

Sierra Nevada Conservancy-Progress Report

**Sierra Nevada Conservancy Grant Program
Safe Drinking Water, Water Quality and Supply, Flood Control
River and Coastal Protection Act of 2008 (Proposition 84)**

Grantee Name: City of Auburn Fire Department
Project title: American River Canyon Shaded Fuel Break
SNC Reference Number: SNC #567 **Submittal Date:** 6/16/2014
Report Preparer: Mark D'Ambrogi **Phone #:** 530-823-4211

Check one:

6-Month Progress Report
 Final Report

6-Month Progress Reports should reflect the previous six months. Final Reports should reflect the entire grant period.

A. Progress Report Summary:

All ground work has been completed using allocated funds for the project. This includes hand crew work for vegetation removal, chipping of removed products, mapping of project area, purchase of power equipment for the project, staff coordination and oversight of project, and grant administration. Meetings were conducted prior to the start of the project with stakeholders and a post project meeting was conducted to review outcomes of the project and evaluate future approaches to similar projects and maintenance of the current project.

B. Deliverables or Outcomes completed during this Reporting Period or Milestones Achieved:

Approximately 51 acres received treatment in some form or another and it is estimated that 40% of the fuel loading has been reduced in the project area.

C. Challenges or Opportunities Encountered:

This project is very unique in that it requires involvement from federal, state, local government, and private vendors. It is not common to see such a number of agencies work collaboratively together. The first challenge was to identify and predict the working output of the crews and the private chipping vendor. The intent was to have crews cut and stack materials while the chipping vendor comes behind and chips all cut materials. After a couple of days of initial implementation it was found that for every 1-2 crew days of cutting, the chipping vendor would take 4-5 hours of chipping. To be the most efficient, it was beneficial to schedule crew days and chip days based on the estimated amount of fuels to be chipped. Some of the factors identified that presented challenges include areas where the chipper can and cannot access; this requires more time for crews to haul cut

materials, types and amounts of vegetation require certain pile techniques that allow easy feeding to the chipper, and working in a horizontal “ribbon” fashion verses a vertical geographic area proved most efficient in the use of all resources. Some areas of the project provided challenges for the chipper. In some instances the chipper was unable to access project areas due to terrain and vegetation. In many areas there were older “service” roads created by the dam project from the 1950’s or so but were not maintained and inaccessible for the chipper. To make these roads accessible additional vegetation and some ground disturbance work would be needed. This was not in the scope of the project at this time. In such areas either hauling of vegetation to the chipper was done or pile burning when appropriate was performed. This added additional time for crew work. Towards the end of the ground work for the project, there was a change in the personnel for Bureau of Reclamation (BOR). BOR plays a significant role in this and other fuel reduction projects and new personnel were acclimated to the project as well as the working relationships between the stakeholder agencies.

D. Unanticipated Successes Achieved:

Because of the mild winter season and lack of large and numerous fires, the Cal Fire crews were readily available and worked somewhat continuously all year long. This expedited the Work Plan Schedule and much of the ground work was completed 6-8 months ahead of schedule.

E. Compare Actual Costs to Budgeted Costs:

| PROJECT BUDGET CATEGORIES | Budgeted SNC Dollars | Actual Dollars |
|----------------------------------|-----------------------------|-----------------------|
| Contractor- Cal Fire CDCR Crews | \$20,340.00 | \$20,110.44 |
| Contractor- Chipping Vendor | \$114,990.00 | \$114,990.00 |
| Project Equipment/Supplies | \$6,200.00 | \$5,194.07 |
| Administrative Expenses | \$5,160.00 | \$5160.00 |
| | | |
| GRAND TOTAL | \$146,690.00 | \$145,454.51 |

Not all budgeted dollars were used for this project. This most significant “less dollars” used occurred in the project equipment category because equipment purchased was done so at a greatly reduced cost than what was estimated in developing the budget.

Agency contributions (In-kind) were actually higher than originally anticipated:

CA. State Parks- portable sanitation facilities and maintenance, staff time on-site, and equipment use; total estimated \$7,650.00.

Bureau of Reclamation- staff time for field review and oversight; total estimated \$1,200.00.

