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TRANSPORTATION MANAGEMENT PLAN AND ROADWAY ANALYSIS FOR THE CANTINAS CELEBRATION OF THE ARTS CAMP – LAKE NACIMIENTO AREA, SAN LUIS OBISPO COUNTY

Associated Transportation Engineers (ATE) is providing the following traffic analysis for the Cantinas Celebration of the Arts Camp proposed in the Nacimiento Planning Area of San Luis Obispo County. The project description and transportation plan were previously submitted to the County of San Luis Obispo. County staff reviewed the information and provided comments. The Cantinas Camp team then reviewed the County's comments and made numerous changes to the project to address the comments. The major change that affects transportation is the use of 15 passenger vans to transport camp guests in lieu of the tour buses that were previously planned.

Project Description

Cantinas Celebration of the Arts Camp is located in the Oak Shores area of Lake Nacimiento. The camp will be operated as a "reservation only" facility. There will no activities or events open to the "general public". Cantinas Camp will accommodate up to 200 campers and provide programs to enhance and/or develop their interest and skills in the fields of music, drama and arts. The camp program is directed towards Christian church congregations, families and youth ministries. The Christian atmosphere and natural setting will facilitate the development of an awareness and appreciation of nature and the great outdoors. Weekly camp programs will begin on Sunday and end on the following Saturday. The program will require administrative, maintenance and support staff of up approximately 100 during peak periods.

Access to Cantinas Camp is provided via Lynch Canyon Road, which connects to Interlake Road (County Highway G14) on the north side of Lake Nacimiento. Interlake Drive extends easterly from Lynch Canyon Road to Nacimiento Lake Drive (County Highway G 19), which continues northerly to the City of Paso Robles and U.S. Highway 101. Figure 1 shows the location of Cantinas Camp and the roadway network that provides access to the site.

Transportation Management Plan

Camp Guests. The camp operations plan is to have various churches and non-profit youth organizations from central and southern California assemble in groups of 40 to 50 persons. Those groups would attend one- to two-week programs at Cantinas Camp. The camp is expected to draw campers from the following geographic areas:

- Los Angeles Area
- Riverside/San Bernardino Area
- Fresno/Bakersfield Area
- Sacramento/Stockton Area
- Monterey Bay Area
- San Francisco/Oakland Area

A maximum of 200 campers would be accommodated on the site. Groups will travel primarily via busses from their points of origin on Sunday morning to designated assembly points in Paso Robles. The plan is to assemble at affiliated churches in the Paso Robles area. Campers will arrive on Sunday afternoon at the designated assembly points in Paso Robles and be transported to Cantinas Camp via a fleet of 15-passenger vans. On Saturdays the camp vans will transport the campers to their assembly points in Paso Robles for their return trip home. Should some camp staff want to leave the site on Saturday, their departure would occur after the campers have departed. The arrival and departure of the camp vans will be staggered to avoid platoons of vehicles traversing Lynch Canyon Road. The 15-passenger vans will be stored in a covered building on the Cantinas Camp site when not in use.

Camp Staff. Except for the administrative and food service personnel, the majority of camp staff will remain at the camp site during the camp program. Some staff will utilize the camp vans for transportation and some staff will carpool and/or drive private automobiles. It is anticipated that there will be a set van schedule to accommodate the random personal staff trips that could occur during the mid-week period (e.g. medical appointments and other personal trips). Although most program staff will remain on site throughout the summer operating season, the traffic analysis assumes that some staff will leave the site during the change over period and at other times during the week in order to provide a conservative analysis of roadway operations.

Parking will be provided in an 8-space (1 ADA space) surface parking lot located behind the security building and a 24-space (2 ADA spaces) surface parking lot located near the van storage building. Two additional covered parking spaces will be provided at the Mission Complex building. Cantinas Camp proposes to limit the number of staff vehicles allowed on-site to 31 vehicles.

Deliveries. Food and other required camp materials will be delivered to the site using small delivery vans. It is estimated that there will be up to 7 deliveries per week. Camp vans may also supplement deliveries when traveling to/from Paso Robles during the week for employee pick-ups and drop-offs.

Cantinas Camp Trip Generation Estimates

Trip generation estimates were developed for Cantinas Camp based on the operational information reviewed above. The estimates include trips made by the staff required to operate and maintain the facility as well as the camp staff that would provide the education and training for the campers participating in the weeklong program. The specific staff numbers and duty assignments are detailed on the staffing list (copy attached). The trip generation analysis assumes a maximum of 200 campers and 100 staff. The trip generation estimates include trips made by the camp vans shuttling campers and staff to/from the Paso Robles area as well as delivery trips. Based upon the staffing list and the camp operations plan, an estimate of daily trips was developed for each day of the week to produce a seven-day average. Table 1 summarizes the trip generation estimates. A spreadsheet showing the trip calculations is attached for reference.

