

STATE OF CALIFORNIA

STANDARD AGREEMENT

- APPROVED BY THE ATTORNEY GENERAL

CONTRACT # CTA-02007	AM. NO. 1
TAXPAYER'S FEDERAL EMPLOYER IDENTIFICATION # 94-6000511	

STD. 2 (REV. 5-91)

THIS AGREEMENT, made and entered into this 8th day of December, 2006, in the State of California, by and between State of California, through its duly elected or appointed, qualified and acting,

TITLE OF OFFICER ACTING FOR STATE: Executive Officer AGENCY: California Tahoe Conservancy, hereafter called the State, and

CONTRACTOR'S NAME: County of El Dorado, hereafter called the Contractor.

WITNESSETH: That the Contractor for and in consideration of the covenants, conditions, agreements, and stipulations of the State hereinafter expressed, does hereby agree to furnish to the State services and materials as follows: *(Set forth service to be rendered by Contractor, amount to be paid Contractor, time for performance or completion, and attach plans and specifications, if any.)*

The Agreement numbered CTA-02007 dated May 23, 2003 (hereafter "the Agreement") between the California Tahoe Conservancy (hereafter "the Conservancy") and the County of El Dorado (hereafter "Grantee") is hereby amended as follows:

1. The amount of the grant from the Conservancy to Grantee, for the construction of the Apalachee Erosion Control as provided under Paragraph 1 - Scope of Agreement and Paragraph 12 - Costs and Disbursements, is increased by One Million Five Hundred Thousand Dollars (\$1,500,000) to a total of Three Million Two Hundred Sixty-Six Thousand Three Hundred Dollars (\$3,266,300).

CONTINUED ON ___ SHEETS, EACH BEARING NAME OF CONTRACTOR AND CONTRACT NUMBER.
IN WITNESS WHEREOF, the parties have executed this agreement hereto, upon the date first above written.

STATE OF CALIFORNIA	CONTRACTOR
AGENCY	CONTRACTOR (If other than an individual, state whether a corporation, partnership, etc.)
<u>California Tahoe Conservancy</u>	<u>County of El Dorado</u>
BY:	BY:
<u>Patrick Wright</u>	<u>James R. Sweeney, Chairman</u>
<u>Executive Officer</u>	<u>2850 Fairlane Ct., Placerville, CA 95667</u>

Amount ENCUMBERED BY THIS DOCUMENT \$1,500,000	PROGRAM/CATEGORY (CODE AND TITLE)		FUND TITLE	
	(OPTIONAL USE)			
PRIOR AMOUNT ENCUMBERED FOR THIS CONTRACT \$ 1,786,300	ITEM	CHAPTER	STATUTE	FISCAL YEAR
	OBJECT OF EXPENDITURE (CODE AND TITLE)			
TOTAL AMOUNT ENCUMBERED TO DATE \$ 3,266,300	T.B.A. NO.		B.R. NO.	
SIGNATURE OF ACCOUNTING OFFICER X			DATE	

Department of General Services
Use Only

CONTRACTOR STATE AGENCY DEPT. OF GEN. SER. CONTROLLER

2. Paragraph 6, entitled "Signing" is amended to include the following:

For each major segment or element of the Project, the Grantee shall in accordance with the Final Plans, erect and maintain interpretive signs if proposed, as well as signs which identify the Project and the respective roles of the Conservancy and the Grantee and acknowledge the funding assistance from the Conservancy. Projects funded by "The Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002 (Proposition 50)" must comply with the sign guidelines set forth in Exhibit G-1.

Grantee shall prepare and submit an on-line catalog entry form to the California Environmental Information Catalog for information products and reports (e.g., environmental and biological field surveys, natural hazard assessments, geographic information, etc.) relating to California's natural environment that have been prepared with funds made available from Proposition 40 or 50. Of particular interest are those products that characterize site-specific conditions with regard to vegetation, wildlife populations, species occurrences and other measures of biological diversity, environmental and ecological condition. The on-line catalog entry form is available at <http://gis.ca.gov/catalog/intro.epl?page=using.html>. The Conservancy shall determine whether, for public policy reasons, a catalog description of any information product or report should be withheld from disclosure in the California Environmental Information catalog.

4. Paragraph 17 entitled "Audits/Accounting/Records" is amended to read as follows:

The Grantee shall establish an official file for the Project(s). The file shall contain adequate documentation of all actions that have been taken with respect to the project.

The Grantee shall establish separate accounting records for receipt, deposit, and disbursement of all project funds, including interest. All funds received by the Grantee shall be deposited into separate fund accounts that identify the funds and clearly show the manner of their disposition. The Grantee agrees that adequate supporting documentation shall be maintained in such detail so as to provide an audit trail which will permit tracing transactions from support documentation to the accounting records to the financial reports and billings. Interest on advanced funds shall be used for the purpose of the Project(s), as approved by the Conservancy. The Grantee shall promptly report to the Conservancy the application for or the receipt of any new funds from other funding sources.

The grantee shall maintain books, records documents, and other evidence sufficient to reflect properly the amount, receipt, and disposition of all project funds, including State funds, interest earned, and any matching funds by the Grantee and the total cost of the Project(s). The maintenance requirements extend to books of original entry, source documents supporting accounting transactions, the general ledger, subsidiary ledgers, personnel and payroll records, canceled checks, and related documents and records. Source documents include copies of all awards, applications, and required financial and narrative reports. Personnel and payroll records shall include the time and attendance reports for all individuals reimbursed under the award, whether they are employed full-time or part-time. Time and effort reports are also required for

consultants and contractors. Adequate supporting documentation shall be maintained in such detail so as to provide an audit trail which will permit tracing transactions from the invoices to the financial statement, to the accounting records, and to the supporting documentation.

All Grantee records relevant to the project must be preserved a minimum of three years after the final payment of the contract or the final audit, whichever is later, and shall be subject at all reasonable times to inspection, examination, monitoring, copying, excerpting, transcribing, and audit by the State of California.

The State of California and the California Tahoe Conservancy reserve the right to call for a program audit or a financial audit at any time between the execution of this Agreement and the Completion or termination of the Project(s). At any time, the Conservancy may disallow all or part of the cost of the activity or action determined to be not in compliance with the terms and conditions of this Agreement.

5. The final date for submittal of invoices as set forth in Paragraph 12 – Costs and Disbursements, is amended as follows:

<u>Funding Increment:</u>	<u>Final Invoice Date for This Funding Increment</u>
\$ 1,766,300	June 30, 2007
\$ 1,500,000	June 30, 2011

6. Paragraph 24, entitled Project Coordinators is amended to read as follows:

“Rick Robinson (or such other person(s) as the Executive Officer may designate from time to time) is designated the Conservancy’s Project Coordinator for this grant. The County Officer or employee with responsibility for administering this agreement is Robert S. Slater, Deputy Director, Engineering, Department of Transportation, or successor.”

7. Exhibit A, the Conservancy’s staff recommendation containing the Conservancy’s resolution of May 23, 2003, is amended through the addition of Exhibit A-1, the Conservancy’s staff recommendation containing the Conservancy’s resolution of December 8, 2006.

8. Exhibit B, the estimated Project Schedule is amended through the addition of Exhibit B-1, the Revised Estimated Project Schedule.

9. Exhibit G, Sign Guidelines is amended to include the sign requirements set forth in Exhibit G-1.

10. All other terms and conditions of the original Agreement numbered CTA-02007 shall remain unchanged and in full force and effect.

Exhibit A-1

California Tahoe Conservancy
Agenda Item 9
December 8, 2006

**EROSION CONTROL GRANTS AUTHORIZATION
FY 2006-2007**

Summary: Staff is seeking authorization to award up to \$3,000,000 in grants to Placer County and El Dorado County for two erosion control projects described in the accompanying staff report and attachments. These grants are a portion of the jurisdictional allocation of the 2006-07 round of the Soil Erosion Control Grants Program. Staff is also recommending that the board make the necessary findings to comply with the California Environmental Quality Act (CEQA), as described in Attachments 3 and 6.

Location: The projects are located in the Tahoe Estates neighborhood of Placer County and in the Apalachee neighborhood of El Dorado County as shown in Attachment 2.

Fiscal Summary:

Total Requested Amount:\$3,000,000

Source of Funds: Proposition 50

Recommended Action: Adopt Resolution No. 06-12-05 (Attachment 1) authorizing the award of up to \$3,000,000 in grants for the erosion control projects described below, and make the findings that the projects, for which Negative Declarations were prepared, will have no significant negative effects on the environment.

Background: In July 2006, the Conservancy Board authorized the release of the Soil Erosion Control Grants Program Announcement and Guidelines for funding up to \$7,500,000 in grants for the 2006-2007 round of the program. This announcement and guidelines request applications from local jurisdictions for planning, acquisition and site improvement grants for erosion control projects

that are included in the Environmental Improvement Program (EIP). Fourteen pre-applications have been received. Normally erosion control grants are awarded annually at the spring board meeting. During the review of these pre-applications, Conservancy staff recognized that awarding a portion of the jurisdictional allocation at the December Board meeting would facilitate the construction schedules of two projects. Placer County's Tahoe Estates project is in final design with construction scheduled to begin in June 2007. No bids were received when El Dorado County's Apalachee 3A project was first advertised in July 2006. The project is being re-advertised for bids now, and construction is scheduled to begin on May 1, 2007. Awarding the grant funding for these two projects in December will help to insure that these schedules are met. The two projects and their recommended funding levels are:

Placer County

- Tahoe Estates - \$225,000 acquisition grant, \$1,275,000 site improvement grant

El Dorado County

- Apalachee 3 - \$1,500,000 site improvement grant

Attachment 3 contains a brief description and map of each project. Attachment 4 is a list of the proposed easement and fee title acquisitions of privately-owned parcels for the Tahoe Estates Project. Attachment 5 lists Conservancy parcels proposed for issuance of license agreements related to the construction of erosion control improvements for the Apalachee 3 project. Attachment 6 contains the CEQA documents that were prepared by the Conservancy staff for these projects.

The grant applications and the CEQA documents prepared by the applicants are available for public review at the Conservancy's office, 1061 Third Street, South Lake Tahoe, CA 96150 and have been sent to the board under separate cover. Copies will also be available for review at the December 8, 2006 board meeting. The Soil Erosion Control Grants Program Announcement and Guidelines are also available for review at the Conservancy office.

Grant Allocations: In July 2006, the Board authorized \$7,500,000 for the 2006-2007 round of the Soil Erosion Control Grants program.

Grant funds are distributed using two methods. The three general-purpose local governments (i.e., Placer County, El Dorado County, and the City of South Lake Tahoe) are each allocated \$1,500,000 as jurisdictional funding. Given that these

Tahoe) are each allocated \$1,500,000 as jurisdictional funding. Given that these jurisdictions have a primary responsibility for implementing the EIP, this allocation provides them with regular funding for completing high priority soil erosion control projects. The remaining \$3,000,000 is distributed on a discretionary basis and is available to not only the above three local jurisdictions, but also to the three public utility districts (PUDs) on the California side of the basin--South Tahoe PUD, North Tahoe PUD, and Tahoe City PUD.

In order to support the Counties' efforts to construct the projects this summer, the two projects described further in Attachment 3 are being recommended to receive the full jurisdictional funding for Placer County and El Dorado County, respectively, at this time. The board can expect the remainder of the 2006-07 round of erosion control funding recommendations at the March 2007 meeting.

In response to comments from the board and the local agencies, staff is also investigating the possibility of modifying its annual soil erosion control grant program to better facilitate the seasonal construction period in the Tahoe Basin. Staff may bring the 2007-2008 Program Announcement and Grants Program Guidelines to the Board at the May 2007 meeting should this modification be further pursued.

Evaluation Process: Site walks of potential project applications occurred in early September, and pre-applications were received on September 22, 2006. Pre-applications were reviewed and evaluated in accordance with the program guidelines, and comments and potential funding levels were communicated to the respective agency.

Final applications for the two projects proposed for funding at this time were received by November 8, 2006. Those applications were evaluated in a multi-step process. The first step was to determine eligibility for a Conservancy grant. To be eligible, a project must either be: (1) included in the EIP, or (2) a continuation or completion of a project previously funded by the Conservancy. Erosion control projects included in the EIP are designated by a project number, which corresponds to a geographic area in the Lake Tahoe Basin. Each designated area has been found to have water quality problems that are contributing sediment and nutrient loads to Lake Tahoe, and that need to be addressed to reverse the decline in lake clarity.

Next, applications were checked for completeness. If any items were missing, the grantee was notified and asked to submit the required information. Third,

the applications were evaluated based on the following seven criteria in the Soil Erosion Control Grants Program Announcement and Guidelines, and these two projects were found to be substantially consistent with these criteria:

- Significant and documentable benefit to Lake Tahoe water quality
- Adequacy of design
- Comprehensiveness
- Cost-effectiveness
- Implementability
- Model project
- Cooperation and support

Project applications were also distributed for review to staff at the United States Forest Service (USFS), Lahontan Regional Water Quality Control Board (Lahontan) and Tahoe Regional Planning Agency (TRPA). Staffs from these agencies were also invited to participate in the site walks.

Projects were then ranked according to how well they met the evaluation criteria. Typically, the highest ranking is given to projects for which site improvements are scheduled for construction in the near future (e.g., this year or next year). The second highest ranking is typically given to projects requesting acquisition funds, as parcel or easement acquisitions are usually necessary before project construction can begin.

The third level of ranking normally goes to projects for which only planning funds are requested.

A project that received Conservancy funding in a prior year, but needs additional funding to complete site improvements, acquisitions, or planning, normally is ranked higher than a project of the same type for which funding is being requested for the first time.

Since both of the projects proposed for funding at this time meet all of the evaluation criteria and are scheduled for construction in the summer of 2007, they are ranked at the top of the list.

Expected Benefits of Projects: Each of the projects being recommended for funding at this time has been designated by TRPA, through its inclusion in the EIP, as a high priority water quality project. All EIP water quality projects are

focused on reducing the discharge of sediment and nutrients to Lake Tahoe, to prevent or reverse the decline in Lake Tahoe's clarity.

Specifically, the projects recommended to receive a site improvement grant have been designed, following the Conservancy guidelines, to stabilize eroding channels and slopes, infiltrate storm runoff, and trap sediment throughout the project areas. By addressing these problems, the amounts of sediment and nutrients reaching Lake Tahoe will be significantly reduced.

The acquisition funding being recommended for board approval will enable critical parcels and easements to be purchased, so that this project can go forward to the bidding stage, and water quality improvements can then be constructed next summer.

Of the \$3.0 million being recommended for funding at this time, \$2.775 million is for the construction of site improvements and \$0.225 million is for property acquisition. The funding for site improvements will result in the construction of 2.9 miles of curb and gutter or asphalt dike, 2.2 miles of rock-lined and vegetated channels, 2.3 acres of revegetation, 65 sediment traps and water quality treatment basins, and various other treatment measures. The \$225,000 in funding for acquisitions for the Tahoe Estates project will assist with the completion of project plans this upcoming spring and construction of improvements during the 2007 field season.

Fiscal Issues: As stated above, in July 2006 the board authorized grant guidelines to award up to a total of \$7,500,000. At this time, staff is recommending that the board award El Dorado County its full jurisdictional allocation of \$1,500,000 for the Apalachee 3 site improvement grant and award Placer County its full jurisdictional allocation for a \$225,000 acquisition grant and a \$1,275,000 site improvement grant for the Tahoe Estates Erosion Control Project. The remainder of the 2006-07 erosion control grants will be presented at the March 2007 meeting.

License Agreements: As part of the staff recommendation for funding erosion control projects, staff normally notifies the board about licenses that may be needed on Conservancy parcels to construct and maintain water quality-related improvements.

This notification is provided in accordance with board authorization in June 1987. After notice to the board, staff can execute license agreements with the

various local jurisdictions for the specified parcels. Attachment 5 contains a list of Conservancy - owned parcels in the project areas, together with the proposed improvements for each of those parcels.

If the final project design calls for the use of a parcel on this list and staff finds this use to be appropriate, through approval of the project plans, then staff will execute a license agreement for that parcel.

Implementation of the Grants: If the staff recommendation is approved, implementation of the projects will be governed by standard grant agreements entered into by the Conservancy and the individual grantees. As in recent agreements, the new grants will provide for advances of up to 90% for design, administration, and construction, subject to meeting certain requirements.

Additionally, it should be noted that the lists of parcels and the project budgets and schedules in the project descriptions are preliminary. Final project design may alter the need for the acquisition of particular parcels or the allocation of funds between major budget items. However, such changes will not exceed the total amount awarded in the grant. Any remaining funds in site improvement projects will be used, if necessary, to extend improvements to adjoining areas, or upon board notification, applied to another project included in the same grant.

LIST OF ATTACHMENTS

Attachment 1 - Board Resolution

Attachment 2 - Regional Map

Attachment 3 - Project Descriptions

Attachment 4 - Private parcels to be acquired by acquisition grants

Attachment 5 - Conservancy parcels for possible license agreements

Attachment 6 - CEQA Notices of Determination

Conservancy Staff:

Penny Stewart (530) 543-6013

Scott Cecchi (530) 543-6015

Rick Robinson (530) 543-6064

Attachment 1

California Tahoe Conservancy
Resolution
06-12-05
Adopted: December 8, 2006

Soil Erosion Control Grants

"The California Tahoe Conservancy hereby authorizes staff to enter into standard agreements and take all other necessary steps, subject to the provisions and conditions discussed in the accompanying staff report and attachments, in order to fund and implement the following grant projects:

1. To the County of Placer

A total of \$1,500,000 for site improvements and acquisition of various interests in real property for the Tahoe Estates Erosion Control Project.

2. To the County of El Dorado

A total of \$1,500,000 for site improvements for the Apalachee 3 Erosion Control Project."

"The award of the site improvement and acquisition grants and disbursement of funds is conditioned upon a commitment, by resolution and through execution of standard agreements, by the individual grantees to undertake the projects in a manner consistent with the purposes and scopes of the grants, to monitor the effectiveness of the projects, and to manage and maintain the projects for the 20-year term of the grants."

"The California Tahoe Conservancy has reviewed the previous Mitigated Negative Declaration prepared for the Tahoe Estates Erosion Control Project, and finds that improvements proposed have been adequately analyzed in the Mitigated Negative Declaration filed with the State Clearinghouse on February 23, 2006. The Conservancy finds that no substantial changes are proposed in the project, and no substantial changes have occurred with respect to the circumstances under which the project is undertaken that would involve any new significant

environmental effects or significantly increase the severity of any previously identified impacts. Furthermore, there are no changes regarding the project that would require new or different mitigation measures. Accordingly, the Conservancy finds that the earlier Mitigated Negative Declaration is adequate for compliance with CEQA for the grant of this funding and directs staff to file a Notice of Determination for this project with the State Clearinghouse."

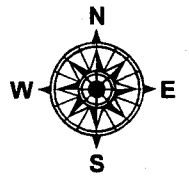
"The California Tahoe Conservancy has reviewed the previous Mitigated Negative Declaration and subsequent Addendums prepared for the Apalachee 3 Erosion Control Project, and finds that improvements proposed have been adequately analyzed in the Mitigated Negative Declaration filed with the State Clearinghouse on February 11, 2000 and the Addendums certified by El Dorado County Board of Supervisors on November 15, 2005. The Conservancy finds that no substantial changes are proposed in the project, and no substantial changes have occurred with respect to the circumstances under which the project is undertaken that would involve any new significant environmental effects or significantly increase the severity of any previously identified impacts. Furthermore, there are no changes regarding the project that would require new or different mitigation measures. Accordingly, the Conservancy finds that the earlier Mitigated Negative Declaration and the Addendums are adequate for compliance with CEQA for the grant of this funding and directs staff to file a Notice of Determination for this project with the State Clearinghouse."

I hereby certify that the foregoing is a true and correct copy of the resolution duly and regularly adopted by the California Tahoe Conservancy at a meeting thereof held on the 8th day of December 2006.

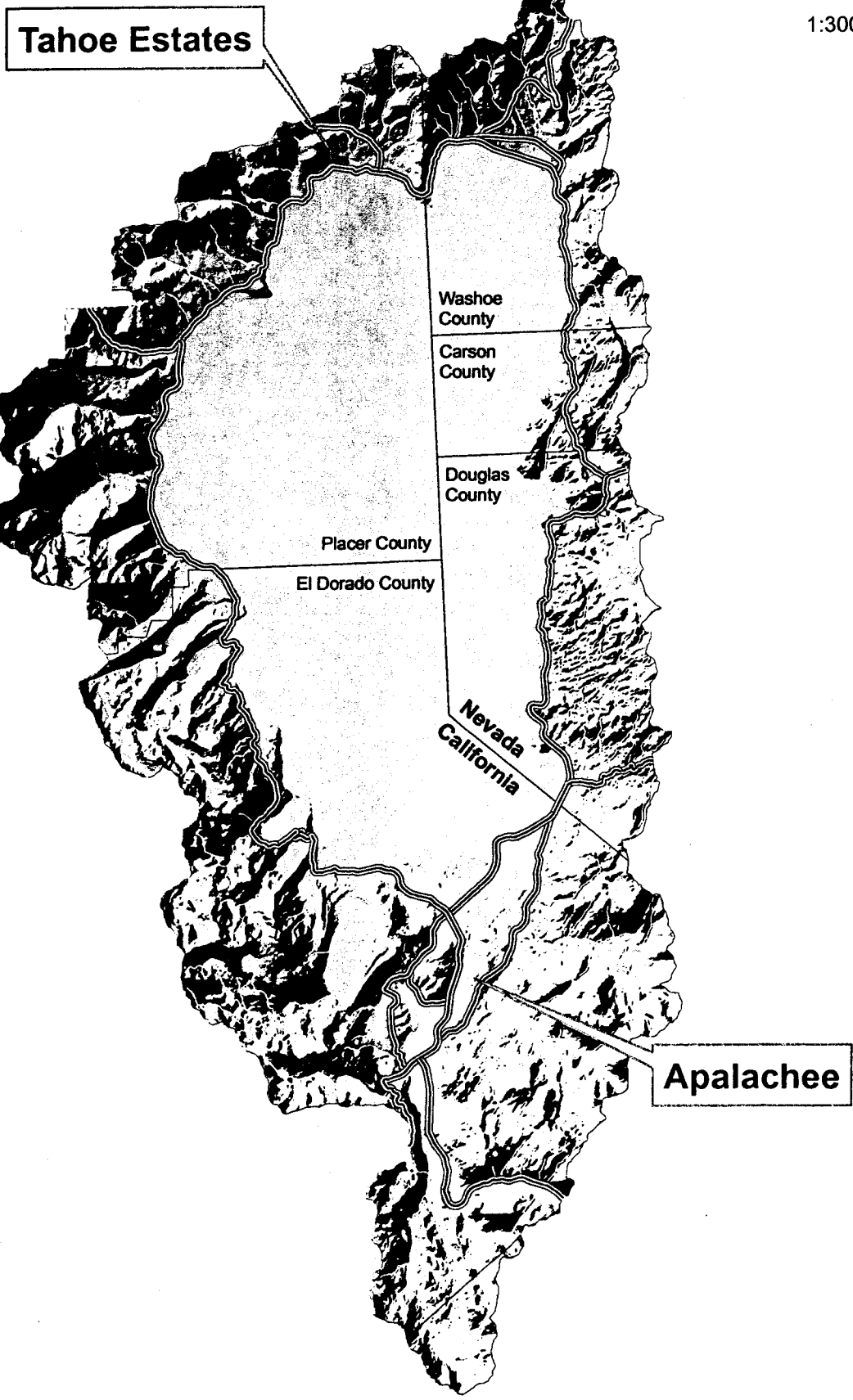
In WITNESS THEREOF, I have hereunto set my hand this 8th day of December 2006.

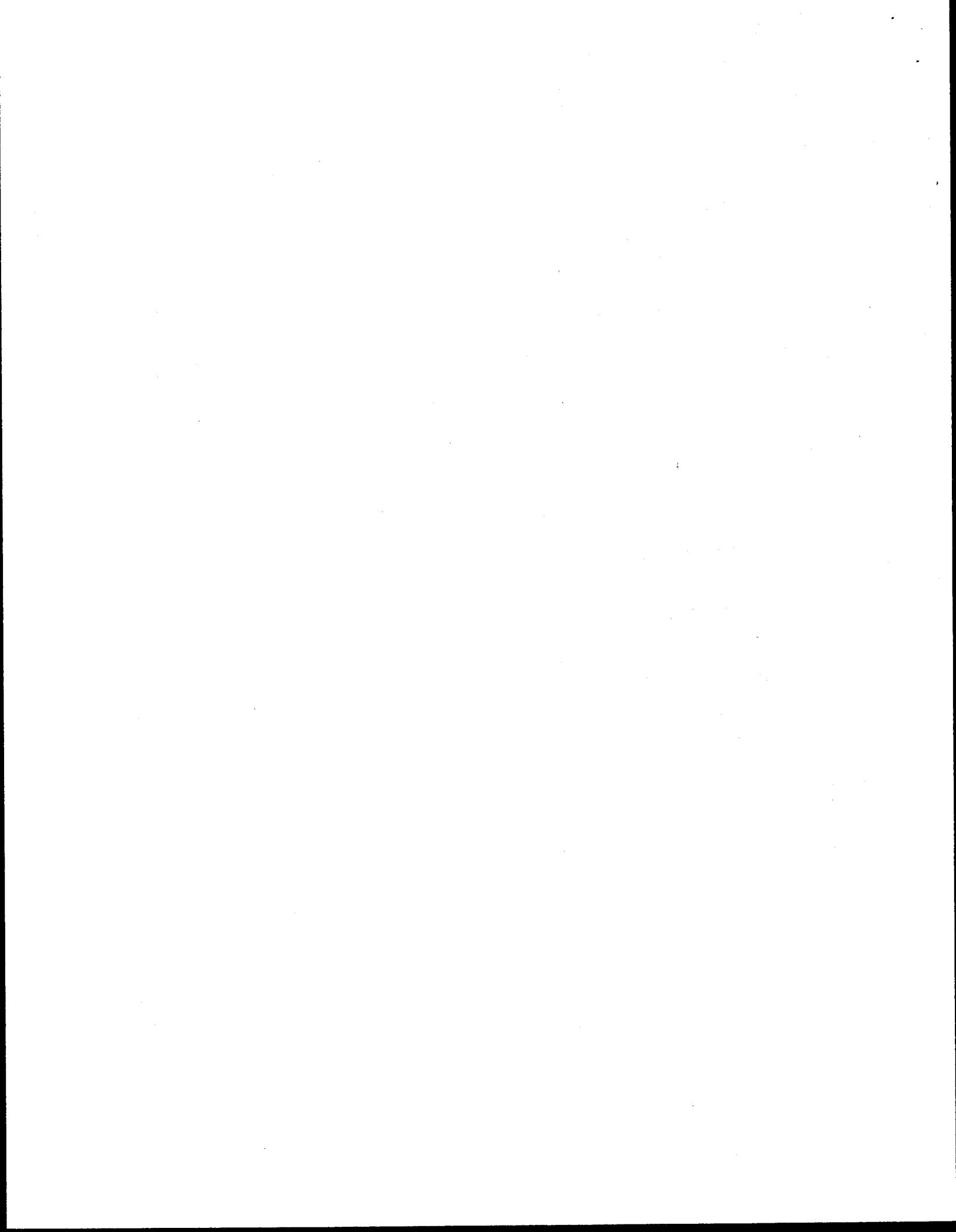
Patrick Wright
Executive Officer

**Attachment 2 - Regional Map
Erosion Control Project Locations
2006 - 2007**



1:300,000





Attachment 3

Tahoe Estates Erosion Control Project

Grant Type: Site Improvement Augmentation and Acquisition

Applicant: Placer County

Recommended Funding:

- Site Improvement: \$1,275,000
- Acquisition: \$ 225,000
- **Total** **\$1,500,000**

Schedule: Construction is estimated to begin in June of 2007

Location: The Tahoe Estates Erosion Control Project is located on the north shore of Lake Tahoe in the Tahoe Vista area. The project area is generally bounded by Kings Way on the north, Lake Tahoe to the south, National Avenue to the east, and Kings Vista Court and Fawn Lane to the west. The Tahoe Estates project is included in the 2001 Environmental Improvement Program (EIP) as Project #212. The attached maps illustrate the project boundaries.

Background: The project area is located immediately adjacent to Lake Tahoe. Excessive runoff is generated by impervious residential and commercial development, including paved and unpaved roadways and rooftops. A variety of unstable sediment sources exist in the project area, including eroding road shoulders, cut slopes and two unpaved County-maintained roadways (Wildrose Drive and Laurel Avenue). Storm water runoff in the project area typically flows down unstable earthen road shoulders and into drainage systems that quickly convey sediment and nutrients to Lake Tahoe, contributing to a reduction in lake clarity.

In May 2003, the Conservancy granted \$134,200 to initiate planning activities. The Conservancy awarded a planning grant augmentation in the amount of \$200,000 in 2004, to fund additional planning requirements instituted by the Storm Water Quality Improvement Committee.

Through Rounds 5 and 6 of the Southern Nevada Public Lands Management Act (SNPLMA) grant program, the U.S. Forest Service contributed \$80,000 in 2005 and \$218,000 in 2006, to fund the completion of the planning process.

In 2006, the Conservancy awarded an initial \$100,000 site improvement grant to finalize construction documents in preparation for submission of grant applications for acquisitions and construction. Currently the County is applying to the Conservancy Erosion Control Program for \$225,000 in acquisition and \$1,275,000 in site improvement funds (augmentation). The County is also applying for \$1,536,200 of Round 7 SNPLMA funding, which would complete the funding needs for implementation of this project. Construction will begin in the summer of 2007.

Proposed Improvements and Benefits: Planned improvements include erosion source controls within road rights-of-way (two dirt roads will be paved), sediment traps to remove coarse sediments, and the use of publicly owned lands for water quality treatment. The chosen alternative for this

project is very cost-effective because it maximizes the use of existing storm water quality infrastructure. For example, existing infiltration basins and associated infrastructure will be integrated with proposed improvements and upgraded where necessary to treat additional runoff.

Application: The grant application contains a detailed budget and schedule for this project, maps showing the project area and the proposed acquisitions, and other information. This application has been sent to the Board under separate cover and is available for public review at the Conservancy office in South Lake Tahoe, California.

California Environmental Quality Act (CEQA) Compliance: Placer County, acting as the Lead Agency, prepared a Mitigated Negative Declaration and Initial Study for this project to comply with the California Environmental Quality Act (CEQA). The MND was adopted by their board on February 21, 2006, and a Notice of Determination was filed with the State Clearinghouse on February 23, 2006. On May 19, 2006, the Conservancy approved a site improvement grant to Placer County for this project and filed a Notice of Determination with the State Clearinghouse. A copy of the Mitigated Negative Declaration and Initial Study have been provided to the Board under separate cover and are available for public review at the Conservancy office, 1061 Third St., South Lake Tahoe, CA 96150.

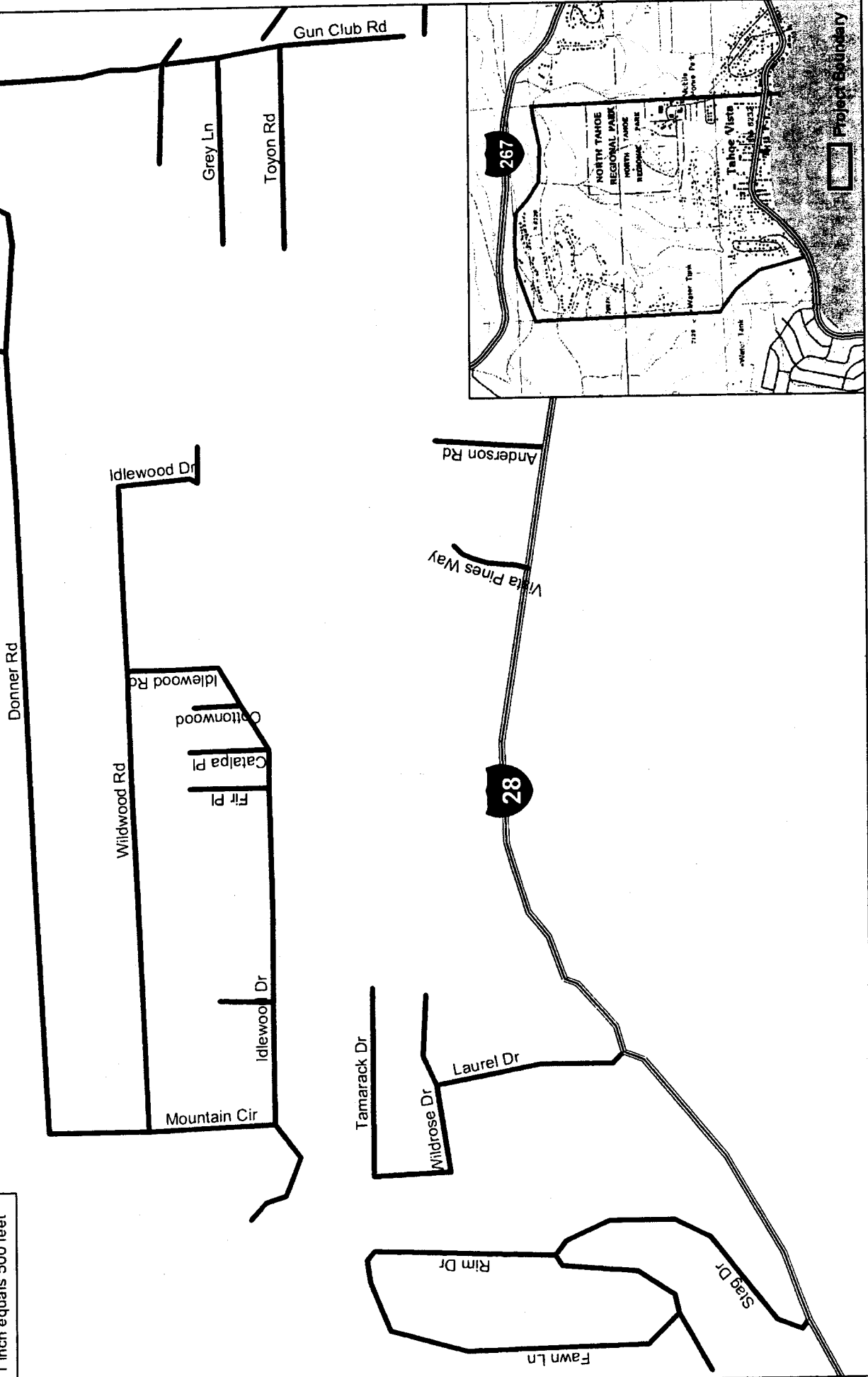
Staff has reviewed the earlier Mitigated Negative Declaration and believes that the improvements proposed have been adequately analyzed in this MND. Since the previous Negative Declaration prepared for this project was completed, there is no new information, or substantial changes to the proposed project, or changes to project implementation, which would involve any new significant effects not discussed or analyzed in the previous Negative Declaration. As a result, no new mitigation measures are needed to find that the project, as mitigated, would have no significant environmental impacts. The mitigation measures for the project can be found on pages 2-8 of the Negative Declaration.