Auburn Fire- personnel time in crew coordination and field work/oversight; \$18,000.00.

F. Do you have information to report on the project-specific Performance Measures for your project?

Number and Diversity of People Reached

Through various medians; newspaper, radio, site postings, and meetings, the community was kept informed of the status and progress of the project. An "Information Release" was sent to various local print media and radio stations. This resulted in a published article in the local paper of which has a circulation of approximately 30,000 on published days. Two radio interviews were conducted that cover Placer County, Nevada County, and El Dorado County. Both radio stations also utilized web based access as well as air waves. Meetings included the monthly Greater Auburn Area Fire Safe Council, Fire Alliance, Bi-monthly Auburn City Council Meetings, and a pre-project meeting and a post-project meeting with the various stakeholders and agencies directly involved with the project. We were very fortunate on two (2) occasions to "showcase" the project through a coordinated legislative and dignitary tour event coordinated by the Sierra Nevada Conservancy staff.

Public agencies; AFD, Cal Fire, State Parks, and U.S. Bureau of Reclamation, all of which have diverse concerns in the development and implementation of the project met expectations that include:

AFD- The protection of life and property to the community.

Cal Fire- The reduction of fuel loading to potentially increase the probability of success during fire suppression activities.

State Parks- Enhancement of the wildlife habitat and recreational opportunities.

U.S. Bureau of Reclamation- Preserving public lands for their intended use.

Dollar Value of Resources Leveraged

The estimate of matching dollars to SNC dollars spent was for every one SNC dollar, \$.80 would be spent by the collaborating agencies. The end result indicated an amount of \$.83, slightly higher in actual matching than originally estimated.

Number of New, Improved, or Preserved Economic Activities

During the project implementation the area was posted to any potential recreation users informing them of the project, potential hazards, and caution use in the area. Many of the public agency staff; State Parks and AFD, were constantly contacted by citizens who visited the project area and informed staff of how please they were with the work that was being done and that in addition to a fire prevention measure the project added security for recreational users in this area. It is calculated that approximately 200 persons use the immediate project area weekly for recreation; this does not include special events that take place of which range in the 400 plus per event.

Acres of Land Improved or Restored

Approximately 51 acres were treated throughout the project area. All areas that were treated were completely treated meaning no products were left for later removal or other. All areas where fuel reduction occurred incorporated hand work

that cut and staked materials and a tracked chipper that came behind and chipped and scattered materials back onto the treated land surface. Although it was estimated that 60 acres would be treated for this project, the density of the fuels were as such that required additional hand crew time and chipping services than originally estimated. In essence, once into certain areas of the project it was found that fuel densities were greater than anticipated and therefore more time was needed to achieve a reasonable desired outcome. There were several areas; Marina, Rio Camino, and Tamarroo drainages that have significant fuel loading and the desired level of reduction could not be achieved within the funding of the project. A majority of the brush model was removed leaving canopy cover at greater than 70% of which the desired result is 50%. These areas have been identified for future project funding through programs such as the SNC.

G. Were there any other relevant materials produced under the terms of this Agreement that are not a part of the budgeted deliverables?

AFD, State Parks, and US BOR have developed a “Work Plan” for 2013/2014 that identifies agency available resources and target areas for maintenance on the American River Canyon Shaded Fuel Break. This will become an annual work plan and be reviewed each year and adjusted as needed to sustain the viability of the plan.

H. Next Steps:

The next steps are to implement and develop annually the Work Plan to attain viability of the project. The three main stakeholder agencies; AFD, State Parks, and BOR, have continued to secure minimal funding sources for annual maintenance. This in addition to other funding sources such as the Greater Auburn Area Fire Safe Council “Project Canyon Safe Foundation” allows opportunity for the public/private partnership in keeping the project viable.

