	28	636	40	36	40	0	0	0	0	0	0
	point27	27	636	40	36	40	0	0	0	0	0	0
	point26	26	636	40	36	40	0	0	0	0	0	0
	point25	25	636	40	36	40	0	0	0	0	0	0
	point24	24	636	40	36	40	0	0	0	0	0	0
	point23	23	636	40	36	40	0	0	0	0	0	0
	point22	22	636	40	36	40	0	0	0	0	0	0
	point21	21	636	40	36	40	0	0	0	0	0	0
	point20	20	636	40	36	40	0	0	0	0	0	0
	point19	19	636	40	36	40	0	0	0	0	0	0
	point18	18	636	40	36	40	0	0	0	0	0	0
	point17	17	636	40	36	40	0	0	0	0	0	0
	point16	16	636	40	36	40	0	0	0	0	0	0
	point15	15	636	40	36	40	0	0	0	0	0	0
	point14	14	636	40	36	40	0	0	0	0	0	0
	point13	13	636	40	36	40	0	0	0	0	0	0
	point12	12										
Los Osos Valley EB	point52	52	756	40	36	40	12	35	0	0	0	0
	point53	53	756	40	36	40	12	35	0	0	0	0
	point54	54	756	40	36	40	12	35	0	0	0	0
	point55	55	756	40	36	40	12	35	0	0	0	0
	point56	56	756	40	36	40	12	35	0	0	0	0
	point57	57	756	40	36	40	12	35	0	0	0	0
	point58	58	756	40	36	40	12	35	0	0	0	0
	point59	59	756	40	36	40	12	35	0	0	0	0
	point60	60	756	40	36	40	12	35	0	0	0	0
	point61	61	756	40	36	40	12	35	0	0	0	0
	point62	62	756	40	36	40	12	35	0	0	0	0
	point63	63	756	40	36	40	12	35	0	0	0	0
	point64	64	756	40	36	40	12	35	0	0	0	0
	point65	65	756	40	36	40	12	35	0	0	0	0
	point66	66	756	40	36	40	12	35	0	0	0	0
	point67	67	756	40	36	40	12	35	0	0	0	0
	point68	68	756	40	36	40	12	35	0	0	0	0
	point69	69	756	40	36	40	12	35	0	0	0	0

	point70	70	756	40	36	40	12	35	0	0	0	0
	point71	71	756	40	36	40	12	35	0	0	0	0
	point72	72	756	40	36	40	12	35	0	0	0	0
	point73	73	756	40	36	40	12	35	0	0	0	0
	point74	74	756	40	36	40	12	35	0	0	0	0
	point75	75	756	40	36	40	12	35	0	0	0	0
	point76	76	756	40	36	40	12	35	0	0	0	0
	point77	77	756	40	36	40	12	35	0	0	0	0
	point78	78	756	40	36	40	12	35	0	0	0	0
	point79	79	756	40	36	40	12	35	0	0	0	0
	point80	80	756	40	36	40	12	35	0	0	0	0
	point81	81	756	40	36	40	12	35	0	0	0	0
	point82	82	756	40	36	40	12	35	0	0	0	0
	point83	83	756	40	36	40	12	35	0	0	0	0
	point84	84	756	40	36	40	12	35	0	0	0	0
	point85	85	756	40	36	40	12	35	0	0	0	0
	point86	86	756	40	36	40	12	35	0	0	0	0
	point87	87	756	40	36	40	12	35	0	0	0	0
	point88	88	756	40	36	40	12	35	0	0	0	0
	point89	89	756	40	36	40	12	35	0	0	0	0
	point90	90	756	40	36	40	12	35	0	0	0	0
	point91	91										
Higuera NB	point147	147	244	40	12	40	8	35	0	0	0	0
	point118	118	244	40	12	40	8	35	0	0	0	0
	point117	117	244	40	12	40	8	35	0	0	0	0
	point116	116	244	40	12	40	8	35	0	0	0	0
	point115	115	244	40	12	40	8	35	0	0	0	0
	point114	114	244	40	12	40	8	35	0	0	0	0
	point113	113	244	40	12	40	8	35	0	0	0	0
	point112	112	244	40	12	40	8	35	0	0	0	0
	point111	111	244	40	12	40	8	35	0	0	0	0
	point110	110	244	40	12	40	8	35	0	0	0	0
	point109	109	244	40	12	40	8	35	0	0	0	0
	point108	108	244	40	12	40	8	35	0	0	0	0
	point107	107	244	40	12	40	8	35	0	0	0	0

	point106	106	244	40	12	40	8	35	0	0	0	0
	point105	105	244	40	12	40	8	35	0	0	0	0
	point104	104	244	40	12	40	8	35	0	0	0	0
	point103	103	244	40	12	40	8	35	0	0	0	0
	point102	102	244	40	12	40	8	35	0	0	0	0
	point101	101	244	40	12	40	8	35	0	0	0	0
	point100	100	244	40	12	40	8	35	0	0	0	0
	point99	99	244	40	12	40	8	35	0	0	0	0
	point98	98	244	40	12	40	8	35	0	0	0	0
	point97	97	244	40	12	40	8	35	0	0	0	0
	point96	96	244	40	12	40	8	35	0	0	0	0
	point95	95	244	40	12	40	8	35	0	0	0	0
	point94	94	244	40	12	40	8	35	0	0	0	0
	point93	93	244	40	12	40	8	35	0	0	0	0
	point92	92										
Higuera SB	point119	119	244	40	12	40	8	35	0	0	0	0
	point120	120	244	40	12	40	8	35	0	0	0	0
	point121	121	244	40	12	40	8	35	0	0	0	0
	point122	122	244	40	12	40	8	35	0	0	0	0
	point123	123	244	40	12	40	8	35	0	0	0	0
	point124	124	244	40	12	40	8	35	0	0	0	0
	point125	125	244	40	12	40	8	35	0	0	0	0
	point126	126	244	40	12	40	8	35	0	0	0	0
	point127	127	244	40	12	40	8	35	0	0	0	0
	point128	128	244	40	12	40	8	35	0	0	0	0
	point129	129	244	40	12	40	8	35	0	0	0	0
	point130	130	244	40	12	40	8	35	0	0	0	0
	point131	131	244	40	12	40	8	35	0	0	0	0
	point132	132	244	40	12	40	8	35	0	0	0	0
	point133	133	244	40	12	40	8	35	0	0	0	0
	point134	134	244	40	12	40	8	35	0	0	0	0
	point135	135	244	40	12	40	8	35	0	0	0	0
	point136	136	244	40	12	40	8	35	0	0	0	0
	point137	137	244	40	12	40	8	35	0	0	0	0
	point138	138	244	40	12	40	8	35	0	0	0	0

	point139	139	244	40	12	40	8	35	0	0	0	0
	point140	140	244	40	12	40	8	35	0	0	0	0
	point141	141	244	40	12	40	8	35	0	0	0	0
	point142	142	244	40	12	40	8	35	0	0	0	0
	point143	143	244	40	12	40	8	35	0	0	0	0
	point144	144	244	40	12	40	8	35	0	0	0	0
	point145	145	244	40	12	40	8	35	0	0	0	0
	point146	146										
US 101 NB 1	point238	238	1368	65	52	65	60	60	0	0	0	0
	point159	159	1368	65	52	65	60	60	0	0	0	0
	point158	158	1368	65	52	65	60	60	0	0	0	0
	point157	157	1368	65	52	65	60	60	0	0	0	0
	point156	156	1368	65	52	65	60	60	0	0	0	0
	point155	155	1368	65	52	65	60	60	0	0	0	0
	point154	154	1368	65	52	65	60	60	0	0	0	0
	point153	153	1368	65	52	65	60	60	0	0	0	0
	point152	152	1368	65	52	65	60	60	0	0	0	0
	point151	151	1368	65	52	65	60	60	0	0	0	0
	point150	150	1368	65	52	65	60	60	0	0	0	0
	point149	149	1368	65	52	65	60	60	0	0	0	0
	point148	148										
US 101 NB 2	point171	171	1368	65	52	65	60	60	0	0	0	0
	point170	170	1368	65	52	65	60	60	0	0	0	0
	point169	169	1368	65	52	65	60	60	0	0	0	0
	point168	168	1368	65	52	65	60	60	0	0	0	0
	point167	167	1368	65	52	65	60	60	0	0	0	0
	point166	166	1368	65	52	65	60	60	0	0	0	0
	point165	165	1368	65	52	65	60	60	0	0	0	0
	point164	164	1368	65	52	65	60	60	0	0	0	0
	point163	163	1368	65	52	65	60	60	0	0	0	0
	point162	162	1368	65	52	65	60	60	0	0	0	0
	point161	161	1368	65	52	65	60	60	0	0	0	0
	point160	160										
US 101 SB 1	point173	173	1900	65	52	65	60	60	0	0	0	0
	point174	174	1900	65	52	65	60	60	0	0	0	0

	point175	175	1900	65	52	65	60	60	0	0	0	0
	point176	176	1900	65	52	65	60	60	0	0	0	0
	point177	177	1900	65	52	65	60	60	0	0	0	0
	point178	178	1900	65	52	65	60	60	0	0	0	0
	point179	179	1900	65	52	65	60	60	0	0	0	0
	point180	180	1900	65	52	65	60	60	0	0	0	0
	point181	181	1900	65	52	65	60	60	0	0	0	0
	point182	182	1900	65	52	65	60	60	0	0	0	0
	point183	183	1900	65	52	65	60	60	0	0	0	0
	point184	184	1900	65	52	65	60	60	0	0	0	0
	point237	237										
US 101 SB 2	point186	186	1900	65	52	65	60	60	0	0	0	0
	point187	187	1900	65	52	65	60	60	0	0	0	0
	point188	188	1900	65	52	65	60	60	0	0	0	0
	point189	189	1900	65	52	65	60	60	0	0	0	0
	point190	190	1900	65	52	65	60	60	0	0	0	0
	point191	191	1900	65	52	65	60	60	0	0	0	0
	point192	192	1900	65	52	65	60	60	0	0	0	0
	point193	193	1900	65	52	65	60	60	0	0	0	0
	point194	194	1900	65	52	65	60	60	0	0	0	0
	point195	195	1900	65	52	65	60	60	0	0	0	0
	point196	196	1900	65	52	65	60	60	0	0	0	0
	point197	197										
US 101 On-Ramp	point211	211	0	0	0	0	0	0	0	0	0	0
	point210	210	0	0	0	0	0	0	0	0	0	0
	point209	209	0	0	0	0	0	0	0	0	0	0
	point208	208	0	0	0	0	0	0	0	0	0	0
	point207	207	0	0	0	0	0	0	0	0	0	0
	point206	206	0	0	0	0	0	0	0	0	0	0
	point205	205	0	0	0	0	0	0	0	0	0	0
	point204	204	0	0	0	0	0	0	0	0	0	0
	point203	203	0	0	0	0	0	0	0	0	0	0
	point202	202	0	0	0	0	0	0	0	0	0	0
	point201	201	0	0	0	0	0	0	0	0	0	0
	point200	200	0	0	0	0	0	0	0	0	0	0

	point199	199	0	0	0	0	0	0	0	0	0	0
	point198	198										
US 101 NB Off-Ramp	point213	213	376	45	24	45	12	40	0	0	0	0
	point214	214	376	45	24	45	12	40	0	0	0	0
	point215	215	376	45	24	45	12	40	0	0	0	0
	point216	216	376	45	24	45	12	40	0	0	0	0
	point217	217	376	45	24	45	12	40	0	0	0	0
	point221	221	376	45	24	45	12	40	0	0	0	0
	point222	222	376	45	24	45	12	40	0	0	0	0
	point223	223	376	45	24	45	12	40	0	0	0	0
	point224	224	376	45	24	45	12	40	0	0	0	0
	point225	225	376	45	24	45	12	40	0	0	0	0
	point226	226	376	45	24	45	12	40	0	0	0	0
	point227	227	376	45	24	45	12	40	0	0	0	0
	point228	228	376	45	24	45	12	40	0	0	0	0
	point229	229	376	45	24	45	12	40	0	0	0	0
	point230	230										
US 101 SB Off-Ramp	point236	236	0	0	0	0	0	0	0	0	0	0
	point235	235	0	0	0	0	0	0	0	0	0	0
	point234	234	0	0	0	0	0	0	0	0	0	0
	point233	233	0	0	0	0	0	0	0	0	0	0
	point232	232										

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 07

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	
M-7	7	1	5,762,200.5	2,285,240.8	111.50	5.00	0.00	66	12.0	8.0	Y

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: TERRAIN LINES
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 07

Terrain Line Name	Points No.	Coordinates (ground) X ft	Y ft	Z ft
Los Oso Valley WB	40	5,762,477.0	2,285,082.2	117.20
	39	5,762,347.5	2,285,152.0	113.70
	38	5,762,225.0	2,285,186.0	111.90
	37	5,762,093.0	2,285,199.2	111.10
	36	5,761,961.5	2,285,212.2	110.10
	35	5,761,817.5	2,285,224.0	109.40
	34	5,761,685.0	2,285,238.0	108.80
	33	5,761,553.5	2,285,256.2	108.40
	32	5,761,436.5	2,285,289.8	108.60
	31	5,761,343.0	2,285,340.2	109.30
	30	5,761,255.5	2,285,404.0	110.80
	29	5,761,176.0	2,285,469.5	114.60
	28	5,761,108.0	2,285,552.5	120.20
	27	5,761,043.5	2,285,660.2	120.30
	26	5,760,995.5	2,285,775.8	126.10
	25	5,760,956.0	2,285,887.2	127.30
	24	5,760,917.5	2,285,997.0	129.80
	23	5,760,881.5	2,286,104.2	129.60
	22	5,760,835.5	2,286,242.2	127.40
	21	5,760,800.5	2,286,351.8	119.80
	20	5,760,754.5	2,286,488.8	112.10
	19	5,760,735.5	2,286,603.0	109.20
	18	5,760,700.0	2,286,744.0	108.30
	17	5,760,649.5	2,286,882.5	108.10

	16	5,760,601.5	2,287,001.8	110.20
	15	5,760,559.0	2,287,105.2	109.40
	14	5,760,506.0	2,287,222.2	111.80
	13	5,760,454.5	2,287,334.2	112.70
	12	5,760,398.0	2,287,440.5	112.10
	11	5,760,338.5	2,287,548.5	113.40
	10	5,760,273.5	2,287,659.2	115.30
	9	5,760,200.0	2,287,776.2	114.90
	8	5,760,129.0	2,287,887.0	115.40
	7	5,760,069.0	2,287,981.0	116.90
	6	5,760,000.5	2,288,084.8	117.60
	5	5,759,937.0	2,288,186.0	117.20
	4	5,759,869.5	2,288,284.5	117.20
	3	5,759,804.0	2,288,382.0	117.20
	2	5,759,747.5	2,288,466.2	117.20
	1	5,759,689.5	2,288,554.2	117.20
Los Oso Valley EB	80	5,762,455.0	2,285,023.5	117.20
	79	5,762,332.0	2,285,097.2	113.70
	78	5,762,216.5	2,285,132.0	111.90
	77	5,762,088.0	2,285,145.0	111.30
	76	5,761,956.5	2,285,155.5	110.10
	75	5,761,812.5	2,285,167.8	109.40
	74	5,761,679.5	2,285,178.8	108.80
	73	5,761,543.0	2,285,207.0	108.40
	72	5,761,422.5	2,285,260.0	108.60
	71	5,761,326.5	2,285,312.0	109.30
	70	5,761,236.5	2,285,373.0	110.80
	69	5,761,152.0	2,285,444.0	114.60
	68	5,761,078.0	2,285,523.0	120.20
	67	5,761,004.0	2,285,639.5	120.30
	66	5,760,959.5	2,285,762.5	126.10
	65	5,760,921.5	2,285,874.0	127.30
	64	5,760,883.0	2,285,983.5	129.80
	63	5,760,843.5	2,286,093.0	129.60
	62	5,760,795.5	2,286,231.8	127.40

	61	5,760,757.5	2,286,343.0	119.80
	60	5,760,704.5	2,286,471.8	112.10
	59	5,760,673.0	2,286,583.2	109.20
	58	5,760,626.0	2,286,717.0	108.30
	57	5,760,583.0	2,286,857.0	108.10
	56	5,760,541.0	2,286,979.0	110.20
	55	5,760,497.0	2,287,082.0	109.40
	54	5,760,441.0	2,287,194.0	111.80
	53	5,760,389.0	2,287,301.8	112.70
	52	5,760,335.0	2,287,409.0	112.10
	51	5,760,273.5	2,287,516.2	113.40
	50	5,760,209.0	2,287,621.2	115.30
	49	5,760,135.5	2,287,738.0	114.90
	48	5,760,064.5	2,287,848.8	115.40
	47	5,760,005.0	2,287,936.5	116.90
	46	5,759,933.0	2,288,037.5	117.60
	45	5,759,864.0	2,288,138.8	117.20
	44	5,759,793.0	2,288,237.5	117.20
	43	5,759,725.0	2,288,335.5	117.20
	42	5,759,668.5	2,288,419.8	117.20
	41	5,759,610.5	2,288,507.5	117.20
Higuera NB	110	5,761,764.5	2,283,719.0	118.90
	109	5,761,817.5	2,283,807.8	118.90
	108	5,761,870.0	2,283,897.8	118.90
	107	5,761,914.5	2,283,973.5	118.90
	106	5,761,960.5	2,284,054.8	118.90
	105	5,762,010.0	2,284,141.0	118.90
	104	5,762,065.0	2,284,233.0	118.90
	103	5,762,114.0	2,284,315.2	118.90
	102	5,762,165.5	2,284,405.0	118.90
	101	5,762,213.5	2,284,484.5	119.10
	100	5,762,268.5	2,284,576.5	119.40
	99	5,762,318.0	2,284,655.8	118.80
	98	5,762,374.0	2,284,747.8	118.30
	97	5,762,426.5	2,284,836.0	118.90

	96	5,762,471.5	2,284,915.5	117.90
	95	5,762,525.5	2,285,007.5	117.70
	94	5,762,569.0	2,285,087.8	117.80
	93	5,762,615.0	2,285,168.5	117.80
	92	5,762,662.5	2,285,250.8	117.50
	91	5,762,713.0	2,285,330.0	117.00
	90	5,762,773.0	2,285,423.5	117.70
	89	5,762,817.0	2,285,500.0	117.20
	88	5,762,862.5	2,285,588.5	117.30
	87	5,762,914.5	2,285,687.0	118.10
	86	5,762,976.0	2,285,802.2	117.70
	85	5,763,040.5	2,285,924.5	117.80
	84	5,763,095.5	2,286,030.2	117.80
	83	5,763,150.5	2,286,111.5	117.80
Higuera SB	139	5,761,733.5	2,283,737.5	118.90
	138	5,761,785.5	2,283,826.2	118.90
	137	5,761,839.5	2,283,918.2	118.90
	136	5,761,885.0	2,283,992.5	118.90
	135	5,761,931.0	2,284,072.8	118.90
	134	5,761,980.5	2,284,158.8	118.90
	133	5,762,035.0	2,284,251.8	118.90
	132	5,762,084.0	2,284,334.0	118.90
	131	5,762,135.5	2,284,424.0	118.90
	130	5,762,183.5	2,284,503.5	119.10
	129	5,762,235.0	2,284,595.0	119.40
	128	5,762,281.5	2,284,677.0	118.80
	127	5,762,333.0	2,284,772.0	118.30
	126	5,762,383.5	2,284,862.0	118.00
	125	5,762,427.5	2,284,942.0	117.90
	124	5,762,483.5	2,285,031.0	117.70
	123	5,762,527.0	2,285,111.0	117.80
	122	5,762,573.0	2,285,191.8	117.80
	121	5,762,624.0	2,285,276.2	117.50
	120	5,762,671.0	2,285,353.0	117.00
	119	5,762,726.5	2,285,451.0	117.70

	118	5,762,768.0	2,285,527.5	117.20
	117	5,762,813.5	2,285,616.2	117.30
	116	5,762,865.5	2,285,714.8	118.10
	115	5,762,927.0	2,285,829.8	117.70
	114	5,762,991.5	2,285,952.0	117.80
	113	5,763,046.5	2,286,058.0	117.80
	112	5,763,101.0	2,286,139.2	117.80
US 101 NB Off-Ramp	220	5,761,039.0	2,285,548.0	120.20
	219	5,760,990.0	2,285,500.5	121.60
	218	5,760,919.5	2,285,427.0	117.90
	217	5,760,854.5	2,285,357.2	114.30
	216	5,760,787.5	2,285,291.0	110.30
	215	5,760,725.0	2,285,222.2	108.50
	214	5,760,660.5	2,285,137.5	107.50
	213	5,760,605.5	2,285,041.5	106.40
	212	5,760,563.5	2,284,947.2	105.30
	211	5,760,533.0	2,284,846.5	104.00
	210	5,760,517.5	2,284,747.5	103.00
	209	5,760,505.5	2,284,641.2	102.50
	208	5,760,490.0	2,284,536.5	104.00
	207	5,760,480.5	2,284,450.2	105.00
	206	5,760,468.5	2,284,346.2	106.00
US 101 SB Off-Ramp	225	5,760,796.0	2,286,543.5	105.00
	224	5,760,904.5	2,286,587.2	107.00
	223	5,761,024.5	2,286,645.8	110.00
	222	5,761,120.0	2,286,707.2	111.00
	221	5,761,207.0	2,286,834.5	113.80
US 101 NB 1	238	5,760,423.5	2,283,770.0	115.00
	237	5,760,437.5	2,283,950.0	109.70
	236	5,760,446.5	2,284,089.2	108.50
	235	5,760,449.0	2,284,274.2	107.30
	234	5,760,457.0	2,284,457.5	105.00
	233	5,760,468.0	2,284,638.2	103.60
	232	5,760,479.5	2,284,804.5	102.00
	231	5,760,499.0	2,284,998.0	101.10

	230	5,760,535.5	2,285,170.0	101.40
	229	5,760,586.0	2,285,341.0	102.20
	228	5,760,654.5	2,285,515.0	105.00
	227	5,760,737.0	2,285,673.0	106.80
	226	5,760,821.5	2,285,835.0	105.00
US 101 NB 2	250	5,760,948.5	2,286,078.5	107.30
	249	5,761,054.5	2,286,276.2	109.20
	248	5,761,206.5	2,286,565.8	111.50
	247	5,761,343.0	2,286,827.0	115.00
	246	5,761,481.0	2,287,086.5	117.00
	245	5,761,612.0	2,287,339.5	119.00
	244	5,761,771.5	2,287,639.0	120.70
	243	5,761,936.5	2,287,950.0	123.70
	242	5,762,096.5	2,288,259.0	125.00
	241	5,762,241.5	2,288,531.0	125.00
	240	5,762,375.5	2,288,785.8	128.50
	239	5,762,516.5	2,289,056.0	130.00
US 101 SB 1	263	5,760,312.5	2,283,773.8	109.70
	262	5,760,332.0	2,283,954.5	109.60
	261	5,760,339.0	2,284,096.0	108.50
	260	5,760,344.5	2,284,281.5	106.70
	259	5,760,355.5	2,284,464.8	105.10
	258	5,760,364.0	2,284,648.8	103.60
	257	5,760,375.5	2,284,812.5	103.50
	256	5,760,393.5	2,285,012.0	103.60
	255	5,760,431.5	2,285,191.0	104.10
	254	5,760,486.5	2,285,377.0	105.30
	253	5,760,565.0	2,285,560.5	106.70
	252	5,760,646.0	2,285,721.5	106.80
	251	5,760,769.5	2,285,957.0	106.70
US 101 SB 2	275	5,760,886.5	2,286,177.8	108.40
	274	5,760,964.0	2,286,324.8	109.20
	273	5,761,116.0	2,286,614.2	111.50
	272	5,761,252.0	2,286,875.5	115.00
	271	5,761,390.0	2,287,135.0	117.00

	270	5,761,521.5	2,287,388.0	119.50
	269	5,761,681.0	2,287,687.5	120.70
	268	5,761,845.5	2,287,998.5	123.60
	267	5,762,005.5	2,288,307.5	125.00
	266	5,762,150.5	2,288,579.5	125.00
	265	5,762,284.5	2,288,834.2	128.50
	264	5,762,430.5	2,289,102.0	130.00

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 07
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					With Barrier			
				LAeq1h		Increase over existing		Type	Calculated	Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n Sub'l Inc	Impact	LAeq1h	Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
M-7	7	1	0.0	63.8	66	63.8	12	----	63.8	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction		
		Min	Avg	Max
		dB	dB	dB
All Selected	1	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

CALIBRATION M-8

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 08

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

Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Los Osos Valley WB	12.0	point51	51	5,762,472.0	2,285,071.2	117.20				Average	
		point50	50	5,762,344.5	2,285,142.2	113.70				Average	
		point49	49	5,762,223.5	2,285,174.5	111.90				Average	
		point48	48	5,762,092.0	2,285,186.8	111.10				Average	
		point47	47	5,761,960.5	2,285,198.8	110.10				Average	
		point46	46	5,761,816.5	2,285,211.0	109.40				Average	
		point45	45	5,761,684.5	2,285,224.8	108.80				Average	
		point44	44	5,761,549.5	2,285,241.5	108.40				Average	
		point43	43	5,761,433.0	2,285,282.5	108.60				Average	
		point42	42	5,761,339.0	2,285,333.2	109.30				Average	
		point41	41	5,761,250.0	2,285,395.8	110.80				Average	
		point40	40	5,761,169.0	2,285,462.0	114.60				Average	
		point39	39	5,761,095.5	2,285,544.0	120.20				Average	
		point38	38	5,761,030.5	2,285,654.8	120.30				Average	
		point37	37	5,760,982.5	2,285,770.2	126.10				Average	
		point36	36	5,760,947.5	2,285,882.2	127.30				Average	
		point35	35	5,760,909.0	2,285,992.0	129.80				Average	
		point34	34	5,760,871.5	2,286,100.2	129.60				Average	
		point33	33	5,760,822.5	2,286,238.8	127.40				Average	
		point32	32	5,760,787.5	2,286,348.5	119.80				Average	
		point31	31	5,760,743.0	2,286,483.2	112.10				Average	
		point30	30	5,760,723.5	2,286,597.5	109.20				Average	
		point29	29	5,760,676.5	2,286,732.5	108.30				Average	
		point28	28	5,760,626.0	2,286,871.2	108.10				Average	
		point27	27	5,760,582.5	2,286,991.5	110.20				Average	

		point26	26	5,760,540.5	2,287,095.0	109.40				Average	
		point25	25	5,760,487.5	2,287,212.0	111.80				Average	
		point24	24	5,760,435.5	2,287,324.0	112.70				Average	
		point23	23	5,760,379.5	2,287,430.5	112.10				Average	
		point22	22	5,760,320.0	2,287,538.2	113.40				Average	
		point21	21	5,760,255.0	2,287,649.0	115.30				Average	
		point20	20	5,760,181.5	2,287,766.0	114.90				Average	
		point19	19	5,760,110.5	2,287,876.8	115.40				Average	
		point18	18	5,760,050.5	2,287,970.8	116.90				Average	
		point17	17	5,759,980.5	2,288,071.8	117.60				Average	
		point16	16	5,759,916.5	2,288,173.0	117.20				Average	
		point15	15	5,759,849.0	2,288,271.8	117.20				Average	
		point14	14	5,759,785.5	2,288,371.8	117.20				Average	
		point13	13	5,759,728.5	2,288,456.0	117.20				Average	
		point12	12	5,759,671.0	2,288,544.0	117.20					
Los Osos Valley EB	12.0	point52	52	5,759,628.0	2,288,520.0	117.20				Average	
		point53	53	5,759,686.0	2,288,432.2	117.20				Average	
		point54	54	5,759,742.5	2,288,348.0	117.20				Average	
		point55	55	5,759,810.5	2,288,250.0	117.20				Average	
		point56	56	5,759,881.5	2,288,151.2	117.20				Average	
		point57	57	5,759,950.5	2,288,050.0	117.60				Average	
		point58	58	5,760,022.0	2,287,949.0	116.90				Average	
		point59	59	5,760,082.0	2,287,861.2	115.40				Average	
		point60	60	5,760,153.0	2,287,750.5	114.90				Average	
		point61	61	5,760,226.5	2,287,633.8	115.30				Average	
		point62	62	5,760,288.5	2,287,524.2	113.40				Average	
		point63	63	5,760,350.0	2,287,417.0	112.10				Average	
		point64	64	5,760,404.0	2,287,310.0	112.70				Average	
		point65	65	5,760,456.0	2,287,202.0	111.80				Average	
		point66	66	5,760,509.0	2,287,085.2	109.40				Average	
		point67	67	5,760,552.5	2,286,982.2	110.20				Average	
		point68	68	5,760,595.0	2,286,860.2	108.10				Average	
		point69	69	5,760,640.5	2,286,721.0	108.30				Average	
		point70	70	5,760,687.5	2,286,587.0	109.20				Average	
		point71	71	5,760,719.0	2,286,475.5	112.10				Average	
		point72	72	5,760,769.0	2,286,346.0	119.80				Average	
		point73	73	5,760,807.0	2,286,234.5	127.40				Average	
		point74	74	5,760,855.5	2,286,094.8	129.60				Average	
		point75	75	5,760,893.0	2,285,986.2	129.80				Average	

		point76	76	5,760,931.5	2,285,876.8	127.30				Average	
		point77	77	5,760,969.0	2,285,765.5	126.10				Average	
		point78	78	5,761,017.5	2,285,645.5	120.30				Average	
		point79	79	5,761,084.5	2,285,532.0	120.20				Average	
		point80	80	5,761,158.0	2,285,450.0	114.60				Average	
		point81	81	5,761,240.5	2,285,379.0	110.80				Average	
		point82	82	5,761,330.0	2,285,316.2	109.30				Average	
		point83	83	5,761,424.0	2,285,265.8	108.60				Average	
		point84	84	5,761,545.5	2,285,222.0	108.40				Average	
		point85	85	5,761,681.0	2,285,191.8	108.80				Average	
		point86	86	5,761,813.0	2,285,178.0	109.40				Average	
		point87	87	5,761,957.0	2,285,165.8	110.10				Average	
		point88	88	5,762,088.5	2,285,153.8	111.30				Average	
		point89	89	5,762,217.0	2,285,142.2	111.90				Average	
		point90	90	5,762,335.0	2,285,106.5	113.70				Average	
		point91	91	5,762,461.5	2,285,038.5	117.20					
Higuera NB	24.0	point147	147	5,761,753.0	2,283,727.0	118.90				Average	
		point118	118	5,761,806.5	2,283,815.8	118.90				Average	
		point117	117	5,761,858.5	2,283,905.8	118.90				Average	
		point116	116	5,761,903.5	2,283,981.5	118.90				Average	
		point115	115	5,761,949.5	2,284,062.8	118.90				Average	
		point114	114	5,761,999.0	2,284,148.8	118.90				Average	
		point113	113	5,762,054.0	2,284,240.8	118.90				Average	
		point112	112	5,762,103.0	2,284,323.2	118.90				Average	
		point111	111	5,762,154.5	2,284,413.0	118.90				Average	
		point110	110	5,762,202.5	2,284,492.5	119.10				Average	
		point109	109	5,762,257.5	2,284,584.5	119.40				Average	
		point108	108	5,762,307.0	2,284,663.8	118.80				Average	
		point107	107	5,762,362.5	2,284,755.8	118.30				Average	
		point106	106	5,762,415.5	2,284,844.0	118.90				Average	
		point105	105	5,762,460.0	2,284,923.5	117.90				Average	
		point104	104	5,762,514.5	2,285,015.5	117.70				Average	
		point103	103	5,762,558.0	2,285,095.8	117.80				Average	
		point102	102	5,762,604.0	2,285,176.5	117.80				Average	
		point101	101	5,762,651.0	2,285,258.8	117.50				Average	
		point100	100	5,762,701.5	2,285,337.8	117.00				Average	
		point99	99	5,762,762.0	2,285,431.5	117.70				Average	
		point98	98	5,762,806.0	2,285,508.0	117.20				Average	
		point97	97	5,762,851.0	2,285,596.5	117.30				Average	

		point96	96	5,762,903.5	2,285,695.0	118.10				Average	
		point95	95	5,762,965.0	2,285,810.2	117.70				Average	
		point94	94	5,763,029.5	2,285,932.2	117.80				Average	
		point93	93	5,763,084.0	2,286,038.2	117.80				Average	
		point92	92	5,763,139.0	2,286,119.5	117.80					
Higuera SB	24.0	point119	119	5,763,111.5	2,286,133.5	117.80				Average	
		point120	120	5,763,057.0	2,286,052.2	117.80				Average	
		point121	121	5,763,002.0	2,285,946.2	117.80				Average	
		point122	122	5,762,937.5	2,285,824.2	117.70				Average	
		point123	123	5,762,876.0	2,285,709.0	118.10				Average	
		point124	124	5,762,824.0	2,285,610.5	117.30				Average	
		point125	125	5,762,778.5	2,285,521.8	117.20				Average	
		point126	126	5,762,736.5	2,285,445.5	117.70				Average	
		point127	127	5,762,681.0	2,285,347.5	117.00				Average	
		point128	128	5,762,634.5	2,285,270.5	117.50				Average	
		point129	129	5,762,583.5	2,285,186.0	117.80				Average	
		point130	130	5,762,537.5	2,285,105.5	117.80				Average	
		point131	131	5,762,494.0	2,285,025.2	117.70				Average	
		point132	132	5,762,438.0	2,284,936.5	117.90				Average	
		point133	133	5,762,394.0	2,284,856.2	118.00				Average	
		point134	134	5,762,343.5	2,284,766.5	118.30				Average	
		point135	135	5,762,291.5	2,284,671.2	118.80				Average	
		point136	136	5,762,245.5	2,284,589.5	119.40				Average	
		point137	137	5,762,194.0	2,284,498.0	119.10				Average	
		point138	138	5,762,146.0	2,284,418.5	118.90				Average	
		point139	139	5,762,094.5	2,284,328.5	118.90				Average	
		point140	140	5,762,045.5	2,284,246.2	118.90				Average	
		point141	141	5,761,991.0	2,284,153.2	118.90				Average	
		point142	142	5,761,941.5	2,284,067.0	118.90				Average	
		point143	143	5,761,895.0	2,283,987.0	118.90				Average	
		point144	144	5,761,850.0	2,283,912.8	118.90				Average	
		point145	145	5,761,795.5	2,283,820.8	118.90				Average	
		point146	146	5,761,744.0	2,283,732.0	118.90					
US 101 NB 1	24.0	point238	238	5,760,404.5	2,283,771.2	115.00				Average	
		point159	159	5,760,418.5	2,283,950.0	109.70				Average	
		point158	158	5,760,430.0	2,284,090.5	108.50				Average	
		point157	157	5,760,435.5	2,284,276.0	107.30				Average	
		point156	156	5,760,447.0	2,284,457.2	105.00				Average	
		point155	155	5,760,455.0	2,284,641.2	103.60				Average	

		point154	154	5,760,463.5	2,284,804.5	102.00				Average	
		point153	153	5,760,484.0	2,285,000.2	101.10				Average	
		point152	152	5,760,519.0	2,285,172.5	101.40				Average	
		point151	151	5,760,570.5	2,285,349.0	102.20				Average	
		point150	150	5,760,639.0	2,285,520.5	105.00				Average	
		point149	149	5,760,720.0	2,285,681.8	106.80				Average	
		point148	148	5,760,805.0	2,285,843.5	105.00					
US 101 NB 2	24.0	point171	171	5,760,932.0	2,286,087.2	107.30				Average	
		point170	170	5,761,038.0	2,286,285.0	109.20				Average	
		point169	169	5,761,190.0	2,286,574.5	111.50				Average	
		point168	168	5,761,326.5	2,286,835.5	115.00				Average	
		point167	167	5,761,464.5	2,287,095.2	117.00				Average	
		point166	166	5,761,595.5	2,287,348.2	119.00				Average	
		point165	165	5,761,755.0	2,287,647.8	120.70				Average	
		point164	164	5,761,919.5	2,287,958.8	123.70				Average	
		point163	163	5,762,079.5	2,288,267.8	125.00				Average	
		point162	162	5,762,225.0	2,288,539.8	125.00				Average	
		point161	161	5,762,358.5	2,288,794.5	128.50				Average	
		point160	160	5,762,500.0	2,289,064.8	130.00					
US 101 SB 1	24.0	point173	173	5,760,788.0	2,285,947.2	106.70				Average	
		point174	174	5,760,664.5	2,285,712.0	106.80				Average	
		point175	175	5,760,583.5	2,285,550.8	106.70				Average	
		point176	176	5,760,505.0	2,285,367.5	105.30				Average	
		point177	177	5,760,449.0	2,285,185.8	104.10				Average	
		point178	178	5,760,412.5	2,285,010.0	103.60				Average	
		point179	179	5,760,394.5	2,284,810.5	103.50				Average	
		point180	180	5,760,386.5	2,284,647.5	103.60				Average	
		point181	181	5,760,378.0	2,284,463.2	105.10				Average	
		point182	182	5,760,364.5	2,284,280.8	106.70				Average	
		point183	183	5,760,358.5	2,284,095.2	108.50				Average	
		point184	184	5,760,347.5	2,283,952.2	109.60				Average	
		point237	237	5,760,335.5	2,283,772.5	109.70					
US 101 SB 2	24.0	point186	186	5,762,449.5	2,289,092.5	130.00				Average	
		point187	187	5,762,303.0	2,288,824.8	128.50				Average	
		point188	188	5,762,169.5	2,288,570.0	125.00				Average	
		point189	189	5,762,024.0	2,288,297.8	125.00				Average	
		point190	190	5,761,864.0	2,287,989.0	123.60				Average	
		point191	191	5,761,699.5	2,287,678.0	120.70				Average	
		point192	192	5,761,540.0	2,287,378.5	119.50				Average	

		point193	193	5,761,409.0	2,287,125.2	117.00				Average	
		point194	194	5,761,271.0	2,286,865.8	115.00				Average	
		point195	195	5,761,134.5	2,286,604.5	111.50				Average	
		point196	196	5,760,982.5	2,286,315.2	109.20				Average	
		point197	197	5,760,905.5	2,286,168.0	108.40					
US 101 On-Ramp	12.0	point211	211	5,761,017.5	2,285,577.0	122.40				Average	
		point210	210	5,760,968.5	2,285,523.0	122.10				Average	
		point209	209	5,760,914.0	2,285,466.2	118.00				Average	
		point208	208	5,760,862.5	2,285,419.5	114.60				Average	
		point207	207	5,760,802.0	2,285,393.8	113.30				Average	
		point206	206	5,760,744.5	2,285,404.2	107.90				Average	
		point205	205	5,760,707.5	2,285,431.5	104.70				Average	
		point204	204	5,760,685.0	2,285,478.2	104.50				Average	
		point203	203	5,760,685.0	2,285,529.8	103.40				Average	
		point202	202	5,760,701.5	2,285,587.2	103.40				Average	
		point201	201	5,760,727.5	2,285,642.2	102.50				Average	
		point200	200	5,760,758.5	2,285,705.0	104.50				Average	
		point199	199	5,760,785.0	2,285,760.2	104.80				Average	
		point198	198	5,760,813.5	2,285,816.2	105.30					
US 101 NB Off-Ramp	12.0	point213	213	5,760,460.0	2,284,353.0	106.00				Average	
		point214	214	5,760,472.0	2,284,457.0	105.00				Average	
		point215	215	5,760,481.5	2,284,543.2	104.00				Average	
		point216	216	5,760,496.5	2,284,648.0	102.50				Average	
		point217	217	5,760,508.5	2,284,754.2	103.00				Average	
		point221	221	5,760,524.0	2,284,853.2	104.00				Average	
		point222	222	5,760,555.0	2,284,954.0	105.30				Average	
		point223	223	5,760,596.5	2,285,048.5	106.40				Average	
		point224	224	5,760,651.5	2,285,144.5	107.50				Average	
		point225	225	5,760,716.5	2,285,229.0	108.50				Average	
		point226	226	5,760,779.0	2,285,297.8	110.30				Average	
		point227	227	5,760,846.0	2,285,364.2	114.30				Average	
		point228	228	5,760,910.5	2,285,433.8	117.90				Average	
		point229	229	5,760,975.5	2,285,513.5	121.60				Average	
		point230	230	5,761,027.0	2,285,565.0	120.20					
US 101 SB Off-Ramp	12.0	point236	236	5,760,801.5	2,286,530.5	105.00				Average	
		point235	235	5,760,910.0	2,286,574.0	107.00				Average	
		point234	234	5,761,030.0	2,286,632.5	110.00				Average	
		point233	233	5,761,124.0	2,286,701.8	111.00				Average	
		point232	232	5,761,216.5	2,286,829.5	113.80					

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2 September 2006
TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 08

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
Los Osos Valley WB	point51	51	824	40	44	40	0	0	0	0	0	0
	point50	50	824	40	44	40	0	0	0	0	0	0
	point49	49	824	40	44	40	0	0	0	0	0	0
	point48	48	824	40	44	40	0	0	0	0	0	0
	point47	47	824	40	44	40	0	0	0	0	0	0
	point46	46	824	40	44	40	0	0	0	0	0	0
	point45	45	824	40	44	40	0	0	0	0	0	0
	point44	44	824	40	44	40	0	0	0	0	0	0
	point43	43	824	40	44	40	0	0	0	0	0	0
	point42	42	824	40	44	40	0	0	0	0	0	0
	point41	41	824	40	44	40	0	0	0	0	0	0
	point40	40	824	40	44	40	0	0	0	0	0	0
	point39	39	824	40	44	40	0	0	0	0	0	0
	point38	38	824	40	44	40	0	0	0	0	0	0
	point37	37	824	40	44	40	0	0	0	0	0	0
	point36	36	824	40	44	40	0	0	0	0	0	0
	point35	35	824	40	44	40	0	0	0	0	0	0
	point34	34	824	40	44	40	0	0	0	0	0	0
	point33	33	824	40	44	40	0	0	0	0	0	0
	point32	32	824	40	44	40	0	0	0	0	0	0
	point31	31	824	40	44	40	0	0	0	0	0	0
	point30	30	824	40	44	40	0	0	0	0	0	0
	point29	29	824	40	44	40	0	0	0	0	0	0

	point28	28	824	40	44	40	0	0	0	0	0	0
	point27	27	824	40	44	40	0	0	0	0	0	0
	point26	26	824	40	44	40	0	0	0	0	0	0
	point25	25	824	40	44	40	0	0	0	0	0	0
	point24	24	824	40	44	40	0	0	0	0	0	0
	point23	23	824	40	44	40	0	0	0	0	0	0
	point22	22	824	40	44	40	0	0	0	0	0	0
	point21	21	824	40	44	40	0	0	0	0	0	0
	point20	20	824	40	44	40	0	0	0	0	0	0
	point19	19	824	40	44	40	0	0	0	0	0	0
	point18	18	824	40	44	40	0	0	0	0	0	0
	point17	17	824	40	44	40	0	0	0	0	0	0
	point16	16	824	40	44	40	0	0	0	0	0	0
	point15	15	824	40	44	40	0	0	0	0	0	0
	point14	14	824	40	44	40	0	0	0	0	0	0
	point13	13	824	40	44	40	0	0	0	0	0	0
	point12	12										
Los Osos Valley EB	point52	52	720	40	20	40	84	35	0	0	0	0
	point53	53	720	40	20	40	84	35	0	0	0	0
	point54	54	720	40	20	40	84	35	0	0	0	0
	point55	55	720	40	20	40	84	35	0	0	0	0
	point56	56	720	40	20	40	84	35	0	0	0	0
	point57	57	720	40	20	40	84	35	0	0	0	0
	point58	58	720	40	20	40	84	35	0	0	0	0
	point59	59	720	40	20	40	84	35	0	0	0	0
	point60	60	720	40	20	40	84	35	0	0	0	0
	point61	61	720	40	20	40	84	35	0	0	0	0
	point62	62	720	40	20	40	84	35	0	0	0	0
	point63	63	720	40	20	40	84	35	0	0	0	0
	point64	64	720	40	20	40	84	35	0	0	0	0
	point65	65	720	40	20	40	84	35	0	0	0	0
	point66	66	720	40	20	40	84	35	0	0	0	0
	point67	67	720	40	20	40	84	35	0	0	0	0
	point68	68	720	40	20	40	84	35	0	0	0	0
	point69	69	720	40	20	40	84	35	0	0	0	0

	point70	70	720	40	20	40	84	35	0	0	0	0
	point71	71	720	40	20	40	84	35	0	0	0	0
	point72	72	720	40	20	40	84	35	0	0	0	0
	point73	73	720	40	20	40	84	35	0	0	0	0
	point74	74	720	40	20	40	84	35	0	0	0	0
	point75	75	720	40	20	40	84	35	0	0	0	0
	point76	76	720	40	20	40	84	35	0	0	0	0
	point77	77	720	40	20	40	84	35	0	0	0	0
	point78	78	720	40	20	40	84	35	0	0	0	0
	point79	79	720	40	20	40	84	35	0	0	0	0
	point80	80	720	40	20	40	84	35	0	0	0	0
	point81	81	720	40	20	40	84	35	0	0	0	0
	point82	82	720	40	20	40	84	35	0	0	0	0
	point83	83	720	40	20	40	84	35	0	0	0	0
	point84	84	720	40	20	40	84	35	0	0	0	0
	point85	85	720	40	20	40	84	35	0	0	0	0
	point86	86	720	40	20	40	84	35	0	0	0	0
	point87	87	720	40	20	40	84	35	0	0	0	0
	point88	88	720	40	20	40	84	35	0	0	0	0
	point89	89	720	40	20	40	84	35	0	0	0	0
	point90	90	720	40	20	40	84	35	0	0	0	0
	point91	91										
Higuera NB	point147	147	244	40	12	40	8	35	0	0	0	0
	point118	118	244	40	12	40	8	35	0	0	0	0
	point117	117	244	40	12	40	8	35	0	0	0	0
	point116	116	244	40	12	40	8	35	0	0	0	0
	point115	115	244	40	12	40	8	35	0	0	0	0
	point114	114	244	40	12	40	8	35	0	0	0	0
	point113	113	244	40	12	40	8	35	0	0	0	0
	point112	112	244	40	12	40	8	35	0	0	0	0
	point111	111	244	40	12	40	8	35	0	0	0	0
	point110	110	244	40	12	40	8	35	0	0	0	0
	point109	109	244	40	12	40	8	35	0	0	0	0
	point108	108	244	40	12	40	8	35	0	0	0	0
	point107	107	244	40	12	40	8	35	0	0	0	0

	point106	106	244	40	12	40	8	35	0	0	0	0
	point105	105	244	40	12	40	8	35	0	0	0	0
	point104	104	244	40	12	40	8	35	0	0	0	0
	point103	103	244	40	12	40	8	35	0	0	0	0
	point102	102	244	40	12	40	8	35	0	0	0	0
	point101	101	244	40	12	40	8	35	0	0	0	0
	point100	100	244	40	12	40	8	35	0	0	0	0
	point99	99	244	40	12	40	8	35	0	0	0	0
	point98	98	244	40	12	40	8	35	0	0	0	0
	point97	97	244	40	12	40	8	35	0	0	0	0
	point96	96	244	40	12	40	8	35	0	0	0	0
	point95	95	244	40	12	40	8	35	0	0	0	0
	point94	94	244	40	12	40	8	35	0	0	0	0
	point93	93	244	40	12	40	8	35	0	0	0	0
	point92	92										
Higuera SB	point119	119	244	40	12	40	8	35	0	0	0	0
	point120	120	244	40	12	40	8	35	0	0	0	0
	point121	121	244	40	12	40	8	35	0	0	0	0
	point122	122	244	40	12	40	8	35	0	0	0	0
	point123	123	244	40	12	40	8	35	0	0	0	0
	point124	124	244	40	12	40	8	35	0	0	0	0
	point125	125	244	40	12	40	8	35	0	0	0	0
	point126	126	244	40	12	40	8	35	0	0	0	0
	point127	127	244	40	12	40	8	35	0	0	0	0
	point128	128	244	40	12	40	8	35	0	0	0	0
	point129	129	244	40	12	40	8	35	0	0	0	0
	point130	130	244	40	12	40	8	35	0	0	0	0
	point131	131	244	40	12	40	8	35	0	0	0	0
	point132	132	244	40	12	40	8	35	0	0	0	0
	point133	133	244	40	12	40	8	35	0	0	0	0
	point134	134	244	40	12	40	8	35	0	0	0	0
	point135	135	244	40	12	40	8	35	0	0	0	0
	point136	136	244	40	12	40	8	35	0	0	0	0
	point137	137	244	40	12	40	8	35	0	0	0	0
	point138	138	244	40	12	40	8	35	0	0	0	0

	point139	139	244	40	12	40	8	35	0	0	0	0
	point140	140	244	40	12	40	8	35	0	0	0	0
	point141	141	244	40	12	40	8	35	0	0	0	0
	point142	142	244	40	12	40	8	35	0	0	0	0
	point143	143	244	40	12	40	8	35	0	0	0	0
	point144	144	244	40	12	40	8	35	0	0	0	0
	point145	145	244	40	12	40	8	35	0	0	0	0
	point146	146										
US 101 NB 1	point238	238	1500	65	76	65	52	60	0	0	0	0
	point159	159	1500	65	76	65	52	60	0	0	0	0
	point158	158	1500	65	76	65	52	60	0	0	0	0
	point157	157	1500	65	76	65	52	60	0	0	0	0
	point156	156	1500	65	76	65	52	60	0	0	0	0
	point155	155	1500	65	76	65	52	60	0	0	0	0
	point154	154	1500	65	76	65	52	60	0	0	0	0
	point153	153	1500	65	76	65	52	60	0	0	0	0
	point152	152	1500	65	76	65	52	60	0	0	0	0
	point151	151	1500	65	76	65	52	60	0	0	0	0
	point150	150	1500	65	76	65	52	60	0	0	0	0
	point149	149	1500	65	76	65	52	60	0	0	0	0
	point148	148										
US 101 NB 2	point171	171	1500	65	76	65	52	60	0	0	0	0
	point170	170	1500	65	76	65	52	60	0	0	0	0
	point169	169	1500	65	76	65	52	60	0	0	0	0
	point168	168	1500	65	76	65	52	60	0	0	0	0
	point167	167	1500	65	76	65	52	60	0	0	0	0
	point166	166	1500	65	76	65	52	60	0	0	0	0
	point165	165	1500	65	76	65	52	60	0	0	0	0
	point164	164	1500	65	76	65	52	60	0	0	0	0
	point163	163	1500	65	76	65	52	60	0	0	0	0
	point162	162	1500	65	76	65	52	60	0	0	0	0
	point161	161	1500	65	76	65	52	60	0	0	0	0
	point160	160										
US 101 SB 1	point173	173	2004	65	88	65	52	60	0	0	0	0
	point174	174	2004	65	88	65	52	60	0	0	0	0

	point175	175	2004	65	88	65	52	60	0	0	0	0
	point176	176	2004	65	88	65	52	60	0	0	0	0
	point177	177	2004	65	88	65	52	60	0	0	0	0
	point178	178	2004	65	88	65	52	60	0	0	0	0
	point179	179	2004	65	88	65	52	60	0	0	0	0
	point180	180	2004	65	88	65	52	60	0	0	0	0
	point181	181	2004	65	88	65	52	60	0	0	0	0
	point182	182	2004	65	88	65	52	60	0	0	0	0
	point183	183	2004	65	88	65	52	60	0	0	0	0
	point184	184	2004	65	88	65	52	60	0	0	0	0
	point237	237										
US 101 SB 2	point186	186	2004	65	88	65	52	60	0	0	0	0
	point187	187	2004	65	88	65	52	60	0	0	0	0
	point188	188	2004	65	88	65	52	60	0	0	0	0
	point189	189	2004	65	88	65	52	60	0	0	0	0
	point190	190	2004	65	88	65	52	60	0	0	0	0
	point191	191	2004	65	88	65	52	60	0	0	0	0
	point192	192	2004	65	88	65	52	60	0	0	0	0
	point193	193	2004	65	88	65	52	60	0	0	0	0
	point194	194	2004	65	88	65	52	60	0	0	0	0
	point195	195	2004	65	88	65	52	60	0	0	0	0
	point196	196	2004	65	88	65	52	60	0	0	0	0
	point197	197										
US 101 On-Ramp	point211	211	0	0	0	0	0	0	0	0	0	0
	point210	210	0	0	0	0	0	0	0	0	0	0
	point209	209	0	0	0	0	0	0	0	0	0	0
	point208	208	0	0	0	0	0	0	0	0	0	0
	point207	207	0	0	0	0	0	0	0	0	0	0
	point206	206	0	0	0	0	0	0	0	0	0	0
	point205	205	0	0	0	0	0	0	0	0	0	0
	point204	204	0	0	0	0	0	0	0	0	0	0
	point203	203	0	0	0	0	0	0	0	0	0	0
	point202	202	0	0	0	0	0	0	0	0	0	0
	point201	201	0	0	0	0	0	0	0	0	0	0
	point200	200	0	0	0	0	0	0	0	0	0	0

	point199	199	0	0	0	0	0	0	0	0	0	0
	point198	198										
US 101 NB Off-Ramp	point213	213	472	45	32	45	0	0	0	0	0	0
	point214	214	472	45	32	45	0	0	0	0	0	0
	point215	215	472	45	32	45	0	0	0	0	0	0
	point216	216	472	45	32	45	0	0	0	0	0	0
	point217	217	472	45	32	45	0	0	0	0	0	0
	point221	221	472	45	32	45	0	0	0	0	0	0
	point222	222	472	45	32	45	0	0	0	0	0	0
	point223	223	472	45	32	45	0	0	0	0	0	0
	point224	224	472	45	32	45	0	0	0	0	0	0
	point225	225	472	45	32	45	0	0	0	0	0	0
	point226	226	472	45	32	45	0	0	0	0	0	0
	point227	227	472	45	32	45	0	0	0	0	0	0
	point228	228	472	45	32	45	0	0	0	0	0	0
	point229	229	472	45	32	45	0	0	0	0	0	0
	point230	230										
US 101 SB Off-Ramp	point236	236	0	0	0	0	0	0	0	0	0	0
	point235	235	0	0	0	0	0	0	0	0	0	0
	point234	234	0	0	0	0	0	0	0	0	0	0
	point233	233	0	0	0	0	0	0	0	0	0	0
	point232	232										

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INPUT: RECEIVERS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 08

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	
M-8	8	1	5,762,422.0	2,285,174.8	115.00	5.00	0.00	66	12.0	8.0	Y

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INPUT: TERRAIN LINES
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 08

Terrain Line Name	Points No.	Coordinates (ground) X ft	Y ft	Z ft
Los Oso Valley WB	40	5,762,477.0	2,285,082.2	117.20
	39	5,762,347.5	2,285,152.0	113.70
	38	5,762,225.0	2,285,186.0	111.90
	37	5,762,093.0	2,285,199.2	111.10
	36	5,761,961.5	2,285,212.2	110.10
	35	5,761,817.5	2,285,224.0	109.40
	34	5,761,685.0	2,285,238.0	108.80
	33	5,761,553.5	2,285,256.2	108.40
	32	5,761,436.5	2,285,289.8	108.60
	31	5,761,343.0	2,285,340.2	109.30
	30	5,761,255.5	2,285,404.0	110.80
	29	5,761,176.0	2,285,469.5	114.60
	28	5,761,108.0	2,285,552.5	120.20
	27	5,761,043.5	2,285,660.2	120.30
	26	5,760,995.5	2,285,775.8	126.10
	25	5,760,956.0	2,285,887.2	127.30
	24	5,760,917.5	2,285,997.0	129.80
	23	5,760,881.5	2,286,104.2	129.60
	22	5,760,835.5	2,286,242.2	127.40
	21	5,760,800.5	2,286,351.8	119.80
	20	5,760,754.5	2,286,488.8	112.10
	19	5,760,735.5	2,286,603.0	109.20
	18	5,760,700.0	2,286,744.0	108.30
	17	5,760,649.5	2,286,882.5	108.10

	16	5,760,601.5	2,287,001.8	110.20
	15	5,760,559.0	2,287,105.2	109.40
	14	5,760,506.0	2,287,222.2	111.80
	13	5,760,454.5	2,287,334.2	112.70
	12	5,760,398.0	2,287,440.5	112.10
	11	5,760,338.5	2,287,548.5	113.40
	10	5,760,273.5	2,287,659.2	115.30
	9	5,760,200.0	2,287,776.2	114.90
	8	5,760,129.0	2,287,887.0	115.40
	7	5,760,069.0	2,287,981.0	116.90
	6	5,760,000.5	2,288,084.8	117.60
	5	5,759,937.0	2,288,186.0	117.20
	4	5,759,869.5	2,288,284.5	117.20
	3	5,759,804.0	2,288,382.0	117.20
	2	5,759,747.5	2,288,466.2	117.20
	1	5,759,689.5	2,288,554.2	117.20
Los Oso Valley EB	80	5,762,455.0	2,285,023.5	117.20
	79	5,762,332.0	2,285,097.2	113.70
	78	5,762,216.5	2,285,132.0	111.90
	77	5,762,088.0	2,285,145.0	111.30
	76	5,761,956.5	2,285,155.5	110.10
	75	5,761,812.5	2,285,167.8	109.40
	74	5,761,679.5	2,285,178.8	108.80
	73	5,761,543.0	2,285,207.0	108.40
	72	5,761,422.5	2,285,260.0	108.60
	71	5,761,326.5	2,285,312.0	109.30
	70	5,761,236.5	2,285,373.0	110.80
	69	5,761,152.0	2,285,444.0	114.60
	68	5,761,078.0	2,285,523.0	120.20
	67	5,761,004.0	2,285,639.5	120.30
	66	5,760,959.5	2,285,762.5	126.10
	65	5,760,921.5	2,285,874.0	127.30
	64	5,760,883.0	2,285,983.5	129.80
	63	5,760,843.5	2,286,093.0	129.60
	62	5,760,795.5	2,286,231.8	127.40

	61	5,760,757.5	2,286,343.0	119.80
	60	5,760,704.5	2,286,471.8	112.10
	59	5,760,673.0	2,286,583.2	109.20
	58	5,760,626.0	2,286,717.0	108.30
	57	5,760,583.0	2,286,857.0	108.10
	56	5,760,541.0	2,286,979.0	110.20
	55	5,760,497.0	2,287,082.0	109.40
	54	5,760,441.0	2,287,194.0	111.80
	53	5,760,389.0	2,287,301.8	112.70
	52	5,760,335.0	2,287,409.0	112.10
	51	5,760,273.5	2,287,516.2	113.40
	50	5,760,209.0	2,287,621.2	115.30
	49	5,760,135.5	2,287,738.0	114.90
	48	5,760,064.5	2,287,848.8	115.40
	47	5,760,005.0	2,287,936.5	116.90
	46	5,759,933.0	2,288,037.5	117.60
	45	5,759,864.0	2,288,138.8	117.20
	44	5,759,793.0	2,288,237.5	117.20
	43	5,759,725.0	2,288,335.5	117.20
	42	5,759,668.5	2,288,419.8	117.20
	41	5,759,610.5	2,288,507.5	117.20
Higuera NB	110	5,761,764.5	2,283,719.0	118.90
	109	5,761,817.5	2,283,807.8	118.90
	108	5,761,870.0	2,283,897.8	118.90
	107	5,761,914.5	2,283,973.5	118.90
	106	5,761,960.5	2,284,054.8	118.90
	105	5,762,010.0	2,284,141.0	118.90
	104	5,762,065.0	2,284,233.0	118.90
	103	5,762,114.0	2,284,315.2	118.90
	102	5,762,165.5	2,284,405.0	118.90
	101	5,762,213.5	2,284,484.5	119.10
	100	5,762,268.5	2,284,576.5	119.40
	99	5,762,318.0	2,284,655.8	118.80
	98	5,762,374.0	2,284,747.8	118.30
	97	5,762,426.5	2,284,836.0	118.90

	96	5,762,471.5	2,284,915.5	117.90
	95	5,762,525.5	2,285,007.5	117.70
	94	5,762,569.0	2,285,087.8	117.80
	93	5,762,615.0	2,285,168.5	117.80
	92	5,762,662.5	2,285,250.8	117.50
	91	5,762,713.0	2,285,330.0	117.00
	90	5,762,773.0	2,285,423.5	117.70
	89	5,762,817.0	2,285,500.0	117.20
	88	5,762,862.5	2,285,588.5	117.30
	87	5,762,914.5	2,285,687.0	118.10
	86	5,762,976.0	2,285,802.2	117.70
	85	5,763,040.5	2,285,924.5	117.80
	84	5,763,095.5	2,286,030.2	117.80
	83	5,763,150.5	2,286,111.5	117.80
Higuera SB	139	5,761,733.5	2,283,737.5	118.90
	138	5,761,785.5	2,283,826.2	118.90
	137	5,761,839.5	2,283,918.2	118.90
	136	5,761,885.0	2,283,992.5	118.90
	135	5,761,931.0	2,284,072.8	118.90
	134	5,761,980.5	2,284,158.8	118.90
	133	5,762,035.0	2,284,251.8	118.90
	132	5,762,084.0	2,284,334.0	118.90
	131	5,762,135.5	2,284,424.0	118.90
	130	5,762,183.5	2,284,503.5	119.10
	129	5,762,235.0	2,284,595.0	119.40
	128	5,762,281.5	2,284,677.0	118.80
	127	5,762,333.0	2,284,772.0	118.30
	126	5,762,383.5	2,284,862.0	118.00
	125	5,762,427.5	2,284,942.0	117.90
	124	5,762,483.5	2,285,031.0	117.70
	123	5,762,527.0	2,285,111.0	117.80
	122	5,762,573.0	2,285,191.8	117.80
	121	5,762,624.0	2,285,276.2	117.50
	120	5,762,671.0	2,285,353.0	117.00
	119	5,762,726.5	2,285,451.0	117.70

	118	5,762,768.0	2,285,527.5	117.20
	117	5,762,813.5	2,285,616.2	117.30
	116	5,762,865.5	2,285,714.8	118.10
	115	5,762,927.0	2,285,829.8	117.70
	114	5,762,991.5	2,285,952.0	117.80
	113	5,763,046.5	2,286,058.0	117.80
	112	5,763,101.0	2,286,139.2	117.80
US 101 NB Off-Ramp	220	5,761,039.0	2,285,548.0	120.20
	219	5,760,990.0	2,285,500.5	121.60
	218	5,760,919.5	2,285,427.0	117.90
	217	5,760,854.5	2,285,357.2	114.30
	216	5,760,787.5	2,285,291.0	110.30
	215	5,760,725.0	2,285,222.2	108.50
	214	5,760,660.5	2,285,137.5	107.50
	213	5,760,605.5	2,285,041.5	106.40
	212	5,760,563.5	2,284,947.2	105.30
	211	5,760,533.0	2,284,846.5	104.00
	210	5,760,517.5	2,284,747.5	103.00
	209	5,760,505.5	2,284,641.2	102.50
	208	5,760,490.0	2,284,536.5	104.00
	207	5,760,480.5	2,284,450.2	105.00
	206	5,760,468.5	2,284,346.2	106.00
US 101 SB Off-Ramp	225	5,760,796.0	2,286,543.5	105.00
	224	5,760,904.5	2,286,587.2	107.00
	223	5,761,024.5	2,286,645.8	110.00
	222	5,761,120.0	2,286,707.2	111.00
	221	5,761,207.0	2,286,834.5	113.80
US 101 NB 1	238	5,760,423.5	2,283,770.0	115.00
	237	5,760,437.5	2,283,950.0	109.70
	236	5,760,446.5	2,284,089.2	108.50
	235	5,760,449.0	2,284,274.2	107.30
	234	5,760,457.0	2,284,457.5	105.00
	233	5,760,468.0	2,284,638.2	103.60
	232	5,760,479.5	2,284,804.5	102.00
	231	5,760,499.0	2,284,998.0	101.10

	230	5,760,535.5	2,285,170.0	101.40
	229	5,760,586.0	2,285,341.0	102.20
	228	5,760,654.5	2,285,515.0	105.00
	227	5,760,737.0	2,285,673.0	106.80
	226	5,760,821.5	2,285,835.0	105.00
US 101 NB 2	250	5,760,948.5	2,286,078.5	107.30
	249	5,761,054.5	2,286,276.2	109.20
	248	5,761,206.5	2,286,565.8	111.50
	247	5,761,343.0	2,286,827.0	115.00
	246	5,761,481.0	2,287,086.5	117.00
	245	5,761,612.0	2,287,339.5	119.00
	244	5,761,771.5	2,287,639.0	120.70
	243	5,761,936.5	2,287,950.0	123.70
	242	5,762,096.5	2,288,259.0	125.00
	241	5,762,241.5	2,288,531.0	125.00
	240	5,762,375.5	2,288,785.8	128.50
	239	5,762,516.5	2,289,056.0	130.00
US 101 SB 1	263	5,760,312.5	2,283,773.8	109.70
	262	5,760,332.0	2,283,954.5	109.60
	261	5,760,339.0	2,284,096.0	108.50
	260	5,760,344.5	2,284,281.5	106.70
	259	5,760,355.5	2,284,464.8	105.10
	258	5,760,364.0	2,284,648.8	103.60
	257	5,760,375.5	2,284,812.5	103.50
	256	5,760,393.5	2,285,012.0	103.60
	255	5,760,431.5	2,285,191.0	104.10
	254	5,760,486.5	2,285,377.0	105.30
	253	5,760,565.0	2,285,560.5	106.70
	252	5,760,646.0	2,285,721.5	106.80
	251	5,760,769.5	2,285,957.0	106.70
US 101 SB 2	275	5,760,886.5	2,286,177.8	108.40
	274	5,760,964.0	2,286,324.8	109.20
	273	5,761,116.0	2,286,614.2	111.50
	272	5,761,252.0	2,286,875.5	115.00
	271	5,761,390.0	2,287,135.0	117.00