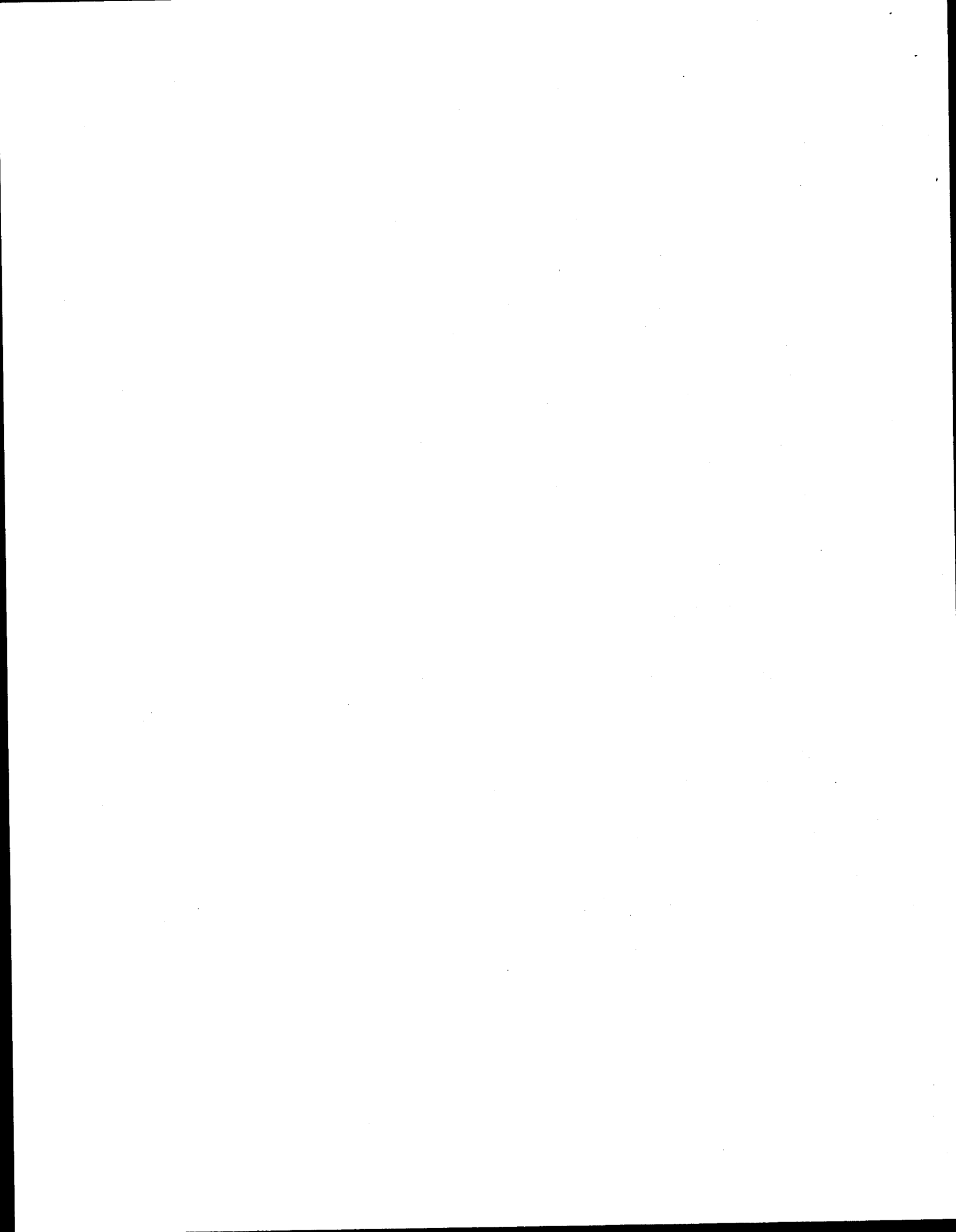
Staff recommends that the Conservancy make the findings as set forth in the attached resolution and authorize the grant funding. If the Board authorizes the funding, staff will file a Notice of Determination with the State Clearinghouse pursuant to Section 15096 of the State CEQA Guidelines. Attachment 6 contains the Conservancy's proposed Notice of Determination.

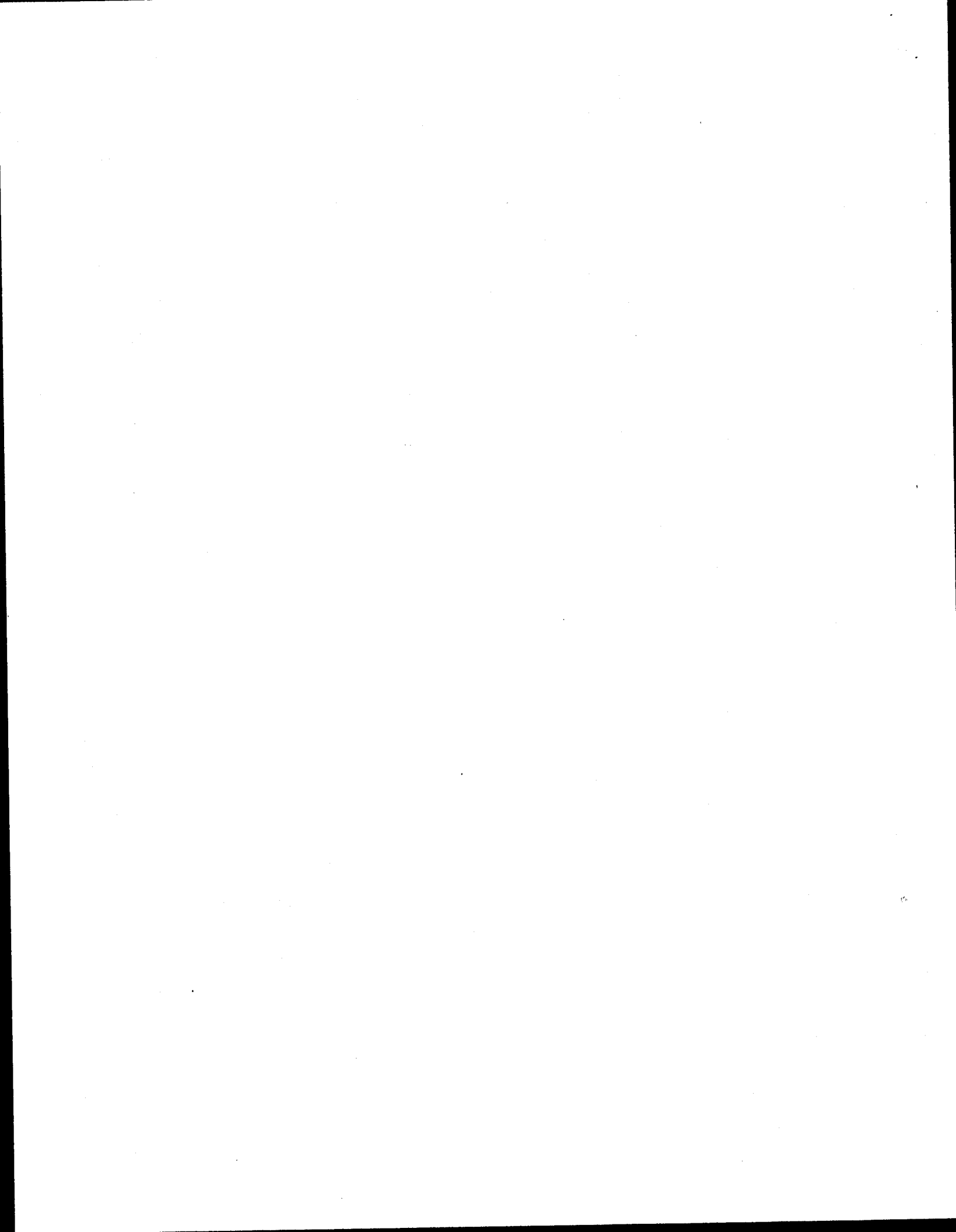
Tahoe Estates Vicinity and Location Map Map 1 of 2



Scale 1:6,000
1 inch equals 500 feet







Apalachee 3 Erosion Control Project

Grant Type: Site Improvement

Applicant: El Dorado County

Recommended Funding for Site Improvement: \$ 1,500,000

Schedule: Construction of the project will begin in May 2007 and be completed by October 2008.

Location: The Apalachee 3 Erosion Control Project is located in the south shore area of El Dorado County in the Tahoe Paradise Units 4 and 5 subdivisions. The project area is generally bounded by a tributary to Trout Creek to the north, Pioneer Trail to the south and east, and Apalachee Drive to the west as shown on map 1 of the following maps.

Background: The Apalachee 3 project is the final two phase project of the Apalachee Erosion Control Project. Planning for the entire project, which is EIP #188, was initiated in 2000. Final design has been completed for Phase 3A, which was originally advertised for bid in July 2006. Unfortunately, no bids were received at that time. El Dorado County is advertising this project for bid again with bids due in mid-December 2006. Construction should begin on May 1, 2007 or shortly thereafter, depending upon the weather. Phase 3B of the project is in the final design stage and is expected to go to bid in 2007. The Conservancy has previously provided \$1,806,300 in funding for the planning, design, acquisitions, and construction of this project. \$200,000 has been obtained from the Bureau of Reclamation for the construction of the project, and USFS SNPLMA funding has contributed \$1,289,129 to date for the project's planning and construction with additional funds being requested. The funding requested in this grant application will assist with project construction of phase 3A and a portion of phase 3B as costs have increased significantly over the past three years.

Due to the proximity of the project area to the Upper Truckee River and Trout Creek, there is currently a significant amount of storm water runoff and snowmelt that eventually discharge to the streams. The runoff and snowmelt contain high sediment and nutrient loads as a result of eroding slopes and eroding roadside ditches. In addition, road sand and cinders are heavily applied on various roads in the project area. The sand and cinders then find their way into the watercourses and contribute to the high levels of nutrients and sediment discharging into the Upper Truckee River and Trout Creek.

Proposed Improvements and Benefits: The preferred alternative for both phases involves stabilizing existing sediment sources, capturing road sand and cinders, and treating and infiltrating storm water runoff and snowmelt (Map 2). Stabilizing slopes will be accomplished through the use of retaining walls and revegetation. Various methods of flow spreading will be used downstream of some culvert outlets to slow flow, reduce erosion, and increase infiltration and treatment using publicly-owned natural meadow areas. The County also proposes to install a new infiltration gallery device in four locations that allows for the capture of fine sediment as well as provide for infiltration. By using vegetated and rock-lined swales for most of the 0.15 miles of proposed drainage

conveyances, increased infiltration and treatment can be accomplished. A total of 2.2 acres will be treated with revegetation to stabilize compacted road shoulders and slopes. A total of 2.6 miles of curb and gutter will be used in areas where there is a combination of either steep slopes, evidence of snowplow disruption, or eroding ditches. 98 sediment traps or drop inlets will be used at culvert inlets to trap coarse sediment. Existing asphalt will be removed at the end of several cul-de-sacs and replaced with porous pavement to provide an area for snow storage and infiltration of snowmelt while capturing sediment at the same time.

Since this project was originally funded prior to July 2001, it must continue to meet the minimum 6.4 pounds per dollar of sediment reduction that was required at that time. Conservancy staff has reviewed the documentation El Dorado County has provided on their projected sediment reduction and agrees with the estimated sediment reduction efficiency of 7.13 pounds per dollar.

The County has obtained all privately-owned easements that are required to build the project. The County plans to use publicly-owned parcels for a number of the erosion control and sediment control improvements, including flow spreaders, sediment traps, infiltration basins, and vegetated and rock-lined swales.

If the board approves this recommendation, staff proposes to grant licenses to construct and maintain improvements on these parcels. Attachment 5 lists the Conservancy parcels the County proposes to use.

Given the size of the project area, the County is proposing to construct the project in two phases, 3A and 3B (Map 2). Each phase can be completed during one construction season and has been delineated in order to address sub-watersheds within the project area.

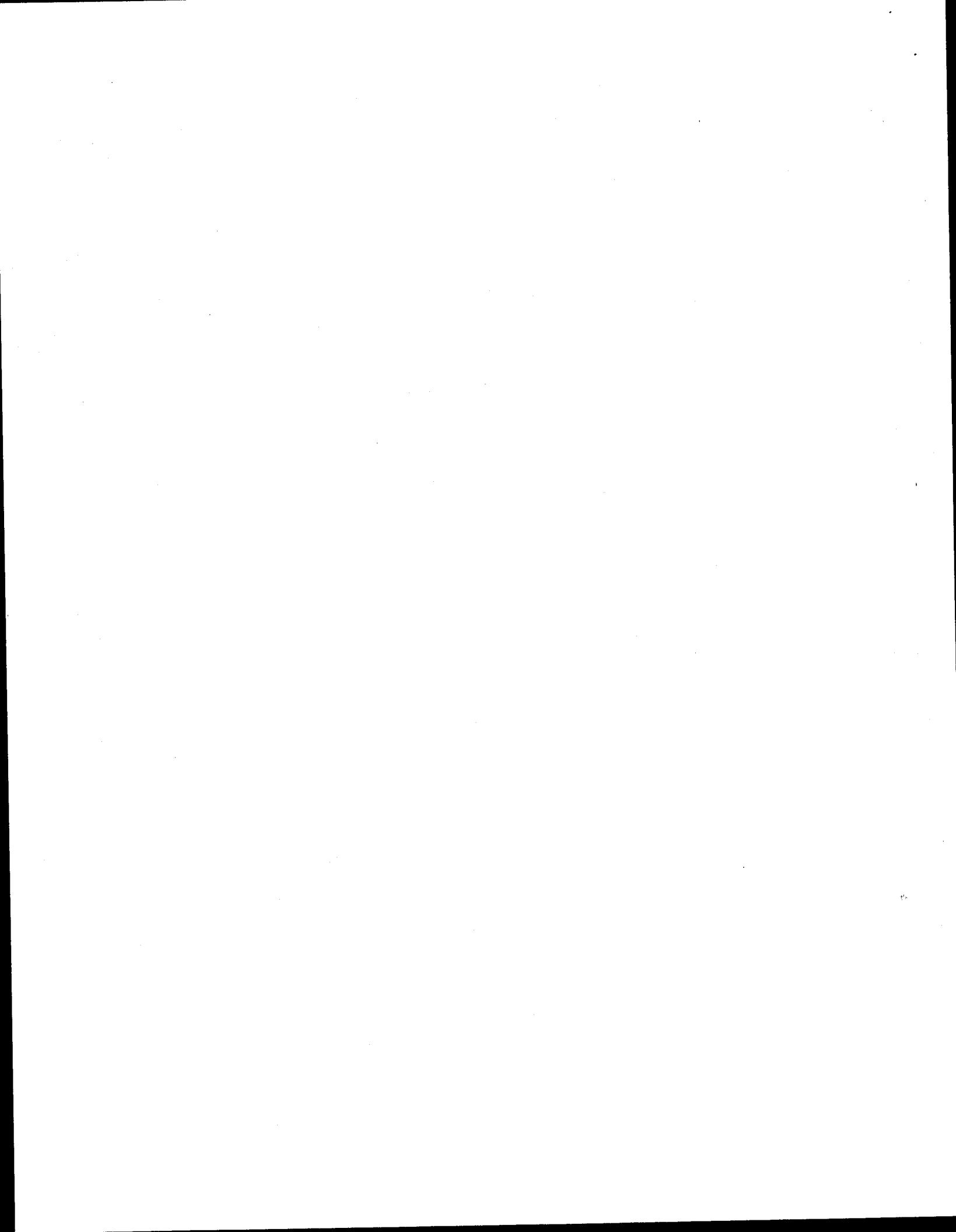
Application: The grant application, which is available for review at the Conservancy's office in South Lake Tahoe, CA and was sent to the board under separate cover, describes the project in more detail, and includes a project schedule, a detailed budget breakdown, and site improvement plans.

California Environmental Quality Act (CEQA) Compliance: El Dorado County, acting as the Lead Agency, prepared a Mitigated Negative Declaration and Initial Study for this project, which was certified by their board on February 8, 2000 and a Notice of Determination was filed with the State Clearinghouse on February 11, 2000. The Conservancy filed a Notice of Determination with the State Clearinghouse on May 25, 2000 in association with earlier related approvals of the project. In October 2005 the County prepared two Addendums to the Mitigated Negative Declaration to comply with the California Environmental Quality Act (CEQA). One addendum addressed modifications to the Phase 3A improvement designs, and the second addressed modifications to the Phase 3B improvement designs. The Addendums determined that there were not substantial changes in the environmental effects of the project, that no new information of substantial importance has arisen, and that there has been no substantial change to the circumstances under which the project is being undertaken. The

Addendums also determined that the mitigation measures in the adopted IES/MND remain the same. These two Addendums were certified by the El Dorado Board of Supervisors on November 15, 2005. A copy of the Mitigated Negative Declaration and Initial Study as well as the Addendums have been provided to the Board under separate cover and are available for public review at the Conservancy office, 1061 Third St., South Lake Tahoe, CA 96150.

Staff has reviewed the earlier Mitigated Negative Declaration and the Addendums and believes that the improvements proposed have been adequately analyzed in these documents. Since the previous Negative Declaration and Addendums prepared for this project were completed, there is no new information, or substantial changes to the proposed project, or changes to project implementation, which would involve any new significant effects not discussed or analyzed in the previous Negative Declaration or Addendums. As a result, no new mitigation measures are needed to find that the project, as mitigated, would have no significant environmental impacts. A summary of the mitigation measures can be found on pages 41-44 of the MND.

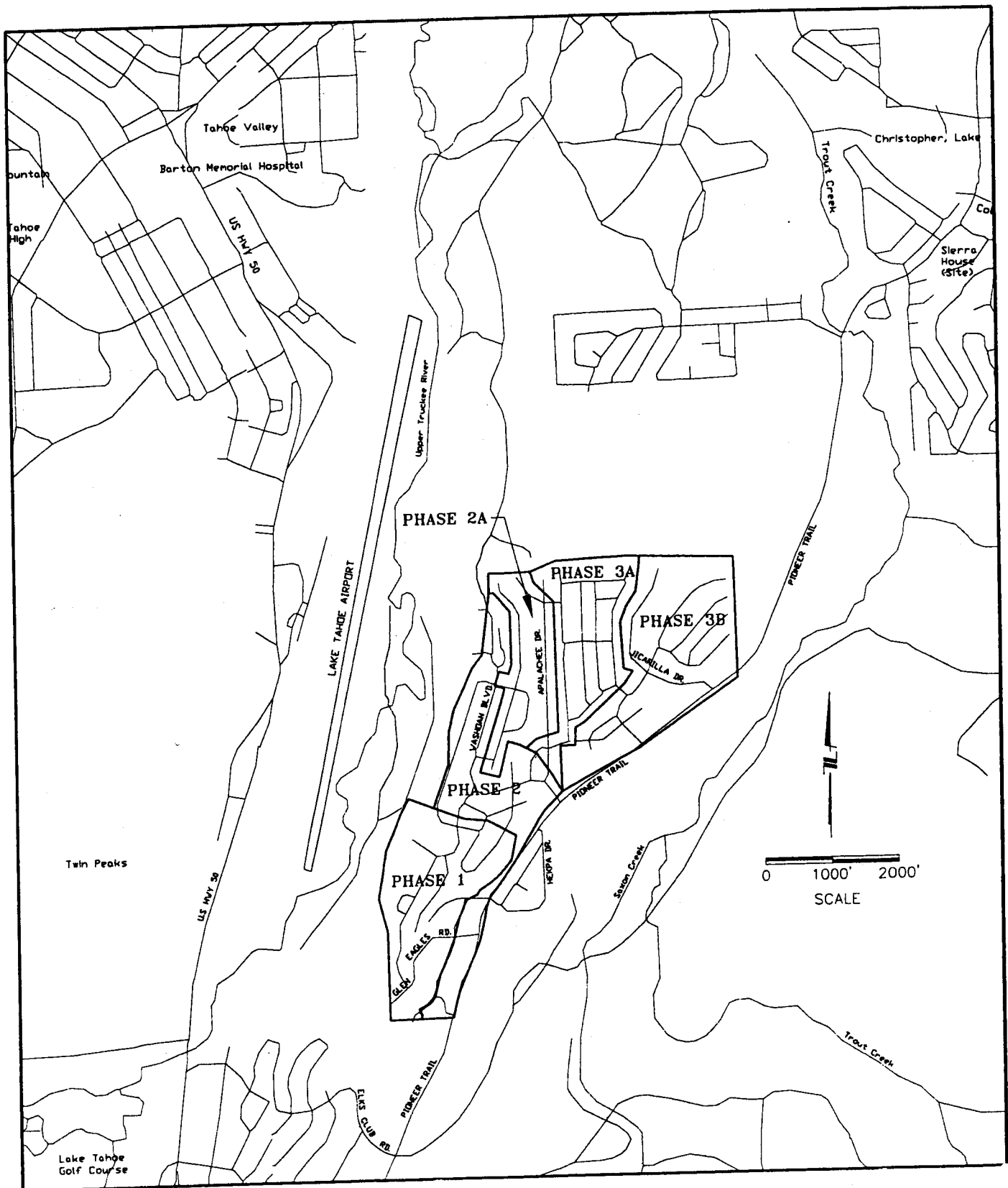
Staff recommends that the Conservancy make the findings as set forth in the attached resolution and authorize the grant funding. If the Board authorizes the funding, staff will file a Notice of Determination with the State Clearinghouse pursuant to Section 15096 of the State CEQA Guidelines. Attachment 6 contains the Conservancy's proposed Notice of Determination.



APALACHEE 3 EROSION CONTROL PROJECT

LOCATION MAP

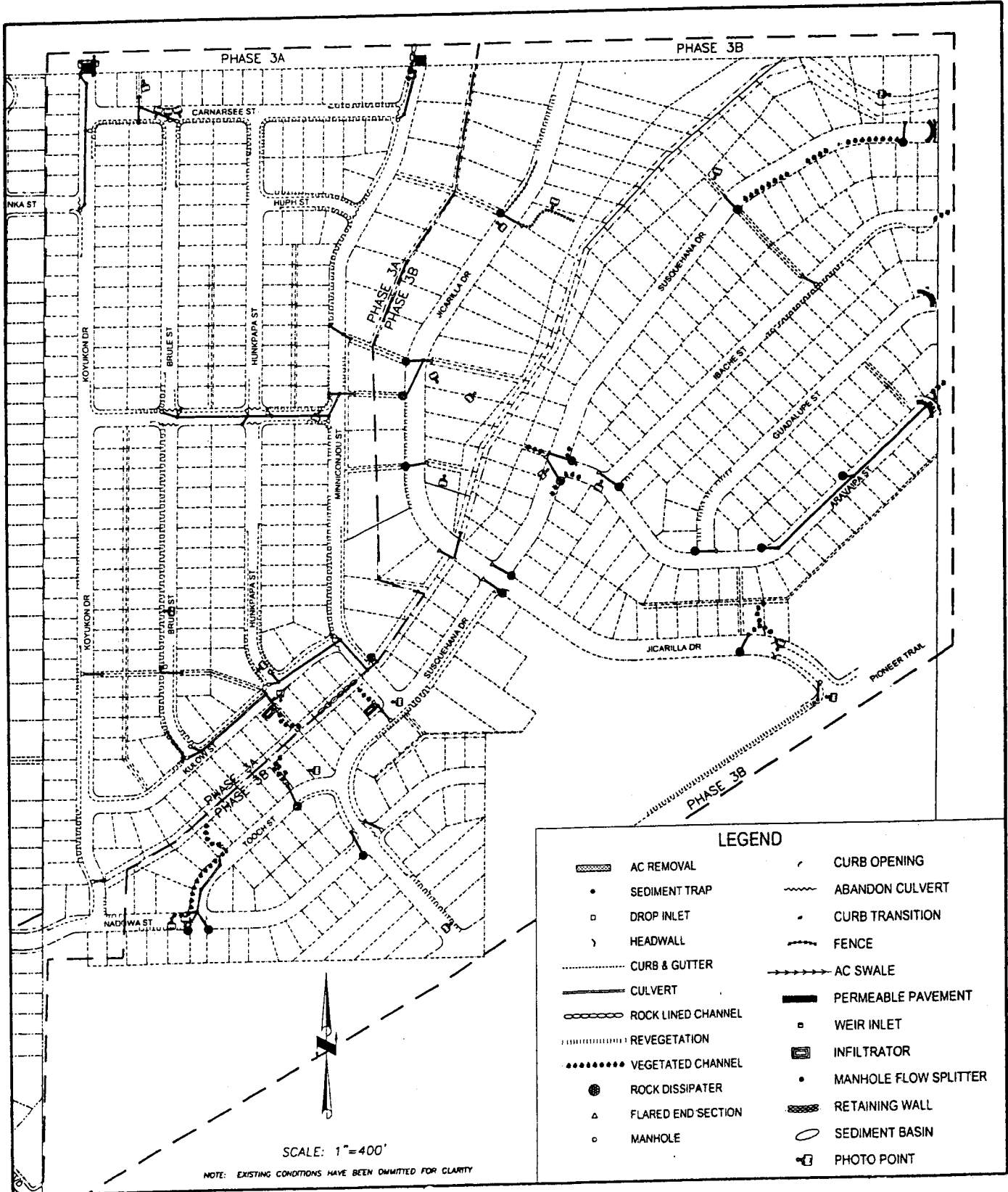
Map 1 of 2



APALACHEE 3 EROSION CONTROL PROJECT

PROPOSED IMPROVEMENTS

Map 2 of 2



ATTACHMENT 4
(Page 1 of 1)

Proposed Fee Title and Easement Acquisitions of Privately Owned Parcels

Placer County

Tahoe Estates Erosion Control Project

Fee Acquisitions

Placer County APN

117-030-016	117-030-015
117-040-034	117-040-035
117-050-008	117-050-007
117-060-008	112-120-035

Easement Acquisitions

Placer County APN

117-060-008	117-060-002
117-050-009	117-050-017
117-050-013	

ATTACHMENT 5

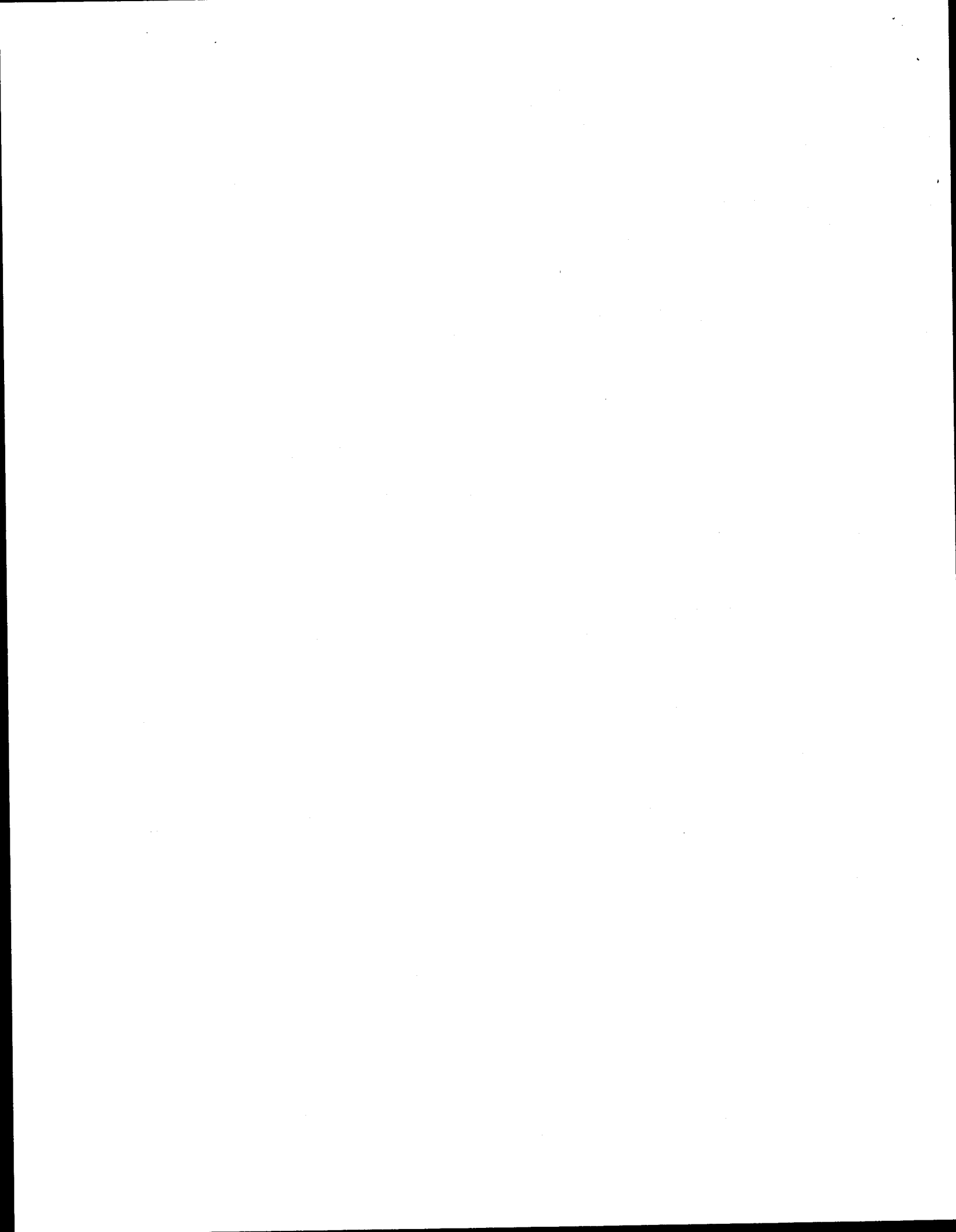
(Page 1 of 1)

**CTC Parcels Proposed for License Agreements
Associated with Soil Erosion Control Project Improvements**

El Dorado County

Apalachee 3 Erosion Control Project

APN	Proposed improvements
033-884-13	Biospreaders, Vegetated Swale
033-873-04	Infiltration Basin, Vegetated Swale
033-873-22	Infiltration Basin, Culvert, Sediment Trap
033-873-27	Sediment Trap, Rock-lined Channel, Infiltration Basin
033-873-32	Sediment Trap, Culvert, Infiltration Basin
033-884-12	Biospreaders, Vegetated Swale
080-071-25	Sediment Trap, Vegetated Swale, Infiltration Basin
080-092-14	Sediment Trap, Vegetated Swale, Infiltration Basin



ATTACHMENT 6

NOTICE OF DETERMINATION

TO: Office Of Planning And Research
PO Box 3044, 1400 - Tenth Street, Room 212
Sacramento, California 95814-3044

FROM: California Tahoe Conservancy
1061 Third Street
South Lake Tahoe, California 96150

SUBJECT: Filing of Notice of Determination in compliance with Section 21108 or 21152 of the Public Resource Code.

Project Title: Apalachee 3 Erosion Control Project

State Clearing House Number	Contact Person	Telephone Number
99122015	Penny Stewart	(530) 543-6013

Project Location:

The Apalachee 3 Project is in El Dorado County and is bounded by Pioneer Trail on the south and east, Apalachee Drive to the west, and a tributary to Trout Creek to the north.

Project Description:

El Dorado County proposes to construct and maintain storm water facilities and implement erosion control practices in the Tahoe Paradise Units 4 and 5 subdivisions, as identified in the Lake Tahoe Environmental Improvement Program. This project is adjacent to other recently completed erosion control projects in the surrounding neighborhood.

This is to advise that the California Tahoe Conservancy, acting as a responsible agency, has approved the above described project on December 8, 2006 and has made the following determinations regarding the above described project:

1. The project will not have a significant effect on the environment.
2. A Mitigated Negative Declaration for the project was prepared and approved by the El Dorado County Board of Supervisors on February 8, 2000 and a Notice of Determination was filed February 11, 2000. Addendums to the Mitigated Negative Declaration for the Apalachee Phase 3A and 3B projects were prepared and approved by the El Dorado County Board of Supervisors on November 15, 2005. The Notice of Determination, Mitigated Negative Declaration, Addendums, and record of project approval may be examined at the El Dorado County Department of Transportation, 924B Emerald Bay Rd., South Lake Tahoe, CA 96150. The California Tahoe Conservancy previously reviewed and considered the Mitigated Negative Declaration that was prepared by the El Dorado County prior to project approval, and a Notice of Determination was filed by the Conservancy on May 25, 2000.
3. Mitigation Measures were made a condition of the approval of the project by El Dorado County and the California Tahoe Conservancy.
4. A Statement of Overriding Considerations was not adopted for this project.
5. The Conservancy finds that no substantial changes are proposed in the project, and no substantial changes have occurred with respect to the circumstances under which the project is taken that would affect any potentially significant environmental effects. Furthermore, there are no changes regarding the project that would require new or different mitigation measures.
6. A California Department of Fish and Game De Minimis Impact Finding was made for this project. A copy of the Certificate of Fee Exemption will be filed with this Notice.