Capacity-Building Results and Collaboration and Cooperation with Stakeholders:

This project achievement was directly a result of the collaborative effort on multiple government agencies and the private citizens and organizations of the community. The American River Canyon Shaded Fuel Break is a well-known “item” and more importantly its value to the community in fire protection, watershed enhancement, cultural preservation, and recreational enhancement. For the first time since the initial development of the American River Canyon Shaded Fuel Break over ten years ago, the multi-level government agencies; AFD, Cal Fire, State Parks, and BOR have partnered up with several community neighborhoods and the Greater Auburn Area Fire Safe Council, in identifying and understanding the value of such a project and how collectively it can be enhanced and maintained in the future.



MEDIA RELEASE

CONTACT: Mark D' Ambrogi
Fire Chief
(530) 823-4211 Ext 172

RELEASE
DATE: November 2, 2012

Today work began on a significant portion of the American River Canyon Shaded Fuel Break on U.S. Bureau of Reclamation Lands; Auburn State Recreation Area, below the City of Auburn. Crews will be cutting, hauling, and chipping various vegetation fuels in an effort to reduce the catastrophic destruction of wildfire and to create added protection to our community, recreation area, cultural resources, and pristine watershed.

The project will cover an area of approximately 60 acres from Robie Point where the 2010 Project Canyon Safe Community Event occurred, past the 2011 Project Canyon Safe Community Event in the Overlook Area, to Portland Avenue, all on U.S. Bureau of Reclamation Lands.

Funding for this project is made possible by a grant awarded by the Sierra Nevada Conservancy to the City of Auburn and will make a substantial improvement to our community wildfire protection. This is a multi-agency collaborative project with the U.S. Bureau of Reclamation, California State Parks, Cal Fire, the City of Auburn, and local fuels reduction company Bushwackers Inc. The Sierra Nevada Conservancy has awarded over \$146,000.00 towards this project while the collaborative agencies will contribute various services to bring the project total to over \$268,000.00.

For the next several months hand crews with chainsaws and chippers will be operating in the project area several days during the Monday through Friday week. Although trails are not scheduled to be closed, recreational use may be impacted by downed vegetation, equipment on trails and crews conducting work with power and motorized equipment. Please use extreme cautions in these areas, alternative routes are recommended during fuel reduction operations.

While this is a significant contribution to the American River Canyon Shaded Fuel Break residents are urged to continue to create and maintain "defensible space" by removing brush, downed tree limbs, limb up tree branches 8-10 feet above the ground, keep roof areas free and clear of overhanging tree branches as well as leaves and needles, and remove dried grasses around structures prior to the annual heightened time of wildfire conditions. "Whatever an individual does to protect their own home also protects the community".

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Auburn Journal

currently **43°F**
Overcast

tomorrow **High 45°F**
Low 30°F

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7
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Work begins on \$268,000 shaded fuel break project in Auburn

Effort spans 60 acres from Robie Point to Portland Avenue

By: Jon Schultz, Journal Staff Writer



Shortly after first getting wind of the Robbers Fire, Foresthill Fire Chief Luana Dowling drove around trying to find it, only to see it sweeping up a canyon side that led to her brother's home atop the ridge.

"I realized that one of our shaded fuel breaks was at the top of that ridge, and it was going to get tested very, very hard," Dowling said.

That evening, she drove up there to the edge of the fire, where fire engines were able to engage the blaze because of the 300-foot buffer zone created by the shaded fuel break, she said. Her brother's home was safe from the fire, she added.

Shaded fuel breaks proved crucial in combating the Robbers Fire this summer, Dowling said, and Auburn Fire Chief Mark D'Ambrogi said the project that began near Robie Point this month will similarly be key to combating potential fires in the future.

A shaded fuel break is an area where vegetation is removed to help slow the spread of wildfire and give firefighters more of a chance to combat the flames safely, D'Ambrogi said. The area is not entirely cleared; instead of having tree canopies entirely shade the area, people standing in the canyon should be able to look up and see patches of sky – hence "shaded," he said.

On Nov. 2, work began on a significant portion of the American River Canyon Shaded Fuel Break, and for the next several months crews will be cutting, hauling and chipping vegetation fuels on about 60 acres from Robie Point to Portland Avenue, according to the Auburn Fire Department.

AdChoices ▶ "This particular (project) ... targets what I'm considering the highest hazard within our community," D'Ambrogi said.