	270	5,761,521.5	2,287,388.0	119.50
	269	5,761,681.0	2,287,687.5	120.70
	268	5,761,845.5	2,287,998.5	123.60
	267	5,762,005.5	2,288,307.5	125.00
	266	5,762,150.5	2,288,579.5	125.00
	265	5,762,284.5	2,288,834.2	128.50
	264	5,762,430.5	2,289,102.0	130.00

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 08
BARRIER DESIGN: INPUT HEIGHTS

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

ATMOSPHERICS: 68 deg F, 50% RH

Receiver												
Name	No.	#DUs	Existing LAeq1h	No Barrier					With Barrier			
				LAeq1h		Increase over existing		Type	Calculated	Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n Sub'l Inc	Impact	LAeq1h	Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
M-8	8	1	0.0	65.3	66	65.3	12	----	65.3	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction		
		Min	Avg	Max
		dB	dB	dB
All Selected	1	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

CALIBRATION M-9

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 09

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

Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Los Osos Valley WB	12.0	point51	51	5,762,472.0	2,285,071.2	117.20				Average	
		point50	50	5,762,344.5	2,285,142.2	113.70				Average	
		point49	49	5,762,223.5	2,285,174.5	111.90				Average	
		point48	48	5,762,092.0	2,285,186.8	111.10				Average	
		point47	47	5,761,960.5	2,285,198.8	110.10				Average	
		point46	46	5,761,816.5	2,285,211.0	109.40				Average	
		point45	45	5,761,684.5	2,285,224.8	108.80				Average	
		point44	44	5,761,549.5	2,285,241.5	108.40				Average	
		point43	43	5,761,433.0	2,285,282.5	108.60				Average	
		point42	42	5,761,339.0	2,285,333.2	109.30				Average	
		point41	41	5,761,250.0	2,285,395.8	110.80				Average	
		point40	40	5,761,169.0	2,285,462.0	114.60				Average	
		point39	39	5,761,095.5	2,285,544.0	120.20				Average	
		point38	38	5,761,030.5	2,285,654.8	120.30				Average	
		point37	37	5,760,982.5	2,285,770.2	126.10				Average	
		point36	36	5,760,947.5	2,285,882.2	127.30				Average	
		point35	35	5,760,909.0	2,285,992.0	129.80				Average	
		point34	34	5,760,871.5	2,286,100.2	129.60				Average	
		point33	33	5,760,822.5	2,286,238.8	127.40				Average	
		point32	32	5,760,787.5	2,286,348.5	119.80				Average	
		point31	31	5,760,743.0	2,286,483.2	112.10				Average	
		point30	30	5,760,723.5	2,286,597.5	109.20				Average	
		point29	29	5,760,676.5	2,286,732.5	108.30				Average	
		point28	28	5,760,626.0	2,286,871.2	108.10				Average	
		point27	27	5,760,582.5	2,286,991.5	110.20				Average	

		point26	26	5,760,540.5	2,287,095.0	109.40				Average	
		point25	25	5,760,487.5	2,287,212.0	111.80				Average	
		point24	24	5,760,435.5	2,287,324.0	112.70				Average	
		point23	23	5,760,379.5	2,287,430.5	112.10				Average	
		point22	22	5,760,320.0	2,287,538.2	113.40				Average	
		point21	21	5,760,255.0	2,287,649.0	115.30				Average	
		point20	20	5,760,181.5	2,287,766.0	114.90				Average	
		point19	19	5,760,110.5	2,287,876.8	115.40				Average	
		point18	18	5,760,050.5	2,287,970.8	116.90				Average	
		point17	17	5,759,980.5	2,288,071.8	117.60				Average	
		point16	16	5,759,916.5	2,288,173.0	117.20				Average	
		point15	15	5,759,849.0	2,288,271.8	117.20				Average	
		point14	14	5,759,785.5	2,288,371.8	117.20				Average	
		point13	13	5,759,728.5	2,288,456.0	117.20				Average	
		point12	12	5,759,671.0	2,288,544.0	117.20					
Los Osos Valley EB	12.0	point52	52	5,759,628.0	2,288,520.0	117.20				Average	
		point53	53	5,759,686.0	2,288,432.2	117.20				Average	
		point54	54	5,759,742.5	2,288,348.0	117.20				Average	
		point55	55	5,759,810.5	2,288,250.0	117.20				Average	
		point56	56	5,759,881.5	2,288,151.2	117.20				Average	
		point57	57	5,759,950.5	2,288,050.0	117.60				Average	
		point58	58	5,760,022.0	2,287,949.0	116.90				Average	
		point59	59	5,760,082.0	2,287,861.2	115.40				Average	
		point60	60	5,760,153.0	2,287,750.5	114.90				Average	
		point61	61	5,760,226.5	2,287,633.8	115.30				Average	
		point62	62	5,760,288.5	2,287,524.2	113.40				Average	
		point63	63	5,760,350.0	2,287,417.0	112.10				Average	
		point64	64	5,760,404.0	2,287,310.0	112.70				Average	
		point65	65	5,760,456.0	2,287,202.0	111.80				Average	
		point66	66	5,760,509.0	2,287,085.2	109.40				Average	
		point67	67	5,760,552.5	2,286,982.2	110.20				Average	
		point68	68	5,760,595.0	2,286,860.2	108.10				Average	
		point69	69	5,760,640.5	2,286,721.0	108.30				Average	
		point70	70	5,760,687.5	2,286,587.0	109.20				Average	
		point71	71	5,760,719.0	2,286,475.5	112.10				Average	
		point72	72	5,760,769.0	2,286,346.0	119.80				Average	
		point73	73	5,760,807.0	2,286,234.5	127.40				Average	
		point74	74	5,760,855.5	2,286,094.8	129.60				Average	
		point75	75	5,760,893.0	2,285,986.2	129.80				Average	

		point76	76	5,760,931.5	2,285,876.8	127.30				Average	
		point77	77	5,760,969.0	2,285,765.5	126.10				Average	
		point78	78	5,761,017.5	2,285,645.5	120.30				Average	
		point79	79	5,761,084.5	2,285,532.0	120.20				Average	
		point80	80	5,761,158.0	2,285,450.0	114.60				Average	
		point81	81	5,761,240.5	2,285,379.0	110.80				Average	
		point82	82	5,761,330.0	2,285,316.2	109.30				Average	
		point83	83	5,761,424.0	2,285,265.8	108.60				Average	
		point84	84	5,761,545.5	2,285,222.0	108.40				Average	
		point85	85	5,761,681.0	2,285,191.8	108.80				Average	
		point86	86	5,761,813.0	2,285,178.0	109.40				Average	
		point87	87	5,761,957.0	2,285,165.8	110.10				Average	
		point88	88	5,762,088.5	2,285,153.8	111.30				Average	
		point89	89	5,762,217.0	2,285,142.2	111.90				Average	
		point90	90	5,762,335.0	2,285,106.5	113.70				Average	
		point91	91	5,762,461.5	2,285,038.5	117.20					
Higuera NB	24.0	point147	147	5,761,753.0	2,283,727.0	118.90				Average	
		point118	118	5,761,806.5	2,283,815.8	118.90				Average	
		point117	117	5,761,858.5	2,283,905.8	118.90				Average	
		point116	116	5,761,903.5	2,283,981.5	118.90				Average	
		point115	115	5,761,949.5	2,284,062.8	118.90				Average	
		point114	114	5,761,999.0	2,284,148.8	118.90				Average	
		point113	113	5,762,054.0	2,284,240.8	118.90				Average	
		point112	112	5,762,103.0	2,284,323.2	118.90				Average	
		point111	111	5,762,154.5	2,284,413.0	118.90				Average	
		point110	110	5,762,202.5	2,284,492.5	119.10				Average	
		point109	109	5,762,257.5	2,284,584.5	119.40				Average	
		point108	108	5,762,307.0	2,284,663.8	118.80				Average	
		point107	107	5,762,362.5	2,284,755.8	118.30				Average	
		point106	106	5,762,415.5	2,284,844.0	118.90				Average	
		point105	105	5,762,460.0	2,284,923.5	117.90				Average	
		point104	104	5,762,514.5	2,285,015.5	117.70				Average	
		point103	103	5,762,558.0	2,285,095.8	117.80				Average	
		point102	102	5,762,604.0	2,285,176.5	117.80				Average	
		point101	101	5,762,651.0	2,285,258.8	117.50				Average	
		point100	100	5,762,701.5	2,285,337.8	117.00				Average	
		point99	99	5,762,762.0	2,285,431.5	117.70				Average	
		point98	98	5,762,806.0	2,285,508.0	117.20				Average	
		point97	97	5,762,851.0	2,285,596.5	117.30				Average	

		point96	96	5,762,903.5	2,285,695.0	118.10				Average	
		point95	95	5,762,965.0	2,285,810.2	117.70				Average	
		point94	94	5,763,029.5	2,285,932.2	117.80				Average	
		point93	93	5,763,084.0	2,286,038.2	117.80				Average	
		point92	92	5,763,139.0	2,286,119.5	117.80					
Higuera SB	24.0	point119	119	5,763,111.5	2,286,133.5	117.80				Average	
		point120	120	5,763,057.0	2,286,052.2	117.80				Average	
		point121	121	5,763,002.0	2,285,946.2	117.80				Average	
		point122	122	5,762,937.5	2,285,824.2	117.70				Average	
		point123	123	5,762,876.0	2,285,709.0	118.10				Average	
		point124	124	5,762,824.0	2,285,610.5	117.30				Average	
		point125	125	5,762,778.5	2,285,521.8	117.20				Average	
		point126	126	5,762,736.5	2,285,445.5	117.70				Average	
		point127	127	5,762,681.0	2,285,347.5	117.00				Average	
		point128	128	5,762,634.5	2,285,270.5	117.50				Average	
		point129	129	5,762,583.5	2,285,186.0	117.80				Average	
		point130	130	5,762,537.5	2,285,105.5	117.80				Average	
		point131	131	5,762,494.0	2,285,025.2	117.70				Average	
		point132	132	5,762,438.0	2,284,936.5	117.90				Average	
		point133	133	5,762,394.0	2,284,856.2	118.00				Average	
		point134	134	5,762,343.5	2,284,766.5	118.30				Average	
		point135	135	5,762,291.5	2,284,671.2	118.80				Average	
		point136	136	5,762,245.5	2,284,589.5	119.40				Average	
		point137	137	5,762,194.0	2,284,498.0	119.10				Average	
		point138	138	5,762,146.0	2,284,418.5	118.90				Average	
		point139	139	5,762,094.5	2,284,328.5	118.90				Average	
		point140	140	5,762,045.5	2,284,246.2	118.90				Average	
		point141	141	5,761,991.0	2,284,153.2	118.90				Average	
		point142	142	5,761,941.5	2,284,067.0	118.90				Average	
		point143	143	5,761,895.0	2,283,987.0	118.90				Average	
		point144	144	5,761,850.0	2,283,912.8	118.90				Average	
		point145	145	5,761,795.5	2,283,820.8	118.90				Average	
		point146	146	5,761,744.0	2,283,732.0	118.90					
US 101 NB 1	24.0	point238	238	5,760,404.5	2,283,771.2	115.00				Average	
		point159	159	5,760,418.5	2,283,950.0	109.70				Average	
		point158	158	5,760,430.0	2,284,090.5	108.50				Average	
		point157	157	5,760,435.5	2,284,276.0	107.30				Average	
		point156	156	5,760,447.0	2,284,457.2	105.00				Average	
		point155	155	5,760,455.0	2,284,641.2	103.60				Average	

		point154	154	5,760,463.5	2,284,804.5	102.00				Average	
		point153	153	5,760,484.0	2,285,000.2	101.10				Average	
		point152	152	5,760,519.0	2,285,172.5	101.40				Average	
		point151	151	5,760,570.5	2,285,349.0	102.20				Average	
		point150	150	5,760,639.0	2,285,520.5	105.00				Average	
		point149	149	5,760,720.0	2,285,681.8	106.80				Average	
		point148	148	5,760,805.0	2,285,843.5	105.00					
US 101 NB 2	24.0	point171	171	5,760,932.0	2,286,087.2	107.30				Average	
		point170	170	5,761,038.0	2,286,285.0	109.20				Average	
		point169	169	5,761,190.0	2,286,574.5	111.50				Average	
		point168	168	5,761,326.5	2,286,835.5	115.00				Average	
		point167	167	5,761,464.5	2,287,095.2	117.00				Average	
		point166	166	5,761,595.5	2,287,348.2	119.00				Average	
		point165	165	5,761,755.0	2,287,647.8	120.70				Average	
		point164	164	5,761,919.5	2,287,958.8	123.70				Average	
		point163	163	5,762,079.5	2,288,267.8	125.00				Average	
		point162	162	5,762,225.0	2,288,539.8	125.00				Average	
		point161	161	5,762,358.5	2,288,794.5	128.50				Average	
		point160	160	5,762,500.0	2,289,064.8	130.00					
US 101 SB 1	24.0	point173	173	5,760,788.0	2,285,947.2	106.70				Average	
		point174	174	5,760,664.5	2,285,712.0	106.80				Average	
		point175	175	5,760,583.5	2,285,550.8	106.70				Average	
		point176	176	5,760,505.0	2,285,367.5	105.30				Average	
		point177	177	5,760,449.0	2,285,185.8	104.10				Average	
		point178	178	5,760,412.5	2,285,010.0	103.60				Average	
		point179	179	5,760,394.5	2,284,810.5	103.50				Average	
		point180	180	5,760,386.5	2,284,647.5	103.60				Average	
		point181	181	5,760,378.0	2,284,463.2	105.10				Average	
		point182	182	5,760,364.5	2,284,280.8	106.70				Average	
		point183	183	5,760,358.5	2,284,095.2	108.50				Average	
		point184	184	5,760,347.5	2,283,952.2	109.60				Average	
		point237	237	5,760,335.5	2,283,772.5	109.70					
US 101 SB 2	24.0	point186	186	5,762,449.5	2,289,092.5	130.00				Average	
		point187	187	5,762,303.0	2,288,824.8	128.50				Average	
		point188	188	5,762,169.5	2,288,570.0	125.00				Average	
		point189	189	5,762,024.0	2,288,297.8	125.00				Average	
		point190	190	5,761,864.0	2,287,989.0	123.60				Average	
		point191	191	5,761,699.5	2,287,678.0	120.70				Average	
		point192	192	5,761,540.0	2,287,378.5	119.50				Average	

		point193	193	5,761,409.0	2,287,125.2	117.00				Average	
		point194	194	5,761,271.0	2,286,865.8	115.00				Average	
		point195	195	5,761,134.5	2,286,604.5	111.50				Average	
		point196	196	5,760,982.5	2,286,315.2	109.20				Average	
		point197	197	5,760,905.5	2,286,168.0	108.40					
US 101 On-Ramp	12.0	point211	211	5,761,017.5	2,285,577.0	122.40				Average	
		point210	210	5,760,968.5	2,285,523.0	122.10				Average	
		point209	209	5,760,914.0	2,285,466.2	118.00				Average	
		point208	208	5,760,862.5	2,285,419.5	114.60				Average	
		point207	207	5,760,802.0	2,285,393.8	113.30				Average	
		point206	206	5,760,744.5	2,285,404.2	107.90				Average	
		point205	205	5,760,707.5	2,285,431.5	104.70				Average	
		point204	204	5,760,685.0	2,285,478.2	104.50				Average	
		point203	203	5,760,685.0	2,285,529.8	103.40				Average	
		point202	202	5,760,701.5	2,285,587.2	103.40				Average	
		point201	201	5,760,727.5	2,285,642.2	102.50				Average	
		point200	200	5,760,758.5	2,285,705.0	104.50				Average	
		point199	199	5,760,785.0	2,285,760.2	104.80				Average	
		point198	198	5,760,813.5	2,285,816.2	105.30					
US 101 NB Off-Ramp	12.0	point213	213	5,760,460.0	2,284,353.0	106.00				Average	
		point214	214	5,760,472.0	2,284,457.0	105.00				Average	
		point215	215	5,760,481.5	2,284,543.2	104.00				Average	
		point216	216	5,760,496.5	2,284,648.0	102.50				Average	
		point217	217	5,760,508.5	2,284,754.2	103.00				Average	
		point221	221	5,760,524.0	2,284,853.2	104.00				Average	
		point222	222	5,760,555.0	2,284,954.0	105.30				Average	
		point223	223	5,760,596.5	2,285,048.5	106.40				Average	
		point224	224	5,760,651.5	2,285,144.5	107.50				Average	
		point225	225	5,760,716.5	2,285,229.0	108.50				Average	
		point226	226	5,760,779.0	2,285,297.8	110.30				Average	
		point227	227	5,760,846.0	2,285,364.2	114.30				Average	
		point228	228	5,760,910.5	2,285,433.8	117.90				Average	
		point229	229	5,760,975.5	2,285,513.5	121.60				Average	
		point230	230	5,761,027.0	2,285,565.0	120.20					
US 101 SB Off-Ramp	12.0	point236	236	5,760,801.5	2,286,530.5	105.00				Average	
		point235	235	5,760,910.0	2,286,574.0	107.00				Average	
		point234	234	5,761,030.0	2,286,632.5	110.00				Average	
		point233	233	5,761,124.0	2,286,701.8	111.00				Average	
		point232	232	5,761,216.5	2,286,829.5	113.80					

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 09

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
Los Osos Valley WB	point51	51	723	40	36	40	3	35	0	0	0	0
	point50	50	723	40	36	40	3	35	0	0	0	0
	point49	49	723	40	36	40	3	35	0	0	0	0
	point48	48	723	40	36	40	3	35	0	0	0	0
	point47	47	723	40	36	40	3	35	0	0	0	0
	point46	46	723	40	36	40	3	35	0	0	0	0
	point45	45	723	40	36	40	3	35	0	0	0	0
	point44	44	723	40	36	40	3	35	0	0	0	0
	point43	43	723	40	36	40	3	35	0	0	0	0
	point42	42	723	40	36	40	3	35	0	0	0	0
	point41	41	723	40	36	40	3	35	0	0	0	0
	point40	40	723	40	36	40	3	35	0	0	0	0
	point39	39	723	40	36	40	3	35	0	0	0	0
	point38	38	723	40	36	40	3	35	0	0	0	0
	point37	37	723	40	36	40	3	35	0	0	0	0
	point36	36	723	40	36	40	3	35	0	0	0	0
	point35	35	723	40	36	40	3	35	0	0	0	0
	point34	34	723	40	36	40	3	35	0	0	0	0
	point33	33	723	40	36	40	3	35	0	0	0	0
	point32	32	723	40	36	40	3	35	0	0	0	0
	point31	31	723	40	36	40	3	35	0	0	0	0
	point30	30	723	40	36	40	3	35	0	0	0	0
	point29	29	723	40	36	40	3	35	0	0	0	0

	point28	28	723	40	36	40	3	35	0	0	0	0
	point27	27	723	40	36	40	3	35	0	0	0	0
	point26	26	723	40	36	40	3	35	0	0	0	0
	point25	25	723	40	36	40	3	35	0	0	0	0
	point24	24	723	40	36	40	3	35	0	0	0	0
	point23	23	723	40	36	40	3	35	0	0	0	0
	point22	22	723	40	36	40	3	35	0	0	0	0
	point21	21	723	40	36	40	3	35	0	0	0	0
	point20	20	723	40	36	40	3	35	0	0	0	0
	point19	19	723	40	36	40	3	35	0	0	0	0
	point18	18	723	40	36	40	3	35	0	0	0	0
	point17	17	723	40	36	40	3	35	0	0	0	0
	point16	16	723	40	36	40	3	35	0	0	0	0
	point15	15	723	40	36	40	3	35	0	0	0	0
	point14	14	723	40	36	40	3	35	0	0	0	0
	point13	13	723	40	36	40	3	35	0	0	0	0
	point12	12										
Los Osos Valley EB	point52	52	739	40	27	40	35	35	0	0	0	0
	point53	53	739	40	27	40	35	35	0	0	0	0
	point54	54	739	40	27	40	35	35	0	0	0	0
	point55	55	739	40	27	40	35	35	0	0	0	0
	point56	56	739	40	27	40	35	35	0	0	0	0
	point57	57	739	40	27	40	35	35	0	0	0	0
	point58	58	739	40	27	40	35	35	0	0	0	0
	point59	59	739	40	27	40	35	35	0	0	0	0
	point60	60	739	40	27	40	35	35	0	0	0	0
	point61	61	739	40	27	40	35	35	0	0	0	0
	point62	62	739	40	27	40	35	35	0	0	0	0
	point63	63	739	40	27	40	35	35	0	0	0	0
	point64	64	739	40	27	40	35	35	0	0	0	0
	point65	65	739	40	27	40	35	35	0	0	0	0
	point66	66	739	40	27	40	35	35	0	0	0	0
	point67	67	739	40	27	40	35	35	0	0	0	0
	point68	68	739	40	27	40	35	35	0	0	0	0
	point69	69	739	40	27	40	35	35	0	0	0	0

	point70	70	739	40	27	40	35	35	0	0	0	0
	point71	71	739	40	27	40	35	35	0	0	0	0
	point72	72	739	40	27	40	35	35	0	0	0	0
	point73	73	739	40	27	40	35	35	0	0	0	0
	point74	74	739	40	27	40	35	35	0	0	0	0
	point75	75	739	40	27	40	35	35	0	0	0	0
	point76	76	739	40	27	40	35	35	0	0	0	0
	point77	77	739	40	27	40	35	35	0	0	0	0
	point78	78	739	40	27	40	35	35	0	0	0	0
	point79	79	739	40	27	40	35	35	0	0	0	0
	point80	80	739	40	27	40	35	35	0	0	0	0
	point81	81	739	40	27	40	35	35	0	0	0	0
	point82	82	739	40	27	40	35	35	0	0	0	0
	point83	83	739	40	27	40	35	35	0	0	0	0
	point84	84	739	40	27	40	35	35	0	0	0	0
	point85	85	739	40	27	40	35	35	0	0	0	0
	point86	86	739	40	27	40	35	35	0	0	0	0
	point87	87	739	40	27	40	35	35	0	0	0	0
	point88	88	739	40	27	40	35	35	0	0	0	0
	point89	89	739	40	27	40	35	35	0	0	0	0
	point90	90	739	40	27	40	35	35	0	0	0	0
	point91	91										
Higuera NB	point147	147	244	40	12	40	8	35	0	0	0	0
	point118	118	244	40	12	40	8	35	0	0	0	0
	point117	117	244	40	12	40	8	35	0	0	0	0
	point116	116	244	40	12	40	8	35	0	0	0	0
	point115	115	244	40	12	40	8	35	0	0	0	0
	point114	114	244	40	12	40	8	35	0	0	0	0
	point113	113	244	40	12	40	8	35	0	0	0	0
	point112	112	244	40	12	40	8	35	0	0	0	0
	point111	111	244	40	12	40	8	35	0	0	0	0
	point110	110	244	40	12	40	8	35	0	0	0	0
	point109	109	244	40	12	40	8	35	0	0	0	0
	point108	108	244	40	12	40	8	35	0	0	0	0
	point107	107	244	40	12	40	8	35	0	0	0	0

	point106	106	244	40	12	40	8	35	0	0	0	0
	point105	105	244	40	12	40	8	35	0	0	0	0
	point104	104	244	40	12	40	8	35	0	0	0	0
	point103	103	244	40	12	40	8	35	0	0	0	0
	point102	102	244	40	12	40	8	35	0	0	0	0
	point101	101	244	40	12	40	8	35	0	0	0	0
	point100	100	244	40	12	40	8	35	0	0	0	0
	point99	99	244	40	12	40	8	35	0	0	0	0
	point98	98	244	40	12	40	8	35	0	0	0	0
	point97	97	244	40	12	40	8	35	0	0	0	0
	point96	96	244	40	12	40	8	35	0	0	0	0
	point95	95	244	40	12	40	8	35	0	0	0	0
	point94	94	244	40	12	40	8	35	0	0	0	0
	point93	93	244	40	12	40	8	35	0	0	0	0
	point92	92										
Higuera SB	point119	119	244	40	12	40	8	35	0	0	0	0
	point120	120	244	40	12	40	8	35	0	0	0	0
	point121	121	244	40	12	40	8	35	0	0	0	0
	point122	122	244	40	12	40	8	35	0	0	0	0
	point123	123	244	40	12	40	8	35	0	0	0	0
	point124	124	244	40	12	40	8	35	0	0	0	0
	point125	125	244	40	12	40	8	35	0	0	0	0
	point126	126	244	40	12	40	8	35	0	0	0	0
	point127	127	244	40	12	40	8	35	0	0	0	0
	point128	128	244	40	12	40	8	35	0	0	0	0
	point129	129	244	40	12	40	8	35	0	0	0	0
	point130	130	244	40	12	40	8	35	0	0	0	0
	point131	131	244	40	12	40	8	35	0	0	0	0
	point132	132	244	40	12	40	8	35	0	0	0	0
	point133	133	244	40	12	40	8	35	0	0	0	0
	point134	134	244	40	12	40	8	35	0	0	0	0
	point135	135	244	40	12	40	8	35	0	0	0	0
	point136	136	244	40	12	40	8	35	0	0	0	0
	point137	137	244	40	12	40	8	35	0	0	0	0
	point138	138	244	40	12	40	8	35	0	0	0	0

	point139	139	244	40	12	40	8	35	0	0	0	0
	point140	140	244	40	12	40	8	35	0	0	0	0
	point141	141	244	40	12	40	8	35	0	0	0	0
	point142	142	244	40	12	40	8	35	0	0	0	0
	point143	143	244	40	12	40	8	35	0	0	0	0
	point144	144	244	40	12	40	8	35	0	0	0	0
	point145	145	244	40	12	40	8	35	0	0	0	0
	point146	146										
US 101 NB 1	point238	238	1676	65	72	65	32	60	0	0	0	0
	point159	159	1676	65	72	65	32	60	0	0	0	0
	point158	158	1676	65	72	65	32	60	0	0	0	0
	point157	157	1676	65	72	65	32	60	0	0	0	0
	point156	156	1676	65	72	65	32	60	0	0	0	0
	point155	155	1676	65	72	65	32	60	0	0	0	0
	point154	154	1676	65	72	65	32	60	0	0	0	0
	point153	153	1676	65	72	65	32	60	0	0	0	0
	point152	152	1676	65	72	65	32	60	0	0	0	0
	point151	151	1676	65	72	65	32	60	0	0	0	0
	point150	150	1676	65	72	65	32	60	0	0	0	0
	point149	149	1676	65	72	65	32	60	0	0	0	0
	point148	148										
US 101 NB 2	point171	171	1676	65	72	65	32	60	0	0	0	0
	point170	170	1676	65	72	65	32	60	0	0	0	0
	point169	169	1676	65	72	65	32	60	0	0	0	0
	point168	168	1676	65	72	65	32	60	0	0	0	0
	point167	167	1676	65	72	65	32	60	0	0	0	0
	point166	166	1676	65	72	65	32	60	0	0	0	0
	point165	165	1676	65	72	65	32	60	0	0	0	0
	point164	164	1676	65	72	65	32	60	0	0	0	0
	point163	163	1676	65	72	65	32	60	0	0	0	0
	point162	162	1676	65	72	65	32	60	0	0	0	0
	point161	161	1676	65	72	65	32	60	0	0	0	0
	point160	160										
US 101 SB 1	point173	173	2328	65	36	65	88	60	0	0	0	0
	point174	174	2328	65	36	65	88	60	0	0	0	0

	point175	175	2328	65	36	65	88	60	0	0	0	0
	point176	176	2328	65	36	65	88	60	0	0	0	0
	point177	177	2328	65	36	65	88	60	0	0	0	0
	point178	178	2328	65	36	65	88	60	0	0	0	0
	point179	179	2328	65	36	65	88	60	0	0	0	0
	point180	180	2328	65	36	65	88	60	0	0	0	0
	point181	181	2328	65	36	65	88	60	0	0	0	0
	point182	182	2328	65	36	65	88	60	0	0	0	0
	point183	183	2328	65	36	65	88	60	0	0	0	0
	point184	184	2328	65	36	65	88	60	0	0	0	0
	point237	237										
US 101 SB 2	point186	186	2328	65	36	65	88	60	0	0	0	0
	point187	187	2328	65	36	65	88	60	0	0	0	0
	point188	188	2328	65	36	65	88	60	0	0	0	0
	point189	189	2328	65	36	65	88	60	0	0	0	0
	point190	190	2328	65	36	65	88	60	0	0	0	0
	point191	191	2328	65	36	65	88	60	0	0	0	0
	point192	192	2328	65	36	65	88	60	0	0	0	0
	point193	193	2328	65	36	65	88	60	0	0	0	0
	point194	194	2328	65	36	65	88	60	0	0	0	0
	point195	195	2328	65	36	65	88	60	0	0	0	0
	point196	196	2328	65	36	65	88	60	0	0	0	0
	point197	197										
US 101 On-Ramp	point211	211	0	0	0	0	0	0	0	0	0	0
	point210	210	0	0	0	0	0	0	0	0	0	0
	point209	209	0	0	0	0	0	0	0	0	0	0
	point208	208	0	0	0	0	0	0	0	0	0	0
	point207	207	0	0	0	0	0	0	0	0	0	0
	point206	206	0	0	0	0	0	0	0	0	0	0
	point205	205	0	0	0	0	0	0	0	0	0	0
	point204	204	0	0	0	0	0	0	0	0	0	0
	point203	203	0	0	0	0	0	0	0	0	0	0
	point202	202	0	0	0	0	0	0	0	0	0	0
	point201	201	0	0	0	0	0	0	0	0	0	0
	point200	200	0	0	0	0	0	0	0	0	0	0

	point199	199	0	0	0	0	0	0	0	0	0	0
	point198	198										
US 101 NB Off-Ramp	point213	213	560	45	12	45	0	0	0	0	0	0
	point214	214	560	45	12	45	0	0	0	0	0	0
	point215	215	560	45	12	45	0	0	0	0	0	0
	point216	216	560	45	12	45	0	0	0	0	0	0
	point217	217	560	45	12	45	0	0	0	0	0	0
	point221	221	560	45	12	45	0	0	0	0	0	0
	point222	222	560	45	12	45	0	0	0	0	0	0
	point223	223	560	45	12	45	0	0	0	0	0	0
	point224	224	560	45	12	45	0	0	0	0	0	0
	point225	225	560	45	12	45	0	0	0	0	0	0
	point226	226	560	45	12	45	0	0	0	0	0	0
	point227	227	560	45	12	45	0	0	0	0	0	0
	point228	228	560	45	12	45	0	0	0	0	0	0
	point229	229	560	45	12	45	0	0	0	0	0	0
	point230	230										
US 101 SB Off-Ramp	point236	236	0	0	0	0	0	0	0	0	0	0
	point235	235	0	0	0	0	0	0	0	0	0	0
	point234	234	0	0	0	0	0	0	0	0	0	0
	point233	233	0	0	0	0	0	0	0	0	0	0
	point232	232										

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2 September 2006
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 09

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
M-9	9	1	5,761,821.5	2,286,087.0	111.40	5.00	0.00	66	12.0	8.0	Y

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2 September 2006
TNM 2.5

INPUT: TERRAIN LINES
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Calibration 09

Terrain Line Name	Points No.	Coordinates (ground) X ft	Y ft	Z ft
Los Oso Valley WB	40	5,762,477.0	2,285,082.2	117.20
	39	5,762,347.5	2,285,152.0	113.70
	38	5,762,225.0	2,285,186.0	111.90
	37	5,762,093.0	2,285,199.2	111.10
	36	5,761,961.5	2,285,212.2	110.10
	35	5,761,817.5	2,285,224.0	109.40
	34	5,761,685.0	2,285,238.0	108.80
	33	5,761,553.5	2,285,256.2	108.40
	32	5,761,436.5	2,285,289.8	108.60
	31	5,761,343.0	2,285,340.2	109.30
	30	5,761,255.5	2,285,404.0	110.80
	29	5,761,176.0	2,285,469.5	114.60
	28	5,761,108.0	2,285,552.5	120.20
	27	5,761,043.5	2,285,660.2	120.30
	26	5,760,995.5	2,285,775.8	126.10
	25	5,760,956.0	2,285,887.2	127.30
	24	5,760,917.5	2,285,997.0	129.80
	23	5,760,881.5	2,286,104.2	129.60
	22	5,760,835.5	2,286,242.2	127.40
	21	5,760,800.5	2,286,351.8	119.80
	20	5,760,754.5	2,286,488.8	112.10
	19	5,760,735.5	2,286,603.0	109.20
	18	5,760,700.0	2,286,744.0	108.30
	17	5,760,649.5	2,286,882.5	108.10

	16	5,760,601.5	2,287,001.8	110.20
	15	5,760,559.0	2,287,105.2	109.40
	14	5,760,506.0	2,287,222.2	111.80
	13	5,760,454.5	2,287,334.2	112.70
	12	5,760,398.0	2,287,440.5	112.10
	11	5,760,338.5	2,287,548.5	113.40
	10	5,760,273.5	2,287,659.2	115.30
	9	5,760,200.0	2,287,776.2	114.90
	8	5,760,129.0	2,287,887.0	115.40
	7	5,760,069.0	2,287,981.0	116.90
	6	5,760,000.5	2,288,084.8	117.60
	5	5,759,937.0	2,288,186.0	117.20
	4	5,759,869.5	2,288,284.5	117.20
	3	5,759,804.0	2,288,382.0	117.20
	2	5,759,747.5	2,288,466.2	117.20
	1	5,759,689.5	2,288,554.2	117.20
Los Oso Valley EB	80	5,762,455.0	2,285,023.5	117.20
	79	5,762,332.0	2,285,097.2	113.70
	78	5,762,216.5	2,285,132.0	111.90
	77	5,762,088.0	2,285,145.0	111.30
	76	5,761,956.5	2,285,155.5	110.10
	75	5,761,812.5	2,285,167.8	109.40
	74	5,761,679.5	2,285,178.8	108.80
	73	5,761,543.0	2,285,207.0	108.40
	72	5,761,422.5	2,285,260.0	108.60
	71	5,761,326.5	2,285,312.0	109.30
	70	5,761,236.5	2,285,373.0	110.80
	69	5,761,152.0	2,285,444.0	114.60
	68	5,761,078.0	2,285,523.0	120.20
	67	5,761,004.0	2,285,639.5	120.30
	66	5,760,959.5	2,285,762.5	126.10
	65	5,760,921.5	2,285,874.0	127.30
	64	5,760,883.0	2,285,983.5	129.80
	63	5,760,843.5	2,286,093.0	129.60
	62	5,760,795.5	2,286,231.8	127.40

	61	5,760,757.5	2,286,343.0	119.80
	60	5,760,704.5	2,286,471.8	112.10
	59	5,760,673.0	2,286,583.2	109.20
	58	5,760,626.0	2,286,717.0	108.30
	57	5,760,583.0	2,286,857.0	108.10
	56	5,760,541.0	2,286,979.0	110.20
	55	5,760,497.0	2,287,082.0	109.40
	54	5,760,441.0	2,287,194.0	111.80
	53	5,760,389.0	2,287,301.8	112.70
	52	5,760,335.0	2,287,409.0	112.10
	51	5,760,273.5	2,287,516.2	113.40
	50	5,760,209.0	2,287,621.2	115.30
	49	5,760,135.5	2,287,738.0	114.90
	48	5,760,064.5	2,287,848.8	115.40
	47	5,760,005.0	2,287,936.5	116.90
	46	5,759,933.0	2,288,037.5	117.60
	45	5,759,864.0	2,288,138.8	117.20
	44	5,759,793.0	2,288,237.5	117.20
	43	5,759,725.0	2,288,335.5	117.20
	42	5,759,668.5	2,288,419.8	117.20
	41	5,759,610.5	2,288,507.5	117.20
Higuera NB	110	5,761,764.5	2,283,719.0	118.90
	109	5,761,817.5	2,283,807.8	118.90
	108	5,761,870.0	2,283,897.8	118.90
	107	5,761,914.5	2,283,973.5	118.90
	106	5,761,960.5	2,284,054.8	118.90
	105	5,762,010.0	2,284,141.0	118.90
	104	5,762,065.0	2,284,233.0	118.90
	103	5,762,114.0	2,284,315.2	118.90
	102	5,762,165.5	2,284,405.0	118.90
	101	5,762,213.5	2,284,484.5	119.10
	100	5,762,268.5	2,284,576.5	119.40
	99	5,762,318.0	2,284,655.8	118.80
	98	5,762,374.0	2,284,747.8	118.30
	97	5,762,426.5	2,284,836.0	118.90

	96	5,762,471.5	2,284,915.5	117.90
	95	5,762,525.5	2,285,007.5	117.70
	94	5,762,569.0	2,285,087.8	117.80
	93	5,762,615.0	2,285,168.5	117.80
	92	5,762,662.5	2,285,250.8	117.50
	91	5,762,713.0	2,285,330.0	117.00
	90	5,762,773.0	2,285,423.5	117.70
	89	5,762,817.0	2,285,500.0	117.20
	88	5,762,862.5	2,285,588.5	117.30
	87	5,762,914.5	2,285,687.0	118.10
	86	5,762,976.0	2,285,802.2	117.70
	85	5,763,040.5	2,285,924.5	117.80
	84	5,763,095.5	2,286,030.2	117.80
	83	5,763,150.5	2,286,111.5	117.80
Higuera SB	139	5,761,733.5	2,283,737.5	118.90
	138	5,761,785.5	2,283,826.2	118.90
	137	5,761,839.5	2,283,918.2	118.90
	136	5,761,885.0	2,283,992.5	118.90
	135	5,761,931.0	2,284,072.8	118.90
	134	5,761,980.5	2,284,158.8	118.90
	133	5,762,035.0	2,284,251.8	118.90
	132	5,762,084.0	2,284,334.0	118.90
	131	5,762,135.5	2,284,424.0	118.90
	130	5,762,183.5	2,284,503.5	119.10
	129	5,762,235.0	2,284,595.0	119.40
	128	5,762,281.5	2,284,677.0	118.80
	127	5,762,333.0	2,284,772.0	118.30
	126	5,762,383.5	2,284,862.0	118.00
	125	5,762,427.5	2,284,942.0	117.90
	124	5,762,483.5	2,285,031.0	117.70
	123	5,762,527.0	2,285,111.0	117.80
	122	5,762,573.0	2,285,191.8	117.80
	121	5,762,624.0	2,285,276.2	117.50
	120	5,762,671.0	2,285,353.0	117.00
	119	5,762,726.5	2,285,451.0	117.70

	118	5,762,768.0	2,285,527.5	117.20
	117	5,762,813.5	2,285,616.2	117.30
	116	5,762,865.5	2,285,714.8	118.10
	115	5,762,927.0	2,285,829.8	117.70
	114	5,762,991.5	2,285,952.0	117.80
	113	5,763,046.5	2,286,058.0	117.80
	112	5,763,101.0	2,286,139.2	117.80
US 101 NB Off-Ramp	220	5,761,039.0	2,285,548.0	120.20
	219	5,760,990.0	2,285,500.5	121.60
	218	5,760,919.5	2,285,427.0	117.90
	217	5,760,854.5	2,285,357.2	114.30
	216	5,760,787.5	2,285,291.0	110.30
	215	5,760,725.0	2,285,222.2	108.50
	214	5,760,660.5	2,285,137.5	107.50
	213	5,760,605.5	2,285,041.5	106.40
	212	5,760,563.5	2,284,947.2	105.30
	211	5,760,533.0	2,284,846.5	104.00
	210	5,760,517.5	2,284,747.5	103.00
	209	5,760,505.5	2,284,641.2	102.50
	208	5,760,490.0	2,284,536.5	104.00
	207	5,760,480.5	2,284,450.2	105.00
	206	5,760,468.5	2,284,346.2	106.00
US 101 SB Off-Ramp	225	5,760,796.0	2,286,543.5	105.00
	224	5,760,904.5	2,286,587.2	107.00
	223	5,761,024.5	2,286,645.8	110.00
	222	5,761,120.0	2,286,707.2	111.00
	221	5,761,207.0	2,286,834.5	113.80
US 101 NB 1	238	5,760,423.5	2,283,770.0	115.00
	237	5,760,437.5	2,283,950.0	109.70
	236	5,760,446.5	2,284,089.2	108.50
	235	5,760,449.0	2,284,274.2	107.30
	234	5,760,457.0	2,284,457.5	105.00
	233	5,760,468.0	2,284,638.2	103.60
	232	5,760,479.5	2,284,804.5	102.00
	231	5,760,499.0	2,284,998.0	101.10

	230	5,760,535.5	2,285,170.0	101.40
	229	5,760,586.0	2,285,341.0	102.20
	228	5,760,654.5	2,285,515.0	105.00
	227	5,760,737.0	2,285,673.0	106.80
	226	5,760,821.5	2,285,835.0	105.00
US 101 NB 2	250	5,760,948.5	2,286,078.5	107.30
	249	5,761,054.5	2,286,276.2	109.20
	248	5,761,206.5	2,286,565.8	111.50
	247	5,761,343.0	2,286,827.0	115.00
	246	5,761,481.0	2,287,086.5	117.00
	245	5,761,612.0	2,287,339.5	119.00
	244	5,761,771.5	2,287,639.0	120.70
	243	5,761,936.5	2,287,950.0	123.70
	242	5,762,096.5	2,288,259.0	125.00
	241	5,762,241.5	2,288,531.0	125.00
	240	5,762,375.5	2,288,785.8	128.50
	239	5,762,516.5	2,289,056.0	130.00
US 101 SB 1	263	5,760,312.5	2,283,773.8	109.70
	262	5,760,332.0	2,283,954.5	109.60
	261	5,760,339.0	2,284,096.0	108.50
	260	5,760,344.5	2,284,281.5	106.70
	259	5,760,355.5	2,284,464.8	105.10
	258	5,760,364.0	2,284,648.8	103.60
	257	5,760,375.5	2,284,812.5	103.50
	256	5,760,393.5	2,285,012.0	103.60
	255	5,760,431.5	2,285,191.0	104.10
	254	5,760,486.5	2,285,377.0	105.30
	253	5,760,565.0	2,285,560.5	106.70
	252	5,760,646.0	2,285,721.5	106.80
	251	5,760,769.5	2,285,957.0	106.70
US 101 SB 2	275	5,760,886.5	2,286,177.8	108.40
	274	5,760,964.0	2,286,324.8	109.20
	273	5,761,116.0	2,286,614.2	111.50
	272	5,761,252.0	2,286,875.5	115.00
	271	5,761,390.0	2,287,135.0	117.00

	270	5,761,521.5	2,287,388.0	119.50
	269	5,761,681.0	2,287,687.5	120.70
	268	5,761,845.5	2,287,998.5	123.60
	267	5,762,005.5	2,288,307.5	125.00
	266	5,762,150.5	2,288,579.5	125.00
	265	5,762,284.5	2,288,834.2	128.50
	264	5,762,430.5	2,289,102.0	130.00

APPENDIX B

TRAFFIC NOISE MODEL (TNM) 2.5 PRINTOUTS FOR EXISTING CONDITIONS

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
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		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Higuera NB	24.0	point147	147	5,761,753.0	2,283,727.0	118.90				Average	
		point118	118	5,761,806.5	2,283,815.8	118.90				Average	
		point117	117	5,761,858.5	2,283,905.8	118.90				Average	
		point116	116	5,761,903.5	2,283,981.5	118.90				Average	
		point115	115	5,761,949.5	2,284,062.8	118.90				Average	
		point114	114	5,761,999.0	2,284,148.8	118.90				Average	
		point113	113	5,762,054.0	2,284,240.8	118.90				Average	
		point112	112	5,762,103.0	2,284,323.2	118.90				Average	
		point111	111	5,762,154.5	2,284,413.0	118.90				Average	
		point110	110	5,762,202.5	2,284,492.5	119.10				Average	
		point109	109	5,762,257.5	2,284,584.5	119.40				Average	
		point108	108	5,762,307.0	2,284,663.8	118.80				Average	
		point107	107	5,762,362.5	2,284,755.8	118.30				Average	
		point106	106	5,762,415.5	2,284,844.0	118.90				Average	
		point105	105	5,762,460.0	2,284,923.5	117.90				Average	
		point104	104	5,762,514.5	2,285,015.5	117.70				Average	
		point103	103	5,762,558.0	2,285,095.8	117.80				Average	
		point102	102	5,762,604.0	2,285,176.5	117.80				Average	
		point101	101	5,762,651.0	2,285,258.8	117.50				Average	
		point100	100	5,762,701.5	2,285,337.8	117.00				Average	
		point99	99	5,762,762.0	2,285,431.5	117.70				Average	
		point98	98	5,762,806.0	2,285,508.0	117.20				Average	
		point97	97	5,762,851.0	2,285,596.5	117.30				Average	
		point96	96	5,762,903.5	2,285,695.0	118.10				Average	
		point95	95	5,762,965.0	2,285,810.2	117.70				Average	

		point94	94	5,763,029.5	2,285,932.2	117.80				Average	
		point93	93	5,763,084.0	2,286,038.2	117.80				Average	
		point92	92	5,763,139.0	2,286,119.5	117.80					
Higuera SB	24.0	point119	119	5,763,111.5	2,286,133.5	117.80				Average	
		point120	120	5,763,057.0	2,286,052.2	117.80				Average	
		point121	121	5,763,002.0	2,285,946.2	117.80				Average	
		point122	122	5,762,937.5	2,285,824.2	117.70				Average	
		point123	123	5,762,876.0	2,285,709.0	118.10				Average	
		point124	124	5,762,824.0	2,285,610.5	117.30				Average	
		point125	125	5,762,778.5	2,285,521.8	117.20				Average	
		point126	126	5,762,736.5	2,285,445.5	117.70				Average	
		point127	127	5,762,681.0	2,285,347.5	117.00				Average	
		point128	128	5,762,634.5	2,285,270.5	117.50				Average	
		point129	129	5,762,583.5	2,285,186.0	117.80				Average	
		point130	130	5,762,537.5	2,285,105.5	117.80				Average	
		point131	131	5,762,494.0	2,285,025.2	117.70				Average	
		point132	132	5,762,438.0	2,284,936.5	117.90				Average	
		point133	133	5,762,394.0	2,284,856.2	118.00				Average	
		point134	134	5,762,343.5	2,284,766.5	118.30				Average	
		point135	135	5,762,291.5	2,284,671.2	118.80				Average	
		point136	136	5,762,245.5	2,284,589.5	119.40				Average	
		point137	137	5,762,194.0	2,284,498.0	119.10				Average	
		point138	138	5,762,146.0	2,284,418.5	118.90				Average	
		point139	139	5,762,094.5	2,284,328.5	118.90				Average	
		point140	140	5,762,045.5	2,284,246.2	118.90				Average	
		point141	141	5,761,991.0	2,284,153.2	118.90				Average	
		point142	142	5,761,941.5	2,284,067.0	118.90				Average	
		point143	143	5,761,895.0	2,283,987.0	118.90				Average	
		point144	144	5,761,850.0	2,283,912.8	118.90				Average	
		point145	145	5,761,795.5	2,283,820.8	118.90				Average	
		point146	146	5,761,744.0	2,283,732.0	118.90					
US 101 NB 1	24.0	point238	238	5,760,404.5	2,283,771.2	115.00				Average	
		point159	159	5,760,418.5	2,283,950.0	109.70				Average	
		point158	158	5,760,430.0	2,284,090.5	108.50				Average	
		point157	157	5,760,435.5	2,284,276.0	107.30				Average	
		point156	156	5,760,447.0	2,284,457.2	105.00				Average	
		point155	155	5,760,455.0	2,284,641.2	103.60				Average	
		point154	154	5,760,463.5	2,284,804.5	102.00				Average	
		point153	153	5,760,484.0	2,285,000.2	101.10				Average	

		point152	152	5,760,519.0	2,285,172.5	101.40				Average	
		point151	151	5,760,570.5	2,285,349.0	102.20				Average	
		point150	150	5,760,639.0	2,285,520.5	105.00				Average	
		point149	149	5,760,720.0	2,285,681.8	106.80				Average	
		point148	148	5,760,805.0	2,285,843.5	105.00					
US 101 NB 2	24.0	point171	171	5,760,932.0	2,286,087.2	107.30				Average	
		point170	170	5,761,038.0	2,286,285.0	109.20				Average	
		point169	169	5,761,190.0	2,286,574.5	111.50				Average	
		point168	168	5,761,326.5	2,286,835.5	115.00				Average	
		point167	167	5,761,464.5	2,287,095.2	117.00				Average	
		point166	166	5,761,595.5	2,287,348.2	119.00				Average	
		point165	165	5,761,755.0	2,287,647.8	120.70				Average	
		point164	164	5,761,919.5	2,287,958.8	123.70				Average	
		point163	163	5,762,079.5	2,288,267.8	125.00				Average	
		point162	162	5,762,225.0	2,288,539.8	125.00				Average	
		point161	161	5,762,358.5	2,288,794.5	128.50				Average	
		point160	160	5,762,500.0	2,289,064.8	130.00					
US 101 SB 1	24.0	point173	173	5,760,788.0	2,285,947.2	106.70				Average	
		point174	174	5,760,664.5	2,285,712.0	106.80				Average	
		point175	175	5,760,583.5	2,285,550.8	106.70				Average	
		point176	176	5,760,505.0	2,285,367.5	105.30				Average	
		point177	177	5,760,449.0	2,285,185.8	104.10				Average	
		point178	178	5,760,412.5	2,285,010.0	103.60				Average	
		point179	179	5,760,394.5	2,284,810.5	103.50				Average	
		point180	180	5,760,386.5	2,284,647.5	103.60				Average	
		point181	181	5,760,378.0	2,284,463.2	105.10				Average	
		point182	182	5,760,364.5	2,284,280.8	106.70				Average	
		point183	183	5,760,358.5	2,284,095.2	108.50				Average	
		point184	184	5,760,347.5	2,283,952.2	109.60				Average	
		point237	237	5,760,335.5	2,283,772.5	109.70					
US 101 SB 2	24.0	point186	186	5,762,449.5	2,289,092.5	130.00				Average	
		point187	187	5,762,303.0	2,288,824.8	128.50				Average	
		point188	188	5,762,169.5	2,288,570.0	125.00				Average	
		point189	189	5,762,024.0	2,288,297.8	125.00				Average	
		point190	190	5,761,864.0	2,287,989.0	123.60				Average	
		point191	191	5,761,699.5	2,287,678.0	120.70				Average	
		point192	192	5,761,540.0	2,287,378.5	119.50				Average	
		point193	193	5,761,409.0	2,287,125.2	117.00				Average	
		point194	194	5,761,271.0	2,286,865.8	115.00				Average	

		point195	195	5,761,134.5	2,286,604.5	111.50				Average	
		point196	196	5,760,982.5	2,286,315.2	109.20				Average	
		point197	197	5,760,905.5	2,286,168.0	108.40					
US 101 NB Loop On Ramp	12.0	point211	211	5,761,017.5	2,285,577.0	122.40				Average	
		point210	210	5,760,968.5	2,285,523.0	122.10				Average	
		point209	209	5,760,914.0	2,285,466.2	118.00				Average	
		point208	208	5,760,862.5	2,285,419.5	114.60				Average	
		point207	207	5,760,802.0	2,285,393.8	113.30				Average	
		point206	206	5,760,744.5	2,285,404.2	107.90				Average	
		point205	205	5,760,707.5	2,285,431.5	104.70				Average	
		point204	204	5,760,685.0	2,285,478.2	104.50				Average	
		point203	203	5,760,685.0	2,285,529.8	103.40				Average	
		point202	202	5,760,701.5	2,285,587.2	103.40				Average	
		point201	201	5,760,727.5	2,285,642.2	102.50				Average	
		point200	200	5,760,758.5	2,285,705.0	104.50				Average	
		point199	199	5,760,785.0	2,285,760.2	104.80				Average	
		point198	198	5,760,813.5	2,285,816.2	105.30					
US 101 NB Off Ramp	12.0	point213	213	5,760,460.0	2,284,353.0	106.00				Average	
		point214	214	5,760,472.0	2,284,457.0	105.00				Average	
		point215	215	5,760,481.5	2,284,543.2	104.00				Average	
		point216	216	5,760,496.5	2,284,648.0	102.50				Average	
		point217	217	5,760,508.5	2,284,754.2	103.00				Average	
		point221	221	5,760,524.0	2,284,853.2	104.00				Average	
		point222	222	5,760,555.0	2,284,954.0	105.30				Average	
		point223	223	5,760,596.5	2,285,048.5	106.40				Average	
		point224	224	5,760,651.5	2,285,144.5	107.50				Average	
		point225	225	5,760,716.5	2,285,229.0	108.50				Average	
		point226	226	5,760,779.0	2,285,297.8	110.30				Average	
		point227	227	5,760,846.0	2,285,364.2	114.30				Average	
		point228	228	5,760,910.5	2,285,433.8	117.90				Average	
		point229	229	5,760,975.5	2,285,513.5	121.60				Average	
		point230	230	5,761,027.0	2,285,565.0	120.20					
US 101 SB Off Ramp	12.0	point232	232	5,761,216.5	2,286,829.5	113.80				Average	
		point233	233	5,761,124.0	2,286,701.8	111.00				Average	
		point234	234	5,761,030.0	2,286,632.5	110.00				Average	
		point235	235	5,760,910.0	2,286,574.0	107.00				Average	
		point236	236	5,760,801.5	2,286,530.5	105.00					
Los Osos Valley WB 1	12.0	point251	251	5,762,472.0	2,285,071.2	117.20				Average	
		point250	250	5,762,344.5	2,285,142.2	113.70				Average	

		point249	249	5,762,223.5	2,285,174.5	111.90				Average	
		point248	248	5,762,092.0	2,285,186.8	111.10				Average	
		point247	247	5,761,960.5	2,285,198.8	110.10				Average	
		point246	246	5,761,816.5	2,285,211.0	109.40				Average	
		point245	245	5,761,684.5	2,285,224.8	108.80				Average	
		point244	244	5,761,549.5	2,285,241.5	108.40				Average	
		point243	243	5,761,433.0	2,285,282.5	108.60				Average	
		point242	242	5,761,339.0	2,285,333.2	109.30				Average	
		point241	241	5,761,250.0	2,285,395.8	110.80				Average	
		point240	240	5,761,169.0	2,285,462.0	114.60				Average	
		point239	239	5,761,095.5	2,285,544.0	120.20					
Los Osos Valley WB 2	12.0	point260	260	5,761,095.5	2,285,544.0	120.20				Average	
		point259	259	5,761,030.5	2,285,654.8	120.30				Average	
		point258	258	5,760,982.5	2,285,770.2	126.10				Average	
		point257	257	5,760,947.5	2,285,882.2	127.30				Average	
		point256	256	5,760,909.0	2,285,992.0	129.80				Average	
		point255	255	5,760,871.5	2,286,100.2	129.60				Average	
		point254	254	5,760,822.5	2,286,238.8	127.40				Average	
		point253	253	5,760,787.5	2,286,348.5	119.80				Average	
		point252	252	5,760,743.0	2,286,483.2	112.10					
Los Osos Valley WB 3	24.0	point280	280	5,760,743.0	2,286,483.2	112.10				Average	
		point279	279	5,760,723.5	2,286,597.5	109.20				Average	
		point278	278	5,760,676.5	2,286,732.5	108.30				Average	
		point277	277	5,760,626.0	2,286,871.2	108.10				Average	
		point276	276	5,760,582.5	2,286,991.5	110.20				Average	
		point275	275	5,760,540.5	2,287,095.0	109.40				Average	
		point274	274	5,760,487.5	2,287,212.0	111.80				Average	
		point273	273	5,760,435.5	2,287,324.0	112.70				Average	
		point272	272	5,760,379.5	2,287,430.5	112.10				Average	
		point271	271	5,760,320.0	2,287,538.2	113.40				Average	
		point270	270	5,760,255.0	2,287,649.0	115.30				Average	
		point269	269	5,760,181.5	2,287,766.0	114.90				Average	
		point268	268	5,760,110.5	2,287,876.8	115.40				Average	
		point267	267	5,760,050.5	2,287,970.8	116.90				Average	
		point266	266	5,759,980.5	2,288,071.8	117.60				Average	
		point265	265	5,759,916.5	2,288,173.0	117.20				Average	
		point264	264	5,759,849.0	2,288,271.8	117.20				Average	
		point263	263	5,759,785.5	2,288,371.8	117.20				Average	
		point262	262	5,759,728.5	2,288,456.0	117.20				Average	

		point261	261	5,759,671.0	2,288,544.0	117.20					
Los Osos Valley EB 1	12.0	point282	282	5,761,084.5	2,285,532.0	120.20				Average	
		point283	283	5,761,158.0	2,285,450.0	114.60				Average	
		point284	284	5,761,240.5	2,285,379.0	110.80				Average	
		point285	285	5,761,330.0	2,285,316.2	109.30				Average	
		point286	286	5,761,424.0	2,285,265.8	108.60				Average	
		point287	287	5,761,545.5	2,285,222.0	108.40				Average	
		point288	288	5,761,681.0	2,285,191.8	108.80				Average	
		point289	289	5,761,813.0	2,285,178.0	109.40				Average	
		point290	290	5,761,957.0	2,285,165.8	110.10				Average	
		point291	291	5,762,088.5	2,285,153.8	111.30				Average	
		point292	292	5,762,217.0	2,285,142.2	111.90				Average	
		point293	293	5,762,335.0	2,285,106.5	113.70				Average	
		point294	294	5,762,461.5	2,285,038.5	117.20					
Los Osos Valley EB 2	12.0	point295	295	5,760,719.0	2,286,475.5	112.10				Average	
		point296	296	5,760,769.0	2,286,346.0	119.80				Average	
		point297	297	5,760,807.0	2,286,234.5	127.40				Average	
		point298	298	5,760,855.5	2,286,094.8	129.60				Average	
		point299	299	5,760,893.0	2,285,986.2	129.80				Average	
		point300	300	5,760,931.5	2,285,876.8	127.30				Average	
		point301	301	5,760,969.0	2,285,765.5	126.10				Average	
		point302	302	5,761,017.5	2,285,645.5	120.30				Average	
		point303	303	5,761,084.5	2,285,532.0	120.20					
Los Osos Valley EB 3	24.0	point322	322	5,759,628.0	2,288,520.0	117.20				Average	
		point321	321	5,759,686.0	2,288,432.2	117.20				Average	
		point320	320	5,759,742.5	2,288,348.0	117.20				Average	
		point319	319	5,759,810.5	2,288,250.0	117.20				Average	
		point318	318	5,759,881.5	2,288,151.2	117.20				Average	
		point317	317	5,759,950.5	2,288,050.0	117.60				Average	
		point316	316	5,760,022.0	2,287,949.0	116.90				Average	
		point315	315	5,760,082.0	2,287,861.2	115.40				Average	
		point314	314	5,760,153.0	2,287,750.5	114.90				Average	
		point313	313	5,760,226.5	2,287,633.8	115.30				Average	
		point312	312	5,760,288.5	2,287,524.2	113.40				Average	
		point311	311	5,760,350.0	2,287,417.0	112.10				Average	
		point310	310	5,760,404.0	2,287,310.0	112.70				Average	
		point309	309	5,760,456.0	2,287,202.0	111.80				Average	
		point308	308	5,760,509.0	2,287,085.2	109.40				Average	
		point307	307	5,760,552.5	2,286,982.2	110.20				Average	

		point306	306	5,760,595.0	2,286,860.2	108.10				Average	
		point305	305	5,760,640.5	2,286,721.0	108.30				Average	
		point304	304	5,760,687.5	2,286,587.0	109.20				Average	
		point323	323	5,760,719.0	2,286,475.5	112.10					