**Table 1
Cantinas Camp Trip Generation Estimates**

Component	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	7-Day Average
Staff	60	60	48	48	48	48	48	51
Camp Vans	40	40	6	6	6	6	6	16
Deliveries	4	4	2	2	2	2	2	3
Total	104	104	56	56	56	56	56	70

The data presented in Table 1 show that the Cantinas Camp weekly operations would generate 70 average daily trips (ADT) during the peak operating period. Saturday and Sunday are the peak volume days due to the camp programs beginning and ending. The daily volume on those days is projected at 104 ADT.

Lynch Canyon Road Operations

Lynch Canyon Road extends southwesterly from Interlake Drive - providing access to Oaks Shores Drive and the Cantinas Camp site. Traffic counts conducted by ATE in the summer of 2008 indicate that the segment of Lynch Canyon Road east of Oaks shores drive carries 712 ADT and the segment west of Oak Shores Drive carries 51 ADT (see Figure 2).

The paved segment of Lynch Canyon Road ends just west of Oak Shores Drive. The transition from paved to gravel surface is shown on Exhibit 1. From the end of the pavement to beyond the project entrance, Lynch Canyon Road is a graveled road that varies from 24+ feet to ± 12 feet at the cattle guards and other narrower areas (see Exhibits 2 and 3). There are wide areas along the road where vehicles can pull over and let opposing vehicles pass (see Exhibit 4). This procedure is the common protocol when traversing rural roads like Lynch Canyon Road.

The existing width and alignment of Lynch Canyon Road can accommodate the 15-passenger vans as well as the increase in average daily traffic generated by the project (+70 ADT). A prudent driver travels the road in the 20 to 25 mph range. The sight distances at the curves and at the narrow sections of the road are adequate for drivers to adjust their speed and/or "pull over" to allow the opposing traffic to pass. Lynch Canyon Road crosses a drainage channel that has several large corrugated metal pipes to convey water (see Exhibit 5). There are wider areas on each side of this location where vehicles can wait for opposing traffic to cross the drainage channel. Various locations along the route are depicted on the attached Exhibits 6-11.

Roadway Safety Analysis

County staff was contacted to obtain traffic accident data for Lynch Canyon Road. There was one reported traffic accident in the project area in the last 5 years where a car "ran off the road" on Lynch Canyon Road near Oak Shores Drive.

The Cantinas Camp operational program does not allow the general public to visit the site. All campers will be pre-registered and will be required to utilize the Cantinas Camp shuttle vans for travel to/from the designated assembly points in the Paso Robles area. The majority of Cantinas Camp staff will also utilize the Cantinas Camp vans for transportation. As previously discussed, the trip generation estimates developed for the project include the staff and other non-public delivery trips. The County's criteria for Roadway Safety Analysis is generally based on "general public trips" and is not required when there are no general public trips. Staff at Cantinas Camp will be the drivers using the roadway and they will be provided written documentation and training regarding the protocol and acceptable speeds for traveling along the gravel section of Lynch Canyon Road.

Given the existing character of the road, the existing and projected roadway traffic volumes, and the historical accident data, it is recommended that Lynch Canyon Road not be widened. The ambiance and nature of the current roadway induces drivers to travel at low speeds and use caution. Changing the character by widening the roadway and removing trees and other existing "traffic calming" restrictions would tend to increase travel speeds and reduce driver vigilance in the area. Instead, it is recommended that signage be installed informing drivers of the approaching one-lane sections (at the cattle guards and culvert crossings) in order to enhance safety along the narrower sections.

Roadway Maintenance

Lynch Canyon Road is a gravel road that is in good condition. The project would add 70 ADT to the roadway during the operational periods (total ADT 121), which would not significantly degrade the roadway structure. The additional traffic could, however, accelerate the need for maintenance. The project applicant has indicated that they are willing to enter into a roadway maintenance agreement with San Luis Obispo County to assist in the ongoing maintenance.

Construction Traffic

The project is proposing to construct all of the camp facilities prior to beginning the camp programs. It is anticipated that the various elements of the camp would be constructed simultaneously (rather than in a phased approach). The construction period is anticipated to last for approximately 24 months.

Traffic generated by construction activities would include workers commuting to and from the site and transportation of construction equipment and materials. No significant import or export of grading materials is anticipated. Cantinas Camp is proposing to implement a traffic and parking management plan during the construction phase of the project. The plan would provide shuttles for construction workers, designate parking and storage areas on-site for all construction vehicles and equipment, establish delivery schedules to avoid peak hour travel periods as feasible, designate appropriate delivery vehicle routes (based on County staff input), and appoint a representative to receive and respond to complaints from the public related to construction activities.

Cantinas Camp would also document the condition of Lynch Canyon Road prior to the beginning of construction and evaluate roadway conditions after construction is completed to determine if repairs are required. It is recommended that County staff and Cantinas Camp management review and concur on the condition of Lynch Canyon Road prior to the start of construction. The repair and/or maintenance of the road after construction would be addressed in the road maintenance agreement previously noted.