Fish and Game Fees: See above

Date Received for Filing:

Patrick Wright
Executive Officer

ATTACHMENT 6

NOTICE OF DETERMINATION

TO: Office Of Planning And Research
PO Box 3044, 1400 - Tenth Street, Room 212
Sacramento, California 95814-3044

FROM: California Tahoe Conservancy
1061 Third Street
South Lake Tahoe, California 96150

SUBJECT: Filing of Notice of Determination in compliance with Section 21108 or 21152 of the Public Resource Code.

Project Title: Tahoe Estates Erosion Control Project

State Clearing House Number	Contact Person	Telephone Number
2005122114	Scott K. Cecchi	(530) 543-6015

Project Location:

The Tahoe Estates Erosion Control Project is located on the north shore of Lake Tahoe in the Tahoe Vista area. The project area is generally bounded Kings Way on the north, Lake Tahoe to the south, National Avenue to the east, and Kings Vista Court and Fawn Lane to the west.

Project Description:

The project area is located immediately adjacent to Lake Tahoe. Excessive runoff is generated by impervious residential development, including paved and unpaved roadways and rooftops. A variety of unstable sediment sources exist in the project area, including eroding road shoulders, cut slopes and two unpaved County maintained roadways (Wildrose Drive and Laurel Avenue). Storm water runoff in the project area typically flows down unstable earthen road shoulders and into drainage systems that quickly convey sediment and nutrients to Lake Tahoe, contributing to the reduction of clarity of the lake.

This is to advise that the California Tahoe Conservancy, acting as a responsible agency, has approved the above described project on December 8, 2006 and has made the following determinations regarding the above described project:

1. The project will not have a significant effect on the environment.
2. A Mitigated Negative Declaration for the project was prepared and approved by the Placer County Board of Supervisors on February 21, 2006 and a Notice of Determination was filed March 1, 2006. The Notice of Determination, Mitigated Negative Declaration, and record of project approval may be examined at the Placer County Department of Public Works, 10825 Pioneer Trail, Suite 105, Truckee, CA, 96161.
3. Mitigation Measures were made a condition of the approval of the project by Placer County and the California Tahoe Conservancy.
4. A Statement of Overriding Considerations was not adopted for this project.
5. The Conservancy finds that no substantial changes are proposed in the project, and no substantial changes have occurred with respect to the circumstances under which the project is taken that would affect any potentially significant environmental effects. Furthermore, there are no changes regarding the project that would require new or different mitigation measures.
6. A California Department of Fish and Game De Minimis Impact Finding was made for this project. A copy of the Certificate of Fee Exemption will be filed with this Notice.

Fish and Game Fees: See above

Date Received for Filing:

Patrick Wright
Executive Officer

**APALACHEE PHASE 3
EROSION CONTROL PROJECTS
(JN 95183/95184)**

2006 CTC Site Improvement Grant Augmentation
Final Application

November 2006

El Dorado County
Department of Transportation

APALACHEE PHASE 3 EROSION CONTROL PROJECT
JN 95183/95184, EIP #188

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FINAL APPLICATION COVER SHEET

This form should be used as a cover sheet for both pre-applications and final applications. Supporting information should be attached.

1. Applicant: **El Dorado County Department of Transportation**
Address: **924B Emerald Bay Road, South Lake Tahoe, CA 96150**
Contact Person: **Steve Kooyman** Phone: **(530) 573-7910**
Fax: **(530) 541-7049**
2. Project Title: **Apalachee Erosion Control Project Phase 3**
3. Amount requested from CTC for Site Improvements: **\$1,500,000**
Amount requested from CTC for Land Acquisitions: **-0-**
4. Project Location: **See Figure A.**
5. Problem Description: **See Figure B and Project Narrative.**
6. Project Description: **See Project Narrative. See Figure C for proposed improvements.**
7. Acquisitions: **None.**
8. Schedule: **See Figure J.**
9. Additional information, such as other funding sources. Attach photographs and past studies, if available. **We have received \$1,180,333 and spent \$316,121 in U.S. Forest Service Funds. We intend to apply for \$1,556,623 in U.S. Forest Service Funds in December 2006 as part of the SNPLMA Round 7 funds.**

**APALACHEE PHASE 3 EROSION CONTROL PROJECT
SITE IMPROVEMENT GRANT AUGMENTATION**

PROJECT SYNOPSIS

November 8, 2006

APPLICANT:

El Dorado County Department of Transportation

LOCATION:

The project is located between Pioneer Trail and the Lake Tahoe Airport, generally bounded by Pioneer Trail on the south and east, U.S. Forest Service (USFS) lands on the north, and the Upper Truckee River and the former Caltrans freeway right-of-way corridor on the west (now owned by the Conservancy). The Phase 3 project area includes the Tahoe Paradise Addition Unit Nos. 4 and 5 subdivisions, encompassing a total of 170 acres (Figure A).

TOTAL PROJECT COST (estimated): \$6,310,165

AMOUNT REQUESTED FROM CONSERVANCY:

Site improvements: \$1,500,000

AMOUNT RECOMMENDED:

Site improvements: \$1,500,000

OTHER FUNDING SOURCES:

Previous Conservancy Grants:

Site improvements - CTA-99022 (2000):	\$40,000
Acquisitions - CTA-99022.1 (2001):	\$7,140
Site Improvements - CTA-02007 (2003):	\$1,766,300
Acquisitions - CTA-99022.4 (2005):	\$90,000

USFS Southern Nevada Public Lands Management Act (2004) \$108,796
Round 5

USFS Southern Nevada Public Lands Management Act (2005) \$1,180,333
Round 6

Bureau of Reclamation, Lake Tahoe Regional Wetlands
Development Program (2006) \$200,000

PROJECT DESCRIPTION:

The project area consists of steep eroding cut banks and steep roadways that are heavily sanded in the winter for driving safety. The runoff from roadways and cut slopes drains into vegetated but channelized stream environment zones (SEZs) depositing sediment and road sand/cinder. The deposition of road sand/cinder and sediment reduces the effectiveness of these SEZ areas in treating the runoff. These SEZs discharge into the Upper Truckee River and a tributary that drains into Trout Creek, both of which flow into Lake Tahoe. The water quality of these streams and Lake Tahoe is negatively affected by this decline in SEZ performance. The deposition of road sand/cinder and sediments generated from cut slopes reduces the effectiveness of SEZ areas in treating runoff.

PROJECT BACKGROUND:

Due to annual funding limitations and the large scale and cost of this project, it has been necessary to fund the project over several grant cycles.

All three phases of the project area are depicted in Figure A. Phase 1 was in August 2005 and Phase 2 was completed in June 2006. Phase 2A of the project was just completed in October 2006, with Phase 3A construction scheduled for 2007 and Phase 3B in 2008. Phase 3 has been subdivided into a 3A and 3B section. This was done due to scheduling, funding, and differences with the watersheds. However, both project sections have been included in this application to provide a complete overview of the Phase 3 Project area.

The requested grant funds are needed to fund additional improvements identified in reviewing alternatives for the site, and increases in unit costs based on current cost estimates and related design and administration costs. The Conservancy and the County agreed to implement the Preferred Design Approach required under the new erosion control guidelines with the intention that this new process would allow the Project Development Team (PDT) to reach consensus on and implement the most effective alternative for water quality and erosion control. As a result, an abbreviated form of the Formulating and Evaluating Alternatives (FEA) process, developed through the Storm Water Quality Improvement Committee (SWQIC), has been applied in combination with the Conservancy's sediment reduction efficiency formula, and applies to all three phases. As a result of the hybrid process, alternative improvements for Phase 2, 2A, and 3, have been identified. The hybrid FEA process has yielded innovative solutions to water quality improvements and erosion control. Additional improvements for Phase 3 have been identified during the hybrid process. For example, **Figure C** illustrates the proposed improvements resulting from the hybrid FEA process.

In the County's most recent project, Phase 2A, the contractor's bid was 30% greater than the engineer's estimate. This percent difference is consistent with bids received by other local agencies. In addition, costs for the added site improvements that were identified as part of the FEA process have resulted in the County incurring additional design and administration costs. The reports for the hybrid process required more detail, with emphasis on sediment loading analysis and source control, and also information such as maps of cultural features and vegetation for the entire project area. The addition of improvements to Phase 3 that have been identified as part of the FEA process have resulted in a projected Phase 3 construction budget increase. The increase in cost is attributed to unit construction cost increases, and it is reasonable to expect construction costs to increase by the same proportional percentage to those for Phases 1, 2, and 2A. **Figures F-1 to F-4** shows the Phase 3A and **Figures F-5 to F-8**

shows the Phase 3B construction cost estimate with forecasted increases already accounted for in the unit prices. The site improvement budget summary for the project is shown in **Figure G**.

The Phase 3A project plans and specifications were completed on April 20, 2006 and the County advertised for construction bids from May 23 through June 13. After the advertisement period was complete, the County did not receive any bids. This may have been attributed to many factors such as the limited number of contractors in the area, late advertisement for the current construction season, and the increase in material costs, just to name a few. Therefore, in order to facilitate the progress of this project the County proposed three alternatives related to re-bidding Phase 3A.

1. Re-bid Phase 3A in the fall of 2006 for construction in 2007, if we can obtain sufficient funds for the current bid set for Phase 3A and increase the estimate to match the percent increase experienced in the bids this past season.
2. Re-bid Phase 3A in the fall of 2006 with a bid set that has a reduced scope of work. The scope of work would be reduced commensurate with the funding remaining and to cover the Design and Administration costs associated with producing plans and specifications with a reduced scope and re-bidding the project.
3. Re-bid the current bid set in the spring of 2007 upon receiving funding for Phase 3A commensurate with a new Engineer's Estimate that reflects the increases in construction costs.

It is the County's opinion that the first alternative above is the most practicable approach to successfully obtaining competitive bids. This strategy enables the local contractors to secure projects for the upcoming construction season. The Phase 3A project plans and specifications have been updated and will be advertised again for construction bids in mid-November.

Beginning with the Phase 2A and Phase 3A Projects, the County advertised each project using the bid schedule format with Base Bid (Schedule A) and Additive Alternate Bid (Schedule B). By advertising in bid schedules, this allowed the flexibility in awarding the construction contract should the total bid exceeded the available funding. For instance, the County can propose to award the work contained in the Base Bid (Schedule A), and may award the Additive Alternate Bid (Schedule B); however, the Schedule B work may be awarded with Schedule A, or awarded at a later date to ensure funding is in place, or not awarded at all.

Previous total project costs were estimated at \$4,395,130. The revised total estimated cost is \$6,310,165. The cost increase is due to unit construction material cost increases, adoption of the hybrid process, and County design and administration costs discussed above. As part of the project, the County developed a strategy to obtain Federal environmental clearance for Phases 2 and 3 to allow the County to pursue Federal grant funds to augment State funds. In October 2004, the County received \$2,015,000 in Round 5 USFS SNPLMA funding of which \$108,796 was budgeted for Phase 3 and also received \$2,865,544 in Round 6 SNPLMA funds in May 2006 of which \$1,180,333 was budgeted for Phase 3.

The project involves stabilizing existing sediment sources, capturing road sand/cinder, and treating the storm water and snowmelt runoff. The proposed improvements are shown on **Figure C** which represents the endorsed project that was developed as part of the hybrid FEA project development process described above. To stabilize existing sediment sources, cut slopes will be revegetated. A compost seed, fertilizer, and inoculum mix will be used to revegetate the bare slopes. In areas where the toe of the slope is also bare, a combination of compost and seed, and rock breast wall, is proposed to stabilize the toe of the slope and reduce the slope angle. Curb and gutter will protect soils from disturbance by snow removal equipment

and from erosive storm water flows. Curb and gutter will also convey runoff and road sand/cinder into sediment traps which will capture coarse sediments. These measures will reduce the sediment load that would otherwise reach SEZs and sediment basins, and will improve their effectiveness in removing fine sediment and nutrients.

In areas surrounded by development, runoff will be treated by constructing storm water infiltration chambers outside SEZs. Where possible, existing sod, willows, and topsoil will be salvaged and replanted in the basins. Outflow from the chambers will be directed to the existing man-made drainage channels via rock-lined channels or vegetated swales. In SEZ areas that are gently-sloping and do not have development or man-made channels cutting through them, flow spreading devices will be constructed to provide nutrient uptake, storm water retention, and additional sediment removal.

In order to ensure plant survival and long-term slope stability on the proposed revegetation areas of the project, the County has proposed a strategy to ensure plant survival, including irrigation, soil enhancement, and seed application. Irrigation will be applied to the revegetation sites twice a week during the first growing season, with drier sites receiving additional irrigation. Second growing season irrigation will consist of one watering per week, with drier areas receiving additional attention. Irrigation and plant establishment will continue for a period of two years following construction and will include additional irrigation and replanting if necessary.

Erosion control and water quality improvements funded under this grant cycle include 655 linear feet of vegetated channel, 62 sediment traps, 2170 square feet of rock sediment bowl, 14,047 linear feet of curb and gutter w/ AC tie in, 4 storm water treatment areas, 26 biospreading devices (coir log), 985 square feet of AC removal, 4,946 linear feet of HDPE storm drain pipe, 36 drop inlets, and other measures. The total Conservancy-funded budget for site improvements is shown in **Figure G**. **Figure J** shows the proposed project schedule.

The County has previously been granted \$97,140 for easement and fee title acquisitions expected to be needed for this project. No additional easements will be required by the County.

It is anticipated that Phase 3 will involve two (2) USFS parcels. The Decision Memorandum and Special Use Permit (SUP) were received on June 9, 2006 for the use of these parcels in the Phase 3A Project Area. For Phase 3B, a SUP Application for the Phase 3B will be submitted in November 2006 which includes the F-299 form, an attachment to the form providing supplemental information, and figures depicting proposed improvements. In addition, a complete NEPA package for consideration of Categorical Exclusion will be provided.

It is anticipated that eight (8) Conservancy-owned parcels will be used as part of this project. The Conservancy parcels include one more parcel than was previously reported to the board. The additional Conservancy parcel includes Assessor Parcel Number:

33-884-13

The publicly-owned parcels are expected to be used for erosion and sediment control improvements, including culvert, sediment basin or infiltration chambers, rock bowl, rock-lined channel and flow spreading devices. If the board approves this recommendation, staff proposes to grant easements or licenses, in accordance with a previous board authorization, to construct and maintain improvements on these parcels. **Figure H** shows the revised list of Conservancy parcels to be used for site improvements. A map showing the location of the additional Conservancy parcels is shown on **Figure I**.

The County will conduct photo monitoring of revegetation areas, surface water runoff, sediment basins, and storm water treatment devices within the project area to monitor general performance and effectiveness of the improvements for a period of two years following construction. The County will ensure proper maintenance practices of these improvements and best management practices (BMPs). **Figure C** shows the proposed photo monitoring points.

County staff is currently working with Conservancy staff and with water quality monitoring staff at U.C. Davis to review the water quality monitoring program for this and other erosion control projects. If justified, the monitoring plan may be modified. Increased costs for monitoring could be funded from the contingency budget or from other sources.

CONSISTENCY WITH CRITERIA:

Significant and documentable benefit to Lake Tahoe water quality

TRPA's Water Quality Management Plan for the Lake Tahoe Region was prepared pursuant to the requirements of Section 208 of the Federal Clean Water Act and is often referred to as the "208 Plan". The 208 Plan is a key document guiding water quality management in the Tahoe Basin. TRPA's EIP complements and updates the Capital Improvements Program of the 208 Plan. The Apalachee erosion control project is listed in TRPA's EIP as Project # 188.

The 208 Plan states that management practices necessary to control the problems associated with streets, roads, and highways should be geared toward infiltration of runoff; revegetation of denuded areas; and stabilization of unstable drainages, slopes, and shoulders. Without proper stabilization these areas are potential sediment sources that can affect Lake Tahoe. According to the 208 Plan, street and road networks, in combination with existing development, represent a significant source of elevated sediment and nutrient loads that the lake is currently receiving. Studies in other parts of the country indicate that BMPs can reduce yields of suspended sediment from small urbanized areas by 80 to 100 percent, and yields of phosphorus and nitrogen by 40 to 80 percent. The long-term decline in lake clarity has long been associated with increased algal productivity. Studies by the Tahoe Research Group (TRG) indicate that the lake is now phosphorus-limited; adding phosphorus to the lake increases algal productivity more than other nutrients, like nitrogen. Algal growth is particularly responsive to the combination of nutrients, trace elements, and natural organic compounds released by the erosion of Tahoe watersheds. Since phosphorus adheres to sediment, it often enters Lake Tahoe attached to sediment contained in surface runoff, particularly fine sediment. Recent TRG studies also indicate that very fine inorganic particles may significantly contribute to the reduced clarity of the lake. Conservancy projects work to control waterborne nutrient and fine sediment inputs to tributaries and the lake by reducing and preventing erosion, reducing runoff volume generated, and treating storm water to remove pollutants.

Installation of storm drain pipe and paved swales reduces erosion by providing a non-erodible surface to carry runoff and helps control the path the storm runoff takes. Drainage improvements, such as rock-lined channels, reduce erosion by decreasing the velocity of runoff and by protecting underlying soils. Revegetation of road shoulders reduces erosion by physically stabilizing soil. Sediment traps and infiltration and treatment basins help remove sediment and nutrients from storm runoff. The infiltration and treatment improvements also may reduce the peak flows and slow the delivery of storm runoff to the treatment basins within the project area. Site improvements from this project will contribute to the goal of completing the EIP and bringing all County roads into compliance with the 208 Plan's goal of completing all Best

Management Practices on County roads by 2008.

Adequacy of design

The FEA process was used in identifying needed improvements. The proposed combination of treatment measures and their placement on the site are appropriate for addressing the identified problems within the project area. Proven erosion control techniques will be used including: curb and gutter, revegetation, rock-lined channels, sediment basins, sediment traps, culverts, vegetated swales, and flow spreading measures.

Comprehensiveness

The proposed grant request will be used to address the erosion problems in the Phase 3 Project Area. After the completion of Phase 3A and Phase 3B, the entire watershed will have been addressed for water quality issues for the Apalachee Project Areas.

Cost-effectiveness

In response to the May 2001 adoption by TRPA of the updated EIP, and recent scientific findings regarding the cause of the decline in Lake Tahoe's clarity, the Conservancy, in July 2001, adopted revised grant guidelines for erosion control projects. Prior to July 2001, all site improvement projects were required to meet a minimum sediment reduction efficiency standard of 6.4 pounds of sediment retained per State dollar spent on site improvements. The new guidelines replaced the sediment reduction standard with the preferred design approach as a requirement for funding new projects. Projects that received Conservancy site improvement funding before July 2001 must continue to meet the sediment reduction standard when new State funding is added. Since this project received a Conservancy site improvement grant prior to July 2001, it is required to meet the 6.4 lbs. per dollar sediment reduction standard. With the addition of site improvements under the hybrid project development process, this project has an estimated sediment reduction efficiency of 7.13 lbs. per dollar, which is based on a State contribution of **\$3,306,300** for site improvements (the total of all Conservancy site improvement funding to date, including this year's funding request, is shown in **Figure G**). This efficiency rating exceeds the minimum standard of 6.4 lbs. per dollar required for eligibility under this grant program.

In addition to Conservancy funds, the project has received \$108,796 in USFS Southern Nevada Public Lands Management Act (2004) funds and \$1,180,333 in USFS Southern Nevada Public Lands Management Act (2005).

Implementability

As mentioned above, the project plans and specifications are complete for the Phase 3A Project Area and will advertise for construction bids in mid-November 2006. The Phase 3B project plans are currently in its pre-final design stage and the anticipated completion of final plans will be in February 2007.

Phase 3A is readily implementable, since most of the improvements will be constructed within County right-of-way and on publicly-owned land.

Cooperation and Support

The County has and will always coordinate with all utilities as part of the Project Delivery Process (PDP). As part of the PDP for this project, the County has consulted with the following utilities during the Scoping PDT Meeting, Existing Conditions Analysis PDT Meeting, the Formulating Alternatives Memorandum PDT Meeting, the Preferred Alternative PDT Meeting, and the Pre-Final Plans, Specifications and Reports PDT Meeting:

1. South Tahoe Public Utility District
2. Southwest Gas
3. Sierra Pacific Power Co.
4. AT&T
5. Charter Communications

These meetings serve several purposes: 1) coordinating with the utilities with respect to the project planning efforts; and 2) to discuss potential utility conflicts with the preferred alternative. As part of the PDP, we also send out preliminary base maps to the utilities for input related to preliminary locations (vertical and horizontal) relative to their infrastructure.

During the Plans, Specifications and Engineers Estimate Phase of the PDP, the County further coordinates with the utility companies with respect to locating their utilities exactly through pothole exploration at the locations where our drainage structures appear to be in conflict. If the utility company provides the County the necessary information required and within the time requested, the County would have the opportunity to avoid relocation and/or provide a cost estimate to the utility companies, which would cover the relocation from a grant to be obtained by them. Therefore, through our planning efforts and through the current design coordination, the County believes that we have completed an effort to minimize utility relocations.

The utilities have provided the County with the required information prior to construction, therefore avoiding potential utility conflicts and any major design changes. However, if the information requested was not provided prior to the project being bid and a utility conflict arises during construction that can't be avoided, the County will require the utility to be moved or relocated at the respective utility company's expense. If the utility company believes that there might be a conflict prior to bid, then it is the County's position that it is up to that particular utility company to obtain grant funds necessary to complete the relocation.

The California Conservation Corp (CCC) will complete any vegetation replacement, which might be required and which is outside the warranty work of the Contractor, with oversight from the County's staff. The County will also utilize the CCC for various non-critical revegetation work, which is less expensive than the Construction Contractor. Crews will construct a variety of revegetation and erosion control methods including; installation of erosion control fabrics, straw wattles, willow wattles, seed, mulching, sod, rock, miscellaneous grading, as well as various source control BMP measure installations which are outside the scope of the Construction Contract. The use of the CCC crews is a cost saving measure. For example, this past construction season crews reconstructed approximately 220 linear feet of an existing drainage channel. This channel is located between Apalachee Drive and Onnontioga Street in the Phase 2A project area situated on steep, well vegetated terrain. An average of five workers per crew, the five-day work included clearing and grubbing, placement of blanket, rock replacement, and oversight. The total estimated cost including materials was less than \$5,000. Using the most recent contractor bids for rock-lined channel, this same channel would have cost approximately \$8,600 if work was done by the contractor which equates to 42% cost reduction.

The CCC crews have also been used throughout the Apalachee Erosion Control Projects and

will continue to use their services. Crews were involved in Phases 1, Phase 2, and Phase 2A in adding seed and soil amendment, rock rip rap placement, sod mat placement, and miscellaneous revegetation work.

The El Dorado County Board of Supervisors, LRWQCB staff, and TRPA staff support the proposed improvements.

Pilot BMP

During the design phase of the Phase 3A project, the County decided to incorporate another type of BMP, infiltration galleries. There were two types of infiltration galleries used in different locations, an infiltration trench and retention chambers. The systems are similar in that both allow for the treatment of storm water runoff, though the retention chambers have a much larger capacity. These two BMPs will not only capture runoff and infiltrate but also trap any fine sediment that enters the systems. The removal efficiency for infiltration of all pollutants is assumed to be 100% for the design storm water quality volume since no water is discharged to surface waters.

Care was taken to ensure that proposed depression locations and infiltration chamber sites offered the least disturbance. Minimum tree removal and minimal disturbance to the overall landscape was taken into consideration during the design of these BMPs. The County will monitor the performance and effectiveness of these BMPs and ensure proper maintenance practices.

CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) COMPLIANCE:

El Dorado County initially prepared a Mitigated Negative Declaration for this project. The County has determined that this project will not have a significant effect on the environment and has filed a Notice of Determination with the State Clearinghouse. The County's Notice of Determination, the Mitigated Negative Declaration, and the CEQA Initial Study were submitted in the 2005 CTC Final Grant Application.

The Initial Environmental Study (IES) and a Mitigated Negative Declaration (MND) for the project were prepared and approved at the conceptual stages of design. Minor modifications were made to Phase 3 design elements and were made since the Notice of Determination was initially filed in 2000. The subsequent Addendum to the Mitigated Negative Declaration and project modifications are attached. The design modifications did not require any changes to the responses in the Initial Study Checklist, and no new significant effects or mitigation measures resulted. Pursuant to CEQA Guidelines Section 15162, as applicable to an IES/MND, El Dorado County concluded that the project modifications resulted in the following:

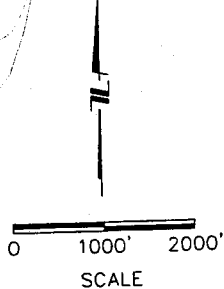
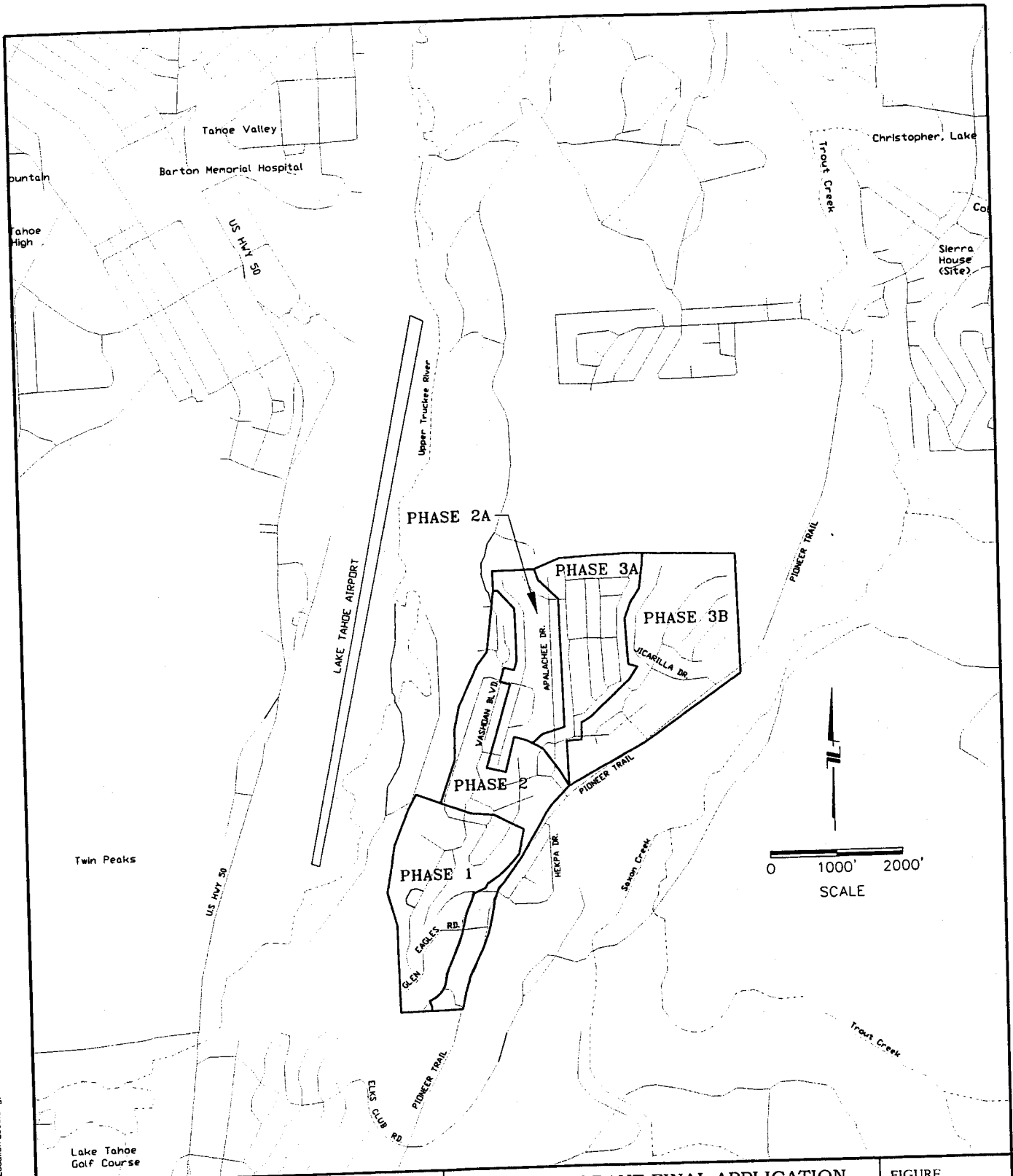
- 1) No substantial changes were proposed in the project, which would require major revisions of the previous IES/MND due to the involvement of new significant environmental effects;
- 2) There has been no substantial change with respect to the circumstances under which the project is being undertaken that would require a major revision of the previous IES/MND due to the involvement of new significant environmental effects;
- 3) No new information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the IES/MND was adopted, shows that the project will have one or more significant effects not discussed in

the previous IES/MND. Furthermore, the mitigation measures adopted in the IES/MND remain the same.

Based on the above findings, the El Dorado County Department of Transportation has concluded that the preparation of a subsequent IES/ND for the project was unnecessary, and that the preparation of an Addendum was appropriate in accordance with CEQA Guidelines Section 15164. **On November 15, 2005** the County's board of Supervisors approved the CEQA Addendum, see attached.

RECOMMENDATION:

The El Dorado County Department of Transportation to CTC recommends approval of a grant augmentation of \$1,500,000 to CTA 02007 for Phase 3 site improvements for this project in that it will allow for the Phase 3A Project to be constructed in 2007 and should result in a significant benefit to Lake Tahoe water quality.