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
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
Higuera NB	point147	147	244	40	12	40	8	35	0	0	0	0
	point118	118	244	40	12	40	8	35	0	0	0	0
	point117	117	244	40	12	40	8	35	0	0	0	0
	point116	116	244	40	12	40	8	35	0	0	0	0
	point115	115	244	40	12	40	8	35	0	0	0	0
	point114	114	244	40	12	40	8	35	0	0	0	0
	point113	113	244	40	12	40	8	35	0	0	0	0
	point112	112	244	40	12	40	8	35	0	0	0	0
	point111	111	244	40	12	40	8	35	0	0	0	0
	point110	110	244	40	12	40	8	35	0	0	0	0
	point109	109	244	40	12	40	8	35	0	0	0	0
	point108	108	244	40	12	40	8	35	0	0	0	0
	point107	107	244	40	12	40	8	35	0	0	0	0
	point106	106	244	40	12	40	8	35	0	0	0	0
	point105	105	244	40	12	40	8	35	0	0	0	0
	point104	104	244	40	12	40	8	35	0	0	0	0
	point103	103	244	40	12	40	8	35	0	0	0	0
	point102	102	244	40	12	40	8	35	0	0	0	0
	point101	101	244	40	12	40	8	35	0	0	0	0
	point100	100	244	40	12	40	8	35	0	0	0	0
	point99	99	244	40	12	40	8	35	0	0	0	0
	point98	98	244	40	12	40	8	35	0	0	0	0
	point97	97	244	40	12	40	8	35	0	0	0	0

	point96	96	244	40	12	40	8	35	0	0	0	0
	point95	95	244	40	12	40	8	35	0	0	0	0
	point94	94	244	40	12	40	8	35	0	0	0	0
	point93	93	244	40	12	40	8	35	0	0	0	0
	point92	92										
Higuera SB	point119	119	244	40	12	40	8	35	0	0	0	0
	point120	120	244	40	12	40	8	35	0	0	0	0
	point121	121	244	40	12	40	8	35	0	0	0	0
	point122	122	244	40	12	40	8	35	0	0	0	0
	point123	123	244	40	12	40	8	35	0	0	0	0
	point124	124	244	40	12	40	8	35	0	0	0	0
	point125	125	244	40	12	40	8	35	0	0	0	0
	point126	126	244	40	12	40	8	35	0	0	0	0
	point127	127	244	40	12	40	8	35	0	0	0	0
	point128	128	244	40	12	40	8	35	0	0	0	0
	point129	129	244	40	12	40	8	35	0	0	0	0
	point130	130	244	40	12	40	8	35	0	0	0	0
	point131	131	244	40	12	40	8	35	0	0	0	0
	point132	132	244	40	12	40	8	35	0	0	0	0
	point133	133	244	40	12	40	8	35	0	0	0	0
	point134	134	244	40	12	40	8	35	0	0	0	0
	point135	135	244	40	12	40	8	35	0	0	0	0
	point136	136	244	40	12	40	8	35	0	0	0	0
	point137	137	244	40	12	40	8	35	0	0	0	0
	point138	138	244	40	12	40	8	35	0	0	0	0
	point139	139	244	40	12	40	8	35	0	0	0	0
	point140	140	244	40	12	40	8	35	0	0	0	0
	point141	141	244	40	12	40	8	35	0	0	0	0
	point142	142	244	40	12	40	8	35	0	0	0	0
	point143	143	244	40	12	40	8	35	0	0	0	0
	point144	144	244	40	12	40	8	35	0	0	0	0
	point145	145	244	40	12	40	8	35	0	0	0	0
	point146	146										
US 101 NB 1	point238	238	1365	65	54	65	50	60	0	0	0	0
	point159	159	1365	65	54	65	50	60	0	0	0	0

	point158	158	1365	65	54	65	50	60	0	0	0	0
	point157	157	1365	65	54	65	50	60	0	0	0	0
	point156	156	1365	65	54	65	50	60	0	0	0	0
	point155	155	1365	65	54	65	50	60	0	0	0	0
	point154	154	1365	65	54	65	50	60	0	0	0	0
	point153	153	1365	65	54	65	50	60	0	0	0	0
	point152	152	1365	65	54	65	50	60	0	0	0	0
	point151	151	1365	65	54	65	50	60	0	0	0	0
	point150	150	1365	65	54	65	50	60	0	0	0	0
	point149	149	1365	65	54	65	50	60	0	0	0	0
	point148	148										
US 101 NB 2	point171	171	1365	65	54	65	50	60	0	0	0	0
	point170	170	1365	65	54	65	50	60	0	0	0	0
	point169	169	1365	65	54	65	50	60	0	0	0	0
	point168	168	1365	65	54	65	50	60	0	0	0	0
	point167	167	1365	65	54	65	50	60	0	0	0	0
	point166	166	1365	65	54	65	50	60	0	0	0	0
	point165	165	1365	65	54	65	50	60	0	0	0	0
	point164	164	1365	65	54	65	50	60	0	0	0	0
	point163	163	1365	65	54	65	50	60	0	0	0	0
	point162	162	1365	65	54	65	50	60	0	0	0	0
	point161	161	1365	65	54	65	50	60	0	0	0	0
	point160	160										
US 101 SB 1	point173	173	1748	65	64	65	72	60	0	0	0	0
	point174	174	1748	65	64	65	72	60	0	0	0	0
	point175	175	1748	65	64	65	72	60	0	0	0	0
	point176	176	1748	65	64	65	72	60	0	0	0	0
	point177	177	1748	65	64	65	72	60	0	0	0	0
	point178	178	1748	65	64	65	72	60	0	0	0	0
	point179	179	1748	65	64	65	72	60	0	0	0	0
	point180	180	1748	65	64	65	72	60	0	0	0	0
	point181	181	1748	65	64	65	72	60	0	0	0	0
	point182	182	1748	65	64	65	72	60	0	0	0	0
	point183	183	1748	65	64	65	72	60	0	0	0	0
	point184	184	1748	65	64	65	72	60	0	0	0	0

	point237	237										
US 101 SB 2	point186	186	1748	65	64	65	72	60	0	0	0	0
	point187	187	1748	65	64	65	72	60	0	0	0	0
	point188	188	1748	65	64	65	72	60	0	0	0	0
	point189	189	1748	65	64	65	72	60	0	0	0	0
	point190	190	1748	65	64	65	72	60	0	0	0	0
	point191	191	1748	65	64	65	72	60	0	0	0	0
	point192	192	1748	65	64	65	72	60	0	0	0	0
	point193	193	1748	65	64	65	72	60	0	0	0	0
	point194	194	1748	65	64	65	72	60	0	0	0	0
	point195	195	1748	65	64	65	72	60	0	0	0	0
	point196	196	1748	65	64	65	72	60	0	0	0	0
	point197	197										
US 101 NB Loop On Ramp	point211	211	308	45	12	45	11	40	0	0	0	0
	point210	210	308	45	12	45	11	40	0	0	0	0
	point209	209	308	45	12	45	11	40	0	0	0	0
	point208	208	308	45	12	45	11	40	0	0	0	0
	point207	207	308	45	12	45	11	40	0	0	0	0
	point206	206	308	45	12	45	11	40	0	0	0	0
	point205	205	308	45	12	45	11	40	0	0	0	0
	point204	204	308	45	12	45	11	40	0	0	0	0
	point203	203	308	45	12	45	11	40	0	0	0	0
	point202	202	308	45	12	45	11	40	0	0	0	0
	point201	201	308	45	12	45	11	40	0	0	0	0
	point200	200	308	45	12	45	11	40	0	0	0	0
	point199	199	308	45	12	45	11	40	0	0	0	0
	point198	198										
US 101 NB Off Ramp	point213	213	437	45	23	45	8	40	0	0	0	0
	point214	214	437	45	23	45	8	40	0	0	0	0
	point215	215	437	45	23	45	8	40	0	0	0	0
	point216	216	437	45	23	45	8	40	0	0	0	0
	point217	217	437	45	23	45	8	40	0	0	0	0
	point221	221	437	45	23	45	8	40	0	0	0	0
	point222	222	437	45	23	45	8	40	0	0	0	0
	point223	223	437	45	23	45	8	40	0	0	0	0

	point224	224	437	45	23	45	8	40	0	0	0	0
	point225	225	437	45	23	45	8	40	0	0	0	0
	point226	226	437	45	23	45	8	40	0	0	0	0
	point227	227	437	45	23	45	8	40	0	0	0	0
	point228	228	437	45	23	45	8	40	0	0	0	0
	point229	229	437	45	23	45	8	40	0	0	0	0
	point230	230										
US 101 SB Off Ramp	point232	232	425	45	17	45	16	40	0	0	0	0
	point233	233	425	45	17	45	16	40	0	0	0	0
	point234	234	425	45	17	45	16	40	0	0	0	0
	point235	235	425	45	17	45	16	40	0	0	0	0
	point236	236										
Los Osos Valley WB 1	point251	251	692	40	22	40	5	35	0	0	0	0
	point250	250	692	40	22	40	5	35	0	0	0	0
	point249	249	692	40	22	40	5	35	0	0	0	0
	point248	248	692	40	22	40	5	35	0	0	0	0
	point247	247	692	40	22	40	5	35	0	0	0	0
	point246	246	692	40	22	40	5	35	0	0	0	0
	point245	245	692	40	22	40	5	35	0	0	0	0
	point244	244	692	40	22	40	5	35	0	0	0	0
	point243	243	692	40	22	40	5	35	0	0	0	0
	point242	242	692	40	22	40	5	35	0	0	0	0
	point241	241	692	40	22	40	5	35	0	0	0	0
	point240	240	692	40	22	40	5	35	0	0	0	0
	point239	239										
Los Osos Valley WB 2	point260	260	692	40	22	40	5	35	0	0	0	0
	point259	259	692	40	22	40	5	35	0	0	0	0
	point258	258	692	40	22	40	5	35	0	0	0	0
	point257	257	692	40	22	40	5	35	0	0	0	0
	point256	256	692	40	22	40	5	35	0	0	0	0
	point255	255	692	40	22	40	5	35	0	0	0	0
	point254	254	692	40	22	40	5	35	0	0	0	0
	point253	253	692	40	22	40	5	35	0	0	0	0
	point252	252										
Los Osos Valley WB 3	point280	280	692	40	22	40	5	35	0	0	0	0

	point279	279	692	40	22	40	5	35	0	0	0	0
	point278	278	692	40	22	40	5	35	0	0	0	0
	point277	277	692	40	22	40	5	35	0	0	0	0
	point276	276	692	40	22	40	5	35	0	0	0	0
	point275	275	692	40	22	40	5	35	0	0	0	0
	point274	274	692	40	22	40	5	35	0	0	0	0
	point273	273	692	40	22	40	5	35	0	0	0	0
	point272	272	692	40	22	40	5	35	0	0	0	0
	point271	271	692	40	22	40	5	35	0	0	0	0
	point270	270	692	40	22	40	5	35	0	0	0	0
	point269	269	692	40	22	40	5	35	0	0	0	0
	point268	268	692	40	22	40	5	35	0	0	0	0
	point267	267	692	40	22	40	5	35	0	0	0	0
	point266	266	692	40	22	40	5	35	0	0	0	0
	point265	265	692	40	22	40	5	35	0	0	0	0
	point264	264	692	40	22	40	5	35	0	0	0	0
	point263	263	692	40	22	40	5	35	0	0	0	0
	point262	262	692	40	22	40	5	35	0	0	0	0
	point261	261										
Los Osos Valley EB 1	point282	282	740	40	28	40	19	35	0	0	0	0
	point283	283	740	40	28	40	19	35	0	0	0	0
	point284	284	740	40	28	40	19	35	0	0	0	0
	point285	285	740	40	28	40	19	35	0	0	0	0
	point286	286	740	40	28	40	19	35	0	0	0	0
	point287	287	740	40	28	40	19	35	0	0	0	0
	point288	288	740	40	28	40	19	35	0	0	0	0
	point289	289	740	40	28	40	19	35	0	0	0	0
	point290	290	740	40	28	40	19	35	0	0	0	0
	point291	291	740	40	28	40	19	35	0	0	0	0
	point292	292	740	40	28	40	19	35	0	0	0	0
	point293	293	740	40	28	40	19	35	0	0	0	0
	point294	294										
Los Osos Valley EB 2	point295	295	740	40	28	40	19	35	0	0	0	0
	point296	296	740	40	28	40	19	35	0	0	0	0
	point297	297	740	40	28	40	19	35	0	0	0	0

	point298	298	740	40	28	40	19	35	0	0	0	0
	point299	299	740	40	28	40	19	35	0	0	0	0
	point300	300	740	40	28	40	19	35	0	0	0	0
	point301	301	740	40	28	40	19	35	0	0	0	0
	point302	302	740	40	28	40	19	35	0	0	0	0
	point303	303										
Los Osos Valley EB 3	point322	322	740	40	28	40	19	35	0	0	0	0
	point321	321	740	40	28	40	19	35	0	0	0	0
	point320	320	740	40	28	40	19	35	0	0	0	0
	point319	319	740	40	28	40	19	35	0	0	0	0
	point318	318	740	40	28	40	19	35	0	0	0	0
	point317	317	740	40	28	40	19	35	0	0	0	0
	point316	316	740	40	28	40	19	35	0	0	0	0
	point315	315	740	40	28	40	19	35	0	0	0	0
	point314	314	740	40	28	40	19	35	0	0	0	0
	point313	313	740	40	28	40	19	35	0	0	0	0
	point312	312	740	40	28	40	19	35	0	0	0	0
	point311	311	740	40	28	40	19	35	0	0	0	0
	point310	310	740	40	28	40	19	35	0	0	0	0
	point309	309	740	40	28	40	19	35	0	0	0	0
	point308	308	740	40	28	40	19	35	0	0	0	0
	point307	307	740	40	28	40	19	35	0	0	0	0
	point306	306	740	40	28	40	19	35	0	0	0	0
	point305	305	740	40	28	40	19	35	0	0	0	0
	point304	304	740	40	28	40	19	35	0	0	0	0
	point323	323										

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
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	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
R-1	1	1	5,760,196.0	2,287,871.8	115.40	4.92	0.00	66	12.0	8.0	
R-2	2	1	5,760,409.5	2,287,532.8	113.40	4.92	0.00	66	12.0	8.0	
R-3	3	1	5,760,479.0	2,287,354.5	111.40	4.92	0.00	66	12.0	8.0	
R-4	4	1	5,760,585.5	2,287,158.8	109.60	4.92	0.00	66	12.0	8.0	
R-5	5	1	5,760,689.0	2,286,975.8	108.90	4.92	0.00	66	12.0	8.0	
R-6	6	1	5,760,773.5	2,286,683.8	108.10	4.92	0.00	66	12.0	8.0	
R-7	7	1	5,761,625.0	2,285,742.5	111.40	4.92	0.00	66	12.0	8.0	
R-8	8	1	5,761,715.5	2,285,903.0	111.40	4.92	0.00	66	12.0	8.0	
R-9	9	1	5,761,926.5	2,285,983.5	111.40	4.92	0.00	66	12.0	8.0	
R-10	10	1	5,761,821.5	2,286,087.0	111.40	4.92	0.00	66	12.0	8.0	
R-11	11	1	5,761,977.0	2,286,242.5	111.40	4.92	0.00	66	12.0	8.0	
R-12	12	1	5,762,050.0	2,286,315.0	111.40	4.92	0.00	66	12.0	8.0	
R-13	13	1	5,761,582.5	2,285,059.5	110.00	4.92	0.00	66	12.0	8.0	
R-14	14	1	5,761,627.5	2,285,058.5	110.00	4.92	0.00	66	12.0	8.0	
R-15	15	1	5,761,593.5	2,285,021.8	110.00	4.92	0.00	66	12.0	8.0	
R-16	16	1	5,762,173.5	2,285,044.5	120.00	4.92	0.00	66	12.0	8.0	
R-17	17	1	5,762,288.0	2,284,958.8	117.90	4.92	0.00	66	12.0	8.0	
R-18	18	1	5,761,669.0	2,285,092.0	108.60	4.92	0.00	66	12.0	8.0	
R-19	19	1	5,761,658.0	2,285,067.5	108.60	4.92	0.00	66	12.0	8.0	
R-20	20	1	5,761,854.0	2,285,084.8	110.00	4.92	0.00	66	12.0	8.0	
R-21	21	1	5,761,905.0	2,285,017.2	110.00	4.92	0.00	66	12.0	8.0	
R-22	22	1	5,762,099.5	2,284,985.8	120.00	4.92	0.00	66	12.0	8.0	

R-23	23	1	5,761,781.0	2,285,355.0	110.00	4.92	0.00	66	12.0	8.0	
R-24	24	1	5,761,912.0	2,285,355.8	110.00	4.92	0.00	66	12.0	8.0	
R-25	25	1	5,762,184.0	2,285,330.0	111.30	4.92	0.00	66	12.0	8.0	
R-26	26	1	5,762,230.0	2,285,316.2	111.50	4.92	0.00	66	12.0	8.0	
R-27	27	1	5,762,297.0	2,285,267.2	112.40	4.92	0.00	66	12.0	8.0	
R-28	28	1	5,762,431.0	2,285,255.0	114.70	4.92	0.00	66	12.0	8.0	
R-29	29	1	5,762,516.0	2,285,225.0	115.00	4.92	0.00	66	12.0	8.0	Y
R-30	30	1	5,761,852.5	2,285,383.2	110.00	4.92	0.00	66	12.0	8.0	
R-31	31	1	5,761,916.5	2,285,451.8	111.00	4.92	0.00	66	12.0	8.0	
R-32	32	1	5,762,042.5	2,285,375.5	110.00	4.92	0.00	66	12.0	8.0	
R-33	33	1	5,762,231.5	2,285,460.8	111.30	4.92	0.00	66	12.0	8.0	
R-34	34	1	5,762,284.0	2,285,370.8	111.50	4.92	0.00	66	12.0	8.0	
R-35	35	1	5,762,416.5	2,285,328.8	111.50	4.92	0.00	66	12.0	8.0	
R-36	36	1	5,762,499.5	2,285,314.8	114.70	4.92	0.00	66	12.0	8.0	
R-37	37	1	5,762,545.0	2,285,255.2	115.00	4.92	0.00	66	12.0	8.0	Y
R-38	39	1	5,760,381.0	2,285,923.8	110.00	4.92	0.00	66	12.0	8.0	Y

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: BARRIERS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
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				
Home 1	W	0.00	99.99	0.00				0.00	point5	5	5,761,502.0	2,285,073.5	110.00	15.00	0.00	0	0		
									point4	4	5,761,463.0	2,285,021.0	110.00	15.00	0.00	0	0		
									point3	3	5,761,487.0	2,284,998.0	110.00	15.00	0.00	0	0		
									point2	2	5,761,530.0	2,285,051.8	110.00	15.00	0.00	0	0		
									point1	1	5,761,502.0	2,285,073.5	110.00	15.00					
Home 2	W	0.00	99.99	0.00				0.00	point10	10	5,761,538.5	2,285,046.0	110.00	15.00	0.00	0	0		
									point9	9	5,761,503.5	2,285,001.0	110.00	15.00	0.00	0	0		
									point8	8	5,761,529.5	2,284,985.5	110.00	15.00	0.00	0	0		
									point7	7	5,761,561.0	2,285,028.0	110.00	15.00	0.00	0	0		
									point6	6	5,761,538.5	2,285,046.0	110.00	15.00					
Home 3	W	0.00	99.99	0.00				0.00	point15	15	5,761,570.5	2,285,017.8	110.00	15.00	0.00	0	0		
									point14	14	5,761,538.0	2,284,979.8	110.00	15.00	0.00	0	0		
									point13	13	5,761,569.0	2,284,958.5	110.00	15.00	0.00	0	0		
									point12	12	5,761,598.0	2,284,998.5	110.00	15.00	0.00	0	0		
									point11	11	5,761,570.5	2,285,017.8	110.00	15.00					
Home 4	W	0.00	99.99	0.00				0.00	point20	20	5,761,599.0	2,284,989.5	110.00	15.00	0.00	0	0		
									point19	19	5,761,568.5	2,284,949.5	110.00	15.00	0.00	0	0		
									point18	18	5,761,597.0	2,284,929.5	110.00	15.00	0.00	0	0		
									point17	17	5,761,626.5	2,284,970.8	110.00	15.00	0.00	0	0		
									point16	16	5,761,599.0	2,284,989.5	110.00	15.00					
Home 5	W	0.00	99.99	0.00				0.00	point25	25	5,761,666.5	2,285,130.5	110.00	15.00	0.00	0	0		
									point24	24	5,761,733.0	2,285,125.0	110.00	15.00	0.00	0	0		
									point23	23	5,761,732.5	2,285,086.0	110.00	15.00	0.00	0	0		
									point22	22	5,761,664.0	2,285,095.8	110.00	15.00	0.00	0	0		
									point21	21	5,761,666.5	2,285,130.5	110.00	15.00					
Home 6	W	0.00	99.99	0.00				0.00	point30	30	5,761,663.0	2,285,085.5	110.00	15.00	0.00	0	0		
									point29	29	5,761,729.5	2,285,079.2	110.00	15.00	0.00	0	0		
									point28	28	5,761,727.5	2,285,051.8	110.00	15.00	0.00	0	0		
									point27	27	5,761,661.0	2,285,056.8	110.00	15.00	0.00	0	0		
									point26	26	5,761,663.0	2,285,085.5	110.00	15.00					
Home 7	W	0.00	99.99	0.00				0.00	point35	35	5,761,797.5	2,285,116.5	110.00	15.00	0.00	0	0		
									point34	34	5,761,857.5	2,285,110.2	110.00	15.00	0.00	0	0		
									point33	33	5,761,856.0	2,285,089.0	110.00	15.00	0.00	0	0		
									point32	32	5,761,794.0	2,285,093.8	110.00	15.00	0.00	0	0		
									point31	31	5,761,797.5	2,285,116.5	110.00	15.00					

Home 8	W	0.00	99.99	0.00				0.00	point40	40	5,761,793.0	2,285,079.2	110.00	15.00	0.00	0	0		
									point39	39	5,761,860.0	2,285,073.8	110.00	15.00	0.00	0	0		
									point38	38	5,761,858.0	2,285,047.5	110.00	15.00	0.00	0	0		
									point37	37	5,761,790.0	2,285,052.0	110.00	15.00	0.00	0	0		
									point36	36	5,761,793.0	2,285,079.2	110.00	15.00					
Home 9	W	0.00	99.99	0.00				0.00	point45	45	5,761,886.0	2,285,087.0	110.00	15.00	0.00	0	0		
									point44	44	5,761,920.5	2,285,083.2	110.00	15.00	0.00	0	0		
									point43	43	5,761,917.5	2,285,035.0	110.00	15.00	0.00	0	0		
									point42	42	5,761,880.5	2,285,038.5	110.00	15.00	0.00	0	0		
									point41	41	5,761,886.0	2,285,087.0	110.00	15.00					
Home 10	W	0.00	99.99	0.00				0.00	point50	50	5,761,925.5	2,285,066.5	110.00	15.00	0.00	0	0		
									point49	49	5,761,922.5	2,285,025.0	110.00	15.00	0.00	0	0		
									point48	48	5,761,959.5	2,285,018.8	110.00	15.00	0.00	0	0		
									point47	47	5,761,963.5	2,285,060.2	110.00	15.00	0.00	0	0		
									point46	46	5,761,925.5	2,285,066.5	110.00	15.00					
Home 11	W	0.00	99.99	0.00				0.00	point57	57	5,762,115.5	2,285,030.2	120.00	15.00	0.00	0	0		
									point56	56	5,762,132.5	2,285,060.5	120.00	15.00	0.00	0	0		
									point55	55	5,762,177.5	2,285,038.0	120.00	15.00	0.00	0	0		
									point54	54	5,762,186.5	2,285,059.0	120.00	15.00	0.00	0	0		
									point53	53	5,762,208.5	2,285,048.8	120.00	15.00	0.00	0	0		
									point52	52	5,762,169.5	2,284,996.2	120.00	15.00	0.00	0	0		
									point51	51	5,762,115.5	2,285,030.2	120.00	15.00					
Home 12	W	0.00	99.99	0.00				0.00	point62	62	5,762,086.0	2,285,000.8	120.00	15.00	0.00	0	0		
									point61	61	5,762,134.0	2,284,974.0	120.00	15.00	0.00	0	0		
									point60	60	5,762,145.5	2,284,993.2	120.00	15.00	0.00	0	0		
									point59	59	5,762,099.5	2,285,020.2	120.00	15.00	0.00	0	0		
									point58	58	5,762,086.0	2,285,000.8	120.00	15.00					
Daycare	W	0.00	99.99	0.00				0.00	point67	67	5,762,285.5	2,285,065.8	117.90	15.00	0.00	0	0		
									point66	66	5,762,265.5	2,285,034.2	117.90	15.00	0.00	0	0		
									point65	65	5,762,375.5	2,284,966.0	117.90	15.00	0.00	0	0		
									point64	64	5,762,398.5	2,285,011.0	117.90	15.00	0.00	0	0		
									point63	63	5,762,285.5	2,285,065.8	117.90	15.00					
Home 14	W	0.00	99.99	0.00				0.00	point72	72	5,761,776.0	2,285,408.5	110.00	15.00	0.00	0	0		
									point71	71	5,761,823.5	2,285,372.2	110.00	15.00	0.00	0	0		
									point70	70	5,761,810.5	2,285,355.5	110.00	15.00	0.00	0	0		
									point69	69	5,761,763.5	2,285,391.5	110.00	15.00	0.00	0	0		
									point68	68	5,761,776.0	2,285,408.5	110.00	15.00					
Home 15	W	0.00	99.99	0.00				0.00	point77	77	5,761,852.0	2,285,345.8	110.00	15.00	0.00	0	0		
									point76	76	5,761,882.0	2,285,342.8	110.00	15.00	0.00	0	0		
									point75	75	5,761,878.5	2,285,281.8	110.00	15.00	0.00	0	0		
									point74	74	5,761,850.5	2,285,284.5	110.00	15.00	0.00	0	0		
									point73	73	5,761,852.0	2,285,345.8	110.00	15.00					
Home 16	W	0.00	99.99	0.00				0.00	point82	82	5,761,896.5	2,285,345.8	110.00	15.00	0.00	0	0		
									point81	81	5,761,891.0	2,285,285.0	110.00	15.00	0.00	0	0		
									point80	80	5,761,924.0	2,285,282.0	110.00	15.00	0.00	0	0		
									point79	79	5,761,929.0	2,285,342.5	110.00	15.00	0.00	0	0		
									point78	78	5,761,896.5	2,285,345.8	110.00	15.00					
Home 17	W	0.00	99.99	0.00				0.00	point87	87	5,761,931.0	2,285,295.2	110.00	15.00	0.00	0	0		
									point86	86	5,761,937.0	2,285,357.0	110.00	15.00	0.00	0	0		

									point85	85	5,761,955.0	2,285,355.5	110.00	15.00	0.00	0	0		
									point84	84	5,761,951.0	2,285,293.5	110.00	15.00	0.00	0	0		
									point83	83	5,761,931.0	2,285,295.2	110.00	15.00					
Home 18	W	0.00	99.99	0.00				0.00	point92	92	5,762,139.5	2,285,292.5	111.30	15.00	0.00	0	0		
									point91	91	5,762,159.0	2,285,283.8	111.30	15.00	0.00	0	0		
									point90	90	5,762,184.5	2,285,343.5	111.30	15.00	0.00	0	0		
									point89	89	5,762,164.0	2,285,353.5	111.30	15.00	0.00	0	0		
									point88	88	5,762,139.5	2,285,292.5	111.30	15.00					
Home 19	W	0.00	99.99	0.00				0.00	point97	97	5,762,167.0	2,285,279.5	111.30	15.00	0.00	0	0		
									point96	96	5,762,189.0	2,285,329.5	111.30	15.00	0.00	0	0		
									point95	95	5,762,218.0	2,285,317.2	111.30	15.00	0.00	0	0		
									point94	94	5,762,196.5	2,285,268.2	111.30	15.00	0.00	0	0		
									point93	93	5,762,167.0	2,285,279.5	111.30	15.00					
Home 20	W	0.00	99.99	0.00				0.00	point102	102	5,762,213.5	2,285,260.5	111.50	15.00	0.00	0	0		
									point101	101	5,762,236.5	2,285,320.8	111.50	15.00	0.00	0	0		
									point100	100	5,762,258.5	2,285,310.8	111.50	15.00	0.00	0	0		
									point99	99	5,762,233.0	2,285,256.5	111.50	15.00	0.00	0	0		
									point98	98	5,762,213.5	2,285,260.5	111.50	15.00					
Home 21	W	0.00	99.99	0.00				0.00	point107	107	5,762,240.0	2,285,256.0	111.50	15.00	0.00	0	0		
									point106	106	5,762,264.0	2,285,310.8	111.50	15.00	0.00	0	0		
									point105	105	5,762,284.5	2,285,301.5	111.50	15.00	0.00	0	0		
									point104	104	5,762,265.0	2,285,246.8	111.50	15.00	0.00	0	0		
									point103	103	5,762,240.0	2,285,256.0	111.50	15.00					
Home 22	W	0.00	99.99	0.00				0.00	point112	112	5,762,292.5	2,285,240.5	112.40	15.00	0.00	0	0		
									point111	111	5,762,315.5	2,285,290.0	112.40	15.00	0.00	0	0		
									point110	110	5,762,336.0	2,285,280.0	112.40	15.00	0.00	0	0		
									point109	109	5,762,317.5	2,285,233.5	112.40	15.00	0.00	0	0		
									point108	108	5,762,292.5	2,285,240.5	112.40	15.00					
Home 23	W	0.00	99.99	0.00				0.00	point117	117	5,762,342.5	2,285,221.8	113.00	15.00	0.00	0	0		
									point116	116	5,762,369.5	2,285,277.0	113.00	15.00	0.00	0	0		
									point115	115	5,762,400.5	2,285,266.0	113.00	15.00	0.00	0	0		
									point114	114	5,762,377.0	2,285,210.0	113.00	15.00	0.00	0	0		
									point113	113	5,762,342.5	2,285,221.8	113.00	15.00					
Home 24	W	0.00	99.99	0.00				0.00	point122	122	5,762,381.5	2,285,204.8	114.70	15.00	0.00	0	0		
									point121	121	5,762,403.0	2,285,255.8	114.70	15.00	0.00	0	0		
									point120	120	5,762,423.0	2,285,247.8	114.70	15.00	0.00	0	0		
									point119	119	5,762,400.5	2,285,197.8	114.70	15.00	0.00	0	0		
									point118	118	5,762,381.5	2,285,204.8	114.70	15.00					
Home 25	W	0.00	99.99	0.00				0.00	point127	127	5,762,426.0	2,285,185.8	115.00	15.00	0.00	0	0		
									point126	126	5,762,448.5	2,285,241.5	115.00	15.00	0.00	0	0		
									point125	125	5,762,476.0	2,285,231.0	115.00	15.00	0.00	0	0		
									point124	124	5,762,448.5	2,285,176.5	115.00	15.00	0.00	0	0		
									point123	123	5,762,426.0	2,285,185.8	115.00	15.00					
Home 26	W	0.00	99.99	0.00				0.00	point132	132	5,762,454.5	2,285,172.5	115.00	15.00	0.00	0	0		
									point131	131	5,762,480.5	2,285,231.5	115.00	15.00	0.00	0	0		
									point130	130	5,762,514.0	2,285,216.8	115.00	15.00	0.00	0	0		
									point129	129	5,762,492.5	2,285,160.5	115.00	15.00	0.00	0	0		
									point128	128	5,762,454.5	2,285,172.5	115.00	15.00					
Home 27	W	0.00	99.99	0.00				0.00	point137	137	5,761,915.0	2,285,445.5	110.00	15.00	0.00	0	0		

									point136	136	5,761,946.5	2,285,486.5	110.00	15.00	0.00	0	0		
									point135	135	5,761,965.0	2,285,471.5	110.00	15.00	0.00	0	0		
									point134	134	5,761,933.5	2,285,431.8	110.00	15.00	0.00	0	0		
									point133	133	5,761,915.0	2,285,445.5	110.00	15.00					
Home 28	W	0.00	99.99	0.00				0.00	point142	142	5,761,879.0	2,285,477.0	110.00	15.00	0.00	0	0		
									point141	141	5,761,903.0	2,285,509.0	110.00	15.00	0.00	0	0		
									point140	140	5,761,931.5	2,285,486.0	110.00	15.00	0.00	0	0		
									point139	139	5,761,904.5	2,285,454.8	110.00	15.00	0.00	0	0		
									point138	138	5,761,879.0	2,285,477.0	110.00	15.00					
Home 29	W	0.00	99.99	0.00				0.00	point147	147	5,761,980.0	2,285,401.5	110.00	15.00	0.00	0	0		
									point146	146	5,762,002.5	2,285,429.0	110.00	15.00	0.00	0	0		
									point145	145	5,762,039.5	2,285,401.2	110.00	15.00	0.00	0	0		
									point144	144	5,762,021.0	2,285,376.2	110.00	15.00	0.00	0	0		
									point143	143	5,761,980.0	2,285,401.5	110.00	15.00					
Pool House	W	0.00	99.99	0.00				0.00	point152	152	5,762,176.0	2,285,471.8	111.30	15.00	0.00	0	0		
									point151	151	5,762,211.0	2,285,472.0	111.30	15.00	0.00	0	0		
									point150	150	5,762,210.5	2,285,451.8	111.30	15.00	0.00	0	0		
									point149	149	5,762,172.5	2,285,455.0	111.30	15.00	0.00	0	0		
									point148	148	5,762,176.0	2,285,471.8	111.30	15.00					
Home 30	W	0.00	99.99	0.00				0.00	point157	157	5,762,277.0	2,285,379.8	111.50	15.00	0.00	0	0		
									point156	156	5,762,321.0	2,285,358.2	111.50	15.00	0.00	0	0		
									point155	155	5,762,330.5	2,285,381.0	111.50	15.00	0.00	0	0		
									point154	154	5,762,288.5	2,285,399.0	111.50	15.00	0.00	0	0		
									point153	153	5,762,277.0	2,285,379.8	111.50	15.00					
Home 31	W	0.00	99.99	0.00				0.00	point162	162	5,762,387.5	2,285,346.5	111.50	15.00	0.00	0	0		
									point161	161	5,762,407.0	2,285,386.2	111.50	15.00	0.00	0	0		
									point160	160	5,762,431.5	2,285,371.2	111.50	15.00	0.00	0	0		
									point159	159	5,762,411.5	2,285,333.2	111.50	15.00	0.00	0	0		
									point158	158	5,762,387.5	2,285,346.5	111.50	15.00					
Home 32	W	0.00	99.99	0.00				0.00	point167	167	5,762,427.0	2,285,331.8	113.00	15.00	0.00	0	0		
									point166	166	5,762,444.0	2,285,364.2	113.00	15.00	0.00	0	0		
									point165	165	5,762,471.5	2,285,349.5	113.00	15.00	0.00	0	0		
									point164	164	5,762,453.0	2,285,314.5	113.00	15.00	0.00	0	0		
									point163	163	5,762,427.0	2,285,331.8	113.00	15.00					
Home 33	W	0.00	99.99	0.00				0.00	point172	172	5,762,459.5	2,285,310.5	114.70	15.00	0.00	0	0		
									point171	171	5,762,481.5	2,285,351.8	114.70	15.00	0.00	0	0		
									point170	170	5,762,502.0	2,285,338.0	114.70	15.00	0.00	0	0		
									point169	169	5,762,483.5	2,285,296.5	114.70	15.00	0.00	0	0		
									point168	168	5,762,459.5	2,285,310.5	114.70	15.00					
Home 34	W	0.00	99.99	0.00				0.00	point177	177	5,762,490.5	2,285,280.2	115.00	15.00	0.00	0	0		
									point176	176	5,762,518.5	2,285,333.2	115.00	15.00	0.00	0	0		
									point175	175	5,762,543.5	2,285,318.0	115.00	15.00	0.00	0	0		
									point174	174	5,762,515.0	2,285,265.5	115.00	15.00	0.00	0	0		
									point173	173	5,762,490.5	2,285,280.2	115.00	15.00					
Home 35	W	0.00	99.99	0.00				0.00	point182	182	5,762,524.0	2,285,273.0	115.00	15.00	0.00	0	0		
									point181	181	5,762,547.0	2,285,310.5	115.00	15.00	0.00	0	0		
									point180	180	5,762,575.5	2,285,289.8	115.00	15.00	0.00	0	0		
									point179	179	5,762,553.5	2,285,256.5	115.00	15.00	0.00	0	0		
									point178	178	5,762,524.0	2,285,273.0	115.00	15.00					

Home 36	W	0.00	99.99	0.00				0.00	point187	187	5,761,566.5	2,285,125.8	110.00	15.00	0.00	0	0			
									point186	186	5,761,601.0	2,285,122.8	110.00	15.00	0.00	0	0			
									point185	185	5,761,597.5	2,285,073.5	110.00	15.00	0.00	0	0			
									point184	184	5,761,564.0	2,285,075.0	110.00	15.00	0.00	0	0			
									point183	183	5,761,566.5	2,285,125.8	110.00	15.00						
Home 37	W	0.00	99.99	0.00				0.00	point192	192	5,761,617.0	2,285,122.0	110.00	15.00	0.00	0	0			
									point191	191	5,761,650.5	2,285,119.2	110.00	15.00	0.00	0	0			
									point190	190	5,761,647.0	2,285,063.8	110.00	15.00	0.00	0	0			
									point189	189	5,761,610.5	2,285,066.5	110.00	15.00	0.00	0	0			
									point188	188	5,761,617.0	2,285,122.0	110.00	15.00						
Building	W	0.00	99.99	0.00				0.00	point197	197	5,762,309.5	2,284,866.5	120.00	15.00	0.00	0	0			
									point196	196	5,762,201.0	2,284,924.5	120.00	15.00	0.00	0	0			
									point195	195	5,762,183.0	2,284,899.5	120.00	15.00	0.00	0	0			
									point194	194	5,762,291.0	2,284,831.5	120.00	15.00	0.00	0	0			
									point193	193	5,762,309.5	2,284,866.5	120.00	15.00						
Fence 1	W	0.00	99.99	0.00				0.00	point201	201	5,762,553.5	2,285,255.0	115.00	6.00	0.00	0	0			
									point200	200	5,762,545.5	2,285,242.0	115.00	6.00	0.00	0	0			
									point199	199	5,762,536.5	2,285,247.0	115.00	6.00						
Fence 2	W	0.00	99.99	0.00				0.00	point207	207	5,762,499.5	2,285,230.8	115.00	6.00	0.00	0	0			
									point206	206	5,762,502.0	2,285,238.5	115.00	6.00	0.00	0	0			
									point205	205	5,762,529.5	2,285,224.8	115.00	6.00	0.00	0	0			
									point204	204	5,762,522.5	2,285,208.8	115.00	6.00	0.00	0	0			
									point203	203	5,762,513.5	2,285,211.5	115.00	6.00						
Pool Fence	W	0.00	99.99	0.00				0.00	point212	212	5,760,348.5	2,285,954.5	110.00	6.00	0.00	0	0			
									point211	211	5,760,366.0	2,285,994.0	110.00	6.00	0.00	0	0			
									point210	210	5,760,383.5	2,285,995.5	110.00	6.00	0.00	0	0			
									point209	209	5,760,434.0	2,285,959.5	110.00	6.00	0.00	0	0			
									point208	208	5,760,387.5	2,285,857.0	110.00	6.00						
Building 2	W	0.00	99.99	0.00				0.00	point217	217	5,760,288.5	2,285,967.8	110.00	15.00	0.00	0	0			
									point216	216	5,760,235.5	2,285,863.5	110.00	15.00	0.00	0	0			
									point215	215	5,760,290.5	2,285,837.0	110.00	15.00	0.00	0	0			
									point214	214	5,760,343.5	2,285,941.8	110.00	15.00	0.00	0	0			
									point213	213	5,760,288.5	2,285,967.8	110.00	15.00						
Building 3	W	0.00	99.99	0.00				0.00	point222	222	5,760,319.0	2,285,837.5	110.00	15.00	0.00	0	0			
									point221	221	5,760,292.5	2,285,785.5	110.00	15.00	0.00	0	0			
									point220	220	5,760,396.5	2,285,734.0	110.00	15.00	0.00	0	0			
									point219	219	5,760,423.0	2,285,786.2	110.00	15.00	0.00	0	0			
									point218	218	5,760,319.0	2,285,837.5	110.00	15.00						
Building 4	W	0.00	99.99	0.00				0.00	point227	227	5,760,508.5	2,285,838.2	110.00	15.00	0.00	0	0			
									point226	226	5,760,476.0	2,285,767.2	110.00	15.00	0.00	0	0			
									point225	225	5,760,500.0	2,285,753.0	110.00	15.00	0.00	0	0			
									point224	224	5,760,533.5	2,285,823.2	110.00	15.00	0.00	0	0			
									point223	223	5,760,508.5	2,285,838.2	110.00	15.00						

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: TERRAIN LINES
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Existing Conditions

Terrain Line Name	Points No.	Coordinates (ground) X ft	Y ft	Z ft
Los Oso Valley WB	40	5,762,477.0	2,285,082.2	117.20
	39	5,762,347.5	2,285,152.0	113.70
	38	5,762,225.0	2,285,186.0	111.90
	37	5,762,093.0	2,285,199.2	111.10
	36	5,761,961.5	2,285,212.2	110.10
	35	5,761,817.5	2,285,224.0	109.40
	34	5,761,685.0	2,285,238.0	108.80
	33	5,761,553.5	2,285,256.2	108.40
	32	5,761,436.5	2,285,289.8	108.60
	31	5,761,343.0	2,285,340.2	109.30
	30	5,761,255.5	2,285,404.0	110.80
	29	5,761,176.0	2,285,469.5	114.60
	28	5,761,108.0	2,285,552.5	120.20
	27	5,761,043.5	2,285,660.2	120.30
	26	5,760,995.5	2,285,775.8	126.10
	25	5,760,956.0	2,285,887.2	127.30
	24	5,760,917.5	2,285,997.0	129.80
	23	5,760,881.5	2,286,104.2	129.60
	22	5,760,835.5	2,286,242.2	127.40
	21	5,760,800.5	2,286,351.8	119.80
	20	5,760,754.5	2,286,488.8	112.10
	19	5,760,735.5	2,286,603.0	109.20
	18	5,760,700.0	2,286,744.0	108.30
	17	5,760,649.5	2,286,882.5	108.10

	16	5,760,601.5	2,287,001.8	110.20
	15	5,760,559.0	2,287,105.2	109.40
	14	5,760,506.0	2,287,222.2	111.80
	13	5,760,454.5	2,287,334.2	112.70
	12	5,760,398.0	2,287,440.5	112.10
	11	5,760,338.5	2,287,548.5	113.40
	10	5,760,273.5	2,287,659.2	115.30
	9	5,760,200.0	2,287,776.2	114.90
	8	5,760,129.0	2,287,887.0	115.40
	7	5,760,069.0	2,287,981.0	116.90
	6	5,760,000.5	2,288,084.8	117.60
	5	5,759,937.0	2,288,186.0	117.20
	4	5,759,869.5	2,288,284.5	117.20
	3	5,759,804.0	2,288,382.0	117.20
	2	5,759,747.5	2,288,466.2	117.20
	1	5,759,689.5	2,288,554.2	117.20
Los Oso Valley EB	80	5,762,455.0	2,285,023.5	117.20
	79	5,762,332.0	2,285,097.2	113.70
	78	5,762,216.5	2,285,132.0	111.90
	77	5,762,088.0	2,285,145.0	111.30
	76	5,761,956.5	2,285,155.5	110.10
	75	5,761,812.5	2,285,167.8	109.40
	74	5,761,679.5	2,285,178.8	108.80
	73	5,761,543.0	2,285,207.0	108.40
	72	5,761,422.5	2,285,260.0	108.60
	71	5,761,326.5	2,285,312.0	109.30
	70	5,761,236.5	2,285,373.0	110.80
	69	5,761,152.0	2,285,444.0	114.60
	68	5,761,078.0	2,285,523.0	120.20
	67	5,761,004.0	2,285,639.5	120.30
	66	5,760,959.5	2,285,762.5	126.10
	65	5,760,921.5	2,285,874.0	127.30
	64	5,760,883.0	2,285,983.5	129.80
	63	5,760,843.5	2,286,093.0	129.60
	62	5,760,795.5	2,286,231.8	127.40

	61	5,760,757.5	2,286,343.0	119.80
	60	5,760,704.5	2,286,471.8	112.10
	59	5,760,673.0	2,286,583.2	109.20
	58	5,760,626.0	2,286,717.0	108.30
	57	5,760,583.0	2,286,857.0	108.10
	56	5,760,541.0	2,286,979.0	110.20
	55	5,760,497.0	2,287,082.0	109.40
	54	5,760,441.0	2,287,194.0	111.80
	53	5,760,389.0	2,287,301.8	112.70
	52	5,760,335.0	2,287,409.0	112.10
	51	5,760,273.5	2,287,516.2	113.40
	50	5,760,209.0	2,287,621.2	115.30
	49	5,760,135.5	2,287,738.0	114.90
	48	5,760,064.5	2,287,848.8	115.40
	47	5,760,005.0	2,287,936.5	116.90
	46	5,759,933.0	2,288,037.5	117.60
	45	5,759,864.0	2,288,138.8	117.20
	44	5,759,793.0	2,288,237.5	117.20
	43	5,759,725.0	2,288,335.5	117.20
	42	5,759,668.5	2,288,419.8	117.20
	41	5,759,610.5	2,288,507.5	117.20
Higuera NB	110	5,761,764.5	2,283,719.0	118.90
	109	5,761,817.5	2,283,807.8	118.90
	108	5,761,870.0	2,283,897.8	118.90
	107	5,761,914.5	2,283,973.5	118.90
	106	5,761,960.5	2,284,054.8	118.90
	105	5,762,010.0	2,284,141.0	118.90
	104	5,762,065.0	2,284,233.0	118.90
	103	5,762,114.0	2,284,315.2	118.90
	102	5,762,165.5	2,284,405.0	118.90
	101	5,762,213.5	2,284,484.5	119.10
	100	5,762,268.5	2,284,576.5	119.40
	99	5,762,318.0	2,284,655.8	118.80
	98	5,762,374.0	2,284,747.8	118.30
	97	5,762,426.5	2,284,836.0	118.90

	96	5,762,471.5	2,284,915.5	117.90
	95	5,762,525.5	2,285,007.5	117.70
	94	5,762,569.0	2,285,087.8	117.80
	93	5,762,615.0	2,285,168.5	117.80
	92	5,762,662.5	2,285,250.8	117.50
	91	5,762,713.0	2,285,330.0	117.00
	90	5,762,773.0	2,285,423.5	117.70
	89	5,762,817.0	2,285,500.0	117.20
	88	5,762,862.5	2,285,588.5	117.30
	87	5,762,914.5	2,285,687.0	118.10
	86	5,762,976.0	2,285,802.2	117.70
	85	5,763,040.5	2,285,924.5	117.80
	84	5,763,095.5	2,286,030.2	117.80
	83	5,763,150.5	2,286,111.5	117.80
Higuera SB	139	5,761,733.5	2,283,737.5	118.90
	138	5,761,785.5	2,283,826.2	118.90
	137	5,761,839.5	2,283,918.2	118.90
	136	5,761,885.0	2,283,992.5	118.90
	135	5,761,931.0	2,284,072.8	118.90
	134	5,761,980.5	2,284,158.8	118.90
	133	5,762,035.0	2,284,251.8	118.90
	132	5,762,084.0	2,284,334.0	118.90
	131	5,762,135.5	2,284,424.0	118.90
	130	5,762,183.5	2,284,503.5	119.10
	129	5,762,235.0	2,284,595.0	119.40
	128	5,762,281.5	2,284,677.0	118.80
	127	5,762,333.0	2,284,772.0	118.30
	126	5,762,383.5	2,284,862.0	118.00
	125	5,762,427.5	2,284,942.0	117.90
	124	5,762,483.5	2,285,031.0	117.70
	123	5,762,527.0	2,285,111.0	117.80
	122	5,762,573.0	2,285,191.8	117.80
	121	5,762,624.0	2,285,276.2	117.50
	120	5,762,671.0	2,285,353.0	117.00
	119	5,762,726.5	2,285,451.0	117.70

	118	5,762,768.0	2,285,527.5	117.20
	117	5,762,813.5	2,285,616.2	117.30
	116	5,762,865.5	2,285,714.8	118.10
	115	5,762,927.0	2,285,829.8	117.70
	114	5,762,991.5	2,285,952.0	117.80
	113	5,763,046.5	2,286,058.0	117.80
	112	5,763,101.0	2,286,139.2	117.80
US 101 NB Off-Ramp	220	5,761,039.0	2,285,548.0	120.20
	219	5,760,990.0	2,285,500.5	121.60
	218	5,760,919.5	2,285,427.0	117.90
	217	5,760,854.5	2,285,357.2	114.30
	216	5,760,787.5	2,285,291.0	110.30
	215	5,760,725.0	2,285,222.2	108.50
	214	5,760,660.5	2,285,137.5	107.50
	213	5,760,605.5	2,285,041.5	106.40
	212	5,760,563.5	2,284,947.2	105.30
	211	5,760,533.0	2,284,846.5	104.00
	210	5,760,517.5	2,284,747.5	103.00
	209	5,760,505.5	2,284,641.2	102.50
	208	5,760,490.0	2,284,536.5	104.00
	207	5,760,480.5	2,284,450.2	105.00
	206	5,760,468.5	2,284,346.2	106.00
US 101 SB Off-Ramp	225	5,760,796.0	2,286,543.5	105.00
	224	5,760,904.5	2,286,587.2	107.00
	223	5,761,024.5	2,286,645.8	110.00
	222	5,761,120.0	2,286,707.2	111.00
	221	5,761,207.0	2,286,834.5	113.80
US 101 NB 1	238	5,760,423.5	2,283,770.0	115.00
	237	5,760,437.5	2,283,950.0	109.70
	236	5,760,446.5	2,284,089.2	108.50
	235	5,760,449.0	2,284,274.2	107.30
	234	5,760,457.0	2,284,457.5	105.00
	233	5,760,468.0	2,284,638.2	103.60
	232	5,760,479.5	2,284,804.5	102.00
	231	5,760,499.0	2,284,998.0	101.10

	230	5,760,535.5	2,285,170.0	101.40
	229	5,760,586.0	2,285,341.0	102.20
	228	5,760,654.5	2,285,515.0	105.00
	227	5,760,737.0	2,285,673.0	106.80
	226	5,760,821.5	2,285,835.0	105.00
US 101 NB 2	250	5,760,948.5	2,286,078.5	107.30
	249	5,761,054.5	2,286,276.2	109.20
	248	5,761,206.5	2,286,565.8	111.50
	247	5,761,343.0	2,286,827.0	115.00
	246	5,761,481.0	2,287,086.5	117.00
	245	5,761,612.0	2,287,339.5	119.00
	244	5,761,771.5	2,287,639.0	120.70
	243	5,761,936.5	2,287,950.0	123.70
	242	5,762,096.5	2,288,259.0	125.00
	241	5,762,241.5	2,288,531.0	125.00
	240	5,762,375.5	2,288,785.8	128.50
	239	5,762,516.5	2,289,056.0	130.00
US 101 SB 1	263	5,760,312.5	2,283,773.8	109.70
	262	5,760,332.0	2,283,954.5	109.60
	261	5,760,339.0	2,284,096.0	108.50
	260	5,760,344.5	2,284,281.5	106.70
	259	5,760,355.5	2,284,464.8	105.10
	258	5,760,364.0	2,284,648.8	103.60
	257	5,760,375.5	2,284,812.5	103.50
	256	5,760,393.5	2,285,012.0	103.60
	255	5,760,431.5	2,285,191.0	104.10
	254	5,760,486.5	2,285,377.0	105.30
	253	5,760,565.0	2,285,560.5	106.70
	252	5,760,646.0	2,285,721.5	106.80
	251	5,760,769.5	2,285,957.0	106.70
US 101 SB 2	275	5,760,886.5	2,286,177.8	108.40
	274	5,760,964.0	2,286,324.8	109.20
	273	5,761,116.0	2,286,614.2	111.50
	272	5,761,252.0	2,286,875.5	115.00
	271	5,761,390.0	2,287,135.0	117.00

	270	5,761,521.5	2,287,388.0	119.50
	269	5,761,681.0	2,287,687.5	120.70
	268	5,761,845.5	2,287,998.5	123.60
	267	5,762,005.5	2,288,307.5	125.00
	266	5,762,150.5	2,288,579.5	125.00
	265	5,762,284.5	2,288,834.2	128.50
	264	5,762,430.5	2,289,102.0	130.00

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

RESULTS: BARRIER DESCRIPTIONS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Existing Conditions
BARRIER DESIGN: INPUT HEIGHTS

Barriers

Name	Type	Heights along Barrier			Length	If Wall	If Berm			Cost
		Min	Avg	Max		Area	Volume	Top Width	Run:Rise	
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	$
Home 1	W	15.00	15.00	15.00	203	3044				0
Home 2	W	15.00	15.00	15.00	169	2535				0
Home 3	W	15.00	15.00	15.00	171	2558				0
Home 4	W	15.00	15.00	15.00	169	2537				0
Home 5	W	15.00	15.00	15.00	210	3146				0
Home 6	W	15.00	15.00	15.00	190	2848				0
Home 7	W	15.00	15.00	15.00	167	2502				0
Home 8	W	15.00	15.00	15.00	189	2837				0
Home 9	W	15.00	15.00	15.00	169	2535				0
Home 10	W	15.00	15.00	15.00	159	2390				0
Home 11	W	15.00	15.00	15.00	261	3920				0
Home 12	W	15.00	15.00	15.00	154	2316				0
Daycare	W	15.00	15.00	15.00	343	5143				0
Home 14	W	15.00	15.00	15.00	161	2419				0
Home 15	W	15.00	15.00	15.00	181	2710				0
Home 16	W	15.00	15.00	15.00	188	2813				0
Home 17	W	15.00	15.00	15.00	162	2435				0
Home 18	W	15.00	15.00	15.00	175	2623				0
Home 19	W	15.00	15.00	15.00	171	2568				0
Home 20	W	15.00	15.00	15.00	169	2528				0
Home 21	W	15.00	15.00	15.00	167	2506				0
Home 22	W	15.00	15.00	15.00	153	2301				0
Home 23	W	15.00	15.00	15.00	192	2873				0

Home 24	W	15.00	15.00	15.00	152	2279				0
Home 25	W	15.00	15.00	15.00	175	2624				0
Home 26	W	15.00	15.00	15.00	201	3017				0
Home 27	W	15.00	15.00	15.00	149	2239				0
Home 28	W	15.00	15.00	15.00	152	2276				0
Home 29	W	15.00	15.00	15.00	161	2416				0
Pool House	W	15.00	15.00	15.00	111	1658				0
Home 30	W	15.00	15.00	15.00	142	2126				0
Home 31	W	15.00	15.00	15.00	143	2150				0
Home 32	W	15.00	15.00	15.00	139	2080				0
Home 33	W	15.00	15.00	15.00	145	2170				0
Home 34	W	15.00	15.00	15.00	178	2663				0
Home 35	W	15.00	15.00	15.00	153	2294				0
Home 36	W	15.00	15.00	15.00	168	2525				0
Home 37	W	15.00	15.00	15.00	182	2726				0
Building	W	15.00	15.00	15.00	321	4816				0
Fence 1	W	6.00	6.00	6.00	26	153				0
Fence 2	W	6.00	6.00	6.00	66	395				0
Pool Fence	W	6.00	6.00	6.00	235	1412				0
Building 2	W	15.00	15.00	15.00	356	5343				0
Building 3	W	15.00	15.00	15.00	349	5234				0
Building 4	W	15.00	15.00	15.00	213	3195				0
									Total Cost:	0

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

RESULTS: BARRIER-SEGMENT DESCRIPTIONS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Existing Conditions
BARRIER DESIGN: INPUT HEIGHTS

Barriers		Segments										
Name	Type	Name	No.	Heights First Point	Average	Second Point	Length	If Wall Area	On Struc?	Important Reflections?	If Berm Volume	Cost
				ft	ft	ft	ft	sq ft			cu yd	$
Home 1	W	point5	5	15.00	15.00	15.00	65	981				0
		point4	4	15.00	15.00	15.00	33	499				0
		point3	3	15.00	15.00	15.00	69	1033				0
		point2	2	15.00	15.00	15.00	35	532				0
Home 2	W	point10	10	15.00	15.00	15.00	57	855				0
		point9	9	15.00	15.00	15.00	30	454				0
		point8	8	15.00	15.00	15.00	53	794				0
		point7	7	15.00	15.00	15.00	29	432				0
Home 3	W	point15	15	15.00	15.00	15.00	50	750				0
		point14	14	15.00	15.00	15.00	38	564				0
		point13	13	15.00	15.00	15.00	49	741				0
		point12	12	15.00	15.00	15.00	34	504				0
Home 4	W	point20	20	15.00	15.00	15.00	50	755				0
		point19	19	15.00	15.00	15.00	35	522				0
		point18	18	15.00	15.00	15.00	51	761				0
		point17	17	15.00	15.00	15.00	33	499				0
Home 5	W	point25	25	15.00	15.00	15.00	67	1001				0
		point24	24	15.00	15.00	15.00	39	585				0
		point23	23	15.00	15.00	15.00	69	1038				0
		point22	22	15.00	15.00	15.00	35	523				0
Home 6	W	point30	30	15.00	15.00	15.00	67	1002				0

		point29	29	15.00	15.00	15.00	28	414				0
		point28	28	15.00	15.00	15.00	67	1000				0
		point27	27	15.00	15.00	15.00	29	432				0
Home 7	W	point35	35	15.00	15.00	15.00	60	905				0
		point34	34	15.00	15.00	15.00	21	320				0
		point33	33	15.00	15.00	15.00	62	933				0
		point32	32	15.00	15.00	15.00	23	345				0
Home 8	W	point40	40	15.00	15.00	15.00	67	1008				0
		point39	39	15.00	15.00	15.00	26	395				0
		point38	38	15.00	15.00	15.00	68	1022				0
		point37	37	15.00	15.00	15.00	27	411				0
Home 9	W	point45	45	15.00	15.00	15.00	35	521				0
		point44	44	15.00	15.00	15.00	48	725				0
		point43	43	15.00	15.00	15.00	37	557				0
		point42	42	15.00	15.00	15.00	49	732				0
Home 10	W	point50	50	15.00	15.00	15.00	42	624				0
		point49	49	15.00	15.00	15.00	38	563				0
		point48	48	15.00	15.00	15.00	42	625				0
		point47	47	15.00	15.00	15.00	39	578				0
Home 11	W	point57	57	15.00	15.00	15.00	35	520				0
		point56	56	15.00	15.00	15.00	50	755				0
		point55	55	15.00	15.00	15.00	23	343				0
		point54	54	15.00	15.00	15.00	24	364				0
		point53	53	15.00	15.00	15.00	65	981				0
		point52	52	15.00	15.00	15.00	64	957				0
Home 12	W	point62	62	15.00	15.00	15.00	55	824				0
		point61	61	15.00	15.00	15.00	22	336				0
		point60	60	15.00	15.00	15.00	53	800				0
		point59	59	15.00	15.00	15.00	24	356				0
Daycare	W	point67	67	15.00	15.00	15.00	37	560				0
		point66	66	15.00	15.00	15.00	129	1942				0
		point65	65	15.00	15.00	15.00	51	758				0

		point64	64	15.00	15.00	15.00	126	1883				0
Home 14	W	point72	72	15.00	15.00	15.00	60	896				0
		point71	71	15.00	15.00	15.00	21	318				0
		point70	70	15.00	15.00	15.00	59	888				0
		point69	69	15.00	15.00	15.00	21	317				0
Home 15	W	point77	77	15.00	15.00	15.00	30	452				0
		point76	76	15.00	15.00	15.00	61	917				0
		point75	75	15.00	15.00	15.00	28	422				0
		point74	74	15.00	15.00	15.00	61	919				0
Home 16	W	point82	82	15.00	15.00	15.00	61	915				0
		point81	81	15.00	15.00	15.00	33	497				0
		point80	80	15.00	15.00	15.00	61	911				0
		point79	79	15.00	15.00	15.00	33	490				0
Home 17	W	point87	87	15.00	15.00	15.00	62	931				0
		point86	86	15.00	15.00	15.00	18	271				0
		point85	85	15.00	15.00	15.00	62	932				0
		point84	84	15.00	15.00	15.00	20	301				0
Home 18	W	point92	92	15.00	15.00	15.00	21	321				0
		point91	91	15.00	15.00	15.00	65	974				0
		point90	90	15.00	15.00	15.00	23	342				0
		point89	89	15.00	15.00	15.00	66	986				0
Home 19	W	point97	97	15.00	15.00	15.00	55	819				0
		point96	96	15.00	15.00	15.00	31	472				0
		point95	95	15.00	15.00	15.00	54	803				0
		point94	94	15.00	15.00	15.00	32	474				0
Home 20	W	point102	102	15.00	15.00	15.00	64	967				0
		point101	101	15.00	15.00	15.00	24	362				0
		point100	100	15.00	15.00	15.00	60	899				0
		point99	99	15.00	15.00	15.00	20	299				0
Home 21	W	point107	107	15.00	15.00	15.00	60	897				0
		point106	106	15.00	15.00	15.00	22	337				0

		point105	105	15.00	15.00	15.00	58	872				0
		point104	104	15.00	15.00	15.00	27	400				0
Home 22	W	point112	112	15.00	15.00	15.00	55	819				0
		point111	111	15.00	15.00	15.00	23	342				0
		point110	110	15.00	15.00	15.00	50	751				0
		point109	109	15.00	15.00	15.00	26	389				0
Home 23	W	point117	117	15.00	15.00	15.00	61	922				0
		point116	116	15.00	15.00	15.00	33	493				0
		point115	115	15.00	15.00	15.00	61	911				0
		point114	114	15.00	15.00	15.00	36	547				0
Home 24	W	point122	122	15.00	15.00	15.00	55	830				0
		point121	121	15.00	15.00	15.00	22	323				0
		point120	120	15.00	15.00	15.00	55	822				0
		point119	119	15.00	15.00	15.00	20	304				0
Home 25	W	point127	127	15.00	15.00	15.00	60	902				0
		point126	126	15.00	15.00	15.00	29	442				0
		point125	125	15.00	15.00	15.00	61	916				0
		point124	124	15.00	15.00	15.00	24	365				0
Home 26	W	point132	132	15.00	15.00	15.00	64	967				0
		point131	131	15.00	15.00	15.00	37	549				0
		point130	130	15.00	15.00	15.00	60	903				0
		point129	129	15.00	15.00	15.00	40	598				0
Home 27	W	point137	137	15.00	15.00	15.00	52	776				0
		point136	136	15.00	15.00	15.00	24	357				0
		point135	135	15.00	15.00	15.00	51	761				0
		point134	134	15.00	15.00	15.00	23	346				0
Home 28	W	point142	142	15.00	15.00	15.00	40	600				0
		point141	141	15.00	15.00	15.00	37	549				0
		point140	140	15.00	15.00	15.00	41	619				0
		point139	139	15.00	15.00	15.00	34	508				0
Home 29	W	point147	147	15.00	15.00	15.00	36	533				0

		point146	146	15.00	15.00	15.00	46	694				0
		point145	145	15.00	15.00	15.00	31	467				0
		point144	144	15.00	15.00	15.00	48	722				0
Pool House	W	point152	152	15.00	15.00	15.00	35	525				0
		point151	151	15.00	15.00	15.00	20	304				0
		point150	150	15.00	15.00	15.00	38	572				0
		point149	149	15.00	15.00	15.00	17	257				0
Home 30	W	point157	157	15.00	15.00	15.00	49	735				0
		point156	156	15.00	15.00	15.00	25	370				0
		point155	155	15.00	15.00	15.00	46	685				0
		point154	154	15.00	15.00	15.00	22	336				0
Home 31	W	point162	162	15.00	15.00	15.00	44	664				0
		point161	161	15.00	15.00	15.00	29	431				0
		point160	160	15.00	15.00	15.00	43	644				0
		point159	159	15.00	15.00	15.00	27	411				0
Home 32	W	point167	167	15.00	15.00	15.00	37	550				0
		point166	166	15.00	15.00	15.00	31	468				0
		point165	165	15.00	15.00	15.00	40	594				0
		point164	164	15.00	15.00	15.00	31	468				0
Home 33	W	point172	172	15.00	15.00	15.00	47	701				0
		point171	171	15.00	15.00	15.00	25	370				0
		point170	170	15.00	15.00	15.00	45	682				0
		point169	169	15.00	15.00	15.00	28	417				0
Home 34	W	point177	177	15.00	15.00	15.00	60	899				0
		point176	176	15.00	15.00	15.00	29	439				0
		point175	175	15.00	15.00	15.00	60	896				0
		point174	174	15.00	15.00	15.00	29	429				0
Home 35	W	point182	182	15.00	15.00	15.00	44	660				0
		point181	181	15.00	15.00	15.00	35	529				0
		point180	180	15.00	15.00	15.00	40	598				0
		point179	179	15.00	15.00	15.00	34	507				0

Home 36	W	point187	187	15.00	15.00	15.00	35	519				0
		point186	186	15.00	15.00	15.00	49	741				0
		point185	185	15.00	15.00	15.00	34	503				0
		point184	184	15.00	15.00	15.00	51	762				0
Home 37	W	point192	192	15.00	15.00	15.00	34	504				0
		point191	191	15.00	15.00	15.00	56	834				0
		point190	190	15.00	15.00	15.00	37	549				0
		point189	189	15.00	15.00	15.00	56	838				0
Building	W	point197	197	15.00	15.00	15.00	123	1845				0
		point196	196	15.00	15.00	15.00	31	462				0
		point195	195	15.00	15.00	15.00	128	1914				0
		point194	194	15.00	15.00	15.00	40	594				0
Fence 1	W	point201	201	6.00	6.00	6.00	15	92				0
		point200	200	6.00	6.00	6.00	10	62				0
Fence 2	W	point207	207	6.00	6.00	6.00	8	49				0
		point206	206	6.00	6.00	6.00	31	184				0
		point205	205	6.00	6.00	6.00	17	105				0
		point204	204	6.00	6.00	6.00	9	56				0
Pool Fence	W	point212	212	6.00	6.00	6.00	43	259				0
		point211	211	6.00	6.00	6.00	18	105				0
		point210	210	6.00	6.00	6.00	62	372				0
		point209	209	6.00	6.00	6.00	113	675				0
Building 2	W	point217	217	15.00	15.00	15.00	117	1754				0
		point216	216	15.00	15.00	15.00	61	916				0
		point215	215	15.00	15.00	15.00	117	1761				0
		point214	214	15.00	15.00	15.00	61	913				0
Building 3	W	point222	222	15.00	15.00	15.00	58	875				0
		point221	221	15.00	15.00	15.00	116	1741				0
		point220	220	15.00	15.00	15.00	59	879				0
		point219	219	15.00	15.00	15.00	116	1739				0
Building 4	W	point227	227	15.00	15.00	15.00	78	1171				0

		point226	226	15.00	15.00	15.00	28	419				0
		point225	225	15.00	15.00	15.00	78	1167				0
		point224	224	15.00	15.00	15.00	29	437				0

LSA Associates, Inc.													9-Oct-06			
Jason Lui													TNM 2.5			
													Calculated with TNM 2.5			
Results:	Sound Levels															
Project/Co	DEC0603															
Run:	Existing															
							Increase over existing			With Barrier		Noise Reduction				
					Calculated	Crit'n	Calculated	Crit'n Sub'l	Type Impa	Calculated	With Calibr	Calculated	Goal	Calculated minus Goal		
Name	No.	Calibration	#DUs	Existing Leq	dBA	dBA	dB	dB	dBA	dBA	dBA	dB	dB	dB		
R-1"	1	-2.8	1	0	68.2	66	68.2	10	Snd Lvl	68.2	0	8	0			
R-2"	2	-2.8	1	0	67.8	66	67.8	10	Snd Lvl	67.8	0	8	0			
R-3"	3	-2.8	1	0	69.5	66	69.5	10	Snd Lvl	69.5	0	8	0			
R-4"	4	1.8	1	0	64	66	64	10	----	64	0	8	0			
R-5"	5	1.8	1	0	62.6	66	62.6	10	----	62.6	0	8	0			
R-6"	6	1.8	1	0	64.2	66	64.2	10	----	64.2	0	8	0			
R-7"	7	-6.6	1	0	61.2	66	61.2	10	----	61.2	0	8	0			
R-8"	8	-6.6	1	0	60.7	66	60.7	10	----	60.7	0	8	0			
R-9"	9	-6.6	1	0	59.1	66	59.1	10	----	59.1	0	8	0			
R-10"	10	-6.6	1	0	60.4	66	60.4	10	----	60.4	0	8	0			
R-11"	11	-6.6	1	0	59.7	66	59.7	10	----	59.7	0	8	0			
R-12"	12	-6.6	1	0	59.4	66	59.4	10	----	59.4	0	8	0			
R-13"	13	-2.8	1	0	49.9	66	49.9	10	----	49.9	0	8	0			
R-14"	14	-2.8	1	0	47	66	47	10	----	47	0	8	0			
R-15"	15	-2.8	1	0	55.5	66	55.5	10	----	55.5	0	8	0			
R-16"	16	-1.6	1	0	60.8	66	60.8	10	----	60.8	0	8	0			
R-17"	17	-1.6	1	0	57.5	66	57.5	10	----	57.5	0	8	0			
R-18"	18	-2.8	1	0	45.8	66	45.8	10	----	45.8	0	8	0			
R-19"	19	-2.8	1	0	53	66	53	10	----	53	0	8	0			
R-20"	20	-2.8	1	0	59.4	66	59.4	10	----	59.4	0	8	0			
R-21"	21	-2.8	1	0	50	66	50	10	----	50	0	8	0			
R-22"	22	-1.6	1	0	52.8	66	52.8	10	----	52.8	0	8	0			
R-23"	23	-0.7	1	0	58.4	66	58.4	10	----	58.4	0	8	0			
R-24"	24	-0.7	1	0	49.4	66	49.4	10	----	49.4	0	8	0			
R-25"	25	-1.1	1	0	47.7	66	47.7	10	----	47.7	0	8	0			
R-26"	26	-1.1	1	0	51.4	66	51.4	10	----	51.4	0	8	0			
R-27"	27	-1.1	1	0	56.2	66	56.2	10	----	56.2	0	8	0			
R-28"	28	-0.3	1	0	52.7	66	52.7	10	----	52.7	0	8	0			
R-29"	30	-0.3	1	0	55	66	55	10	----	55	0	8	0			
R-30"	31	-0.7	1	0	54.2	66	54.2	10	----	54.2	0	8	0			
R-31"	32	-0.7	1	0	49.2	66	49.2	10	----	49.2	0	8	0			
R-32"	33	-0.7	1	0	55.1	66	55.1	10	----	55.1	0	8	0			
R-33"	34	-1.1	1	0	51.4	66	51.4	10	----	51.4	0	8	0			
R-31"	35	-1.1	1	0	48.4	66	48.4	10	----	48.4	0	8	0			
R-32"	36	-0.3	1	0	47.8	66	47.8	10	----	47.8	0	8	0			
R-33"	37	-0.3	1	0	45.7	66	45.7	10	----	45.7	0	8	0			
R-31"	38	-0.3	1	0	55.3	66	55.3	10	----	55.3	0	8	0			
R-32"	39	1.8	1	0	52.3	66	52.3	10	----	52.3	0	8	0			