Summary and Conclusions

The operation plan for the Cantinas Celebration of the Arts Camp provides for the utilization of 15-passenger vans to transport a maximum of 200 campers per week to/from the site from assembly points in the Paso Robles area. Campers would remain on the site from Sunday afternoon thru Saturday mid-morning. There would not be "general public traffic" since all campers will be pre-registered and utilize the Camp Cantinas shuttle vans. Deliveries and other services will be coordinated by the security staff and would be required to have prior authorization to access the camp. The majority of camp staff would also utilize the vans, and a limited number of staff vehicles (31 vehicles) would be allowed in Cantinas Camp parking area. Security staff will monitor the parking and the entrance gate.

The estimated 7-day average daily traffic generation for the camp during peak periods is 70 ADT. The estimated project ADT on Saturday and on Sunday at full capacity is 104 ADT. Lynch Canyon Road is a graveled road from the end of pavement south of Oak Shores Drive to beyond the project access points with cattle guards, culverts and trees that constrain the width in some locations. The width ranges from 24 feet to ± 12 feet in some areas. Lynch Canyon Road is a rural road that generally serves low intensity ranching. The existing traffic volume is low (51 ADT), and the ambiance and nature of the roadway induces drivers to travel at low speeds and use caution (prudent drivers traverse in the 20 to 25 mph range). There is adequate sight distance for drivers to see oncoming traffic at the narrower locations with enough room for drivers to "pull over" and let the opposing traffic pass.

The number of trips associated with the operation of the Cantinas Camp will not significantly affect the operation of Lynch Canyon Road. Primarily, Cantinas Camp staff will be the drivers using the roadway and they will be provided written documentation and training regarding the protocol and acceptable speeds for traversing the gravel section of Lynch Canyon Road. The Cantinas Camp operation does not allow the "general public" to have access to the site. The roadway configuration can accommodate the 15 passenger vans. The sight distance for vehicles entering and exiting the project entrance is sufficient for the prudent vehicle speed on Lynch Canyon Road. The Cantinas Camp operators are willing to enter into a road maintenance Agreement with the County.

In conclusion, the traffic related to the Cantinas Celebration of the Arts Camp will not significantly affect the operation or maintenance of Lynch Canyon Road from Oak Shores Drive to the project entrance. Given the existing character of the road, the existing and projected roadway traffic volumes, and the historical accident data, it is recommended that Lynch Canyon Road not be widened. Instead, it is recommended that signage be installed informing drivers of the approaching one-lane sections (at the cattle guards and culvert crossings) in order to enhance safety along the narrower sections.

Associated Transportation Engineers



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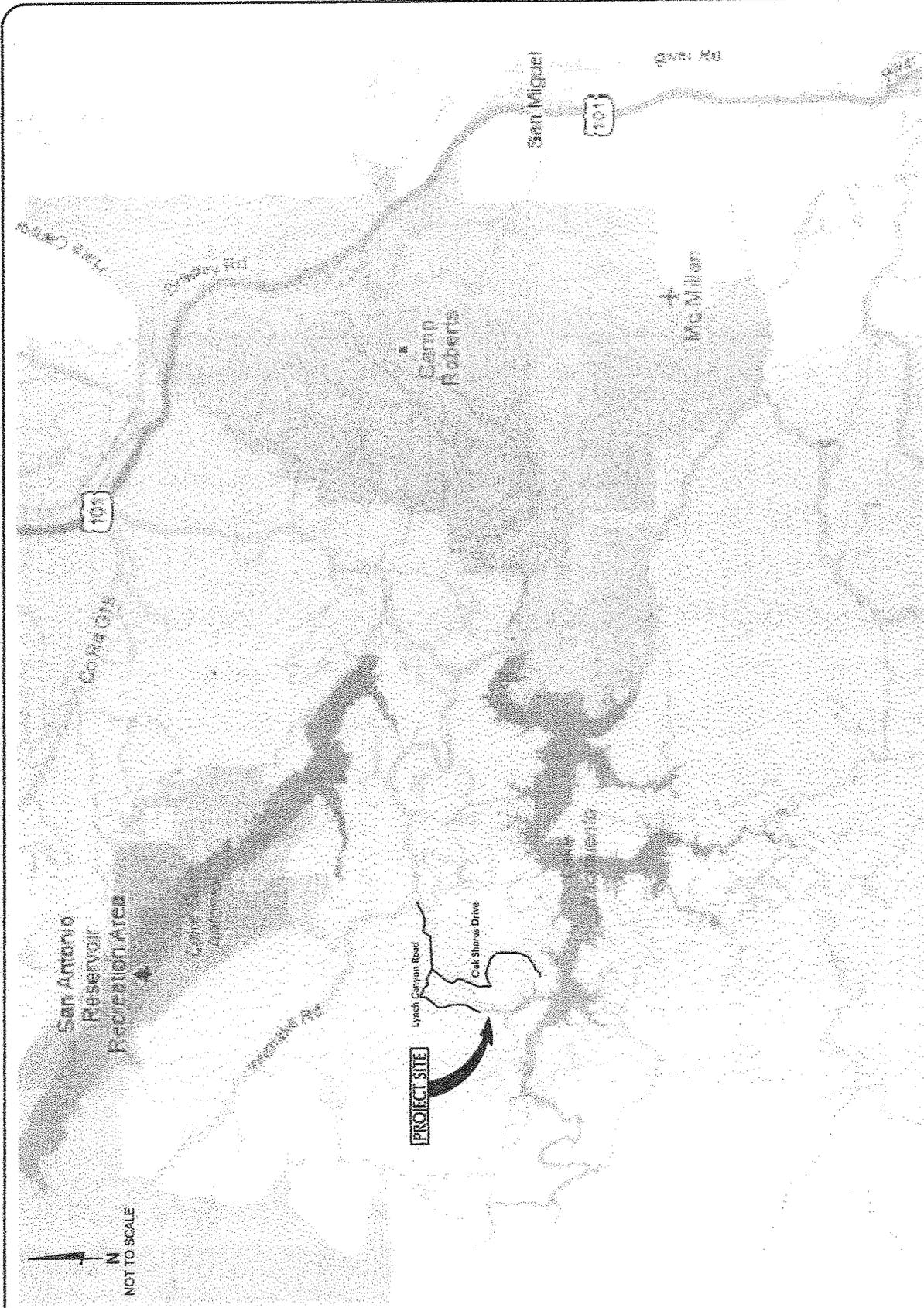
Attachments