The project will cost more than \$268,000, with more than \$146,000 coming from a Sierra Nevada Conservancy grant, while the collaborating agencies will contribute services to cover the rest, he said.

The joint effort by the U.S. Bureau of Reclamation, California State Parks, Cal Fire, City of Auburn and Auburn-based fuels reduction company Bushwackers, Inc. is targeted for completion in six to eight months, D'Ambrogi said.

"Over the years there have been some fuel reductions in and out of the area. However, like any project if you don't maintain it, it loses its integrity," he said. "So we do have some areas that perhaps were treated at one time but really need to be retreated. ... Then we have some areas that have never seen any treatment at all – areas dense with vegetation."

Crews will work to remove "ladder fuels," or the brush that creates a step ladder between grasses and trees, D'Ambrogi said.

Auburn Tree Service

www.LyonsTrees.com

Tree Trimming & Removal, Stump Rem. 24 Hr Emergency Service Available



"The shaded fuel break is a reduction project, but it does not and it is not intended to stop wildfire," he said. "It is intended to reduce the intensity, perhaps slow it down, because with shaded fuel breaks and using fire suppression resources, you can be more successful."

At this time, no trail closures have been scheduled, but recreational use may be affected by downed vegetation, equipment on trails and crews working with machinery, D'Ambrogi said.

Because a powerful chipper and chainsaws will be used, equestrian riders should proceed with caution, and be mindful of the loud noises and how their horses could react, he said. Alternative routes are recommended during fuel reduction operations, he added.

Although the project will significantly heighten the ability to prevent wildfires from spreading in that area, D'Ambrogi urges residents to create their own "defensible space" by removing brush and downed tree limbs, pruning up tree branches 8 to 10 feet above ground, keeping roof areas clear of overhanging branches, leaves and needles and removing dried grasses near structures.

Dowling's brother created a defensible space at his home, and not only did it help save it from the Robbers Fire, firefighters were also able to use that property for a safety area, Dowling said.

"Their neighbor's home was the one home lost in the fire," she said. "And that neighbor had no defensible space."

Jon Schultz can be reached at jons@goldcountrymedia.com. Follow him on Twitter @Jon_AJNews

Keywords:

American River Canyon Shaded Fuel Break robie point auburn

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 **SEND STORY IDEAS**
 **SEND CORRECTIONS**
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Add a comment...



Cherie Holm · Top Commenter · Self Critic at Working at Living One Moment at a Time

Nice to see some of our SRA fee/tax is being used locally...homeowners must get proactive and take responsibility for their own homes defensible space...it really is a no brainer....it baffles me that folks do not maintain defensible space around their homes when they live in a forested environment.

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**Sierra Nevada Conservancy
Grant #567**

**Stakeholder Meeting
Wednesday September 19, 2012
0900 hours City of Auburn**

Areas to Review

Introductions (All)

Project Overview

(Map)
Location
General overview of work to be performed
Performance period
Prescription and mitigation/conditions

Current Status

Agreement fully executed
RFP out; chipping services & ground work
Need to purchase items:
 Portable sanitation unit
 Composite markers

Stakeholders- Roles, Responsibilities, and concerns/Issues

Auburn Fire

Administer grant
Procurement of items and services
Coordinate and monitor work
Coordinate and communicate with allied agencies and GAAFSC

Cal Fire

Provide crews- 80 crew days in grant
Perform work

Other-

Digest of Laws with Vendors?

State Parks

Assessment of work areas; pre and post?
Identify restrictions, special circumstances, events
Public notice; signs posted in work areas?
Sanitation maintenance
Other-

Bureau of Reclamation

Assessment of work areas; pre and post?
Identify restrictions, special circumstances, events
Other-

What Needs to be Done to Get Started

Mark Project Area(s)
Who & When
Safety Training?
With who and when
Schedule Crews
Cal Fire?
Contract with Vendor
Auburn Fire

Other Areas for Discussion

AMERICAN RIVER CANYON SHADED FUEL BREAK

2012



SIERRA NEVADA
CONSERVANCY



Greater Auburn Area Fire Safe Council

Serving the Communities of:

Auburn City
North Auburn
Newcastle
Penryn
Ophir
Bowman

AMERICAN RIVER CANYON SHADED FUEL BREAK

What is it?