APPENDIX C

TRAFFIC NOISE MODEL (TNM) 2.5 PRINTOUTS FOR FUTURE NO BUILD CONDITIONS

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Future No Build 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		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Higuera NB	24.0	point147	147	5,761,753.0	2,283,727.0	118.90				Average	
		point118	118	5,761,806.5	2,283,815.8	118.90				Average	
		point117	117	5,761,858.5	2,283,905.8	118.90				Average	
		point116	116	5,761,903.5	2,283,981.5	118.90				Average	
		point115	115	5,761,949.5	2,284,062.8	118.90				Average	
		point114	114	5,761,999.0	2,284,148.8	118.90				Average	
		point113	113	5,762,054.0	2,284,240.8	118.90				Average	
		point112	112	5,762,103.0	2,284,323.2	118.90				Average	
		point111	111	5,762,154.5	2,284,413.0	118.90				Average	
		point110	110	5,762,202.5	2,284,492.5	119.10				Average	
		point109	109	5,762,257.5	2,284,584.5	119.40				Average	
		point108	108	5,762,307.0	2,284,663.8	118.80				Average	
		point107	107	5,762,362.5	2,284,755.8	118.30				Average	
		point106	106	5,762,415.5	2,284,844.0	118.90				Average	
		point105	105	5,762,460.0	2,284,923.5	117.90				Average	
		point104	104	5,762,514.5	2,285,015.5	117.70				Average	
		point103	103	5,762,558.0	2,285,095.8	117.80				Average	
		point102	102	5,762,604.0	2,285,176.5	117.80				Average	
		point101	101	5,762,651.0	2,285,258.8	117.50				Average	
		point100	100	5,762,701.5	2,285,337.8	117.00				Average	
		point99	99	5,762,762.0	2,285,431.5	117.70				Average	
		point98	98	5,762,806.0	2,285,508.0	117.20				Average	
		point97	97	5,762,851.0	2,285,596.5	117.30				Average	
		point96	96	5,762,903.5	2,285,695.0	118.10				Average	
		point95	95	5,762,965.0	2,285,810.2	117.70				Average	

		point94	94	5,763,029.5	2,285,932.2	117.80				Average	
		point93	93	5,763,084.0	2,286,038.2	117.80				Average	
		point92	92	5,763,139.0	2,286,119.5	117.80					
Higuera SB	24.0	point119	119	5,763,111.5	2,286,133.5	117.80				Average	
		point120	120	5,763,057.0	2,286,052.2	117.80				Average	
		point121	121	5,763,002.0	2,285,946.2	117.80				Average	
		point122	122	5,762,937.5	2,285,824.2	117.70				Average	
		point123	123	5,762,876.0	2,285,709.0	118.10				Average	
		point124	124	5,762,824.0	2,285,610.5	117.30				Average	
		point125	125	5,762,778.5	2,285,521.8	117.20				Average	
		point126	126	5,762,736.5	2,285,445.5	117.70				Average	
		point127	127	5,762,681.0	2,285,347.5	117.00				Average	
		point128	128	5,762,634.5	2,285,270.5	117.50				Average	
		point129	129	5,762,583.5	2,285,186.0	117.80				Average	
		point130	130	5,762,537.5	2,285,105.5	117.80				Average	
		point131	131	5,762,494.0	2,285,025.2	117.70				Average	
		point132	132	5,762,438.0	2,284,936.5	117.90				Average	
		point133	133	5,762,394.0	2,284,856.2	118.00				Average	
		point134	134	5,762,343.5	2,284,766.5	118.30				Average	
		point135	135	5,762,291.5	2,284,671.2	118.80				Average	
		point136	136	5,762,245.5	2,284,589.5	119.40				Average	
		point137	137	5,762,194.0	2,284,498.0	119.10				Average	
		point138	138	5,762,146.0	2,284,418.5	118.90				Average	
		point139	139	5,762,094.5	2,284,328.5	118.90				Average	
		point140	140	5,762,045.5	2,284,246.2	118.90				Average	
		point141	141	5,761,991.0	2,284,153.2	118.90				Average	
		point142	142	5,761,941.5	2,284,067.0	118.90				Average	
		point143	143	5,761,895.0	2,283,987.0	118.90				Average	
		point144	144	5,761,850.0	2,283,912.8	118.90				Average	
		point145	145	5,761,795.5	2,283,820.8	118.90				Average	
		point146	146	5,761,744.0	2,283,732.0	118.90					
US 101 NB 1	24.0	point238	238	5,760,404.5	2,283,771.2	115.00				Average	
		point159	159	5,760,418.5	2,283,950.0	109.70				Average	
		point158	158	5,760,430.0	2,284,090.5	108.50				Average	
		point157	157	5,760,435.5	2,284,276.0	107.30				Average	
		point156	156	5,760,447.0	2,284,457.2	105.00				Average	
		point155	155	5,760,455.0	2,284,641.2	103.60				Average	
		point154	154	5,760,463.5	2,284,804.5	102.00				Average	
		point153	153	5,760,484.0	2,285,000.2	101.10				Average	

		point152	152	5,760,519.0	2,285,172.5	101.40				Average	
		point151	151	5,760,570.5	2,285,349.0	102.20				Average	
		point150	150	5,760,639.0	2,285,520.5	105.00				Average	
		point149	149	5,760,720.0	2,285,681.8	106.80				Average	
		point148	148	5,760,805.0	2,285,843.5	105.00					
US 101 NB 2	24.0	point171	171	5,760,932.0	2,286,087.2	107.30				Average	
		point170	170	5,761,038.0	2,286,285.0	109.20				Average	
		point169	169	5,761,190.0	2,286,574.5	111.50				Average	
		point168	168	5,761,326.5	2,286,835.5	115.00				Average	
		point167	167	5,761,464.5	2,287,095.2	117.00				Average	
		point166	166	5,761,595.5	2,287,348.2	119.00				Average	
		point165	165	5,761,755.0	2,287,647.8	120.70				Average	
		point164	164	5,761,919.5	2,287,958.8	123.70				Average	
		point163	163	5,762,079.5	2,288,267.8	125.00				Average	
		point162	162	5,762,225.0	2,288,539.8	125.00				Average	
		point161	161	5,762,358.5	2,288,794.5	128.50				Average	
		point160	160	5,762,500.0	2,289,064.8	130.00					
US 101 SB 1	24.0	point173	173	5,760,788.0	2,285,947.2	106.70				Average	
		point174	174	5,760,664.5	2,285,712.0	106.80				Average	
		point175	175	5,760,583.5	2,285,550.8	106.70				Average	
		point176	176	5,760,505.0	2,285,367.5	105.30				Average	
		point177	177	5,760,449.0	2,285,185.8	104.10				Average	
		point178	178	5,760,412.5	2,285,010.0	103.60				Average	
		point179	179	5,760,394.5	2,284,810.5	103.50				Average	
		point180	180	5,760,386.5	2,284,647.5	103.60				Average	
		point181	181	5,760,378.0	2,284,463.2	105.10				Average	
		point182	182	5,760,364.5	2,284,280.8	106.70				Average	
		point183	183	5,760,358.5	2,284,095.2	108.50				Average	
		point184	184	5,760,347.5	2,283,952.2	109.60				Average	
		point237	237	5,760,335.5	2,283,772.5	109.70					
US 101 SB 2	24.0	point186	186	5,762,449.5	2,289,092.5	130.00				Average	
		point187	187	5,762,303.0	2,288,824.8	128.50				Average	
		point188	188	5,762,169.5	2,288,570.0	125.00				Average	
		point189	189	5,762,024.0	2,288,297.8	125.00				Average	
		point190	190	5,761,864.0	2,287,989.0	123.60				Average	
		point191	191	5,761,699.5	2,287,678.0	120.70				Average	
		point192	192	5,761,540.0	2,287,378.5	119.50				Average	
		point193	193	5,761,409.0	2,287,125.2	117.00				Average	
		point194	194	5,761,271.0	2,286,865.8	115.00				Average	

		point195	195	5,761,134.5	2,286,604.5	111.50				Average	
		point196	196	5,760,982.5	2,286,315.2	109.20				Average	
		point197	197	5,760,905.5	2,286,168.0	108.40					
US 101 NB Loop On Ramp	12.0	point211	211	5,761,017.5	2,285,577.0	122.40				Average	
		point210	210	5,760,968.5	2,285,523.0	122.10				Average	
		point209	209	5,760,914.0	2,285,466.2	118.00				Average	
		point208	208	5,760,862.5	2,285,419.5	114.60				Average	
		point207	207	5,760,802.0	2,285,393.8	113.30				Average	
		point206	206	5,760,744.5	2,285,404.2	107.90				Average	
		point205	205	5,760,707.5	2,285,431.5	104.70				Average	
		point204	204	5,760,685.0	2,285,478.2	104.50				Average	
		point203	203	5,760,685.0	2,285,529.8	103.40				Average	
		point202	202	5,760,701.5	2,285,587.2	103.40				Average	
		point201	201	5,760,727.5	2,285,642.2	102.50				Average	
		point200	200	5,760,758.5	2,285,705.0	104.50				Average	
		point199	199	5,760,785.0	2,285,760.2	104.80				Average	
		point198	198	5,760,813.5	2,285,816.2	105.30					
US 101 NB Off Ramp	12.0	point213	213	5,760,460.0	2,284,353.0	106.00				Average	
		point214	214	5,760,472.0	2,284,457.0	105.00				Average	
		point215	215	5,760,481.5	2,284,543.2	104.00				Average	
		point216	216	5,760,496.5	2,284,648.0	102.50				Average	
		point217	217	5,760,508.5	2,284,754.2	103.00				Average	
		point221	221	5,760,524.0	2,284,853.2	104.00				Average	
		point222	222	5,760,555.0	2,284,954.0	105.30				Average	
		point223	223	5,760,596.5	2,285,048.5	106.40				Average	
		point224	224	5,760,651.5	2,285,144.5	107.50				Average	
		point225	225	5,760,716.5	2,285,229.0	108.50				Average	
		point226	226	5,760,779.0	2,285,297.8	110.30				Average	
		point227	227	5,760,846.0	2,285,364.2	114.30				Average	
		point228	228	5,760,910.5	2,285,433.8	117.90				Average	
		point229	229	5,760,975.5	2,285,513.5	121.60				Average	
		point230	230	5,761,027.0	2,285,565.0	120.20					
US 101 SB Off Ramp	12.0	point232	232	5,761,216.5	2,286,829.5	113.80				Average	
		point233	233	5,761,124.0	2,286,701.8	111.00				Average	
		point234	234	5,761,030.0	2,286,632.5	110.00				Average	
		point235	235	5,760,910.0	2,286,574.0	107.00				Average	
		point236	236	5,760,801.5	2,286,530.5	105.00					
Los Osos Valley WB 1	12.0	point251	251	5,762,472.0	2,285,071.2	117.20				Average	
		point250	250	5,762,344.5	2,285,142.2	113.70				Average	

		point249	249	5,762,223.5	2,285,174.5	111.90				Average	
		point248	248	5,762,092.0	2,285,186.8	111.10				Average	
		point247	247	5,761,960.5	2,285,198.8	110.10				Average	
		point246	246	5,761,816.5	2,285,211.0	109.40				Average	
		point245	245	5,761,684.5	2,285,224.8	108.80				Average	
		point244	244	5,761,549.5	2,285,241.5	108.40				Average	
		point243	243	5,761,433.0	2,285,282.5	108.60				Average	
		point242	242	5,761,339.0	2,285,333.2	109.30				Average	
		point241	241	5,761,250.0	2,285,395.8	110.80				Average	
		point240	240	5,761,169.0	2,285,462.0	114.60				Average	
		point239	239	5,761,095.5	2,285,544.0	120.20					
Los Osos Valley WB 2	12.0	point260	260	5,761,095.5	2,285,544.0	120.20				Average	
		point259	259	5,761,030.5	2,285,654.8	120.30				Average	
		point258	258	5,760,982.5	2,285,770.2	126.10				Average	
		point257	257	5,760,947.5	2,285,882.2	127.30				Average	
		point256	256	5,760,909.0	2,285,992.0	129.80				Average	
		point255	255	5,760,871.5	2,286,100.2	129.60				Average	
		point254	254	5,760,822.5	2,286,238.8	127.40				Average	
		point253	253	5,760,787.5	2,286,348.5	119.80				Average	
		point252	252	5,760,743.0	2,286,483.2	112.10					
Los Osos Valley WB 3	24.0	point280	280	5,760,743.0	2,286,483.2	112.10				Average	
		point279	279	5,760,723.5	2,286,597.5	109.20				Average	
		point278	278	5,760,676.5	2,286,732.5	108.30				Average	
		point277	277	5,760,626.0	2,286,871.2	108.10				Average	
		point276	276	5,760,582.5	2,286,991.5	110.20				Average	
		point275	275	5,760,540.5	2,287,095.0	109.40				Average	
		point274	274	5,760,487.5	2,287,212.0	111.80				Average	
		point273	273	5,760,435.5	2,287,324.0	112.70				Average	
		point272	272	5,760,379.5	2,287,430.5	112.10				Average	
		point271	271	5,760,320.0	2,287,538.2	113.40				Average	
		point270	270	5,760,255.0	2,287,649.0	115.30				Average	
		point269	269	5,760,181.5	2,287,766.0	114.90				Average	
		point268	268	5,760,110.5	2,287,876.8	115.40				Average	
		point267	267	5,760,050.5	2,287,970.8	116.90				Average	
		point266	266	5,759,980.5	2,288,071.8	117.60				Average	
		point265	265	5,759,916.5	2,288,173.0	117.20				Average	
		point264	264	5,759,849.0	2,288,271.8	117.20				Average	
		point263	263	5,759,785.5	2,288,371.8	117.20				Average	
		point262	262	5,759,728.5	2,288,456.0	117.20				Average	

		point261	261	5,759,671.0	2,288,544.0	117.20					
Los Osos Valley EB 1	12.0	point282	282	5,761,084.5	2,285,532.0	120.20				Average	
		point283	283	5,761,158.0	2,285,450.0	114.60				Average	
		point284	284	5,761,240.5	2,285,379.0	110.80				Average	
		point285	285	5,761,330.0	2,285,316.2	109.30				Average	
		point286	286	5,761,424.0	2,285,265.8	108.60				Average	
		point287	287	5,761,545.5	2,285,222.0	108.40				Average	
		point288	288	5,761,681.0	2,285,191.8	108.80				Average	
		point289	289	5,761,813.0	2,285,178.0	109.40				Average	
		point290	290	5,761,957.0	2,285,165.8	110.10				Average	
		point291	291	5,762,088.5	2,285,153.8	111.30				Average	
		point292	292	5,762,217.0	2,285,142.2	111.90				Average	
		point293	293	5,762,335.0	2,285,106.5	113.70				Average	
		point294	294	5,762,461.5	2,285,038.5	117.20					
Los Osos Valley EB 2	12.0	point295	295	5,760,719.0	2,286,475.5	112.10				Average	
		point296	296	5,760,769.0	2,286,346.0	119.80				Average	
		point297	297	5,760,807.0	2,286,234.5	127.40				Average	
		point298	298	5,760,855.5	2,286,094.8	129.60				Average	
		point299	299	5,760,893.0	2,285,986.2	129.80				Average	
		point300	300	5,760,931.5	2,285,876.8	127.30				Average	
		point301	301	5,760,969.0	2,285,765.5	126.10				Average	
		point302	302	5,761,017.5	2,285,645.5	120.30				Average	
		point303	303	5,761,084.5	2,285,532.0	120.20					
Los Osos Valley EB 3	24.0	point322	322	5,759,628.0	2,288,520.0	117.20				Average	
		point321	321	5,759,686.0	2,288,432.2	117.20				Average	
		point320	320	5,759,742.5	2,288,348.0	117.20				Average	
		point319	319	5,759,810.5	2,288,250.0	117.20				Average	
		point318	318	5,759,881.5	2,288,151.2	117.20				Average	
		point317	317	5,759,950.5	2,288,050.0	117.60				Average	
		point316	316	5,760,022.0	2,287,949.0	116.90				Average	
		point315	315	5,760,082.0	2,287,861.2	115.40				Average	
		point314	314	5,760,153.0	2,287,750.5	114.90				Average	
		point313	313	5,760,226.5	2,287,633.8	115.30				Average	
		point312	312	5,760,288.5	2,287,524.2	113.40				Average	
		point311	311	5,760,350.0	2,287,417.0	112.10				Average	
		point310	310	5,760,404.0	2,287,310.0	112.70				Average	
		point309	309	5,760,456.0	2,287,202.0	111.80				Average	
		point308	308	5,760,509.0	2,287,085.2	109.40				Average	
		point307	307	5,760,552.5	2,286,982.2	110.20				Average	

		point306	306	5,760,595.0	2,286,860.2	108.10				Average	
		point305	305	5,760,640.5	2,286,721.0	108.30				Average	
		point304	304	5,760,687.5	2,286,587.0	109.20				Average	
		point323	323	5,760,719.0	2,286,475.5	112.10					

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Future No Build 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
Higuera NB	point147	147	1909	40	94	40	63	35	0	0	0	0
	point118	118	1909	40	94	40	63	35	0	0	0	0
	point117	117	1909	40	94	40	63	35	0	0	0	0
	point116	116	1909	40	94	40	63	35	0	0	0	0
	point115	115	1909	40	94	40	63	35	0	0	0	0
	point114	114	1909	40	94	40	63	35	0	0	0	0
	point113	113	1909	40	94	40	63	35	0	0	0	0
	point112	112	1909	40	94	40	63	35	0	0	0	0
	point111	111	1909	40	94	40	63	35	0	0	0	0
	point110	110	1909	40	94	40	63	35	0	0	0	0
	point109	109	1909	40	94	40	63	35	0	0	0	0
	point108	108	1909	40	94	40	63	35	0	0	0	0
	point107	107	1909	40	94	40	63	35	0	0	0	0
	point106	106	1909	40	94	40	63	35	0	0	0	0
	point105	105	1909	40	94	40	63	35	0	0	0	0
	point104	104	1909	40	94	40	63	35	0	0	0	0
	point103	103	1909	40	94	40	63	35	0	0	0	0
	point102	102	1909	40	94	40	63	35	0	0	0	0
	point101	101	1909	40	94	40	63	35	0	0	0	0
	point100	100	1909	40	94	40	63	35	0	0	0	0
	point99	99	1909	40	94	40	63	35	0	0	0	0
	point98	98	1909	40	94	40	63	35	0	0	0	0
	point97	97	1909	40	94	40	63	35	0	0	0	0

	point96	96	1909	40	94	40	63	35	0	0	0	0
	point95	95	1909	40	94	40	63	35	0	0	0	0
	point94	94	1909	40	94	40	63	35	0	0	0	0
	point93	93	1909	40	94	40	63	35	0	0	0	0
	point92	92										
Higuera SB	point119	119	1909	40	94	40	63	35	0	0	0	0
	point120	120	1909	40	94	40	63	35	0	0	0	0
	point121	121	1909	40	94	40	63	35	0	0	0	0
	point122	122	1909	40	94	40	63	35	0	0	0	0
	point123	123	1909	40	94	40	63	35	0	0	0	0
	point124	124	1909	40	94	40	63	35	0	0	0	0
	point125	125	1909	40	94	40	63	35	0	0	0	0
	point126	126	1909	40	94	40	63	35	0	0	0	0
	point127	127	1909	40	94	40	63	35	0	0	0	0
	point128	128	1909	40	94	40	63	35	0	0	0	0
	point129	129	1909	40	94	40	63	35	0	0	0	0
	point130	130	1909	40	94	40	63	35	0	0	0	0
	point131	131	1909	40	94	40	63	35	0	0	0	0
	point132	132	1909	40	94	40	63	35	0	0	0	0
	point133	133	1909	40	94	40	63	35	0	0	0	0
	point134	134	1909	40	94	40	63	35	0	0	0	0
	point135	135	1909	40	94	40	63	35	0	0	0	0
	point136	136	1909	40	94	40	63	35	0	0	0	0
	point137	137	1909	40	94	40	63	35	0	0	0	0
	point138	138	1909	40	94	40	63	35	0	0	0	0
	point139	139	1909	40	94	40	63	35	0	0	0	0
	point140	140	1909	40	94	40	63	35	0	0	0	0
	point141	141	1909	40	94	40	63	35	0	0	0	0
	point142	142	1909	40	94	40	63	35	0	0	0	0
	point143	143	1909	40	94	40	63	35	0	0	0	0
	point144	144	1909	40	94	40	63	35	0	0	0	0
	point145	145	1909	40	94	40	63	35	0	0	0	0
	point146	146										
US 101 NB 1	point238	238	3624	65	141	65	135	60	0	0	0	0
	point159	159	3624	65	141	65	135	60	0	0	0	0

	point158	158	3624	65	141	65	135	60	0	0	0	0
	point157	157	3624	65	141	65	135	60	0	0	0	0
	point156	156	3624	65	141	65	135	60	0	0	0	0
	point155	155	3624	65	141	65	135	60	0	0	0	0
	point154	154	3624	65	141	65	135	60	0	0	0	0
	point153	153	3624	65	141	65	135	60	0	0	0	0
	point152	152	3624	65	141	65	135	60	0	0	0	0
	point151	151	3624	65	141	65	135	60	0	0	0	0
	point150	150	3624	65	141	65	135	60	0	0	0	0
	point149	149	3624	65	141	65	135	60	0	0	0	0
	point148	148										
US 101 NB 2	point171	171	3624	65	141	65	135	60	0	0	0	0
	point170	170	3624	65	141	65	135	60	0	0	0	0
	point169	169	3624	65	141	65	135	60	0	0	0	0
	point168	168	3624	65	141	65	135	60	0	0	0	0
	point167	167	3624	65	141	65	135	60	0	0	0	0
	point166	166	3624	65	141	65	135	60	0	0	0	0
	point165	165	3624	65	141	65	135	60	0	0	0	0
	point164	164	3624	65	141	65	135	60	0	0	0	0
	point163	163	3624	65	141	65	135	60	0	0	0	0
	point162	162	3624	65	141	65	135	60	0	0	0	0
	point161	161	3624	65	141	65	135	60	0	0	0	0
	point160	160										
US 101 SB 1	point173	173	3624	65	141	65	135	60	0	0	0	0
	point174	174	3624	65	141	65	135	60	0	0	0	0
	point175	175	3624	65	141	65	135	60	0	0	0	0
	point176	176	3624	65	141	65	135	60	0	0	0	0
	point177	177	3624	65	141	65	135	60	0	0	0	0
	point178	178	3624	65	141	65	135	60	0	0	0	0
	point179	179	3624	65	141	65	135	60	0	0	0	0
	point180	180	3624	65	141	65	135	60	0	0	0	0
	point181	181	3624	65	141	65	135	60	0	0	0	0
	point182	182	3624	65	141	65	135	60	0	0	0	0
	point183	183	3624	65	141	65	135	60	0	0	0	0
	point184	184	3624	65	141	65	135	60	0	0	0	0

	point237	237										
US 101 SB 2	point186	186	3624	65	141	65	135	60	0	0	0	0
	point187	187	3624	65	141	65	135	60	0	0	0	0
	point188	188	3624	65	141	65	135	60	0	0	0	0
	point189	189	3624	65	141	65	135	60	0	0	0	0
	point190	190	3624	65	141	65	135	60	0	0	0	0
	point191	191	3624	65	141	65	135	60	0	0	0	0
	point192	192	3624	65	141	65	135	60	0	0	0	0
	point193	193	3624	65	141	65	135	60	0	0	0	0
	point194	194	3624	65	141	65	135	60	0	0	0	0
	point195	195	3624	65	141	65	135	60	0	0	0	0
	point196	196	3624	65	141	65	135	60	0	0	0	0
	point197	197										
US 101 NB Loop On Ramp	point211	211	641	45	25	45	24	40	0	0	0	0
	point210	210	641	45	25	45	24	40	0	0	0	0
	point209	209	641	45	25	45	24	40	0	0	0	0
	point208	208	641	45	25	45	24	40	0	0	0	0
	point207	207	641	45	25	45	24	40	0	0	0	0
	point206	206	641	45	25	45	24	40	0	0	0	0
	point205	205	641	45	25	45	24	40	0	0	0	0
	point204	204	641	45	25	45	24	40	0	0	0	0
	point203	203	641	45	25	45	24	40	0	0	0	0
	point202	202	641	45	25	45	24	40	0	0	0	0
	point201	201	641	45	25	45	24	40	0	0	0	0
	point200	200	641	45	25	45	24	40	0	0	0	0
	point199	199	641	45	25	45	24	40	0	0	0	0
	point198	198										
US 101 NB Off Ramp	point213	213	525	45	20	45	20	40	0	0	0	0
	point214	214	525	45	20	45	20	40	0	0	0	0
	point215	215	525	45	20	45	20	40	0	0	0	0
	point216	216	525	45	20	45	20	40	0	0	0	0
	point217	217	525	45	20	45	20	40	0	0	0	0
	point221	221	525	45	20	45	20	40	0	0	0	0
	point222	222	525	45	20	45	20	40	0	0	0	0
	point223	223	525	45	20	45	20	40	0	0	0	0

	point224	224	525	45	20	45	20	40	0	0	0	0
	point225	225	525	45	20	45	20	40	0	0	0	0
	point226	226	525	45	20	45	20	40	0	0	0	0
	point227	227	525	45	20	45	20	40	0	0	0	0
	point228	228	525	45	20	45	20	40	0	0	0	0
	point229	229	525	45	20	45	20	40	0	0	0	0
	point230	230										
US 101 SB Off Ramp	point232	232	660	45	26	45	25	40	0	0	0	0
	point233	233	660	45	26	45	25	40	0	0	0	0
	point234	234	660	45	26	45	25	40	0	0	0	0
	point235	235	660	45	26	45	25	40	0	0	0	0
	point236	236										
Los Osos Valley WB 1	point251	251	1509	40	52	40	24	35	0	0	0	0
	point250	250	1509	40	52	40	24	35	0	0	0	0
	point249	249	1509	40	52	40	24	35	0	0	0	0
	point248	248	1509	40	52	40	24	35	0	0	0	0
	point247	247	1509	40	52	40	24	35	0	0	0	0
	point246	246	1509	40	52	40	24	35	0	0	0	0
	point245	245	1509	40	52	40	24	35	0	0	0	0
	point244	244	1509	40	52	40	24	35	0	0	0	0
	point243	243	1509	40	52	40	24	35	0	0	0	0
	point242	242	1509	40	52	40	24	35	0	0	0	0
	point241	241	1509	40	52	40	24	35	0	0	0	0
	point240	240	1509	40	52	40	24	35	0	0	0	0
	point239	239										
Los Osos Valley WB 2	point260	260	1635	40	57	40	26	35	0	0	0	0
	point259	259	1635	40	57	40	26	35	0	0	0	0
	point258	258	1635	40	57	40	26	35	0	0	0	0
	point257	257	1635	40	57	40	26	35	0	0	0	0
	point256	256	1635	40	57	40	26	35	0	0	0	0
	point255	255	1635	40	57	40	26	35	0	0	0	0
	point254	254	1635	40	57	40	26	35	0	0	0	0
	point253	253	1635	40	57	40	26	35	0	0	0	0
	point252	252										
Los Osos Valley WB 3	point280	280	1747	40	61	40	28	35	0	0	0	0

	point279	279	1747	40	61	40	28	35	0	0	0	0
	point278	278	1747	40	61	40	28	35	0	0	0	0
	point277	277	1747	40	61	40	28	35	0	0	0	0
	point276	276	1747	40	61	40	28	35	0	0	0	0
	point275	275	1747	40	61	40	28	35	0	0	0	0
	point274	274	1747	40	61	40	28	35	0	0	0	0
	point273	273	1747	40	61	40	28	35	0	0	0	0
	point272	272	1747	40	61	40	28	35	0	0	0	0
	point271	271	1747	40	61	40	28	35	0	0	0	0
	point270	270	1747	40	61	40	28	35	0	0	0	0
	point269	269	1747	40	61	40	28	35	0	0	0	0
	point268	268	1747	40	61	40	28	35	0	0	0	0
	point267	267	1747	40	61	40	28	35	0	0	0	0
	point266	266	1747	40	61	40	28	35	0	0	0	0
	point265	265	1747	40	61	40	28	35	0	0	0	0
	point264	264	1747	40	61	40	28	35	0	0	0	0
	point263	263	1747	40	61	40	28	35	0	0	0	0
	point262	262	1747	40	61	40	28	35	0	0	0	0
	point261	261										
Los Osos Valley EB 1	point282	282	1509	40	52	40	24	35	0	0	0	0
	point283	283	1509	40	52	40	24	35	0	0	0	0
	point284	284	1509	40	52	40	24	35	0	0	0	0
	point285	285	1509	40	52	40	24	35	0	0	0	0
	point286	286	1509	40	52	40	24	35	0	0	0	0
	point287	287	1509	40	52	40	24	35	0	0	0	0
	point288	288	1509	40	52	40	24	35	0	0	0	0
	point289	289	1509	40	52	40	24	35	0	0	0	0
	point290	290	1509	40	52	40	24	35	0	0	0	0
	point291	291	1509	40	52	40	24	35	0	0	0	0
	point292	292	1509	40	52	40	24	35	0	0	0	0
	point293	293	1509	40	52	40	24	35	0	0	0	0
	point294	294										
Los Osos Valley EB 2	point295	295	1635	40	57	40	26	35	0	0	0	0
	point296	296	1635	40	57	40	26	35	0	0	0	0
	point297	297	1635	40	57	40	26	35	0	0	0	0

	point298	298	1635	40	57	40	26	35	0	0	0	0
	point299	299	1635	40	57	40	26	35	0	0	0	0
	point300	300	1635	40	57	40	26	35	0	0	0	0
	point301	301	1635	40	57	40	26	35	0	0	0	0
	point302	302	1635	40	57	40	26	35	0	0	0	0
	point303	303										
Los Osos Valley EB 3	point322	322	1747	40	61	40	28	35	0	0	0	0
	point321	321	1747	40	61	40	28	35	0	0	0	0
	point320	320	1747	40	61	40	28	35	0	0	0	0
	point319	319	1747	40	61	40	28	35	0	0	0	0
	point318	318	1747	40	61	40	28	35	0	0	0	0
	point317	317	1747	40	61	40	28	35	0	0	0	0
	point316	316	1747	40	61	40	28	35	0	0	0	0
	point315	315	1747	40	61	40	28	35	0	0	0	0
	point314	314	1747	40	61	40	28	35	0	0	0	0
	point313	313	1747	40	61	40	28	35	0	0	0	0
	point312	312	1747	40	61	40	28	35	0	0	0	0
	point311	311	1747	40	61	40	28	35	0	0	0	0
	point310	310	1747	40	61	40	28	35	0	0	0	0
	point309	309	1747	40	61	40	28	35	0	0	0	0
	point308	308	1747	40	61	40	28	35	0	0	0	0
	point307	307	1747	40	61	40	28	35	0	0	0	0
	point306	306	1747	40	61	40	28	35	0	0	0	0
	point305	305	1747	40	61	40	28	35	0	0	0	0
	point304	304	1747	40	61	40	28	35	0	0	0	0
	point323	323										

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Future No Build Conditions

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
R-1	1	1	5,760,196.0	2,287,871.8	115.40	4.92	0.00	66	12.0	8.0	
R-2	2	1	5,760,409.5	2,287,532.8	113.40	4.92	0.00	66	12.0	8.0	
R-3	3	1	5,760,479.0	2,287,354.5	111.40	4.92	0.00	66	12.0	8.0	
R-4	4	1	5,760,585.5	2,287,158.8	109.60	4.92	0.00	66	12.0	8.0	
R-5	5	1	5,760,689.0	2,286,975.8	108.90	4.92	0.00	66	12.0	8.0	
R-6	6	1	5,760,773.5	2,286,683.8	108.10	4.92	0.00	66	12.0	8.0	
R-7	7	1	5,761,625.0	2,285,742.5	111.40	4.92	0.00	66	12.0	8.0	
R-8	8	1	5,761,715.5	2,285,903.0	111.40	4.92	0.00	66	12.0	8.0	
R-9	9	1	5,761,926.5	2,285,983.5	111.40	4.92	0.00	66	12.0	8.0	
R-10	10	1	5,761,821.5	2,286,087.0	111.40	4.92	0.00	66	12.0	8.0	
R-11	11	1	5,761,977.0	2,286,242.5	111.40	4.92	0.00	66	12.0	8.0	
R-12	12	1	5,762,050.0	2,286,315.0	111.40	4.92	0.00	66	12.0	8.0	
R-13	13	1	5,761,582.5	2,285,059.5	110.00	4.92	0.00	66	12.0	8.0	
R-14	14	1	5,761,627.5	2,285,058.5	110.00	4.92	0.00	66	12.0	8.0	
R-15	15	1	5,761,593.5	2,285,021.8	110.00	4.92	0.00	66	12.0	8.0	
R-16	16	1	5,762,173.5	2,285,044.5	120.00	4.92	0.00	66	12.0	8.0	
R-17	17	1	5,762,288.0	2,284,958.8	117.90	4.92	0.00	66	12.0	8.0	
R-18	18	1	5,761,669.0	2,285,092.0	108.60	4.92	0.00	66	12.0	8.0	
R-19	19	1	5,761,658.0	2,285,067.5	108.60	4.92	0.00	66	12.0	8.0	
R-20	20	1	5,761,854.0	2,285,084.8	110.00	4.92	0.00	66	12.0	8.0	
R-21	21	1	5,761,905.0	2,285,017.2	110.00	4.92	0.00	66	12.0	8.0	
R-22	22	1	5,762,099.5	2,284,985.8	120.00	4.92	0.00	66	12.0	8.0	

R-23	23	1	5,761,781.0	2,285,355.0	110.00	4.92	0.00	66	12.0	8.0	
R-24	24	1	5,761,912.0	2,285,355.8	110.00	4.92	0.00	66	12.0	8.0	
R-25	25	1	5,762,184.0	2,285,330.0	111.30	4.92	0.00	66	12.0	8.0	
R-26	26	1	5,762,230.0	2,285,316.2	111.50	4.92	0.00	66	12.0	8.0	
R-27	27	1	5,762,297.0	2,285,267.2	112.40	4.92	0.00	66	12.0	8.0	
R-28	28	1	5,762,431.0	2,285,255.0	114.70	4.92	0.00	66	12.0	8.0	
R-29	29	1	5,762,516.0	2,285,225.0	115.00	4.92	0.00	66	12.0	8.0	Y
R-30	30	1	5,761,852.5	2,285,383.2	110.00	4.92	0.00	66	12.0	8.0	
R-31	31	1	5,761,916.5	2,285,451.8	111.00	4.92	0.00	66	12.0	8.0	
R-32	32	1	5,762,042.5	2,285,375.5	110.00	4.92	0.00	66	12.0	8.0	
R-33	33	1	5,762,231.5	2,285,460.8	111.30	4.92	0.00	66	12.0	8.0	
R-34	34	1	5,762,284.0	2,285,370.8	111.50	4.92	0.00	66	12.0	8.0	
R-35	35	1	5,762,416.5	2,285,328.8	111.50	4.92	0.00	66	12.0	8.0	
R-36	36	1	5,762,499.5	2,285,314.8	114.70	4.92	0.00	66	12.0	8.0	
R-37	37	1	5,762,545.0	2,285,255.2	115.00	4.92	0.00	66	12.0	8.0	Y
R-38	39	1	5,760,381.0	2,285,923.8	110.00	4.92	0.00	66	12.0	8.0	Y

LSA Associates, Inc.
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2 September 2006
TNM 2.5

INPUT: BARRIERS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Future No Build 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				
Home 1	W	0.00	99.99	0.00				0.00	point5	5	5,761,502.0	2,285,073.5	110.00	15.00	0.00	0	0		
									point4	4	5,761,463.0	2,285,021.0	110.00	15.00	0.00	0	0		
									point3	3	5,761,487.0	2,284,998.0	110.00	15.00	0.00	0	0		
									point2	2	5,761,530.0	2,285,051.8	110.00	15.00	0.00	0	0		
									point1	1	5,761,502.0	2,285,073.5	110.00	15.00					
Home 2	W	0.00	99.99	0.00				0.00	point10	10	5,761,538.5	2,285,046.0	110.00	15.00	0.00	0	0		
									point9	9	5,761,503.5	2,285,001.0	110.00	15.00	0.00	0	0		
									point8	8	5,761,529.5	2,284,985.5	110.00	15.00	0.00	0	0		
									point7	7	5,761,561.0	2,285,028.0	110.00	15.00	0.00	0	0		
									point6	6	5,761,538.5	2,285,046.0	110.00	15.00					
Home 3	W	0.00	99.99	0.00				0.00	point15	15	5,761,570.5	2,285,017.8	110.00	15.00	0.00	0	0		
									point14	14	5,761,538.0	2,284,979.8	110.00	15.00	0.00	0	0		
									point13	13	5,761,569.0	2,284,958.5	110.00	15.00	0.00	0	0		
									point12	12	5,761,598.0	2,284,998.5	110.00	15.00	0.00	0	0		
									point11	11	5,761,570.5	2,285,017.8	110.00	15.00					
Home 4	W	0.00	99.99	0.00				0.00	point20	20	5,761,599.0	2,284,989.5	110.00	15.00	0.00	0	0		
									point19	19	5,761,568.5	2,284,949.5	110.00	15.00	0.00	0	0		
									point18	18	5,761,597.0	2,284,929.5	110.00	15.00	0.00	0	0		
									point17	17	5,761,626.5	2,284,970.8	110.00	15.00	0.00	0	0		
									point16	16	5,761,599.0	2,284,989.5	110.00	15.00					
Home 5	W	0.00	99.99	0.00				0.00	point25	25	5,761,666.5	2,285,130.5	110.00	15.00	0.00	0	0		
									point24	24	5,761,733.0	2,285,125.0	110.00	15.00	0.00	0	0		
									point23	23	5,761,732.5	2,285,086.0	110.00	15.00	0.00	0	0		
									point22	22	5,761,664.0	2,285,095.8	110.00	15.00	0.00	0	0		
									point21	21	5,761,666.5	2,285,130.5	110.00	15.00					
Home 6	W	0.00	99.99	0.00				0.00	point30	30	5,761,663.0	2,285,085.5	110.00	15.00	0.00	0	0		
									point29	29	5,761,729.5	2,285,079.2	110.00	15.00	0.00	0	0		
									point28	28	5,761,727.5	2,285,051.8	110.00	15.00	0.00	0	0		
									point27	27	5,761,661.0	2,285,056.8	110.00	15.00	0.00	0	0		
									point26	26	5,761,663.0	2,285,085.5	110.00	15.00					
Home 7	W	0.00	99.99	0.00				0.00	point35	35	5,761,797.5	2,285,116.5	110.00	15.00	0.00	0	0		
									point34	34	5,761,857.5	2,285,110.2	110.00	15.00	0.00	0	0		
									point33	33	5,761,856.0	2,285,089.0	110.00	15.00	0.00	0	0		
									point32	32	5,761,794.0	2,285,093.8	110.00	15.00	0.00	0	0		
									point31	31	5,761,797.5	2,285,116.5	110.00	15.00					

Home 8	W	0.00	99.99	0.00				0.00	point40	40	5,761,793.0	2,285,079.2	110.00	15.00	0.00	0	0		
									point39	39	5,761,860.0	2,285,073.8	110.00	15.00	0.00	0	0		
									point38	38	5,761,858.0	2,285,047.5	110.00	15.00	0.00	0	0		
									point37	37	5,761,790.0	2,285,052.0	110.00	15.00	0.00	0	0		
									point36	36	5,761,793.0	2,285,079.2	110.00	15.00					
Home 9	W	0.00	99.99	0.00				0.00	point45	45	5,761,886.0	2,285,087.0	110.00	15.00	0.00	0	0		
									point44	44	5,761,920.5	2,285,083.2	110.00	15.00	0.00	0	0		
									point43	43	5,761,917.5	2,285,035.0	110.00	15.00	0.00	0	0		
									point42	42	5,761,880.5	2,285,038.5	110.00	15.00	0.00	0	0		
									point41	41	5,761,886.0	2,285,087.0	110.00	15.00					
Home 10	W	0.00	99.99	0.00				0.00	point50	50	5,761,925.5	2,285,066.5	110.00	15.00	0.00	0	0		
									point49	49	5,761,922.5	2,285,025.0	110.00	15.00	0.00	0	0		
									point48	48	5,761,959.5	2,285,018.8	110.00	15.00	0.00	0	0		
									point47	47	5,761,963.5	2,285,060.2	110.00	15.00	0.00	0	0		
									point46	46	5,761,925.5	2,285,066.5	110.00	15.00					
Home 11	W	0.00	99.99	0.00				0.00	point57	57	5,762,115.5	2,285,030.2	120.00	15.00	0.00	0	0		
									point56	56	5,762,132.5	2,285,060.5	120.00	15.00	0.00	0	0		
									point55	55	5,762,177.5	2,285,038.0	120.00	15.00	0.00	0	0		
									point54	54	5,762,186.5	2,285,059.0	120.00	15.00	0.00	0	0		
									point53	53	5,762,208.5	2,285,048.8	120.00	15.00	0.00	0	0		
									point52	52	5,762,169.5	2,284,996.2	120.00	15.00	0.00	0	0		
									point51	51	5,762,115.5	2,285,030.2	120.00	15.00					
Home 12	W	0.00	99.99	0.00				0.00	point62	62	5,762,086.0	2,285,000.8	120.00	15.00	0.00	0	0		
									point61	61	5,762,134.0	2,284,974.0	120.00	15.00	0.00	0	0		
									point60	60	5,762,145.5	2,284,993.2	120.00	15.00	0.00	0	0		
									point59	59	5,762,099.5	2,285,020.2	120.00	15.00	0.00	0	0		
									point58	58	5,762,086.0	2,285,000.8	120.00	15.00					
Daycare	W	0.00	99.99	0.00				0.00	point67	67	5,762,285.5	2,285,065.8	117.90	15.00	0.00	0	0		
									point66	66	5,762,265.5	2,285,034.2	117.90	15.00	0.00	0	0		
									point65	65	5,762,375.5	2,284,966.0	117.90	15.00	0.00	0	0		
									point64	64	5,762,398.5	2,285,011.0	117.90	15.00	0.00	0	0		
									point63	63	5,762,285.5	2,285,065.8	117.90	15.00					
Home 14	W	0.00	99.99	0.00				0.00	point72	72	5,761,776.0	2,285,408.5	110.00	15.00	0.00	0	0		
									point71	71	5,761,823.5	2,285,372.2	110.00	15.00	0.00	0	0		
									point70	70	5,761,810.5	2,285,355.5	110.00	15.00	0.00	0	0		
									point69	69	5,761,763.5	2,285,391.5	110.00	15.00	0.00	0	0		
									point68	68	5,761,776.0	2,285,408.5	110.00	15.00					
Home 15	W	0.00	99.99	0.00				0.00	point77	77	5,761,852.0	2,285,345.8	110.00	15.00	0.00	0	0		
									point76	76	5,761,882.0	2,285,342.8	110.00	15.00	0.00	0	0		
									point75	75	5,761,878.5	2,285,281.8	110.00	15.00	0.00	0	0		
									point74	74	5,761,850.5	2,285,284.5	110.00	15.00	0.00	0	0		
									point73	73	5,761,852.0	2,285,345.8	110.00	15.00					
Home 16	W	0.00	99.99	0.00				0.00	point82	82	5,761,896.5	2,285,345.8	110.00	15.00	0.00	0	0		
									point81	81	5,761,891.0	2,285,285.0	110.00	15.00	0.00	0	0		
									point80	80	5,761,924.0	2,285,282.0	110.00	15.00	0.00	0	0		
									point79	79	5,761,929.0	2,285,342.5	110.00	15.00	0.00	0	0		
									point78	78	5,761,896.5	2,285,345.8	110.00	15.00					
Home 17	W	0.00	99.99	0.00				0.00	point87	87	5,761,931.0	2,285,295.2	110.00	15.00	0.00	0	0		
									point86	86	5,761,937.0	2,285,357.0	110.00	15.00	0.00	0	0		

									point85	85	5,761,955.0	2,285,355.5	110.00	15.00	0.00	0	0		
									point84	84	5,761,951.0	2,285,293.5	110.00	15.00	0.00	0	0		
									point83	83	5,761,931.0	2,285,295.2	110.00	15.00					
Home 19	W	0.00	99.99	0.00				0.00	point92	92	5,762,167.0	2,285,279.5	111.30	15.00	0.00	0	0		
									point91	91	5,762,189.0	2,285,329.5	111.30	15.00	0.00	0	0		
									point90	90	5,762,218.0	2,285,317.2	111.30	15.00	0.00	0	0		
									point89	89	5,762,196.5	2,285,268.2	111.30	15.00	0.00	0	0		
									point88	88	5,762,167.0	2,285,279.5	111.30	15.00					
Home 20	W	0.00	99.99	0.00				0.00	point97	97	5,762,213.5	2,285,260.5	111.50	15.00	0.00	0	0		
									point96	96	5,762,236.5	2,285,320.8	111.50	15.00	0.00	0	0		
									point95	95	5,762,258.5	2,285,310.8	111.50	15.00	0.00	0	0		
									point94	94	5,762,233.0	2,285,256.5	111.50	15.00	0.00	0	0		
									point93	93	5,762,213.5	2,285,260.5	111.50	15.00					
Home 21	W	0.00	99.99	0.00				0.00	point102	102	5,762,240.0	2,285,256.0	111.50	15.00	0.00	0	0		
									point101	101	5,762,264.0	2,285,310.8	111.50	15.00	0.00	0	0		
									point100	100	5,762,284.5	2,285,301.5	111.50	15.00	0.00	0	0		
									point99	99	5,762,265.0	2,285,246.8	111.50	15.00	0.00	0	0		
									point98	98	5,762,240.0	2,285,256.0	111.50	15.00					
Home 22	W	0.00	99.99	0.00				0.00	point107	107	5,762,292.5	2,285,240.5	112.40	15.00	0.00	0	0		
									point106	106	5,762,315.5	2,285,290.0	112.40	15.00	0.00	0	0		
									point105	105	5,762,336.0	2,285,280.0	112.40	15.00	0.00	0	0		
									point104	104	5,762,317.5	2,285,233.5	112.40	15.00	0.00	0	0		
									point103	103	5,762,292.5	2,285,240.5	112.40	15.00					
Home 23	W	0.00	99.99	0.00				0.00	point112	112	5,762,342.5	2,285,221.8	113.00	15.00	0.00	0	0		
									point111	111	5,762,369.5	2,285,277.0	113.00	15.00	0.00	0	0		
									point110	110	5,762,400.5	2,285,266.0	113.00	15.00	0.00	0	0		
									point109	109	5,762,377.0	2,285,210.0	113.00	15.00	0.00	0	0		
									point108	108	5,762,342.5	2,285,221.8	113.00	15.00					
Home 24	W	0.00	99.99	0.00				0.00	point117	117	5,762,381.5	2,285,204.8	114.70	15.00	0.00	0	0		
									point116	116	5,762,403.0	2,285,255.8	114.70	15.00	0.00	0	0		
									point115	115	5,762,423.0	2,285,247.8	114.70	15.00	0.00	0	0		
									point114	114	5,762,400.5	2,285,197.8	114.70	15.00	0.00	0	0		
									point113	113	5,762,381.5	2,285,204.8	114.70	15.00					
Home 25	W	0.00	99.99	0.00				0.00	point122	122	5,762,426.0	2,285,185.8	115.00	15.00	0.00	0	0		
									point121	121	5,762,448.5	2,285,241.5	115.00	15.00	0.00	0	0		
									point120	120	5,762,476.0	2,285,231.0	115.00	15.00	0.00	0	0		
									point119	119	5,762,448.5	2,285,176.5	115.00	15.00	0.00	0	0		
									point118	118	5,762,426.0	2,285,185.8	115.00	15.00					
Home 26	W	0.00	99.99	0.00				0.00	point127	127	5,762,454.5	2,285,172.5	115.00	15.00	0.00	0	0		
									point126	126	5,762,480.5	2,285,231.5	115.00	15.00	0.00	0	0		
									point125	125	5,762,514.0	2,285,216.8	115.00	15.00	0.00	0	0		
									point124	124	5,762,492.5	2,285,160.5	115.00	15.00	0.00	0	0		
									point123	123	5,762,454.5	2,285,172.5	115.00	15.00					
Home 27	W	0.00	99.99	0.00				0.00	point132	132	5,761,915.0	2,285,445.5	110.00	15.00	0.00	0	0		
									point131	131	5,761,946.5	2,285,486.5	110.00	15.00	0.00	0	0		
									point130	130	5,761,965.0	2,285,471.5	110.00	15.00	0.00	0	0		
									point129	129	5,761,933.5	2,285,431.8	110.00	15.00	0.00	0	0		
									point128	128	5,761,915.0	2,285,445.5	110.00	15.00					
Home 28	W	0.00	99.99	0.00				0.00	point137	137	5,761,879.0	2,285,477.0	110.00	15.00	0.00	0	0		

									point136	136	5,761,903.0	2,285,509.0	110.00	15.00	0.00	0	0		
									point135	135	5,761,931.5	2,285,486.0	110.00	15.00	0.00	0	0		
									point134	134	5,761,904.5	2,285,454.8	110.00	15.00	0.00	0	0		
									point133	133	5,761,879.0	2,285,477.0	110.00	15.00					
Home 29	W	0.00	99.99	0.00				0.00	point142	142	5,761,980.0	2,285,401.5	110.00	15.00	0.00	0	0		
									point141	141	5,762,002.5	2,285,429.0	110.00	15.00	0.00	0	0		
									point140	140	5,762,039.5	2,285,401.2	110.00	15.00	0.00	0	0		
									point139	139	5,762,021.0	2,285,376.2	110.00	15.00	0.00	0	0		
									point138	138	5,761,980.0	2,285,401.5	110.00	15.00					
Pool House	W	0.00	99.99	0.00				0.00	point147	147	5,762,176.0	2,285,471.8	111.30	15.00	0.00	0	0		
									point146	146	5,762,211.0	2,285,472.0	111.30	15.00	0.00	0	0		
									point145	145	5,762,210.5	2,285,451.8	111.30	15.00	0.00	0	0		
									point144	144	5,762,172.5	2,285,455.0	111.30	15.00	0.00	0	0		
									point143	143	5,762,176.0	2,285,471.8	111.30	15.00					
Home 30	W	0.00	99.99	0.00				0.00	point152	152	5,762,277.0	2,285,379.8	111.50	15.00	0.00	0	0		
									point151	151	5,762,321.0	2,285,358.2	111.50	15.00	0.00	0	0		
									point150	150	5,762,330.5	2,285,381.0	111.50	15.00	0.00	0	0		
									point149	149	5,762,288.5	2,285,399.0	111.50	15.00	0.00	0	0		
									point148	148	5,762,277.0	2,285,379.8	111.50	15.00					
Home 31	W	0.00	99.99	0.00				0.00	point157	157	5,762,387.5	2,285,346.5	111.50	15.00	0.00	0	0		
									point156	156	5,762,407.0	2,285,386.2	111.50	15.00	0.00	0	0		
									point155	155	5,762,431.5	2,285,371.2	111.50	15.00	0.00	0	0		
									point154	154	5,762,411.5	2,285,333.2	111.50	15.00	0.00	0	0		
									point153	153	5,762,387.5	2,285,346.5	111.50	15.00					
Home 32	W	0.00	99.99	0.00				0.00	point162	162	5,762,427.0	2,285,331.8	113.00	15.00	0.00	0	0		
									point161	161	5,762,444.0	2,285,364.2	113.00	15.00	0.00	0	0		
									point160	160	5,762,471.5	2,285,349.5	113.00	15.00	0.00	0	0		
									point159	159	5,762,453.0	2,285,314.5	113.00	15.00	0.00	0	0		
									point158	158	5,762,427.0	2,285,331.8	113.00	15.00					
Home 33	W	0.00	99.99	0.00				0.00	point167	167	5,762,459.5	2,285,310.5	114.70	15.00	0.00	0	0		
									point166	166	5,762,481.5	2,285,351.8	114.70	15.00	0.00	0	0		
									point165	165	5,762,502.0	2,285,338.0	114.70	15.00	0.00	0	0		
									point164	164	5,762,483.5	2,285,296.5	114.70	15.00	0.00	0	0		
									point163	163	5,762,459.5	2,285,310.5	114.70	15.00					
Home 34	W	0.00	99.99	0.00				0.00	point172	172	5,762,490.5	2,285,280.2	115.00	15.00	0.00	0	0		
									point171	171	5,762,518.5	2,285,333.2	115.00	15.00	0.00	0	0		
									point170	170	5,762,543.5	2,285,318.0	115.00	15.00	0.00	0	0		
									point169	169	5,762,515.0	2,285,265.5	115.00	15.00	0.00	0	0		
									point168	168	5,762,490.5	2,285,280.2	115.00	15.00					
Home 35	W	0.00	99.99	0.00				0.00	point177	177	5,762,524.0	2,285,273.0	115.00	15.00	0.00	0	0		
									point176	176	5,762,547.0	2,285,310.5	115.00	15.00	0.00	0	0		
									point175	175	5,762,575.5	2,285,289.8	115.00	15.00	0.00	0	0		
									point174	174	5,762,553.5	2,285,256.5	115.00	15.00	0.00	0	0		
									point173	173	5,762,524.0	2,285,273.0	115.00	15.00					
Home 36	W	0.00	99.99	0.00				0.00	point182	182	5,761,566.5	2,285,125.8	110.00	15.00	0.00	0	0		
									point181	181	5,761,601.0	2,285,122.8	110.00	15.00	0.00	0	0		
									point180	180	5,761,597.5	2,285,073.5	110.00	15.00	0.00	0	0		
									point179	179	5,761,564.0	2,285,075.0	110.00	15.00	0.00	0	0		
									point178	178	5,761,566.5	2,285,125.8	110.00	15.00					

Home 37	W	0.00	99.99	0.00				0.00	point187	187	5,761,617.0	2,285,122.0	110.00	15.00	0.00	0	0			
									point186	186	5,761,650.5	2,285,119.2	110.00	15.00	0.00	0	0			
									point185	185	5,761,647.0	2,285,063.8	110.00	15.00	0.00	0	0			
									point184	184	5,761,610.5	2,285,066.5	110.00	15.00	0.00	0	0			
									point183	183	5,761,617.0	2,285,122.0	110.00	15.00						
Building	W	0.00	99.99	0.00				0.00	point192	192	5,762,309.5	2,284,866.5	120.00	15.00	0.00	0	0			
									point191	191	5,762,201.0	2,284,924.5	120.00	15.00	0.00	0	0			
									point190	190	5,762,183.0	2,284,899.5	120.00	15.00	0.00	0	0			
									point189	189	5,762,291.0	2,284,831.5	120.00	15.00	0.00	0	0			
									point188	188	5,762,309.5	2,284,866.5	120.00	15.00						
Fence 1	W	0.00	99.99	0.00				0.00	point196	196	5,762,553.5	2,285,255.0	115.00	6.00	0.00	0	0			
									point195	195	5,762,545.5	2,285,242.0	115.00	6.00	0.00	0	0			
									point194	194	5,762,536.5	2,285,247.0	115.00	6.00						
Fence 2	W	0.00	99.99	0.00				0.00	point201	201	5,762,499.5	2,285,230.8	115.00	6.00	0.00	0	0			
									point200	200	5,762,502.0	2,285,238.5	115.00	6.00	0.00	0	0			
									point199	199	5,762,529.5	2,285,224.8	115.00	6.00	0.00	0	0			
									point198	198	5,762,522.5	2,285,208.8	115.00	6.00	0.00	0	0			
									point197	197	5,762,513.5	2,285,211.5	115.00	6.00						
Pool Fence	W	0.00	99.99	0.00				0.00	point206	206	5,760,348.5	2,285,954.5	110.00	6.00	0.00	0	0			
									point205	205	5,760,366.0	2,285,994.0	110.00	6.00	0.00	0	0			
									point204	204	5,760,383.5	2,285,995.5	110.00	6.00	0.00	0	0			
									point203	203	5,760,434.0	2,285,959.5	110.00	6.00	0.00	0	0			
									point202	202	5,760,387.5	2,285,857.0	110.00	6.00						
Building 2	W	0.00	99.99	0.00				0.00	point211	211	5,760,288.5	2,285,967.8	110.00	15.00	0.00	0	0			
									point210	210	5,760,235.5	2,285,863.5	110.00	15.00	0.00	0	0			
									point209	209	5,760,290.5	2,285,837.0	110.00	15.00	0.00	0	0			
									point208	208	5,760,343.5	2,285,941.8	110.00	15.00	0.00	0	0			
									point207	207	5,760,288.5	2,285,967.8	110.00	15.00						
Building 3	W	0.00	99.99	0.00				0.00	point216	216	5,760,319.0	2,285,837.5	110.00	15.00	0.00	0	0			
									point215	215	5,760,292.5	2,285,785.5	110.00	15.00	0.00	0	0			
									point214	214	5,760,396.5	2,285,734.0	110.00	15.00	0.00	0	0			
									point213	213	5,760,423.0	2,285,786.2	110.00	15.00	0.00	0	0			
									point212	212	5,760,319.0	2,285,837.5	110.00	15.00						
Building 4	W	0.00	99.99	0.00				0.00	point221	221	5,760,508.5	2,285,838.2	110.00	15.00	0.00	0	0			
									point220	220	5,760,476.0	2,285,767.2	110.00	15.00	0.00	0	0			
									point219	219	5,760,500.0	2,285,753.0	110.00	15.00	0.00	0	0			
									point218	218	5,760,533.5	2,285,823.2	110.00	15.00	0.00	0	0			
									point217	217	5,760,508.5	2,285,838.2	110.00	15.00						

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

INPUT: TERRAIN LINES
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Future No Build Conditions

Terrain Line Name	Points No.	Coordinates (ground) X ft	Y ft	Z ft
Los Oso Valley WB	40	5,762,477.0	2,285,082.2	117.20
	39	5,762,347.5	2,285,152.0	113.70
	38	5,762,225.0	2,285,186.0	111.90
	37	5,762,093.0	2,285,199.2	111.10
	36	5,761,961.5	2,285,212.2	110.10
	35	5,761,817.5	2,285,224.0	109.40
	34	5,761,685.0	2,285,238.0	108.80
	33	5,761,553.5	2,285,256.2	108.40
	32	5,761,436.5	2,285,289.8	108.60
	31	5,761,343.0	2,285,340.2	109.30
	30	5,761,255.5	2,285,404.0	110.80
	29	5,761,176.0	2,285,469.5	114.60
	28	5,761,108.0	2,285,552.5	120.20
	27	5,761,043.5	2,285,660.2	120.30
	26	5,760,995.5	2,285,775.8	126.10
	25	5,760,956.0	2,285,887.2	127.30
	24	5,760,917.5	2,285,997.0	129.80
	23	5,760,881.5	2,286,104.2	129.60
	22	5,760,835.5	2,286,242.2	127.40
	21	5,760,800.5	2,286,351.8	119.80
	20	5,760,754.5	2,286,488.8	112.10
	19	5,760,735.5	2,286,603.0	109.20
	18	5,760,700.0	2,286,744.0	108.30
	17	5,760,649.5	2,286,882.5	108.10

	16	5,760,601.5	2,287,001.8	110.20
	15	5,760,559.0	2,287,105.2	109.40
	14	5,760,506.0	2,287,222.2	111.80
	13	5,760,454.5	2,287,334.2	112.70
	12	5,760,398.0	2,287,440.5	112.10
	11	5,760,338.5	2,287,548.5	113.40
	10	5,760,273.5	2,287,659.2	115.30
	9	5,760,200.0	2,287,776.2	114.90
	8	5,760,129.0	2,287,887.0	115.40
	7	5,760,069.0	2,287,981.0	116.90
	6	5,760,000.5	2,288,084.8	117.60
	5	5,759,937.0	2,288,186.0	117.20
	4	5,759,869.5	2,288,284.5	117.20
	3	5,759,804.0	2,288,382.0	117.20
	2	5,759,747.5	2,288,466.2	117.20
	1	5,759,689.5	2,288,554.2	117.20
Los Oso Valley EB	80	5,762,455.0	2,285,023.5	117.20
	79	5,762,332.0	2,285,097.2	113.70
	78	5,762,216.5	2,285,132.0	111.90
	77	5,762,088.0	2,285,145.0	111.30
	76	5,761,956.5	2,285,155.5	110.10
	75	5,761,812.5	2,285,167.8	109.40
	74	5,761,679.5	2,285,178.8	108.80
	73	5,761,543.0	2,285,207.0	108.40
	72	5,761,422.5	2,285,260.0	108.60
	71	5,761,326.5	2,285,312.0	109.30
	70	5,761,236.5	2,285,373.0	110.80
	69	5,761,152.0	2,285,444.0	114.60
	68	5,761,078.0	2,285,523.0	120.20
	67	5,761,004.0	2,285,639.5	120.30
	66	5,760,959.5	2,285,762.5	126.10
	65	5,760,921.5	2,285,874.0	127.30
	64	5,760,883.0	2,285,983.5	129.80
	63	5,760,843.5	2,286,093.0	129.60
	62	5,760,795.5	2,286,231.8	127.40

	61	5,760,757.5	2,286,343.0	119.80
	60	5,760,704.5	2,286,471.8	112.10
	59	5,760,673.0	2,286,583.2	109.20
	58	5,760,626.0	2,286,717.0	108.30
	57	5,760,583.0	2,286,857.0	108.10
	56	5,760,541.0	2,286,979.0	110.20
	55	5,760,497.0	2,287,082.0	109.40
	54	5,760,441.0	2,287,194.0	111.80
	53	5,760,389.0	2,287,301.8	112.70
	52	5,760,335.0	2,287,409.0	112.10
	51	5,760,273.5	2,287,516.2	113.40
	50	5,760,209.0	2,287,621.2	115.30
	49	5,760,135.5	2,287,738.0	114.90
	48	5,760,064.5	2,287,848.8	115.40
	47	5,760,005.0	2,287,936.5	116.90
	46	5,759,933.0	2,288,037.5	117.60
	45	5,759,864.0	2,288,138.8	117.20
	44	5,759,793.0	2,288,237.5	117.20
	43	5,759,725.0	2,288,335.5	117.20
	42	5,759,668.5	2,288,419.8	117.20
	41	5,759,610.5	2,288,507.5	117.20
Higuera NB	110	5,761,764.5	2,283,719.0	118.90
	109	5,761,817.5	2,283,807.8	118.90
	108	5,761,870.0	2,283,897.8	118.90
	107	5,761,914.5	2,283,973.5	118.90
	106	5,761,960.5	2,284,054.8	118.90
	105	5,762,010.0	2,284,141.0	118.90
	104	5,762,065.0	2,284,233.0	118.90
	103	5,762,114.0	2,284,315.2	118.90
	102	5,762,165.5	2,284,405.0	118.90
	101	5,762,213.5	2,284,484.5	119.10
	100	5,762,268.5	2,284,576.5	119.40
	99	5,762,318.0	2,284,655.8	118.80
	98	5,762,374.0	2,284,747.8	118.30
	97	5,762,426.5	2,284,836.0	118.90

	96	5,762,471.5	2,284,915.5	117.90
	95	5,762,525.5	2,285,007.5	117.70
	94	5,762,569.0	2,285,087.8	117.80
	93	5,762,615.0	2,285,168.5	117.80
	92	5,762,662.5	2,285,250.8	117.50
	91	5,762,713.0	2,285,330.0	117.00
	90	5,762,773.0	2,285,423.5	117.70
	89	5,762,817.0	2,285,500.0	117.20
	88	5,762,862.5	2,285,588.5	117.30
	87	5,762,914.5	2,285,687.0	118.10
	86	5,762,976.0	2,285,802.2	117.70
	85	5,763,040.5	2,285,924.5	117.80
	84	5,763,095.5	2,286,030.2	117.80
	83	5,763,150.5	2,286,111.5	117.80
Higuera SB	139	5,761,733.5	2,283,737.5	118.90
	138	5,761,785.5	2,283,826.2	118.90
	137	5,761,839.5	2,283,918.2	118.90
	136	5,761,885.0	2,283,992.5	118.90
	135	5,761,931.0	2,284,072.8	118.90
	134	5,761,980.5	2,284,158.8	118.90
	133	5,762,035.0	2,284,251.8	118.90
	132	5,762,084.0	2,284,334.0	118.90
	131	5,762,135.5	2,284,424.0	118.90
	130	5,762,183.5	2,284,503.5	119.10
	129	5,762,235.0	2,284,595.0	119.40
	128	5,762,281.5	2,284,677.0	118.80
	127	5,762,333.0	2,284,772.0	118.30
	126	5,762,383.5	2,284,862.0	118.00
	125	5,762,427.5	2,284,942.0	117.90
	124	5,762,483.5	2,285,031.0	117.70
	123	5,762,527.0	2,285,111.0	117.80
	122	5,762,573.0	2,285,191.8	117.80
	121	5,762,624.0	2,285,276.2	117.50
	120	5,762,671.0	2,285,353.0	117.00
	119	5,762,726.5	2,285,451.0	117.70

	118	5,762,768.0	2,285,527.5	117.20
	117	5,762,813.5	2,285,616.2	117.30
	116	5,762,865.5	2,285,714.8	118.10
	115	5,762,927.0	2,285,829.8	117.70
	114	5,762,991.5	2,285,952.0	117.80
	113	5,763,046.5	2,286,058.0	117.80
	112	5,763,101.0	2,286,139.2	117.80
US 101 NB Off-Ramp	220	5,761,039.0	2,285,548.0	120.20
	219	5,760,990.0	2,285,500.5	121.60
	218	5,760,919.5	2,285,427.0	117.90
	217	5,760,854.5	2,285,357.2	114.30
	216	5,760,787.5	2,285,291.0	110.30
	215	5,760,725.0	2,285,222.2	108.50
	214	5,760,660.5	2,285,137.5	107.50
	213	5,760,605.5	2,285,041.5	106.40
	212	5,760,563.5	2,284,947.2	105.30
	211	5,760,533.0	2,284,846.5	104.00
	210	5,760,517.5	2,284,747.5	103.00
	209	5,760,505.5	2,284,641.2	102.50
	208	5,760,490.0	2,284,536.5	104.00
	207	5,760,480.5	2,284,450.2	105.00
	206	5,760,468.5	2,284,346.2	106.00
US 101 SB Off-Ramp	225	5,760,796.0	2,286,543.5	105.00
	224	5,760,904.5	2,286,587.2	107.00
	223	5,761,024.5	2,286,645.8	110.00
	222	5,761,120.0	2,286,707.2	111.00
	221	5,761,207.0	2,286,834.5	113.80
US 101 NB 1	238	5,760,423.5	2,283,770.0	115.00
	237	5,760,437.5	2,283,950.0	109.70
	236	5,760,446.5	2,284,089.2	108.50
	235	5,760,449.0	2,284,274.2	107.30
	234	5,760,457.0	2,284,457.5	105.00
	233	5,760,468.0	2,284,638.2	103.60
	232	5,760,479.5	2,284,804.5	102.00
	231	5,760,499.0	2,284,998.0	101.10