- Figure 1 Existing Street Network and Project Location
- Figure 2 Existing Average Daily Traffic Volumes (7-day Average)

- Exhibit 1 Lynch Canyon Road @ Oak Shores Drive
- Exhibit 2 Lynch Canyon Road @ Cattleguard
- Exhibit 3 Lynch Canyon Road @ Narrowing location
- Exhibit 4 Cattle Guard w/widened area
- Exhibit 5 Culvert in Drainage - good sight distance
- Exhibit 6 Lynch Canyon Road typical section
- Exhibit 7- 11 Lynch Canyon Road various locations

- Cantinas Camp Staffing List
- Cantinas Camp Trip Generation Worksheet





NOT TO SCALE
N

FIGURE 1

EXISTING STREET NETWORK AND PROJECT LOCATION

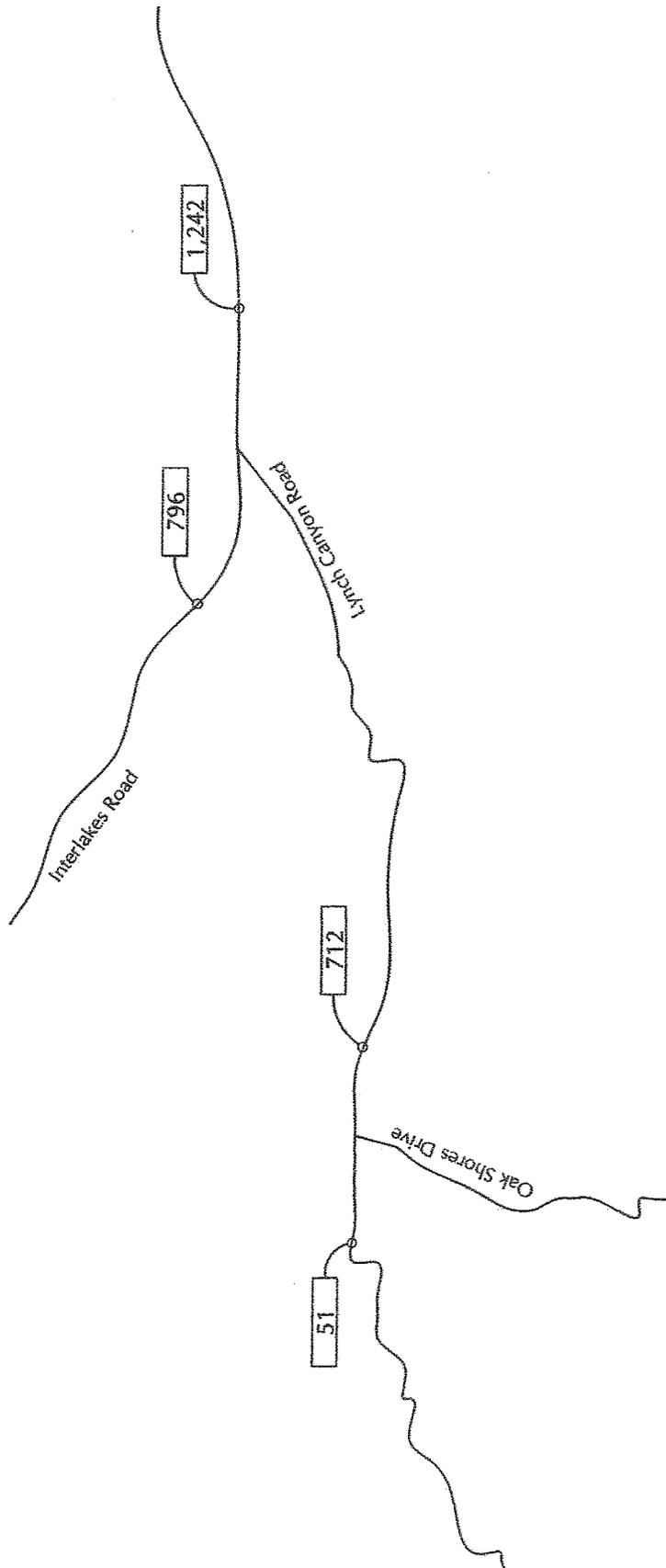
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MAF-#11049