A prescribed vegetation reduction program where fuels have been modified in an effort to reduce wildfire destruction. The width of a shaded fuel break is usually 100 to 300 feet depending on the site. This is a carefully planned thinning of dense vegetation so fire does not easily move from the ground into the overhead tree canopy. A shaded fuel break is not the removal of all vegetation in a given area; it is specifically “re-arranging” the fuel loading and therefore reducing wildfire intensity. Fire suppression resources can utilize a shaded fuel break to suppress wildfires of which may increase the probability of success during fire suppression activities and provide added firefighter safety. Any fuel break by itself will not stop a wildfire but used in combination with fire suppression resources may reduce the destruction of wildfire to our community, recreational, cultural, and watershed resources.

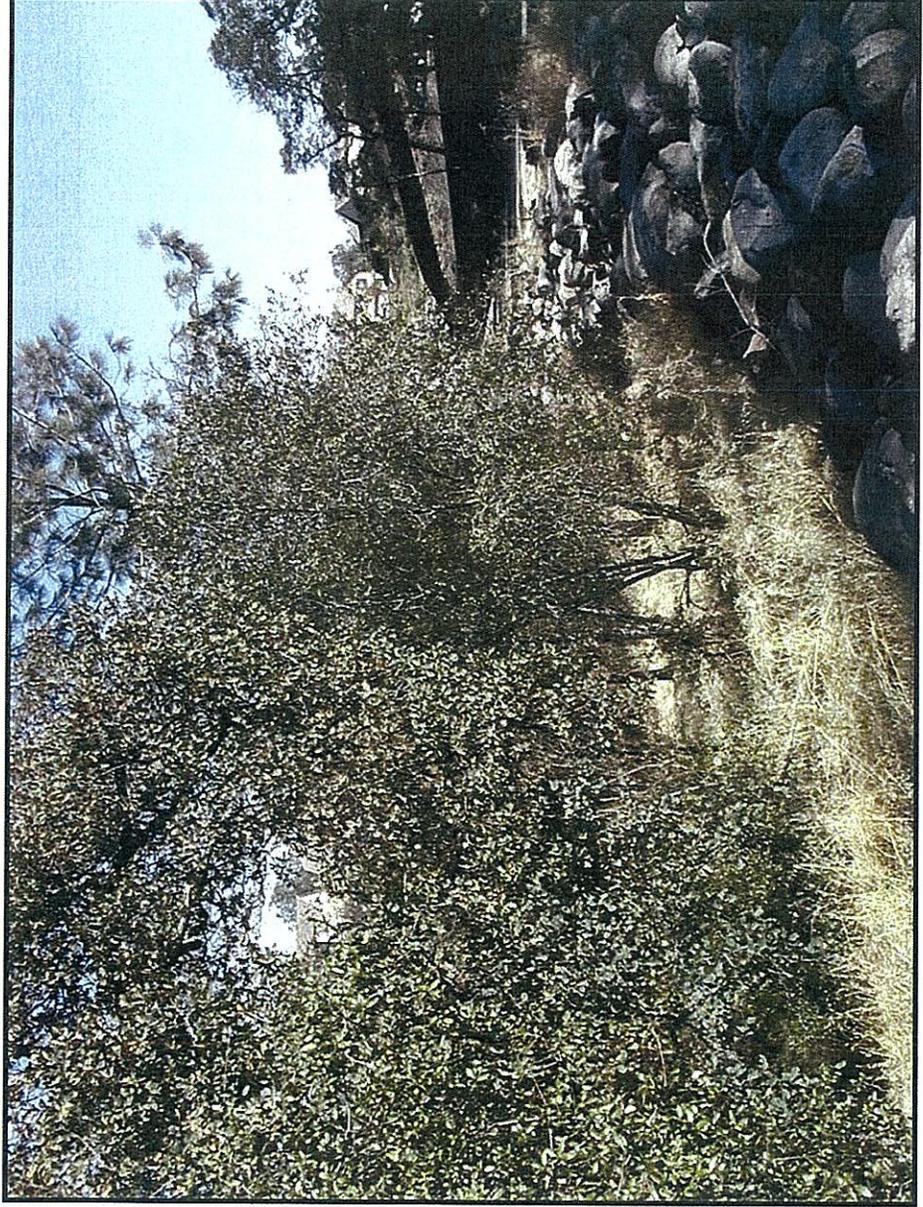
Purpose

The purpose of implementation and maintenance of a project such as a shaded fuel break can be considered a fire prevention/management tool that may promote awareness, mitigation, and assist in fire suppression activities in the event of a wildfire. The objective is to reduce, modify, and manage fuels within designated areas that may enhance mitigation efforts in the event of a wildfire situation.

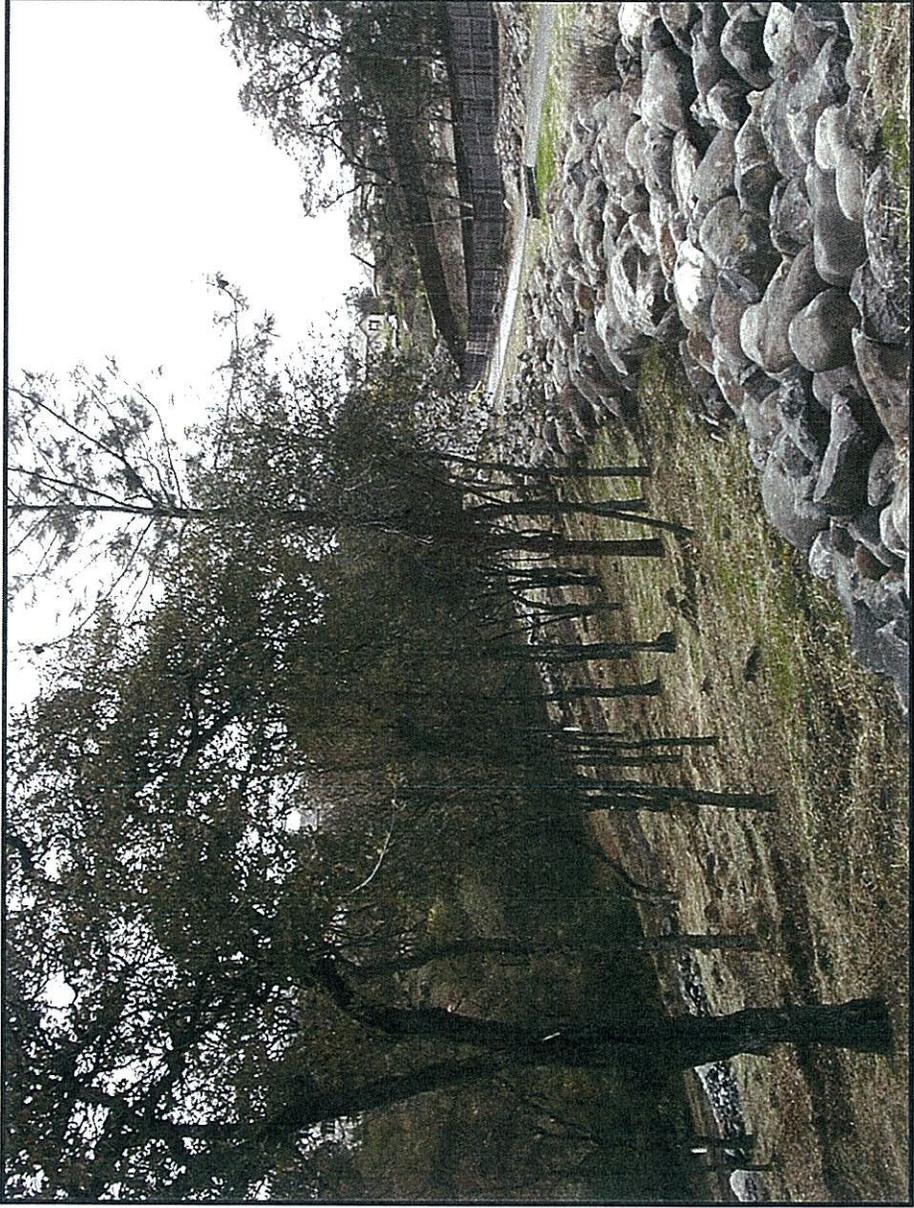
The goal is to protect human life, public and private property, by practicing fuel management strategies that promote the preservation, protection, and restoration of recreational resources, cultural resources, and watershed attributes.