	230	5,760,535.5	2,285,170.0	101.40
	229	5,760,586.0	2,285,341.0	102.20
	228	5,760,654.5	2,285,515.0	105.00
	227	5,760,737.0	2,285,673.0	106.80
	226	5,760,821.5	2,285,835.0	105.00
US 101 NB 2	250	5,760,948.5	2,286,078.5	107.30
	249	5,761,054.5	2,286,276.2	109.20
	248	5,761,206.5	2,286,565.8	111.50
	247	5,761,343.0	2,286,827.0	115.00
	246	5,761,481.0	2,287,086.5	117.00
	245	5,761,612.0	2,287,339.5	119.00
	244	5,761,771.5	2,287,639.0	120.70
	243	5,761,936.5	2,287,950.0	123.70
	242	5,762,096.5	2,288,259.0	125.00
	241	5,762,241.5	2,288,531.0	125.00
	240	5,762,375.5	2,288,785.8	128.50
	239	5,762,516.5	2,289,056.0	130.00
US 101 SB 1	263	5,760,312.5	2,283,773.8	109.70
	262	5,760,332.0	2,283,954.5	109.60
	261	5,760,339.0	2,284,096.0	108.50
	260	5,760,344.5	2,284,281.5	106.70
	259	5,760,355.5	2,284,464.8	105.10
	258	5,760,364.0	2,284,648.8	103.60
	257	5,760,375.5	2,284,812.5	103.50
	256	5,760,393.5	2,285,012.0	103.60
	255	5,760,431.5	2,285,191.0	104.10
	254	5,760,486.5	2,285,377.0	105.30
	253	5,760,565.0	2,285,560.5	106.70
	252	5,760,646.0	2,285,721.5	106.80
	251	5,760,769.5	2,285,957.0	106.70
US 101 SB 2	275	5,760,886.5	2,286,177.8	108.40
	274	5,760,964.0	2,286,324.8	109.20
	273	5,761,116.0	2,286,614.2	111.50
	272	5,761,252.0	2,286,875.5	115.00
	271	5,761,390.0	2,287,135.0	117.00

	270	5,761,521.5	2,287,388.0	119.50
	269	5,761,681.0	2,287,687.5	120.70
	268	5,761,845.5	2,287,998.5	123.60
	267	5,762,005.5	2,288,307.5	125.00
	266	5,762,150.5	2,288,579.5	125.00
	265	5,762,284.5	2,288,834.2	128.50
	264	5,762,430.5	2,289,102.0	130.00

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

RESULTS: BARRIER DESCRIPTIONS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Future No Build Conditions
BARRIER DESIGN: INPUT HEIGHTS

Barriers

Name	Type	Heights along Barrier			Length	If Wall	If Berm			Cost
		Min	Avg	Max		Area	Volume	Top Width	Run:Rise	
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	$
Home 1	W	15.00	15.00	15.00	203	3044				0
Home 2	W	15.00	15.00	15.00	169	2535				0
Home 3	W	15.00	15.00	15.00	171	2558				0
Home 4	W	15.00	15.00	15.00	169	2537				0
Home 5	W	15.00	15.00	15.00	210	3146				0
Home 6	W	15.00	15.00	15.00	190	2848				0
Home 7	W	15.00	15.00	15.00	167	2502				0
Home 8	W	15.00	15.00	15.00	189	2837				0
Home 9	W	15.00	15.00	15.00	169	2535				0
Home 10	W	15.00	15.00	15.00	159	2390				0
Home 11	W	15.00	15.00	15.00	261	3920				0
Home 12	W	15.00	15.00	15.00	154	2316				0
Daycare	W	15.00	15.00	15.00	343	5143				0
Home 14	W	15.00	15.00	15.00	161	2419				0
Home 15	W	15.00	15.00	15.00	181	2710				0
Home 16	W	15.00	15.00	15.00	188	2813				0
Home 17	W	15.00	15.00	15.00	162	2435				0
Home 19	W	15.00	15.00	15.00	171	2568				0
Home 20	W	15.00	15.00	15.00	169	2528				0
Home 21	W	15.00	15.00	15.00	167	2506				0
Home 22	W	15.00	15.00	15.00	153	2301				0
Home 23	W	15.00	15.00	15.00	192	2873				0
Home 24	W	15.00	15.00	15.00	152	2279				0

Home 25	W	15.00	15.00	15.00	175	2624				0
Home 26	W	15.00	15.00	15.00	201	3017				0
Home 27	W	15.00	15.00	15.00	149	2239				0
Home 28	W	15.00	15.00	15.00	152	2276				0
Home 29	W	15.00	15.00	15.00	161	2416				0
Pool House	W	15.00	15.00	15.00	111	1658				0
Home 30	W	15.00	15.00	15.00	142	2126				0
Home 31	W	15.00	15.00	15.00	143	2150				0
Home 32	W	15.00	15.00	15.00	139	2080				0
Home 33	W	15.00	15.00	15.00	145	2170				0
Home 34	W	15.00	15.00	15.00	178	2663				0
Home 35	W	15.00	15.00	15.00	153	2294				0
Home 36	W	15.00	15.00	15.00	168	2525				0
Home 37	W	15.00	15.00	15.00	182	2726				0
Building	W	15.00	15.00	15.00	321	4816				0
Fence 1	W	6.00	6.00	6.00	26	153				0
Fence 2	W	6.00	6.00	6.00	66	395				0
Pool Fence	W	6.00	6.00	6.00	235	1412				0
Building 2	W	15.00	15.00	15.00	356	5343				0
Building 3	W	15.00	15.00	15.00	349	5234				0
Building 4	W	15.00	15.00	15.00	213	3195				0
									Total Cost:	0

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5

RESULTS: BARRIER-SEGMENT DESCRIPTIONS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Future No Build Conditions
BARRIER DESIGN: INPUT HEIGHTS

Barriers		Segments										
Name	Type	Name	No.	Heights First Point	Average	Second Point	Length	If Wall Area	On Struc?	Important Reflections?	If Berm Volume	Cost
				ft	ft	ft	ft	sq ft			cu yd	$
Home 1	W	point5	5	15.00	15.00	15.00	65	981				0
		point4	4	15.00	15.00	15.00	33	499				0
		point3	3	15.00	15.00	15.00	69	1033				0
		point2	2	15.00	15.00	15.00	35	532				0
Home 2	W	point10	10	15.00	15.00	15.00	57	855				0
		point9	9	15.00	15.00	15.00	30	454				0
		point8	8	15.00	15.00	15.00	53	794				0
		point7	7	15.00	15.00	15.00	29	432				0
Home 3	W	point15	15	15.00	15.00	15.00	50	750				0
		point14	14	15.00	15.00	15.00	38	564				0
		point13	13	15.00	15.00	15.00	49	741				0
		point12	12	15.00	15.00	15.00	34	504				0
Home 4	W	point20	20	15.00	15.00	15.00	50	755				0
		point19	19	15.00	15.00	15.00	35	522				0
		point18	18	15.00	15.00	15.00	51	761				0
		point17	17	15.00	15.00	15.00	33	499				0
Home 5	W	point25	25	15.00	15.00	15.00	67	1001				0
		point24	24	15.00	15.00	15.00	39	585				0
		point23	23	15.00	15.00	15.00	69	1038				0
		point22	22	15.00	15.00	15.00	35	523				0
Home 6	W	point30	30	15.00	15.00	15.00	67	1002				0

		point29	29	15.00	15.00	15.00	28	414				0
		point28	28	15.00	15.00	15.00	67	1000				0
		point27	27	15.00	15.00	15.00	29	432				0
Home 7	W	point35	35	15.00	15.00	15.00	60	905				0
		point34	34	15.00	15.00	15.00	21	320				0
		point33	33	15.00	15.00	15.00	62	933				0
		point32	32	15.00	15.00	15.00	23	345				0
Home 8	W	point40	40	15.00	15.00	15.00	67	1008				0
		point39	39	15.00	15.00	15.00	26	395				0
		point38	38	15.00	15.00	15.00	68	1022				0
		point37	37	15.00	15.00	15.00	27	411				0
Home 9	W	point45	45	15.00	15.00	15.00	35	521				0
		point44	44	15.00	15.00	15.00	48	725				0
		point43	43	15.00	15.00	15.00	37	557				0
		point42	42	15.00	15.00	15.00	49	732				0
Home 10	W	point50	50	15.00	15.00	15.00	42	624				0
		point49	49	15.00	15.00	15.00	38	563				0
		point48	48	15.00	15.00	15.00	42	625				0
		point47	47	15.00	15.00	15.00	39	578				0
Home 11	W	point57	57	15.00	15.00	15.00	35	520				0
		point56	56	15.00	15.00	15.00	50	755				0
		point55	55	15.00	15.00	15.00	23	343				0
		point54	54	15.00	15.00	15.00	24	364				0
		point53	53	15.00	15.00	15.00	65	981				0
		point52	52	15.00	15.00	15.00	64	957				0
Home 12	W	point62	62	15.00	15.00	15.00	55	824				0
		point61	61	15.00	15.00	15.00	22	336				0
		point60	60	15.00	15.00	15.00	53	800				0
		point59	59	15.00	15.00	15.00	24	356				0
Daycare	W	point67	67	15.00	15.00	15.00	37	560				0
		point66	66	15.00	15.00	15.00	129	1942				0
		point65	65	15.00	15.00	15.00	51	758				0

		point64	64	15.00	15.00	15.00	126	1883				0
Home 14	W	point72	72	15.00	15.00	15.00	60	896				0
		point71	71	15.00	15.00	15.00	21	318				0
		point70	70	15.00	15.00	15.00	59	888				0
		point69	69	15.00	15.00	15.00	21	317				0
Home 15	W	point77	77	15.00	15.00	15.00	30	452				0
		point76	76	15.00	15.00	15.00	61	917				0
		point75	75	15.00	15.00	15.00	28	422				0
		point74	74	15.00	15.00	15.00	61	919				0
Home 16	W	point82	82	15.00	15.00	15.00	61	915				0
		point81	81	15.00	15.00	15.00	33	497				0
		point80	80	15.00	15.00	15.00	61	911				0
		point79	79	15.00	15.00	15.00	33	490				0
Home 17	W	point87	87	15.00	15.00	15.00	62	931				0
		point86	86	15.00	15.00	15.00	18	271				0
		point85	85	15.00	15.00	15.00	62	932				0
		point84	84	15.00	15.00	15.00	20	301				0
Home 19	W	point92	92	15.00	15.00	15.00	55	819				0
		point91	91	15.00	15.00	15.00	31	472				0
		point90	90	15.00	15.00	15.00	54	803				0
		point89	89	15.00	15.00	15.00	32	474				0
Home 20	W	point97	97	15.00	15.00	15.00	64	967				0
		point96	96	15.00	15.00	15.00	24	362				0
		point95	95	15.00	15.00	15.00	60	899				0
		point94	94	15.00	15.00	15.00	20	299				0
Home 21	W	point102	102	15.00	15.00	15.00	60	897				0
		point101	101	15.00	15.00	15.00	22	337				0
		point100	100	15.00	15.00	15.00	58	872				0
		point99	99	15.00	15.00	15.00	27	400				0
Home 22	W	point107	107	15.00	15.00	15.00	55	819				0
		point106	106	15.00	15.00	15.00	23	342				0

		point105	105	15.00	15.00	15.00	50	751				0
		point104	104	15.00	15.00	15.00	26	389				0
Home 23	W	point112	112	15.00	15.00	15.00	61	922				0
		point111	111	15.00	15.00	15.00	33	493				0
		point110	110	15.00	15.00	15.00	61	911				0
		point109	109	15.00	15.00	15.00	36	547				0
Home 24	W	point117	117	15.00	15.00	15.00	55	830				0
		point116	116	15.00	15.00	15.00	22	323				0
		point115	115	15.00	15.00	15.00	55	822				0
		point114	114	15.00	15.00	15.00	20	304				0
Home 25	W	point122	122	15.00	15.00	15.00	60	902				0
		point121	121	15.00	15.00	15.00	29	442				0
		point120	120	15.00	15.00	15.00	61	916				0
		point119	119	15.00	15.00	15.00	24	365				0
Home 26	W	point127	127	15.00	15.00	15.00	64	967				0
		point126	126	15.00	15.00	15.00	37	549				0
		point125	125	15.00	15.00	15.00	60	903				0
		point124	124	15.00	15.00	15.00	40	598				0
Home 27	W	point132	132	15.00	15.00	15.00	52	776				0
		point131	131	15.00	15.00	15.00	24	357				0
		point130	130	15.00	15.00	15.00	51	761				0
		point129	129	15.00	15.00	15.00	23	346				0
Home 28	W	point137	137	15.00	15.00	15.00	40	600				0
		point136	136	15.00	15.00	15.00	37	549				0
		point135	135	15.00	15.00	15.00	41	619				0
		point134	134	15.00	15.00	15.00	34	508				0
Home 29	W	point142	142	15.00	15.00	15.00	36	533				0
		point141	141	15.00	15.00	15.00	46	694				0
		point140	140	15.00	15.00	15.00	31	467				0
		point139	139	15.00	15.00	15.00	48	722				0
Pool House	W	point147	147	15.00	15.00	15.00	35	525				0

		point146	146	15.00	15.00	15.00	20	304				0
		point145	145	15.00	15.00	15.00	38	572				0
		point144	144	15.00	15.00	15.00	17	257				0
Home 30	W	point152	152	15.00	15.00	15.00	49	735				0
		point151	151	15.00	15.00	15.00	25	370				0
		point150	150	15.00	15.00	15.00	46	685				0
		point149	149	15.00	15.00	15.00	22	336				0
Home 31	W	point157	157	15.00	15.00	15.00	44	664				0
		point156	156	15.00	15.00	15.00	29	431				0
		point155	155	15.00	15.00	15.00	43	644				0
		point154	154	15.00	15.00	15.00	27	411				0
Home 32	W	point162	162	15.00	15.00	15.00	37	550				0
		point161	161	15.00	15.00	15.00	31	468				0
		point160	160	15.00	15.00	15.00	40	594				0
		point159	159	15.00	15.00	15.00	31	468				0
Home 33	W	point167	167	15.00	15.00	15.00	47	701				0
		point166	166	15.00	15.00	15.00	25	370				0
		point165	165	15.00	15.00	15.00	45	682				0
		point164	164	15.00	15.00	15.00	28	417				0
Home 34	W	point172	172	15.00	15.00	15.00	60	899				0
		point171	171	15.00	15.00	15.00	29	439				0
		point170	170	15.00	15.00	15.00	60	896				0
		point169	169	15.00	15.00	15.00	29	429				0
Home 35	W	point177	177	15.00	15.00	15.00	44	660				0
		point176	176	15.00	15.00	15.00	35	529				0
		point175	175	15.00	15.00	15.00	40	598				0
		point174	174	15.00	15.00	15.00	34	507				0
Home 36	W	point182	182	15.00	15.00	15.00	35	519				0
		point181	181	15.00	15.00	15.00	49	741				0
		point180	180	15.00	15.00	15.00	34	503				0
		point179	179	15.00	15.00	15.00	51	762				0

Home 37	W	point187	187	15.00	15.00	15.00	34	504				0
		point186	186	15.00	15.00	15.00	56	834				0
		point185	185	15.00	15.00	15.00	37	549				0
		point184	184	15.00	15.00	15.00	56	838				0
Building	W	point192	192	15.00	15.00	15.00	123	1845				0
		point191	191	15.00	15.00	15.00	31	462				0
		point190	190	15.00	15.00	15.00	128	1914				0
		point189	189	15.00	15.00	15.00	40	594				0
Fence 1	W	point196	196	6.00	6.00	6.00	15	92				0
		point195	195	6.00	6.00	6.00	10	62				0
Fence 2	W	point201	201	6.00	6.00	6.00	8	49				0
		point200	200	6.00	6.00	6.00	31	184				0
		point199	199	6.00	6.00	6.00	17	105				0
		point198	198	6.00	6.00	6.00	9	56				0
Pool Fence	W	point206	206	6.00	6.00	6.00	43	259				0
		point205	205	6.00	6.00	6.00	18	105				0
		point204	204	6.00	6.00	6.00	62	372				0
		point203	203	6.00	6.00	6.00	113	675				0
Building 2	W	point211	211	15.00	15.00	15.00	117	1754				0
		point210	210	15.00	15.00	15.00	61	916				0
		point209	209	15.00	15.00	15.00	117	1761				0
		point208	208	15.00	15.00	15.00	61	913				0
Building 3	W	point216	216	15.00	15.00	15.00	58	875				0
		point215	215	15.00	15.00	15.00	116	1741				0
		point214	214	15.00	15.00	15.00	59	879				0
		point213	213	15.00	15.00	15.00	116	1739				0
Building 4	W	point221	221	15.00	15.00	15.00	78	1171				0
		point220	220	15.00	15.00	15.00	28	419				0
		point219	219	15.00	15.00	15.00	78	1167				0
		point218	218	15.00	15.00	15.00	29	437				0

LSA Associates, Inc.
Jason Lui

2 September 2006
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Future No Build Conditions
BARRIER DESIGN: INPUT HEIGHTS

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

ATMOSPHERICS: 68 deg F, 50% RH

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-1	1	1	0.0	69.4	66	69.4	12	Snd Lvl	69.4	0.0	8	-8.0
R-2	2	1	0.0	68.9	66	68.9	12	Snd Lvl	68.9	0.0	8	-8.0
R-3	3	1	0.0	70.6	66	70.6	12	Snd Lvl	70.6	0.0	8	-8.0
R-4	4	1	0.0	69.7	66	69.7	12	Snd Lvl	69.7	0.0	8	-8.0
R-5	5	1	0.0	68.3	66	68.3	12	Snd Lvl	68.3	0.0	8	-8.0
R-6	6	1	0.0	69.8	66	69.8	12	Snd Lvl	69.8	0.0	8	-8.0
R-7	7	1	0.0	58.1	66	58.1	12	----	58.1	0.0	8	-8.0
R-8	8	1	0.0	57.7	66	57.7	12	----	57.7	0.0	8	-8.0
R-9	9	1	0.0	56.2	66	56.2	12	----	56.2	0.0	8	-8.0
R-10	10	1	0.0	57.4	66	57.4	12	----	57.4	0.0	8	-8.0
R-11	11	1	0.0	56.7	66	56.7	12	----	56.7	0.0	8	-8.0
R-12	12	1	0.0	56.5	66	56.5	12	----	56.5	0.0	8	-8.0
R-13	13	1	0.0	51.6	66	51.6	12	----	51.6	0.0	8	-8.0
R-14	14	1	0.0	50.0	66	50.0	12	----	50.0	0.0	8	-8.0
R-15	15	1	0.0	56.3	66	56.3	12	----	56.3	0.0	8	-8.0
R-16	16	1	0.0	62.3	66	62.3	12	----	62.3	0.0	8	-8.0
R-17	17	1	0.0	64.0	66	64.0	12	----	64.0	0.0	8	-8.0
R-18	18	1	0.0	46.8	66	46.8	12	----	46.8	0.0	8	-8.0
R-19	19	1	0.0	53.5	66	53.5	12	----	53.5	0.0	8	-8.0
R-20	20	1	0.0	59.7	66	59.7	12	----	59.7	0.0	8	-8.0
R-21	21	1	0.0	53.4	66	53.4	12	----	53.4	0.0	8	-8.0
R-22	22	1	0.0	57.2	66	57.2	12	----	57.2	0.0	8	-8.0
R-23	23	1	0.0	61.1	66	61.1	12	----	61.1	0.0	8	-8.0

R-24	24	1	0.0	52.5	66	52.5	12	----	52.5	0.0	8	-8.0
R-25	25	1	0.0	57.0	66	57.0	12	----	57.0	0.0	8	-8.0
R-26	26	1	0.0	53.8	66	53.8	12	----	53.8	0.0	8	-8.0
R-27	27	1	0.0	58.6	66	58.6	12	----	58.6	0.0	8	-8.0
R-28	28	1	0.0	58.4	66	58.4	12	----	58.4	0.0	8	-8.0
R-29	29	1	0.0	63.5	66	63.5	12	----	63.5	0.0	8	-8.0
R-30	30	1	0.0	57.0	66	57.0	12	----	57.0	0.0	8	-8.0
R-31	31	1	0.0	51.9	66	51.9	12	----	51.9	0.0	8	-8.0
R-32	32	1	0.0	58.3	66	58.3	12	----	58.3	0.0	8	-8.0
R-33	33	1	0.0	56.0	66	56.0	12	----	56.0	0.0	8	-8.0
R-34	34	1	0.0	52.9	66	52.9	12	----	52.9	0.0	8	-8.0
R-35	35	1	0.0	54.2	66	54.2	12	----	54.2	0.0	8	-8.0
R-36	36	1	0.0	52.5	66	52.5	12	----	52.5	0.0	8	-8.0
R-37	37	1	0.0	63.7	66	63.7	12	----	63.7	0.0	8	-8.0
R-38	39	1	0.0	57.6	66	57.6	12	----	57.6	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction		
		Min	Avg	Max
		dB	dB	dB
All Selected	38	0.0	0.0	0.0
All Impacted	6	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

LSA Associates, Inc.													9-Oct-06			
Jason Lui													TNM 2.5			
													Calculated with TNM 2.5			
Results:	Sound Levels															
Project/Co	DEC0603															
Run:	Future NoBuild															
							Increase over existing			With Barrier		Noise Reduction				
					Calculated	Crit'n	Calculated	Crit'n Sub'l	Type Impa	Calculated	With Calibr	Calculated	Goal	Calculated minus Goal		
Name	No.	Calibration	#DUs	Existing Leq	dBA	dBA	dB	dB	dBA	dBA	dBA	dB	dB	dB		
R-1"	1	-2.8	1	0	72.2	66	72.2	10	Snd Lvl	72.2	0	8	0			
R-2"	2	-2.8	1	0	71.7	66	71.7	10	Snd Lvl	71.7	0	8	0			
R-3"	3	-2.8	1	0	73.4	66	73.4	10	Snd Lvl	73.4	0	8	0			
R-4"	4	1.8	1	0	67.9	66	67.9	10	Snd Lvl	67.9	0	8	0			
R-5"	5	1.8	1	0	66.5	66	66.5	10	Snd Lvl	66.5	0	8	0			
R-6"	6	1.8	1	0	68	66	68	10	Snd Lvl	68	0	8	0			
R-7"	7	-6.6	1	0	64.7	66	64.7	10	----	64.7	0	8	0			
R-8"	8	-6.6	1	0	64.3	66	64.3	10	----	64.3	0	8	0			
R-9"	9	-6.6	1	0	62.8	66	62.8	10	----	62.8	0	8	0			
R-10"	10	-6.6	1	0	64	66	64	10	----	64	0	8	0			
R-11"	11	-6.6	1	0	63.3	66	63.3	10	----	63.3	0	8	0			
R-12"	12	-6.6	1	0	63.1	66	63.1	10	----	63.1	0	8	0			
R-13"	13	-2.8	1	0	54.4	66	54.4	10	----	54.4	0	8	0			
R-14"	14	-2.8	1	0	52.8	66	52.8	10	----	52.8	0	8	0			
R-15"	15	-2.8	1	0	59.1	66	59.1	10	----	59.1	0	8	0			
R-16"	16	-1.6	1	0	63.9	66	63.9	10	----	63.9	0	8	0			
R-17"	17	-1.6	1	0	65.6	66	65.6	10	----	65.6	0	8	0			
R-18"	18	-2.8	1	0	49.6	66	49.6	10	----	49.6	0	8	0			
R-19"	19	-2.8	1	0	56.3	66	56.3	10	----	56.3	0	8	0			
R-20"	20	-2.8	1	0	62.5	66	62.5	10	----	62.5	0	8	0			
R-21"	21	-2.8	1	0	56.2	66	56.2	10	----	56.2	0	8	0			
R-22"	22	-1.6	1	0	58.8	66	58.8	10	----	58.8	0	8	0			
R-23"	23	-0.7	1	0	61.8	66	61.8	10	----	61.8	0	8	0			
R-24"	24	-0.7	1	0	53.2	66	53.2	10	----	53.2	0	8	0			
R-25"	25	-1.1	1	0	58.1	66	58.1	10	----	58.1	0	8	0			
R-26"	26	-1.1	1	0	54.9	66	54.9	10	----	54.9	0	8	0			
R-27"	27	-1.1	1	0	59.7	66	59.7	10	----	59.7	0	8	0			
R-28"	28	-0.3	1	0	58.7	66	58.7	10	----	58.7	0	8	0			
R-29"	30	-0.3	1	0	63.8	66	63.8	10	----	63.8	0	8	0			
R-30"	31	-0.7	1	0	57.7	66	57.7	10	----	57.7	0	8	0			
R-31"	32	-0.7	1	0	52.6	66	52.6	10	----	52.6	0	8	0			
R-32"	33	-0.7	1	0	59	66	59	10	----	59	0	8	0			
R-33"	34	-1.1	1	0	57.1	66	57.1	10	----	57.1	0	8	0			
R-31"	35	-1.1	1	0	54	66	54	10	----	54	0	8	0			
R-32"	36	-0.3	1	0	54.5	66	54.5	10	----	54.5	0	8	0			
R-33"	37	-0.3	1	0	52.8	66	52.8	10	----	52.8	0	8	0			
R-31"	38	-0.3	1	0	64	66	64	10	----	64	0	8	0			
R-32"	39	1.8	1	0	55.8	66	55.8	10	----	55.8	0	8	0			

APPENDIX D

TRAFFIC NOISE MODEL (TNM) 2.5 PRINTOUTS FOR ALTERNATIVE 3 CONDITIONS WITHOUT SOUND WALLS

LSA Associates, Inc.
Jason Lui

9 October 2006
TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Alternative 3 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		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Higuera NB	24.0	point147	147	5,761,753.0	2,283,727.0	118.90				Average	
		point118	118	5,761,806.5	2,283,815.8	118.90				Average	
		point117	117	5,761,858.5	2,283,905.8	118.90				Average	
		point116	116	5,761,903.5	2,283,981.5	118.90				Average	
		point115	115	5,761,949.5	2,284,062.8	118.90				Average	
		point114	114	5,761,999.0	2,284,148.8	118.90				Average	
		point113	113	5,762,054.0	2,284,240.8	118.90				Average	
		point112	112	5,762,103.0	2,284,323.2	118.90				Average	
		point111	111	5,762,154.5	2,284,413.0	118.90				Average	
		point110	110	5,762,202.5	2,284,492.5	119.10				Average	
		point109	109	5,762,257.5	2,284,584.5	119.40				Average	
		point108	108	5,762,307.0	2,284,663.8	118.80				Average	
		point107	107	5,762,362.5	2,284,755.8	118.30				Average	
		point106	106	5,762,415.5	2,284,844.0	118.90				Average	
		point105	105	5,762,460.0	2,284,923.5	117.90				Average	
		point104	104	5,762,514.5	2,285,015.5	117.70				Average	
		point103	103	5,762,558.0	2,285,095.8	117.80				Average	
		point102	102	5,762,604.0	2,285,176.5	117.80				Average	
		point101	101	5,762,651.0	2,285,258.8	117.50				Average	
		point100	100	5,762,701.5	2,285,337.8	117.00				Average	
		point99	99	5,762,762.0	2,285,431.5	117.70				Average	
		point98	98	5,762,806.0	2,285,508.0	117.20				Average	
		point97	97	5,762,851.0	2,285,596.5	117.30				Average	
		point96	96	5,762,903.5	2,285,695.0	118.10				Average	
		point95	95	5,762,965.0	2,285,810.2	117.70				Average	

		point94	94	5,763,029.5	2,285,932.2	117.80				Average	
		point93	93	5,763,084.0	2,286,038.2	117.80				Average	
		point92	92	5,763,139.0	2,286,119.5	117.80					
Higuera SB	24.0	point119	119	5,763,111.5	2,286,133.5	117.80				Average	
		point120	120	5,763,057.0	2,286,052.2	117.80				Average	
		point121	121	5,763,002.0	2,285,946.2	117.80				Average	
		point122	122	5,762,937.5	2,285,824.2	117.70				Average	
		point123	123	5,762,876.0	2,285,709.0	118.10				Average	
		point124	124	5,762,824.0	2,285,610.5	117.30				Average	
		point125	125	5,762,778.5	2,285,521.8	117.20				Average	
		point126	126	5,762,736.5	2,285,445.5	117.70				Average	
		point127	127	5,762,681.0	2,285,347.5	117.00				Average	
		point128	128	5,762,634.5	2,285,270.5	117.50				Average	
		point129	129	5,762,583.5	2,285,186.0	117.80				Average	
		point130	130	5,762,537.5	2,285,105.5	117.80				Average	
		point131	131	5,762,494.0	2,285,025.2	117.70				Average	
		point132	132	5,762,438.0	2,284,936.5	117.90				Average	
		point133	133	5,762,394.0	2,284,856.2	118.00				Average	
		point134	134	5,762,343.5	2,284,766.5	118.30				Average	
		point135	135	5,762,291.5	2,284,671.2	118.80				Average	
		point136	136	5,762,245.5	2,284,589.5	119.40				Average	
		point137	137	5,762,194.0	2,284,498.0	119.10				Average	
		point138	138	5,762,146.0	2,284,418.5	118.90				Average	
		point139	139	5,762,094.5	2,284,328.5	118.90				Average	
		point140	140	5,762,045.5	2,284,246.2	118.90				Average	
		point141	141	5,761,991.0	2,284,153.2	118.90				Average	
		point142	142	5,761,941.5	2,284,067.0	118.90				Average	
		point143	143	5,761,895.0	2,283,987.0	118.90				Average	
		point144	144	5,761,850.0	2,283,912.8	118.90				Average	
		point145	145	5,761,795.5	2,283,820.8	118.90				Average	
		point146	146	5,761,744.0	2,283,732.0	118.90					
US 101 NB 1	24.0	point238	238	5,760,404.5	2,283,771.2	115.00				Average	
		point159	159	5,760,418.5	2,283,950.0	109.70				Average	
		point158	158	5,760,430.0	2,284,090.5	108.50				Average	
		point157	157	5,760,435.5	2,284,276.0	107.30				Average	
		point156	156	5,760,447.0	2,284,457.2	105.00				Average	
		point155	155	5,760,455.0	2,284,641.2	103.60				Average	
		point154	154	5,760,463.5	2,284,804.5	102.00				Average	
		point153	153	5,760,484.0	2,285,000.2	101.10				Average	

		point152	152	5,760,519.0	2,285,172.5	101.40				Average	
		point151	151	5,760,570.5	2,285,349.0	102.20				Average	
		point150	150	5,760,639.0	2,285,520.5	105.00				Average	
		point149	149	5,760,720.0	2,285,681.8	106.80				Average	
		point148	148	5,760,805.0	2,285,843.5	105.00					
US 101 NB 2	24.0	point171	171	5,760,932.0	2,286,087.2	107.30				Average	
		point170	170	5,761,038.0	2,286,285.0	109.20				Average	
		point169	169	5,761,190.0	2,286,574.5	111.50				Average	
		point168	168	5,761,326.5	2,286,835.5	115.00				Average	
		point167	167	5,761,464.5	2,287,095.2	117.00				Average	
		point166	166	5,761,595.5	2,287,348.2	119.00				Average	
		point165	165	5,761,755.0	2,287,647.8	120.70				Average	
		point164	164	5,761,919.5	2,287,958.8	123.70				Average	
		point163	163	5,762,079.5	2,288,267.8	125.00				Average	
		point162	162	5,762,225.0	2,288,539.8	125.00				Average	
		point161	161	5,762,358.5	2,288,794.5	128.50				Average	
		point160	160	5,762,500.0	2,289,064.8	130.00					
US 101 SB 1	24.0	point173	173	5,760,788.0	2,285,947.2	106.70				Average	
		point174	174	5,760,664.5	2,285,712.0	106.80				Average	
		point175	175	5,760,583.5	2,285,550.8	106.70				Average	
		point176	176	5,760,505.0	2,285,367.5	105.30				Average	
		point177	177	5,760,449.0	2,285,185.8	104.10				Average	
		point178	178	5,760,412.5	2,285,010.0	103.60				Average	
		point179	179	5,760,394.5	2,284,810.5	103.50				Average	
		point180	180	5,760,386.5	2,284,647.5	103.60				Average	
		point181	181	5,760,378.0	2,284,463.2	105.10				Average	
		point182	182	5,760,364.5	2,284,280.8	106.70				Average	
		point183	183	5,760,358.5	2,284,095.2	108.50				Average	
		point184	184	5,760,347.5	2,283,952.2	109.60				Average	
		point237	237	5,760,335.5	2,283,772.5	109.70					
US 101 SB 2	24.0	point186	186	5,762,449.5	2,289,092.5	130.00				Average	
		point187	187	5,762,303.0	2,288,824.8	128.50				Average	
		point188	188	5,762,169.5	2,288,570.0	125.00				Average	
		point189	189	5,762,024.0	2,288,297.8	125.00				Average	
		point190	190	5,761,864.0	2,287,989.0	123.60				Average	
		point191	191	5,761,699.5	2,287,678.0	120.70				Average	
		point192	192	5,761,540.0	2,287,378.5	119.50				Average	
		point193	193	5,761,409.0	2,287,125.2	117.00				Average	
		point194	194	5,761,271.0	2,286,865.8	115.00				Average	

		point195	195	5,761,134.5	2,286,604.5	111.50				Average	
		point196	196	5,760,982.5	2,286,315.2	109.20				Average	
		point197	197	5,760,905.5	2,286,168.0	108.40					
US 101 NB Loop On Ramp	12.0	point211	211	5,761,023.0	2,285,574.0	120.00				Average	
		point210	210	5,760,974.5	2,285,520.0	120.00				Average	
		point209	209	5,760,919.0	2,285,462.5	120.00				Average	
		point208	208	5,760,867.0	2,285,412.0	115.00				Average	
		point207	207	5,760,806.5	2,285,386.2	112.50				Average	
		point206	206	5,760,747.5	2,285,401.2	110.00				Average	
		point205	205	5,760,710.0	2,285,433.0	105.00				Average	
		point204	204	5,760,689.5	2,285,481.2	104.50				Average	
		point203	203	5,760,690.0	2,285,526.8	103.40				Average	
		point202	202	5,760,709.0	2,285,581.2	103.40				Average	
		point201	201	5,760,734.5	2,285,636.5	102.50				Average	
		point200	200	5,760,765.5	2,285,699.2	104.50				Average	
		point199	199	5,760,792.0	2,285,754.2	104.80				Average	
		point198	198	5,760,821.0	2,285,810.2	105.30					
US 101 NB Off Ramp	12.0	point230	230	5,760,472.0	2,284,343.0	104.90				Average	
		point229	229	5,760,484.0	2,284,447.0	104.60				Average	
		point228	228	5,760,493.5	2,284,533.2	101.70				Average	
		point227	227	5,760,509.0	2,284,638.0	102.00				Average	
		point226	226	5,760,521.0	2,284,744.2	101.70				Average	
		point225	225	5,760,535.5	2,284,843.2	102.40				Average	
		point224	224	5,760,566.5	2,284,935.0	103.30				Average	
		point223	223	5,760,604.5	2,285,031.0	104.90				Average	
		point222	222	5,760,660.0	2,285,128.0	104.90				Average	
		point221	221	5,760,726.5	2,285,214.0	105.30				Average	
		point217	217	5,760,792.0	2,285,283.2	109.90				Average	
		point216	216	5,760,859.5	2,285,351.2	111.50				Average	
		point215	215	5,760,928.5	2,285,418.5	114.80				Average	
		point214	214	5,760,995.5	2,285,495.2	119.70				Average	
		point213	213	5,761,047.0	2,285,546.5	119.70					
US 101 SB Off Ramp	12.0	point236	236	5,761,216.5	2,286,829.5	112.50				Average	
		point235	235	5,761,124.0	2,286,701.8	108.90				Average	
		point234	234	5,761,039.0	2,286,635.8	108.90				Average	
		point233	233	5,760,921.5	2,286,580.5	108.60				Average	
		point232	232	5,760,801.5	2,286,530.5	109.90					
Los Osos Valley WB 1	12.0	point251	251	5,762,472.0	2,285,071.2	117.20				Average	
		point250	250	5,762,374.0	2,285,132.8	113.70				Average	

		point249	249	5,762,249.0	2,285,169.5	111.90				Average	
		point248	248	5,762,114.5	2,285,187.5	111.10				Average	
		point247	247	5,761,916.5	2,285,208.5	110.10				Average	
		point246	246	5,761,785.0	2,285,218.0	109.40				Average	
		point245	245	5,761,593.0	2,285,242.5	109.90				Average	
		point244	244	5,761,529.5	2,285,261.2	109.90				Average	
		point243	243	5,761,408.0	2,285,305.0	113.20				Average	
		point242	242	5,761,298.0	2,285,372.8	114.80				Average	
		point241	241	5,761,247.0	2,285,412.8	114.80				Average	
		point240	240	5,761,159.5	2,285,508.5	118.10				Average	
		point239	239	5,761,121.0	2,285,562.0	119.70					
Los Osos Valley WB 2	12.0	point325	325	5,761,121.0	2,285,562.0	119.70				Average	
		point324	324	5,761,055.0	2,285,669.0	121.40				Average	
		point260	260	5,761,012.0	2,285,791.8	123.00				Average	
		point259	259	5,760,970.0	2,285,917.5	126.30				Average	
		point258	258	5,760,926.5	2,286,041.5	126.30				Average	
		point257	257	5,760,885.0	2,286,166.0	126.30				Average	
		point256	256	5,760,843.5	2,286,292.5	124.70				Average	
		point255	255	5,760,801.5	2,286,417.2	116.50				Average	
		point254	254	5,760,758.0	2,286,542.5	111.50				Average	
		point253	253	5,760,737.5	2,286,603.5	111.50				Average	
		point252	252	5,760,689.5	2,286,731.0	108.60					
Los Osos Valley WB 3	24.0	point280	280	5,760,689.5	2,286,731.0	108.60				Average	
		point279	279	5,760,621.0	2,286,915.8	109.30				Average	
		point278	278	5,760,593.0	2,286,976.0	109.90				Average	
		point277	277	5,760,543.0	2,287,099.0	111.50				Average	
		point276	276	5,760,490.0	2,287,215.8	113.20				Average	
		point275	275	5,760,438.0	2,287,327.8	113.20				Average	
		point274	274	5,760,382.0	2,287,434.2	113.30				Average	
		point273	273	5,760,322.5	2,287,542.0	113.40				Average	
		point272	272	5,760,257.5	2,287,653.0	115.30				Average	
		point271	271	5,760,184.0	2,287,769.8	114.90				Average	
		point270	270	5,760,113.0	2,287,880.5	115.40				Average	
		point269	269	5,760,053.0	2,287,974.5	116.90				Average	
		point268	268	5,759,983.0	2,288,075.5	117.60				Average	
		point267	267	5,759,919.0	2,288,176.8	117.20				Average	
		point266	266	5,759,851.5	2,288,275.5	117.20				Average	
		point265	265	5,759,788.0	2,288,375.5	117.20				Average	
		point264	264	5,759,731.5	2,288,459.8	117.20				Average	

		point263	263	5,759,673.5	2,288,547.8	117.20					
Los Osos Valley EB 1	12.0	point294	294	5,761,092.5	2,285,534.5	119.70				Average	
		point293	293	5,761,131.0	2,285,482.5	118.10				Average	
		point292	292	5,761,228.5	2,285,384.0	114.80				Average	
		point291	291	5,761,278.0	2,285,341.2	113.20				Average	
		point290	290	5,761,391.5	2,285,271.0	111.40				Average	
		point289	289	5,761,517.5	2,285,221.2	109.90				Average	
		point288	288	5,761,587.0	2,285,206.2	109.90				Average	
		point287	287	5,761,781.5	2,285,179.8	109.40				Average	
		point286	286	5,761,915.0	2,285,167.5	110.10				Average	
		point285	285	5,762,111.5	2,285,151.0	111.30				Average	
		point284	284	5,762,238.5	2,285,134.5	111.90				Average	
		point283	283	5,762,361.0	2,285,100.5	113.70				Average	
		point282	282	5,762,461.5	2,285,038.5	117.20					
Los Osos Valley EB 2	12.0	point301	301	5,760,656.5	2,286,716.8	108.60				Average	
		point300	300	5,760,701.0	2,286,593.8	111.50				Average	
		point299	299	5,760,721.0	2,286,530.5	111.50				Average	
		point298	298	5,760,764.5	2,286,406.5	116.50				Average	
		point297	297	5,760,808.0	2,286,282.2	124.70				Average	
		point296	296	5,760,849.0	2,286,155.2	126.30				Average	
		point295	295	5,760,890.5	2,286,030.8	126.30				Average	
		point326	326	5,760,934.5	2,285,907.0	126.30				Average	
		point327	327	5,760,976.5	2,285,780.2	123.00				Average	
		point328	328	5,761,022.0	2,285,655.0	121.40				Average	
		point329	329	5,761,092.5	2,285,534.5	119.70					
Los Osos Valley EB 3	24.0	point305	305	5,759,629.0	2,288,521.2	117.20				Average	
		point306	306	5,759,687.0	2,288,433.5	117.20				Average	
		point307	307	5,759,743.5	2,288,349.0	117.20				Average	
		point308	308	5,759,811.5	2,288,251.2	117.20				Average	
		point309	309	5,759,882.5	2,288,152.5	117.20				Average	
		point310	310	5,759,951.0	2,288,051.2	117.60				Average	
		point311	311	5,760,023.0	2,287,950.2	116.90				Average	
		point312	312	5,760,082.5	2,287,862.5	115.40				Average	
		point313	313	5,760,153.5	2,287,751.8	114.90				Average	
		point314	314	5,760,227.0	2,287,635.0	115.30				Average	
		point315	315	5,760,289.5	2,287,525.5	113.40				Average	
		point316	316	5,760,351.0	2,287,418.2	113.30				Average	
		point317	317	5,760,405.0	2,287,311.2	113.20				Average	
		point318	318	5,760,457.0	2,287,203.5	113.20				Average	

		point319	319	5,760,515.0	2,287,087.0	111.50				Average	
		point320	320	5,760,563.5	2,286,965.2	109.90				Average	
		point321	321	5,760,592.5	2,286,903.8	109.30				Average	
		point322	322	5,760,656.5	2,286,716.8	108.60					
Calle Joaquin WB	12.0	point344	344	5,760,434.0	2,285,398.0	100.70				Average	
		point345	345	5,760,443.0	2,285,474.0	100.70				Average	
		point346	346	5,760,421.0	2,285,550.0	103.00				Average	
		point347	347	5,760,371.0	2,285,613.8	106.60				Average	
		point348	348	5,760,300.5	2,285,653.5	106.60				Average	
		point349	349	5,760,225.0	2,285,688.5	106.60				Average	
		point350	350	5,760,174.0	2,285,727.5	106.60				Average	
		point351	351	5,760,142.5	2,285,771.5	106.60				Average	
		point352	352	5,760,125.0	2,285,830.2	106.60				Average	
		point353	353	5,760,124.0	2,285,884.2	106.60				Average	
		point354	354	5,760,142.0	2,285,945.0	106.60				Average	
		point355	355	5,760,173.5	2,286,019.0	106.60				Average	
		point356	356	5,760,201.0	2,286,081.2	106.60				Average	
		point357	357	5,760,235.0	2,286,158.8	106.60				Average	
		point358	358	5,760,264.5	2,286,231.5	106.60				Average	
		point359	359	5,760,296.0	2,286,306.0	106.60				Average	
		point360	360	5,760,332.0	2,286,396.0	106.60				Average	
		point361	361	5,760,370.0	2,286,471.8	106.60				Average	
		point362	362	5,760,400.0	2,286,540.5	106.60				Average	
		point363	363	5,760,436.0	2,286,616.0	106.60				Average	
		point364	364	5,760,473.0	2,286,674.5	108.50				Average	
		point365	365	5,760,525.0	2,286,725.8	108.70				Average	
		point366	366	5,760,587.0	2,286,756.8	108.70					
Calle Joaquin EB	12.0	point389	389	5,760,571.5	2,286,798.0	108.70				Average	
		point388	388	5,760,504.0	2,286,752.2	108.70				Average	
		point387	387	5,760,449.0	2,286,699.2	108.50				Average	
		point386	386	5,760,405.0	2,286,630.5	106.60				Average	
		point385	385	5,760,373.0	2,286,553.2	106.60				Average	
		point384	384	5,760,346.0	2,286,482.8	106.60				Average	
		point383	383	5,760,315.0	2,286,402.2	106.60				Average	
		point382	382	5,760,279.0	2,286,312.5	106.60				Average	
		point381	381	5,760,248.0	2,286,238.5	106.60				Average	
		point380	380	5,760,218.5	2,286,165.5	106.60				Average	
		point379	379	5,760,187.5	2,286,086.5	106.60				Average	
		point378	378	5,760,162.5	2,286,023.0	106.60				Average	

		point377	377	5,760,131.0	2,285,949.0	106.60				Average	
		point376	376	5,760,112.5	2,285,886.8	106.60				Average	
		point375	375	5,760,112.0	2,285,829.0	106.60				Average	
		point374	374	5,760,132.0	2,285,766.5	106.60				Average	
		point373	373	5,760,165.0	2,285,719.8	106.60				Average	
		point372	372	5,760,218.5	2,285,678.8	106.60				Average	
		point371	371	5,760,294.0	2,285,643.5	106.60				Average	
		point370	370	5,760,365.0	2,285,603.8	106.60				Average	
		point369	369	5,760,412.0	2,285,545.5	103.00				Average	
		point368	368	5,760,430.5	2,285,473.5	100.70				Average	
		point367	367	5,760,422.0	2,285,400.0	100.70					

LSA Associates, Inc. 9 October 2006
Jason Lui TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Alternative 3 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
Higuera NB	point147	147	1909	40	94	40	63	35	0	0	0	0
	point118	118	1909	40	94	40	63	35	0	0	0	0
	point117	117	1909	40	94	40	63	35	0	0	0	0
	point116	116	1909	40	94	40	63	35	0	0	0	0
	point115	115	1909	40	94	40	63	35	0	0	0	0
	point114	114	1909	40	94	40	63	35	0	0	0	0
	point113	113	1909	40	94	40	63	35	0	0	0	0
	point112	112	1909	40	94	40	63	35	0	0	0	0
	point111	111	1909	40	94	40	63	35	0	0	0	0
	point110	110	1909	40	94	40	63	35	0	0	0	0
	point109	109	1909	40	94	40	63	35	0	0	0	0
	point108	108	1909	40	94	40	63	35	0	0	0	0
	point107	107	1909	40	94	40	63	35	0	0	0	0
	point106	106	1909	40	94	40	63	35	0	0	0	0
	point105	105	1909	40	94	40	63	35	0	0	0	0
	point104	104	1909	40	94	40	63	35	0	0	0	0
	point103	103	1909	40	94	40	63	35	0	0	0	0
	point102	102	1909	40	94	40	63	35	0	0	0	0
	point101	101	1909	40	94	40	63	35	0	0	0	0
	point100	100	1909	40	94	40	63	35	0	0	0	0
	point99	99	1909	40	94	40	63	35	0	0	0	0
	point98	98	1909	40	94	40	63	35	0	0	0	0
	point97	97	1909	40	94	40	63	35	0	0	0	0

	point96	96	1909	40	94	40	63	35	0	0	0	0
	point95	95	1909	40	94	40	63	35	0	0	0	0
	point94	94	1909	40	94	40	63	35	0	0	0	0
	point93	93	1909	40	94	40	63	35	0	0	0	0
	point92	92										
Higuera SB	point119	119	1909	40	94	40	63	35	0	0	0	0
	point120	120	1909	40	94	40	63	35	0	0	0	0
	point121	121	1909	40	94	40	63	35	0	0	0	0
	point122	122	1909	40	94	40	63	35	0	0	0	0
	point123	123	1909	40	94	40	63	35	0	0	0	0
	point124	124	1909	40	94	40	63	35	0	0	0	0
	point125	125	1909	40	94	40	63	35	0	0	0	0
	point126	126	1909	40	94	40	63	35	0	0	0	0
	point127	127	1909	40	94	40	63	35	0	0	0	0
	point128	128	1909	40	94	40	63	35	0	0	0	0
	point129	129	1909	40	94	40	63	35	0	0	0	0
	point130	130	1909	40	94	40	63	35	0	0	0	0
	point131	131	1909	40	94	40	63	35	0	0	0	0
	point132	132	1909	40	94	40	63	35	0	0	0	0
	point133	133	1909	40	94	40	63	35	0	0	0	0
	point134	134	1909	40	94	40	63	35	0	0	0	0
	point135	135	1909	40	94	40	63	35	0	0	0	0
	point136	136	1909	40	94	40	63	35	0	0	0	0
	point137	137	1909	40	94	40	63	35	0	0	0	0
	point138	138	1909	40	94	40	63	35	0	0	0	0
	point139	139	1909	40	94	40	63	35	0	0	0	0
	point140	140	1909	40	94	40	63	35	0	0	0	0
	point141	141	1909	40	94	40	63	35	0	0	0	0
	point142	142	1909	40	94	40	63	35	0	0	0	0
	point143	143	1909	40	94	40	63	35	0	0	0	0
	point144	144	1909	40	94	40	63	35	0	0	0	0
	point145	145	1909	40	94	40	63	35	0	0	0	0
	point146	146										
US 101 NB 1	point238	238	3624	65	141	65	135	60	0	0	0	0
	point159	159	3624	65	141	65	135	60	0	0	0	0

	point158	158	3624	65	141	65	135	60	0	0	0	0
	point157	157	3624	65	141	65	135	60	0	0	0	0
	point156	156	3624	65	141	65	135	60	0	0	0	0
	point155	155	3624	65	141	65	135	60	0	0	0	0
	point154	154	3624	65	141	65	135	60	0	0	0	0
	point153	153	3624	65	141	65	135	60	0	0	0	0
	point152	152	3624	65	141	65	135	60	0	0	0	0
	point151	151	3624	65	141	65	135	60	0	0	0	0
	point150	150	3624	65	141	65	135	60	0	0	0	0
	point149	149	3624	65	141	65	135	60	0	0	0	0
	point148	148										
US 101 NB 2	point171	171	3624	65	141	65	135	60	0	0	0	0
	point170	170	3624	65	141	65	135	60	0	0	0	0
	point169	169	3624	65	141	65	135	60	0	0	0	0
	point168	168	3624	65	141	65	135	60	0	0	0	0
	point167	167	3624	65	141	65	135	60	0	0	0	0
	point166	166	3624	65	141	65	135	60	0	0	0	0
	point165	165	3624	65	141	65	135	60	0	0	0	0
	point164	164	3624	65	141	65	135	60	0	0	0	0
	point163	163	3624	65	141	65	135	60	0	0	0	0
	point162	162	3624	65	141	65	135	60	0	0	0	0
	point161	161	3624	65	141	65	135	60	0	0	0	0
	point160	160										
US 101 SB 1	point173	173	3624	65	141	65	135	60	0	0	0	0
	point174	174	3624	65	141	65	135	60	0	0	0	0
	point175	175	3624	65	141	65	135	60	0	0	0	0
	point176	176	3624	65	141	65	135	60	0	0	0	0
	point177	177	3624	65	141	65	135	60	0	0	0	0
	point178	178	3624	65	141	65	135	60	0	0	0	0
	point179	179	3624	65	141	65	135	60	0	0	0	0
	point180	180	3624	65	141	65	135	60	0	0	0	0
	point181	181	3624	65	141	65	135	60	0	0	0	0
	point182	182	3624	65	141	65	135	60	0	0	0	0
	point183	183	3624	65	141	65	135	60	0	0	0	0
	point184	184	3624	65	141	65	135	60	0	0	0	0

	point237	237										
US 101 SB 2	point186	186	3624	65	141	65	135	60	0	0	0	0
	point187	187	3624	65	141	65	135	60	0	0	0	0
	point188	188	3624	65	141	65	135	60	0	0	0	0
	point189	189	3624	65	141	65	135	60	0	0	0	0
	point190	190	3624	65	141	65	135	60	0	0	0	0
	point191	191	3624	65	141	65	135	60	0	0	0	0
	point192	192	3624	65	141	65	135	60	0	0	0	0
	point193	193	3624	65	141	65	135	60	0	0	0	0
	point194	194	3624	65	141	65	135	60	0	0	0	0
	point195	195	3624	65	141	65	135	60	0	0	0	0
	point196	196	3624	65	141	65	135	60	0	0	0	0
	point197	197										
US 101 NB Loop On Ramp	point211	211	641	45	25	45	24	40	0	0	0	0
	point210	210	641	45	25	45	24	40	0	0	0	0
	point209	209	641	45	25	45	24	40	0	0	0	0
	point208	208	641	45	25	45	24	40	0	0	0	0
	point207	207	641	45	25	45	24	40	0	0	0	0
	point206	206	641	45	25	45	24	40	0	0	0	0
	point205	205	641	45	25	45	24	40	0	0	0	0
	point204	204	641	45	25	45	24	40	0	0	0	0
	point203	203	641	45	25	45	24	40	0	0	0	0
	point202	202	641	45	25	45	24	40	0	0	0	0
	point201	201	641	45	25	45	24	40	0	0	0	0
	point200	200	641	45	25	45	24	40	0	0	0	0
	point199	199	641	45	25	45	24	40	0	0	0	0
	point198	198										
US 101 NB Off Ramp	point230	230	525	45	20	45	20	40	0	0	0	0
	point229	229	525	45	20	45	20	40	0	0	0	0
	point228	228	525	45	20	45	20	40	0	0	0	0
	point227	227	525	45	20	45	20	40	0	0	0	0
	point226	226	525	45	20	45	20	40	0	0	0	0
	point225	225	525	45	20	45	20	40	0	0	0	0
	point224	224	525	45	20	45	20	40	0	0	0	0
	point223	223	525	45	20	45	20	40	0	0	0	0

	point222	222	525	45	20	45	20	40	0	0	0	0
	point221	221	525	45	20	45	20	40	0	0	0	0
	point217	217	525	45	20	45	20	40	0	0	0	0
	point216	216	525	45	20	45	20	40	0	0	0	0
	point215	215	525	45	20	45	20	40	0	0	0	0
	point214	214	525	45	20	45	20	40	0	0	0	0
	point213	213										
US 101 SB Off Ramp	point236	236	660	45	26	45	25	40	0	0	0	0
	point235	235	660	45	26	45	25	40	0	0	0	0
	point234	234	660	45	26	45	25	40	0	0	0	0
	point233	233	660	45	26	45	25	40	0	0	0	0
	point232	232										
Los Osos Valley WB 1	point251	251	1509	40	52	40	24	35	0	0	0	0
	point250	250	1509	40	52	40	24	35	0	0	0	0
	point249	249	1509	40	52	40	24	35	0	0	0	0
	point248	248	1509	40	52	40	24	35	0	0	0	0
	point247	247	1509	40	52	40	24	35	0	0	0	0
	point246	246	1509	40	52	40	24	35	0	0	0	0
	point245	245	1509	40	52	40	24	35	0	0	0	0
	point244	244	1509	40	52	40	24	35	0	0	0	0
	point243	243	1509	40	52	40	24	35	0	0	0	0
	point242	242	1509	40	52	40	24	35	0	0	0	0
	point241	241	1509	40	52	40	24	35	0	0	0	0
	point240	240	1509	40	52	40	24	35	0	0	0	0
	point239	239										
Los Osos Valley WB 2	point325	325	1635	40	57	40	26	35	0	0	0	0
	point324	324	1635	40	57	40	26	35	0	0	0	0
	point260	260	1635	40	57	40	26	35	0	0	0	0
	point259	259	1635	40	57	40	26	35	0	0	0	0
	point258	258	1635	40	57	40	26	35	0	0	0	0
	point257	257	1635	40	57	40	26	35	0	0	0	0
	point256	256	1635	40	57	40	26	35	0	0	0	0
	point255	255	1635	40	57	40	26	35	0	0	0	0
	point254	254	1635	40	57	40	26	35	0	0	0	0
	point253	253	1635	40	57	40	26	35	0	0	0	0

	point252	252										
Los Osos Valley WB 3	point280	280	1747	40	57	40	26	35	0	0	0	0
	point279	279	1747	40	57	40	26	35	0	0	0	0
	point278	278	1747	40	57	40	26	35	0	0	0	0
	point277	277	1747	40	57	40	26	35	0	0	0	0
	point276	276	1747	40	57	40	26	35	0	0	0	0
	point275	275	1747	40	57	40	26	35	0	0	0	0
	point274	274	1747	40	57	40	26	35	0	0	0	0
	point273	273	1747	40	57	40	26	35	0	0	0	0
	point272	272	1747	40	57	40	26	35	0	0	0	0
	point271	271	1747	40	57	40	26	35	0	0	0	0
	point270	270	1747	40	57	40	26	35	0	0	0	0
	point269	269	1747	40	57	40	26	35	0	0	0	0
	point268	268	1747	40	57	40	26	35	0	0	0	0
	point267	267	1747	40	57	40	26	35	0	0	0	0
	point266	266	1747	40	57	40	26	35	0	0	0	0
	point265	265	1747	40	57	40	26	35	0	0	0	0
	point264	264	1747	40	57	40	26	35	0	0	0	0
	point263	263										
Los Osos Valley EB 1	point294	294	1509	40	52	40	24	35	0	0	0	0
	point293	293	1509	40	52	40	24	35	0	0	0	0
	point292	292	1509	40	52	40	24	35	0	0	0	0
	point291	291	1509	40	52	40	24	35	0	0	0	0
	point290	290	1509	40	52	40	24	35	0	0	0	0
	point289	289	1509	40	52	40	24	35	0	0	0	0
	point288	288	1509	40	52	40	24	35	0	0	0	0
	point287	287	1509	40	52	40	24	35	0	0	0	0
	point286	286	1509	40	52	40	24	35	0	0	0	0
	point285	285	1509	40	52	40	24	35	0	0	0	0
	point284	284	1509	40	52	40	24	35	0	0	0	0
	point283	283	1509	40	52	40	24	35	0	0	0	0
	point282	282										
Los Osos Valley EB 2	point301	301	1635	40	57	40	26	35	0	0	0	0
	point300	300	1635	40	57	40	26	35	0	0	0	0
	point299	299	1635	40	57	40	26	35	0	0	0	0

	point298	298	1635	40	57	40	26	35	0	0	0	0
	point297	297	1635	40	57	40	26	35	0	0	0	0
	point296	296	1635	40	57	40	26	35	0	0	0	0
	point295	295	1635	40	57	40	26	35	0	0	0	0
	point326	326	1635	40	57	40	26	35	0	0	0	0
	point327	327	1635	40	57	40	26	35	0	0	0	0
	point328	328	1635	40	57	40	26	35	0	0	0	0
	point329	329										
Los Osos Valley EB 3	point305	305	1747	40	61	40	28	35	0	0	0	0
	point306	306	1747	40	61	40	28	35	0	0	0	0
	point307	307	1747	40	61	40	28	35	0	0	0	0
	point308	308	1747	40	61	40	28	35	0	0	0	0
	point309	309	1747	40	61	40	28	35	0	0	0	0
	point310	310	1747	40	61	40	28	35	0	0	0	0
	point311	311	1747	40	61	40	28	35	0	0	0	0
	point312	312	1747	40	61	40	28	35	0	0	0	0
	point313	313	1747	40	61	40	28	35	0	0	0	0
	point314	314	1747	40	61	40	28	35	0	0	0	0
	point315	315	1747	40	61	40	28	35	0	0	0	0
	point316	316	1747	40	61	40	28	35	0	0	0	0
	point317	317	1747	40	61	40	28	35	0	0	0	0
	point318	318	1747	40	61	40	28	35	0	0	0	0
	point319	319	1747	40	61	40	28	35	0	0	0	0
	point320	320	1747	40	61	40	28	35	0	0	0	0
	point321	321	1747	40	61	40	28	35	0	0	0	0
	point322	322										
Calle Joaquin WB	point344	344	65	35	3	35	2	30	0	0	0	0
	point345	345	65	35	3	35	2	30	0	0	0	0
	point346	346	65	35	3	35	2	30	0	0	0	0
	point347	347	65	35	3	35	2	30	0	0	0	0
	point348	348	65	35	3	35	2	30	0	0	0	0
	point349	349	65	35	3	35	2	30	0	0	0	0
	point350	350	65	35	3	35	2	30	0	0	0	0
	point351	351	65	35	3	35	2	30	0	0	0	0
	point352	352	65	35	3	35	2	30	0	0	0	0

	point353	353	65	35	3	35	2	30	0	0	0	0
	point354	354	65	35	3	35	2	30	0	0	0	0
	point355	355	65	35	3	35	2	30	0	0	0	0
	point356	356	65	35	3	35	2	30	0	0	0	0
	point357	357	65	35	3	35	2	30	0	0	0	0
	point358	358	65	35	3	35	2	30	0	0	0	0
	point359	359	65	35	3	35	2	30	0	0	0	0
	point360	360	65	35	3	35	2	30	0	0	0	0
	point361	361	65	35	3	35	2	30	0	0	0	0
	point362	362	65	35	3	35	2	30	0	0	0	0
	point363	363	65	35	3	35	2	30	0	0	0	0
	point364	364	65	35	3	35	2	30	0	0	0	0
	point365	365	65	35	3	35	2	30	0	0	0	0
	point366	366										
Calle Joaquin EB	point389	389	65	35	3	35	2	30	0	0	0	0
	point388	388	65	35	3	35	2	30	0	0	0	0
	point387	387	65	35	3	35	2	30	0	0	0	0
	point386	386	65	35	3	35	2	30	0	0	0	0
	point385	385	65	35	3	35	2	30	0	0	0	0
	point384	384	65	35	3	35	2	30	0	0	0	0
	point383	383	65	35	3	35	2	30	0	0	0	0
	point382	382	65	35	3	35	2	30	0	0	0	0
	point381	381	65	35	3	35	2	30	0	0	0	0
	point380	380	65	35	3	35	2	30	0	0	0	0
	point379	379	65	35	3	35	2	30	0	0	0	0
	point378	378	65	35	3	35	2	30	0	0	0	0
	point377	377	65	35	3	35	2	30	0	0	0	0
	point376	376	65	35	3	35	2	30	0	0	0	0
	point375	375	65	35	3	35	2	30	0	0	0	0
	point374	374	65	35	3	35	2	30	0	0	0	0
	point373	373	65	35	3	35	2	30	0	0	0	0
	point372	372	65	35	3	35	2	30	0	0	0	0
	point371	371	65	35	3	35	2	30	0	0	0	0
	point370	370	65	35	3	35	2	30	0	0	0	0
	point369	369	65	35	3	35	2	30	0	0	0	0

	point368	368	65	35	3	35	2	30	0	0	0	0
	point367	367										

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TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Alternative 3 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-1	1	1	5,760,196.0	2,287,871.8	115.40	4.92	0.00	66	12.0	8.0	
R-2	2	1	5,760,409.5	2,287,532.8	113.40	4.92	0.00	66	12.0	8.0	
R-3	3	1	5,760,479.0	2,287,354.5	111.40	4.92	0.00	66	12.0	8.0	
R-4	4	1	5,760,585.5	2,287,158.8	109.60	4.92	0.00	66	12.0	8.0	
R-5	5	1	5,760,689.0	2,286,975.8	108.90	4.92	0.00	66	12.0	8.0	
R-6	6	1	5,760,773.5	2,286,683.8	108.10	4.92	0.00	66	12.0	8.0	
R-7	7	1	5,761,625.0	2,285,742.5	111.40	4.92	0.00	66	12.0	8.0	
R-8	8	1	5,761,715.5	2,285,903.0	111.40	4.92	0.00	66	12.0	8.0	
R-9	9	1	5,761,926.5	2,285,983.5	111.40	4.92	0.00	66	12.0	8.0	
R-10	10	1	5,761,821.5	2,286,087.0	111.40	4.92	0.00	66	12.0	8.0	
R-11	11	1	5,761,977.0	2,286,242.5	111.40	4.92	0.00	66	12.0	8.0	
R-12	12	1	5,762,050.0	2,286,315.0	111.40	4.92	0.00	66	12.0	8.0	
R-13	13	1	5,761,582.5	2,285,059.5	110.00	4.92	0.00	66	12.0	8.0	
R-14	14	1	5,761,627.5	2,285,058.5	110.00	4.92	0.00	66	12.0	8.0	
R-15	15	1	5,761,593.5	2,285,021.8	110.00	4.92	0.00	66	12.0	8.0	
R-16	16	1	5,762,173.5	2,285,044.5	120.00	4.92	0.00	66	12.0	8.0	
R-17	17	1	5,762,288.0	2,284,958.8	117.90	4.92	0.00	66	12.0	8.0	
R-18	18	1	5,761,669.0	2,285,092.0	108.60	4.92	0.00	66	12.0	8.0	
R-19	19	1	5,761,658.0	2,285,067.5	108.60	4.92	0.00	66	12.0	8.0	
R-20	20	1	5,761,854.0	2,285,084.8	110.00	4.92	0.00	66	12.0	8.0	
R-21	21	1	5,761,905.0	2,285,017.2	110.00	4.92	0.00	66	12.0	8.0	
R-22	22	1	5,762,099.5	2,284,985.8	120.00	4.92	0.00	66	12.0	8.0	