NOT TO SCALE



LEGEND

X - Average Daily Traffic Volume



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EXISTING AVERAGE DAILY TRAFFIC VOLUMES (7-DAY AVERAGE)

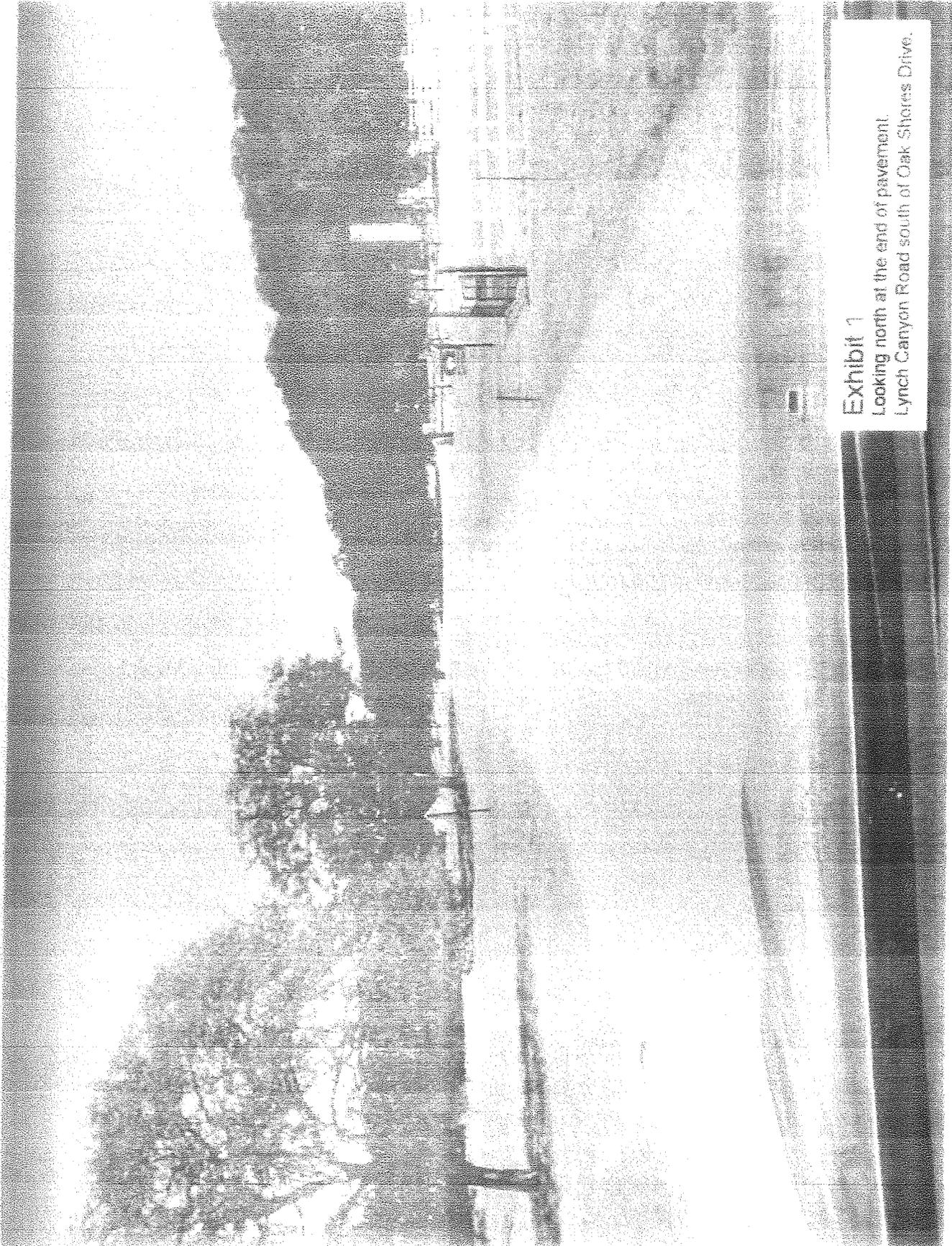


Exhibit 1

Looking north at the end of pavement.
Lynch Canyon Road south of Oak Stores Drive.

Exhibit 2
Lynch Canyon Road at cattle guard





Exhibit 3
Wide area to narrower section of
Lynch Canyon Road.



Exhibit 4

Another cattle guard and approach area.



Exhibit 5
Culvert in drainage area on Lynch Canyon Road.
Good sight distance for opposing traffic.