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EL DORADO COUNTY
SOUTH LAKE TAHOE OFFICE



2006 CTC GRANT FINAL APPLICATION
APALACHEE EROSION CONTROL PROJECT

Project Location Map

DATE: 09/06

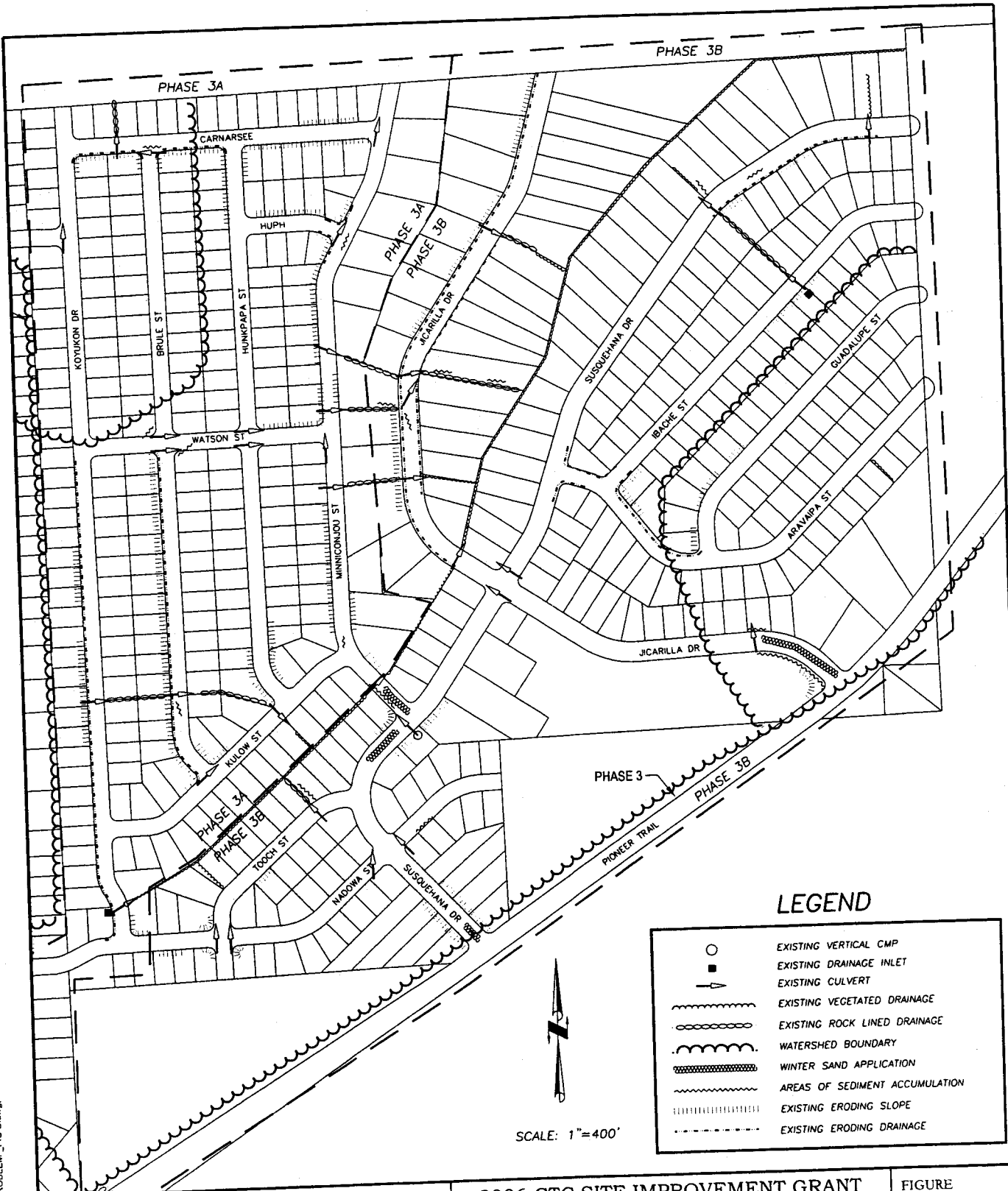
PROJECT NO: 95183/95184

BY: DSP

FIGURE

A

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LEGEND

	EXISTING VERTICAL CMP
	EXISTING DRAINAGE INLET
	EXISTING CULVERT
	EXISTING VEGETATED DRAINAGE
	EXISTING ROCK LINED DRAINAGE
	WATERSHED BOUNDARY
	WINTER SAND APPLICATION
	AREAS OF SEDIMENT ACCUMULATION
	EXISTING ERODING SLOPE
	EXISTING ERODING DRAINAGE

SCALE: 1"=400'



EL DORADO COUNTY
SOUTH LAKE TAHOE OFFICE



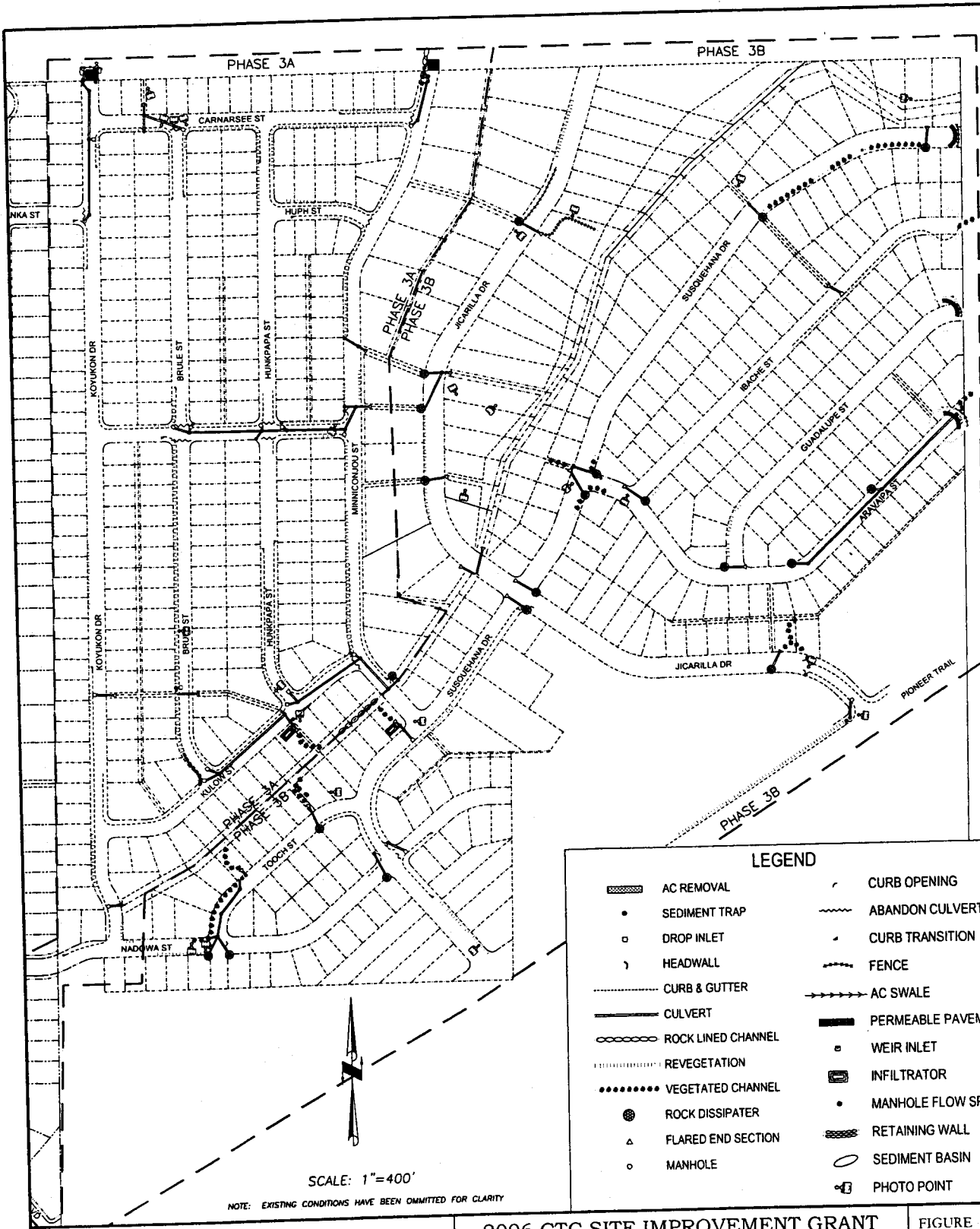
2006 CTC SITE IMPROVEMENT GRANT
AUGMENTATION FINAL APPLICATION
APALACHEE EROSION CONTROL PROJECT
Problem Areas and Watershed Boundary

FIGURE
B

DATE: 09/06

PROJECT NO.: 95183/95184

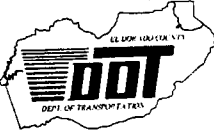
BY: TA



LEGEND

AC REMOVAL	CURB OPENING
SEDIMENT TRAP	ABANDON CULVERT
DROP INLET	CURB TRANSITION
HEADWALL	FENCE
CURB & GUTTER	AC SWALE
CULVERT	PERMEABLE PAVEMENT
ROCK LINED CHANNEL	WEIR INLET
REVEGETATION	INFILTRATOR
VEGETATED CHANNEL	MANHOLE FLOW SPLITTER
ROCK DISSIPATER	RETAINING WALL
FLARED END SECTION	SEDIMENT BASIN
MANHOLE	PHOTO POINT

EL DORADO COUNTY
SOUTH LAKE TAHOE OFFICE

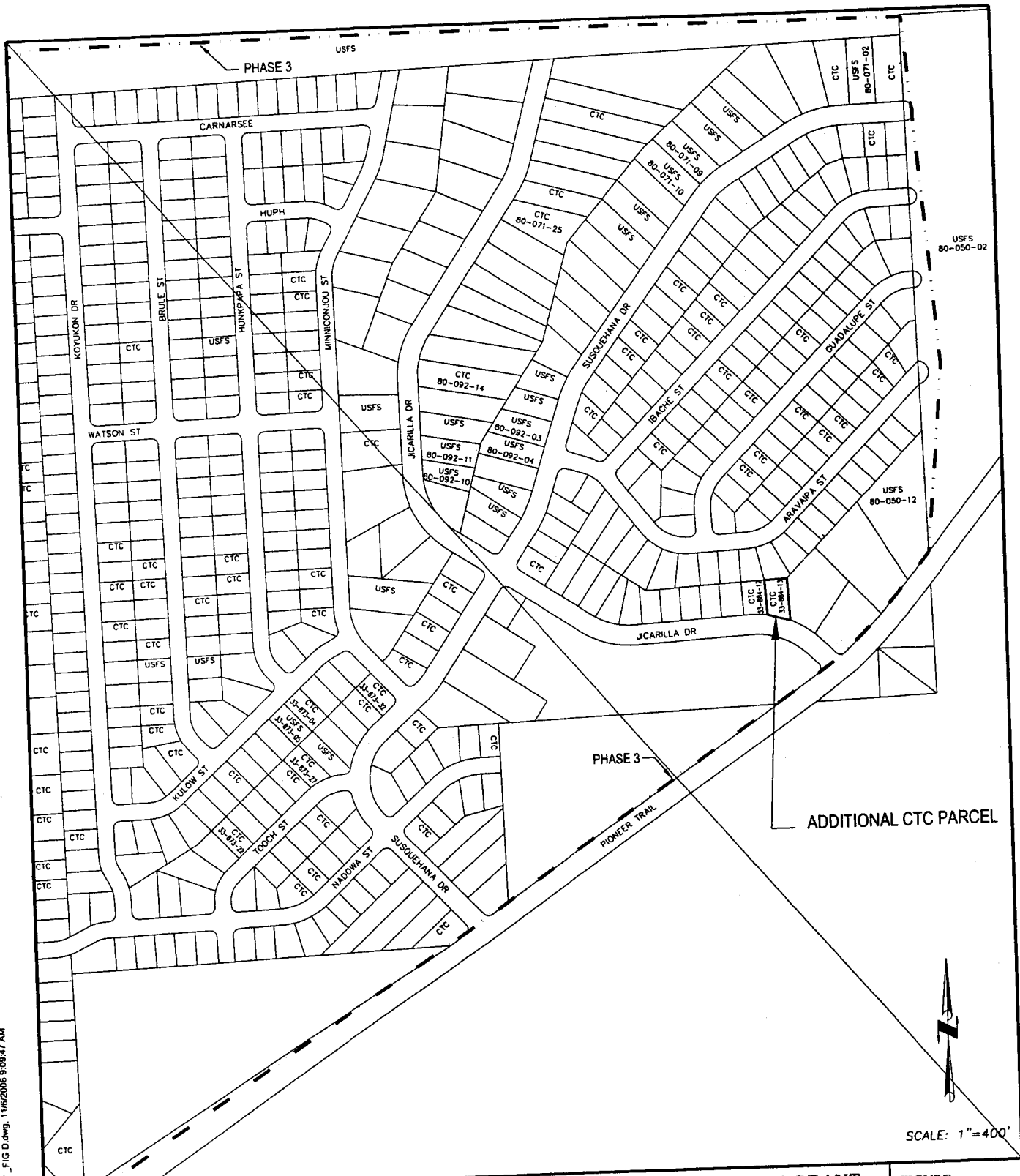


**2006 CTC SITE IMPROVEMENT GRANT
AUGMENTATION FINAL APPLICATION
APALACHEE EROSION CONTROL PROJECT**
Proposed Improvements and Photo Monitoring Points

FIGURE
C


DATE: 09/06 PROJECT NO.: 95183/95184 BY: TA

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SCALE: 1"=400'

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<p>EL DORADO COUNTY SOUTH LAKE TAHOE OFFICE</p>		<p>2006 CTC SITE IMPROVEMENT GRANT AUGMENTATION FINAL APPLICATION APALACHEE EROSION CONTROL PROJECT Public Property and Right of Way Acquisition</p>	<p>FIGURE D</p>
<p>DATE: 09/06</p>	<p>PROJECT NO.: 95183/95184</p>	<p>BY: TA</p>	

APALACHEE SEDIMENT REDUCTION EFFICIENCY - PHASE 3											
Problem	Slope	LS	Length	Factor	Soil Loss	Proposed Treatment	Trt Eff	Soil Red			
									LF	ln/yr	CF
Cut slope	Koyukon Dr @ Nadowa	10.1	0.10	2	0.20	92	0.000275	0.01	Revegetate	0.70	0.01
Cut slope	Koyukon Dr @ Kulow St	4.1	0.25	17	1.91	316	0.000275	2.81	Revegetate	0.70	1.97
Cut slope	Koyukon Dr @ House #1912	3.1	0.33	10	2.09	181	0.000275	1.04	Revegetate	0.70	0.73
Cut slope	Carnarsee St @ Koyukon St	7.1	0.14	13	0.78	240	0.000275	0.67	Revegetate	0.70	0.47
Cut slope	Carnarsee St @ Hunkappa St	6.1	0.17	12	0.93	317	0.000275	0.95	Revegetate	0.70	0.47
Cut slope	Carnarsee St @ Minniconjou St	3.1	0.33	4	1.34	460	0.000275	0.68	Revegetate	0.70	1.82
Cut slope	Carnarsee St @ Minniconjou St North	2.1	0.50	14	3.87	181	0.000275	2.60	Revegetate	0.70	0.28
Cut slope	Nadowa St	5.1	0.20	14	1.28	85	0.000275	0.40	Revegetate	0.70	0.03
Cut slope	Nadowa St @ Tooch St NW	10.1	0.10	9	0.40	48	0.000275	0.05	Revegetate	0.70	0.32
Cut slope	Nadowa St @ Tooch St SW	3.1	0.33	12	2.28	60	0.000275	0.45	Revegetate	0.70	0.19
Cut slope	Nadowa St @ Tooch St SE	3.1	0.33	11	2.15	42	0.000275	0.26	Revegetate	0.70	0.81
Cut slope	Tooch St	2.1	0.50	13	3.76	88	0.000275	1.16	Revegetate	0.70	2.04
Cut slope	Brule St @ Kulow W Side	4.1	0.25	8	1.29	1061	0.000275	2.91	Revegetate	0.70	0.31
Cut slope	Brule St @ Kulow E Side	3.1	0.33	6	1.66	157	0.000275	0.45	Revegetate	0.70	0.32
Cut slope	Hunkappa St @ Kulow W Side	2.1	0.50	8	2.88	76	0.000275	0.45	Revegetate	0.70	0.41
Cut slope	Hunkappa St W Side	3.1	0.33	12	2.35	73	0.000275	0.59	Revegetate	0.70	0.12
Cut slope	Hunkappa St E Side	10.1	0.10	8	0.38	199	0.000275	0.72	Revegetate	0.70	0.50
Cut slope	Huph St @ Hunkappa St	2.1	0.50	8	2.98	109	0.000275	0.39	Revegetate	0.70	0.28
Cut slope	Huph St	3.1	0.33	10	2.07	72	0.000275	0.59	Revegetate	0.70	0.41
Cut slope	Huph St @ Minniconjou N	2.1	0.50	7	2.83	105	0.000275	1.09	Revegetate	0.70	0.76
Cut slope	Huph St @ Minniconjou S	3.1	0.33	10	2.03	205	0.000275	0.98	Revegetate	0.70	0.88
Cut slope	Minniconjou St South of Huph	3.1	0.33	9	1.97	207	0.000275	3.99	Revegetate	0.70	2.79
Cut slope	Minniconjou St @ Watson St	2.1	0.50	11	3.56	357	0.000275	0.80	Revegetate	0.70	0.42
Cut slope	Minniconjou St East side #1876	3.1	0.33	12	2.26	84	0.000275	1.15	Revegetate	0.70	0.80
Cut slope	Minniconjou St @ House #1910	2.1	0.50	9	3.18	144	0.000275	1.16	Revegetate	0.70	0.81
Cut slope	Minniconjou St @ House #1924	2.1	0.50	9	3.21	141	0.000275	0.61	Revegetate	0.70	0.43
Cut slope	Minniconjou St East side #1928	3.1	0.33	9	1.93	133	0.000275	0.43	Revegetate	0.70	0.30
Cut slope	Minniconjou St @ Kulow st	3.1	0.33	10	2.08	67	0.000275	0.38	Revegetate	0.70	0.27
Cut slope	Minniconjou St south of Kulow St	3.1	0.33	10	2.08	67	0.000275	2.04	Revegetate	0.70	1.42
Cut slope	Susquehanna Dr N Side	3.1	0.33	16	2.66	171	0.000275	0.23	Revegetate	0.70	0.16
Cut slope	Susquehanna Dr S Side	10.1	0.10	12	0.47	154	0.000275	0.87	Revegetate	0.70	0.61
Cut slope	Susquehanna Dr @ Minniconjou St	3.1	0.33	13	2.40	100	0.000275	2.92	Revegetate	0.70	2.05
Cut slope	Susquehanna Dr Across Minniconjou st	3.1	0.33	14	2.45	314	0.000275	1.49	Revegetate	0.70	1.05
Cut slope	Jcanilla Dr @ Pioneer Tr	3.1	0.33	12	2.30	194	0.000275	4.57	Revegetate	0.70	3.20
Cut slope	Jcanilla Dr @ house #1814	2.1	0.50	13	3.78	342	0.000275	7.44	Revegetate	0.70	5.21
Cut slope	Jcanilla Dr West side	2.1	0.50	14	3.87	515	0.000275	1.12	Revegetate	0.70	0.79
Cut slope	Susquehanna Dr @ House 1859	2.1	0.50	7	2.73	223	0.000275	2.88	Revegetate	0.70	2.01
Cut slope	Ibache st	2.1	0.50	12	3.83	242	0.000275	0.59	Revegetate	0.70	0.41
Cut slope	Ibache st @ Aravaipa St	5.1	0.20	10	1.11	191	0.000275	0.99	Revegetate	0.70	0.69
Cut slope	Guadalupe St	3.1	0.33	9	1.98	202	0.000275	0.21	Revegetate	0.70	0.14
Cut slope	Koyukon Drain Inlet	11.1	0.09	12	0.41	154	0.000275	2.50	Revegetate	0.70	1.75
Cut slope	Brule @ Watson	2.5.1	0.40	9	2.48	407	0.000275	0.11	Revegetate	0.70	0.08
Cut slope	Hunkappa	10.1	0.10	10	0.43	91	0.000275	0.23	Revegetate	0.70	0.16
Cut slope	Watson @ Minniconjou	10.1	0.10	11	0.45	166	0.000275	41.95	Curb and Gutter	1.00	41.95
Type B channel >6%	Koyukon Dr @ from Nadowa St to Watson St					874	0.048000	1.16	Curb and Gutter	1.00	1.16
Type A channel <6%	Koyukon @ Watson					145	0.008000	0.88	Curb and Gutter	1.00	0.88
Type A channel <6%	Koyukon @ Panka					110	0.008000	2.08	Curb and Gutter	1.00	2.08
Type A channel <6%	Brule @ Carnarsee St					260	0.008000	4.48	Curb and Gutter	1.00	4.48
Type A channel <6%	Brule St					279	0.016000	8.80	Curb and Gutter	1.00	8.80
Type A channel <6%	Brule St from Kulow to Watson					560	0.016000	4.06	Curb and Gutter	1.00	4.06
Type A channel <6%	Brule St from Kulow to Watson					508	0.008000	0.70	Curb and Gutter	1.00	0.70
Type A channel <6%	Brule St @ Watson					88	0.008000	0.93	Curb and Gutter	1.00	0.93
Type A channel <6%	Hunkappa St @ Watson					116	0.008000	1.01	Curb and Gutter	1.00	1.01
Type A channel <6%	Koyukon Dr @ Watson					126	0.008000	1.01	Curb and Gutter	1.00	7.14
Type A channel <6%	Watson St from Brule to Hunkappa					446	0.016000	7.14	Curb and Gutter	1.00	4.74
Type A channel <6%	Watson St @ Hunkappa					296	0.016000	4.74	Curb and Gutter	1.00	7.17
Type A channel <6%	Hunkappa from 1824 To 1830					896	0.008000	7.17	Curb and Gutter	1.00	3.54
Type A channel <6%	Hunkappa @ Huph St					221	0.016000	3.54	Curb and Gutter	1.00	4.38
Type A channel <6%	Minniconjou St @ Kulow					548	0.008000	4.38	Curb and Gutter	1.00	1.07
Type A channel <6%	Minniconjou St @ Watson					134	0.008000	1.07	Curb and Gutter	1.00	15.55
Type B channel >6%	Minniconjou St @ Carnarsee St					324	0.048000	15.55	Curb and Gutter	1.00	1.82
Type A channel >6%	Minniconjou St @ Huph North Side					114	0.016000	1.82	Curb and Gutter	1.00	5.66
Type A channel >6%	Minniconjou St @ Huph South Side					354	0.016000	5.66	Curb and Gutter	1.00	3.89
Type A channel <6%	Kulow St					486	0.008000	3.89	Curb and Gutter	1.00	5.28
Type A channel <6%	Kulow St					330	0.016000	5.28	Curb and Gutter	1.00	59.33
Type B channel >6%	Susquehanna Dr					1,236	0.048000	59.33	Curb and Gutter	1.00	10.54
Type A channel >6%	Pioneer Tr					659	0.016000	10.54	Curb and Gutter	1.00	1.80
Type A channel <6%	Jcanilla Dr					225	0.008000	1.80	Curb and Gutter	1.00	5.26
Type A channel <6%	Jcanilla Dr @ House # 1883					657	0.008000	5.26	Revegetate	0.70	8.94
Type C channel >6%	Jcanilla Draining Easement @ House # 1883					133	0.096000	12.77	Revegetate	0.70	10.15
Type A channel >6%	Jcanilla Draining Easement @ House # 1870					151	0.096000	14.50	Asphalt Swallow	1.00	6.22
Type A channel >6%	Jcanilla @ Pioneer to Low Pt					389	0.016000	6.22	Curb and Gutter	1.00	6.69
Type A channel >6%	Jcanilla @ House #1870					418	0.016000	6.69	Revegetate	0.70	1.81
Type B channel >6%	Jcanilla Draining Easement @ House # 1877					54	0.048000	2.59	Revegetate	0.70	0.74
Type A channel <6%	Susquehanna Dr @ Aravaipa St South side					132	0.008000	1.06	Revegetate	0.70	1.42
Type A channel <6%	Susquehanna Dr @ Aravaipa St North side					253	0.008000	2.02	Revegetation and maiting	0.80	3.42
Type A channel <6%	Susquehanna Dr @ end					534	0.008000	4.27	Revegetate	0.70	2.34
Type A channel <6%	Aravaipa St @ Ibache St					417	0.008000	3.34	Revegetate	0.70	0.86
Type A channel <6%	Ibache Drain Easement @ House #1848					77	0.016000	1.23	Curb and Gutter	1.00	1.42
Type A channel <6%	Panka St					177	0.008000	1.42	Revegetate	0.70	0.85
Type A channel <6%	Carnarsee St					151	0.008000	1.21	Curb and Gutter	1.00	8.39
Type A channel <6%	Carnarsee St					1,049	0.008000	8.39	Curb and Gutter	1.00	2.08
Type A channel <6%	Brule St					260	0.008000	2.08	Revegetate	0.70	0.54
Type A channel <6%	Minniconjou St					96	0.008000	0.77	Curb and Gutter	1.00	1.61
Type A channel <6%	Tooch St					201	0.008000	1.51	Revegetate	0.70	0.81
Type A channel <6%	Jcanilla Dr					144	0.008000	1.15	Revegetate	0.70	0.62
Type A channel <6%	Susquehanna Dr					110	0.008000	0.68	Revegetate	0.70	301.24

Proposed Treatment	Volume CF	Trt Eff	Soil Red CF/yr	Soil Red tn/yr
Drainage Inlet & Sediment Trap	16369	0.15	80	98.21
Sediment Basins & Infiltration galleries	13911	0.01	80	5.56
Total Sanding		4.80		
Total Project Sediment		336		405

Total Efficiency 23,672,050 tn/20 years
 Total State \$ 3,306,300
 $405 \text{ tn/yr} (1 - (0.91 \times 0.5)) (20 \text{ yrs}) (2,000 \text{ lbs/tn}) = \$3,306,300$
 7.13 lbs/s

Increased efficiency - 91% of runoff through SEZ w/ 50% efficiency
 Total Efficiency:

EL DORADO COUNTY
 SOUTH LAKE TAHOE OFFICE



2006 CTC SITE IMPROVEMENT GRANT
 AUGMENTATION FINAL APPLICATION
 APALACHEE EROSION CONTROL PROJECT
 Sediment Reduction Efficiency

FIGURE

E

DATE: 11/06 Project No.: 95183/95184 BY: DP

APALACHEE PHASE 3A

ITEM NO.	DESCRIPTION	QUAN	UNIT	UNIT PRICE	TOTAL
BASE BID SCHEDULE A					
1	Mobilization	1	LS	\$75,000	\$75,000
2	Traffic Control	1	LS	\$65,000	\$65,000
3	Sweeping	1	LS	\$50,000	\$50,000
4	Sweeping	7	EA	\$650	\$4,550
5	Adjust SMH Rim to Grade	1	EA	\$650	\$650
6	Adjust SCO to Grade	11	EA	\$2,500	\$27,500
7	Concrete Encasement	64	CY	\$160	\$10,240
8	Humus and Humus Application	35	CY	\$125	\$4,375
9	Humus for Topsoil Mix	1	LS	\$2,000	\$2,000
10	Mobilization/Demobilization for Mulch Blowing	1	LS	\$2,000	\$2,000
11	Mobilization/Demobilization for Tackifier Application	88	CY	\$245	\$21,560
12	Mulch and Mulch Application	28,410	SF	\$0.35	\$9,944
13	Tackifier and Tackifier Application	6	EA	\$500	\$3,000
14	Roadside Sign Removal and Relocation	8	EA	\$720	\$5,760
15	Tree Removal	30	LF	\$60	\$1,800
16	12" HDPE Pipe (Out of Pavement)	1,351	LF	\$79	\$106,729
17	18" HDPE Pipe (In Pavement)	208	LF	\$65	\$13,520
18	18" HDPE Pipe (Out of Pavement)	19	LF	\$90	\$1,710
19	24" HDPE Pipe (In Pavement)	23	LF	\$75	\$1,725
20	24" HDPE Pipe (Out of Pavement)	105	LF	\$105	\$11,025
21	21" X 15" Arch CMP (In Pavement)	35	LF	\$90	\$3,150
22	21" X 15" Arch CMP (Out of Pavement)	45	LF	\$250	\$11,250
23	49" X 33" Arch CMP (In Pavement)	1	EA	\$3,500	\$3,500
24	Dewatering for 18" Pipe Installation	1	LS	\$9,000	\$9,000
25	Dewatering for Minniconjou Culvert and Concrete Headwall	1	EA	\$1,800	\$1,800
26	Diversion for Minniconjou Culvert and Concrete Headwall	3	EA	\$3,600	\$10,800
27	36" SDMH w/ Concentric Cone	4	EA	\$3,900	\$15,600
28	48" SDMH w/ Eccentric Cone	4	EA	\$3,900	\$15,600
29	48" Flat Top SDMH	2	EA	\$3,500	\$7,000
30	Dewatering for Sediment Traps and Drainage Inlets	5	EA	\$5,000	\$25,000
31	36" Sediment Trap	1	EA	\$6,500	\$6,500
32	48" Sediment Trap	1	EA	\$8,000	\$8,000
33	Baffled Sediment Trap				

EL DORADO COUNTY
SOUTH LAKE TAHOE OFFICE



2006 CTC SITE IMPROVEMENT GRANT
AUGMENTATION FINAL APPLICATION
APALACHEE EROSION CONTROL PROJECT
Phase 3A Engineers Estimate

FIGURE

F-1

DATE: 11/06

Project No.: 95183/95184

BY: DP

APALACHEE PHASE 3A

ITEM NO.	DESCRIPTION	QUAN	UNIT	UNIT PRICE	TOTAL
33	36" Double Sediment Trap	1	EA	\$10,000	\$10,000
34	48" Double Sediment Trap	2	EA	\$13,000	\$26,000
35	Triple Sediment Trap	1	EA	\$15,000	\$15,000
36	Drainage Inlet	16	EA	\$3,500	\$56,000
37	18" FES	5	EA	\$1,350	\$6,750
38	18" FES	1	EA	\$1,500	\$1,500
39	24" FES	1	EA	\$2,400	\$2,400
40	49" X 33" FES	1	EA	\$10,800	\$10,800
41	Concrete Headwall for Arch Pipe	2	EA	\$7,200	\$14,400
42	Concrete Headwall	386	LF	\$21	\$8,106
43	Remove Existing CMP	1	EA	\$180	\$180
44	Remove Existing Curb Opening	680	SF	\$10	\$6,800
45	Rock Dissipator	209	SF	\$12	\$2,508
46	No. 1 Rock Backing	75	SF	\$15	\$1,125
47	Grouted Rock Bowl	1	LS	\$30,000	\$30,000
48	Kulow Channel	3	EA	\$180	\$540
49	Willow Clump Salvaging & Transplanting				
50	Grass-Lined Swale W=VARIES 6.00' TO 2.00', X=2.00', H=VARIES 1.00' TO 0.00'	48	LF	\$60	\$2,880
51	Grass-Lined Swale W=VARIES 6.50' TO 16.00', X=VARIES 2.50' TO 4.00', H=2.00'	296	LF	\$66	\$19,536
52	Grass-Lined Swale W=VARIES 2.50' TO 1.50', X=1.50', H=0.50' Minimum	8	LF	\$18	\$144
53	Infiltration Trench	97	LF	\$30	\$2,910
54	AC Swale	12	LF	\$36	\$432
55	Curb and Gutter with Tie-in Pavement	5,995	LF	\$85	\$509,575
56	Curb End Transition Type 1	12	EA	\$1,000	\$12,000
57	Driveway R&R	5,518	SF	\$10	\$55,180
58	Shoring, Bracing or Sloping the Sides of Trenches Greater than Five Feet Deep	1	LS	\$30,000	\$30,000
59	Misc Paving	1,671	SF	\$10	\$16,710
60	Install & Maintain Fabric-Wrapped Rice Bale Sediment Barrier or Gravel Bags	83	EA	\$30	\$2,490
61	Install & Maintain Type 2 Filter Fence	996	LF	\$10	\$9,960
62	Install & Maintain Type 3 Filter Fence	60	LF	\$12	\$720
63	Install & Maintain Tree Protection & Construction Limit Fence	719	LF	\$9	\$6,471
64	Install & Maintain Tire Wash Area (On Pavement)	1	EA	\$5,000	\$5,000
65	Install & Maintain Concrete Wash Area	1	EA	\$3,000	\$3,000
TOTAL FOR BASE BID SCHEDULE A					\$1,404,405

EL DORADO COUNTY
SOUTH LAKE TAHOE OFFICE



2006 CTC SITE IMPROVEMENT GRANT
AUGMENTATION FINAL APPLICATION
APALACHEE EROSION CONTROL PROJECT
Phase 3A Engineers Estimate

FIGURE

F-2

DATE: 11/06

Project No.: 95183/95184

BY: DP

APALACHEE PHASE 3A

ITEM NO.	DESCRIPTION	QUAN	UNIT	UNIT PRICE	TOTAL
ADDITIVE ALTERNATE BID SCHEDULE B					
65	Mobilization Specific to Additive Alternate Bid - Schedule B	1	LS	\$50,000	\$50,000
66	Traffic Control Specific to Additive Alternate Bid - Schedule B	1	LS	\$35,000	\$35,000
67	Sweeping Specific to Additive Alternate Bid - Schedule B	1	LS	\$20,000	\$20,000
68	Adjust SMH Rim to Grade	1	EA	\$650	\$650
69	Adjust SCO to Grade	2	EA	\$650	\$1,300
70	Adjust Water Valve to Grade	5	EA	\$400	\$2,000
71	Concrete Encasement	1	EA	\$2,500	\$2,500
72	Humus and Humus Application	58	CY	\$155	\$8,990
73	Humus for Topsoil Mix	79	CY	\$125	\$9,875
74	Mobilization/Demobilization for Mulch Blowing	1	LS	\$2,000	\$2,000
75	Mobilization/Demobilization for Tackifier Application	1	LS	\$2,000	\$2,000
76	Mulch and Mulch Application	92	CY	\$235	\$21,620
77	Tackifier and Tackifier Application	18,516	SF	\$0.35	\$6,481
78	Peelercore Fence	98	LF	\$38	\$3,763
79	18" HDPE Pipe (In Pavement)	587	LF	\$79	\$46,373
80	18" HDPE Pipe (Out of Pavement)	431	LF	\$65	\$28,015
81	21" X 15" Arch CMP (In Pavement)	20	LF	\$105	\$2,100
82	21" X 15" Arch CMP (Out of Pavement)	10	LF	\$90	\$900
83	36" SDMH w/ Concentric Cone	4	EA	\$3,600	\$14,400
84	48" Flat Top SDMH	1	EA	\$3,900	\$3,900
85	36" Sediment Trap	3	EA	\$5,000	\$15,000
86	48" Sediment Trap	3	EA	\$6,500	\$19,500
87	Baffled Sediment Trap	1	EA	\$9,600	\$9,600
88	48" Double Sediment Trap	1	EA	\$13,000	\$13,000

EL DORADO COUNTY
SOUTH LAKE TAHOE OFFICE



2006 CTC SITE IMPROVEMENT GRANT
AUGMENTATION FINAL APPLICATION
APALACHEE EROSION CONTROL PROJECT
Phase 3A Engineers Estimate

FIGURE

F-3

DATE: 11/06

Project No.: 95183/95184

BY: DP

APALACHEE PHASE 3A

ITEM NO.	DESCRIPTION	QUAN	UNIT	UNIT PRICE	TOTAL
89	Drainage Inlet	8	EA	\$3,500	\$28,000
90	18" FES	3	EA	\$1,350	\$4,050
91	Remove Existing CMP	176	LF	\$21	\$3,696
92	Rock Dissipator	230	SF	\$10	\$2,300
93	No. 1 Rock Backing	75	SF	\$12	\$900
94	Rock-Lined Channel	21	LF	\$39	\$819
95	Grass-Lined Swale W=VARIES 13.00' TO 2.00', X=2.00', H=Varies 3.00' to 0.00'	48	LF	\$24	\$1,152
96	Stormwater Retention Chambers at Koyukon	1	LS	\$24,000	\$24,000
97	Stormwater Retention Chambers at Minniconjou	1	LS	\$12,000	\$12,000
98	AC Pavement Removal (F)	985	SF	\$2	\$1,478
99	AC Swale	11	LF	\$36	\$396
100	Curb and Gutter with Tie-in Pavement	3,192	LF	\$85	\$271,320
101	Curb End Transition Type 1	6	EA	\$1,000	\$6,000
102	Curb Opening	1	EA	\$1,500	\$1,500
103	Driveway R&R	3,334	SF	\$10	\$33,340
104	Shoring, Bracing or Sloping the Sides of Trenches Greater than Five Feet Deep	1	LS	\$20,000	\$20,000
105	Misc Paving	7,569	SF	\$10	\$75,690
106	Porous Pavement	1,335	SF	\$12	\$16,020
107	Install & Maintain Fabric-Wrapped Rice Bale Sediment Barrier or Gravel Bags	38	EA	\$30	\$1,140
108	Install & Maintain Type 2 Filter Fence	500	LF	\$10	\$5,000
109	Install & Maintain Tree Protection & Construction Limit Fence	52	LF	\$9	\$468
110	Install & Maintain Tire Wash Area (On Pavement)	1	EA	\$5,000	\$5,000
111	Install & Maintain Concrete Wash Area	1	EA	\$3,000	\$3,000
TOTAL FOR ADDITIVE ALTERNATE BID SCHEDULE B					\$836,235

PHASE 3A TOTAL BID SCHEDULES A AND B \$2,240,640

EL DORADO COUNTY
SOUTH LAKE TAHOE OFFICE



**2006 CTC SITE IMPROVEMENT GRANT
AUGMENTATION FINAL APPLICATION
APALACHEE EROSION CONTROL PROJECT
Phase 3A Engineers Estimate**

FIGURE

F-4

DATE:

11/06

Project No.:

95183/95184

BY:

DP

APALACHEE PHASE 3B

ITEM NO.	DESCRIPTION	QUAN	UNIT	UNIT PRICE	TOTAL
BASE BID SCHEDULE A					
1	Mobilization	1	LS	\$75,000	\$35,000
2	Traffic Control	1	LS	\$65,000	\$30,000
3	Sweeping	1	LS	\$50,000	\$25,000
4	Adjust SMH Rim to Grade	3	EA	\$650	\$1,950
5	Adjust SCO to Grade	2	EA	\$650	\$1,300
6	Concrete Encasement	2	EA	\$2,500	\$5,000
7	Humus and Humus Application	40	CY	\$160	\$6,400
8	Humus for Topsoil Mix	30	CY	\$125	\$3,750
9	Mobilization/Demobilization for Mulch Blowing	1	LS	\$2,000	\$2,000
10	Mobilization/Demobilization for Tackifier Application	1	LS	\$2,000	\$2,000
11	Mulch and Mulch Application	80	CY	\$245	\$19,600
12	Tackifier and Tackifier Application	25,000	SF	\$0.35	\$8,750
13	Roadside Sign Removal and Relocation	2	EA	\$500	\$1,000
14	Tree Removal	3	EA	\$720	\$2,160
15	18" HDPE Pipe (In Pavement)	535	LF	\$79	\$42,265
16	18" HDPE Pipe (Out of Pavement)	187	LF	\$65	\$12,155
17	24" HDPE Pipe (In Pavement)	90	LF	\$90	\$8,100
18	24" HDPE Pipe (Out of Pavement)	30	LF	\$75	\$2,250
19	49" X 33" Arch CMP (In Pavement)	45	LF	\$250	\$11,250
20	Dewatering for 24" Pipe Installation		EA	\$3,500	
21	Dewatering for Susquehana Culvert and Concrete Headwall	1	LS	\$9,000	\$9,000
22	36" SDMH w/ Concentric Cone	2	EA	\$3,600	\$7,200
23	48" Flat Top SDMH	1	EA	\$3,900	\$3,900
24	Dewatering for Sediment Traps and Drainage Inlets	2	EA	\$3,500	\$7,000
25	36" Sediment Trap	13	EA	\$5,000	\$65,000
26	48" Sediment Trap	1	EA	\$6,500	\$6,500
27	Rock Barrier	3	EA	\$500	\$1,500

EL DORADO COUNTY
SOUTH LAKE TAHOE OFFICE



2006 CTC SITE IMPROVEMENT GRANT
AUGMENTATION FINAL APPLICATION
APALACHEE EROSION CONTROL PROJECT
Phase 3B Engineers Estimate

FIGURE

F-5

DATE: 11/06

Project No.: 95183/95184

BY: DP

APALACHEE PHASE 3B

ITEM NO.	DESCRIPTION	QUAN	UNIT	UNIT PRICE	TOTAL
28	48" Double Sediment Trap	3	EA	\$13,000	\$39,000
29	Drainage Inlet	6	EA	\$3,500	\$21,000
30	18" FES	8	EA	\$1,350	\$10,800
31	24" FES	1	EA	\$1,500	\$1,500
32	49" X 33" FES	1	EA	\$2,400	\$2,400
33	Concrete Headwall for Arch Pipe	1	EA	\$10,800	\$10,800
34	Concrete Headwall	2	EA	\$7,200	\$14,400
35	Remove Existing CMP	257	LF	\$21	\$5,397
36	Rock Lined Channel	140	LF	\$40	\$5,600
37	Rock Dissipator	9	SF	\$10	\$90
38	No. 1 Rock Backing	400	SF	\$12	\$4,800
39	Log Fence		LF	\$39	
40	Grass-Lined Swale W=VARIES 6.00' TO 2.00', X=2.00', H=VAR	248	LF	\$60	\$14,880
41	Stormwater Chambers	25	EA	\$1,200	\$30,000
42	Curb Opening	2	EA	\$1,500	\$3,000
43	Biolog	100	LF	\$10	\$1,000
44	Curb and Gutter with Tie-in Pavement	1,874	LF	\$85	\$159,290
45	Curb End Transition Type 1	8	EA	\$1,000	\$8,000
46	Driveway R&R	640	SF	\$10	\$6,400
47	Shoring, Bracing or Sloping the Sides of Trenches Greater than	1	LS	\$30,000	\$30,000
48	Misc Paving	1,554	SF	\$10	\$15,540
49	Install & Maintain Fabric-Wrapped Rice Bale Sediment Barrier or Gravel Bags	40	EA	\$30	\$1,200
50	Install & Maintain Type 2 Filter Fence	1,000	LF	\$10	\$10,000
51	Install & Maintain Type 3 Filter Fence	200	LF	\$12	\$2,400
52	Install & Maintain Tree Protection & Construction Limit Fence	1,500	LF	\$9	\$13,500
53	Install & Maintain Tire Wash Area (On Pavement)	1	EA	\$5,000	\$5,000
54	Install & Maintain Concrete Wash Area	1	EA	\$3,000	\$3,000
TOTAL FOR BASE BID SCHEDULE A					\$739,027

EL DORADO COUNTY
SOUTH LAKE TAHOE OFFICE



2006 CTC SITE IMPROVEMENT GRANT
AUGMENTATION FINAL APPLICATION
APALACHEE EROSION CONTROL PROJECT
Phase 3B Engineers Estimate

FIGURE

F-6

DATE:

11/06

Project No.:

95183/95184

BY:

DP

APALACHEE PHASE 3B

ITEM NO.	DESCRIPTION	QUAN	UNIT	UNIT PRICE	TOTAL
BASE BID SCHEDULE B					
55	Mobilization Specific to Additive Alternate Bid - Schedule B	1	LS	\$75,000	\$35,000
56	Traffic Control Specific to Additive Alternate Bid - Schedule B	1	LS	\$65,000	\$30,000
57	Sweeping Specific to Additive Alternate Bid - Schedule B	1	LS	\$50,000	\$25,000
58	Adjust SMH Rim to Grade	2	EA	\$650	\$1,300
59	Adjust SCO to Grade	2	EA	\$650	\$1,300
60	Concrete Encasement	3	EA	\$2,500	\$7,500
61	Humus and Humus Application	40	CY	\$160	\$6,400
62	Humus for Topsoil Mix	30	CY	\$125	\$3,750
63	Mobilization/Demobilization for Mulch Blowing	1	LS	\$2,000	\$2,000
64	Mobilization/Demobilization for Tackifier Application	1	LS	\$2,000	\$2,000
65	Mulch and Mulch Application	80	CY	\$245	\$19,600
66	Tackifier and Tackifier Application	25,000	SF	\$0.35	\$8,750
67	Tree Removal	2	EA	\$500	\$1,000
68	Roadside Sign Removal and Relocation	2	EA	\$720	\$1,440
69	Tree Removal	1,104	LF	\$79	\$87,216
70	18" HDPE Pipe (In Pavement)	31	LF	\$65	\$2,015
71	18" HDPE Pipe (Out of Pavement)	60	LF	\$90	\$5,400
72	24" HDPE Pipe (In Pavement)		LF	\$75	
73	24" HDPE Pipe (Out of Pavement)		LF	\$250	
74	49" X 33" Arch CMP (In Pavement)	1	EA	\$3,500	\$3,500
75	Dewatering for 24" Pipe Installation		LS	\$9,000	
76	Dewatering for Susquehana Culvert and Concrete Headwall	2	EA	\$3,600	\$7,200
77	36" SDMH w/ Concentric Cone	1	EA	\$3,900	\$3,900
78	48" Flat Top SDMH	8	EA	\$3,500	\$28,000
79	Dewatering for Sediment Traps and Drainage Inlets	12	EA	\$5,000	\$60,000
80	36" Sediment Trap	5	EA	\$6,500	\$32,500
81	48" Sediment Trap		EA	\$500	
81	Rock Barrier				

EL DORADO COUNTY
SOUTH LAKE TAHOE OFFICE



2006 CTC SITE IMPROVEMENT GRANT
AUGMENTATION FINAL APPLICATION
APALACHEE EROSION CONTROL PROJECT
Phase 3B Engineers Estimate

FIGURE

F-7

DATE:

11/06

Project No.:

95183/95184

BY:

DP

APALACHEE PHASE 3B

ITEM NO.	DESCRIPTION	QUAN	UNIT	UNIT PRICE	TOTAL
82	48" Double Sediment Trap		EA	\$13,000	
83	Drainage Inlet	6	EA	\$3,500	\$21,000
84	18" FES	11	EA	\$1,350	\$14,850
85	24" FES		EA	\$1,500	
86	49" X 33" FES		EA	\$2,400	
87	Concrete Headwall for Arch Pipe		EA	\$10,800	
88	Concrete Headwall		EA	\$7,200	
89	Remove Existing CMP	34	LF	\$21	\$714
90	Rock Lined Channel		LF	\$40	
91	Rock Dissipator	12	SF	\$10	\$120
92	No. 1 Rock Backing	350	SF	\$12	\$4,200
93	Log Fence	120	LF	\$39	\$4,680
94	Grass-Lined Swale W=VARIES 6.00' TO 2.00', X=2.00', H=VARIES 1.00' TO 0.00'	55	LF	\$60	\$3,300
95	Stormwater Chambers	4	EA	\$1,200	\$4,800
96	Curb Opening	1	EA	\$1,500	\$1,500
97	Curb Opening	260	LF	\$10	\$2,600
97	Biolog		LF	\$85	
98	Curb and Gutter with Tie-in Pavement	2,986	LF	\$85	\$253,810
99	Curb End Transition Type 1	3	EA	\$1,000	\$3,000
100	Driveway R&R	430	SF	\$10	\$4,300
101	Shoring, Bracing or Sloping the Sides of Trenches Greater than Five Feet Deep	1	LS	\$30,000	\$30,000
102	Misc Paving		SF	\$10	
103	Install & Maintain Fabric-Wrapped Rice Bale Sediment Barrier or Gravel Bags	40	EA	\$30	\$1,200
104	Install & Maintain Type 2 Filter Fence	1,000	LF	\$10	\$10,000
105	Install & Maintain Type 3 Filter Fence	200	LF	\$12	\$2,400
106	Install & Maintain Tree Protection & Construction Limit Fence	1,500	LF	\$9	\$13,500
107	Install & Maintain Tire Wash Area (On Pavement)	1	EA	\$5,000	\$5,000
108	Install & Maintain Concrete Wash Area	1	EA	\$3,000	\$3,000
PHASE 3B TOTAL FOR ADDITIVE ALTERNATE BID SCHEDULE B					\$758,745
PHASE 3B TOTAL BID SCHEDULES A AND B					\$1,497,772

ENGINEERS ESTIMATE SUMMARY

	PHASE 3A TOTAL BID SCHEDULES A AND B	\$2,240,640
	PHASE 3B TOTAL BID SCHEDULES A AND B	\$1,497,772
	PHASE 3 TOTAL	\$3,738,412

<p>EL DORADO COUNTY SOUTH LAKE TAHOE OFFICE</p>	<p>2006 CTC SITE IMPROVEMENT GRANT AUGMENTATION FINAL APPLICATION APALACHEE EROSION CONTROL PROJECT Phase 3B Engineers Estimate</p>		<p>FIGURE</p> <p style="font-size: 2em;">F-8</p>
	DATE: 11/06	Project No.: 95183/95184	BY: DP

SITE IMPROVEMENT BUDGET SUMMARY PHASE 3

EXPENDITURES	FY 00-01	FY 01-02	FY 02-03	FY 03-04	FY 04-05	FY 05-06	FY 06-07	FY 07-08	FY 08-09	TOTAL
TASK DESCRIPTION							1,377,441.00	864,905.00	1,496,066.00	3,738,412.00
Construction						3,626.00	384,963.00		325,431.00	714,020.00
Construction & Inspection				10,112.00	175,000.00	597,046.00	147,509.00	163,298.00		1,132,965.00
Design & Administration	40,000.00							34,500.00	53,500.00	88,000.00
Plant Establishment				4,496.00	5,000.00	7,000.00	2,372.00	2,372.00	11,260.00	32,500.00
Monitoring						41,287.00	230,302.00	104,143.00	228,536.00	604,268.00
Contingency	40,000.00			14,608.00	180,000.00	648,959.00	2,142,587.00	1,169,218.00	2,114,793.00	6,310,165.00

REVENUE SOURCE	USFS 01	CTC 00	CTC 02	CTC 03	CTC 06	USFS 04	USFS 05	USFS 06	BOR 06-07	TOTAL
TASK DESCRIPTION		CTA 99022		CTA 02007				PROPOSED		
Construction				924,293.00	1,500,000.00		257,990.00	906,129.00	150,000.00	3,738,412.00
Construction & Inspection							398,000.00	316,020.00		714,020.00
Design & Administration		40,000.00		689,466.00		108,796.00	244,703.00		50,000.00	1,132,965.00
Plant Establishment				10,000.00				22,500.00		32,500.00
Monitoring				142,541.00			279,640.00	182,087.00		604,268.00
Contingency		40,000.00		1,766,300.00	1,500,000.00	108,796.00	1,180,333.00	1,514,736.00	200,000.00	6,310,165.00

Note: This budget summary does not include any right-of-way revenues or expenditures.

EL DORADO COUNTY
SOUTH LAKE TAHOE OFFICE



**2006 CTC SITE IMPROVEMENT GRANT
AUGMENTATION FINAL APPLICATION
APALACHEE EROSION CONTROL PROJECT
Phase 3 Budget**

FIGURE

G

DATE: 11/06

Project No.: 95183/95184

BY: DP

**APALACHEE 3 EROSION CONTROL PROJECTS
 PROPOSED REVISED LIST OF CTC PARCELS
 TO BE USED FOR CONSTRUCTION OF SITE IMPROVEMENTS**

		APN	PROPOSED IMPROVEMENTS
Phase 3	1	33-873-04	Infiltration Basin, Vegetated Swale
	2	33-873-22	Infiltration Basin, Culvert, Sediment Trap
	3	33-873-27	Sediment Trap, Rock-lined Channel, Infiltration Basin
	4	33-873-32	Sediment Trap, Culvert, Infiltration Basin
	5	33-884-12	Biospreaders, Vegetated Swale
	6	80-071-25	Sediment Trap, Vegetated Swale, Infiltration Basin
	7	80-092-14	Sediment Trap, Vegetated Swale, Infiltration Basin
	8	33-884-13	Biospreaders, Vegetated Swale

EL DORADO COUNTY
 SOUTH LAKE TAHOE OFFICE



2006 CTC SITE IMPROVEMENT GRANT
 AUGMENTATION FINAL APPLICATION
 APALACHEE EROSION CONTROL PROJECT
 CTC Parcels & Improvements

FIGURE

H

DATE: 11/06

Project No.: 95183/95184

BY: DP

CTC
33-884-13

SCALE: 1"=20'

BIOSPREADERS, VEGETATED SWALE

JICARILLA DR

S:\SDSKA\proj95184\dwg\Grants\2006\APA3_ctc_parcel_1.dwg, 11/6/2006 11:45:32 AM

EL DORADO COUNTY
SOUTH LAKE TAHOE OFFICE



2006 CTC SITE IMPROVEMENT GRANT
AUGMENTATION FINAL APPLICATION
APALACHEE EROSION CONTROL PROJECT
Additional CTC Parcel

FIGURE

I

DATE: 09/06


PROJECT NO.: 95183/95184

BY: TA

DESIGN AND CONSTRUCTION SCHEDULE

	PHASE 3A	PHASE 3B
Final Design	March 2006	February 2007
Construction	May 2007 – August 2007	May 2008 – August 2008
Plant Establishment	August 2007 – October 2009	August 2008 – October 2010
Submit Final Construction Report & Record Drawings	December 2007	December 2008
Submit Initial Monitoring Report	December 2008	December 2009
Submit Final Monitoring Report	December 2009	December 2010

Note: Schedule for Phase 3B is based on secured funding from USFS Southern Nevada Public Land Management Act (SNPLMA) Round 7

<p>EL DORADO COUNTY SOUTH LAKE TAHOE OFFICE</p> 	<p>2006 CTC SITE IMPROVEMENT GRANT AUGMENTATION FINAL APPLICATION APALACHEE EROSION CONTROL PROJECT Proposed Schedule</p>			<p>FIGURE J</p>
	DATE:	Project No.:	BY:	
	11/06	95183/95184	DP	



RESOLUTION No. 035-2000

OF THE BOARD OF SUPERVISORS OF THE COUNTY OF EL DORADO

WHEREAS, it has been determined that erosion is detrimental to the environment of the Tahoe Basin, and

WHEREAS, it has also been determined that erosion does significantly affect the water quality of Lake Tahoe, and

WHEREAS, the County of El Dorado agrees to implement the Apalachee Erosion Control Project in the Lake's South Shore area in order to reduce soil erosion and reduce the discharge of sediment and nutrients into the waters of Lake Tahoe, and

WHEREAS, the California Tahoe Conservancy requires certain assurances as part of their erosion control program, and

WHEREAS, the County agrees to manage and maintain the project over its assumed twenty-year life.

NOW THEREFORE, BE IT RESOLVED, that El Dorado County does support the request to the California Tahoe Conservancy for funding the proposed erosion control work in the Tahoe Basin.

PASSED AND ADOPTED by the Board of Supervisors of the County of El Dorado at a regular meeting of said Board, held on the 1ST day of FEBRUARY 2000, by the following vote of said Board:

Ayes: SUPERVISORS: WILLIAM S. BRADLEY, RAYMOND J. NUTTING, J. MARK NIELSEN, PENNY HUMPHREYS, DAVID A. SOLARO

ATTEST
DIXIE L. FOOTE
Clerk of the Board of Supervisors

Noes: NONE
Absent: NONE

By Margaret E. Moody
Deputy Clerk

William S. Bradley
Chairman, Board of Supervisors

I CERTIFY THAT:
THE FOREGOING INSTRUMENT IS A CORRECT COPY OF THE ORIGINAL ON FILE IN THIS OFFICE

Date February 3, 2000
ATTEST, DIXIE L. FOOTE, Clerk of the Board of Supervisors of the County of El Dorado, State of California.

By Margaret E. Moody
Deputy Clerk

DEPARTMENT OF TRANSPORTATION BOS - AGENDA SIGN-OFF SHEET

Agenda Log # 05-1704



TITLE OF ITEM: Apalachee Phase 3a and 3b Erosion Control Projects - Addendums to Mitigated Negative Declaration (JN95184)

FOR MEETING OF: November 15, 2005 **CAO DUE DATE:** November 1, 2005

PROJECT MANAGER: Alfred Knotts **DATE:** 10/18/05

UNIT MANAGER: Steve Kooyman **DATE:** 10/18/05

SUPPORT STAFF: Traci Williams **DATE:** 10/18/05

Check notifications, approvals and attachments as they apply to this Agenda Item

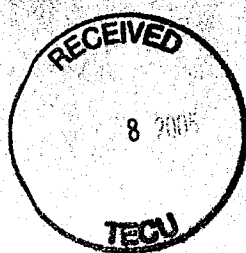
	N/A	Required	Included	Pending	Comments:
Union Notification	X				
Media Notification	X				
HR Approval	X				
Co. Counsel Approval	X				
Risk Mgmt. Approval	X				
Signed Contract	X				
For Powerpoint presentations: Attach hardcopy to send to BOS	X				
Other					

DEPUTY DIRECTOR: [Signature] **DATE:** 10/24/05

DEPUTY DIRECTOR OF ADMIN: [Signature] **DATE:** _____
 (Check N/A if Deputy Director of Administration signature not required) **N/A** X


DIRECTOR: [Signature] **DATE:** 10/31/05

COMMENTS:



**EL DORADO COUNTY BOARD OF SUPERVISORS
AGENDA ITEM TRANSMITTAL
Meeting of November 15, 2005**

AGENDA TITLE: Apalachee Phase 3a and 3b Erosion Control Projects—Addendums to Mitigated Negative Declaration (JN 95184)

DEPARTMENT: Transportation	DEPT SIGNOFF:  10/15/05	CAO USE ONLY:
CONTACT: Alfred Knotts		
DATE: 10/17/05 PHONE: 7921		

DEPARTMENT SUMMARY AND REQUESTED BOARD ACTION:
The El Dorado County Department of Transportation (Department) recommends your Board of Supervisors 1) authorize the Department to carry out the Apalachee Phase 3a and Phase 3b Erosion Control Projects (Projects); 2) certify the Addendums to the Mitigated Negative Declaration (Addendums) are adequate for the Projects; and, 3) authorize the Director of Transportation or his designee to sign the Addendums.

CAO RECOMMENDATIONS:

Financial impact? () Yes (X) No		Funding Source: () Gen Fund () Other
BUDGET SUMMARY:		Other: _____
Total Est. Cost	\$0.00	CAO Office Use Only:
Funding		4/5's Vote Required () Yes () No
Budgeted	\$0.00	Change in Policy () Yes () No
New Funding	\$0.00	New Personnel () Yes () No
Savings	\$0.00	CONCURRENCES:
Other	\$0.00	Risk Management _____
Total Funding	\$0.00	County Counsel _____
Change in Net County Cost	\$0.00	Other _____

***Explain**

BOARD ACTIONS:

Vote: Unanimous _____ Or _____ Ayes: _____ Noes: _____ Abstentions: _____ Absent: _____ Rev. 04/05	I hereby certify that this is a true and correct copy of an action taken and entered into the minutes of the Board of Supervisors Date: _____ Attest: Cindy Keck, Board of Supervisors Clerk By: _____
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MAINTENANCE DIVISION:
2441 Headington Road
Placerville CA 95667
Phone: (530) 642-4909
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RICHARD W. SHEPARD, P.E.
Director of Transportation

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MAIN OFFICE:
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Placerville CA 95667
Phone: (530) 621-5900
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October 17, 2005

Board of Supervisors
330 Fair Lane
Placerville, California 95667

Title: Apalachee Phase 3a and Phase 3b Erosion Control Projects – Addendums to the Mitigated Negative Declaration (JN95184)

Meeting Date: November 15, 2005

District/Supervisor: Vacant

Dear Members of the Board:

Recommendations:

The El Dorado County Department of Transportation (Department) recommends your Board of Supervisors (Board) 1) authorize the Department to carry out the Apalachee Phase 3a and Phase 3b Erosion Control Projects (Projects); 2) certify the Addendums to the Mitigated Negative Declaration (Addendums) are adequate for the Projects; and, 3) authorize the Director of Transportation or his designee to sign the Addendums.

Reasons for Recommendations:

Initially these projects were included as part of the Apalachee Phase 1 Project, for which the Department prepared an Initial Environmental Study and a Mitigated Negative Declaration (IES/MND) to fulfill the requirements of the California Environmental Quality Act (CEQA). Upon completion and circulation of the IES/MND, your Board approved the IES/MND on February 8, 2000 and a Notice of Determination was filed on February 11, 2000.

In February 2004, the Department prepared an Addendum to Phase 1 related to minor modifications to improvement designs and established a Phase 2 of the Apalachee Project. This Addendum was adopted by your Board on March 8, 2005. As additional physical and geographical modifications occurred to the initial Apalachee Phase 1 and Phase 2 Projects, Department staff concluded that it was necessary to establish a Phase 3a and Phase 3b to facilitate construction and funding of the Apalachee Phase 1 Project. In doing so, the Department is required by CEQA to prepare Addendums to the IES/MND approved in February 2000.

The environmental analysis will not require any changes and there are no new significant environmental effects that would require major revisions of the previous IES/MND. Furthermore, the mitigation measures adopted remain the same.

The Apalachee Phase 3a and Phase 3b Projects have been identified by the Tahoe Regional Planning Agency and the California Tahoe Conservancy as priority water quality and erosion control projects in the "Environmental Improvement Program for the Lake Tahoe Region" and "Report on Soil Erosion Control Needs and Projects in the Lake Tahoe Basin" respectively.

Fiscal Impact:

There is no financial impact associated with this Board action.

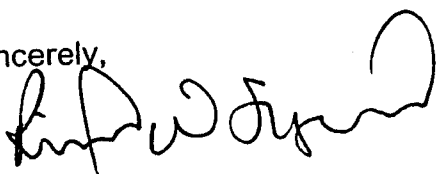
Net County Cost:

There is no net County cost to the County General Fund.

Action to be Taken Following Approval:

Upon approval by your Board, the Department will certify the CEQA Addendums for Apalachee Phase 3a and Phase 3b and submit a Notice of Determination.

Sincerely,



Richard W. Shepard, P. E.
Director of Transportation

RWS:AK:tw

Attachment: Phase 3a Addendum
Phase 3b Addendum

ADDENDUM TO
MITIGATED NEGATIVE DECLARATION

For

APALACHEE EROSION CONTROL PROJECT
PHASE 3A

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

State Clearinghouse #99122015

October 2005

BACKGROUND/LOCATION

In 1999, the El Dorado County Department of Transportation (EDOT) prepared an Initial Environmental Study and a Mitigated Negative Declaration (IES/MND) for the Apalachee Erosion Control Project (Project) to satisfy requirements of the California Environmental Quality Act (CEQA) and the California Tahoe Conservancy (CTC) grant application process. The CTC grant would provide partial project funding. The Project is located in El Dorado County on the south shore of Lake Tahoe. It includes Tahoe Paradise Additions Unit Nos. 1, 2, 3, 4, 5, 6, 7, and 8 Subdivisions, as well as the Rolling Woods Heights Subdivision. Pioneer Trail lies to the south and east of the Project area with the Upper Truckee River to the west, Trout Creek to the east, and a tributary that runs into Trout Creek to the north (see Figure A). For funding and construction purposes, this Project area is divided into three phases, which are depicted on Figure A.

The objectives of this Project are to improve water quality by reducing erosion problems identified in the project area and treating roadway run-off. This will be accomplished through source control measures, improved hydrologic design, and treatment measures and will include stabilizing existing sediment contributors, revegetating denuded and disturbed areas, capturing mobilized sediment and road sand and cinder, and conveying and treating storm water and snow melt runoff.

The IES/MND was circulated for public review between December 7, 1999 and January 5, 2000. Comments from the California Regional Water Quality Control Board-Lahontan Region (Lahontan) were received during the public review period. Responses to these comments were developed and sent to Lahontan. Following incorporation of the comments and associated responses into the IES/MND, the El Dorado County Board of Supervisors approved the IES/MND on February 8, 2000, and a Notice of Determination (NOD) was filed on February 11, 2000.

In February 2004, EDOT prepared an addendum (State Clearinghouse No. 99122015) to Phase 1 related to minor modifications to improvement designs. In February 2005, DOT prepared an addendum (State Clearinghouse No. 99122015) to Phase 2 related to minor modifications to improvement designs. The EDOT is concurrently planning improvements for Phase 3A. This addendum for Phase 3A is required because modifications have been made to the Phase 3A improvement designs. The modifications and associated environmental effects are described below.

NEW PROJECT MODIFICATIONS

The IES/MND was prepared at the conceptual design stage to satisfy CEQA and the CTC grant requirements. Design modifications to Phase 3A improvements were made after the NOD was filed. Proposed modifications that warrant discussion are detailed below. The Figures from the CEQA Initial Study for the Public Property and Right-of-way (ROW) Acquisition Map (Figure B-3) and the Proposed Improvements (Figure E-3) are included in this addendum. The revised versions showing the modifications to these figures as part of Phase 3A are depicted in Figures B-3R and E-3R, respectively. Figures C-3 and D-1 through D-3 of the CEQA Initial Study depicting the problem areas, watershed and the land capability areas remains unchanged.

DISCUSSION OF PROPOSED MODIFICATIONS

Originally, the Project was funded under the CTC guidelines that require projects to meet the sediment reduction efficiency criteria of 6.4 pounds / per dollar cost of improvement to qualify for funding. DOT and the CTC agreed to implement the preferred design approach required under newer CTC guidelines. To that end, a hybrid form of the Draft Formulating and Evaluating Alternatives (FEA) process developed through the Storm Water Quality Improvement Committee (SWQIC) is being implemented. The intention is that this process would allow funding, regulatory, and implementing agencies to reach consensus on the most effective alternatives for water quality and erosion control and result in enhanced projects. DOT began implementation of this process for Phase 1 in April 2003.

The hybrid FEA process has been implemented for Phase 3A of the Project. Proposed Phase 3A enhancements are similar to those developed for Phases 1, 2, and 2A in their types and intensity. Some proposed Phase 3A enhancements will be located on newly identified CTC parcels within the same study Project area boundary evaluated in the IES/MND. During Phase 3A planning, the enhancement types and locations were refined from the original conceptual designs. Proposed modifications are as follows:

In Phase 3A, four CTC parcels have been added. The Assessors Parcel Numbers (APN) and associated improvements are:

- o Install culvert sections, two sediment traps, an infiltrator with a flared end section, and vegetated channel within a County easement on APN 33-873-04 on Kulow St.
- o Install vegetated channel on APN 80-071-25
- o Install pipe flared end section, and vegetated swale on APN 33-862-21
- o Install vegetated swale on APN 33-862-08

In Phase 3A, two USFS parcels have been added. Associated improvements and APNs are as follows:

- o Install sediment trap, permeable pavement, rock lined channel, infiltrator, and fence on APN 80-030-02 near the end of Koyukon Dr.; and
- o Install vegetated channel on APN 33-873-05

Within the County ROW, the following modifications to improvements shown in the IES/MND are proposed:

- o Construct an AC Swale from 1832 Jicarilla (APN- 080-061-11) to just north of the last culvert crossing on Jicarilla. The swale would start at the driveway of 1822 Jicarilla (APN 080-061-10) and continue south to the inlet of the 15" culvert crossing.
- o Remove, realign, and replace the 21" culvert crossing on Jicarilla (approximate APN 080-071-24). At the outlet construct a bypass channel system on the two CTC lots (APN 080-071-25 and APN 080-071-26) to the south of the 21" culvert outlet channel.

- Construct a concrete headwall at three of the four culvert crossings on Jicarilla to improve the hydrologic design of each inlet. Construct a baffle system at each inlet and replace each of the culvert ts.
- Continue curb on the western side of the Koyukon 5 lots south of Panka to the end of Koyukon Install storm drain system to convey the runoff from the DI to the end of Koyukon Drive
- Install DI at the north corner of the Panka/Koyukon Intersection and regrade the cut slopes.
- Relocate the existing DI at 1940 Koyukon (APN# 033-861-13) off the driveway and realign the pipe. Construct a headwall at the outlet.
- Install a new DI and 18" pipe crossing at 1920 Koyukon Drive (APN# 033-861-09)
- On the eastern side of Koyukon install curb and gutter 5 lots south of Panka to the intersection with Carnarsee, wrapping the corner
- Construct curb on the western side of Brule Street from the start at Kulow to the first property north of Watson. Regrade the cut slope and revegetate the slope
- Add a DI to the existing storm drainpipe (200' north of the Kulow intersection)
- Install a DI at the corner of Kulow and Brule.
- Construct curb on the eastern side of the road for the last 200 feet of Brule Street. Install a bubble-up sediment trap on the outlet of the 18" pipe to convey flows from west of the intersection. Regrade the slopes to the curb backing and revegetate the slope.
- Construct a retaining wall/rock slope protection on the northwest corner of Kulow and Brule.
- Continue vegetated channel and tie into curb at CTC lot to the north of 1932 Brule (APN# 033-862-09)
- Construct curb on the western side of the Brule, continuing from the first pipe crossing (southern end) to one lot past the intersection with Watson Street. Regrade the slopes in areas of eroding cut banks.
- Construct curb and gutter at the western and eastern corners of Brule and Carnarasee. Transition the existing channel into the curb, starting the curb approximately 3 lots south of the intersection (east side) and 6 lots south (west side). Install DI at the low point of the southeast curb return. Revegetate the existing eroding channels.
- Construct curb on both sides of Hunkpapa, from Kulow to 460 feet north of the intersection. Install a DI at the low point of the northeast corner. The curb would continue on to the intersection of Brule and Kulow. A baffle would be installed at the inlet of the main drainage.
- Construct curb on the northern side of Watson, continuing from the high point at Koyukon to the low point at Minniconjou. Install DI's at the curb returns on the northwest and northeast corners of Brule and Watson.
- At the corner of Hunkpapa and Watson, install DI's on the northwest and northeast corners.
- Install a storm drain manhole at the intersection of Watson and Minniconjou.
- Abandon the pipe crossing Hunkpapa on the southern side of Watson and install a new pipe connecting to a manhole. Install a sediment trap with a grated inlet at the inlet of the new pipe.

- Construct curb on the southern side of Watson from Hunkpapa to Minniconjou. On the curb return to Minniconjou install a DI that connects to the proposed storm drain.
- Replace each of the existing 15" pipes on Watson with the County standard of 18" between Koyukon and Minniconjou.
- Construct curb on the southern and northern sides of Huph St., continuing from the low point at Minniconjou to the high point at Hunkpapa. The northern section of the curb on east side of Hunkpapa will continue to the intersection at Carnarsee.
- Construct curb along the entire length of Carnarsee along the southern side. Regrade (where necessary) and revegetate the slopes leading into the curb backing.
- At the southeast corner of Brule and Carnarsee install a DI and a new 18" pipe. At the inlet of the existing 18" construct a curb opening, which will inlet into a sediment trap.
- Install curb on the north side of Carnarsee St. from the last driveway on Carnarsee to the northern end of Minniconjou.
- Install DI on southwest corner of Carnarsee and Minniconjou. Replace the pipe crossing under Carnarsee and connect DI to the proposed improvements at the end of Minniconjou.
- At the low point on Minniconjou between Kulow St. and Watson St. install a curb opening and sediment trap with the outflow to be directed into the existing drainage channel. Revegetate the areas behind curb that have been previously eroded.
- Remove the 24" pipe crossing at Minniconjou and Kulow and install new pipe that acts as a storm drain connecting to a proposed sediment trap.
- Construct curb on the west side of Minniconjou from 1928 Minniconjou (APN# 033-864-14) to the intersection with Kulow where the curb would continue to the intersection with Hunkpapa.
- At the corner of Kulow and Minniconjou install a DI and connect to the proposed storm drain pipe
- Abandon the 15" culvert at the intersection with Watson St. and Minniconjou St. and regrade the channel between Watson and the 15" broken back culvert to enable the water to drain. At the same time increase the size of the culvert to 18".
- At the eastern most storm drain manhole on Watson install a culvert parallel to Minniconjou that connects to a junction manhole installed saddling the existing 24" culvert. In addition, a double sediment trap would be installed at the inlet of the existing 24" culvert, with a curb opening on Minniconjou.
- Install curb from Huph Street around both corners at the intersection with Minniconjou. From the southern curb return continue to the curb south on Minniconjou to the existing 15" culvert crossing. Construct curb opening into sediment trap, which connects to existing 15" culvert. Regrade the slopes behind curb and revegetate. Abandon the 15" culvert crossing at Huph and Minniconjou. From the northern curb return continue the curb north to the intersection with Carnarsee.
- Construct curb along the northwest corner of Carnarsee and Minniconjou. Start the curb at the last driveway on the north side of Carnarsee to the first driveway

- o on the west side of Minniconjou, due north of Carnarsee. Install a double sediment trap at the northwest end of Minniconjou.
- o Construct curb along the southern side of Carnarsee connecting to the proposed curb on Minniconjou. At the southwest curb return install a DI and connect it to a sediment trap. Remove and replace the existing 15" culvert with an 18" culvert, realigning the culvert to connect to a proposed storm drain junction structure, which would have an 18" outlet culvert that ultimately connects to the double sediment trap at the end of Minniconjou.
- o Install a Porous Pavement Swale at the north end of Minniconjou.