R-23	23	1	5,761,781.0	2,285,355.0	110.00	4.92	0.00	66	12.0	8.0	
R-24	24	1	5,761,912.0	2,285,355.8	110.00	4.92	0.00	66	12.0	8.0	
R-25	25	1	5,762,184.0	2,285,330.0	111.30	4.92	0.00	66	12.0	8.0	
R-26	26	1	5,762,230.0	2,285,316.2	111.50	4.92	0.00	66	12.0	8.0	
R-27	27	1	5,762,297.0	2,285,267.2	112.40	4.92	0.00	66	12.0	8.0	
R-28	28	1	5,762,431.0	2,285,255.0	114.70	4.92	0.00	66	12.0	8.0	
R-29	29	1	5,762,516.0	2,285,225.0	115.00	4.92	0.00	66	12.0	8.0	Y
R-30	30	1	5,761,852.5	2,285,383.2	110.00	4.92	0.00	66	12.0	8.0	
R-31	31	1	5,761,916.5	2,285,451.8	111.00	4.92	0.00	66	12.0	8.0	
R-32	32	1	5,762,042.5	2,285,375.5	110.00	4.92	0.00	66	12.0	8.0	
R-33	33	1	5,762,231.5	2,285,460.8	111.30	4.92	0.00	66	12.0	8.0	
R-34	34	1	5,762,284.0	2,285,370.8	111.50	4.92	0.00	66	12.0	8.0	
R-35	35	1	5,762,416.5	2,285,328.8	111.50	4.92	0.00	66	12.0	8.0	
R-36	36	1	5,762,499.5	2,285,314.8	114.70	4.92	0.00	66	12.0	8.0	
R-37	37	1	5,762,545.0	2,285,255.2	115.00	4.92	0.00	66	12.0	8.0	Y
R-38	39	1	5,760,381.0	2,285,923.8	110.00	4.92	0.00	66	12.0	8.0	Y

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TNM 2.5

INPUT: BARRIERS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Alternative 3 Conditions

Barrier									Points										
Name	Type	Height		If Wall	If Berm			Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment				
		Min	Max	$ per Unit Area	$ per Unit Vol.	Top Width	Run:Rise	$ per Unit Length			X	Y	Z	at Point	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				
Home 1	W	0.00	99.99	0.00				0.00	point5	5	5,761,502.0	2,285,073.5	110.00	15.00	0.00	0	0		
									point4	4	5,761,463.0	2,285,021.0	110.00	15.00	0.00	0	0		
									point3	3	5,761,487.0	2,284,998.0	110.00	15.00	0.00	0	0		
									point2	2	5,761,530.0	2,285,051.8	110.00	15.00	0.00	0	0		
									point1	1	5,761,502.0	2,285,073.5	110.00	15.00					
Home 2	W	0.00	99.99	0.00				0.00	point10	10	5,761,538.5	2,285,046.0	110.00	15.00	0.00	0	0		
									point9	9	5,761,503.5	2,285,001.0	110.00	15.00	0.00	0	0		
									point8	8	5,761,529.5	2,284,985.5	110.00	15.00	0.00	0	0		
									point7	7	5,761,561.0	2,285,028.0	110.00	15.00	0.00	0	0		
									point6	6	5,761,538.5	2,285,046.0	110.00	15.00					
Home 3	W	0.00	99.99	0.00				0.00	point15	15	5,761,570.5	2,285,017.8	110.00	15.00	0.00	0	0		
									point14	14	5,761,538.0	2,284,979.8	110.00	15.00	0.00	0	0		
									point13	13	5,761,569.0	2,284,958.5	110.00	15.00	0.00	0	0		
									point12	12	5,761,598.0	2,284,998.5	110.00	15.00	0.00	0	0		
									point11	11	5,761,570.5	2,285,017.8	110.00	15.00					
Home 4	W	0.00	99.99	0.00				0.00	point20	20	5,761,599.0	2,284,989.5	110.00	15.00	0.00	0	0		
									point19	19	5,761,568.5	2,284,949.5	110.00	15.00	0.00	0	0		
									point18	18	5,761,597.0	2,284,929.5	110.00	15.00	0.00	0	0		
									point17	17	5,761,626.5	2,284,970.8	110.00	15.00	0.00	0	0		
									point16	16	5,761,599.0	2,284,989.5	110.00	15.00					
Home 5	W	0.00	99.99	0.00				0.00	point25	25	5,761,666.5	2,285,130.5	110.00	15.00	0.00	0	0		
									point24	24	5,761,733.0	2,285,125.0	110.00	15.00	0.00	0	0		
									point23	23	5,761,732.5	2,285,086.0	110.00	15.00	0.00	0	0		
									point22	22	5,761,664.0	2,285,095.8	110.00	15.00	0.00	0	0		
									point21	21	5,761,666.5	2,285,130.5	110.00	15.00					
Home 6	W	0.00	99.99	0.00				0.00	point30	30	5,761,663.0	2,285,085.5	110.00	15.00	0.00	0	0		
									point29	29	5,761,729.5	2,285,079.2	110.00	15.00	0.00	0	0		
									point28	28	5,761,727.5	2,285,051.8	110.00	15.00	0.00	0	0		
									point27	27	5,761,661.0	2,285,056.8	110.00	15.00	0.00	0	0		
									point26	26	5,761,663.0	2,285,085.5	110.00	15.00					
Home 7	W	0.00	99.99	0.00				0.00	point35	35	5,761,797.5	2,285,116.5	110.00	15.00	0.00	0	0		
									point34	34	5,761,857.5	2,285,110.2	110.00	15.00	0.00	0	0		
									point33	33	5,761,856.0	2,285,089.0	110.00	15.00	0.00	0	0		
									point32	32	5,761,794.0	2,285,093.8	110.00	15.00	0.00	0	0		
									point31	31	5,761,797.5	2,285,116.5	110.00	15.00					

Home 8	W	0.00	99.99	0.00				0.00	point40	40	5,761,793.0	2,285,079.2	110.00	15.00	0.00	0	0		
									point39	39	5,761,860.0	2,285,073.8	110.00	15.00	0.00	0	0		
									point38	38	5,761,858.0	2,285,047.5	110.00	15.00	0.00	0	0		
									point37	37	5,761,790.0	2,285,052.0	110.00	15.00	0.00	0	0		
									point36	36	5,761,793.0	2,285,079.2	110.00	15.00					
Home 9	W	0.00	99.99	0.00				0.00	point45	45	5,761,886.0	2,285,087.0	110.00	15.00	0.00	0	0		
									point44	44	5,761,920.5	2,285,083.2	110.00	15.00	0.00	0	0		
									point43	43	5,761,917.5	2,285,035.0	110.00	15.00	0.00	0	0		
									point42	42	5,761,880.5	2,285,038.5	110.00	15.00	0.00	0	0		
									point41	41	5,761,886.0	2,285,087.0	110.00	15.00					
Home 10	W	0.00	99.99	0.00				0.00	point50	50	5,761,925.5	2,285,066.5	110.00	15.00	0.00	0	0		
									point49	49	5,761,922.5	2,285,025.0	110.00	15.00	0.00	0	0		
									point48	48	5,761,959.5	2,285,018.8	110.00	15.00	0.00	0	0		
									point47	47	5,761,963.5	2,285,060.2	110.00	15.00	0.00	0	0		
									point46	46	5,761,925.5	2,285,066.5	110.00	15.00					
Home 11	W	0.00	99.99	0.00				0.00	point57	57	5,762,115.5	2,285,030.2	120.00	15.00	0.00	0	0		
									point56	56	5,762,132.5	2,285,060.5	120.00	15.00	0.00	0	0		
									point55	55	5,762,177.5	2,285,038.0	120.00	15.00	0.00	0	0		
									point54	54	5,762,186.5	2,285,059.0	120.00	15.00	0.00	0	0		
									point53	53	5,762,208.5	2,285,048.8	120.00	15.00	0.00	0	0		
									point52	52	5,762,169.5	2,284,996.2	120.00	15.00	0.00	0	0		
									point51	51	5,762,115.5	2,285,030.2	120.00	15.00					
Home 12	W	0.00	99.99	0.00				0.00	point62	62	5,762,086.0	2,285,000.8	120.00	15.00	0.00	0	0		
									point61	61	5,762,134.0	2,284,974.0	120.00	15.00	0.00	0	0		
									point60	60	5,762,145.5	2,284,993.2	120.00	15.00	0.00	0	0		
									point59	59	5,762,099.5	2,285,020.2	120.00	15.00	0.00	0	0		
									point58	58	5,762,086.0	2,285,000.8	120.00	15.00					
Daycare	W	0.00	99.99	0.00				0.00	point67	67	5,762,285.5	2,285,065.8	117.90	15.00	0.00	0	0		
									point66	66	5,762,265.5	2,285,034.2	117.90	15.00	0.00	0	0		
									point65	65	5,762,375.5	2,284,966.0	117.90	15.00	0.00	0	0		
									point64	64	5,762,398.5	2,285,011.0	117.90	15.00	0.00	0	0		
									point63	63	5,762,285.5	2,285,065.8	117.90	15.00					
Home 14	W	0.00	99.99	0.00				0.00	point72	72	5,761,776.0	2,285,408.5	110.00	15.00	0.00	0	0		
									point71	71	5,761,823.5	2,285,372.2	110.00	15.00	0.00	0	0		
									point70	70	5,761,810.5	2,285,355.5	110.00	15.00	0.00	0	0		
									point69	69	5,761,763.5	2,285,391.5	110.00	15.00	0.00	0	0		
									point68	68	5,761,776.0	2,285,408.5	110.00	15.00					
Home 15	W	0.00	99.99	0.00				0.00	point77	77	5,761,852.0	2,285,345.8	110.00	15.00	0.00	0	0		
									point76	76	5,761,882.0	2,285,342.8	110.00	15.00	0.00	0	0		
									point75	75	5,761,878.5	2,285,281.8	110.00	15.00	0.00	0	0		
									point74	74	5,761,850.5	2,285,284.5	110.00	15.00	0.00	0	0		
									point73	73	5,761,852.0	2,285,345.8	110.00	15.00					
Home 16	W	0.00	99.99	0.00				0.00	point82	82	5,761,896.5	2,285,345.8	110.00	15.00	0.00	0	0		
									point81	81	5,761,891.0	2,285,285.0	110.00	15.00	0.00	0	0		
									point80	80	5,761,924.0	2,285,282.0	110.00	15.00	0.00	0	0		
									point79	79	5,761,929.0	2,285,342.5	110.00	15.00	0.00	0	0		
									point78	78	5,761,896.5	2,285,345.8	110.00	15.00					
Home 17	W	0.00	99.99	0.00				0.00	point87	87	5,761,931.0	2,285,295.2	110.00	15.00	0.00	0	0		
									point86	86	5,761,937.0	2,285,357.0	110.00	15.00	0.00	0	0		

									point85	85	5,761,955.0	2,285,355.5	110.00	15.00	0.00	0	0		
									point84	84	5,761,951.0	2,285,293.5	110.00	15.00	0.00	0	0		
									point83	83	5,761,931.0	2,285,295.2	110.00	15.00					
Home 18	W	0.00	99.99	0.00				0.00	point92	92	5,762,139.5	2,285,292.5	111.30	15.00	0.00	0	0		
									point91	91	5,762,159.0	2,285,283.8	111.30	15.00	0.00	0	0		
									point90	90	5,762,184.5	2,285,343.5	111.30	15.00	0.00	0	0		
									point89	89	5,762,164.0	2,285,353.5	111.30	15.00	0.00	0	0		
									point88	88	5,762,139.5	2,285,292.5	111.30	15.00					
Home 19	W	0.00	99.99	0.00				0.00	point97	97	5,762,167.0	2,285,279.5	111.30	15.00	0.00	0	0		
									point96	96	5,762,189.0	2,285,329.5	111.30	15.00	0.00	0	0		
									point95	95	5,762,218.0	2,285,317.2	111.30	15.00	0.00	0	0		
									point94	94	5,762,196.5	2,285,268.2	111.30	15.00	0.00	0	0		
									point93	93	5,762,167.0	2,285,279.5	111.30	15.00					
Home 20	W	0.00	99.99	0.00				0.00	point102	102	5,762,213.5	2,285,260.5	111.50	15.00	0.00	0	0		
									point101	101	5,762,236.5	2,285,320.8	111.50	15.00	0.00	0	0		
									point100	100	5,762,258.5	2,285,310.8	111.50	15.00	0.00	0	0		
									point99	99	5,762,233.0	2,285,256.5	111.50	15.00	0.00	0	0		
									point98	98	5,762,213.5	2,285,260.5	111.50	15.00					
Home 21	W	0.00	99.99	0.00				0.00	point107	107	5,762,240.0	2,285,256.0	111.50	15.00	0.00	0	0		
									point106	106	5,762,264.0	2,285,310.8	111.50	15.00	0.00	0	0		
									point105	105	5,762,284.5	2,285,301.5	111.50	15.00	0.00	0	0		
									point104	104	5,762,265.0	2,285,246.8	111.50	15.00	0.00	0	0		
									point103	103	5,762,240.0	2,285,256.0	111.50	15.00					
Home 22	W	0.00	99.99	0.00				0.00	point112	112	5,762,292.5	2,285,240.5	112.40	15.00	0.00	0	0		
									point111	111	5,762,315.5	2,285,290.0	112.40	15.00	0.00	0	0		
									point110	110	5,762,336.0	2,285,280.0	112.40	15.00	0.00	0	0		
									point109	109	5,762,317.5	2,285,233.5	112.40	15.00	0.00	0	0		
									point108	108	5,762,292.5	2,285,240.5	112.40	15.00					
Home 23	W	0.00	99.99	0.00				0.00	point117	117	5,762,342.5	2,285,221.8	113.00	15.00	0.00	0	0		
									point116	116	5,762,369.5	2,285,277.0	113.00	15.00	0.00	0	0		
									point115	115	5,762,400.5	2,285,266.0	113.00	15.00	0.00	0	0		
									point114	114	5,762,377.0	2,285,210.0	113.00	15.00	0.00	0	0		
									point113	113	5,762,342.5	2,285,221.8	113.00	15.00					
Home 24	W	0.00	99.99	0.00				0.00	point122	122	5,762,381.5	2,285,204.8	114.70	15.00	0.00	0	0		
									point121	121	5,762,403.0	2,285,255.8	114.70	15.00	0.00	0	0		
									point120	120	5,762,423.0	2,285,247.8	114.70	15.00	0.00	0	0		
									point119	119	5,762,400.5	2,285,197.8	114.70	15.00	0.00	0	0		
									point118	118	5,762,381.5	2,285,204.8	114.70	15.00					
Home 25	W	0.00	99.99	0.00				0.00	point127	127	5,762,426.0	2,285,185.8	115.00	15.00	0.00	0	0		
									point126	126	5,762,448.5	2,285,241.5	115.00	15.00	0.00	0	0		
									point125	125	5,762,476.0	2,285,231.0	115.00	15.00	0.00	0	0		
									point124	124	5,762,448.5	2,285,176.5	115.00	15.00	0.00	0	0		
									point123	123	5,762,426.0	2,285,185.8	115.00	15.00					
Home 26	W	0.00	99.99	0.00				0.00	point132	132	5,762,454.5	2,285,172.5	115.00	15.00	0.00	0	0		
									point131	131	5,762,480.5	2,285,231.5	115.00	15.00	0.00	0	0		
									point130	130	5,762,514.0	2,285,216.8	115.00	15.00	0.00	0	0		
									point129	129	5,762,492.5	2,285,160.5	115.00	15.00	0.00	0	0		
									point128	128	5,762,454.5	2,285,172.5	115.00	15.00					
Home 27	W	0.00	99.99	0.00				0.00	point137	137	5,761,915.0	2,285,445.5	110.00	15.00	0.00	0	0		

									point136	136	5,761,946.5	2,285,486.5	110.00	15.00	0.00	0	0			
									point135	135	5,761,965.0	2,285,471.5	110.00	15.00	0.00	0	0			
									point134	134	5,761,933.5	2,285,431.8	110.00	15.00	0.00	0	0			
									point133	133	5,761,915.0	2,285,445.5	110.00	15.00						
Home 28	W	0.00	99.99	0.00				0.00	point142	142	5,761,879.0	2,285,477.0	110.00	15.00	0.00	0	0			
									point141	141	5,761,903.0	2,285,509.0	110.00	15.00	0.00	0	0			
									point140	140	5,761,931.5	2,285,486.0	110.00	15.00	0.00	0	0			
									point139	139	5,761,904.5	2,285,454.8	110.00	15.00	0.00	0	0			
									point138	138	5,761,879.0	2,285,477.0	110.00	15.00						
Home 29	W	0.00	99.99	0.00				0.00	point147	147	5,761,980.0	2,285,401.5	110.00	15.00	0.00	0	0			
									point146	146	5,762,002.5	2,285,429.0	110.00	15.00	0.00	0	0			
									point145	145	5,762,039.5	2,285,401.2	110.00	15.00	0.00	0	0			
									point144	144	5,762,021.0	2,285,376.2	110.00	15.00	0.00	0	0			
									point143	143	5,761,980.0	2,285,401.5	110.00	15.00						
Pool House	W	0.00	99.99	0.00				0.00	point152	152	5,762,176.0	2,285,471.8	111.30	15.00	0.00	0	0			
									point151	151	5,762,211.0	2,285,472.0	111.30	15.00	0.00	0	0			
									point150	150	5,762,210.5	2,285,451.8	111.30	15.00	0.00	0	0			
									point149	149	5,762,172.5	2,285,455.0	111.30	15.00	0.00	0	0			
									point148	148	5,762,176.0	2,285,471.8	111.30	15.00						
Home 30	W	0.00	99.99	0.00				0.00	point157	157	5,762,277.0	2,285,379.8	111.50	15.00	0.00	0	0			
									point156	156	5,762,321.0	2,285,358.2	111.50	15.00	0.00	0	0			
									point155	155	5,762,330.5	2,285,381.0	111.50	15.00	0.00	0	0			
									point154	154	5,762,288.5	2,285,399.0	111.50	15.00	0.00	0	0			
									point153	153	5,762,277.0	2,285,379.8	111.50	15.00						
Home 31	W	0.00	99.99	0.00				0.00	point162	162	5,762,387.5	2,285,346.5	111.50	15.00	0.00	0	0			
									point161	161	5,762,407.0	2,285,386.2	111.50	15.00	0.00	0	0			
									point160	160	5,762,431.5	2,285,371.2	111.50	15.00	0.00	0	0			
									point159	159	5,762,411.5	2,285,333.2	111.50	15.00	0.00	0	0			
									point158	158	5,762,387.5	2,285,346.5	111.50	15.00						
Home 32	W	0.00	99.99	0.00				0.00	point167	167	5,762,427.0	2,285,331.8	113.00	15.00	0.00	0	0			
									point166	166	5,762,444.0	2,285,364.2	113.00	15.00	0.00	0	0			
									point165	165	5,762,471.5	2,285,349.5	113.00	15.00	0.00	0	0			
									point164	164	5,762,453.0	2,285,314.5	113.00	15.00	0.00	0	0			
									point163	163	5,762,427.0	2,285,331.8	113.00	15.00						
Home 33	W	0.00	99.99	0.00				0.00	point172	172	5,762,459.5	2,285,310.5	114.70	15.00	0.00	0	0			
									point171	171	5,762,481.5	2,285,351.8	114.70	15.00	0.00	0	0			
									point170	170	5,762,502.0	2,285,338.0	114.70	15.00	0.00	0	0			
									point169	169	5,762,483.5	2,285,296.5	114.70	15.00	0.00	0	0			
									point168	168	5,762,459.5	2,285,310.5	114.70	15.00						
Home 34	W	0.00	99.99	0.00				0.00	point177	177	5,762,490.5	2,285,280.2	115.00	15.00	0.00	0	0			
									point176	176	5,762,518.5	2,285,333.2	115.00	15.00	0.00	0	0			
									point175	175	5,762,543.5	2,285,318.0	115.00	15.00	0.00	0	0			
									point174	174	5,762,515.0	2,285,265.5	115.00	15.00	0.00	0	0			
									point173	173	5,762,490.5	2,285,280.2	115.00	15.00						
Home 35	W	0.00	99.99	0.00				0.00	point182	182	5,762,524.0	2,285,273.0	115.00	15.00	0.00	0	0			
									point181	181	5,762,547.0	2,285,310.5	115.00	15.00	0.00	0	0			
									point180	180	5,762,575.5	2,285,289.8	115.00	15.00	0.00	0	0			
									point179	179	5,762,553.5	2,285,256.5	115.00	15.00	0.00	0	0			
									point178	178	5,762,524.0	2,285,273.0	115.00	15.00						

Home 36	W	0.00	99.99	0.00				0.00	point187	187	5,761,566.5	2,285,125.8	110.00	15.00	0.00	0	0		
									point186	186	5,761,601.0	2,285,122.8	110.00	15.00	0.00	0	0		
									point185	185	5,761,597.5	2,285,073.5	110.00	15.00	0.00	0	0		
									point184	184	5,761,564.0	2,285,075.0	110.00	15.00	0.00	0	0		
									point183	183	5,761,566.5	2,285,125.8	110.00	15.00					
Home 37	W	0.00	99.99	0.00				0.00	point192	192	5,761,617.0	2,285,122.0	110.00	15.00	0.00	0	0		
									point191	191	5,761,650.5	2,285,119.2	110.00	15.00	0.00	0	0		
									point190	190	5,761,647.0	2,285,063.8	110.00	15.00	0.00	0	0		
									point189	189	5,761,610.5	2,285,066.5	110.00	15.00	0.00	0	0		
									point188	188	5,761,617.0	2,285,122.0	110.00	15.00					
Building	W	0.00	99.99	0.00				0.00	point197	197	5,762,309.5	2,284,866.5	120.00	15.00	0.00	0	0		
									point196	196	5,762,201.0	2,284,924.5	120.00	15.00	0.00	0	0		
									point195	195	5,762,183.0	2,284,899.5	120.00	15.00	0.00	0	0		
									point194	194	5,762,291.0	2,284,831.5	120.00	15.00	0.00	0	0		
									point193	193	5,762,309.5	2,284,866.5	120.00	15.00					
Fence 1	W	0.00	99.99	0.00				0.00	point200	200	5,762,553.5	2,285,255.0	115.00	6.00	0.00	0	0		
									point199	199	5,762,545.5	2,285,242.0	115.00	6.00	0.00	0	0		
									point198	198	5,762,536.5	2,285,247.0	115.00	6.00					
Fence 2	W	0.00	99.99	0.00				0.00	point205	205	5,762,499.5	2,285,230.8	115.00	6.00	0.00	0	0		
									point204	204	5,762,502.0	2,285,238.5	115.00	6.00	0.00	0	0		
									point203	203	5,762,529.5	2,285,224.8	115.00	6.00	0.00	0	0		
									point202	202	5,762,522.5	2,285,208.8	115.00	6.00	0.00	0	0		
									point201	201	5,762,513.5	2,285,211.5	115.00	6.00					
Pool Fence	W	0.00	99.99	0.00				0.00	point210	210	5,760,348.5	2,285,954.5	110.00	6.00	0.00	0	0		
									point209	209	5,760,366.0	2,285,994.0	110.00	6.00	0.00	0	0		
									point208	208	5,760,383.5	2,285,995.5	110.00	6.00	0.00	0	0		
									point207	207	5,760,434.0	2,285,959.5	110.00	6.00	0.00	0	0		
									point206	206	5,760,387.5	2,285,857.0	110.00	6.00					
Building 2	W	0.00	99.99	0.00				0.00	point215	215	5,760,288.5	2,285,967.8	110.00	15.00	0.00	0	0		
									point214	214	5,760,235.5	2,285,863.5	110.00	15.00	0.00	0	0		
									point213	213	5,760,290.5	2,285,837.0	110.00	15.00	0.00	0	0		
									point212	212	5,760,343.5	2,285,941.8	110.00	15.00	0.00	0	0		
									point211	211	5,760,288.5	2,285,967.8	110.00	15.00					
Building 3	W	0.00	99.99	0.00				0.00	point220	220	5,760,319.0	2,285,837.5	110.00	15.00	0.00	0	0		
									point219	219	5,760,292.5	2,285,785.5	110.00	15.00	0.00	0	0		
									point218	218	5,760,396.5	2,285,734.0	110.00	15.00	0.00	0	0		
									point217	217	5,760,423.0	2,285,786.2	110.00	15.00	0.00	0	0		
									point216	216	5,760,319.0	2,285,837.5	110.00	15.00					
Building 4	W	0.00	99.99	0.00				0.00	point225	225	5,760,508.5	2,285,838.2	110.00	15.00	0.00	0	0		
									point224	224	5,760,476.0	2,285,767.2	110.00	15.00	0.00	0	0		
									point223	223	5,760,500.0	2,285,753.0	110.00	15.00	0.00	0	0		
									point222	222	5,760,533.5	2,285,823.2	110.00	15.00	0.00	0	0		
									point221	221	5,760,508.5	2,285,838.2	110.00	15.00					

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INPUT: TERRAIN LINES
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Alternative 3 Conditions

Terrain Line Name	Points No.	Coordinates (ground) X ft	Y ft	Z ft
Higuera NB	110	5,761,764.5	2,283,719.0	118.90
	109	5,761,817.5	2,283,807.8	118.90
	108	5,761,870.0	2,283,897.8	118.90
	107	5,761,914.5	2,283,973.5	118.90
	106	5,761,960.5	2,284,054.8	118.90
	105	5,762,010.0	2,284,141.0	118.90
	104	5,762,065.0	2,284,233.0	118.90
	103	5,762,114.0	2,284,315.2	118.90
	102	5,762,165.5	2,284,405.0	118.90
	101	5,762,213.5	2,284,484.5	119.10
	100	5,762,268.5	2,284,576.5	119.40
	99	5,762,318.0	2,284,655.8	118.80
	98	5,762,374.0	2,284,747.8	118.30
	97	5,762,426.5	2,284,836.0	118.90
	96	5,762,471.5	2,284,915.5	117.90
	95	5,762,525.5	2,285,007.5	117.70
	94	5,762,569.0	2,285,087.8	117.80
	93	5,762,615.0	2,285,168.5	117.80
	92	5,762,662.5	2,285,250.8	117.50
	91	5,762,713.0	2,285,330.0	117.00
	90	5,762,773.0	2,285,423.5	117.70
	89	5,762,817.0	2,285,500.0	117.20
	88	5,762,862.5	2,285,588.5	117.30
	87	5,762,914.5	2,285,687.0	118.10

	86	5,762,976.0	2,285,802.2	117.70
	85	5,763,040.5	2,285,924.5	117.80
	84	5,763,095.5	2,286,030.2	117.80
	83	5,763,150.5	2,286,111.5	117.80
Higuera SB	139	5,761,733.5	2,283,737.5	118.90
	138	5,761,785.5	2,283,826.2	118.90
	137	5,761,839.5	2,283,918.2	118.90
	136	5,761,885.0	2,283,992.5	118.90
	135	5,761,931.0	2,284,072.8	118.90
	134	5,761,980.5	2,284,158.8	118.90
	133	5,762,035.0	2,284,251.8	118.90
	132	5,762,084.0	2,284,334.0	118.90
	131	5,762,135.5	2,284,424.0	118.90
	130	5,762,183.5	2,284,503.5	119.10
	129	5,762,235.0	2,284,595.0	119.40
	128	5,762,281.5	2,284,677.0	118.80
	127	5,762,333.0	2,284,772.0	118.30
	126	5,762,383.5	2,284,862.0	118.00
	125	5,762,427.5	2,284,942.0	117.90
	124	5,762,483.5	2,285,031.0	117.70
	123	5,762,527.0	2,285,111.0	117.80
	122	5,762,573.0	2,285,191.8	117.80
	121	5,762,624.0	2,285,276.2	117.50
	120	5,762,671.0	2,285,353.0	117.00
	119	5,762,726.5	2,285,451.0	117.70
	118	5,762,768.0	2,285,527.5	117.20
	117	5,762,813.5	2,285,616.2	117.30
	116	5,762,865.5	2,285,714.8	118.10
	115	5,762,927.0	2,285,829.8	117.70
	114	5,762,991.5	2,285,952.0	117.80
	113	5,763,046.5	2,286,058.0	117.80
	112	5,763,101.0	2,286,139.2	117.80
US 101 NB Off-Ramp	220	5,761,062.5	2,285,524.0	119.70
	219	5,761,013.5	2,285,476.5	119.70
	218	5,760,943.0	2,285,403.0	114.80

	217	5,760,869.0	2,285,339.5	111.50
	216	5,760,804.5	2,285,272.0	109.90
	215	5,760,741.5	2,285,202.8	105.30
	214	5,760,677.0	2,285,117.0	104.90
	213	5,760,622.5	2,285,023.8	104.90
	212	5,760,584.5	2,284,927.8	103.30
	211	5,760,553.0	2,284,839.2	102.40
	210	5,760,530.0	2,284,733.0	101.70
	209	5,760,520.0	2,284,623.2	102.00
	208	5,760,504.5	2,284,518.5	101.70
	207	5,760,495.0	2,284,432.2	104.60
	206	5,760,483.0	2,284,328.5	104.90
US 101 SB Off-Ramp	225	5,760,796.0	2,286,543.5	109.90
	224	5,760,904.5	2,286,587.2	108.60
	223	5,761,024.5	2,286,645.8	108.90
	222	5,761,120.0	2,286,707.2	108.90
	221	5,761,207.0	2,286,834.5	112.50
US 101 NB 1	238	5,760,423.5	2,283,770.0	115.00
	237	5,760,437.5	2,283,950.0	109.70
	236	5,760,446.5	2,284,089.2	108.50
	235	5,760,449.0	2,284,274.2	107.30
	234	5,760,457.0	2,284,457.5	105.00
	233	5,760,468.0	2,284,638.2	103.60
	232	5,760,479.5	2,284,804.5	102.00
	231	5,760,499.0	2,284,998.0	101.10
	230	5,760,535.5	2,285,170.0	101.40
	229	5,760,586.0	2,285,341.0	102.20
	228	5,760,654.5	2,285,515.0	105.00
	227	5,760,737.0	2,285,673.0	106.80
	226	5,760,821.5	2,285,835.0	105.00
US 101 NB 2	250	5,760,948.5	2,286,078.5	107.30
	249	5,761,054.5	2,286,276.2	109.20
	248	5,761,206.5	2,286,565.8	111.50
	247	5,761,343.0	2,286,827.0	115.00
	246	5,761,481.0	2,287,086.5	117.00

	245	5,761,612.0	2,287,339.5	119.00
	244	5,761,771.5	2,287,639.0	120.70
	243	5,761,936.5	2,287,950.0	123.70
	242	5,762,096.5	2,288,259.0	125.00
	241	5,762,241.5	2,288,531.0	125.00
	240	5,762,375.5	2,288,785.8	128.50
	239	5,762,516.5	2,289,056.0	130.00
US 101 SB 1	263	5,760,312.5	2,283,773.8	109.70
	262	5,760,332.0	2,283,954.5	109.60
	261	5,760,339.0	2,284,096.0	108.50
	260	5,760,344.5	2,284,281.5	106.70
	259	5,760,355.5	2,284,464.8	105.10
	258	5,760,364.0	2,284,648.8	103.60
	257	5,760,375.5	2,284,812.5	103.50
	256	5,760,393.5	2,285,012.0	103.60
	255	5,760,431.5	2,285,191.0	104.10
	254	5,760,486.5	2,285,377.0	105.30
	253	5,760,565.0	2,285,560.5	106.70
	252	5,760,646.0	2,285,721.5	106.80
	251	5,760,769.5	2,285,957.0	106.70
US 101 SB 2	275	5,760,895.5	2,286,190.8	108.40
	274	5,760,964.0	2,286,324.8	109.20
	273	5,761,116.0	2,286,614.2	111.50
	272	5,761,252.0	2,286,875.5	115.00
	271	5,761,390.0	2,287,135.0	117.00
	270	5,761,521.5	2,287,388.0	119.50
	269	5,761,681.0	2,287,687.5	120.70
	268	5,761,845.5	2,287,998.5	123.60
	267	5,762,005.5	2,288,307.5	125.00
	266	5,762,150.5	2,288,579.5	125.00
	265	5,762,284.5	2,288,834.2	128.50
	264	5,762,430.5	2,289,102.0	130.00
Los Osos WB	315	5,762,477.0	2,285,082.2	117.20
	314	5,762,376.5	2,285,140.5	113.70
	313	5,762,251.0	2,285,183.0	111.90

	312	5,762,114.5	2,285,199.2	111.10
	311	5,761,916.5	2,285,223.0	110.10
	310	5,761,786.0	2,285,233.2	109.40
	309	5,761,596.0	2,285,256.8	109.90
	308	5,761,532.5	2,285,275.2	109.90
	307	5,761,415.0	2,285,322.8	113.20
	306	5,761,309.0	2,285,389.0	114.80
	305	5,761,262.0	2,285,427.2	114.80
	304	5,761,172.5	2,285,520.2	118.10
	303	5,761,133.0	2,285,569.0	119.70
	302	5,761,072.5	2,285,675.2	121.40
	301	5,761,027.0	2,285,796.5	123.00
	300	5,760,984.5	2,285,921.8	126.30
	299	5,760,941.0	2,286,045.2	126.30
	298	5,760,899.0	2,286,171.8	126.30
	297	5,760,855.5	2,286,297.8	124.70
	296	5,760,813.5	2,286,421.5	116.50
	295	5,760,769.0	2,286,549.0	111.50
	294	5,760,747.5	2,286,608.2	111.50
	293	5,760,704.0	2,286,738.5	108.60
	292	5,760,634.0	2,286,920.2	109.30
	291	5,760,609.5	2,286,984.5	109.90
	290	5,760,559.0	2,287,105.2	111.50
	289	5,760,502.5	2,287,222.2	113.20
	288	5,760,454.5	2,287,334.2	113.20
	287	5,760,395.5	2,287,444.5	113.30
	286	5,760,336.5	2,287,552.5	113.40
	285	5,760,271.5	2,287,663.2	115.30
	284	5,760,198.0	2,287,780.0	114.90
	283	5,760,127.0	2,287,890.8	115.40
	282	5,760,066.5	2,287,984.8	116.90
	281	5,759,998.5	2,288,088.5	117.60
	280	5,759,934.5	2,288,189.8	117.20
	279	5,759,867.0	2,288,288.5	117.20
	278	5,759,801.5	2,288,385.8	117.20

	277	5,759,745.0	2,288,470.0	117.20
	276	5,759,687.5	2,288,558.0	117.20
Los Osos SB	355	5,762,455.0	2,285,023.5	117.20
	354	5,762,355.0	2,285,083.5	113.70
	353	5,762,237.0	2,285,124.0	111.90
	352	5,762,110.0	2,285,140.5	111.30
	351	5,761,914.0	2,285,156.2	110.10
	350	5,761,780.5	2,285,167.0	109.40
	349	5,761,582.5	2,285,190.5	109.90
	348	5,761,515.0	2,285,208.8	109.90
	347	5,761,387.5	2,285,261.0	111.40
	346	5,761,273.0	2,285,330.8	113.20
	345	5,761,220.0	2,285,373.0	114.80
	344	5,761,122.5	2,285,474.0	118.10
	343	5,761,079.0	2,285,524.5	119.70
	342	5,761,011.0	2,285,649.5	121.40
	341	5,760,963.5	2,285,776.0	123.00
	340	5,760,920.5	2,285,903.8	126.30
	339	5,760,879.5	2,286,025.8	126.30
	338	5,760,835.5	2,286,150.5	126.30
	337	5,760,792.0	2,286,277.8	124.70
	336	5,760,750.5	2,286,400.5	116.50
	335	5,760,708.5	2,286,526.2	111.50
	334	5,760,687.0	2,286,589.5	111.50
	333	5,760,633.0	2,286,709.8	108.60
	332	5,760,568.0	2,286,896.0	109.30
	331	5,760,547.0	2,286,958.2	109.90
	330	5,760,493.5	2,287,080.0	111.50
	329	5,760,440.0	2,287,196.2	113.20
	328	5,760,394.5	2,287,305.2	113.20
	327	5,760,339.0	2,287,412.0	113.30
	326	5,760,277.5	2,287,519.2	113.40
	325	5,760,212.5	2,287,624.2	115.30
	324	5,760,139.0	2,287,741.0	114.90
	323	5,760,068.0	2,287,852.0	115.40

	322	5,760,008.5	2,287,939.5	116.90
	321	5,759,936.5	2,288,040.5	117.60
	320	5,759,868.0	2,288,141.8	117.20
	319	5,759,797.0	2,288,240.5	117.20
	318	5,759,729.0	2,288,338.5	117.20
	317	5,759,672.5	2,288,422.8	117.20
	316	5,759,614.5	2,288,510.5	117.20
Calle Joaquin WB	378	5,760,592.5	2,286,744.2	108.70
	377	5,760,537.0	2,286,714.0	108.70
	376	5,760,485.0	2,286,662.8	108.50
	375	5,760,451.0	2,286,607.8	106.60
	374	5,760,414.5	2,286,532.0	106.60
	373	5,760,379.5	2,286,466.5	106.60
	372	5,760,339.5	2,286,393.0	106.60
	371	5,760,303.5	2,286,303.2	106.60
	370	5,760,272.5	2,286,228.8	106.60
	369	5,760,241.0	2,286,155.2	106.60
	368	5,760,207.0	2,286,077.8	106.60
	367	5,760,178.5	2,286,017.0	106.60
	366	5,760,147.5	2,285,943.0	106.60
	365	5,760,129.0	2,285,883.0	106.60
	364	5,760,130.0	2,285,831.0	106.60
	363	5,760,147.5	2,285,773.5	106.60
	362	5,760,177.0	2,285,730.8	106.60
	361	5,760,228.0	2,285,693.5	106.60
	360	5,760,303.5	2,285,658.5	106.60
	359	5,760,374.5	2,285,618.5	106.60
	358	5,760,427.0	2,285,552.0	103.00
	357	5,760,448.0	2,285,475.0	100.70
	356	5,760,442.0	2,285,397.5	100.70
Calle Joaquin EB	401	5,760,566.0	2,286,808.8	108.70
	400	5,760,498.5	2,286,761.5	108.70
	399	5,760,440.0	2,286,707.2	108.50
	398	5,760,395.5	2,286,638.5	106.60
	397	5,760,364.0	2,286,557.5	106.60

	396	5,760,337.5	2,286,487.2	106.60
	395	5,760,306.5	2,286,406.8	106.60
	394	5,760,270.5	2,286,316.8	106.60
	393	5,760,243.0	2,286,240.5	106.60
	392	5,760,213.5	2,286,167.5	106.60
	391	5,760,182.5	2,286,088.5	106.60
	390	5,760,157.5	2,286,025.0	106.60
	389	5,760,126.0	2,285,951.0	106.60
	388	5,760,107.5	2,285,888.5	106.60
	387	5,760,106.5	2,285,827.2	106.60
	386	5,760,128.0	2,285,764.2	106.60
	385	5,760,161.5	2,285,716.2	106.60
	384	5,760,216.5	2,285,673.5	106.60
	383	5,760,293.0	2,285,638.8	106.60
	382	5,760,361.5	2,285,599.5	106.60
	381	5,760,407.5	2,285,543.0	103.00
	380	5,760,425.5	2,285,473.5	100.70
	379	5,760,417.5	2,285,401.8	100.70

LSA Associates, Inc.
Jason Lui

9 October 2006
TNM 2.5

RESULTS: BARRIER DESCRIPTIONS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Alternative 3 Conditions
BARRIER DESIGN: INPUT HEIGHTS

Barriers

Name	Type	Heights along Barrier			Length	If Wall	If Berm			Cost
		Min	Avg	Max		Area	Volume	Top Width	Run:Rise	
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	$
Home 1	W	15.00	15.00	15.00	203	3044				0
Home 2	W	15.00	15.00	15.00	169	2535				0
Home 3	W	15.00	15.00	15.00	171	2558				0
Home 4	W	15.00	15.00	15.00	169	2537				0
Home 5	W	15.00	15.00	15.00	210	3146				0
Home 6	W	15.00	15.00	15.00	190	2848				0
Home 7	W	15.00	15.00	15.00	167	2502				0
Home 8	W	15.00	15.00	15.00	189	2837				0
Home 9	W	15.00	15.00	15.00	169	2535				0
Home 10	W	15.00	15.00	15.00	159	2390				0
Home 11	W	15.00	15.00	15.00	261	3920				0
Home 12	W	15.00	15.00	15.00	154	2316				0
Daycare	W	15.00	15.00	15.00	343	5143				0
Home 14	W	15.00	15.00	15.00	161	2419				0
Home 15	W	15.00	15.00	15.00	181	2710				0
Home 16	W	15.00	15.00	15.00	188	2813				0
Home 17	W	15.00	15.00	15.00	162	2435				0
Home 18	W	15.00	15.00	15.00	175	2623				0
Home 19	W	15.00	15.00	15.00	171	2568				0
Home 20	W	15.00	15.00	15.00	169	2528				0
Home 21	W	15.00	15.00	15.00	167	2506				0
Home 22	W	15.00	15.00	15.00	153	2301				0
Home 23	W	15.00	15.00	15.00	192	2873				0

Home 24	W	15.00	15.00	15.00	152	2279				0
Home 25	W	15.00	15.00	15.00	175	2624				0
Home 26	W	15.00	15.00	15.00	201	3017				0
Home 27	W	15.00	15.00	15.00	149	2239				0
Home 28	W	15.00	15.00	15.00	152	2276				0
Home 29	W	15.00	15.00	15.00	161	2416				0
Pool House	W	15.00	15.00	15.00	111	1658				0
Home 30	W	15.00	15.00	15.00	142	2126				0
Home 31	W	15.00	15.00	15.00	143	2150				0
Home 32	W	15.00	15.00	15.00	139	2080				0
Home 33	W	15.00	15.00	15.00	145	2170				0
Home 34	W	15.00	15.00	15.00	178	2663				0
Home 35	W	15.00	15.00	15.00	153	2294				0
Home 36	W	15.00	15.00	15.00	168	2525				0
Home 37	W	15.00	15.00	15.00	182	2726				0
Building	W	15.00	15.00	15.00	321	4816				0
Fence 1	W	6.00	6.00	6.00	26	153				0
Fence 2	W	6.00	6.00	6.00	66	395				0
Pool Fence	W	6.00	6.00	6.00	235	1412				0
Building 2	W	15.00	15.00	15.00	356	5343				0
Building 3	W	15.00	15.00	15.00	349	5234				0
Building 4	W	15.00	15.00	15.00	213	3195				0
									Total Cost:	0

LSA Associates, Inc.
Jason Lui

9 October 2006
TNM 2.5

RESULTS: BARRIER-SEGMENT DESCRIPTIONS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Alternative 3 Conditions
BARRIER DESIGN: INPUT HEIGHTS

Barriers		Segments										
Name	Type	Name	No.	Heights			Length	If Wall			If Berm	Cost
				First Point	Average	Second Point		Area	On Struc?	Important Reflections?	Volume	
				ft	ft	ft	ft	sq ft			cu yd	$
Home 1	W	point5	5	15.00	15.00	15.00	65	981				0
		point4	4	15.00	15.00	15.00	33	499				0
		point3	3	15.00	15.00	15.00	69	1033				0
		point2	2	15.00	15.00	15.00	35	532				0
Home 2	W	point10	10	15.00	15.00	15.00	57	855				0
		point9	9	15.00	15.00	15.00	30	454				0
		point8	8	15.00	15.00	15.00	53	794				0
		point7	7	15.00	15.00	15.00	29	432				0
Home 3	W	point15	15	15.00	15.00	15.00	50	750				0
		point14	14	15.00	15.00	15.00	38	564				0
		point13	13	15.00	15.00	15.00	49	741				0
		point12	12	15.00	15.00	15.00	34	504				0
Home 4	W	point20	20	15.00	15.00	15.00	50	755				0
		point19	19	15.00	15.00	15.00	35	522				0
		point18	18	15.00	15.00	15.00	51	761				0
		point17	17	15.00	15.00	15.00	33	499				0
Home 5	W	point25	25	15.00	15.00	15.00	67	1001				0
		point24	24	15.00	15.00	15.00	39	585				0
		point23	23	15.00	15.00	15.00	69	1038				0
		point22	22	15.00	15.00	15.00	35	523				0
Home 6	W	point30	30	15.00	15.00	15.00	67	1002				0

		point29	29	15.00	15.00	15.00	28	414				0
		point28	28	15.00	15.00	15.00	67	1000				0
		point27	27	15.00	15.00	15.00	29	432				0
Home 7	W	point35	35	15.00	15.00	15.00	60	905				0
		point34	34	15.00	15.00	15.00	21	320				0
		point33	33	15.00	15.00	15.00	62	933				0
		point32	32	15.00	15.00	15.00	23	345				0
Home 8	W	point40	40	15.00	15.00	15.00	67	1008				0
		point39	39	15.00	15.00	15.00	26	395				0
		point38	38	15.00	15.00	15.00	68	1022				0
		point37	37	15.00	15.00	15.00	27	411				0
Home 9	W	point45	45	15.00	15.00	15.00	35	521				0
		point44	44	15.00	15.00	15.00	48	725				0
		point43	43	15.00	15.00	15.00	37	557				0
		point42	42	15.00	15.00	15.00	49	732				0
Home 10	W	point50	50	15.00	15.00	15.00	42	624				0
		point49	49	15.00	15.00	15.00	38	563				0
		point48	48	15.00	15.00	15.00	42	625				0
		point47	47	15.00	15.00	15.00	39	578				0
Home 11	W	point57	57	15.00	15.00	15.00	35	520				0
		point56	56	15.00	15.00	15.00	50	755				0
		point55	55	15.00	15.00	15.00	23	343				0
		point54	54	15.00	15.00	15.00	24	364				0
		point53	53	15.00	15.00	15.00	65	981				0
		point52	52	15.00	15.00	15.00	64	957				0
Home 12	W	point62	62	15.00	15.00	15.00	55	824				0
		point61	61	15.00	15.00	15.00	22	336				0
		point60	60	15.00	15.00	15.00	53	800				0
		point59	59	15.00	15.00	15.00	24	356				0
Daycare	W	point67	67	15.00	15.00	15.00	37	560				0
		point66	66	15.00	15.00	15.00	129	1942				0
		point65	65	15.00	15.00	15.00	51	758				0

		point64	64	15.00	15.00	15.00	126	1883				0
Home 14	W	point72	72	15.00	15.00	15.00	60	896				0
		point71	71	15.00	15.00	15.00	21	318				0
		point70	70	15.00	15.00	15.00	59	888				0
		point69	69	15.00	15.00	15.00	21	317				0
Home 15	W	point77	77	15.00	15.00	15.00	30	452				0
		point76	76	15.00	15.00	15.00	61	917				0
		point75	75	15.00	15.00	15.00	28	422				0
		point74	74	15.00	15.00	15.00	61	919				0
Home 16	W	point82	82	15.00	15.00	15.00	61	915				0
		point81	81	15.00	15.00	15.00	33	497				0
		point80	80	15.00	15.00	15.00	61	911				0
		point79	79	15.00	15.00	15.00	33	490				0
Home .17	W	point87	87	15.00	15.00	15.00	62	931				0
		point86	86	15.00	15.00	15.00	18	271				0
		point85	85	15.00	15.00	15.00	62	932				0
		point84	84	15.00	15.00	15.00	20	301				0
Home 18	W	point92	92	15.00	15.00	15.00	21	321				0
		point91	91	15.00	15.00	15.00	65	974				0
		point90	90	15.00	15.00	15.00	23	342				0
		point89	89	15.00	15.00	15.00	66	986				0
Home 19	W	point97	97	15.00	15.00	15.00	55	819				0
		point96	96	15.00	15.00	15.00	31	472				0
		point95	95	15.00	15.00	15.00	54	803				0
		point94	94	15.00	15.00	15.00	32	474				0
Home 20	W	point102	102	15.00	15.00	15.00	64	967				0
		point101	101	15.00	15.00	15.00	24	362				0
		point100	100	15.00	15.00	15.00	60	899				0
		point99	99	15.00	15.00	15.00	20	299				0
Home 21	W	point107	107	15.00	15.00	15.00	60	897				0
		point106	106	15.00	15.00	15.00	22	337				0

		point105	105	15.00	15.00	15.00	58	872				0
		point104	104	15.00	15.00	15.00	27	400				0
Home 22	W	point112	112	15.00	15.00	15.00	55	819				0
		point111	111	15.00	15.00	15.00	23	342				0
		point110	110	15.00	15.00	15.00	50	751				0
		point109	109	15.00	15.00	15.00	26	389				0
Home 23	W	point117	117	15.00	15.00	15.00	61	922				0
		point116	116	15.00	15.00	15.00	33	493				0
		point115	115	15.00	15.00	15.00	61	911				0
		point114	114	15.00	15.00	15.00	36	547				0
Home 24	W	point122	122	15.00	15.00	15.00	55	830				0
		point121	121	15.00	15.00	15.00	22	323				0
		point120	120	15.00	15.00	15.00	55	822				0
		point119	119	15.00	15.00	15.00	20	304				0
Home 25	W	point127	127	15.00	15.00	15.00	60	902				0
		point126	126	15.00	15.00	15.00	29	442				0
		point125	125	15.00	15.00	15.00	61	916				0
		point124	124	15.00	15.00	15.00	24	365				0
Home 26	W	point132	132	15.00	15.00	15.00	64	967				0
		point131	131	15.00	15.00	15.00	37	549				0
		point130	130	15.00	15.00	15.00	60	903				0
		point129	129	15.00	15.00	15.00	40	598				0
Home 27	W	point137	137	15.00	15.00	15.00	52	776				0
		point136	136	15.00	15.00	15.00	24	357				0
		point135	135	15.00	15.00	15.00	51	761				0
		point134	134	15.00	15.00	15.00	23	346				0
Home 28	W	point142	142	15.00	15.00	15.00	40	600				0
		point141	141	15.00	15.00	15.00	37	549				0
		point140	140	15.00	15.00	15.00	41	619				0
		point139	139	15.00	15.00	15.00	34	508				0
Home 29	W	point147	147	15.00	15.00	15.00	36	533				0

		point146	146	15.00	15.00	15.00	46	694				0
		point145	145	15.00	15.00	15.00	31	467				0
		point144	144	15.00	15.00	15.00	48	722				0
Pool House	W	point152	152	15.00	15.00	15.00	35	525				0
		point151	151	15.00	15.00	15.00	20	304				0
		point150	150	15.00	15.00	15.00	38	572				0
		point149	149	15.00	15.00	15.00	17	257				0
Home 30	W	point157	157	15.00	15.00	15.00	49	735				0
		point156	156	15.00	15.00	15.00	25	370				0
		point155	155	15.00	15.00	15.00	46	685				0
		point154	154	15.00	15.00	15.00	22	336				0
Home 31	W	point162	162	15.00	15.00	15.00	44	664				0
		point161	161	15.00	15.00	15.00	29	431				0
		point160	160	15.00	15.00	15.00	43	644				0
		point159	159	15.00	15.00	15.00	27	411				0
Home 32	W	point167	167	15.00	15.00	15.00	37	550				0
		point166	166	15.00	15.00	15.00	31	468				0
		point165	165	15.00	15.00	15.00	40	594				0
		point164	164	15.00	15.00	15.00	31	468				0
Home 33	W	point172	172	15.00	15.00	15.00	47	701				0
		point171	171	15.00	15.00	15.00	25	370				0
		point170	170	15.00	15.00	15.00	45	682				0
		point169	169	15.00	15.00	15.00	28	417				0
Home 34	W	point177	177	15.00	15.00	15.00	60	899				0
		point176	176	15.00	15.00	15.00	29	439				0
		point175	175	15.00	15.00	15.00	60	896				0
		point174	174	15.00	15.00	15.00	29	429				0
Home 35	W	point182	182	15.00	15.00	15.00	44	660				0
		point181	181	15.00	15.00	15.00	35	529				0
		point180	180	15.00	15.00	15.00	40	598				0
		point179	179	15.00	15.00	15.00	34	507				0

Home 36	W	point187	187	15.00	15.00	15.00	35	519				0
		point186	186	15.00	15.00	15.00	49	741				0
		point185	185	15.00	15.00	15.00	34	503				0
		point184	184	15.00	15.00	15.00	51	762				0
Home 37	W	point192	192	15.00	15.00	15.00	34	504				0
		point191	191	15.00	15.00	15.00	56	834				0
		point190	190	15.00	15.00	15.00	37	549				0
		point189	189	15.00	15.00	15.00	56	838				0
Building	W	point197	197	15.00	15.00	15.00	123	1845				0
		point196	196	15.00	15.00	15.00	31	462				0
		point195	195	15.00	15.00	15.00	128	1914				0
		point194	194	15.00	15.00	15.00	40	594				0
Fence 1	W	point200	200	6.00	6.00	6.00	15	92				0
		point199	199	6.00	6.00	6.00	10	62				0
Fence 2	W	point205	205	6.00	6.00	6.00	8	49				0
		point204	204	6.00	6.00	6.00	31	184				0
		point203	203	6.00	6.00	6.00	17	105				0
		point202	202	6.00	6.00	6.00	9	56				0
Pool Fence	W	point210	210	6.00	6.00	6.00	43	259				0
		point209	209	6.00	6.00	6.00	18	105				0
		point208	208	6.00	6.00	6.00	62	372				0
		point207	207	6.00	6.00	6.00	113	675				0
Building 2	W	point215	215	15.00	15.00	15.00	117	1754				0
		point214	214	15.00	15.00	15.00	61	916				0
		point213	213	15.00	15.00	15.00	117	1761				0
		point212	212	15.00	15.00	15.00	61	913				0
Building 3	W	point220	220	15.00	15.00	15.00	58	875				0
		point219	219	15.00	15.00	15.00	116	1741				0
		point218	218	15.00	15.00	15.00	59	879				0
		point217	217	15.00	15.00	15.00	116	1739				0
Building 4	W	point225	225	15.00	15.00	15.00	78	1171				0

		point224	224	15.00	15.00	15.00	28	419				0
		point223	223	15.00	15.00	15.00	78	1167				0
		point222	222	15.00	15.00	15.00	29	437				0

LSA Associates, Inc.													9-Oct-06			
Jason Lui													TNM 2.5			
													Calculated with TNM 2.5			
Results:	Sound Levels															
Project/Co	DEC0603															
Run:	Alternative 3															
							Increase over existing			With Barrier		Noise Reduction				
					Calculated	Crit'n	Calculated	Crit'n Sub'l	Type Impa	Calculated	With Calibr	Calculated	Goal	Calculated minus Goal		
Name	No.	Calibration	#DUs	Existing Leqh	dBA	dBA	dB	dB	dBA	dBA	dBA	dB	dB	dB		
R-1"	1	-2.8	1	0	72.4	66	72.4	10	Snd Lvl	72.4	0	8	0			
R-2"	2	-2.8	1	0	71.9	66	71.9	10	Snd Lvl	71.9	0	8	0			
R-3"	3	-2.8	1	0	73.6	66	73.6	10	Snd Lvl	73.6	0	8	0			
R-4"	4	1.8	1	0	68.1	66	68.1	10	Snd Lvl	68.1	0	8	0			
R-5"	5	1.8	1	0	66.8	66	66.8	10	Snd Lvl	66.8	0	8	0			
R-6"	6	1.8	1	0	67.8	66	67.8	10	Snd Lvl	67.8	0	8	0			
R-7"	7	-6.6	1	0	64.4	66	64.4	10	----	64.4	0	8	0			
R-8"	8	-6.6	1	0	63.9	66	63.9	10	----	63.9	0	8	0			
R-9"	9	-6.6	1	0	62.6	66	62.6	10	----	62.6	0	8	0			
R-10"	10	-6.6	1	0	63.9	66	63.9	10	----	63.9	0	8	0			
R-11"	11	-6.6	1	0	63.2	66	63.2	10	----	63.2	0	8	0			
R-12"	12	-6.6	1	0	63	66	63	10	----	63	0	8	0			
R-13"	13	-2.8	1	0	54.8	66	54.8	10	----	54.8	0	8	0			
R-14"	14	-2.8	1	0	53	66	53	10	----	53	0	8	0			
R-15"	15	-2.8	1	0	58.7	66	58.7	10	----	58.7	0	8	0			
R-16"	16	-1.6	1	0	64	66	64	10	----	64	0	8	0			
R-17"	17	-1.6	1	0	65.6	66	65.6	10	----	65.6	0	8	0			
R-18"	18	-2.8	1	0	50.8	66	50.8	10	----	50.8	0	8	0			
R-19"	19	-2.8	1	0	56.1	66	56.1	10	----	56.1	0	8	0			
R-20"	20	-2.8	1	0	62.5	66	62.5	10	----	62.5	0	8	0			
R-21"	21	-2.8	1	0	56.3	66	56.3	10	----	56.3	0	8	0			
R-22"	22	-1.6	1	0	58.7	66	58.7	10	----	58.7	0	8	0			
R-23"	23	-0.7	1	0	61.7	66	61.7	10	----	61.7	0	8	0			
R-24"	24	-0.7	1	0	53.2	66	53.2	10	----	53.2	0	8	0			
R-25"	25	-1.1	1	0	52	66	52	10	----	52	0	8	0			
R-26"	26	-1.1	1	0	54.8	66	54.8	10	----	54.8	0	8	0			
R-27"	27	-1.1	1	0	59.6	66	59.6	10	----	59.6	0	8	0			
R-28"	28	-0.3	1	0	58.8	66	58.8	10	----	58.8	0	8	0			
R-29"	30	-0.3	1	0	63.8	66	63.8	10	----	63.8	0	8	0			
R-30"	31	-0.7	1	0	57.7	66	57.7	10	----	57.7	0	8	0			
R-31"	32	-0.7	1	0	53	66	53	10	----	53	0	8	0			
R-32"	33	-0.7	1	0	58.9	66	58.9	10	----	58.9	0	8	0			
R-33"	34	-1.1	1	0	56.7	66	56.7	10	----	56.7	0	8	0			
R-31"	35	-1.1	1	0	53.3	66	53.3	10	----	53.3	0	8	0			
R-32"	36	-0.3	1	0	54.5	66	54.5	10	----	54.5	0	8	0			
R-33"	37	-0.3	1	0	52.9	66	52.9	10	----	52.9	0	8	0			
R-31"	38	-0.3	1	0	64	66	64	10	----	64	0	8	0			
R-32"	39	1.8	1	0	55.9	66	55.9	10	----	55.9	0	8	0			