Exhibit 6
Lynch Canyon Road, Various Locations



Exhibit 7
Lynch Canyon Road, Various Locations

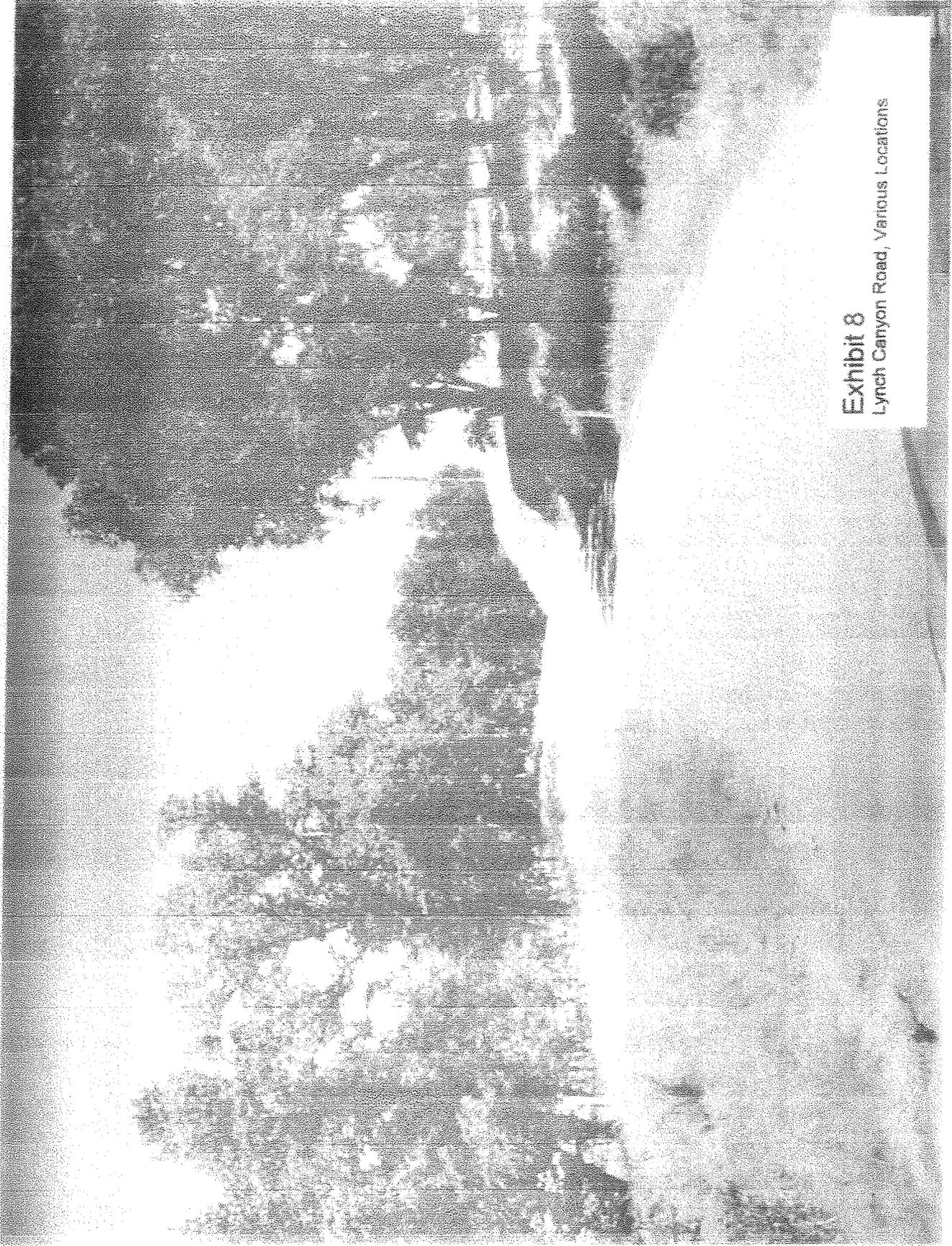


Exhibit 8
Lynch Canyon Road, Various Locations



Exhibit 9
Lynch Canyon Road, Various Locations

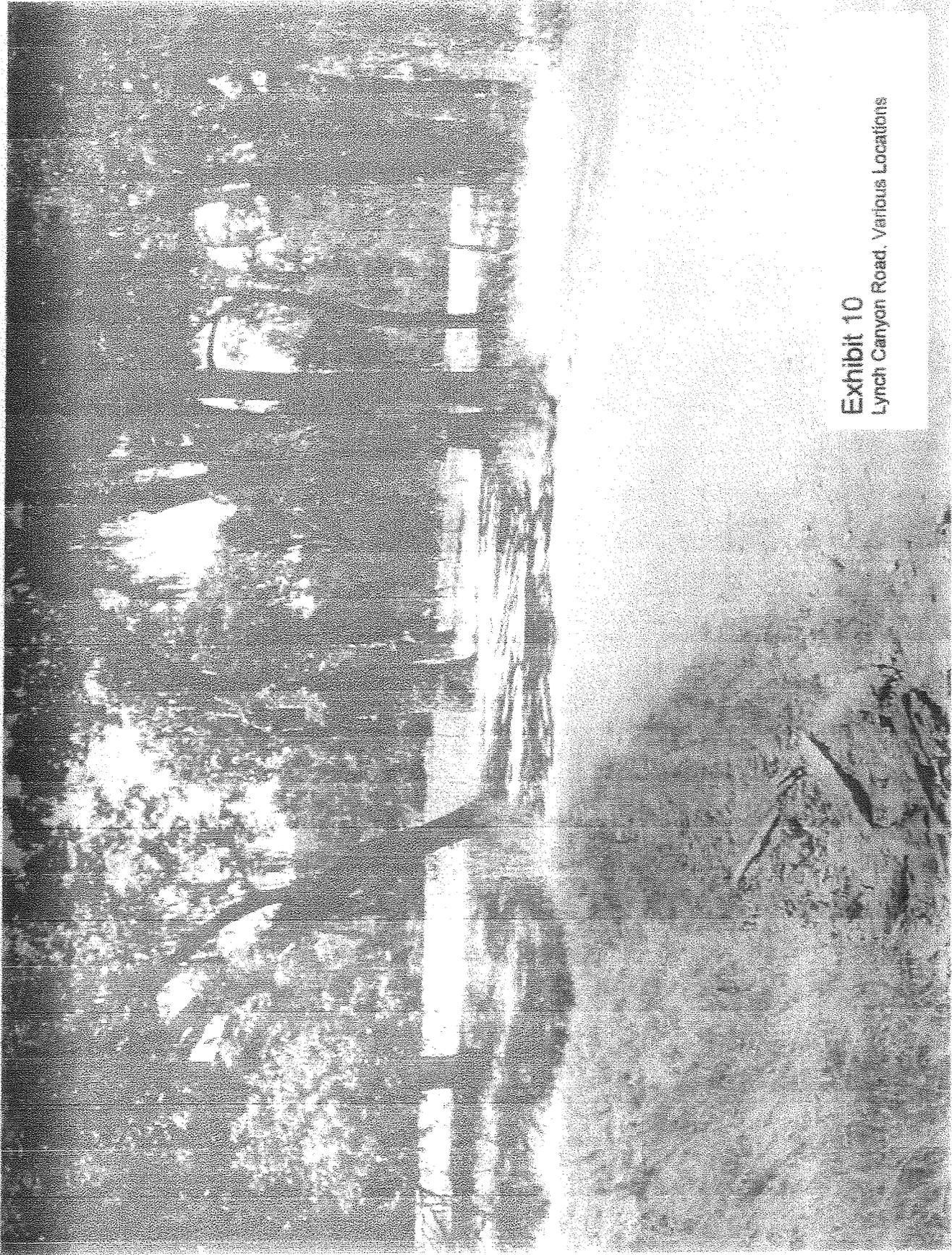


Exhibit 10
Lynch Canyon Road, Various Locations

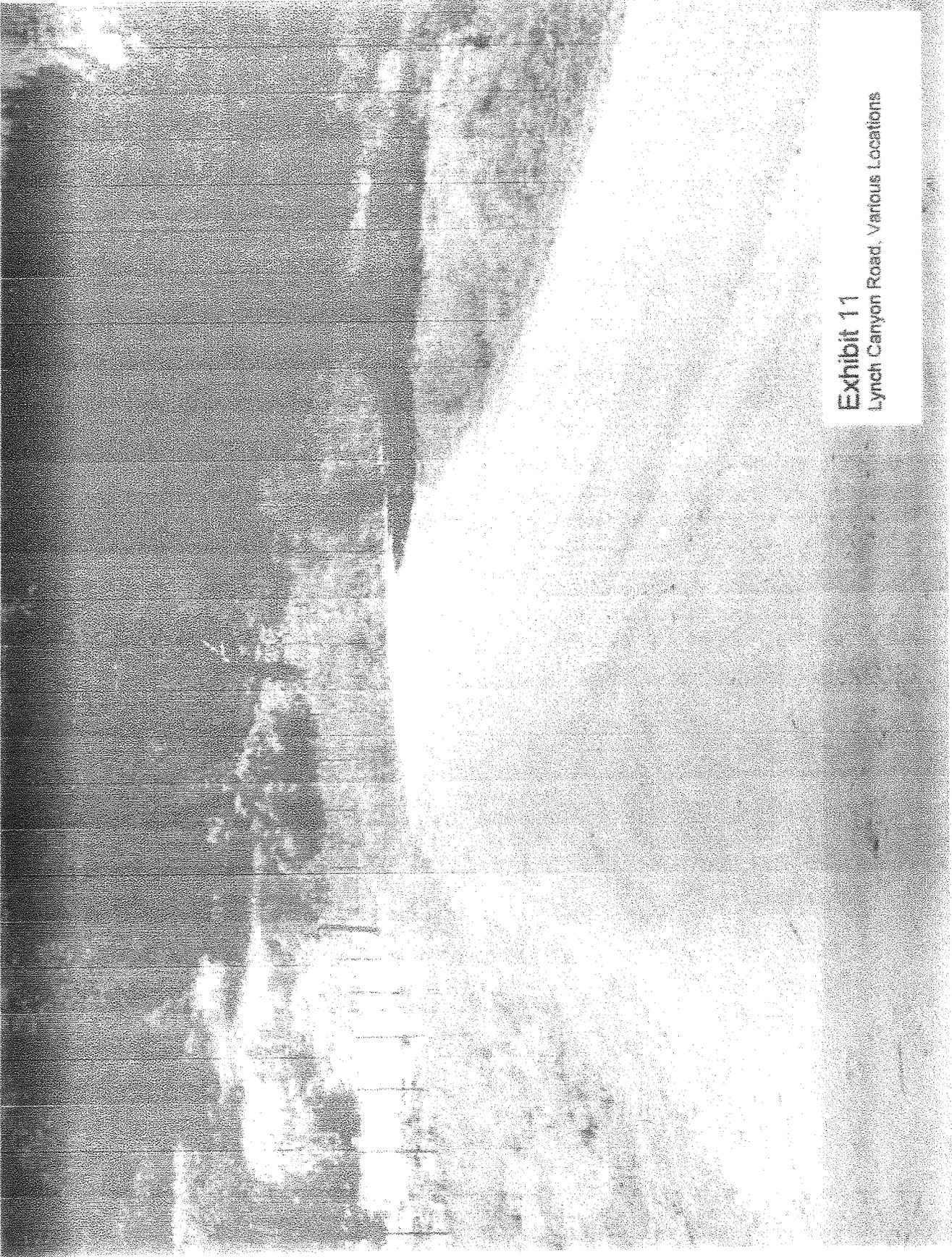


Exhibit 11
Lynch Canyon Road, Various Locations

Cantinas Ranch Staffing

Key

F:full time S:seasonal R:rotational staff P:part time

The number denotes how many employees at this position

Red for living on site at Cantinas Ranch

Purple for living on site at remote location at Cantinas Ranch

Green for living off site

F1- Executive Director-coming & going

F1- Director of Programs and Faculty-on site

F1- Assistant Director of Evening Activity Programs

S2- Musicians/Support Staff

P1- Special Speakers

F1-Head Equestrian Instructor-on site

R3-Wranglers-bunk house

SR6-Aquatic Instructors-below to S1- Seasonal staff

S1-Crafts Instructors

S1-Riflery Instructors

S1-Archery Instructors