ENVIRONMENTAL ANALYSIS

Project Phase 3A modifications described above will not require any changes to the responses in the 1999 Initial Study Checklist, hence, no new significant effects are identified and mitigation measures are needed.

A willow flycatcher protocol survey in identified potential habitat will be conducted in spring of 2006, in the meadow north and east of the intersection of Jicarilla Drive and Susquehana Drive extending northeast to the Project boundary. According to the protocol, the two-part flycatcher survey will be scheduled as follows. One survey will take place between June 15 – 25. The second survey will take place either between June 1 – 14, or between June 26 – July 15. The biologist conducting the survey will make the determination of when to survey based on the weather (i.e. late spring snows and/or slow snowmelt will make the later survey more appropriate). A copy of the survey results would be submitted to the CTC. If flycatcher protocol surveys have been conducted and no willow flycatchers have been detected, operations may proceed during the breeding season (May 1 - August 31). If the flycatcher protocol survey determines that willow flycatchers are nesting in or adjacent to the project impact area, a consultation with CDFG will be necessary, and the probable restrictions would be:

- No ground or vegetation disturbing project activity within 300 feet of the habitat during the breeding season (May 1 - August 31).
- Any operations conducted within or adjacent to suitable willow flycatcher habitat shall not damage or destroy willows or other riparian shrubs.

Known nest locations in the Project vicinity for northern goshawk were identified through a search of the California Natural Diversity Database. A survey was conducted in 2005. No northern goshawk activity was found near the Project area. A copy of the survey results is attached. EDOT will contact the USFS LTBMU raptor biologist two weeks prior to the commencement of construction related activities to verify that no new nests have been identified in the vicinity. If any active nests are known within the area, consultation with USFS would be undertaken regarding regulation and timing of construction activities.

Since the 1999 approval of the Project IES/MND, the El Dorado County General Plan was legally challenged and set aside by the Sacramento Superior Court. To address the Court's findings, the County prepared a new General Plan, which was adopted on July 19, 2004. The County cannot implement a new General Plan until the Superior Court lifts the Writ of Mandate. The County anticipated that process to be complete by the end

of 2004. However, subsequent to plan adoption, a referendum measure that would also affect implementation of the plan was filed with the County. That referendum, which appeared on a March 8, 2005, ballot, will ask county voters to either uphold or reject the Board's adoption of the new plan. As a result, the County voters approved the Board's adoption of the new plan.

As the following addendum to the CEQA Checklist explanation details, the Project is authorized and valid under the County General Plan and will not result in the significant increase in traffic or water consumption.

I. Land Use and Planning

- a) The determination of no impact under Land Use/Planning remains the same. However the following explanation is added to the original CEQA Checklist under Land Use and Planning.

El Dorado County's General Plan contains goals, objectives, and policies that guide growth and development within areas under the County's jurisdiction, including the project area. The 1996 General Plan was set-aside in September 1999 as a result of a determination by the Sacramento County Superior Court that, in certain respects, the County had not fully complied with CEQA in preparing the EIR and findings for the General Plan. A hearing was held on the form of the Writ to be issued, that included the scope of remedy to be imposed while the County worked to correct these CEQA violations. The court issued a Writ of Mandate that governs the County's land use decisions during the interim period between the issuance of the Writ and the completion of a new General Plan. The Project is authorized under the Writ in that it does not have the effect of allowing the commencement, expansion, or intensification of any new use on property; does not result in a significant increase in traffic or water consumption; and the Project approval and permitting falls within the purview of the Tahoe Regional Planning Agency.

VI. Transportation/Circulation

- b) The determination of "Potentially Significant Unless Mitigation Incorporation" for transportation/circulation from the Project IES/MND remains unchanged; however the following items satisfy requirements of the current CEQA Checklist for this topic:

In 1998, voters adopted Measure Y. Measure Y added several new policies in the Circulation Element of the General Plan. Specifically, traffic from residential development projects of five or more units must not result in level of service F or worse traffic congestion during weekday, peak-hour periods on any highway, road, interchange, or intersection in the unincorporated areas of the County. The Project is consistent with the provisions of Measure Y, since it is not a residential development project and will not permanently increase traffic congestion.

FINDINGS/CONCLUSIONS

Pursuant to CEQA Guidelines Section 15162, as applicable to an IES/MND, DOT draws the following conclusions regarding the proposed Phase 3A modifications:

- 1) The proposed Project will not result in substantial changes that would lead to the identification of new or previously unidentified significant environmental effects that require major revisions of the previous IES/MND.
- 2) There has been no substantial change with respect to the circumstances under which the Project is being undertaken that would require a major revision of the previous IES/MND due to the involvement of new significant environmental effects.
- 3) No new information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the IES/MND was adopted, shows that the Project will have one or more significant effects not discussed in the previous IES/MND. Furthermore, the mitigation measures adopted in the IES/MND remain the same.

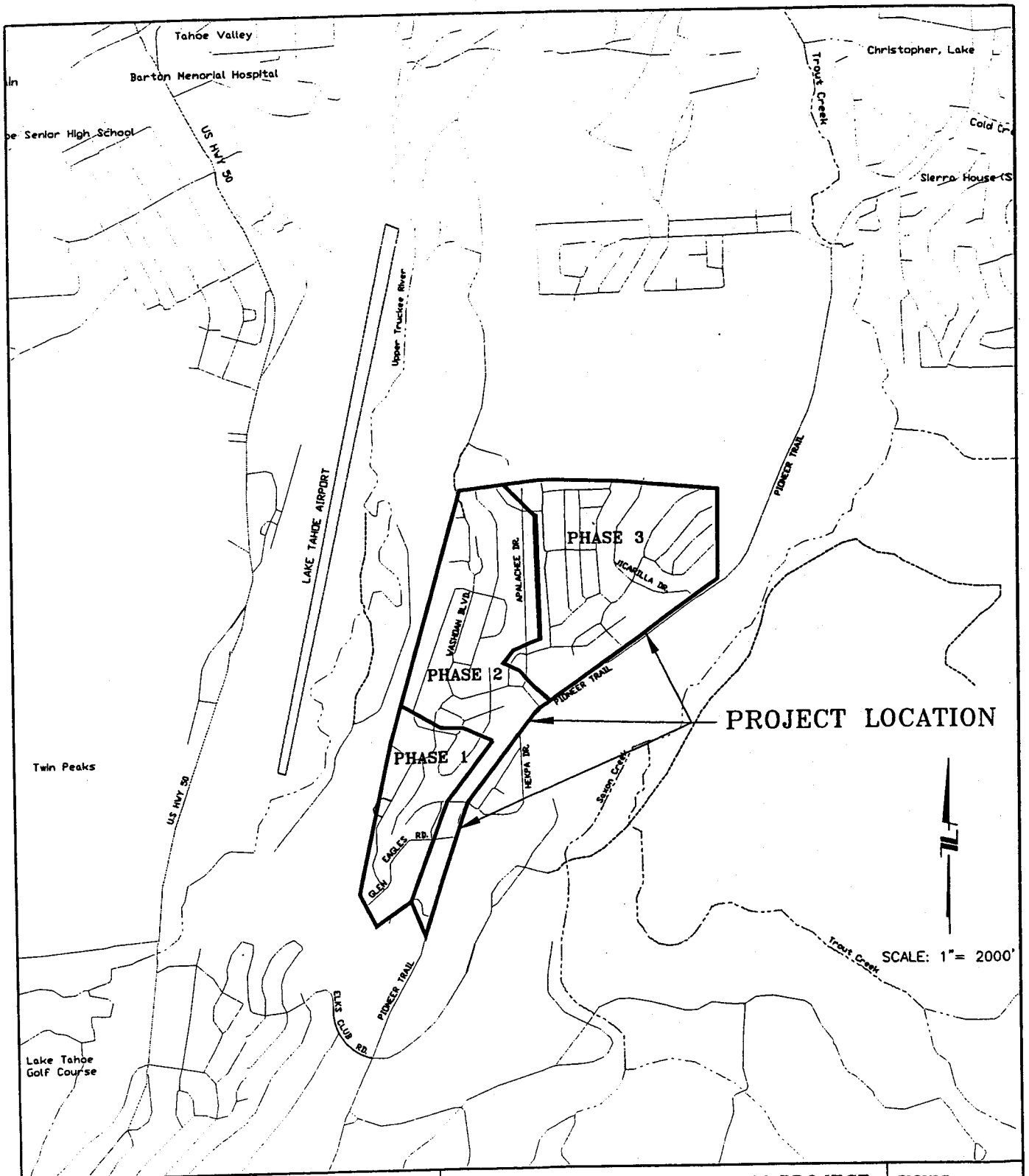
Based on these findings, DOT has concluded that preparation of a subsequent IES/MND for the Project is unnecessary and that preparation of an Addendum is appropriate in accordance with CEQA Guidelines Section 15164. DOT accordingly approves this Addendum and the associated Project modifications.

11/29/05
Date

[Signature]
Department of Transportation
Representative

Director
Title

FIGURES



EL DORADO COUNTY
SOUTH LAKE TAHOE OFFICE



APALACHEE EROSION CONTROL PROJECT
ADDENDUM TO MITIGATED NEG. DEC.

Location Map

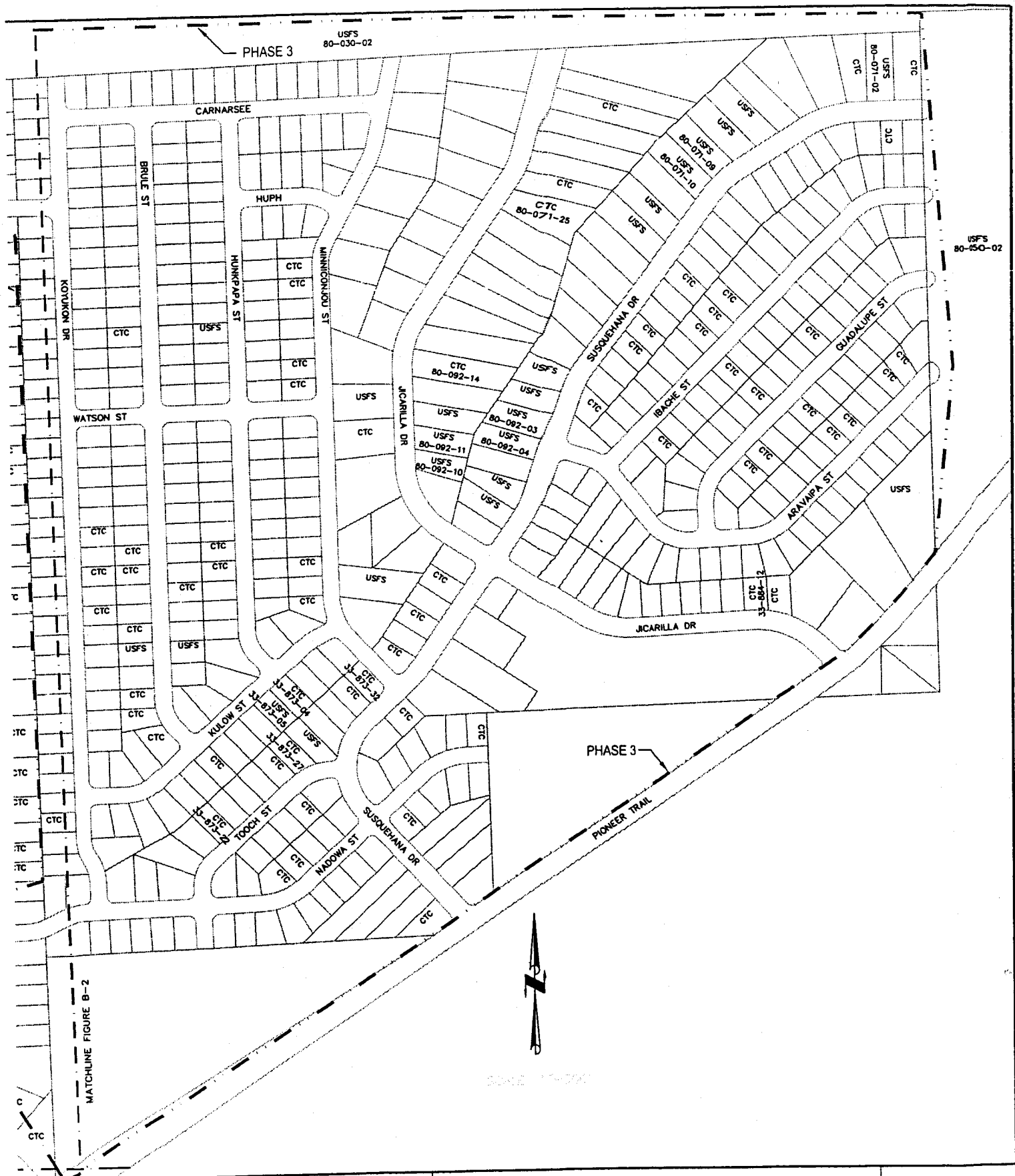
FIGURE

A

DATE: 01/05

PROJECT NO.: 95184/95185

BY: CMG



EL DORADO COUNTY
SOUTH LAKE TAHOE OFFICE



APALACHEE EROSION CONTROL PROJECT
CEQA - INITIAL STUDY
Public Property and Right-Of-Way Acquisition Map

FIGURE

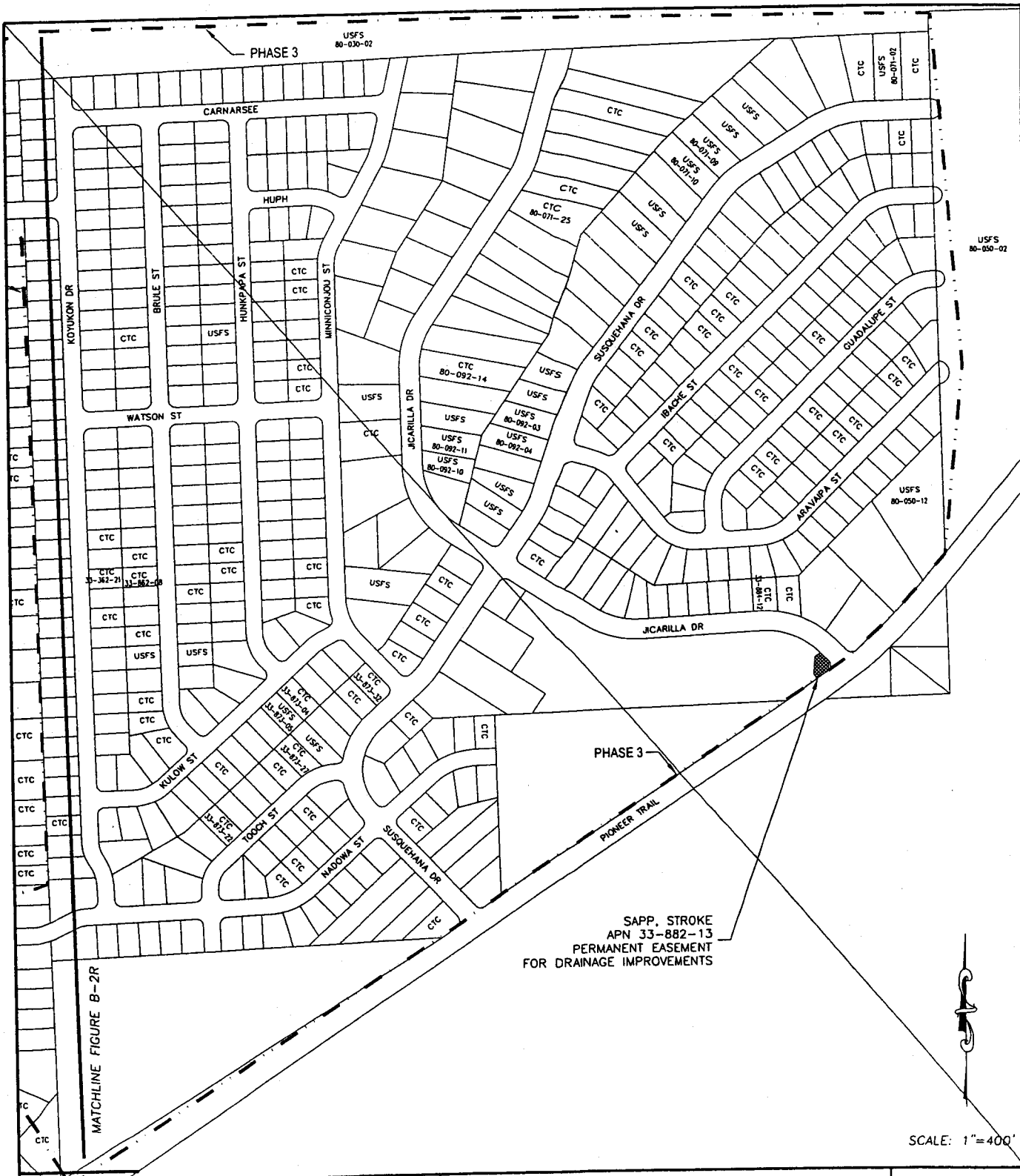
B-3

DATE: 12/99

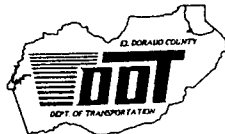
PROJECT NO.: 95154

BY: TCA

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EL DORADO COUNTY
SOUTH LAKE TAHOE OFFICE



APALACHEE EROSION CONTROL PROJECT
ADDENDUM TO MITIGATED NEG DEC
Phase 3 Area
Revised Public Property and Right of Way Acquisition

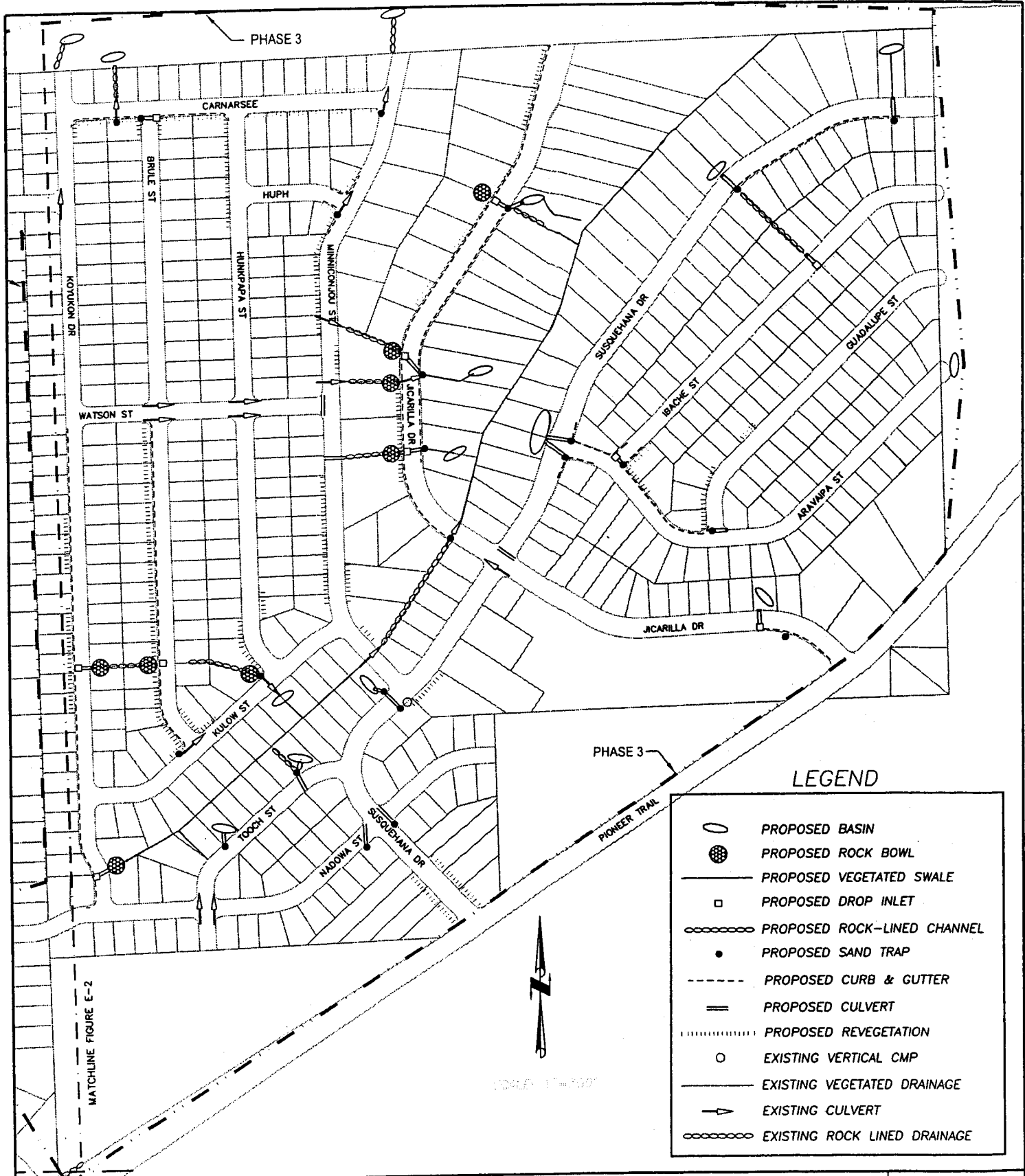
FIGURE

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DATE: 10/05

PROJECT NO.: 95184

BY: DWK



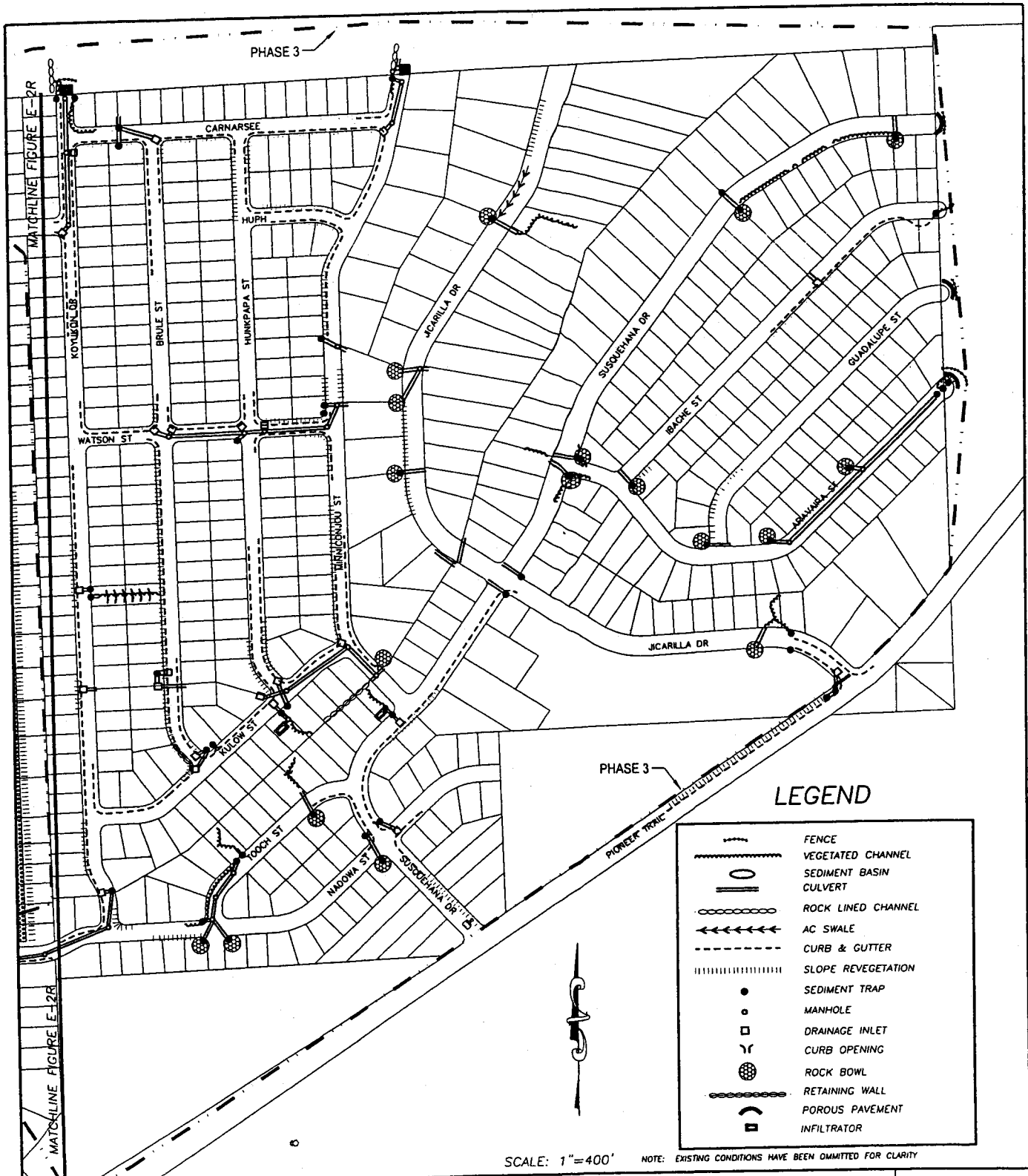
EL DORADO COUNTY
SOUTH LAKE TAHOE OFFICE

APALACHEE EROSION CONTROL PROJECT
CEQA - INITIAL STUDY
Proposed Improvements

DATE: 12/99 PROJECT NO.: 95154 BY: TCA

FIGURE
E-3

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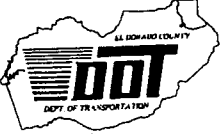


LEGEND

	FENCE
	VEGETATED CHANNEL
	SEDIMENT BASIN
	CULVERT
	ROCK LINED CHANNEL
	AC SWALE
	CURB & GUTTER
	SLOPE REVEGETATION
	SEDIMENT TRAP
	MANHOLE
	DRAINAGE INLET
	CURB OPENING
	ROCK BOWL
	RETAINING WALL
	POROUS PAVEMENT
	INFILTRATOR

SCALE: 1" = 400' NOTE: EXISTING CONDITIONS HAVE BEEN OMITTED FOR CLARITY

EL DORADO COUNTY
SOUTH LAKE TAHOE OFFICE



APALACHEE EROSION CONTROL PROJECT
ADDENDUM TO MITIGATED NEG DEC
Phase 3 Area
Revised Proposed Improvements

FIGURE
E-3R

DATE: 10/05	PROJECT NO.: 95184	BY: DWK
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APPENDICES

Table 1 Special Status Wildlife Species Recorded in the General Apalachee 3A Project Area*

Scientific Name	Common Name	Federal Status	State Status	Other	Habitat Requirements	Sensitive period	Potential for occurrence in Project area	Results of Survey
Federally Listed and Federal Candidate Species								
<i>Haliaeetus leucocephalus</i>	bald eagle	FT	CE		Migratory. Nesting and wintering ocean shore, lake margins and rivers. Most nests within 1 mi of water in large old growth or dominant live tree with open branches, especially <i>Ponderosa pine</i> . Breeds occasionally in water.	N/A	Unlikely. Known nests are on the shore of Lake Tahoe. Little or no appropriate habitat in project area	No survey conducted
<i>Martes pennanti pacifica</i>	Pacific fisher	FC	CSC	FS	Large areas of intermediate to large-free stages of coniferous forests and deciduous riparian areas with high degree of closure Cavities in snags, logs and rocks for cover and denning. Historically, accessible cold waters of the Lahontan Basin and in a wide variety of water temps and conditions. Requires gravel riffles in streams for spawning.	N/A	Unlikely to be near project area due to high human density.	No survey conducted
<i>Oncorhynchus clarki henshawi</i>	Lahontan cutthroat trout	FT				March-June	Potential habitat present with reintroduction but encountering the species is very unlikely.	No survey conducted
California Listed Species								
<i>Empidonax traillii</i>	willow flycatcher		CE		Nests in thickets of low dense willows on edge of wet meadows, ponds or backwater 2000-8000 ft elevation	May - Aug	Potential habitat present.	Protocol survey scheduled for summer of 2006.
<i>Gulo gulo</i>	California wolverine		CT	FS, CFP	Wide variety of high elevation habitats near water. Uses caves, logs, burrows for den. Hunts in open areas. Can travel far.	N/A	Unlikely to be near project area due to high human density.	No survey conducted
<i>Riparia riparia</i>	bank swallow		CT		Colonial nester in vertical banks or cliffs with fine-textured sandy soils near streams, rivers, lakes, ocean to dig nest hole	Feb - May	Very unlikely. No appropriate habitat in project area.	No survey conducted
Other Special Status Species								
<i>Accipiter gentilis</i>	northern goshawk		CSC	FS	Uses old nests in conifer forests on north slopes near water in red fir, lodgepole pine, jeffrey pine communities. Preys on birds	Mar - Aug	Appropriate habitat present adjacent to project area. May forage but not expected to nest in project area due to high human density.	Not encountered, no nests detected. Nearest known nest sites are over 0.5 mi away to the northwest and to the southeast.
<i>Aquila chrysaetos</i>	golden eagle		CSC		rolling foothill mtn areas, sage-juniper flats, deserts. Usually nests in cliff-walled canyons or large trees in open areas.	Feb - Aug	Unlikely to be present. Habitat of project area very marginal for this species	No survey conducted
<i>Capnia lacusra</i>	Lake Tahoe benthic stone fly		CSC		Endemic to Lake Tahoe at depths of 95-400 ft	summer	Not present. Project not in the Lake	No survey conducted
<i>Cypseloides niger</i>	black swift		CSC		Breeds in small colonies on cliffs behind or adjacent to waterfalls in deep canyons and sea bluffs, for areas widely	May - Sept	Very unlikely, no appropriate habitat	No survey conducted
<i>Hellisoma newberryi</i>	Great Basin rams-horn			FS	Larger lakes and slow rivers, jar spring sources and spring-fed creeks	spring/summer	Very unlikely, no appropriate habitat.	No survey conducted
<i>Lepus americanus tahoensis</i>	Sierra Nevada snowshoe hare		CSC		Boreal riparian areas and young conifer thickets of Sierra Nevada	N/A	Appropriate habitat present adjacent to project area but not expected due to high human density and presence of large dogs.	No survey conducted

Table 1 Special Status Wildlife Species Recorded in the General Apalachee 3A Project Area*

Scientific Name	Common Name	Federal Status	State Status	Other	Habitat Requirements	Sensitive period	Potential for occurrence in Project area	Results of Survey
<i>Lepus townsendii</i>	western white-tailed jackrabbit		CSC		sagebrush, subalpine conifer, juniper, shrub and grassland; open areas with scattered shrubs	N/A	Very unlikely. Potential habitat present but has not been recorded since 1915	No survey conducted
<i>Martes americana</i>	American pine marten			FS	Mixed conifer forest / old growth with over 40% crown closure and snag cavities for dens	N/A	Appropriate habitat present adjacent to project area but not expected due to high human density.	No survey conducted
<i>Pandion haliaetus</i>	osprey		CSC		nests on shores, bays, freshwater lakes, and large streams in treetop or snag within 15 miles of good fish producing body of water	N/A	Possible Project is within 15 miles of Lake Tahoe and appropriate trees are present.	No survey conducted
<i>Speyeria nakomis carsonensis</i>	Carson Valley silverspot				isolated colonies in wet meadows along the eastern base of the Carson Range	spring/summer	Unlikely, project probably out of range	No survey conducted
<i>Taxidea taxus</i>	American badger		CSC		Dry open areas in shrubland, forest, and herbaceous habitat with friable soils for den. Preys on burrowing rodents.	N/A	Potentially present. Some appropriate habitat in and adjacent to project area.	No survey conducted
<i>Xanthocephalus xanthocephalus</i>	yellow-headed blackbird				Nests in freshwater emergent wetland vegetation and deep water, often along borders of lakes or ponds where large insects are abundant	spring/summer	Unlikely, insufficient habitat in project area	No survey conducted

Status Legend

Federal Status
 FT = Federally listed Threatened
 FC = Candidate for federal listing

California Status
 CT = California Threatened
 CE = California Endangered
 CSC = California Species of Special Concern
 CFP = California Fully Protected

Other Status
 FS - Forest Service Sensitive

* A "9-quad search" of CNDDDB records was conducted for the USGS project quad, South Lake Tahoe. CNDDDB records were for Meeks Bay, Emerald Bay, Echo Lake, South Lake Tahoe, Freel Peak, Minden and Woodfords. The two quads to the north and northwest are in Nevada and are not tracked by CNDDDB

Apalachee 3A

Northern goshawk (*Accipiter gentiles*)
FSC (nesting), USFS-SS, CSC (nesting), and TRPA

Northern goshawk is a raptor of mid to high elevation mature coniferous forest throughout the Sierra Nevada, and is a year-round resident species in the Lake Tahoe Basin. Goshawks also occur in the foothills during winter, in northern deserts with pinon-juniper woodland, and in lower elevation riparian habitats. Optimal nesting habitat for goshawk is dense forest with a closed canopy (>50%) for protection and thermal cover, and open spaces to allow maneuverability in flight. Nesting territories are often characterized by dense stands of large diameter trees with interconnected canopies, along drainages. Nest trees are usually in the densest part of stands, on north slopes near water. Goshawk reproductive season begins by mid-February in northern California. They prey mostly on birds, using snags and dead treetops as observation platforms. Northern goshawks are susceptible to human disturbance such as recreational activities and urbanization.