APPENDIX E

TRAFFIC NOISE MODEL (TNM) 2.5 PRINTOUTS FOR ALTERNATIVE 6 CONDITIONS WITHOUT SOUND WALLS

LSA Associates, Inc.
Jason Lui

9 October 2006
TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Alternative 6 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		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Higuera NB	24.0	point147	147	5,761,753.0	2,283,727.0	118.90				Average	
		point118	118	5,761,806.5	2,283,815.8	118.90				Average	
		point117	117	5,761,858.5	2,283,905.8	118.90				Average	
		point116	116	5,761,903.5	2,283,981.5	118.90				Average	
		point115	115	5,761,949.5	2,284,062.8	118.90				Average	
		point114	114	5,761,999.0	2,284,148.8	118.90				Average	
		point113	113	5,762,054.0	2,284,240.8	118.90				Average	
		point112	112	5,762,103.0	2,284,323.2	118.90				Average	
		point111	111	5,762,154.5	2,284,413.0	118.90				Average	
		point110	110	5,762,202.5	2,284,492.5	119.10				Average	
		point109	109	5,762,257.5	2,284,584.5	119.40				Average	
		point108	108	5,762,307.0	2,284,663.8	118.80				Average	
		point107	107	5,762,362.5	2,284,755.8	118.30				Average	
		point106	106	5,762,415.5	2,284,844.0	118.90				Average	
		point105	105	5,762,460.0	2,284,923.5	117.90				Average	
		point104	104	5,762,514.5	2,285,015.5	117.70				Average	
		point103	103	5,762,558.0	2,285,095.8	117.80				Average	
		point102	102	5,762,604.0	2,285,176.5	117.80				Average	
		point101	101	5,762,651.0	2,285,258.8	117.50				Average	
		point100	100	5,762,701.5	2,285,337.8	117.00				Average	
		point99	99	5,762,762.0	2,285,431.5	117.70				Average	
		point98	98	5,762,806.0	2,285,508.0	117.20				Average	
		point97	97	5,762,851.0	2,285,596.5	117.30				Average	
		point96	96	5,762,903.5	2,285,695.0	118.10				Average	
		point95	95	5,762,965.0	2,285,810.2	117.70				Average	

		point94	94	5,763,029.5	2,285,932.2	117.80				Average	
		point93	93	5,763,084.0	2,286,038.2	117.80				Average	
		point92	92	5,763,139.0	2,286,119.5	117.80					
Higuera SB	24.0	point119	119	5,763,111.5	2,286,133.5	117.80				Average	
		point120	120	5,763,057.0	2,286,052.2	117.80				Average	
		point121	121	5,763,002.0	2,285,946.2	117.80				Average	
		point122	122	5,762,937.5	2,285,824.2	117.70				Average	
		point123	123	5,762,876.0	2,285,709.0	118.10				Average	
		point124	124	5,762,824.0	2,285,610.5	117.30				Average	
		point125	125	5,762,778.5	2,285,521.8	117.20				Average	
		point126	126	5,762,736.5	2,285,445.5	117.70				Average	
		point127	127	5,762,681.0	2,285,347.5	117.00				Average	
		point128	128	5,762,634.5	2,285,270.5	117.50				Average	
		point129	129	5,762,583.5	2,285,186.0	117.80				Average	
		point130	130	5,762,537.5	2,285,105.5	117.80				Average	
		point131	131	5,762,494.0	2,285,025.2	117.70				Average	
		point132	132	5,762,438.0	2,284,936.5	117.90				Average	
		point133	133	5,762,394.0	2,284,856.2	118.00				Average	
		point134	134	5,762,343.5	2,284,766.5	118.30				Average	
		point135	135	5,762,291.5	2,284,671.2	118.80				Average	
		point136	136	5,762,245.5	2,284,589.5	119.40				Average	
		point137	137	5,762,194.0	2,284,498.0	119.10				Average	
		point138	138	5,762,146.0	2,284,418.5	118.90				Average	
		point139	139	5,762,094.5	2,284,328.5	118.90				Average	
		point140	140	5,762,045.5	2,284,246.2	118.90				Average	
		point141	141	5,761,991.0	2,284,153.2	118.90				Average	
		point142	142	5,761,941.5	2,284,067.0	118.90				Average	
		point143	143	5,761,895.0	2,283,987.0	118.90				Average	
		point144	144	5,761,850.0	2,283,912.8	118.90				Average	
		point145	145	5,761,795.5	2,283,820.8	118.90				Average	
		point146	146	5,761,744.0	2,283,732.0	118.90					
US 101 NB 1	24.0	point238	238	5,760,404.5	2,283,771.2	115.00				Average	
		point159	159	5,760,418.5	2,283,950.0	109.70				Average	
		point158	158	5,760,430.0	2,284,090.5	108.50				Average	
		point157	157	5,760,435.5	2,284,276.0	107.30				Average	
		point156	156	5,760,447.0	2,284,457.2	105.00				Average	
		point155	155	5,760,455.0	2,284,641.2	103.60				Average	
		point154	154	5,760,463.5	2,284,804.5	102.00				Average	
		point153	153	5,760,484.0	2,285,000.2	101.10				Average	

		point152	152	5,760,519.0	2,285,172.5	101.40				Average	
		point151	151	5,760,570.5	2,285,349.0	102.20				Average	
		point150	150	5,760,639.0	2,285,520.5	105.00				Average	
		point149	149	5,760,720.0	2,285,681.8	106.80				Average	
		point148	148	5,760,805.0	2,285,843.5	105.00					
US 101 NB 2	24.0	point171	171	5,760,932.0	2,286,087.2	107.30				Average	
		point170	170	5,761,038.0	2,286,285.0	109.20				Average	
		point169	169	5,761,190.0	2,286,574.5	111.50				Average	
		point168	168	5,761,326.5	2,286,835.5	115.00				Average	
		point167	167	5,761,464.5	2,287,095.2	117.00				Average	
		point166	166	5,761,595.5	2,287,348.2	119.00				Average	
		point165	165	5,761,755.0	2,287,647.8	120.70				Average	
		point164	164	5,761,919.5	2,287,958.8	123.70				Average	
		point163	163	5,762,079.5	2,288,267.8	125.00				Average	
		point162	162	5,762,225.0	2,288,539.8	125.00				Average	
		point161	161	5,762,358.5	2,288,794.5	128.50				Average	
		point160	160	5,762,500.0	2,289,064.8	130.00					
US 101 SB 1	24.0	point173	173	5,760,788.0	2,285,947.2	106.70				Average	
		point174	174	5,760,664.5	2,285,712.0	106.80				Average	
		point175	175	5,760,583.5	2,285,550.8	106.70				Average	
		point176	176	5,760,505.0	2,285,367.5	105.30				Average	
		point177	177	5,760,449.0	2,285,185.8	104.10				Average	
		point178	178	5,760,412.5	2,285,010.0	103.60				Average	
		point179	179	5,760,394.5	2,284,810.5	103.50				Average	
		point180	180	5,760,386.5	2,284,647.5	103.60				Average	
		point181	181	5,760,378.0	2,284,463.2	105.10				Average	
		point182	182	5,760,364.5	2,284,280.8	106.70				Average	
		point183	183	5,760,358.5	2,284,095.2	108.50				Average	
		point184	184	5,760,347.5	2,283,952.2	109.60				Average	
		point237	237	5,760,335.5	2,283,772.5	109.70					
US 101 SB 2	24.0	point186	186	5,762,449.5	2,289,092.5	130.00				Average	
		point187	187	5,762,303.0	2,288,824.8	128.50				Average	
		point188	188	5,762,169.5	2,288,570.0	125.00				Average	
		point189	189	5,762,024.0	2,288,297.8	125.00				Average	
		point190	190	5,761,864.0	2,287,989.0	123.60				Average	
		point191	191	5,761,699.5	2,287,678.0	120.70				Average	
		point192	192	5,761,540.0	2,287,378.5	119.50				Average	
		point193	193	5,761,409.0	2,287,125.2	117.00				Average	
		point194	194	5,761,271.0	2,286,865.8	115.00				Average	

		point195	195	5,761,134.5	2,286,604.5	111.50				Average	
		point196	196	5,760,982.5	2,286,315.2	109.20				Average	
		point197	197	5,760,905.5	2,286,168.0	108.40					
US 101 NB On Ramp	12.0	point211	211	5,761,222.5	2,285,413.8	125.70				Average	
		point210	210	5,761,110.5	2,285,574.0	131.20				Average	
		point209	209	5,761,064.0	2,285,696.2	132.90				Average	
		point208	208	5,761,042.5	2,285,824.5	131.20				Average	
		point207	207	5,761,042.0	2,285,956.8	126.60				Average	
		point206	206	5,761,046.0	2,286,089.0	121.40				Average	
		point205	205	5,761,070.5	2,286,215.5	117.10				Average	
		point204	204	5,761,118.0	2,286,338.5	113.20				Average	
		point203	203	5,761,170.5	2,286,459.0	110.60				Average	
		point202	202	5,761,226.5	2,286,577.0	110.90				Average	
		point201	201	5,761,282.5	2,286,698.2	111.20				Average	
		point200	200	5,761,344.0	2,286,817.0	112.50				Average	
		point199	199	5,761,394.0	2,286,920.5	113.20					
US 101 NB Off Ramp	12.0	point230	230	5,760,468.0	2,284,347.0	106.00				Average	
		point229	229	5,760,480.0	2,284,451.0	104.70				Average	
		point228	228	5,760,489.5	2,284,537.2	104.90				Average	
		point227	227	5,760,504.5	2,284,642.0	105.90				Average	
		point226	226	5,760,519.0	2,284,751.8	106.30				Average	
		point225	225	5,760,552.5	2,284,851.5	111.50				Average	
		point224	224	5,760,583.5	2,284,952.5	117.10				Average	
		point223	223	5,760,627.5	2,285,045.0	121.40				Average	
		point222	222	5,760,682.5	2,285,141.0	126.90				Average	
		point221	221	5,760,747.5	2,285,225.5	132.90				Average	
		point217	217	5,760,809.5	2,285,294.5	136.20				Average	
		point216	216	5,760,882.5	2,285,360.8	141.40				Average	
		point215	215	5,760,951.0	2,285,427.8	140.00				Average	
		point214	214	5,761,010.5	2,285,481.5	140.00					
Los Osos Valley WB 1	12.0	point251	251	5,762,472.0	2,285,071.2	117.20				Average	
		point250	250	5,762,374.0	2,285,132.8	113.70				Average	
		point249	249	5,762,249.0	2,285,169.5	111.90				Average	
		point248	248	5,762,114.5	2,285,187.5	111.10				Average	
		point247	247	5,761,916.5	2,285,208.5	110.10				Average	
		point246	246	5,761,784.5	2,285,219.2	109.40				Average	
		point245	245	5,761,590.5	2,285,236.5	111.50				Average	
		point244	244	5,761,526.5	2,285,250.0	112.50				Average	
		point243	243	5,761,403.5	2,285,288.5	118.10				Average	

		point242	242	5,761,287.5	2,285,346.5	124.70				Average	
		point241	241	5,761,233.0	2,285,382.8	126.30				Average	
		point240	240	5,761,134.0	2,285,464.2	130.20				Average	
		point239	239	5,761,090.5	2,285,510.8	131.60					
Los Osos Valley WB 2	12.0	point325	325	5,761,090.5	2,285,510.8	131.60				Average	
		point324	324	5,760,980.5	2,285,667.2	134.50				Average	
		point260	260	5,760,928.0	2,285,786.5	134.50				Average	
		point259	259	5,760,895.0	2,285,912.5	132.80				Average	
		point258	258	5,760,869.0	2,286,045.8	129.80				Average	
		point257	257	5,760,842.5	2,286,172.5	126.30				Average	
		point256	256	5,760,815.0	2,286,302.0	121.40				Average	
		point255	255	5,760,784.0	2,286,429.5	114.80				Average	
		point254	254	5,760,748.0	2,286,558.8	111.50				Average	
		point253	253	5,760,728.5	2,286,619.8	109.90				Average	
		point252	252	5,760,692.5	2,286,732.0	108.30					
Los Osos Valley WB 3	24.0	point280	280	5,760,692.5	2,286,732.0	108.30				Average	
		point279	279	5,760,615.0	2,286,933.0	108.10				Average	
		point278	278	5,760,588.5	2,286,995.2	110.20				Average	
		point277	277	5,760,537.0	2,287,115.8	109.40				Average	
		point276	276	5,760,479.5	2,287,233.5	111.80				Average	
		point275	275	5,760,436.0	2,287,326.5	112.70				Average	
		point274	274	5,760,379.5	2,287,433.0	112.10				Average	
		point273	273	5,760,320.5	2,287,541.0	113.40				Average	
		point272	272	5,760,255.5	2,287,651.8	115.30				Average	
		point271	271	5,760,182.0	2,287,768.5	114.90				Average	
		point270	270	5,760,111.0	2,287,879.5	115.40				Average	
		point269	269	5,760,050.5	2,287,973.2	116.90				Average	
		point268	268	5,759,981.0	2,288,074.5	117.60				Average	
		point267	267	5,759,917.0	2,288,175.8	117.20				Average	
		point266	266	5,759,849.5	2,288,274.5	117.20				Average	
		point265	265	5,759,785.5	2,288,374.5	117.20				Average	
		point264	264	5,759,729.0	2,288,458.8	117.20				Average	
		point263	263	5,759,671.5	2,288,546.5	117.20					
Los Osos Valley EB 1	12.0	point282	282	5,761,062.0	2,285,483.5	131.60				Average	
		point283	283	5,761,109.0	2,285,436.8	130.20				Average	
		point284	284	5,761,213.5	2,285,351.8	126.30				Average	
		point285	285	5,761,268.0	2,285,315.0	124.70				Average	
		point286	286	5,761,389.5	2,285,253.0	118.10				Average	
		point287	287	5,761,516.0	2,285,213.0	112.50				Average	

		point288	288	5,761,585.5	2,285,200.0	111.50				Average	
		point289	289	5,761,781.5	2,285,181.2	109.40				Average	
		point290	290	5,761,915.0	2,285,167.5	110.10				Average	
		point291	291	5,762,111.5	2,285,151.0	111.30				Average	
		point292	292	5,762,238.5	2,285,134.5	111.90				Average	
		point293	293	5,762,361.0	2,285,100.5	113.70				Average	
		point294	294	5,762,461.5	2,285,038.5	117.20					
Los Osos Valley EB 2	12.0	point329	329	5,760,656.5	2,286,716.8	108.30				Average	
		point328	328	5,760,693.0	2,286,608.8	109.90				Average	
		point327	327	5,760,712.0	2,286,546.0	111.50				Average	
		point326	326	5,760,747.5	2,286,420.5	114.80				Average	
		point295	295	5,760,779.0	2,286,294.5	121.40				Average	
		point296	296	5,760,805.5	2,286,166.5	126.30				Average	
		point297	297	5,760,833.5	2,286,035.0	129.80				Average	
		point298	298	5,760,858.5	2,285,904.8	132.80				Average	
		point299	299	5,760,892.5	2,285,774.8	134.50				Average	
		point300	300	5,760,947.5	2,285,653.2	134.50				Average	
		point301	301	5,761,062.0	2,285,483.5	131.60					
Los Osos Valley EB 3	24.0	point322	322	5,759,627.0	2,288,520.2	117.20				Average	
		point321	321	5,759,684.5	2,288,432.2	117.20				Average	
		point320	320	5,759,741.0	2,288,348.0	117.20				Average	
		point319	319	5,759,809.5	2,288,250.2	117.20				Average	
		point318	318	5,759,880.0	2,288,151.5	117.20				Average	
		point317	317	5,759,949.0	2,288,050.2	117.60				Average	
		point316	316	5,760,021.0	2,287,949.0	116.90				Average	
		point315	315	5,760,080.5	2,287,861.5	115.40				Average	
		point314	314	5,760,151.5	2,287,750.8	114.90				Average	
		point313	313	5,760,225.0	2,287,633.8	115.30				Average	
		point312	312	5,760,287.0	2,287,524.5	113.40				Average	
		point311	311	5,760,348.5	2,287,417.2	112.10				Average	
		point310	310	5,760,403.0	2,287,310.0	112.70				Average	
		point309	309	5,760,445.5	2,287,220.0	111.80				Average	
		point308	308	5,760,503.0	2,287,100.2	109.40				Average	
		point307	307	5,760,554.0	2,286,982.2	110.20				Average	
		point306	306	5,760,579.5	2,286,920.2	108.10				Average	
		point305	305	5,760,656.5	2,286,716.8	108.30					
Calle Joaquin WB	12.0	point344	344	5,760,434.0	2,285,398.0	100.70				Average	
		point345	345	5,760,443.0	2,285,474.0	100.70				Average	
		point346	346	5,760,421.0	2,285,550.0	103.00				Average	

		point347	347	5,760,371.0	2,285,613.8	106.60				Average	
		point348	348	5,760,300.5	2,285,653.5	106.60				Average	
		point349	349	5,760,225.0	2,285,688.5	106.60				Average	
		point350	350	5,760,174.0	2,285,727.5	106.60				Average	
		point351	351	5,760,142.5	2,285,771.5	106.60				Average	
		point352	352	5,760,125.0	2,285,830.2	106.60				Average	
		point353	353	5,760,124.0	2,285,884.2	106.60				Average	
		point354	354	5,760,142.0	2,285,945.0	106.60				Average	
		point355	355	5,760,173.5	2,286,019.0	106.60				Average	
		point356	356	5,760,201.0	2,286,081.2	106.60				Average	
		point357	357	5,760,235.0	2,286,158.8	106.60				Average	
		point358	358	5,760,264.5	2,286,231.5	106.60				Average	
		point359	359	5,760,296.0	2,286,306.0	106.60				Average	
		point360	360	5,760,332.0	2,286,396.0	106.60				Average	
		point361	361	5,760,370.0	2,286,471.8	106.60				Average	
		point362	362	5,760,400.0	2,286,540.5	106.60				Average	
		point363	363	5,760,436.0	2,286,616.0	106.60				Average	
		point364	364	5,760,473.0	2,286,674.5	108.50				Average	
		point365	365	5,760,525.0	2,286,725.8	108.70				Average	
		point366	366	5,760,587.0	2,286,756.8	108.70					
Calle Joaquin EB	12.0	point389	389	5,760,571.5	2,286,798.0	108.70				Average	
		point388	388	5,760,504.0	2,286,752.2	108.70				Average	
		point387	387	5,760,449.0	2,286,699.2	108.50				Average	
		point386	386	5,760,405.0	2,286,630.5	106.60				Average	
		point385	385	5,760,373.0	2,286,553.2	106.60				Average	
		point384	384	5,760,346.0	2,286,482.8	106.60				Average	
		point383	383	5,760,315.0	2,286,402.2	106.60				Average	
		point382	382	5,760,279.0	2,286,312.5	106.60				Average	
		point381	381	5,760,248.0	2,286,238.5	106.60				Average	
		point380	380	5,760,218.5	2,286,165.5	106.60				Average	
		point379	379	5,760,187.5	2,286,086.5	106.60				Average	
		point378	378	5,760,162.5	2,286,023.0	106.60				Average	
		point377	377	5,760,131.0	2,285,949.0	106.60				Average	
		point376	376	5,760,112.5	2,285,886.8	106.60				Average	
		point375	375	5,760,112.0	2,285,829.0	106.60				Average	
		point374	374	5,760,132.0	2,285,766.5	106.60				Average	
		point373	373	5,760,165.0	2,285,719.8	106.60				Average	
		point372	372	5,760,218.5	2,285,678.8	106.60				Average	
		point371	371	5,760,294.0	2,285,643.5	106.60				Average	

		point370	370	5,760,365.0	2,285,603.8	106.60				Average	
		point369	369	5,760,412.0	2,285,545.5	103.00				Average	
		point368	368	5,760,430.5	2,285,473.5	100.70				Average	
		point367	367	5,760,422.0	2,285,400.0	100.70					
US 101 NB Loop On Ramp	12.0	point404	404	5,760,864.0	2,285,801.0	134.50				Average	
		point403	403	5,760,888.5	2,285,642.0	134.50				Average	
		point402	402	5,760,896.5	2,285,576.5	134.50				Average	
		point401	401	5,760,907.0	2,285,512.5	134.00				Average	
		point400	400	5,760,896.0	2,285,451.0	131.20				Average	
		point399	399	5,760,854.5	2,285,407.0	128.90				Average	
		point398	398	5,760,794.5	2,285,391.5	125.30				Average	
		point397	397	5,760,735.5	2,285,410.5	122.00				Average	
		point396	396	5,760,696.5	2,285,459.5	118.80				Average	
		point395	395	5,760,689.5	2,285,521.0	116.40				Average	
		point394	394	5,760,713.0	2,285,581.0	113.20				Average	
		point393	393	5,760,740.0	2,285,642.5	111.50				Average	
		point392	392	5,760,767.0	2,285,702.0	109.90				Average	
		point391	391	5,760,797.0	2,285,761.0	108.30				Average	
		point390	390	5,760,826.0	2,285,821.0	106.60					
US 101 SB Off Ramp 1	12.0	point405	405	5,760,775.5	2,286,074.5	96.80				Average	
		point406	406	5,760,725.5	2,286,036.5	97.80				Average	
		point407	407	5,760,663.5	2,286,017.0	98.40				Average	
		point408	408	5,760,599.5	2,286,019.5	100.10				Average	
		point409	409	5,760,478.5	2,286,068.0	101.70				Average	
		point410	410	5,760,358.0	2,286,122.0	104.90				Average	
		point411	411	5,760,274.0	2,286,158.0	105.30					
US 101 SB Off Ramp 2	12.0	point413	413	5,761,094.5	2,286,574.5	108.30				Average	
		point414	414	5,761,023.5	2,286,462.8	104.90				Average	
		point415	415	5,760,952.5	2,286,351.0	103.30				Average	
		point416	416	5,760,884.5	2,286,239.8	100.00					
US 101 SB On Ramp	12.0	point428	428	5,760,265.0	2,286,136.8	104.90				Average	
		point427	427	5,760,355.5	2,286,097.0	104.50				Average	
		point426	426	5,760,476.5	2,286,041.5	100.10				Average	
		point425	425	5,760,591.5	2,285,982.2	98.40				Average	
		point424	424	5,760,632.5	2,285,935.2	97.80				Average	
		point423	423	5,760,656.0	2,285,876.2	96.10				Average	
		point422	422	5,760,658.0	2,285,813.8	95.10				Average	
		point421	421	5,760,642.5	2,285,751.0	95.10				Average	
		point420	420	5,760,591.5	2,285,630.0	95.10				Average	

		point419	419	5,760,542.5	2,285,507.0	96.80				Average	
		point418	418	5,760,476.0	2,285,320.8	99.10				Average	
		point417	417	5,760,441.0	2,285,191.2	101.70					

LSA Associates, Inc.
Jason Lui

9 October 2006
TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Alternative 6 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
Higuera NB	point147	147	1881	40	93	40	62	35	0	0	0	0
	point118	118	1881	40	93	40	62	35	0	0	0	0
	point117	117	1881	40	93	40	62	35	0	0	0	0
	point116	116	1881	40	93	40	62	35	0	0	0	0
	point115	115	1881	40	93	40	62	35	0	0	0	0
	point114	114	1881	40	93	40	62	35	0	0	0	0
	point113	113	1881	40	93	40	62	35	0	0	0	0
	point112	112	1881	40	93	40	62	35	0	0	0	0
	point111	111	1881	40	93	40	62	35	0	0	0	0
	point110	110	1881	40	93	40	62	35	0	0	0	0
	point109	109	1881	40	93	40	62	35	0	0	0	0
	point108	108	1881	40	93	40	62	35	0	0	0	0
	point107	107	1881	40	93	40	62	35	0	0	0	0
	point106	106	1881	40	93	40	62	35	0	0	0	0
	point105	105	1881	40	93	40	62	35	0	0	0	0
	point104	104	1881	40	93	40	62	35	0	0	0	0
	point103	103	1881	40	93	40	62	35	0	0	0	0
	point102	102	1881	40	93	40	62	35	0	0	0	0
	point101	101	1881	40	93	40	62	35	0	0	0	0
	point100	100	1881	40	93	40	62	35	0	0	0	0
	point99	99	1881	40	93	40	62	35	0	0	0	0
	point98	98	1881	40	93	40	62	35	0	0	0	0
	point97	97	1881	40	93	40	62	35	0	0	0	0

	point96	96	1881	40	93	40	62	35	0	0	0	0
	point95	95	1881	40	93	40	62	35	0	0	0	0
	point94	94	1881	40	93	40	62	35	0	0	0	0
	point93	93	1881	40	93	40	62	35	0	0	0	0
	point92	92										
Higuera SB	point119	119	1881	40	93	40	62	35	0	0	0	0
	point120	120	1881	40	93	40	62	35	0	0	0	0
	point121	121	1881	40	93	40	62	35	0	0	0	0
	point122	122	1881	40	93	40	62	35	0	0	0	0
	point123	123	1881	40	93	40	62	35	0	0	0	0
	point124	124	1881	40	93	40	62	35	0	0	0	0
	point125	125	1881	40	93	40	62	35	0	0	0	0
	point126	126	1881	40	93	40	62	35	0	0	0	0
	point127	127	1881	40	93	40	62	35	0	0	0	0
	point128	128	1881	40	93	40	62	35	0	0	0	0
	point129	129	1881	40	93	40	62	35	0	0	0	0
	point130	130	1881	40	93	40	62	35	0	0	0	0
	point131	131	1881	40	93	40	62	35	0	0	0	0
	point132	132	1881	40	93	40	62	35	0	0	0	0
	point133	133	1881	40	93	40	62	35	0	0	0	0
	point134	134	1881	40	93	40	62	35	0	0	0	0
	point135	135	1881	40	93	40	62	35	0	0	0	0
	point136	136	1881	40	93	40	62	35	0	0	0	0
	point137	137	1881	40	93	40	62	35	0	0	0	0
	point138	138	1881	40	93	40	62	35	0	0	0	0
	point139	139	1881	40	93	40	62	35	0	0	0	0
	point140	140	1881	40	93	40	62	35	0	0	0	0
	point141	141	1881	40	93	40	62	35	0	0	0	0
	point142	142	1881	40	93	40	62	35	0	0	0	0
	point143	143	1881	40	93	40	62	35	0	0	0	0
	point144	144	1881	40	93	40	62	35	0	0	0	0
	point145	145	1881	40	93	40	62	35	0	0	0	0
	point146	146										
US 101 NB 1	point238	238	1812	65	71	65	67	60	0	0	0	0
	point159	159	1812	65	71	65	67	60	0	0	0	0

	point158	158	1812	65	71	65	67	60	0	0	0	0
	point157	157	1812	65	71	65	67	60	0	0	0	0
	point156	156	1812	65	71	65	67	60	0	0	0	0
	point155	155	1812	65	71	65	67	60	0	0	0	0
	point154	154	1812	65	71	65	67	60	0	0	0	0
	point153	153	1812	65	71	65	67	60	0	0	0	0
	point152	152	1812	65	71	65	67	60	0	0	0	0
	point151	151	1812	65	71	65	67	60	0	0	0	0
	point150	150	1812	65	71	65	67	60	0	0	0	0
	point149	149	1812	65	71	65	67	60	0	0	0	0
	point148	148										
US 101 NB 2	point171	171	1812	65	71	65	67	60	0	0	0	0
	point170	170	1812	65	71	65	67	60	0	0	0	0
	point169	169	1812	65	71	65	67	60	0	0	0	0
	point168	168	1812	65	71	65	67	60	0	0	0	0
	point167	167	1812	65	71	65	67	60	0	0	0	0
	point166	166	1812	65	71	65	67	60	0	0	0	0
	point165	165	1812	65	71	65	67	60	0	0	0	0
	point164	164	1812	65	71	65	67	60	0	0	0	0
	point163	163	1812	65	71	65	67	60	0	0	0	0
	point162	162	1812	65	71	65	67	60	0	0	0	0
	point161	161	1812	65	71	65	67	60	0	0	0	0
	point160	160										
US 101 SB 1	point173	173	1812	65	71	65	67	60	0	0	0	0
	point174	174	1812	65	71	65	67	60	0	0	0	0
	point175	175	1812	65	71	65	67	60	0	0	0	0
	point176	176	1812	65	71	65	67	60	0	0	0	0
	point177	177	1812	65	71	65	67	60	0	0	0	0
	point178	178	1812	65	71	65	67	60	0	0	0	0
	point179	179	1812	65	71	65	67	60	0	0	0	0
	point180	180	1812	65	71	65	67	60	0	0	0	0
	point181	181	1812	65	71	65	67	60	0	0	0	0
	point182	182	1812	65	71	65	67	60	0	0	0	0
	point183	183	1812	65	71	65	67	60	0	0	0	0
	point184	184	1812	65	71	65	67	60	0	0	0	0

	point237	237										
US 101 SB 2	point186	186	1812	65	71	65	67	60	0	0	0	0
	point187	187	1812	65	71	65	67	60	0	0	0	0
	point188	188	1812	65	71	65	67	60	0	0	0	0
	point189	189	1812	65	71	65	67	60	0	0	0	0
	point190	190	1812	65	71	65	67	60	0	0	0	0
	point191	191	1812	65	71	65	67	60	0	0	0	0
	point192	192	1812	65	71	65	67	60	0	0	0	0
	point193	193	1812	65	71	65	67	60	0	0	0	0
	point194	194	1812	65	71	65	67	60	0	0	0	0
	point195	195	1812	65	71	65	67	60	0	0	0	0
	point196	196	1812	65	71	65	67	60	0	0	0	0
	point197	197										
US 101 NB On Ramp	point211	211	167	45	7	45	6	40	0	0	0	0
	point210	210	167	45	7	45	6	40	0	0	0	0
	point209	209	167	45	7	45	6	40	0	0	0	0
	point208	208	167	45	7	45	6	40	0	0	0	0
	point207	207	167	45	7	45	6	40	0	0	0	0
	point206	206	167	45	7	45	6	40	0	0	0	0
	point205	205	167	45	7	45	6	40	0	0	0	0
	point204	204	167	45	7	45	6	40	0	0	0	0
	point203	203	167	45	7	45	6	40	0	0	0	0
	point202	202	167	45	7	45	6	40	0	0	0	0
	point201	201	167	45	7	45	6	40	0	0	0	0
	point200	200	167	45	7	45	6	40	0	0	0	0
	point199	199										
US 101 NB Off Ramp	point230	230	525	45	20	45	20	40	0	0	0	0
	point229	229	525	45	20	45	20	40	0	0	0	0
	point228	228	525	45	20	45	20	40	0	0	0	0
	point227	227	525	45	20	45	20	40	0	0	0	0
	point226	226	525	45	20	45	20	40	0	0	0	0
	point225	225	525	45	20	45	20	40	0	0	0	0
	point224	224	525	45	20	45	20	40	0	0	0	0
	point223	223	525	45	20	45	20	40	0	0	0	0
	point222	222	525	45	20	45	20	40	0	0	0	0

	point221	221	525	45	20	45	20	40	0	0	0	0
	point217	217	525	45	20	45	20	40	0	0	0	0
	point216	216	525	45	20	45	20	40	0	0	0	0
	point215	215	525	45	20	45	20	40	0	0	0	0
	point214	214										
Los Osos Valley WB 1	point251	251	1509	40	52	40	24	35	0	0	0	0
	point250	250	1509	40	52	40	24	35	0	0	0	0
	point249	249	1509	40	52	40	24	35	0	0	0	0
	point248	248	1509	40	52	40	24	35	0	0	0	0
	point247	247	1509	40	52	40	24	35	0	0	0	0
	point246	246	1509	40	52	40	24	35	0	0	0	0
	point245	245	1509	40	52	40	24	35	0	0	0	0
	point244	244	1509	40	52	40	24	35	0	0	0	0
	point243	243	1509	40	52	40	24	35	0	0	0	0
	point242	242	1509	40	52	40	24	35	0	0	0	0
	point241	241	1509	40	52	40	24	35	0	0	0	0
	point240	240	1509	40	52	40	24	35	0	0	0	0
	point239	239										
Los Osos Valley WB 2	point325	325	1747	40	61	40	28	35	0	0	0	0
	point324	324	1747	40	61	40	28	35	0	0	0	0
	point260	260	1747	40	61	40	28	35	0	0	0	0
	point259	259	1747	40	61	40	28	35	0	0	0	0
	point258	258	1747	40	61	40	28	35	0	0	0	0
	point257	257	1747	40	61	40	28	35	0	0	0	0
	point256	256	1747	40	61	40	28	35	0	0	0	0
	point255	255	1747	40	61	40	28	35	0	0	0	0
	point254	254	1747	40	61	40	28	35	0	0	0	0
	point253	253	1747	40	61	40	28	35	0	0	0	0
	point252	252										
Los Osos Valley WB 3	point280	280	2072	40	72	40	33	35	0	0	0	0
	point279	279	2072	40	72	40	33	35	0	0	0	0
	point278	278	2072	40	72	40	33	35	0	0	0	0
	point277	277	2072	40	72	40	33	35	0	0	0	0
	point276	276	2072	40	72	40	33	35	0	0	0	0
	point275	275	2072	40	72	40	33	35	0	0	0	0

	point274	274	2072	40	72	40	33	35	0	0	0	0
	point273	273	2072	40	72	40	33	35	0	0	0	0
	point272	272	2072	40	72	40	33	35	0	0	0	0
	point271	271	2072	40	72	40	33	35	0	0	0	0
	point270	270	2072	40	72	40	33	35	0	0	0	0
	point269	269	2072	40	72	40	33	35	0	0	0	0
	point268	268	2072	40	72	40	33	35	0	0	0	0
	point267	267	2072	40	72	40	33	35	0	0	0	0
	point266	266	2072	40	72	40	33	35	0	0	0	0
	point265	265	2072	40	72	40	33	35	0	0	0	0
	point264	264	2072	40	72	40	33	35	0	0	0	0
	point263	263										
Los Osos Valley EB 1	point282	282	1509	40	52	40	24	35	0	0	0	0
	point283	283	1509	40	52	40	24	35	0	0	0	0
	point284	284	1509	40	52	40	24	35	0	0	0	0
	point285	285	1509	40	52	40	24	35	0	0	0	0
	point286	286	1509	40	52	40	24	35	0	0	0	0
	point287	287	1509	40	52	40	24	35	0	0	0	0
	point288	288	1509	40	52	40	24	35	0	0	0	0
	point289	289	1509	40	52	40	24	35	0	0	0	0
	point290	290	1509	40	52	40	24	35	0	0	0	0
	point291	291	1509	40	52	40	24	35	0	0	0	0
	point292	292	1509	40	52	40	24	35	0	0	0	0
	point293	293	1509	40	52	40	24	35	0	0	0	0
	point294	294										
Los Osos Valley EB 2	point329	329	1747	40	61	40	28	35	0	0	0	0
	point328	328	1747	40	61	40	28	35	0	0	0	0
	point327	327	1747	40	61	40	28	35	0	0	0	0
	point326	326	1747	40	61	40	28	35	0	0	0	0
	point295	295	1747	40	61	40	28	35	0	0	0	0
	point296	296	1747	40	61	40	28	35	0	0	0	0
	point297	297	1747	40	61	40	28	35	0	0	0	0
	point298	298	1747	40	61	40	28	35	0	0	0	0
	point299	299	1747	40	61	40	28	35	0	0	0	0
	point300	300	1747	40	61	40	28	35	0	0	0	0

	point301	301										
Los Osos Valley EB 3	point322	322	2072	40	72	40	33	35	0	0	0	0
	point321	321	2072	40	72	40	33	35	0	0	0	0
	point320	320	2072	40	72	40	33	35	0	0	0	0
	point319	319	2072	40	72	40	33	35	0	0	0	0
	point318	318	2072	40	72	40	33	35	0	0	0	0
	point317	317	2072	40	72	40	33	35	0	0	0	0
	point316	316	2072	40	72	40	33	35	0	0	0	0
	point315	315	2072	40	72	40	33	35	0	0	0	0
	point314	314	2072	40	72	40	33	35	0	0	0	0
	point313	313	2072	40	72	40	33	35	0	0	0	0
	point312	312	2072	40	72	40	33	35	0	0	0	0
	point311	311	2072	40	72	40	33	35	0	0	0	0
	point310	310	2072	40	72	40	33	35	0	0	0	0
	point309	309	2072	40	72	40	33	35	0	0	0	0
	point308	308	2072	40	72	40	33	35	0	0	0	0
	point307	307	2072	40	72	40	33	35	0	0	0	0
	point306	306	2072	40	72	40	33	35	0	0	0	0
	point305	305										
Calle Joaquin WB	point344	344	824	35	41	35	27	30	0	0	0	0
	point345	345	824	35	41	35	27	30	0	0	0	0
	point346	346	824	35	41	35	27	30	0	0	0	0
	point347	347	824	35	41	35	27	30	0	0	0	0
	point348	348	824	35	41	35	27	30	0	0	0	0
	point349	349	824	35	41	35	27	30	0	0	0	0
	point350	350	824	35	41	35	27	30	0	0	0	0
	point351	351	824	35	41	35	27	30	0	0	0	0
	point352	352	824	35	41	35	27	30	0	0	0	0
	point353	353	824	35	41	35	27	30	0	0	0	0
	point354	354	824	35	41	35	27	30	0	0	0	0
	point355	355	824	35	41	35	27	30	0	0	0	0
	point356	356	824	35	41	35	27	30	0	0	0	0
	point357	357	824	35	41	35	27	30	0	0	0	0
	point358	358	824	35	41	35	27	30	0	0	0	0
	point359	359	824	35	41	35	27	30	0	0	0	0

	point360	360	824	35	41	35	27	30	0	0	0	0
	point361	361	824	35	41	35	27	30	0	0	0	0
	point362	362	824	35	41	35	27	30	0	0	0	0
	point363	363	824	35	41	35	27	30	0	0	0	0
	point364	364	824	35	41	35	27	30	0	0	0	0
	point365	365	824	35	41	35	27	30	0	0	0	0
	point366	366										
Calle Joaquin EB	point389	389	824	35	41	35	27	30	0	0	0	0
	point388	388	824	35	41	35	27	30	0	0	0	0
	point387	387	824	35	41	35	27	30	0	0	0	0
	point386	386	824	35	41	35	27	30	0	0	0	0
	point385	385	824	35	41	35	27	30	0	0	0	0
	point384	384	824	35	41	35	27	30	0	0	0	0
	point383	383	824	35	41	35	27	30	0	0	0	0
	point382	382	824	35	41	35	27	30	0	0	0	0
	point381	381	824	35	41	35	27	30	0	0	0	0
	point380	380	824	35	41	35	27	30	0	0	0	0
	point379	379	824	35	41	35	27	30	0	0	0	0
	point378	378	824	35	41	35	27	30	0	0	0	0
	point377	377	824	35	41	35	27	30	0	0	0	0
	point376	376	824	35	41	35	27	30	0	0	0	0
	point375	375	824	35	41	35	27	30	0	0	0	0
	point374	374	824	35	41	35	27	30	0	0	0	0
	point373	373	824	35	41	35	27	30	0	0	0	0
	point372	372	824	35	41	35	27	30	0	0	0	0
	point371	371	824	35	41	35	27	30	0	0	0	0
	point370	370	824	35	41	35	27	30	0	0	0	0
	point369	369	824	35	41	35	27	30	0	0	0	0
	point368	368	824	35	41	35	27	30	0	0	0	0
	point367	367										
US 101 NB Loop On Ramp	point404	404	474	45	18	45	181	40	0	0	0	0
	point403	403	474	45	18	45	181	40	0	0	0	0
	point402	402	474	45	18	45	181	40	0	0	0	0
	point401	401	474	45	18	45	181	40	0	0	0	0
	point400	400	474	45	18	45	181	40	0	0	0	0

	point399	399	474	45	18	45	181	40	0	0	0	0
	point398	398	474	45	18	45	181	40	0	0	0	0
	point397	397	474	45	18	45	181	40	0	0	0	0
	point396	396	474	45	18	45	181	40	0	0	0	0
	point395	395	474	45	18	45	181	40	0	0	0	0
	point394	394	474	45	18	45	181	40	0	0	0	0
	point393	393	474	45	18	45	181	40	0	0	0	0
	point392	392	474	45	18	45	181	40	0	0	0	0
	point391	391	474	45	18	45	181	40	0	0	0	0
	point390	390										
US 101 SB Off Ramp 1	point405	405	771	45	30	45	29	40	0	0	0	0
	point406	406	771	45	30	45	29	40	0	0	0	0
	point407	407	771	45	30	45	29	40	0	0	0	0
	point408	408	771	45	30	45	29	40	0	0	0	0
	point409	409	771	45	30	45	29	40	0	0	0	0
	point410	410	771	45	30	45	29	40	0	0	0	0
	point411	411										
US 101 SB Off Ramp 2	point413	413	771	45	30	45	29	40	0	0	0	0
	point414	414	771	45	30	45	29	40	0	0	0	0
	point415	415	771	45	30	45	29	40	0	0	0	0
	point416	416										
US 101 SB On Ramp	point428	428	781	45	30	45	29	40	0	0	0	0
	point427	427	781	45	30	45	29	40	0	0	0	0
	point426	426	781	45	30	45	29	40	0	0	0	0
	point425	425	781	45	30	45	29	40	0	0	0	0
	point424	424	781	45	30	45	29	40	0	0	0	0
	point423	423	781	45	30	45	29	40	0	0	0	0
	point422	422	781	45	30	45	29	40	0	0	0	0
	point421	421	781	45	30	45	29	40	0	0	0	0
	point420	420	781	45	30	45	29	40	0	0	0	0
	point419	419	781	45	30	45	29	40	0	0	0	0
	point418	418	781	45	30	45	29	40	0	0	0	0
	point417	417										

LSA Associates, Inc.
Jason Lui

9 October 2006
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Alternative 6 Conditions

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
R-1	1	1	5,760,196.0	2,287,871.8	115.40	4.92	0.00	66	12.0	8.0	
R-2	2	1	5,760,409.5	2,287,532.8	113.40	4.92	0.00	66	12.0	8.0	
R-3	3	1	5,760,479.0	2,287,354.5	111.40	4.92	0.00	66	12.0	8.0	
R-4	4	1	5,760,585.5	2,287,158.8	109.60	4.92	0.00	66	12.0	8.0	
R-5	5	1	5,760,689.0	2,286,975.8	108.90	4.92	0.00	66	12.0	8.0	
R-6	6	1	5,760,773.5	2,286,683.8	108.10	4.92	0.00	66	12.0	8.0	
R-7	7	1	5,761,625.0	2,285,742.5	111.40	4.92	0.00	66	12.0	8.0	
R-8	8	1	5,761,715.5	2,285,903.0	111.40	4.92	0.00	66	12.0	8.0	
R-9	9	1	5,761,926.5	2,285,983.5	111.40	4.92	0.00	66	12.0	8.0	
R-10	10	1	5,761,821.5	2,286,087.0	111.40	4.92	0.00	66	12.0	8.0	
R-11	11	1	5,761,977.0	2,286,242.5	111.40	4.92	0.00	66	12.0	8.0	
R-12	12	1	5,762,050.0	2,286,315.0	111.40	4.92	0.00	66	12.0	8.0	
R-13	13	1	5,761,582.5	2,285,059.5	110.00	4.92	0.00	66	12.0	8.0	
R-14	14	1	5,761,627.5	2,285,058.5	110.00	4.92	0.00	66	12.0	8.0	
R-15	15	1	5,761,593.5	2,285,021.8	110.00	4.92	0.00	66	12.0	8.0	
R-16	16	1	5,762,173.5	2,285,044.5	120.00	4.92	0.00	66	12.0	8.0	
R-17	17	1	5,762,288.0	2,284,958.8	117.90	4.92	0.00	66	12.0	8.0	
R-18	18	1	5,761,669.0	2,285,092.0	108.60	4.92	0.00	66	12.0	8.0	
R-19	19	1	5,761,658.0	2,285,067.5	108.60	4.92	0.00	66	12.0	8.0	
R-20	20	1	5,761,854.0	2,285,084.8	110.00	4.92	0.00	66	12.0	8.0	
R-21	21	1	5,761,905.0	2,285,017.2	110.00	4.92	0.00	66	12.0	8.0	
R-22	22	1	5,762,099.5	2,284,985.8	120.00	4.92	0.00	66	12.0	8.0	

R-23	23	1	5,761,781.0	2,285,355.0	110.00	4.92	0.00	66	12.0	8.0	
R-24	24	1	5,761,912.0	2,285,355.8	110.00	4.92	0.00	66	12.0	8.0	
R-25	25	1	5,762,184.0	2,285,330.0	111.30	4.92	0.00	66	12.0	8.0	
R-26	26	1	5,762,230.0	2,285,316.2	111.50	4.92	0.00	66	12.0	8.0	
R-27	27	1	5,762,297.0	2,285,267.2	112.40	4.92	0.00	66	12.0	8.0	
R-28	28	1	5,762,431.0	2,285,255.0	114.70	4.92	0.00	66	12.0	8.0	
R-29	29	1	5,762,516.0	2,285,225.0	115.00	4.92	0.00	66	12.0	8.0	Y
R-30	30	1	5,761,852.5	2,285,383.2	110.00	4.92	0.00	66	12.0	8.0	
R-31	31	1	5,761,916.5	2,285,451.8	111.00	4.92	0.00	66	12.0	8.0	
R-32	32	1	5,762,042.5	2,285,375.5	110.00	4.92	0.00	66	12.0	8.0	
R-33	33	1	5,762,231.5	2,285,460.8	111.30	4.92	0.00	66	12.0	8.0	
R-34	34	1	5,762,284.0	2,285,370.8	111.50	4.92	0.00	66	12.0	8.0	
R-35	35	1	5,762,416.5	2,285,328.8	111.50	4.92	0.00	66	12.0	8.0	
R-36	36	1	5,762,499.5	2,285,314.8	114.70	4.92	0.00	66	12.0	8.0	
R-37	37	1	5,762,545.0	2,285,255.2	115.00	4.92	0.00	66	12.0	8.0	Y
R-38	39	1	5,760,381.0	2,285,923.8	110.00	4.92	0.00	66	12.0	8.0	Y

LSA Associates, Inc.
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9 October 2006
TNM 2.5

INPUT: BARRIERS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Alternative 6 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				
Home 1	W	0.00	99.99	0.00				0.00	point5	5	5,761,502.0	2,285,073.5	110.00	15.00	0.00	0	0		
									point4	4	5,761,463.0	2,285,021.0	110.00	15.00	0.00	0	0		
									point3	3	5,761,487.0	2,284,998.0	110.00	15.00	0.00	0	0		
									point2	2	5,761,530.0	2,285,051.8	110.00	15.00	0.00	0	0		
									point1	1	5,761,502.0	2,285,073.5	110.00	15.00					
Home 2	W	0.00	99.99	0.00				0.00	point10	10	5,761,538.5	2,285,046.0	110.00	15.00	0.00	0	0		
									point9	9	5,761,503.5	2,285,001.0	110.00	15.00	0.00	0	0		
									point8	8	5,761,529.5	2,284,985.5	110.00	15.00	0.00	0	0		
									point7	7	5,761,561.0	2,285,028.0	110.00	15.00	0.00	0	0		
									point6	6	5,761,538.5	2,285,046.0	110.00	15.00					
Home 3	W	0.00	99.99	0.00				0.00	point15	15	5,761,570.5	2,285,017.8	110.00	15.00	0.00	0	0		
									point14	14	5,761,538.0	2,284,979.8	110.00	15.00	0.00	0	0		
									point13	13	5,761,569.0	2,284,958.5	110.00	15.00	0.00	0	0		
									point12	12	5,761,598.0	2,284,998.5	110.00	15.00	0.00	0	0		
									point11	11	5,761,570.5	2,285,017.8	110.00	15.00					
Home 4	W	0.00	99.99	0.00				0.00	point21	21	5,761,599.0	2,284,989.5	110.00	15.00	0.00	0	0		
									point20	20	5,761,568.5	2,284,949.5	110.00	15.00	0.00	0	0		
									point19	19	5,761,597.0	2,284,929.5	110.00	15.00	0.00	0	0		
									point18	18	5,761,626.5	2,284,970.8	110.00	15.00	0.00	0	0		
									point17	17	5,761,599.0	2,284,989.5	110.00	15.00					
Home 5	W	0.00	99.99	0.00				0.00	point26	26	5,761,666.5	2,285,130.5	110.00	15.00	0.00	0	0		
									point25	25	5,761,733.0	2,285,125.0	110.00	15.00	0.00	0	0		
									point24	24	5,761,732.5	2,285,086.0	110.00	15.00	0.00	0	0		
									point23	23	5,761,664.0	2,285,095.8	110.00	15.00	0.00	0	0		
									point22	22	5,761,666.5	2,285,130.5	110.00	15.00					
Home 6	W	0.00	99.99	0.00				0.00	point31	31	5,761,663.0	2,285,085.5	110.00	15.00	0.00	0	0		
									point30	30	5,761,729.5	2,285,079.2	110.00	15.00	0.00	0	0		
									point29	29	5,761,727.5	2,285,051.8	110.00	15.00	0.00	0	0		
									point28	28	5,761,661.0	2,285,056.8	110.00	15.00	0.00	0	0		
									point27	27	5,761,663.0	2,285,085.5	110.00	15.00					
Home 7	W	0.00	99.99	0.00				0.00	point36	36	5,761,797.5	2,285,116.5	110.00	15.00	0.00	0	0		
									point35	35	5,761,857.5	2,285,110.2	110.00	15.00	0.00	0	0		
									point34	34	5,761,856.0	2,285,089.0	110.00	15.00	0.00	0	0		
									point33	33	5,761,794.0	2,285,093.8	110.00	15.00	0.00	0	0		
									point32	32	5,761,797.5	2,285,116.5	110.00	15.00					

Home 8	W	0.00	99.99	0.00				0.00	point41	41	5,761,793.0	2,285,079.2	110.00	15.00	0.00	0	0		
									point40	40	5,761,860.0	2,285,073.8	110.00	15.00	0.00	0	0		
									point39	39	5,761,858.0	2,285,047.5	110.00	15.00	0.00	0	0		
									point38	38	5,761,790.0	2,285,052.0	110.00	15.00	0.00	0	0		
									point37	37	5,761,793.0	2,285,079.2	110.00	15.00					
Home 9	W	0.00	99.99	0.00				0.00	point46	46	5,761,886.0	2,285,087.0	110.00	15.00	0.00	0	0		
									point45	45	5,761,920.5	2,285,083.2	110.00	15.00	0.00	0	0		
									point44	44	5,761,917.5	2,285,035.0	110.00	15.00	0.00	0	0		
									point43	43	5,761,880.5	2,285,038.5	110.00	15.00	0.00	0	0		
									point42	42	5,761,886.0	2,285,087.0	110.00	15.00					
Home 10	W	0.00	99.99	0.00				0.00	point51	51	5,761,925.5	2,285,066.5	110.00	15.00	0.00	0	0		
									point50	50	5,761,922.5	2,285,025.0	110.00	15.00	0.00	0	0		
									point49	49	5,761,959.5	2,285,018.8	110.00	15.00	0.00	0	0		
									point48	48	5,761,963.5	2,285,060.2	110.00	15.00	0.00	0	0		
									point47	47	5,761,925.5	2,285,066.5	110.00	15.00					
Home 11	W	0.00	99.99	0.00				0.00	point58	58	5,762,115.5	2,285,030.2	120.00	15.00	0.00	0	0		
									point57	57	5,762,132.5	2,285,060.5	120.00	15.00	0.00	0	0		
									point56	56	5,762,177.5	2,285,038.0	120.00	15.00	0.00	0	0		
									point55	55	5,762,186.5	2,285,059.0	120.00	15.00	0.00	0	0		
									point54	54	5,762,208.5	2,285,048.8	120.00	15.00	0.00	0	0		
									point53	53	5,762,169.5	2,284,996.2	120.00	15.00	0.00	0	0		
									point52	52	5,762,115.5	2,285,030.2	120.00	15.00					
Home 12	W	0.00	99.99	0.00				0.00	point63	63	5,762,086.0	2,285,000.8	120.00	15.00	0.00	0	0		
									point62	62	5,762,134.0	2,284,974.0	120.00	15.00	0.00	0	0		
									point61	61	5,762,145.5	2,284,993.2	120.00	15.00	0.00	0	0		
									point60	60	5,762,099.5	2,285,020.2	120.00	15.00	0.00	0	0		
									point59	59	5,762,086.0	2,285,000.8	120.00	15.00					
Daycare	W	0.00	99.99	0.00				0.00	point68	68	5,762,285.5	2,285,065.8	117.90	15.00	0.00	0	0		
									point67	67	5,762,265.5	2,285,034.2	117.90	15.00	0.00	0	0		
									point66	66	5,762,375.5	2,284,966.0	117.90	15.00	0.00	0	0		
									point65	65	5,762,398.5	2,285,011.0	117.90	15.00	0.00	0	0		
									point64	64	5,762,285.5	2,285,065.8	117.90	15.00					
Home 14	W	0.00	99.99	0.00				0.00	point73	73	5,761,776.0	2,285,408.5	110.00	15.00	0.00	0	0		
									point72	72	5,761,823.5	2,285,372.2	110.00	15.00	0.00	0	0		
									point71	71	5,761,810.5	2,285,355.5	110.00	15.00	0.00	0	0		
									point70	70	5,761,763.5	2,285,391.5	110.00	15.00	0.00	0	0		
									point69	69	5,761,776.0	2,285,408.5	110.00	15.00					
Home 15	W	0.00	99.99	0.00				0.00	point78	78	5,761,852.0	2,285,345.8	110.00	15.00	0.00	0	0		
									point77	77	5,761,882.0	2,285,342.8	110.00	15.00	0.00	0	0		
									point76	76	5,761,878.5	2,285,281.8	110.00	15.00	0.00	0	0		
									point75	75	5,761,850.5	2,285,284.5	110.00	15.00	0.00	0	0		
									point74	74	5,761,852.0	2,285,345.8	110.00	15.00					
Home 16	W	0.00	99.99	0.00				0.00	point83	83	5,761,896.5	2,285,345.8	110.00	15.00	0.00	0	0		
									point82	82	5,761,891.0	2,285,285.0	110.00	15.00	0.00	0	0		
									point81	81	5,761,924.0	2,285,282.0	110.00	15.00	0.00	0	0		
									point80	80	5,761,929.0	2,285,342.5	110.00	15.00	0.00	0	0		
									point79	79	5,761,896.5	2,285,345.8	110.00	15.00					
Home 17	W	0.00	99.99	0.00				0.00	point88	88	5,761,931.0	2,285,295.2	110.00	15.00	0.00	0	0		
									point87	87	5,761,937.0	2,285,357.0	110.00	15.00	0.00	0	0		

									point86	86	5,761,955.0	2,285,355.5	110.00	15.00	0.00	0	0		
									point85	85	5,761,951.0	2,285,293.5	110.00	15.00	0.00	0	0		
									point84	84	5,761,931.0	2,285,295.2	110.00	15.00					
Home 18	W	0.00	99.99	0.00				0.00	point93	93	5,762,139.5	2,285,292.5	111.30	15.00	0.00	0	0		
									point92	92	5,762,159.0	2,285,283.8	111.30	15.00	0.00	0	0		
									point91	91	5,762,184.5	2,285,343.5	111.30	15.00	0.00	0	0		
									point90	90	5,762,164.0	2,285,353.5	111.30	15.00	0.00	0	0		
									point89	89	5,762,139.5	2,285,292.5	111.30	15.00					
Home 19	W	0.00	99.99	0.00				0.00	point98	98	5,762,167.0	2,285,279.5	111.30	15.00	0.00	0	0		
									point97	97	5,762,189.0	2,285,329.5	111.30	15.00	0.00	0	0		
									point96	96	5,762,218.0	2,285,317.2	111.30	15.00	0.00	0	0		
									point95	95	5,762,196.5	2,285,268.2	111.30	15.00	0.00	0	0		
									point94	94	5,762,167.0	2,285,279.5	111.30	15.00					
Home 20	W	0.00	99.99	0.00				0.00	point103	103	5,762,213.5	2,285,260.5	111.50	15.00	0.00	0	0		
									point102	102	5,762,236.5	2,285,320.8	111.50	15.00	0.00	0	0		
									point101	101	5,762,258.5	2,285,310.8	111.50	15.00	0.00	0	0		
									point100	100	5,762,233.0	2,285,256.5	111.50	15.00	0.00	0	0		
									point99	99	5,762,213.5	2,285,260.5	111.50	15.00					
Home 21	W	0.00	99.99	0.00				0.00	point108	108	5,762,240.0	2,285,256.0	111.50	15.00	0.00	0	0		
									point107	107	5,762,264.0	2,285,310.8	111.50	15.00	0.00	0	0		
									point106	106	5,762,284.5	2,285,301.5	111.50	15.00	0.00	0	0		
									point105	105	5,762,265.0	2,285,246.8	111.50	15.00	0.00	0	0		
									point104	104	5,762,240.0	2,285,256.0	111.50	15.00					
Home 22	W	0.00	99.99	0.00				0.00	point113	113	5,762,292.5	2,285,240.5	112.40	15.00	0.00	0	0		
									point112	112	5,762,315.5	2,285,290.0	112.40	15.00	0.00	0	0		
									point111	111	5,762,336.0	2,285,280.0	112.40	15.00	0.00	0	0		
									point110	110	5,762,317.5	2,285,233.5	112.40	15.00	0.00	0	0		
									point109	109	5,762,292.5	2,285,240.5	112.40	15.00					
Home 23	W	0.00	99.99	0.00				0.00	point118	118	5,762,342.5	2,285,221.8	113.00	15.00	0.00	0	0		
									point117	117	5,762,369.5	2,285,277.0	113.00	15.00	0.00	0	0		
									point116	116	5,762,400.5	2,285,266.0	113.00	15.00	0.00	0	0		
									point115	115	5,762,377.0	2,285,210.0	113.00	15.00	0.00	0	0		
									point114	114	5,762,342.5	2,285,221.8	113.00	15.00					
Home 24	W	0.00	99.99	0.00				0.00	point123	123	5,762,381.5	2,285,204.8	114.70	15.00	0.00	0	0		
									point122	122	5,762,403.0	2,285,255.8	114.70	15.00	0.00	0	0		
									point121	121	5,762,423.0	2,285,247.8	114.70	15.00	0.00	0	0		
									point120	120	5,762,400.5	2,285,197.8	114.70	15.00	0.00	0	0		
									point119	119	5,762,381.5	2,285,204.8	114.70	15.00					
Home 25	W	0.00	99.99	0.00				0.00	point128	128	5,762,426.0	2,285,185.8	115.00	15.00	0.00	0	0		
									point127	127	5,762,448.5	2,285,241.5	115.00	15.00	0.00	0	0		
									point126	126	5,762,476.0	2,285,231.0	115.00	15.00	0.00	0	0		
									point125	125	5,762,448.5	2,285,176.5	115.00	15.00	0.00	0	0		
									point124	124	5,762,426.0	2,285,185.8	115.00	15.00					
Home 26	W	0.00	99.99	0.00				0.00	point133	133	5,762,454.5	2,285,172.5	115.00	15.00	0.00	0	0		
									point132	132	5,762,480.5	2,285,231.5	115.00	15.00	0.00	0	0		
									point131	131	5,762,514.0	2,285,216.8	115.00	15.00	0.00	0	0		
									point130	130	5,762,492.5	2,285,160.5	115.00	15.00	0.00	0	0		
									point129	129	5,762,454.5	2,285,172.5	115.00	15.00					
Home 27	W	0.00	99.99	0.00				0.00	point138	138	5,761,915.0	2,285,445.5	110.00	15.00	0.00	0	0		

									point137	137	5,761,946.5	2,285,486.5	110.00	15.00	0.00	0	0		
									point136	136	5,761,965.0	2,285,471.5	110.00	15.00	0.00	0	0		
									point135	135	5,761,933.5	2,285,431.8	110.00	15.00	0.00	0	0		
									point134	134	5,761,915.0	2,285,445.5	110.00	15.00					
Home 28	W	0.00	99.99	0.00				0.00	point143	143	5,761,879.0	2,285,477.0	110.00	15.00	0.00	0	0		
									point142	142	5,761,903.0	2,285,509.0	110.00	15.00	0.00	0	0		
									point141	141	5,761,931.5	2,285,486.0	110.00	15.00	0.00	0	0		
									point140	140	5,761,904.5	2,285,454.8	110.00	15.00	0.00	0	0		
									point139	139	5,761,879.0	2,285,477.0	110.00	15.00					
Home 29	W	0.00	99.99	0.00				0.00	point148	148	5,761,980.0	2,285,401.5	110.00	15.00	0.00	0	0		
									point147	147	5,762,002.5	2,285,429.0	110.00	15.00	0.00	0	0		
									point146	146	5,762,039.5	2,285,401.2	110.00	15.00	0.00	0	0		
									point145	145	5,762,021.0	2,285,376.2	110.00	15.00	0.00	0	0		
									point144	144	5,761,980.0	2,285,401.5	110.00	15.00					
Pool House	W	0.00	99.99	0.00				0.00	point154	154	5,762,176.0	2,285,471.8	111.30	15.00	0.00	0	0		
									point153	153	5,762,211.0	2,285,472.0	111.30	15.00	0.00	0	0		
									point152	152	5,762,210.5	2,285,451.8	111.30	15.00	0.00	0	0		
									point151	151	5,762,172.5	2,285,455.0	111.30	15.00	0.00	0	0		
									point150	150	5,762,176.0	2,285,471.8	111.30	15.00					
Home 30	W	0.00	99.99	0.00				0.00	point159	159	5,762,277.0	2,285,379.8	111.50	15.00	0.00	0	0		
									point158	158	5,762,321.0	2,285,358.2	111.50	15.00	0.00	0	0		
									point157	157	5,762,330.5	2,285,381.0	111.50	15.00	0.00	0	0		
									point156	156	5,762,288.5	2,285,399.0	111.50	15.00	0.00	0	0		
									point155	155	5,762,277.0	2,285,379.8	111.50	15.00					
Home 31	W	0.00	99.99	0.00				0.00	point164	164	5,762,387.5	2,285,346.5	111.50	15.00	0.00	0	0		
									point163	163	5,762,407.0	2,285,386.2	111.50	15.00	0.00	0	0		
									point162	162	5,762,431.5	2,285,371.2	111.50	15.00	0.00	0	0		
									point161	161	5,762,411.5	2,285,333.2	111.50	15.00	0.00	0	0		
									point160	160	5,762,387.5	2,285,346.5	111.50	15.00					
Home 32	W	0.00	99.99	0.00				0.00	point169	169	5,762,427.0	2,285,331.8	113.00	15.00	0.00	0	0		
									point168	168	5,762,444.0	2,285,364.2	113.00	15.00	0.00	0	0		
									point167	167	5,762,471.5	2,285,349.5	113.00	15.00	0.00	0	0		
									point166	166	5,762,453.0	2,285,314.5	113.00	15.00	0.00	0	0		
									point165	165	5,762,427.0	2,285,331.8	113.00	15.00					
Home 33	W	0.00	99.99	0.00				0.00	point174	174	5,762,459.5	2,285,310.5	114.70	15.00	0.00	0	0		
									point173	173	5,762,481.5	2,285,351.8	114.70	15.00	0.00	0	0		
									point172	172	5,762,502.0	2,285,338.0	114.70	15.00	0.00	0	0		
									point171	171	5,762,483.5	2,285,296.5	114.70	15.00	0.00	0	0		
									point170	170	5,762,459.5	2,285,310.5	114.70	15.00					
Home 34	W	0.00	99.99	0.00				0.00	point179	179	5,762,490.5	2,285,280.2	115.00	15.00	0.00	0	0		
									point178	178	5,762,518.5	2,285,333.2	115.00	15.00	0.00	0	0		
									point177	177	5,762,543.5	2,285,318.0	115.00	15.00	0.00	0	0		
									point176	176	5,762,515.0	2,285,265.5	115.00	15.00	0.00	0	0		
									point175	175	5,762,490.5	2,285,280.2	115.00	15.00					
Home 35	W	0.00	99.99	0.00				0.00	point184	184	5,762,524.0	2,285,273.0	115.00	15.00	0.00	0	0		
									point183	183	5,762,547.0	2,285,310.5	115.00	15.00	0.00	0	0		
									point182	182	5,762,575.5	2,285,289.8	115.00	15.00	0.00	0	0		
									point181	181	5,762,553.5	2,285,256.5	115.00	15.00	0.00	0	0		
									point180	180	5,762,524.0	2,285,273.0	115.00	15.00					

Home 36	W	0.00	99.99	0.00				0.00	point189	189	5,761,566.5	2,285,125.8	110.00	15.00	0.00	0	0		
									point188	188	5,761,601.0	2,285,122.8	110.00	15.00	0.00	0	0		
									point187	187	5,761,597.5	2,285,073.5	110.00	15.00	0.00	0	0		
									point186	186	5,761,564.0	2,285,075.0	110.00	15.00	0.00	0	0		
									point185	185	5,761,566.5	2,285,125.8	110.00	15.00					
Home 37	W	0.00	99.99	0.00				0.00	point194	194	5,761,617.0	2,285,122.0	110.00	15.00	0.00	0	0		
									point193	193	5,761,650.5	2,285,119.2	110.00	15.00	0.00	0	0		
									point192	192	5,761,647.0	2,285,063.8	110.00	15.00	0.00	0	0		
									point191	191	5,761,610.5	2,285,066.5	110.00	15.00	0.00	0	0		
									point190	190	5,761,617.0	2,285,122.0	110.00	15.00					
Building	W	0.00	99.99	0.00				0.00	point199	199	5,762,309.5	2,284,866.5	120.00	15.00	0.00	0	0		
									point198	198	5,762,201.0	2,284,924.5	120.00	15.00	0.00	0	0		
									point197	197	5,762,183.0	2,284,899.5	120.00	15.00	0.00	0	0		
									point196	196	5,762,291.0	2,284,831.5	120.00	15.00	0.00	0	0		
									point195	195	5,762,309.5	2,284,866.5	120.00	15.00					
Fence 1	W	0.00	99.99	0.00				0.00	point202	202	5,762,553.5	2,285,255.0	115.00	6.00	0.00	0	0		
									point201	201	5,762,545.5	2,285,242.0	115.00	6.00	0.00	0	0		
									point200	200	5,762,536.5	2,285,247.0	115.00	6.00					
Fence 2	W	0.00	99.99	0.00				0.00	point207	207	5,762,499.5	2,285,230.8	115.00	6.00	0.00	0	0		
									point206	206	5,762,502.0	2,285,238.5	115.00	6.00	0.00	0	0		
									point205	205	5,762,529.5	2,285,224.8	115.00	6.00	0.00	0	0		
									point204	204	5,762,522.5	2,285,208.8	115.00	6.00	0.00	0	0		
									point203	203	5,762,513.5	2,285,211.5	115.00	6.00					
Pool Fence	W	0.00	99.99	0.00				0.00	point212	212	5,760,348.5	2,285,954.5	110.00	6.00	0.00	0	0		
									point211	211	5,760,366.0	2,285,994.0	110.00	6.00	0.00	0	0		
									point210	210	5,760,383.5	2,285,995.5	110.00	6.00	0.00	0	0		
									point209	209	5,760,434.0	2,285,959.5	110.00	6.00	0.00	0	0		
									point208	208	5,760,387.5	2,285,857.0	110.00	6.00					
Building 2	W	0.00	99.99	0.00				0.00	point217	217	5,760,288.5	2,285,967.8	110.00	15.00	0.00	0	0		
									point216	216	5,760,235.5	2,285,863.5	110.00	15.00	0.00	0	0		
									point215	215	5,760,290.5	2,285,837.0	110.00	15.00	0.00	0	0		
									point214	214	5,760,343.5	2,285,941.8	110.00	15.00	0.00	0	0		
									point213	213	5,760,288.5	2,285,967.8	110.00	15.00					
Building 3	W	0.00	99.99	0.00				0.00	point222	222	5,760,319.0	2,285,837.5	110.00	15.00	0.00	0	0		
									point221	221	5,760,292.5	2,285,785.5	110.00	15.00	0.00	0	0		
									point220	220	5,760,396.5	2,285,734.0	110.00	15.00	0.00	0	0		
									point219	219	5,760,423.0	2,285,786.2	110.00	15.00	0.00	0	0		
									point218	218	5,760,319.0	2,285,837.5	110.00	15.00					
Building 4	W	0.00	99.99	0.00				0.00	point227	227	5,760,508.5	2,285,838.2	110.00	15.00	0.00	0	0		
									point226	226	5,760,476.0	2,285,767.2	110.00	15.00	0.00	0	0		
									point225	225	5,760,500.0	2,285,753.0	110.00	15.00	0.00	0	0		
									point224	224	5,760,533.5	2,285,823.2	110.00	15.00	0.00	0	0		
									point223	223	5,760,508.5	2,285,838.2	110.00	15.00					

LSA Associates, Inc.
Jason Lui

9 October 2006
TNM 2.5

INPUT: TERRAIN LINES
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Alternative 6 Conditions

Terrain Line Name	Points No.	Coordinates (ground) X ft	Y ft	Z ft
Higuera NB	110	5,761,764.5	2,283,719.0	118.90
	109	5,761,817.5	2,283,807.8	118.90
	108	5,761,870.0	2,283,897.8	118.90
	107	5,761,914.5	2,283,973.5	118.90
	106	5,761,960.5	2,284,054.8	118.90
	105	5,762,010.0	2,284,141.0	118.90
	104	5,762,065.0	2,284,233.0	118.90
	103	5,762,114.0	2,284,315.2	118.90
	102	5,762,165.5	2,284,405.0	118.90
	101	5,762,213.5	2,284,484.5	119.10
	100	5,762,268.5	2,284,576.5	119.40
	99	5,762,318.0	2,284,655.8	118.80
	98	5,762,374.0	2,284,747.8	118.30
	97	5,762,426.5	2,284,836.0	118.90
	96	5,762,471.5	2,284,915.5	117.90
	95	5,762,525.5	2,285,007.5	117.70
	94	5,762,569.0	2,285,087.8	117.80
	93	5,762,615.0	2,285,168.5	117.80
	92	5,762,662.5	2,285,250.8	117.50
	91	5,762,713.0	2,285,330.0	117.00
	90	5,762,773.0	2,285,423.5	117.70
	89	5,762,817.0	2,285,500.0	117.20
	88	5,762,862.5	2,285,588.5	117.30
	87	5,762,914.5	2,285,687.0	118.10

	86	5,762,976.0	2,285,802.2	117.70
	85	5,763,040.5	2,285,924.5	117.80
	84	5,763,095.5	2,286,030.2	117.80
	83	5,763,150.5	2,286,111.5	117.80
Higuera SB	139	5,761,733.5	2,283,737.5	118.90
	138	5,761,785.5	2,283,826.2	118.90
	137	5,761,839.5	2,283,918.2	118.90
	136	5,761,885.0	2,283,992.5	118.90
	135	5,761,931.0	2,284,072.8	118.90
	134	5,761,980.5	2,284,158.8	118.90
	133	5,762,035.0	2,284,251.8	118.90
	132	5,762,084.0	2,284,334.0	118.90
	131	5,762,135.5	2,284,424.0	118.90
	130	5,762,183.5	2,284,503.5	119.10
	129	5,762,235.0	2,284,595.0	119.40
	128	5,762,281.5	2,284,677.0	118.80
	127	5,762,333.0	2,284,772.0	118.30
	126	5,762,383.5	2,284,862.0	118.00
	125	5,762,427.5	2,284,942.0	117.90
	124	5,762,483.5	2,285,031.0	117.70
	123	5,762,527.0	2,285,111.0	117.80
	122	5,762,573.0	2,285,191.8	117.80
	121	5,762,624.0	2,285,276.2	117.50
	120	5,762,671.0	2,285,353.0	117.00
	119	5,762,726.5	2,285,451.0	117.70
	118	5,762,768.0	2,285,527.5	117.20
	117	5,762,813.5	2,285,616.2	117.30
	116	5,762,865.5	2,285,714.8	118.10
	115	5,762,927.0	2,285,829.8	117.70
	114	5,762,991.5	2,285,952.0	117.80
	113	5,763,046.5	2,286,058.0	117.80
	112	5,763,101.0	2,286,139.2	117.80
US 101 NB Off-Ramp	220	5,761,028.5	2,285,459.2	140.00
	219	5,760,967.0	2,285,410.0	140.00
	218	5,760,898.0	2,285,346.2	141.40