F1-Outfitter Instructors

S1-Dance Instructor

S1-Musical Performance Voice Instructor

S1-Musical Performance Instrumental Instructor

S1-Drama Instructor

S1-Multi Media Instructor

S30-Counselors

15-Male

15-Female

Business Office-These 5 people coming & going daily

F2-Secretary

F1-Computer Tech/Media

F1-Public Relations/Community Outreach

F1-Payroll/Accounting

F1-Marketing/Buyer

Cantinas Ranch Staffing - Continued

Merchandising/ Gift and Snack Shops

P1, S3-Cashiers

F1-Director of Ranch Operations/Engineer-living on site

Oversees Septic/ Waste Water Recycle Fields-7 days a week rotating maintenance

F4-Maintenance/Grounds/Landscaping-rotating 2 cars

F4-Janitorial/Trash Pick Up/ Recycling-rotating 2 cars

F10-Housekeepers/Laundry-2 cars

P1-Plumbers and Fountain Maintenance-Full time seasonal/engineer

F1, F4,S10-Kitchen-Head chef lives on site- with 4 full time staff who drives in

F2, S6-Transportation

FR4-Security/Emergency Team-coming & going- 1 on gate, 1 on grounds

FSR3-Medical/Health-summer nurse on site

F1-AV staff

F1-Mechanics-incidental, controlled on site