Before



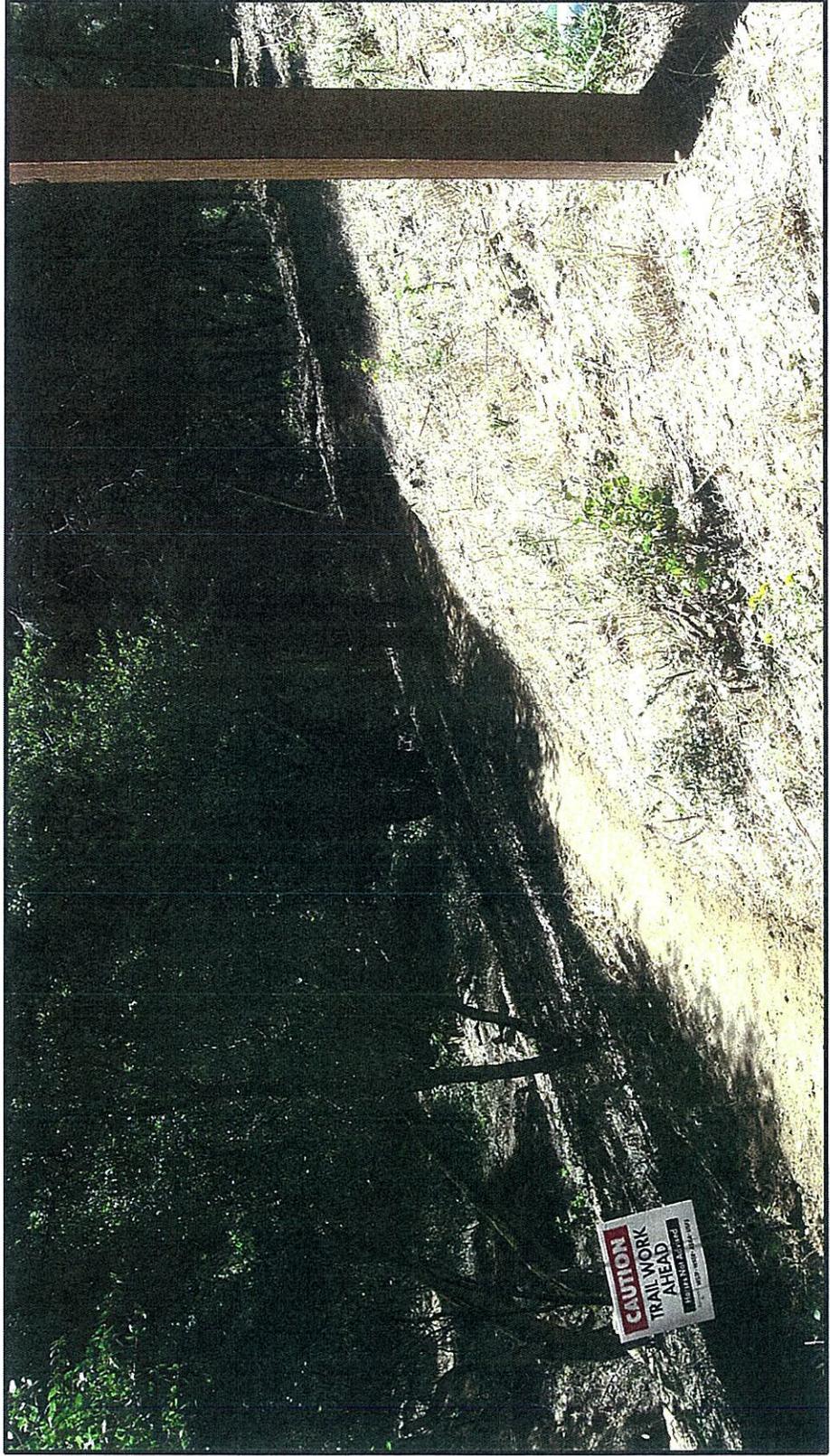
After