The Tahoe Regional Planning Agency (TRPA) has designated twelve areas as northern goshawk population sites within the Lake Tahoe Basin. The TRPA prohibits operating activities within 0.5 mile of active goshawk nests between March 1 and August 31. There are no TRPA population sites within 0.5 mile of the Apalachee 3A Project area.

The U.S. Forest Service Lake Tahoe Basin Management Unit (LTBMU) regulates activities within 0.25 -0.5 mile of known active nests, depending on nature of activity, from February 15 – September 15. The LTBMU designated 300 acres as Protected Activity Centers (PACs) around all known northern goshawk-nesting areas. The Project area is not located within a PAC.

There are three California Natural Diversity Database (CNDDDB) records of northern goshawk nests within a ten-mile radius of the Project area, occurrence numbers 125, 126, and 127. The last update of these occurrences in the CNDDDB was 1995, with last known activity at the nests in 1981.

Occurrence 125 is along Angora Creek, about 3.5 miles west of Apalachee 3A Project boundary. Two young were fledged there in 1981.

Occurrence 126 (Figure 1) is about 0.5-mile southeast of the Apalachee 3A Project area. Per CNDDDB, this nest was active in 1981, but was abandoned because of land use changes.

Occurrence 127 (Figure 2) is approximately 500 feet northwest of the Lake Tahoe Airport, about one mile northwest of Apalachee 3A Project boundary. That nest fledged three young in 1981.

In June and August of 2005 ENTRIX, Inc. biologists consulted with the LTBMU avian biologist Victor Lyon about goshawks in the Apalachee 3A Project. Mr. Lyon provided the following information.

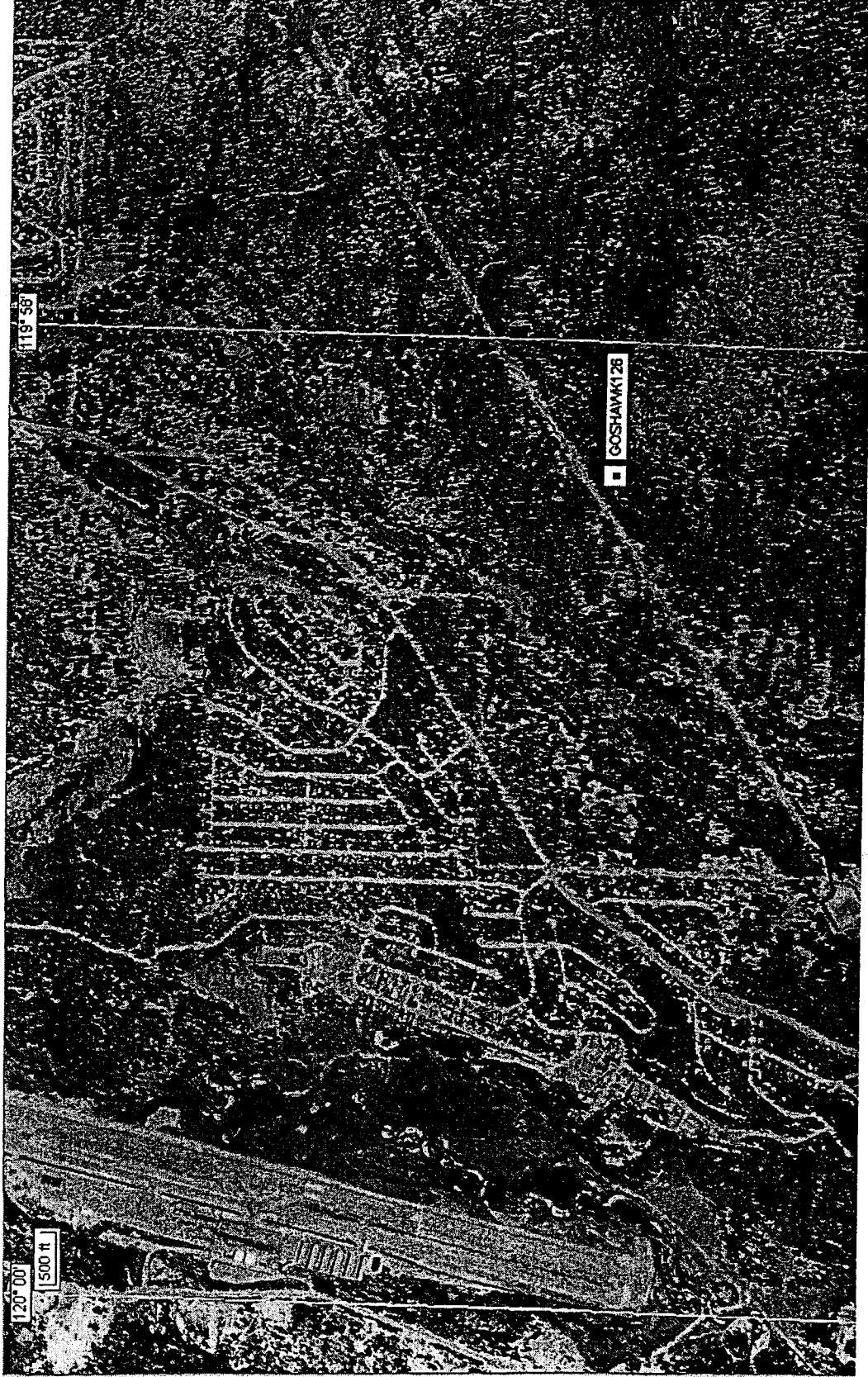
There are several known goshawk territories in the vicinity of the Apalachee 3A Project area. An USFS PAC is located east of Pioneer Trail, outside of the Apalachee 3A Project boundary. The nearest known recently active nest in this PAC was approximately 0.95 mile east of Guadalupe St. in 2003. Another nest 2.13 miles east of Pioneer Trail was active in 2003.

Results

In June and July of 2005, ENTRIX, Inc. biologists assessed the Project area for potential goshawk nesting habitat. Although there is marginal potential habitat in the form of forested parcels or limited strips within the project boundaries, they are not dense, the canopy cover is not closed, and existing human activity in the area is high. The Apalachee 3A Project area does not contain sufficient appropriate nesting habitat for northern goshawk and they are not expected to nest within the project boundaries, although they may forage there.

No northern goshawk was detected during the biological surveys conducted in June and August of 2005. Activities related to the Apalachee 3A erosion control project is not expected to affect northern goshawk, as no known, recently active nests are located within 0.5 mile of the planned Project activities. However, two weeks in advance of any Project construction activities scheduled between the dates of February 15 and September 15, EDOT should contact the USFS LTBMU raptor biologist regarding any newly active northern goshawk nest sites within 0.5 miles of the Project area limits. If any active nests are known within the area, consultation with USFS should be undertaken regarding regulation and timing of construction activities.

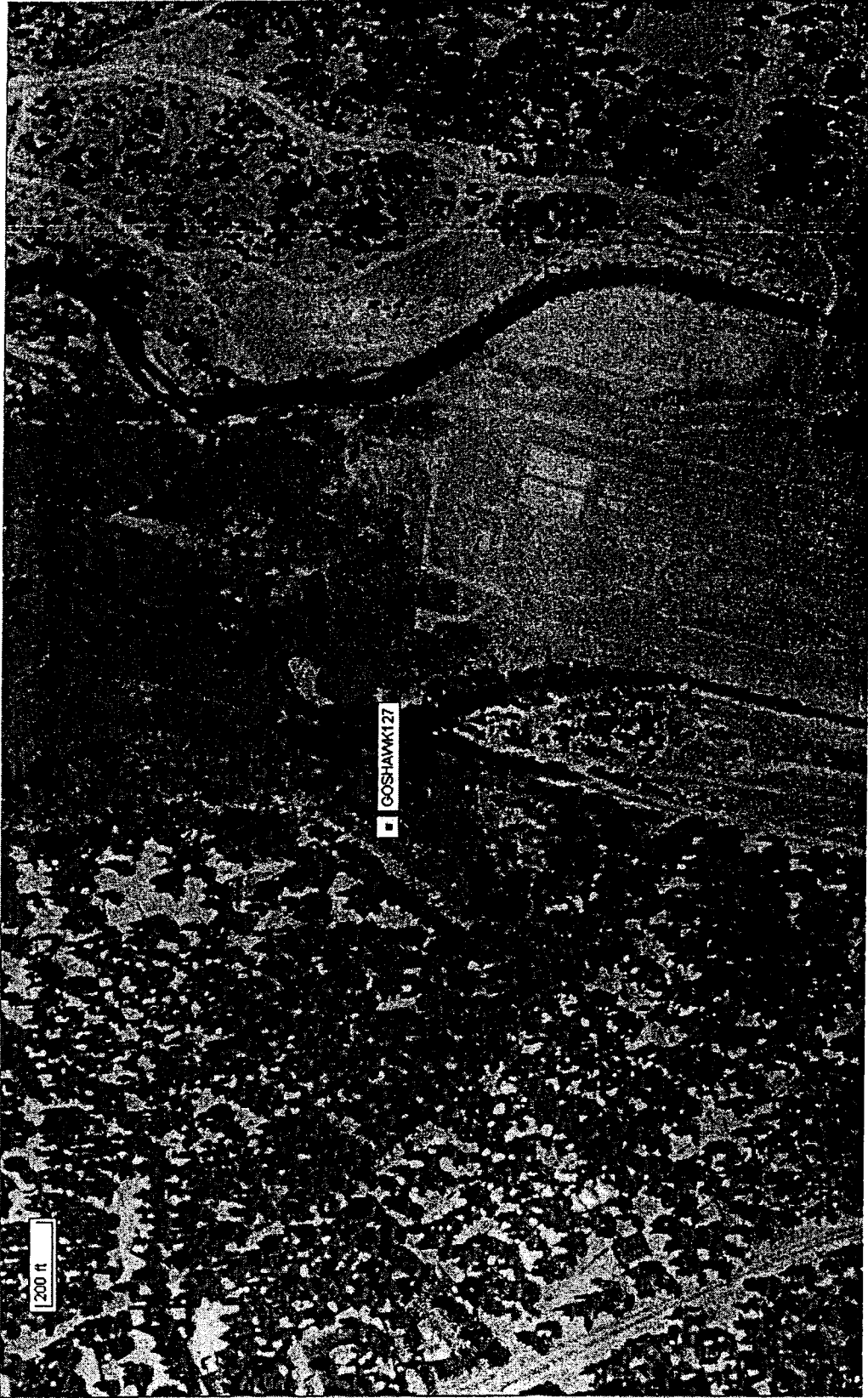
FIGURES



El Dorado County Department of Transportation
Apalachee Erosion Control Project Phase 3A
Figure 1 Northern Goshawk CNDDDB Nest Occurrence 126

GOSHA WK 126

CNDDDB Nest Occurrence Location



El Dorado County Department of Transportation
Apalachee Erosion Control Project Phase 3A
Figure 2 Northern Goshawk CNDDDB Nest Occurrence 127

GOSHAWK127

.CNDDDB Nest Occurrence Location

ADDENDUM TO
MITIGATED NEGATIVE DECLARATION

For

APALACHEE EROSION CONTROL PROJECT
PHASE 3B

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

State Clearinghouse #99122015
October 2005

BACKGROUND/LOCATION

In 1999, the El Dorado County Department of Transportation (EDOT) prepared an Initial Environmental Study and a Mitigated Negative Declaration (IES/MND) for the Apalachee Erosion Control Project (Project) to satisfy requirements of the California Environmental Quality Act (CEQA) and the California Tahoe Conservancy (CTC) grant application process. The CTC grant would provide partial project funding. The Project is located in El Dorado County on the south shore of Lake Tahoe. It includes Tahoe Paradise Additions Unit Nos. 1, 2, 3, 4, 5, 6, 7, and 8 Subdivisions, as well as the Rolling Woods Heights Subdivision. Pioneer Trail lies to the south and east of the Project area with the Upper Truckee River to the west, Trout Creek to the east, and a tributary that runs into Trout Creek to the north (see Figure A). For funding and construction purposes, this Project area is divided into three phases, which are depicted on Figure A.

The objectives of this Project are to improve water quality by reducing erosion problems identified in the project area and treating roadway run-off. This will be accomplished through source control measures, improved hydrologic design, and treatment measures and will include stabilizing existing sediment contributors, revegetating denuded and disturbed areas, capturing mobilized sediment and road sand and cinder, and conveying and treating storm water and snow melt runoff.

The IES/MND was circulated for public review between December 7, 1999 and January 5, 2000. Comments from the California Regional Water Quality Control Board-Lahontan Region (Lahontan) were received during the public review period. Responses to these comments were developed and sent to Lahontan. Following incorporation of the comments and associated responses into the IES/MND, the El Dorado County Board of Supervisors approved the IES/MND on February 8, 2000, and a Notice of Determination (NOD) was filed on February 11, 2000.

In February 2004, EDOT prepared an addendum (State Clearinghouse No. 99122015) to Phase 1 related to minor modifications to improvement designs. In February 2005, DOT prepared an addendum (State Clearinghouse No. 99122015) to Phase 2 related to minor modifications to improvement designs. The EDOT is concurrently planning improvements for Phase 3B. This addendum for Phase 3B is required because modifications have been made to the Phase 3B improvement designs. The modifications and associated environmental effects are described below.

NEW PROJECT MODIFICATIONS

The IES/MND was prepared at the conceptual design stage to satisfy CEQA and the CTC grant requirements. Design modifications to Phase 3B improvements were made after the NOD was filed. Proposed modifications that warrant discussion are detailed below. The Figures from the CEQA Initial Study for the Public Property and Right-of-way (ROW) Acquisition Map (Figure B-3) and the Proposed Improvements (Figure E-3) are included in this addendum. The revised versions showing the modifications to these figures as part of Phase 3B are depicted in Figures B-3R and E-3R, respectively. Figures C-3 and D-1 through D-3 of the CEQA Initial Study depicting the land capability areas remains unchanged.

DISCUSSION OF PROPOSED MODIFICATIONS

Originally, the Project was funded under the CTC guidelines that require projects to meet the sediment reduction efficiency criteria of 6.4 pounds / per dollar cost of improvement to qualify for funding. DOT and the CTC agreed to implement the preferred design approach required under newer CTC guidelines. To that end, a hybrid form of the Draft Formulating and Evaluating Alternatives (FEA) process developed through the Storm Water Quality Improvement Committee (SWQIC) is being implemented. The intention is that this process would allow funding, regulatory, and implementing agencies to reach consensus on the most effective alternatives for water quality and erosion control and result in enhanced projects. DOT began implementation of this process for Phase 1 in April 2003.

The hybrid FEA process has been implemented for Phase 3B of the Project. Proposed Phase 3B enhancements are similar to those developed for Phases 1, 2, 2A, and 3A in their types and intensity. Some proposed Phase 3 enhancements will be located on newly identified CTC parcels within the same study Project area boundary evaluated in the IES/MND. During Phase 3B planning, the enhancement types and locations were refined from the original conceptual designs. Proposed modifications are as follows:

In Phase 3B, five CTC parcels have been added. The Assessors Parcel Numbers (APN) and associated improvements are:

- Install vegetated channel on APN 33-873-22 on Tooch St. and a culvert, flared end section would be installed in the County ROW fronting this parcel;
- Install a vegetated channel, culvert section, and flared end section on APN 33-873-27 on Tooch St.;
- Install a culvert, flared end section, infiltration gallery, and vegetated channel on APN 33-873-32 on Susquehana Dr.;
- Install a vegetated channel on APN 33-884-12 and APN 33-884-13 on Jicarilla Dr.

In Phase 3B, two USFS parcels have been added. Associated improvements and APNs are as follows:

- Install a flared end section and vegetated channel on APN 80-092-03 on Susquehana Dr.; and
- Install vegetated channel at the end of Aravaipa St. on APN 80-050-02.
- Install a vegetated channel at the end of Ibache St on APN 80-050-02

Within the County ROW, the following modifications to improvements shown in the IES/MND are proposed:

- Install a fence section at the end of Susquehana Dr.
- Install a fence section at the end of Guadalupe St.
- Install a fence and at the end of Aravaipa St.
- .
- Construct curb from the first driveway on the north side of Nadowa (APN 33-874-01) onto Koyukon Drive.

- At the intersection of Tooch and Nadowa replace the existing 18" culverts and install rock inlets.
- Install a storm drain system that starts at the Nadowa and Tooch intersection and continues down Tooch to the first CTC parcel on the north side (APN 33-873-23) lot
- Install sediment traps at the southwest and southeast corners of Tooch and Nadowa.
- Install sediment trap and construct curb on the south side of Tooch Street from Susquehana to the culvert crossing located one lot west of the Susquehana intersection. Regrade the slope behind the curb and revegetate as needed.
- Install curb down both sides of Susquehana: on the west side between Nadowa and Tooch and on the east side from Nadowa to the intersection with Minniconjou.
- Install curb on the south side of Susquehana from Nadowa to Jicarilla. Regrade the slopes to the curb backing and revegetate as needed. Install a DI at the location of the existing grate (APN 033-882-05) and replace the 24" culvert.
- Remove and replace culverts at the intersection of Sesquehana and Aravaipa St. and install a grated inlet sediment trap at the inlet of each culvert. Install rock around the perimeter of the trap and regrade the channel to drain. Attach flared end sections to the outlets and a rock dissipater.
- Revegetate the eroding channel and the eroding slopes on the south side of Susquehana past the intersection with Aravaipa St. Construct a rock bowl surrounding a grated sediment trap at the inlet of the 18" culvert (approximately at APN 080-081-26). Replace the 18" culvert and install a flared end section at the outlet.
- Install a porous pavement swale at the end of the cul-de-sac at Sesquehana. In addition, construct a wood fence around the perimeter of the cul-de-sac.
- Install curb on northeast corner of the Pioneer Trail and Jicarilla intersection. The curb would continue approximately 200' down Jicarilla. At the low point of Jicarilla a sediment trap would be installed on the east side to capture additional sediment.
- At the northwest corner of Pioneer and Jicarilla a double sediment trap would be installed to capture road sand and debris. The slopes at the corners would be regraded into the curb backing and revegetated.
- Remove and replace the 15" and 18" culverts and install sediment traps with grated inlets at each of the culvert inlets at the corners of Aravaipa and Guadalupe and Aravaipa and Ibache. Install rock around the perimeter of each sediment trap and regrade the channels to drain.
- Install sediment traps at drainage inlets in the middle (approximate APN 080-010-06) and at the end of Aravaipa (APN 080-010-02) and connect to a storm drain system installed the length of Aravaipa.
- Install a porous pavement swale at the end of the cul-de-sac on Aravaipa. In addition, construct a wood fence around the perimeter of the cul-de-sac. The excess pavement beyond the end of the Aravaipa cul-de-sac would also be removed.
- Install a porous pavement swale and a gate or a fence at the end of Guadalupe.
- Construct curb on the south side of Ibache from APN 080-008-013 to the end of the cul-de-sac. At the end of the curb install a DI, with the outflow discharging into the meadow. At the point on the cul-de-sac curb where the runoff will discharge, construct a low profile vegetated swale to convey the water out into the meadow.

- o Install curb on the northern side of Pioneer Trail between Susquehana and Jicarilla that will end 800 feet west of the intersection with Jicarilla.
- o Revegetate the eroding slopes within the stretch of Pioneer Trail between Susquehana and Jicarilla

ENVIRONMENTAL ANALYSIS

Project Phase 3B modifications described above will not require any changes to the responses in the 1999 Initial Study Checklist, hence, no new significant effects are identified and mitigation measures are needed.

A willow flycatcher protocol survey in identified potential habitat will be conducted in spring of 2006, in the meadow north and east of the intersection of Jicarilla Drive and Susquehana Drive extending northeast to the Project boundary. According to the protocol, the two-part flycatcher survey will be scheduled as follows. One survey will take place between June 15 – 25. The second survey will take place either between June 1 – 14, or between June 26 – July 15. The biologist conducting the survey will make the determination of when to survey based on the weather (i.e. late spring snows and/or slow snowmelt will make the later survey more appropriate). A copy of the survey results would be submitted to the CTC. If flycatcher protocol surveys have been conducted and no willow flycatchers have been detected, operations may proceed during the breeding season (May 1 - August 31). If the flycatcher protocol survey determines that willow flycatchers are nesting in or adjacent to the project impact area, a consultation with CDFG will be necessary, and the probable restrictions would be:

- No ground or vegetation disturbing project activity within 300 feet of the habitat during the breeding season (May 1 - August 31).
- Any operations conducted within or adjacent to suitable willow flycatcher habitat shall not damage or destroy willows or other riparian shrubs.

Known nest locations in the Project vicinity for northern goshawk were identified through a search of the California Natural Diversity Database. A survey was conducted in 2005. No northern goshawk activity was found near the Project area. A copy of the survey results is attached. EDOT will contact the USFS LTBMU raptor biologist two weeks prior to the commencement of construction related activities to verify that no new nests have been identified in the vicinity. If any active nests are known within the area, consultation with USFS would be undertaken regarding regulation and timing of construction activities.

Since the 1999 approval of the Project IES/MND, the El Dorado County General Plan was legally challenged and set aside by the Sacramento Superior Court. To address the Court's findings, the County prepared a new General Plan, which was adopted on July 19, 2004. The County cannot implement a new General Plan until the Superior Court lifts the Writ of Mandate. The County anticipated that process to be complete by the end of 2004. However, subsequent to plan adoption, a referendum measure that would also affect implementation of the plan was filed with the County. That referendum, which appeared on a March 8, 2005, ballot, will ask county voters to either uphold or reject the Board's adoption of the new plan. As a result, the County voters approved the Board's adoption of the new plan.

As the following addendum to the CEQA Checklist explanation details, the Project is authorized and valid under the County General Plan and will not result in the significant increase in traffic or water consumption.

I. Land Use and Planning

- a) The determination of no impact under Land Use/Planning remains the same. However the following explanation is added to the original CEQA Checklist under Land Use and Planning.

El Dorado County's General Plan contains goals, objectives, and policies that guide growth and development within areas under the County's jurisdiction, including the project area. The 1996 General Plan was set-aside in September 1999 as a result of a determination by the Sacramento County Superior Court that, in certain respects, the County had not fully complied with CEQA in preparing the EIR and findings for the General Plan. A hearing was held on the form of the Writ to be issued, that included the scope of remedy to be imposed while the County worked to correct these CEQA violations. The court issued a Writ of Mandate that governs the County's land use decisions during the interim period between the issuance of the Writ and the completion of a new General Plan. The Project is authorized under the Writ in that it does not have the effect of allowing the commencement, expansion, or intensification of any new use on property; does not result in a significant increase in traffic or water consumption; and the Project approval and permitting falls within the purview of the Tahoe Regional Planning Agency.

VI. Transportation/Circulation

- b) The determination of "Potentially Significant Unless Mitigation Incorporation" for transportation/circulation from the Project IES/MND remains unchanged; however the following items satisfy requirements of the current CEQA Checklist for this topic:

In 1998, voters adopted Measure Y. Measure Y added several new policies in the Circulation Element of the General Plan. Specifically, traffic from residential development projects of five or more units must not result in level of service F or worse traffic congestion during weekday, peak-hour periods on any highway, road, interchange, or intersection in the unincorporated areas of the County. The Project is consistent with the provisions of Measure Y, since it is not a residential development project and will not permanently increase traffic congestion.

FINDINGS/CONCLUSIONS

Pursuant to CEQA Guidelines Section 15162, as applicable to an IES/MND, DOT draws the following conclusions regarding the proposed Phase 3B modifications:

- 1) The proposed Project will not result in substantial changes that would lead to the identification of new or previously unidentified significant environmental effects that require major revisions of the previous IES/MND.
- 2) There has been no substantial change with respect to the circumstances under which the Project is being undertaken that would require a major revision of the previous IES/MND due to the involvement of new significant environmental effects.
- 3) No new information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the IES/MND was adopted, shows that the Project will have one or more significant effects not discussed in the previous IES/MND. Furthermore, the mitigation measures adopted in the IES/MND remain the same.

Based on these findings, DOT has concluded that preparation of a subsequent IES/MND for the Project is unnecessary and that preparation of an Addendum is appropriate in accordance with CEQA Guidelines Section 15164. DOT accordingly approves this Addendum and the associated Project modifications.

11/29/05

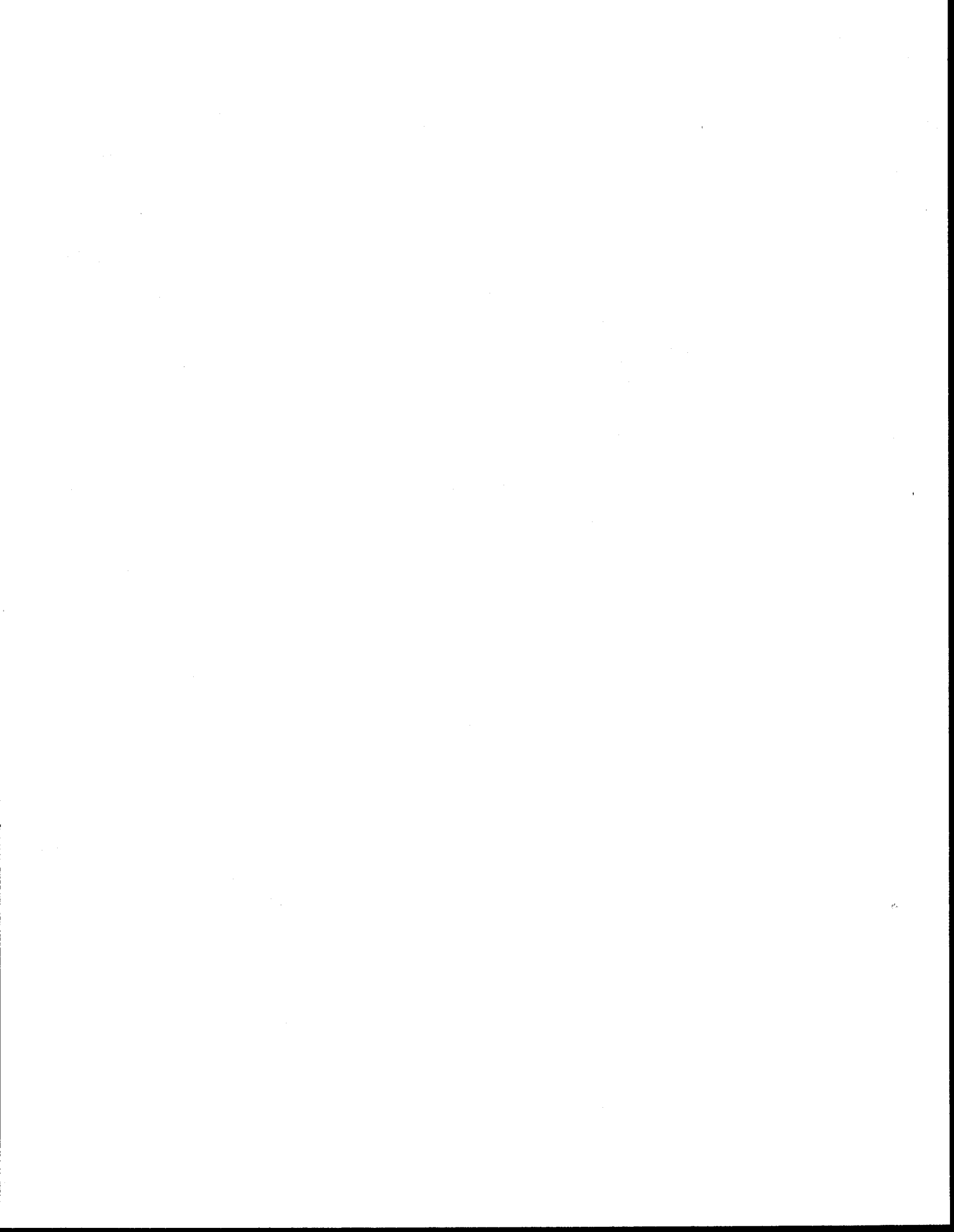
Date

Richard W. Smith

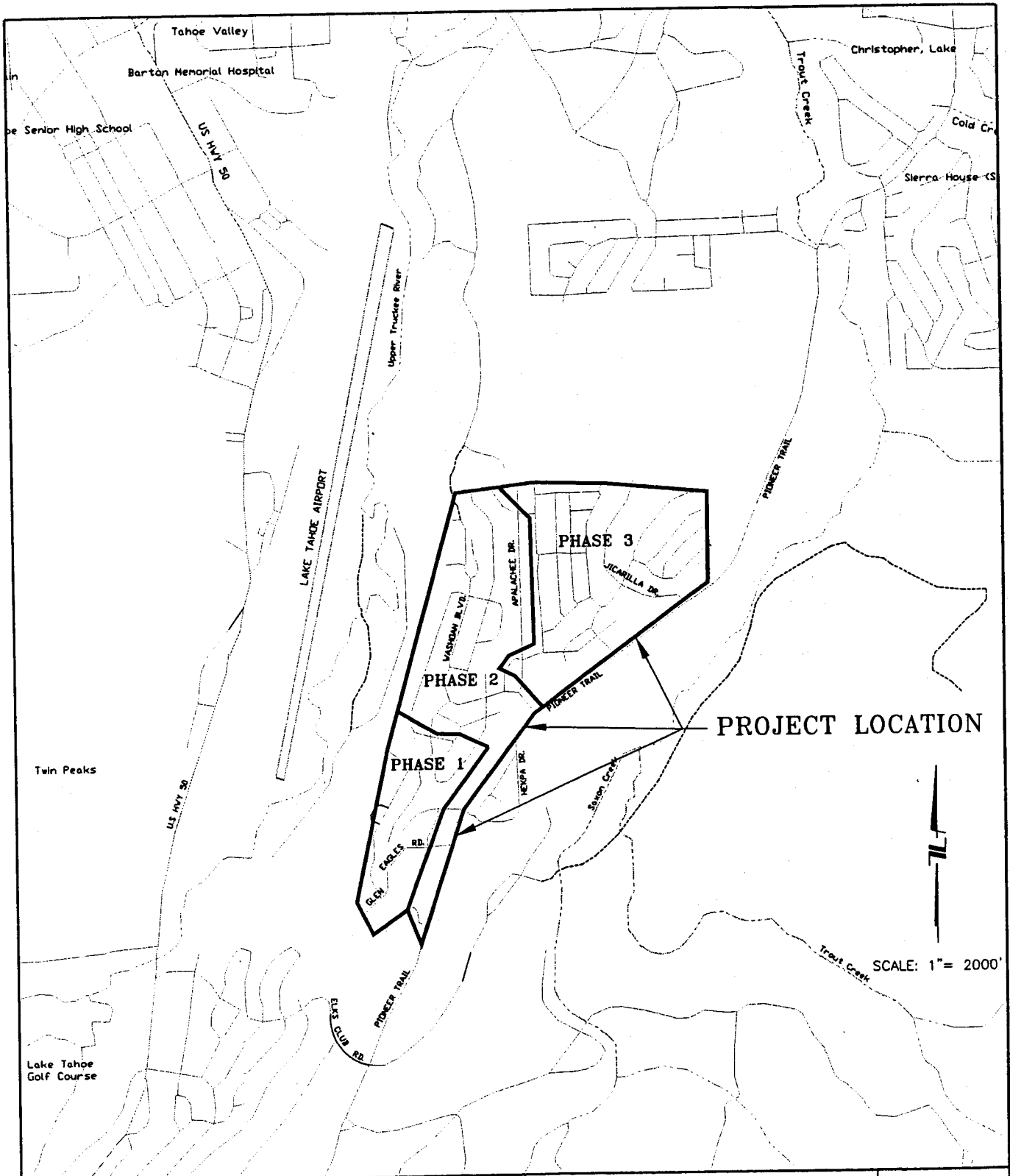
Department of Transportation
Representative

Director

Title



FIGURES



EL DORADO COUNTY
SOUTH LAKE TAHOE OFFICE



APALACHEE EROSION CONTROL PROJECT
ADDENDUM TO MITIGATED NEG. DEC.