	217	5,760,820.0	2,285,284.0	136.20
	216	5,760,757.5	2,285,215.2	132.90
	215	5,760,695.5	2,285,134.0	126.90
	214	5,760,640.5	2,285,038.0	121.40
	213	5,760,595.5	2,284,943.8	117.10
	212	5,760,566.0	2,284,846.2	111.50
	211	5,760,531.5	2,284,745.5	106.30
	210	5,760,517.0	2,284,641.0	105.90
	209	5,760,501.5	2,284,536.2	104.90
	208	5,760,490.5	2,284,449.0	104.70
	207	5,760,477.5	2,284,346.0	106.00
US 101 NB 1	238	5,760,423.5	2,283,770.0	115.00
	237	5,760,437.5	2,283,950.0	109.70
	236	5,760,446.5	2,284,089.2	108.50
	235	5,760,449.0	2,284,274.2	107.30
	234	5,760,457.0	2,284,457.5	105.00
	233	5,760,468.0	2,284,638.2	103.60
	232	5,760,479.5	2,284,804.5	102.00
	231	5,760,499.0	2,284,998.0	101.10
	230	5,760,535.5	2,285,170.0	101.40
	229	5,760,586.0	2,285,341.0	102.20
	228	5,760,654.5	2,285,515.0	105.00
	227	5,760,737.0	2,285,673.0	106.80
	226	5,760,821.5	2,285,835.0	105.00
US 101 NB 2	250	5,760,948.5	2,286,078.5	107.30
	249	5,761,054.5	2,286,276.2	109.20
	248	5,761,206.5	2,286,565.8	111.50
	247	5,761,343.0	2,286,827.0	115.00
	246	5,761,481.0	2,287,086.5	117.00
	245	5,761,612.0	2,287,339.5	119.00
	244	5,761,771.5	2,287,639.0	120.70
	243	5,761,936.5	2,287,950.0	123.70
	242	5,762,096.5	2,288,259.0	125.00
	241	5,762,241.5	2,288,531.0	125.00
	240	5,762,375.5	2,288,785.8	128.50

	239	5,762,516.5	2,289,056.0	130.00
US 101 SB 1	263	5,760,312.5	2,283,773.8	109.70
	262	5,760,332.0	2,283,954.5	109.60
	261	5,760,339.0	2,284,096.0	108.50
	260	5,760,344.5	2,284,281.5	106.70
	259	5,760,355.5	2,284,464.8	105.10
	258	5,760,364.0	2,284,648.8	103.60
	257	5,760,375.5	2,284,812.5	103.50
	256	5,760,393.5	2,285,012.0	103.60
	255	5,760,431.5	2,285,191.0	104.10
	254	5,760,486.5	2,285,377.0	105.30
US 101 SB 2	275	5,760,895.5	2,286,190.8	108.40
	274	5,760,964.0	2,286,324.8	109.20
	273	5,761,116.0	2,286,614.2	111.50
	272	5,761,252.0	2,286,875.5	115.00
	271	5,761,390.0	2,287,135.0	117.00
	270	5,761,521.5	2,287,388.0	119.50
	269	5,761,681.0	2,287,687.5	120.70
	268	5,761,845.5	2,287,998.5	123.60
	267	5,762,005.5	2,288,307.5	125.00
	266	5,762,150.5	2,288,579.5	125.00
	265	5,762,284.5	2,288,834.2	128.50
	264	5,762,430.5	2,289,102.0	130.00
Los Osos WB	315	5,762,477.0	2,285,082.2	117.20
	314	5,762,376.5	2,285,140.5	113.70
	313	5,762,251.0	2,285,183.0	111.90
	312	5,762,114.5	2,285,199.2	111.10
	311	5,761,916.5	2,285,223.0	110.10
	310	5,761,786.0	2,285,233.2	109.40
	309	5,761,592.5	2,285,251.2	111.50
	308	5,761,530.5	2,285,264.2	112.50
	307	5,761,408.0	2,285,303.0	118.10
	306	5,761,294.0	2,285,359.5	124.70
	305	5,761,241.5	2,285,394.0	126.30
	304	5,761,148.5	2,285,474.5	130.20

	303	5,761,100.5	2,285,520.0	131.60
	302	5,760,995.5	2,285,675.2	134.50
	301	5,760,942.0	2,285,791.2	134.50
	300	5,760,909.5	2,285,915.2	132.80
	299	5,760,883.0	2,286,046.5	129.80
	298	5,760,858.0	2,286,175.5	126.30
	297	5,760,830.5	2,286,304.2	121.40
	296	5,760,798.0	2,286,433.0	114.80
	295	5,760,761.5	2,286,563.5	111.50
	294	5,760,742.5	2,286,624.0	109.90
	293	5,760,704.0	2,286,738.5	108.30
	292	5,760,628.0	2,286,937.2	108.10
	291	5,760,603.5	2,287,001.5	110.20
	290	5,760,549.0	2,287,122.0	109.40
	289	5,760,495.0	2,287,240.5	111.80
	288	5,760,450.5	2,287,333.5	112.70
	287	5,760,392.0	2,287,443.8	112.10
	286	5,760,332.5	2,287,551.8	113.40
	285	5,760,267.5	2,287,662.5	115.30
	284	5,760,194.0	2,287,779.2	114.90
	283	5,760,123.0	2,287,890.0	115.40
	282	5,760,062.5	2,287,984.0	116.90
	281	5,759,994.5	2,288,087.8	117.60
	280	5,759,930.5	2,288,189.0	117.20
	279	5,759,863.0	2,288,287.8	117.20
	278	5,759,798.0	2,288,385.0	117.20
	277	5,759,741.0	2,288,469.5	117.20
	276	5,759,683.5	2,288,557.2	117.20
Los Osos SB	355	5,762,455.0	2,285,023.5	117.20
	354	5,762,355.0	2,285,083.5	113.70
	353	5,762,237.0	2,285,124.0	111.90
	352	5,762,110.0	2,285,140.5	111.30
	351	5,761,914.0	2,285,156.2	110.10
	350	5,761,780.5	2,285,167.0	109.40
	349	5,761,583.5	2,285,188.5	111.50

	348	5,761,513.5	2,285,202.2	112.50
	347	5,761,385.5	2,285,242.8	118.10
	346	5,761,260.5	2,285,303.5	124.70
	345	5,761,206.0	2,285,342.0	126.30
	344	5,761,099.0	2,285,428.2	130.20
	343	5,761,051.5	2,285,472.5	131.60
	342	5,760,934.0	2,285,649.5	134.50
	341	5,760,882.5	2,285,771.5	134.50
	340	5,760,844.5	2,285,903.0	132.80
	339	5,760,822.0	2,286,034.0	129.80
	338	5,760,793.0	2,286,165.2	126.30
	337	5,760,764.5	2,286,291.2	121.40
	336	5,760,735.5	2,286,417.0	114.80
	335	5,760,698.5	2,286,543.2	111.50
	334	5,760,680.0	2,286,603.5	109.90
	333	5,760,643.0	2,286,711.0	108.30
	332	5,760,562.0	2,286,913.0	108.10
	331	5,760,541.0	2,286,975.2	110.20
	330	5,760,489.5	2,287,095.0	109.40
	329	5,760,432.5	2,287,214.8	111.80
	328	5,760,390.5	2,287,304.5	112.70
	327	5,760,335.0	2,287,411.5	112.10
	326	5,760,273.5	2,287,518.5	113.40
	325	5,760,209.0	2,287,623.5	115.30
	324	5,760,135.5	2,287,740.2	114.90
	323	5,760,064.0	2,287,851.0	115.40
	322	5,760,004.5	2,287,938.8	116.90
	321	5,759,933.0	2,288,040.0	117.60
	320	5,759,864.0	2,288,141.0	117.20
	319	5,759,793.0	2,288,240.0	117.20
	318	5,759,725.0	2,288,337.8	117.20
	317	5,759,668.5	2,288,422.0	117.20
	316	5,759,610.5	2,288,510.0	117.20
Calle Joaquin WB	378	5,760,592.5	2,286,744.2	108.70
	377	5,760,537.0	2,286,714.0	108.70

	376	5,760,485.0	2,286,662.8	108.50
	375	5,760,451.0	2,286,607.8	106.60
	374	5,760,414.5	2,286,532.0	106.60
	373	5,760,379.5	2,286,466.5	106.60
	372	5,760,339.5	2,286,393.0	106.60
	371	5,760,303.5	2,286,303.2	106.60
	370	5,760,272.5	2,286,228.8	106.60
	369	5,760,241.0	2,286,155.2	106.60
	368	5,760,207.0	2,286,077.8	106.60
	367	5,760,178.5	2,286,017.0	106.60
	366	5,760,147.5	2,285,943.0	106.60
	365	5,760,129.0	2,285,883.0	106.60
	364	5,760,130.0	2,285,831.0	106.60
	363	5,760,147.5	2,285,773.5	106.60
	362	5,760,177.0	2,285,730.8	106.60
	361	5,760,228.0	2,285,693.5	106.60
	360	5,760,303.5	2,285,658.5	106.60
	359	5,760,374.5	2,285,618.5	106.60
	358	5,760,427.0	2,285,552.0	103.00
	357	5,760,448.0	2,285,475.0	100.70
	356	5,760,442.0	2,285,397.5	100.70
Calle Joaquin EB	401	5,760,566.0	2,286,808.8	108.70
	400	5,760,498.5	2,286,761.5	108.70
	399	5,760,440.0	2,286,707.2	108.50
	398	5,760,395.5	2,286,638.5	106.60
	397	5,760,364.0	2,286,557.5	106.60
	396	5,760,337.5	2,286,487.2	106.60
	395	5,760,306.5	2,286,406.8	106.60
	394	5,760,270.5	2,286,316.8	106.60
	393	5,760,243.0	2,286,240.5	106.60
	392	5,760,213.5	2,286,167.5	106.60
	391	5,760,182.5	2,286,088.5	106.60
	390	5,760,157.5	2,286,025.0	106.60
	389	5,760,126.0	2,285,951.0	106.60
	388	5,760,107.5	2,285,888.5	106.60

	387	5,760,106.5	2,285,827.2	106.60
	386	5,760,128.0	2,285,764.2	106.60
	385	5,760,161.5	2,285,716.2	106.60
	384	5,760,216.5	2,285,673.5	106.60
	383	5,760,293.0	2,285,638.8	106.60
	382	5,760,361.5	2,285,599.5	106.60
	381	5,760,407.5	2,285,543.0	103.00
	380	5,760,425.5	2,285,473.5	100.70
	379	5,760,417.5	2,285,401.8	100.70
US 101 NB On Ramp	414	5,761,234.0	2,285,421.0	125.70
	413	5,761,123.0	2,285,578.5	131.20
	412	5,761,076.5	2,285,699.0	132.90
	411	5,761,055.5	2,285,826.0	131.20
	410	5,761,055.5	2,285,956.5	126.60
	409	5,761,058.5	2,286,087.0	121.40
	408	5,761,083.0	2,286,213.5	117.10
	407	5,761,130.0	2,286,333.0	113.20
	406	5,761,182.5	2,286,453.5	110.60
	405	5,761,238.5	2,286,571.5	110.90
	404	5,761,294.5	2,286,692.8	111.20
	403	5,761,355.5	2,286,811.5	112.50
	402	5,761,405.5	2,286,915.0	113.20

LSA Associates, Inc. 9 October 2006
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RESULTS: BARRIER DESCRIPTIONS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Alternative 6 Conditions
BARRIER DESIGN: INPUT HEIGHTS

Barriers

Name	Type	Heights along Barrier			Length	If Wall	If Berm			Cost
		Min	Avg	Max		Area	Volume	Top Width	Run:Rise	
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	$
Home 1	W	15.00	15.00	15.00	203	3044				0
Home 2	W	15.00	15.00	15.00	169	2535				0
Home 3	W	15.00	15.00	15.00	171	2558				0
Home 4	W	15.00	15.00	15.00	169	2537				0
Home 5	W	15.00	15.00	15.00	210	3146				0
Home 6	W	15.00	15.00	15.00	190	2848				0
Home 7	W	15.00	15.00	15.00	167	2502				0
Home 8	W	15.00	15.00	15.00	189	2837				0
Home 9	W	15.00	15.00	15.00	169	2535				0
Home 10	W	15.00	15.00	15.00	159	2390				0
Home 11	W	15.00	15.00	15.00	261	3920				0
Home 12	W	15.00	15.00	15.00	154	2316				0
Daycare	W	15.00	15.00	15.00	343	5143				0
Home 14	W	15.00	15.00	15.00	161	2419				0
Home 15	W	15.00	15.00	15.00	181	2710				0
Home 16	W	15.00	15.00	15.00	188	2813				0
Home 17	W	15.00	15.00	15.00	162	2435				0
Home 18	W	15.00	15.00	15.00	175	2623				0
Home 19	W	15.00	15.00	15.00	171	2568				0
Home 20	W	15.00	15.00	15.00	169	2528				0
Home 21	W	15.00	15.00	15.00	167	2506				0
Home 22	W	15.00	15.00	15.00	153	2301				0
Home 23	W	15.00	15.00	15.00	192	2873				0

Home 24	W	15.00	15.00	15.00	152	2279				0
Home 25	W	15.00	15.00	15.00	175	2624				0
Home 26	W	15.00	15.00	15.00	201	3017				0
Home 27	W	15.00	15.00	15.00	149	2239				0
Home 28	W	15.00	15.00	15.00	152	2276				0
Home 29	W	15.00	15.00	15.00	161	2416				0
Pool House	W	15.00	15.00	15.00	111	1658				0
Home 30	W	15.00	15.00	15.00	142	2126				0
Home 31	W	15.00	15.00	15.00	143	2150				0
Home 32	W	15.00	15.00	15.00	139	2080				0
Home 33	W	15.00	15.00	15.00	145	2170				0
Home 34	W	15.00	15.00	15.00	178	2663				0
Home 35	W	15.00	15.00	15.00	153	2294				0
Home 36	W	15.00	15.00	15.00	168	2525				0
Home 37	W	15.00	15.00	15.00	182	2726				0
Building	W	15.00	15.00	15.00	321	4816				0
Fence 1	W	6.00	6.00	6.00	26	153				0
Fence 2	W	6.00	6.00	6.00	66	395				0
Pool Fence	W	6.00	6.00	6.00	235	1412				0
Building 2	W	15.00	15.00	15.00	356	5343				0
Building 3	W	15.00	15.00	15.00	349	5234				0
Building 4	W	15.00	15.00	15.00	213	3195				0
									Total Cost:	0

LSA Associates, Inc.
Jason Lui

9 October 2006
TNM 2.5

RESULTS: BARRIER-SEGMENT DESCRIPTIONS
PROJECT/CONTRACT: Los Osos Valley Road/US 101 Interchang
RUN: Alternative 6 Conditions
BARRIER DESIGN: INPUT HEIGHTS

Barriers		Segments										
Name	Type	Name	No.	Heights			Length	If Wall			If Berm	Cost
				First Point	Average	Second Point		Area	On Struc?	Important Reflections?	Volume	
				ft	ft	ft	ft	sq ft			cu yd	$
Home 1	W	point5	5	15.00	15.00	15.00	65	981				0
		point4	4	15.00	15.00	15.00	33	499				0
		point3	3	15.00	15.00	15.00	69	1033				0
		point2	2	15.00	15.00	15.00	35	532				0
Home 2	W	point10	10	15.00	15.00	15.00	57	855				0
		point9	9	15.00	15.00	15.00	30	454				0
		point8	8	15.00	15.00	15.00	53	794				0
		point7	7	15.00	15.00	15.00	29	432				0
Home 3	W	point15	15	15.00	15.00	15.00	50	750				0
		point14	14	15.00	15.00	15.00	38	564				0
		point13	13	15.00	15.00	15.00	49	741				0
		point12	12	15.00	15.00	15.00	34	504				0
Home 4	W	point21	21	15.00	15.00	15.00	50	755				0
		point20	20	15.00	15.00	15.00	35	522				0
		point19	19	15.00	15.00	15.00	51	761				0
		point18	18	15.00	15.00	15.00	33	499				0
Home 5	W	point26	26	15.00	15.00	15.00	67	1001				0
		point25	25	15.00	15.00	15.00	39	585				0
		point24	24	15.00	15.00	15.00	69	1038				0
		point23	23	15.00	15.00	15.00	35	523				0
Home 6	W	point31	31	15.00	15.00	15.00	67	1002				0

		point30	30	15.00	15.00	15.00	28	414				0
		point29	29	15.00	15.00	15.00	67	1000				0
		point28	28	15.00	15.00	15.00	29	432				0
Home 7	W	point36	36	15.00	15.00	15.00	60	905				0
		point35	35	15.00	15.00	15.00	21	320				0
		point34	34	15.00	15.00	15.00	62	933				0
		point33	33	15.00	15.00	15.00	23	345				0
Home 8	W	point41	41	15.00	15.00	15.00	67	1008				0
		point40	40	15.00	15.00	15.00	26	395				0
		point39	39	15.00	15.00	15.00	68	1022				0
		point38	38	15.00	15.00	15.00	27	411				0
Home 9	W	point46	46	15.00	15.00	15.00	35	521				0
		point45	45	15.00	15.00	15.00	48	725				0
		point44	44	15.00	15.00	15.00	37	557				0
		point43	43	15.00	15.00	15.00	49	732				0
Home 10	W	point51	51	15.00	15.00	15.00	42	624				0
		point50	50	15.00	15.00	15.00	38	563				0
		point49	49	15.00	15.00	15.00	42	625				0
		point48	48	15.00	15.00	15.00	39	578				0
Home 11	W	point58	58	15.00	15.00	15.00	35	520				0
		point57	57	15.00	15.00	15.00	50	755				0
		point56	56	15.00	15.00	15.00	23	343				0
		point55	55	15.00	15.00	15.00	24	364				0
		point54	54	15.00	15.00	15.00	65	981				0
		point53	53	15.00	15.00	15.00	64	957				0
Home 12	W	point63	63	15.00	15.00	15.00	55	824				0
		point62	62	15.00	15.00	15.00	22	336				0
		point61	61	15.00	15.00	15.00	53	800				0
		point60	60	15.00	15.00	15.00	24	356				0
Daycare	W	point68	68	15.00	15.00	15.00	37	560				0
		point67	67	15.00	15.00	15.00	129	1942				0
		point66	66	15.00	15.00	15.00	51	758				0

		point65	65	15.00	15.00	15.00	126	1883				0
Home 14	W	point73	73	15.00	15.00	15.00	60	896				0
		point72	72	15.00	15.00	15.00	21	318				0
		point71	71	15.00	15.00	15.00	59	888				0
		point70	70	15.00	15.00	15.00	21	317				0
Home 15	W	point78	78	15.00	15.00	15.00	30	452				0
		point77	77	15.00	15.00	15.00	61	917				0
		point76	76	15.00	15.00	15.00	28	422				0
		point75	75	15.00	15.00	15.00	61	919				0
Home 16	W	point83	83	15.00	15.00	15.00	61	915				0
		point82	82	15.00	15.00	15.00	33	497				0
		point81	81	15.00	15.00	15.00	61	911				0
		point80	80	15.00	15.00	15.00	33	490				0
Home 17	W	point88	88	15.00	15.00	15.00	62	931				0
		point87	87	15.00	15.00	15.00	18	271				0
		point86	86	15.00	15.00	15.00	62	932				0
		point85	85	15.00	15.00	15.00	20	301				0
Home 18	W	point93	93	15.00	15.00	15.00	21	321				0
		point92	92	15.00	15.00	15.00	65	974				0
		point91	91	15.00	15.00	15.00	23	342				0
		point90	90	15.00	15.00	15.00	66	986				0
Home 19	W	point98	98	15.00	15.00	15.00	55	819				0
		point97	97	15.00	15.00	15.00	31	472				0
		point96	96	15.00	15.00	15.00	54	803				0
		point95	95	15.00	15.00	15.00	32	474				0
Home 20	W	point103	103	15.00	15.00	15.00	64	967				0
		point102	102	15.00	15.00	15.00	24	362				0
		point101	101	15.00	15.00	15.00	60	899				0
		point100	100	15.00	15.00	15.00	20	299				0
Home 21	W	point108	108	15.00	15.00	15.00	60	897				0
		point107	107	15.00	15.00	15.00	22	337				0

		point106	106	15.00	15.00	15.00	58	872				0
		point105	105	15.00	15.00	15.00	27	400				0
Home 22	W	point113	113	15.00	15.00	15.00	55	819				0
		point112	112	15.00	15.00	15.00	23	342				0
		point111	111	15.00	15.00	15.00	50	751				0
		point110	110	15.00	15.00	15.00	26	389				0
Home 23	W	point118	118	15.00	15.00	15.00	61	922				0
		point117	117	15.00	15.00	15.00	33	493				0
		point116	116	15.00	15.00	15.00	61	911				0
		point115	115	15.00	15.00	15.00	36	547				0
Home 24	W	point123	123	15.00	15.00	15.00	55	830				0
		point122	122	15.00	15.00	15.00	22	323				0
		point121	121	15.00	15.00	15.00	55	822				0
		point120	120	15.00	15.00	15.00	20	304				0
Home 25	W	point128	128	15.00	15.00	15.00	60	902				0
		point127	127	15.00	15.00	15.00	29	442				0
		point126	126	15.00	15.00	15.00	61	916				0
		point125	125	15.00	15.00	15.00	24	365				0
Home 26	W	point133	133	15.00	15.00	15.00	64	967				0
		point132	132	15.00	15.00	15.00	37	549				0
		point131	131	15.00	15.00	15.00	60	903				0
		point130	130	15.00	15.00	15.00	40	598				0
Home 27	W	point138	138	15.00	15.00	15.00	52	776				0
		point137	137	15.00	15.00	15.00	24	357				0
		point136	136	15.00	15.00	15.00	51	761				0
		point135	135	15.00	15.00	15.00	23	346				0
Home 28	W	point143	143	15.00	15.00	15.00	40	600				0
		point142	142	15.00	15.00	15.00	37	549				0
		point141	141	15.00	15.00	15.00	41	619				0
		point140	140	15.00	15.00	15.00	34	508				0
Home 29	W	point148	148	15.00	15.00	15.00	36	533				0

		point147	147	15.00	15.00	15.00	46	694				0
		point146	146	15.00	15.00	15.00	31	467				0
		point145	145	15.00	15.00	15.00	48	722				0
Pool House	W	point154	154	15.00	15.00	15.00	35	525				0
		point153	153	15.00	15.00	15.00	20	304				0
		point152	152	15.00	15.00	15.00	38	572				0
		point151	151	15.00	15.00	15.00	17	257				0
Home 30	W	point159	159	15.00	15.00	15.00	49	735				0
		point158	158	15.00	15.00	15.00	25	370				0
		point157	157	15.00	15.00	15.00	46	685				0
		point156	156	15.00	15.00	15.00	22	336				0
Home 31	W	point164	164	15.00	15.00	15.00	44	664				0
		point163	163	15.00	15.00	15.00	29	431				0
		point162	162	15.00	15.00	15.00	43	644				0
		point161	161	15.00	15.00	15.00	27	411				0
Home 32	W	point169	169	15.00	15.00	15.00	37	550				0
		point168	168	15.00	15.00	15.00	31	468				0
		point167	167	15.00	15.00	15.00	40	594				0
		point166	166	15.00	15.00	15.00	31	468				0
Home 33	W	point174	174	15.00	15.00	15.00	47	701				0
		point173	173	15.00	15.00	15.00	25	370				0
		point172	172	15.00	15.00	15.00	45	682				0
		point171	171	15.00	15.00	15.00	28	417				0
Home 34	W	point179	179	15.00	15.00	15.00	60	899				0
		point178	178	15.00	15.00	15.00	29	439				0
		point177	177	15.00	15.00	15.00	60	896				0
		point176	176	15.00	15.00	15.00	29	429				0
Home 35	W	point184	184	15.00	15.00	15.00	44	660				0
		point183	183	15.00	15.00	15.00	35	529				0
		point182	182	15.00	15.00	15.00	40	598				0
		point181	181	15.00	15.00	15.00	34	507				0

Home 36	W	point189	189	15.00	15.00	15.00	35	519				0
		point188	188	15.00	15.00	15.00	49	741				0
		point187	187	15.00	15.00	15.00	34	503				0
		point186	186	15.00	15.00	15.00	51	762				0
Home 37	W	point194	194	15.00	15.00	15.00	34	504				0
		point193	193	15.00	15.00	15.00	56	834				0
		point192	192	15.00	15.00	15.00	37	549				0
		point191	191	15.00	15.00	15.00	56	838				0
Building	W	point199	199	15.00	15.00	15.00	123	1845				0
		point198	198	15.00	15.00	15.00	31	462				0
		point197	197	15.00	15.00	15.00	128	1914				0
		point196	196	15.00	15.00	15.00	40	594				0
Fence 1	W	point202	202	6.00	6.00	6.00	15	92				0
		point201	201	6.00	6.00	6.00	10	62				0
Fence 2	W	point207	207	6.00	6.00	6.00	8	49				0
		point206	206	6.00	6.00	6.00	31	184				0
		point205	205	6.00	6.00	6.00	17	105				0
		point204	204	6.00	6.00	6.00	9	56				0
Pool Fence	W	point212	212	6.00	6.00	6.00	43	259				0
		point211	211	6.00	6.00	6.00	18	105				0
		point210	210	6.00	6.00	6.00	62	372				0
		point209	209	6.00	6.00	6.00	113	675				0
Building 2	W	point217	217	15.00	15.00	15.00	117	1754				0
		point216	216	15.00	15.00	15.00	61	916				0
		point215	215	15.00	15.00	15.00	117	1761				0
		point214	214	15.00	15.00	15.00	61	913				0
Building 3	W	point222	222	15.00	15.00	15.00	58	875				0
		point221	221	15.00	15.00	15.00	116	1741				0
		point220	220	15.00	15.00	15.00	59	879				0
		point219	219	15.00	15.00	15.00	116	1739				0
Building 4	W	point227	227	15.00	15.00	15.00	78	1171				0

		point226	226	15.00	15.00	15.00	28	419				0
		point225	225	15.00	15.00	15.00	78	1167				0
		point224	224	15.00	15.00	15.00	29	437				0

LSA Associates, Inc.													9-Oct-06			
Jason Lui													TNM 2.5			
													Calculated with TNM 2.5			
Results:	Sound Levels															
Project/Co	DEC0603															
Run:	Alternative 6															
							Increase over existing			With Barrier		Noise Reduction				
					Calculated	Crit'n	Calculated	Crit'n Sub'l	Type Impa	Calculated	With Calibr	Calculated	Goal	Calculated minus Goal		
Name	No.	Calibration	#DUs	Existing Leqh	dBA	dBA	dB	dB	dBA	dBA	dBA	dB	dB	dB		
R-1"	1	-2.8	1	0	72.9	66	72.9	10	Snd Lvl	72.9	0	8	0			
R-2"	2	-2.8	1	0	72.4	66	72.4	10	Snd Lvl	72.4	0	8	0			
R-3"	3	-2.8	1	0	74.2	66	74.2	10	Snd Lvl	74.2	0	8	0			
R-4"	4	1.8	1	0	68.7	66	68.7	10	Snd Lvl	68.7	0	8	0			
R-5"	5	1.8	1	0	67.2	66	67.2	10	Snd Lvl	67.2	0	8	0			
R-6"	6	1.8	1	0	67.7	66	67.7	10	Snd Lvl	67.7	0	8	0			
R-7"	7	-6.6	1	0	62.4	66	62.4	10	----	62.4	0	8	0			
R-8"	8	-6.6	1	0	61.9	66	61.9	10	----	61.9	0	8	0			
R-9"	9	-6.6	1	0	60.7	66	60.7	10	----	60.7	0	8	0			
R-10"	10	-6.6	1	0	61.7	66	61.7	10	----	61.7	0	8	0			
R-11"	11	-6.6	1	0	61.3	66	61.3	10	----	61.3	0	8	0			
R-12"	12	-6.6	1	0	61.4	66	61.4	10	----	61.4	0	8	0			
R-13"	13	-2.8	1	0	53.5	66	53.5	10	----	53.5	0	8	0			
R-14"	14	-2.8	1	0	52.2	66	52.2	10	----	52.2	0	8	0			
R-15"	15	-2.8	1	0	57.9	66	57.9	10	----	57.9	0	8	0			
R-16"	16	-1.6	1	0	64	66	64	10	----	64	0	8	0			
R-17"	17	-1.6	1	0	65.5	66	65.5	10	----	65.5	0	8	0			
R-18"	18	-2.8	1	0	49.3	66	49.3	10	----	49.3	0	8	0			
R-19"	19	-2.8	1	0	56	66	56	10	----	56	0	8	0			
R-20"	20	-2.8	1	0	62.5	66	62.5	10	----	62.5	0	8	0			
R-21"	21	-2.8	1	0	56	66	56	10	----	56	0	8	0			
R-22"	22	-1.6	1	0	58.7	66	58.7	10	----	58.7	0	8	0			
R-23"	23	-0.7	1	0	61.3	66	61.3	10	----	61.3	0	8	0			
R-24"	24	-0.7	1	0	51.7	66	51.7	10	----	51.7	0	8	0			
R-25"	25	-1.1	1	0	51.9	66	51.9	10	----	51.9	0	8	0			
R-26"	26	-1.1	1	0	54.4	66	54.4	10	----	54.4	0	8	0			
R-27"	27	-1.1	1	0	59.5	66	59.5	10	----	59.5	0	8	0			
R-28"	28	-0.3	1	0	58.7	66	58.7	10	----	58.7	0	8	0			
R-29"	30	-0.3	1	0	63.7	66	63.7	10	----	63.7	0	8	0			
R-30"	31	-0.7	1	0	57.2	66	57.2	10	----	57.2	0	8	0			
R-31"	32	-0.7	1	0	51.6	66	51.6	10	----	51.6	0	8	0			
R-32"	33	-0.7	1	0	58.8	66	58.8	10	----	58.8	0	8	0			
R-33"	34	-1.1	1	0	56.3	66	56.3	10	----	56.3	0	8	0			
R-31"	35	-1.1	1	0	53.1	66	53.1	10	----	53.1	0	8	0			
R-32"	36	-0.3	1	0	54.4	66	54.4	10	----	54.4	0	8	0			
R-33"	37	-0.3	1	0	52.8	66	52.8	10	----	52.8	0	8	0			
R-31"	38	-0.3	1	0	63.9	66	63.9	10	----	63.9	0	8	0			
R-32"	39	1.8	1	0	58.8	66	58.8	10	----	58.8	0	8	0			

APPENDIX F

NOISE MONITORING RESULTS

Sheet _____ of _____

NOISE MEASUREMENT SURVEY

Site Number: 1 Date: 3-15-06 Time: From 9:51 To 10:09

Site Location: 12250 Los Osos Valley Road, on the north side, at the Sunset Honda Dealership, between car lot and side walk

Noise Sources: Traffic on Los Osos Valley Road

Measurement Results (dBA)

Leq 72.5
Lmax 82.0
Lmin 56.8
Lpeak 116.8
L2 77.9
L8 75.7
L25 73.8
L50 71.4
SEL 103.4

Comments: Los Osos Valley Road = 4 lanes (2/2) divided 35-40 mph

Equipment: Larson Davis model 824 Noise Meter.

Atmospheric Conditions: Wind Velocity: Avg 1.3 / Max 4.5 (MPH); Temperature: 68.6 (F)
Relative Humidity: 33 (%)

Test Personnel: Jason Lui

Los Osos Valley Road (WB/EB)
Auto = 217 / 170
MED = 5 / 5
HEAVY = 5 / 1

US 101 (WB/EB)
Auto = 335 / 331
MED = 11 / 13
HEAVY = 15 / 20

Sheet _____ of _____

NOISE MEASUREMENT SURVEY

Site Number: 2 Date: 3-15-06 Time: From 10:26 To 10:46

Site Location: 12398 Los Osos Valley Road; on the north side at the Toyota Dealership parking lot; approximately 50 feet from edge of road.

Noise Sources: Traffic on Los Osos Valley Road and loud speaker from the Dealership

Measurement Results (dBA)

Leq 64.0
Lmax 82.1
Lmin 50.9
Lpeak 95.3
L2 69.2
L8 66.7
L25 64.4
L50 62.5
SEL 94.8

Comments: Los Osos Valley Road = 4 lanes (2/2) divided 35-40 mph

Equipment: Los Osos Valley Road

Atmospheric Conditions:
Wind Velocity: _____ (MPH); Temperature: _____ (F)
Relative Humidity: _____ (%)

Test Personnel: Jason Lui

Los Osos Valley Road (WB/EB)
Auto = 197/203
MED = 2/13
HEAVY = 1/2

US 101 (NB/SB)
Auto = 321/337
MED = 10/22
HEAVY = 20/24

Sheet _____ of _____

NOISE MEASUREMENT SURVEY

Site Number: 3 Date: 3-15-06 Time: From 10:55 To 11:15

Site Location: 12500 Los Osos Valley Road; on the north side; at the strawberry stand, approximately 65 feet from the edge of road.

Noise Sources: Traffic on Los Osos Valley Road, some on-site traffic, parking activity, and aircraft noise

Measurement Results (dBA)

Leq 64.9
Lmax 76.1
Lmin 50.8
Lpeak 92.9
L2 70.1
L8 68.4
L25 66.0
L50 63.7
SEL 95.7

Comments: Los Osos Valley Road - 2 lanes (1/1) divided 35 mph

Equipment: Larson Davis model 824 Noise Meter

Atmospheric Conditions: Avg / Max
Wind Velocity: 2.0 / 6.9 (MPH); Temperature: 60.6 (F)
Relative Humidity: 38 (%)

Test Personnel: Jason Lui

Los Osos Valley Road (WB/EB)
Auto =
MED =
HEAVY =

US 101 (NB/SB)
Auto = 333/361
MED = 9/15
HEAVY = 14/15

Sheet _____ of _____

NOISE MEASUREMENT SURVEY

Site Number: 4 Date: 3-15-06 Time: From 11:26 To 11:46

Site Location: 76 Los Palos Drive; on the south side of Los Osos Valley Road; in the middle of the driveway.

Noise Sources: Traffic on Los Osos Valley Road and Los Palos Drive, lawnmower, and some aircraft noise

Measurement Results (dBA)

Leq 66.0
Lmax 78.1
Lmin 50.0
Lpeak 93.5
L2 71.5
L8 69.3
L25 67.2
L50 64.7
SEL 97.0

Comments: Los Osos Valley Road = 2 Lanes (1/1) divided 35 mph

Equipment: Larson Davis model 824 Noise Meter.

Atmospheric Conditions: AVG MAX
Wind Velocity: 1.6 / 6.5 (MPH); Temperature: 64.7 (F)
Relative Humidity: 41 (%)

Test Personnel: JASON Lui

Los Osos Valley Road (WB/EB)
Auto = 128 / 159
MED = 2 / 5
HEAVY = 1 / 0

US 101 (NB/SB)
Auto = 306 / 431
MED = 9 / 17
HEAVY = 12 / 20

Sheet _____ of _____

NOISE MEASUREMENT SURVEY

Site Number: 5 Date: 3-15-06 Time: From 1:18 To 1:38

Site Location: 1 Los Palos Drive; on the south side of Los Osos Valley Road; side/front yard area.

Noise Sources: Traffic on Los Osos Valley Road and Los Palos Drive, faint traffic on US 101

Measurement Results (dBA)

Leq 64.0
Lmax 78.6
Lmin 55.7
Lpeak 116.9
L2 69.2
L8 66.6
L25 64.4
L50 63.0
SEL 95.2

Comments: Los Osos Valley Road = 2 Lanes (1/1) divided 35 mph

Equipment: Larson Davis model 824 Noise Meter

Atmospheric Conditions: AVG MAX
Wind Velocity: 4.4/2.6 (MPH); Temperature: 64.2 (F)
Relative Humidity: 45 (%)

Test Personnel: Jason Lui

Los Osos Valley Road (WB/EB)
Auto = 130/213
MED = 3/4
HEAVY = 1/4

US 101 (NB/SB)
Auto = 311/469
MED = 15/15
HEAVY = 11/16

Sheet _____ of _____

NOISE MEASUREMENT SURVEY

Site Number: 6 Date: 3-15-06 Time: From 1:49 To 2:09

Site Location: 90 Los Verdes Drive; on the northside of Los Osos Valley Road; in the middle of the drive way.

Noise Sources: Traffic on Los Osos Valley Road and Los Verdes Drive

Measurement Results (dBA)

Leq 64.2
Lmax 75.0
Lmin 51.0
Lpeak 88.0
L2 70.3
L8 67.1
L25 64.9
L50 63.1
SEL 95.0

Comments: Los Osos Valley Road = 2 Lanes (1/1) divided 35mph

Equipment: Larson Davis model 824 Noise Meter

Atmospheric Conditions: AVG MAX
Wind Velocity: 2.5 / 6.5 (MPH); Temperature: 64.6 (F)
Relative Humidity: 39 (%)

Test Personnel: Jason Lui

Los Osos Valley Road (WB/EB)
Auto = 177/185
MED = 7/6
HEAVY = 2/2

US 101 (NB/SB)
Auto = 330/445
MED = 17/13
HEAVY = 16/16

Sheet _____ of _____

NOISE MEASUREMENT SURVEY

Site Number: 7 Date: 3-15-06 Time: From 2:19 To 2:39

Site Location: 3 Los Verdes Drive; on the north side of Los Osos Valley Road; in the middle of the drive way.

Noise Sources: Traffic on Los Osos Valley Road and Los Verdes Drive, vehicle start-up noise

Measurement Results (dBA)

Leq 64.9
Lmax 82.8
Lmin 53.8
Lpeak 116.8
L2 72.1
L8 67.4
L25 64.7
L50 62.2
SEL 95.7

Comments: Los Osos Valley Road = 2 Lanes (1/1) divided 35 mph

Equipment: Larson Davis model 824 Noise Meter

Atmospheric Conditions: Wind Velocity: Avg 1.2 / Max 4.4 (MPH); Temperature: 64.3 (F)
Relative Humidity: 42 (%)

Test Personnel: Jason Lui

Los Osos Valley Road (WB/EB)
Auto = 159/189
MED = 9/9
HEAVY = 0/3

US 101 (NB/SB)
Auto = 342/475
MED = 13/18
HEAVY = 15/16

Sheet _____ of _____

NOISE MEASUREMENT SURVEY

Site Number: 8 Date: 3-15-06 Time: From 2:46 To 3:06

Site Location: 7 Los

Noise Sources: Traffic on Los Osos Valley Road, Los Verdes Drive, and Higuera Street

Measurement Results (dBA)

Leq 65.6
Lmax 77.2
Lmin 52.4
Lpeak 72.5
L2 ~~68.9~~
L8 68.9
L25 65.8
L50 64.1
SEL 95.4

Comments: Los Osos Valley Road = 2 Lanes (1/1) divided 35 mph

Equipment: La

Atmospheric Conditions: AVG MAX
Wind Velocity: 2.3/7.7 (MPH); Temperature: 63.9 (F)
Relative Humidity: 38 (%)

Test Personnel: Jason Lui

Los Osos Valley Road (WB/EB)

Auto = 206/180
MED = 11/5
HEAVY = 0/21

Sheet _____ of _____

NOISE MEASUREMENT SURVEY

Site Number: 9 Date: 3-15-06 Time: From 3:22 To 3:42

Site Location: 3 Chuparrosa ; at the cul-de-sac ; in the backyard.
approximately 750 ft from the edge of US 101

Noise Sources: Traffic on US 101 and some aircraft noise

Measurement Results (dBA)

Leq 61.1
Lmax 71.4
Lmin 56.7
Lpeak 89.9
L2 64.7
L8 63.0
L25 61.0
L50 60.7
SEL 91.9

Comments: US 101 = 4 Lanes (2/2) divided 65 mph
Los Osos Valley Road noise not audible
5 ft wood fence with gaps
no view of US 101 due the vegetation

Equipment: Larson Davis model 824 Noise Meter.

Atmospheric Conditions: Avg / Max
Wind Velocity: 2.5 / 8.2 (MPH); Temperature: 58.1 (F)
Relative Humidity: 58 (%)

Test Personnel: Jason Lui

APPENDIX G

TRAFFIC COUNTS

	Traffic Counts					Distribution				Traffic Volume		
Traffic Counts	**Auto**	**Medium**	**Heavy**	**Total**		**Auto**	**Medium**	**Heavy**		**Auto**	**Medium**	**Heavy**
M-1												
Route 101 NB	335	11	15	361		0.93	0.03	0.04		1340	44	60
Route 101 SB	331	13	20	364		0.91	0.04	0.05		1324	52	80
Route 101 NB Off Ramp	107	5	6	118		0.91	0.04	0.05		428	20	24
Los Osos Valley Road W	217	5	5	227		0.96	0.02	0.02		868	20	20
Los Osos Valley Road E	170	6	1	177		0.96	0.03	0.01		680	24	4
M-2												
Route 101 NB	321	10	20	351		0.91	0.03	0.06		1284	40	80
Route 101 SB	337	22	24	383		0.88	0.06	0.06		1348	88	96
Route 101 NB Off Ramp	102	1	1	104		0.98	0.01	0.01		408	4	4
Los Osos Valley Road W	197	2	1	200		0.99	0.01	0.01		788	8	4
Los Osos Valley Road E	203	13	2	218		0.93	0.06	0.01		812	52	8
M-3												
Route 101 NB	333	9	3	345		0.97	0.03	0.01		1332	36	12
Route 101 SB	361	15	15	391		0.92	0.04	0.04		1444	60	60
Route 101 NB Off Ramp	94	6	3	103		0.91	0.06	0.03		376	24	12
Los Osos Valley Road W	163	2	1	166		0.98	0.01	0.01		650	8	4
Los Osos Valley Road E	181	9	1	191		0.95	0.05	0.01		724	36	4
M-4												
Route 101 NB	306	9	12	327		0.94	0.03	0.04		1224	36	48
Route 101 SB	431	17	20	468		0.92	0.04	0.04		1724	68	80
Route 101 NB Off Ramp	114	7	2	123		0.93	0.06	0.02		456	28	8
Los Osos Valley Road W	128	2	1	131		0.98	0.02	0.01		512	8	4
Los Osos Valley Road E	159	5	0	164		0.97	0.03	0.00		636	20	0

M-5												
Route 101 NB	311	15	11	337		0.92	0.04	0.03		1244	60	44
Route 101 SB	469	15	16	500		0.94	0.03	0.03		1876	60	64
Route 101 NB Off Ramp	107	7	1	115		0.93	0.06	0.01		428	28	4
Los Osos Valley Road W	130	3	1	134		0.97	0.02	0.01		520	12	4
Los Osos Valley Road E	213	4	4	221		0.96	0.02	0.02		852	16	16
M-6												
Route 101 NB	330	17	16	363		0.91	0.05	0.04		1320	68	64
Route 101 SB	445	13	16	474		0.94	0.03	0.03		1780	52	64
Route 101 NB Off Ramp	108	8	2	118		0.92	0.07	0.02		432	32	8
Los Osos Valley Road W	177	7	2	186		0.95	0.04	0.01		708	28	8
Los Osos Valley Road E	185	6	2	193		0.96	0.03	0.01		740	24	8
M-7												
Route 101 NB	342	13	15	370		0.92	0.04	0.04		1368	52	60
Route 101 SB	475	18	16	509		0.93	0.04	0.03		1900	72	64
Route 101 NB Off Ramp	94	6	3	103		0.91	0.06	0.03		376	24	12
Los Osos Valley Road W	159	9	0	168		0.95	0.05	0.00		636	36	0
Los Osos Valley Road E	189	9	3	201		0.94	0.04	0.01		756	36	12
M-8												
Route 101 NB	375	19	13	407		0.92	0.05	0.03		1500	76	52
Route 101 SB	501	22	13	536		0.93	0.04	0.02		2004	88	52
Route 101 NB Off Ramp	118	8	0	126		0.94	0.06	0.00		472	32	0
Los Osos Valley Road W	206	11	0	217		0.95	0.05	0.00		824	44	0
Los Osos Valley Road E	180	5	21	206		0.87	0.02	0.10		720	20	84
Higuera NB and SB	122	6	4	132		0.92	0.05	0.03		488	24	16
M-9												
Route 101 NB	419	18	8	445		0.94	0.04	0.02		1676	72	32
Route 101 SB	582	9	22	613		0.95	0.01	0.04		2328	36	88
Route 101 NB Off Ramp	140	3	0	143		0.98	0.02	0.00		560	12	0
Los Osos Valley Road W	181	9	1	190		0.95	0.05	0.00		723	36	3
Los Osos Valley Road E	185	7	9	200		0.92	0.03	0.04		739	27	35

Average Existing Volumes											
Route 101 NB					0.93	0.04	0.03		1365	54	50
Route 101 SB					0.93	0.04	0.04		1748	64	72
Route 101 NB Off Ramp					0.93	0.05	0.02		437	23	8
Los Osos Valley Road WB					0.96	0.03	0.01		692	22	5
Los Osos Valley Road EB					0.94	0.04	0.02		740	28	19

APPENDIX H

SOUND LEVEL METER CALIBRATION CERTIFICATIONS

CALIBRATION CERTIFICATION

FOR LARSON DAVIS MODEL 720

Excalibur Engineering
9201 Irvine Blvd
Irvine, CA 92618
Phone : (949) 454-6603
Fax : (949) 454-6642

Certificate Of Calibration

Customer	LSA	**Dept.**	N/A
Report #	41132-1	**Bar Code #**	
Date Received	WEDNESDAY, JULY 5, 2006	**P.O. #**	VERBAL-JASON
Manufacturer	LARSON DAVIS	**Serial #**	0117
Model #	720	**Asset #**	NAN
Description	SOUND LEVEL METER		

Calibration Information

Date Calibrated 7/19/2006 **Calibration Due Date** 7/19/2007 **Calibration Interval** 12

Maintenance Procedure 4226

Temperature 23 ° C **Humidity** 40 % **Calibration Performed By** 2

Accuracy ANSI TYPE 2

Condition Received

Received In Tolerance

Remarks Unit meets ANSI Type 1 specifications under laboratory conditions.

Condition Returned

Returned In Tolerance

Remarks

Standards Employed

ID #	Manufacturer	Model #	Description	Calibration Expires
878	BRUEL & KJAER	4226	SLM CALIBRATOR	11/9/2006
713	FLUKE	8920A	20 MHZ TRUE RMS VOLTMETER	7/13/2007

Excalibur Engineering, Inc. certifies that the instrument specified above meets the manufacturer's specifications and has been calibrated using Standards and Instruments also listed above whose accuracies are traceable to the National Institute of Standards and Technology(NIST), and the calibration systems and records are in compliance to ISO-10012 and ANSI Z540-1-1994.

This certificate/report shall not be reproduced without written approval of Excalibur Engineering, Inc.

EEQA 6

JUL 20 2006

Approved By

Excalibur Engineering is not liable for any damages, consequences or any remedy regarding this certification with the exception of the calibration within 30 days

Excalibur Engineering
9201 Irvine Blvd
Irvine, CA 92618
Phone : (949) 454-6603
Fax : (949) 454-6642

Certificate Of Calibration

Customer	LSA	**Dept.**	N/A
Report #	41132-2	**Bar Code #**	
Date Received	WEDNESDAY, JULY 5, 2006	**P.O. #**	VERBAL-JASON
Manufacturer	LARSON DAVIS	**Serial #**	0125
Model #	CA150	**Asset #**	NAN
Description	CALIBRATOR		

Calibration Information

Date Calibrated 7/19/2006 **Calibration Due Date** 7/19/2007 **Calibration Interval** 12

Maintenance Procedure 1211

Temperature 23 ° C **Humidity** 40 % **Calibration Performed By** 2

Accuracy ± .5 dB

Condition Received

Received In Tolerance

Remarks

Condition Returned

Returned In Tolerance

Remarks See attached data sheet

Standards Employed

ID #	Manufacturer	Model #	Description	Calibration Expires
043	BRUEL & KJAER	4190	1/2" CONDENSER MICROPHONE	4/24/2007
051	BRUEL & KJAER	2639	MICROPHONE PREAMPLIFIER	1/16/2007
949	BRUEL & KJAER	2636	MEASURING AMPLIFIER	12/21/2006
938	AGILENT	8903B	20HZ100KHZ AUDIO ANALYZER	12/28/2006
713	FLUKE	8920A	20 MHZ TRUE RMS VOLTMETER	7/13/2007
610	BRUEL & KJAER	4228	PISTONPHONE	10/20/2006

Excalibur Engineering, Inc. certifies that the instrument specified above meets the manufacturer's specifications and has been calibrated using Standards and Instruments also listed above whose accuracies are traceable to the National Institute of Standards and Technology(NIST), and the calibration systems and records are in compliance to ISO-10012 and ANSI Z540-1-1994.

This certificate/report shall not be reproduced without written approval of Excalibur Engineering, Inc.

EEQA 6

JUL 20 2006

Approved By

Excalibur Engineering is not liable for any damages, consequences or any remedy regarding this certification with the exception of the calibration within 30 days

EXCALIBUR ENGINEERING
EQUIPMENT SPECIFICATION SHEET

Manufacturer:	**LARSON DAVIS**	**Model:**	**CA150**	**Procedure:**	**1211**
Work Order:	**41132-2**	**Serial:**	**0125**	**Asset:**	**NAN**

RANGE/FUNCTION	APPLIED	AS FOUND	AS LEFT	TOLERANCE
S.P.L	94.0 dB	94.02 dB	94.02 dB	±0.5 dB
	114.0 dB	113.97 dB	113.97 dB	±0.5 dB
FREQUENCY	1000 Hz	999.7 Hz	999.7 Hz	±1% I.V.
DISTORTION		1.39%		<3%

*** Denotes out of tolerance condition.**

~ Certificate of Calibration and Compliance ~

Microphone Model: 377A60 Serial Number: 101355 Manufacturer: PCB

Calibration Environmental Conditions

Environmental test conditions as printed on microphone calibration chart.

Reference Equipment

Manufacturer	Model #	Serial #	PCB Control #	Cal Date	Due Date
Hewlett Packard	34401A	MY41045214	LD-001	3/17/05	3/17/06
Larson Davis	PRM915	113	TA-470	2/17/05	2/17/06
Larson Davis	PRM902	2699	TA-468	2/2/05	2/2/06
Larson Davis	PRM916	104	LD-015	2/23/05	2/23/06
Larson Davis	CAL250	4118	TA-463	2/17/05	2/17/06
Larson Davis	2201	115	TA-472	2/26/05	2/26/06
Larson Davis	2900	1079	TA-473	7/1/05	6/30/06
Larson Davis	PRA951-4	222	LD-026	8/26/05	8/25/06
Larson Davis	PRM902	2892	LD-004	3/17/05	3/17/06
Larson Davis	PRM902	2891	LD-003	3/17/05	3/17/06
Larson Davis	2559LF	3035	LD-005	3/17/05	3/17/06
PCB	377A41	1011	LD-013	11/24/05	2/24/06
Larson Davis	ADP005	1	LD-017	3/15/05	3/15/07
Fisher Scientific	02-400	41440497	LD-014	11/20/05	11/20/06

Condition of Unit

As Found: N/A

As Left: New unit in tolerance

Notes

1. Calibration of reference microphone is traceable through PTB.
2. This certificate shall not be reproduced, except in full, without written approval from PCB Piezotronics, Inc.
3. Calibration is performed in compliance with ISO 9001, ISO 10012-1, ANSI/NCSL Z540-1-1994 and ISO 17025.
4. See Manufacturer's Specification Sheet for a detailed listing of performance specifications.
5. Open circuit sensitivity is measured using the insertion voltage method following procedure AT603-5.
6. Measurement uncertainty (95% confidence level with coverage factor of 2) for sensitivity is +/-0.20 dB.
7. A one-year calibration is recommended, however calibration interval assignment and adjustment are the responsibility of the end user.

Technician: Christopher D. Kohler CDK Date: January 30, 2006

ACCREDITED
Cert. No. 1862.01

PCB PIEZOTRONICS INC
VIBRATION DIVISION
3425 Walden Avenue, Depew, New York, 14043
TEL: 888-684-0013 FAX: 716-685-3886 www.pcb.com

ID:3221494953.507

~ Calibration Report ~

Microphone Model: 377A60 Serial Number: 101355 Description: 1/2" Random-Incidence Microphone

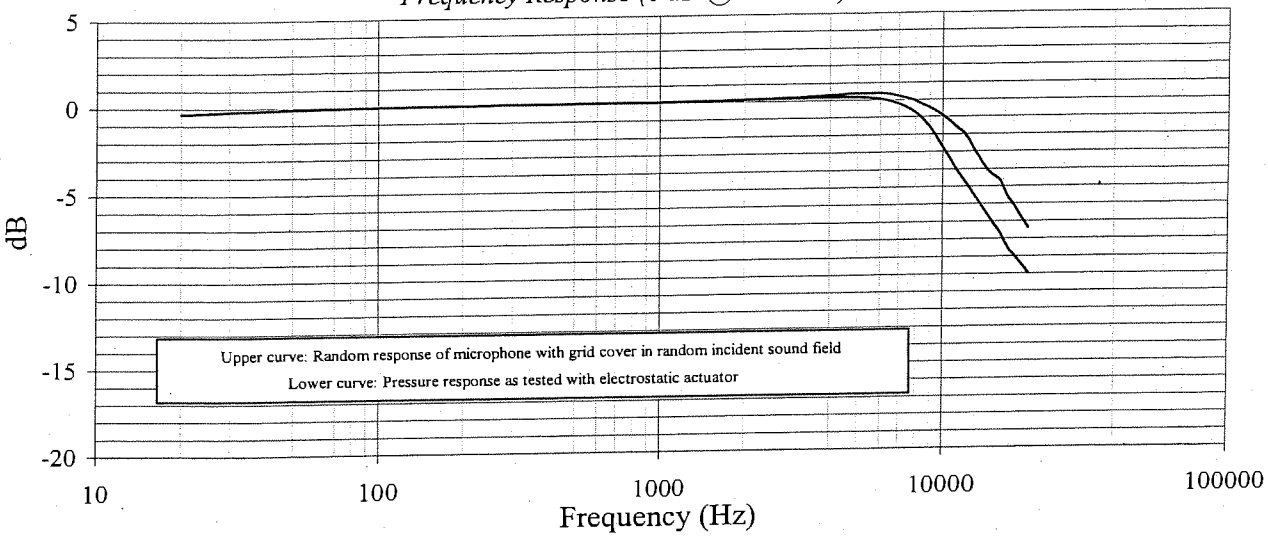
Calibration Data

Open Circuit Sensitivity @ 251.2 Hz: 48.81 mV/Pa
-26.23 dB re 1V/Pa

Polarization Voltage, External: 200 V
Capacitance: 18.7 pF

Temperature: 69 °F (21°C) Ambient Pressure: 976 mbar Relative Humidity: 37 %

Frequency Response (0 dB @ 251.2 Hz)



Freq (Hz)	Lower (dB)	Upper (dB)	Freq (Hz)	Lower (dB)	Upper (dB)	Freq (Hz)	Lower (dB)	Upper (dB)	Freq (Hz)	Lower (dB)	Upper (dB)
20.0	-0.35	-0.35	1584.9	0.08	0.08	6683.4	-0.13	0.29	-	-	-
25.1	-0.27	-0.27	1678.8	0.08	0.08	7079.5	-0.27	0.19	-	-	-
31.6	-0.21	-0.21	1778.3	0.10	0.10	7498.9	-0.47	0.07	-	-	-
39.8	-0.16	-0.16	1883.7	0.11	0.11	7943.3	-0.72	-0.04	-	-	-
50.1	-0.12	-0.12	1995.3	0.11	0.11	8414.0	-1.05	-0.25	-	-	-
63.1	-0.09	-0.09	2113.5	0.12	0.12	8912.5	-1.50	-0.44	-	-	-
79.4	-0.07	-0.07	2238.7	0.12	0.13	9440.6	-2.07	-0.67	-	-	-
100.0	-0.05	-0.05	2371.4	0.13	0.14	10000.0	-2.74	-0.94	-	-	-
125.9	-0.03	-0.03	2511.9	0.14	0.15	10592.5	-3.37	-1.25	-	-	-
158.5	-0.02	-0.02	2660.7	0.16	0.17	11220.2	-4.06	-1.61	-	-	-
199.5	-0.01	-0.01	2818.4	0.17	0.19	11885.0	-4.68	-1.99	-	-	-
251.2	0.00	0.00	2985.4	0.16	0.19	12589.3	-5.29	-2.67	-	-	-
316.2	0.01	0.01	3162.3	0.16	0.20	13335.2	-5.88	-3.30	-	-	-
398.1	0.02	0.02	3349.7	0.17	0.23	14125.4	-6.49	-3.95	-	-	-
501.2	0.02	0.02	3548.1	0.18	0.26	14962.4	-7.07	-4.35	-	-	-
631.0	0.03	0.03	3758.4	0.18	0.28	15848.9	-7.69	-4.69	-	-	-
794.3	0.03	0.03	3981.1	0.19	0.31	16788.0	-8.48	-5.53	-	-	-
1000.0	0.04	0.04	4217.0	0.19	0.33	17782.8	-8.99	-6.10	-	-	-
1059.3	0.05	0.05	4466.8	0.18	0.35	18836.5	-9.49	-6.81	-	-	-
1122.0	0.05	0.05	4731.5	0.18	0.38	19952.6	-10.02	-7.40	-	-	-
1188.5	0.06	0.06	5011.9	0.16	0.39	-	-	-	-	-	-
1258.9	0.06	0.06	5308.8	0.14	0.39	-	-	-	-	-	-
1333.5	0.07	0.07	5623.4	0.10	0.39	-	-	-	-	-	-
1412.5	0.07	0.07	5956.6	0.05	0.38	-	-	-	-	-	-
1496.2	0.08	0.08	6309.6	-0.02	0.35	-	-	-	-	-	-

Technician: Christopher D. Kohler CDK Date: January 30, 2006

ACCREDITED
Cert. No. 1862.01

PCB PIEZOTRONICS INC
VIBRATION DIVISION

3425 Walden Avenue, Depew, New York, 14043
TEL: 888-684-0013 FAX: 716-685-3886 www.pcb.com

ID:3221494953.507

CALIBRATION CERTIFICATION

FOR LARSON DAVIS MODEL 824

Certificate of Calibration and Conformance

Certificate Number 2006-79199

Instrument Model CAL200, Serial Number 4973, was calibrated on 18APR2006. The instrument meets factory specifications per Procedure D0001.8190.

New Instrument
Date Calibrated: 18APR2006
Calibration due: 18JUN2007

Calibration Standards Used

MANUFACTURER	MODEL	SERIAL NUMBER	INTERVAL	CAL. DUE	TRACEABILITY NO.
Hewlett Packard	34401A	US36033460	16 Months	27MAY2006	277736
Hewlett Packard	34401A	3146A10352	12 Months	24JUN2006	281920
Larson Davis	2559	2504	12 Months	30JUN2006	13372
Larson Davis	MTS1000/2201	0111	12 Months	08SEP2006	2005-0908-1
Larson Davis	PRM915	0112	12 Months	14SEP2006	2005-72135
Larson Davis	PRM902	0480	12 Months	14SEP2006	2005-72134
Schaevitz	P3061-15PSIA	17588	12 Months	16FEB2007	287327
Larson Davis	2900	0661	12 Months	04APR2007	2006-78704

Reference Standards are traceable to the National Institute of Standards and Technology (NIST)

Calibration Environmental Conditions

Environmental test conditions as shown on calibration report.

Affirmations

This Certificate attests that this instrument has been calibrated under the stated conditions with Measurement and Test Equipment (M&TE) Standards traceable to the U.S. National Institute of Standards and Technology (NIST). All of the Measurement Standards have been calibrated to their manufacturers' specified accuracy / uncertainty. Evidence of traceability and accuracy is on file at Corporate Headquarters. An acceptable accuracy ratio between the Standard(s) and the item calibrated has been maintained. This instrument meets or exceeds the manufacturer's published specification unless noted.

This calibration complies with the requirements of ISO 17025 and ANSI Z540. The collective uncertainty of the Measurement Standard used does not exceed 25% of the applicable tolerance for each characteristic calibrated unless otherwise noted.

The results documented in this certificate relate only to the item(s) calibrated or tested. A one year calibration is recommended, however calibration interval assignment and adjustment are the responsibility of the end user. This certificate may not be reproduced, except in full, without the written approval of the issuer.

Signed: Scott Montgomery
Technician: Scott Montgomery

Larson Davis A PCB GROUP CO.

Larson Davis, Inc. is an ISO 9001-2000 Registered Company

1681 West 820 North • Provo, UT 84601 U.S.A. • 801.375.0177 • Fax: 801.375.0182 • www.larsondavis.com

Larson Davis
A PCB Group Co.

Larson Davis CAL200 Acoustic Calibrator, SN: 4973
Certificate of Measured Output

Acoustic Calibrator

Nominal Level (dB SPL):	114	94
Measured Level (dB SPL):	**114.00**	**93.99**
Expanded Uncertainty (dB):	0.099	0.107
Nominal Frequency (Hz):	1000	1000
Measured Frequency (Hz):	**1000.2**	**1000.2**
Expanded Uncertainty (Hz):	0.2	0.2

The data is aquired by the insert voltage calibration method using a reference microphone's open circuit sensitivity.

Environmental Conditions

Temperature (°C):	25	25
Relative Humidity (%):	22	22
Pressure (kPa):	101.4	101.4

Reference Microphone

Model: Larson Davis 2559
Serial Number: 2504
Sensitivity: 11.460 mV/Pascal
Uncertainty: 0.060 dB

Influence of Static Pressure

Nominal Level (dB SPL): 114

Nominal Pressure (kPa)	Pressure (kPa)	Sensitivity (dB)
108.0	107.9	-0.04
101.3	101.3	0.00
92.0	91.9	0.05
83.0	83.0	0.07
74.0	73.9	0.06
65.0	65.1	-0.01
Expanded Uncertainty:	1.2	0.04

Reference microphone corrections applied.

Environmental Conditions

Temperature (°C):	23
Relative Humidity (%):	28

Reference Microphone

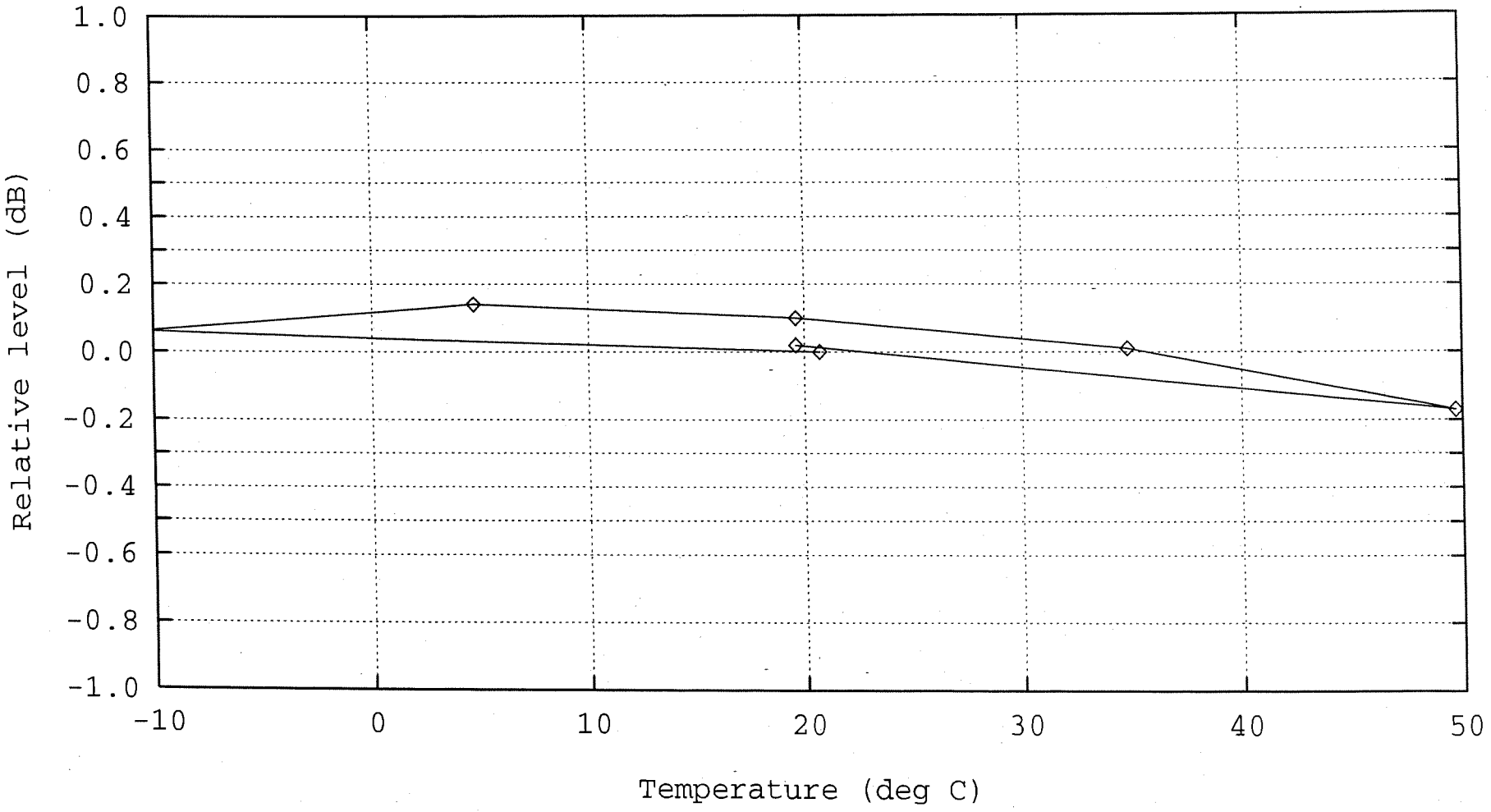
Model: Larson Davis 2559
Serial Number: 2504

Static pressure was measured with a calibrated Motorola pressure sensor MPX2100AP.
Expanded uncertainty of environmental measurements: 2 °C, 3 %RH, 1.2 kPa
Uncertainty values are given at 95% confidence level (k = 2).

A Sound Level Meter can be calibrated to a level (L) defined as: L = measured level + pressure sensitivity
or if a Sound Level Meter is calibrated using the nominal level, the adjustments to data (X) are defined as:
X = measured level - nominal level - pressure sensitivity

13 Apr. 2006

CAL200*4973/7

Relative SPL vs. Temp at 50% RH

A 2559 Mic is used to check the levels