Note: **All Staff must have Class 2 driver's license and be CPR certified.

Drivers will be from off site or rollovers

Total Employees: 45 Full Time, 3 Part Time, 55 Seasonal

Camp Catinas Project
Camper and Employee Daily Trip Estimates
ATE # 11049

10-May-12

Staff/Activity	Size	Cars	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	7-day Average
1 Admin. Dir/staff	3	1	6	6	4	4	4	4	4	5
2 Musicians/Speakers	3	1	2	2	2	2	2	2	2	2
3 Equestrian staff	4	0	4	4	2	2	2	2	2	3
4 Instructors	15	3	6	6	2	2	2	2	2	3
5 Counselors	30	6	6	6	2	2	2	2	2	3
6 Business Office	5	4	8	8	8	8	8	8	8	8
7 Snack Shop	2	1	2	2	2	2	2	2	2	2
8 Dir. Ranch Ops.	1	1	2	2	2	2	2	2	2	2
9 Maintenance/Janitors	12	3	6	6	6	6	6	6	6	6
10 Kitchen	8	4	8	8	8	8	8	8	8	8
11 Transportation	8	3	6	6	6	6	6	6	6	6
12 Security	2	1	2	2	2	2	2	2	2	2
13 Medical	3	3	2	2	2	2	2	2	2	2
Subtotal	96	31	60	60	48	48	48	48	48	51
14 Camper - Van	(a)	8	40	40	6	6	6	6	6	16
15 Camp Deliveries	(b)		4	4	2	2	2	2	2	3
Total			104	104	56	56	56	56	56	70

Notes: (a) Camp Vans used to transport campers and staff.
(b) Delivery vehicles for camp materials