FIGURE

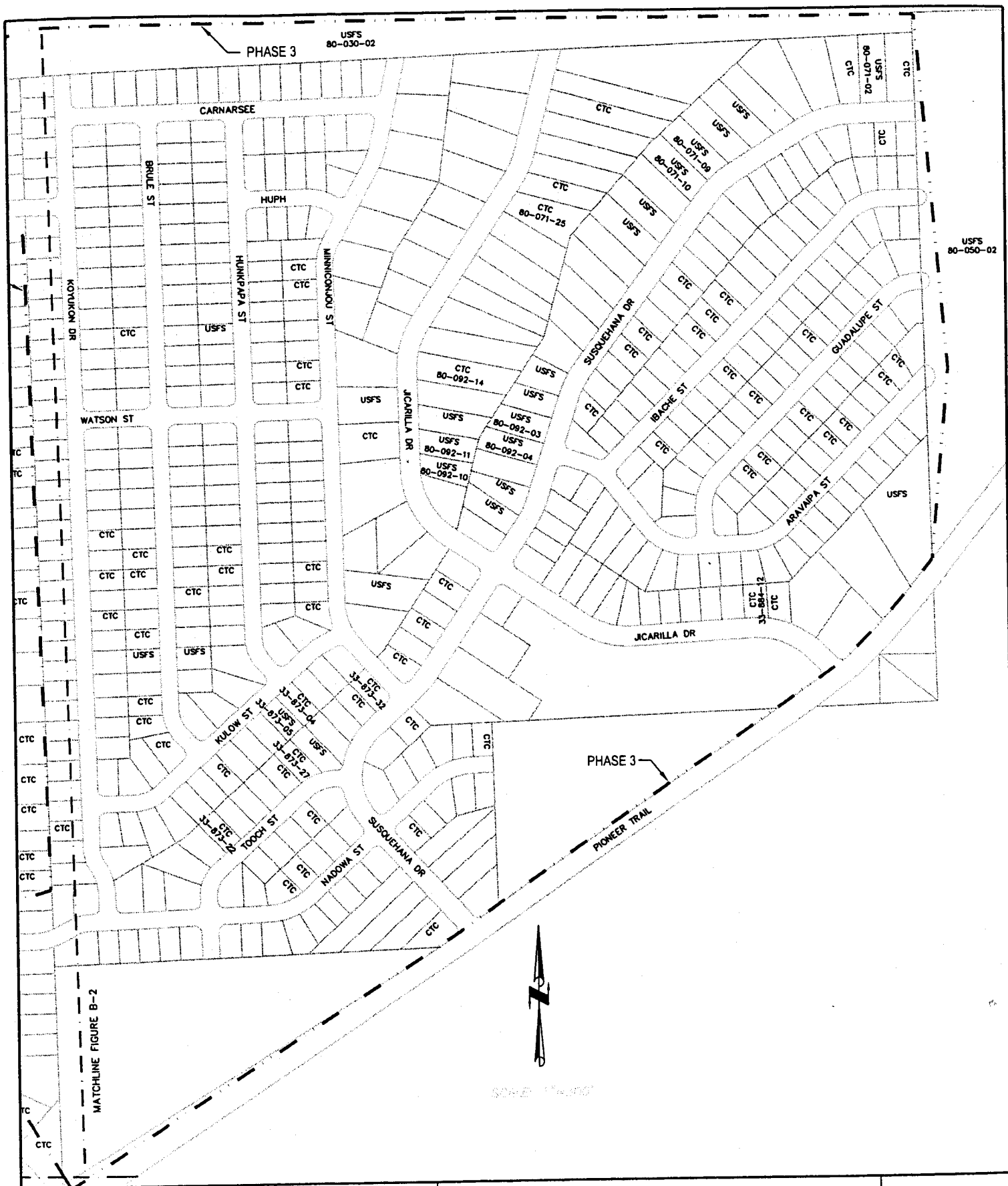
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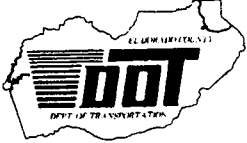
Location Map

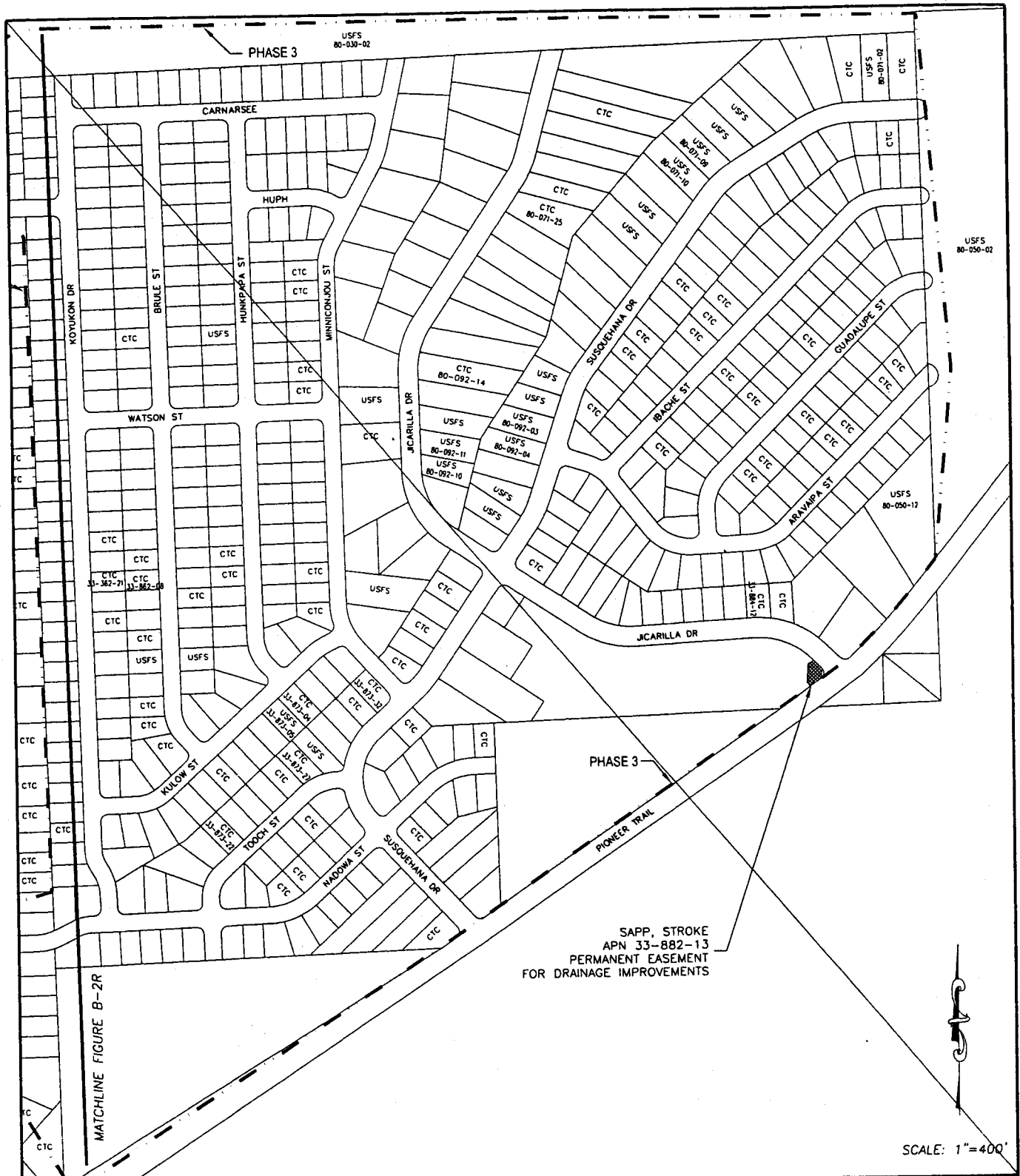
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PROJECT NO.: 95184/95185

BY: CMG



<p>EL DORADO COUNTY SOUTH LAKE TAHOE OFFICE</p> 	<p>APALACHEE EROSION CONTROL PROJECT CEQA - INITIAL STUDY Public Property and Right-Of-Way Acquisition Map</p>	<p>FIGURE B-3</p>
<p>DATE: 12/99 PROJECT NO.: 95154 BY: TCA</p>		



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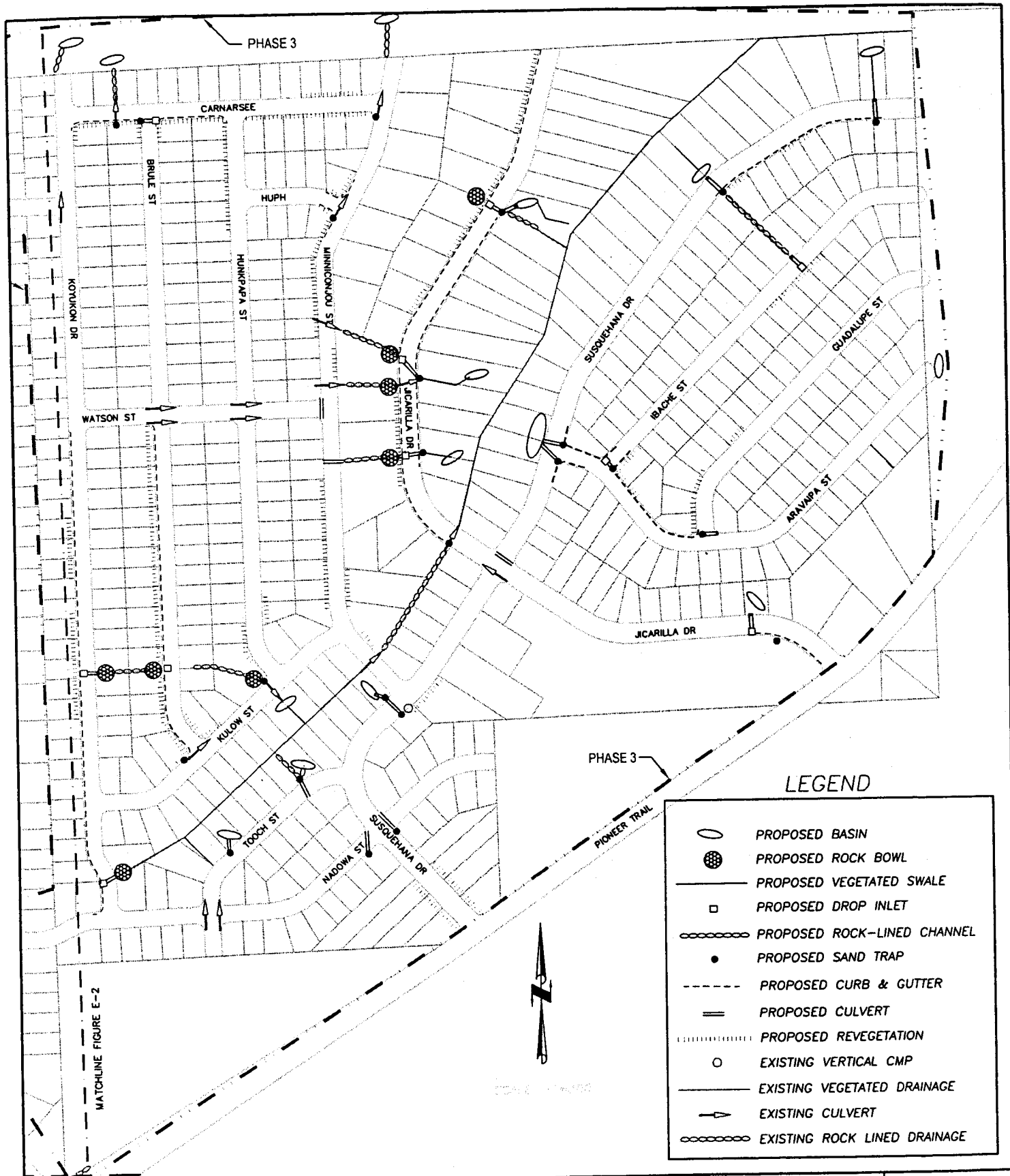
EL DORADO COUNTY
SOUTH LAKE TAHOE OFFICE



APALACHEE EROSION CONTROL PROJECT
ADDENDUM TO MITIGATED NEG DEC
Phase 3 Area
Revised Public Property and Right of Way Acquisition

FIGURE
B-3R

DATE: 10/05	PROJECT NO.: 95184	BY: DWK
-------------	--------------------	---------



LEGEND

	PROPOSED BASIN
	PROPOSED ROCK BOWL
	PROPOSED VEGETATED SWALE
	PROPOSED DROP INLET
	PROPOSED ROCK-LINED CHANNEL
	PROPOSED SAND TRAP
	PROPOSED CURB & GUTTER
	PROPOSED CULVERT
	PROPOSED REVEGETATION
	EXISTING VERTICAL CMP
	EXISTING VEGETATED DRAINAGE
	EXISTING CULVERT
	EXISTING ROCK LINED DRAINAGE

EL DORADO COUNTY
SOUTH LAKE TAHOE OFFICE



APALACHEE EROSION CONTROL PROJECT

CEQA - INITIAL STUDY
Proposed Improvements

FIGURE

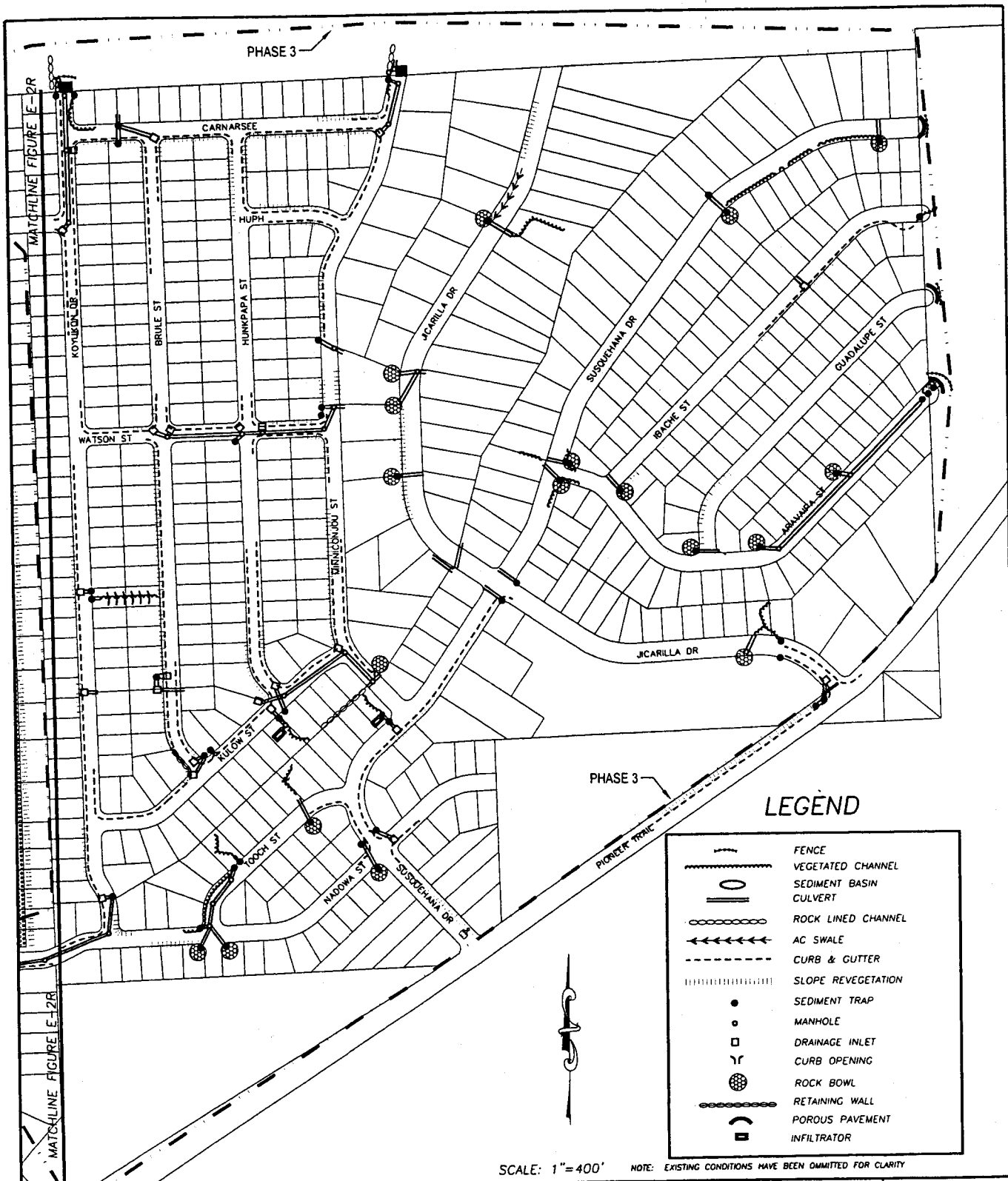
E-3

DATE: 12/99

PROJECT NO.: 95154

BY: TCA

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LEGEND

	FENCE
	VEGETATED CHANNEL
	SEDIMENT BASIN
	CULVERT
	ROCK LINED CHANNEL
	AC SWALE
	CURB & GUTTER
	SLOPE REVEGETATION
	SEDIMENT TRAP
	MANHOLE
	DRAINAGE INLET
	CURB OPENING
	ROCK BOWL
	RETAINING WALL
	POROUS PAVEMENT
	INFILTRATOR

SCALE: 1"=400' NOTE: EXISTING CONDITIONS HAVE BEEN OMITTED FOR CLARITY

EL DORADO COUNTY
SOUTH LAKE TAHOE OFFICE



APALACHEE EROSION CONTROL PROJECT
ADDENDUM TO MITIGATED NEG DEC
Phase 3 Area
Revised Proposed Improvements

FIGURE
E-3R

DATE: 10/05 PROJECT NO.: 95184 BY: DWK

APPENDICES

Table 1 Special Status Wildlife Species Recorded in the General Apalachee 3B Project Area*

Scientific Name	Common Name	Federal Status	State Status	Other	Habitat Requirements	Sensitive period	Potential for occurrence in Project area	Results of Survey
Federally Listed and Federal Candidate Species								
<i>Haliaeetus leucocephalus</i>	bald eagle	FT	CE		Migratory. Nesting and wintering ocean shore, lake margins and rivers. Most nests within 1 mi of water in large old growth or dominant live tree with open branches, especially Ponderosa pine. Birds commonly in water.	N/A	Unlikely. Known nests are on the shore of Lake Tahoe. Little or no appropriate habitat in project area	No survey conducted
<i>Martes pennanti pacifica</i>	Pacific fisher	FC	CSC	FS	Large areas of intermediate to large tree stages of coniferous forests and deciduous riparian areas with high degree of closure. Cavities in snags, logs and rocks for cover and denning.	N/A	Unlikely to be near project area due to high human density.	No survey conducted
<i>Oncorhynchus clarki henshawi</i>	Lahontan cutthroat trout	FT			Historically, accessible cold waters of the Lahontan Basin and in a wide variety of water temps and conditions. Requires gravel riffles in streams for spawning.	March-June	Potential habitat present with reintroduction but encountering the species is very unlikely.	No survey conducted
California Listed Species								
<i>Empidonax traillii</i>	willow flycatcher		CE		Nests in thickets of low dense willows on edge of wet meadows, ponds or backwater 2000-8000 ft elevation	May - Aug	Potential habitat present.	Protocol survey scheduled for summer of 2006.
<i>Gulo gulo</i>	California wolverine		CT	FS, CFP	Wide variety of high elevation habitats near water. Uses caves, logs, burrows for den. Hunts in open areas. Can travel far.	N/A	Unlikely to be near project area due to high human density.	No survey conducted
<i>Riparia riparia</i>	bank swallow		CT		Colonial nester in vertical banks or cliffs with fine-textured sandy soils near streams, rivers, lakes, ocean to dig nest hole	Feb - May	Very unlikely. No appropriate habitat in project area.	No survey conducted
Other Special Status Species								
<i>Accipiter gentilis</i>	northern goshawk		CSC	FS	Uses old nests in conifer forests on north slopes near water in red fir, lodgepole pine, Jeffrey pine communities. Preys on birds	Mar - Aug	Appropriate habitat present adjacent to project area. May forage but not expected to nest in project area due to high human density.	Not encountered, no nests detected. Nearest known nest sites are over 0.5 mi away to the northwest and to the southeast.
<i>Aquila chrysaetos</i>	golden eagle		CSC		rolling foothill min areas, sage-juniper flats, deserts. Usually nests in cliff-walled canyons or large trees in open areas.	Feb - Aug	Unlikely to be present. Habitat of project area very marginal for this species	No survey conducted
<i>Capnia lacustris</i>	Lake Tahoe benthic stone fly		CSC		Endemic to Lake Tahoe at depths of 95-400 ft	summer	Not present. Project not in the Lake	No survey conducted
<i>Cypseloides niger</i>	black swift		CSC		Breeds in small colonies on cliffs behind or adjacent to waterfalls in deep canyons and sea bluffs, forages widely	May - Sept	Very unlikely, no appropriate habitat	No survey conducted
<i>Helisoma newberryi</i>	Great Basin rams-horn		FS		Larger lakes and slow rivers, lar spring sources and spring-fed creeks	spring/summer	Very unlikely, no appropriate habitat.	No survey conducted
<i>Lepus americanus tahoensis</i>	Sierra Nevada snowshoe hare		CSC		Boreal riparian areas and young conifer thickets of Sierra Nevada	N/A	Appropriate habitat present adjacent to project area but not expected due to high human density and presence of large dogs.	No survey conducted

Table 1 Special Status Wildlife Species Recorded in the General Apalachee 3B Project Area*

Scientific Name	Common Name	Federal Status	State Status	Other	Habitat Requirements	Sensitive period	Potential for occurrence in Project area	Results of Survey
<i>Lepus townsendii</i>	western white-tailed jackrabbit		CSC		sagebrush, subalpine conifer, juniper, shrub and grassland; open areas with scattered shrubs	N/A	Very unlikely. Potential habitat present but has not been recorded since 1915	No survey conducted
<i>Martes americana</i>	American pine marten			FS	Mixed conifer forest / old growth with over 40% crown closure and snag cavities for dens	N/A	Appropriate habitat present adjacent to project area but not expected due to high human density.	No survey conducted
<i>Pandion haliaetus</i>	osprey		CSC		nests on shores, bays, freshwater lakes, and large streams in treetop or snag within 15 miles of good fish producing body of water.	N/A	Possible Project is within 15 miles of Lake Tahoe and appropriate trees are present.	No survey conducted
<i>Speyeria noxomis carsonensis</i>	Carson Valley silverspot				isolated colonies in wet meadows along the eastern base of the Carson Range	spring/summer	Unlikely, project probably out of range	No survey conducted
<i>Taxidea taxus</i>	American badger		CSC		Dry open areas in shrubland, forest, and herbaceous habitat with friable soils for den. Preys on burrowing rodents.	N/A	Potentially present. Some appropriate habitat in and adjacent to project area.	No survey conducted
<i>Xanthocephalus xanthocephalus</i>	yellow-headed blackbird				Nests in freshwater emergent wetland vegetation and deep water, often along borders of lakes or ponds where large insects are abundant	spring/summer	Unlikely, insufficient habitat in project area	No survey conducted

Status Legend

Federal Status
 FT = Federally listed Threatened
 FC = Candidate for federal listing

California Status
 CT = California Threatened
 CE = California Endangered
 CSC = California Species of Special Concern
 CFP = California Fully Protected

Other Status
 FS - Forest Service Sensitive

* A "9-quad search" of CNDDB records was conducted for the USGS project quad, South Lake Tahoe. CNDDB records were for Meeks Bay, Emerald Bay, Echo Lake, South Lake Tahoe, Freel Peak, Minden and Woodfords. The two quads to the north and northwest are in Nevada and are not tracked by CNDDB

Apalachee 3B

Northern goshawk (*Accipiter gentiles*)
FSC (nesting), USFS-SS, CSC (nesting), and TRPA

Northern goshawk is a raptor of mid to high elevation mature coniferous forest throughout the Sierra Nevada, and is a year-round resident species in the Lake Tahoe Basin. Goshawks also occur in the foothills during winter, in northern deserts with pinon-juniper woodland, and in lower elevation riparian habitats. Optimal nesting habitat for goshawk is dense forest with a closed canopy (>50%) for protection and thermal cover, and open spaces to allow maneuverability in flight. Nesting territories are often characterized by dense stands of large diameter trees with interconnected canopies, along drainages. Nests trees are usually in the densest part of stands, on north slopes near water. Goshawk reproductive season begins by mid-February in northern California. They prey mostly on birds, using snags and dead treetops as observation platforms. Northern goshawks are susceptible to human disturbance such as recreational activities and urbanization.

The Tahoe Regional Planning Agency (TRPA) has designated twelve areas as northern goshawk population sites within the Lake Tahoe Basin. The TRPA prohibits operating activities within 0.5 mile of active goshawk nests between March 1 and August 31. There are no TRPA population sites within 0.5 mile of the Apalachee 3B Project area.

The U.S. Forest Service Lake Tahoe Basin Management Unit (LTBMU) regulates activities within 0.25 -0.5 mile of known active nests, depending on nature of activity, from February 15 – September 15. The LTBMU designated 300 acres as Protected Activity Centers (PACs) around all known northern goshawk-nesting areas. The Project area is not located within a PAC.

There are three California Natural Diversity Database (CNDDDB) records of northern goshawk nests within a ten-mile radius of the Project area, occurrence numbers 125, 126, and 127. The last update of these occurrences in the CNDDDB was 1995, with last known activity at the nests in 1981.

Occurrence 125 is along Angora Creek, about 3.5 miles west of Apalachee 3B Project boundary. Two young were fledged there in 1981.

Occurrence 126 (Figure 1) is about 0.5-mile southeast of the Apalachee 3B Project area. Per CNDDDB, this nest was active in 1981, but was abandoned because of land use changes.

Occurrence 127 (Figure 2) is approximately 500 feet northwest of the Lake Tahoe Airport, about 1.25 miles northwest of Apalachee 3B Project boundary. That nest fledged three young in 1981.

In June and August of 2005 ENTRIX, Inc. biologists consulted with the LTBMU avian biologist Victor Lyon about goshawks in the Apalachee 3B Project. Mr. Lyon provided the following information.

There are several known goshawk territories in the vicinity of the Apalachee 3B Project area. An USFS PAC is located east of Pioneer Trail, outside of the Apalachee 3B Project boundary. The nearest known recently active nest in this PAC was approximately 0.95 mile east of Guadalupe St. in 2003. Another nest 2.13 miles east of Pioneer Trail was active in 2003.

Results

In June and July of 2005, ENTRIX, Inc. biologists assessed the Project area for potential goshawk nesting habitat. Although there is marginal potential habitat in the form of forested parcels or limited strips within the project boundaries, they are not dense, the canopy cover is not closed, and existing human activity in the area is high. The Apalachee 3B Project area does not contain sufficient appropriate nesting habitat for northern goshawk and they are not expected to nest within the project boundaries, although they may forage there.

No northern goshawk was detected during the biological surveys conducted in June and August of 2005. Activities related to the Apalachee 3B erosion control project is not expected to affect northern goshawk, as no known, recently active nests are located within 0.5 mile of the planned Project activities. However, two weeks in advance of any Project construction activities scheduled between the dates of February 15 and September 15, EDOT should contact the USFS LTBMU raptor biologist regarding any newly active northern goshawk nest sites within 0.5 miles of the Project area limits. If any active nests are known within the area, consultation with USFS should be undertaken regarding regulation and timing of construction activities.

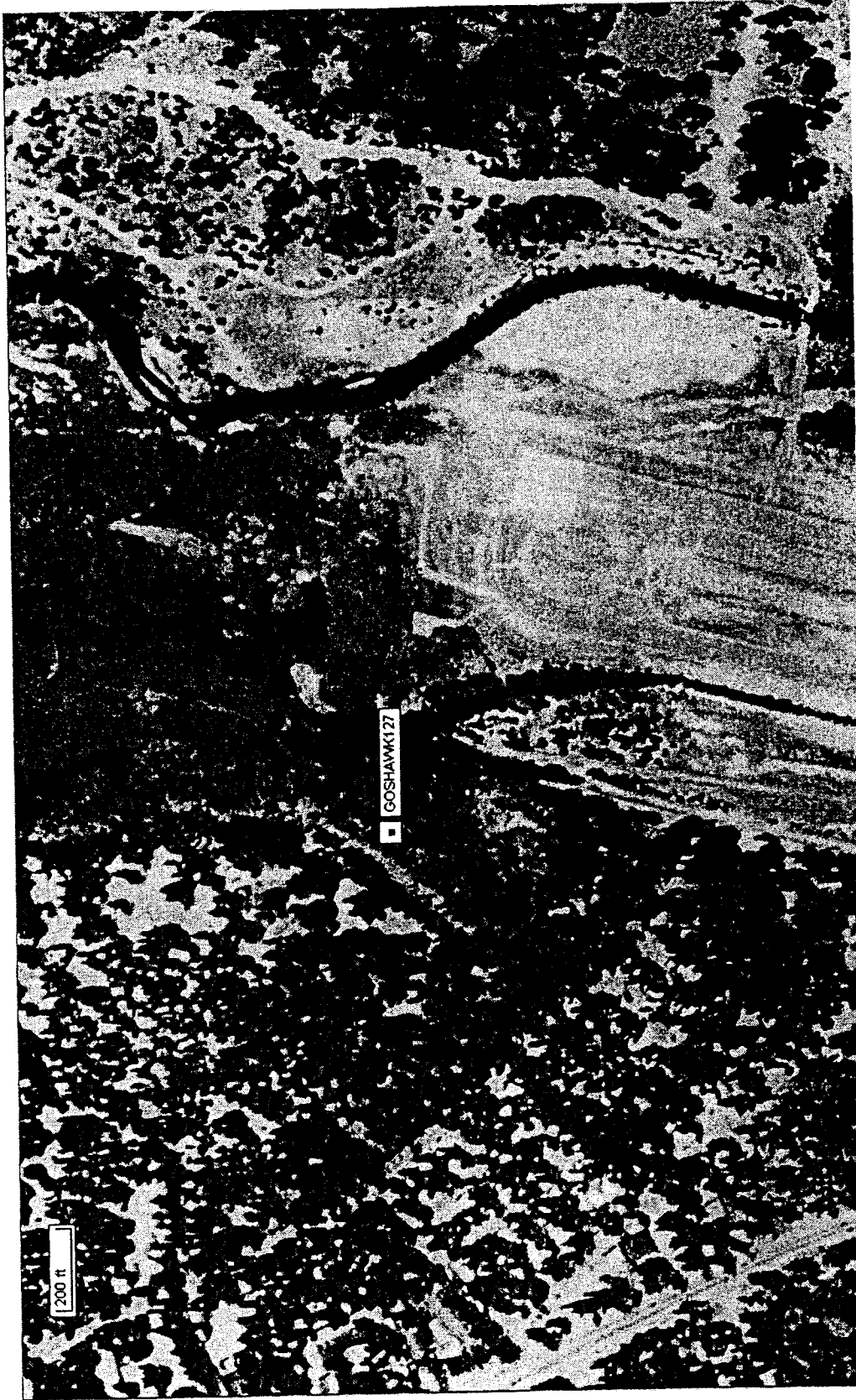
FIGURES



El Dorado County Department of Transportation
Apalachee Erosion Control Project Phase 3B
Figure 1 Northern Goshawk CNDDDB Nest Occurrence 126

GOSHA WK 126

CNDDDB Nest Occurrence Location



EI Dorado County Department of Transportation
Apalachee Erosion Control Project Phase 3B

Figure 2 Northern Goshawk CNDDDB Nest Occurrence 127

GOSHAWK127

.. CNDDDB Nest Occurrence Location

EXHIBIT B-1
REVISED ESTIMATED PROJECT SCHEDULE AND BUDGET
Apalachee

1. Project Budget:

Budget Category	Budget
Design and Administration	\$ 689,466
Construction	\$ 2,424,293
Plant Establishment	\$ 0
Monitoring	\$ 10,000
Contingency	\$ 142,541
TOTAL	\$ 3,266,300

2. Project Schedule

Final Design	February 2007
Construction	May 2007 – August 2008
Irrigation and Plant Establishment	August 2007 – October 2010
Initial Monitoring Report	December 2008
Final Monitoring Report	December 2010

Previously Authorized Conservancy Funding:

CTA 99022	\$ 40,000
CTA 02007	\$1,766,300

Other Funding Contributions :

Forest Service	\$1,289,129
Bureau of Reclamation	\$ 200,000
Proposed SNPLMA Round 7	\$1,514,623

TOTAL ESTIMATED PROJECT BUDGET: \$6,310,052

Exhibit G-1
SIGN GUIDELINES
(Proposition 50)

Authority:

All projects funded by the "The Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002" (**2002 Clean Water Act**) must include a posted sign acknowledging the source of the funds following guidelines developed by the Resources Agency.

Purpose:

To inform the public that the 2002 Bond Acts that they voted for are providing public benefits throughout the State and that their Bond dollars are at work and helping make California a better place to live. This message will reinforce the need for additional funding for similar projects.

Universal Logo:

All signs will contain a universal logo that will be equated with the 2002 Bond Act statewide. The logo will be on a template, available through the internet (www.resources.ca.gov)

Tier I and Tier II:

For the purpose of the sign guidelines only, all projects are divided into Tier I and Tier II projects:

Tier I: Projects using less than \$750,000 of Bond Act Funds.

Tier II: Projects using more than \$750,000 of Bond Act Funds and/or projects situated in areas of high public visibility. (such as near a freeway intersection).

(Archaeological sites are excluded)

Minimum Requirements: Tier I

The universal logo must be mounted in an area to maximize visibility and durability. The logo must be a minimum of 2'x2'. There is no maximum size. Exceptions are permitted in the case of trails, historical sites and other areas where these dimensions may not be appreciate. The logo must be posted no later than project completion.

A larger sign that includes the logo, other wording and acknowledgements may be posted. There is no maximum number of signs.

Minimum Requirements: Tier II

Two signs are required per project, one during construction and one upon completion.

Sign while under construction:

The sign will use a white background and will contain the logo and the following language:

(Description of Project)

Another project to improve California's water quality watersheds, environment, water quality etc.) funded by the 2002 Clean Water Bond –

Arnold Schwarzenegger, Governor

Recommended size of signs while under construction: minimum of 4.5'x 7.5'.

Project completion Sign

Upon completion of all Tier II projects, a sign will be posted that includes the Bond Logo. The logo on the sign must be a minimum of 2'x 2' and include the following wording:

(Description of Projects)

Another project to improve California water quality (watersheds, environment, water quality etc.) funded by the 2002 Clean Water Bond – (in large font)

Optional Language: The Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002

Director of State Department

Mike Chrisman, Secretary for Resources

Arnold Schwarzenegger, Governor

The name of the director of the logo agency or other governing body may also be added. The sign may also include the names (and/or logos) of other partners, organizations, individuals and elected representatives as deemed appropriate by those involved in the project.

Sign Construction:

All material used shall be durable and able to resist the elements and graffiti. State Parks and Cal Trans standards can be used as a guide for gauge of metal, quality of points used, mounting specifications, etc.

Sign Duration:

The goal is to have project signs in place for a lengthy period of time, preferably a minimum of 2 years for Tier I project signs and 4 years minimum for Tier II projects signs.

Sign Cost:

The cost of the sign(s) is an eligible project cost. Application should consider potential replacement cost as well. More durable signage encouraged; e.g. bronze memorials mounted in stone at trailheads, on refurbished historical monuments and buildings etc.

Appropriateness of Signs:

For projects where the required sign may be out of place (such as some refurbished cultural and historic monuments and buildings), the project officer/grants administrator in consultation with the application may authorize a sign that is tasteful and appropriate to the project in question. Alternate signage must be immediately recognized as a clean Water Bond sign.

Sign on State Highways:

Signs placed within the state highway right-of-way may require a Caltrans encroachment permit. Contact your local Caltrans District Office early in the planning phases for more information.