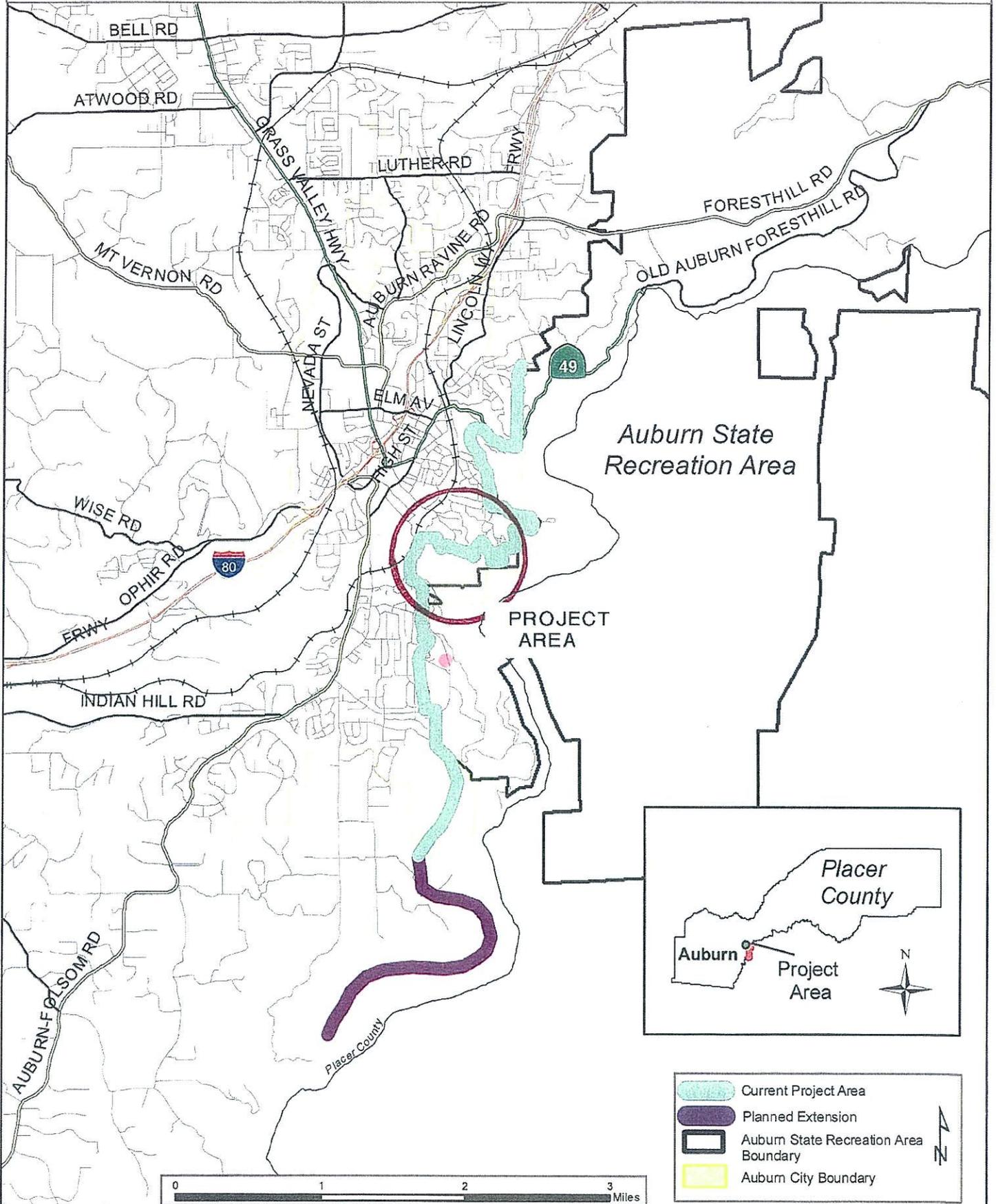
Before



After

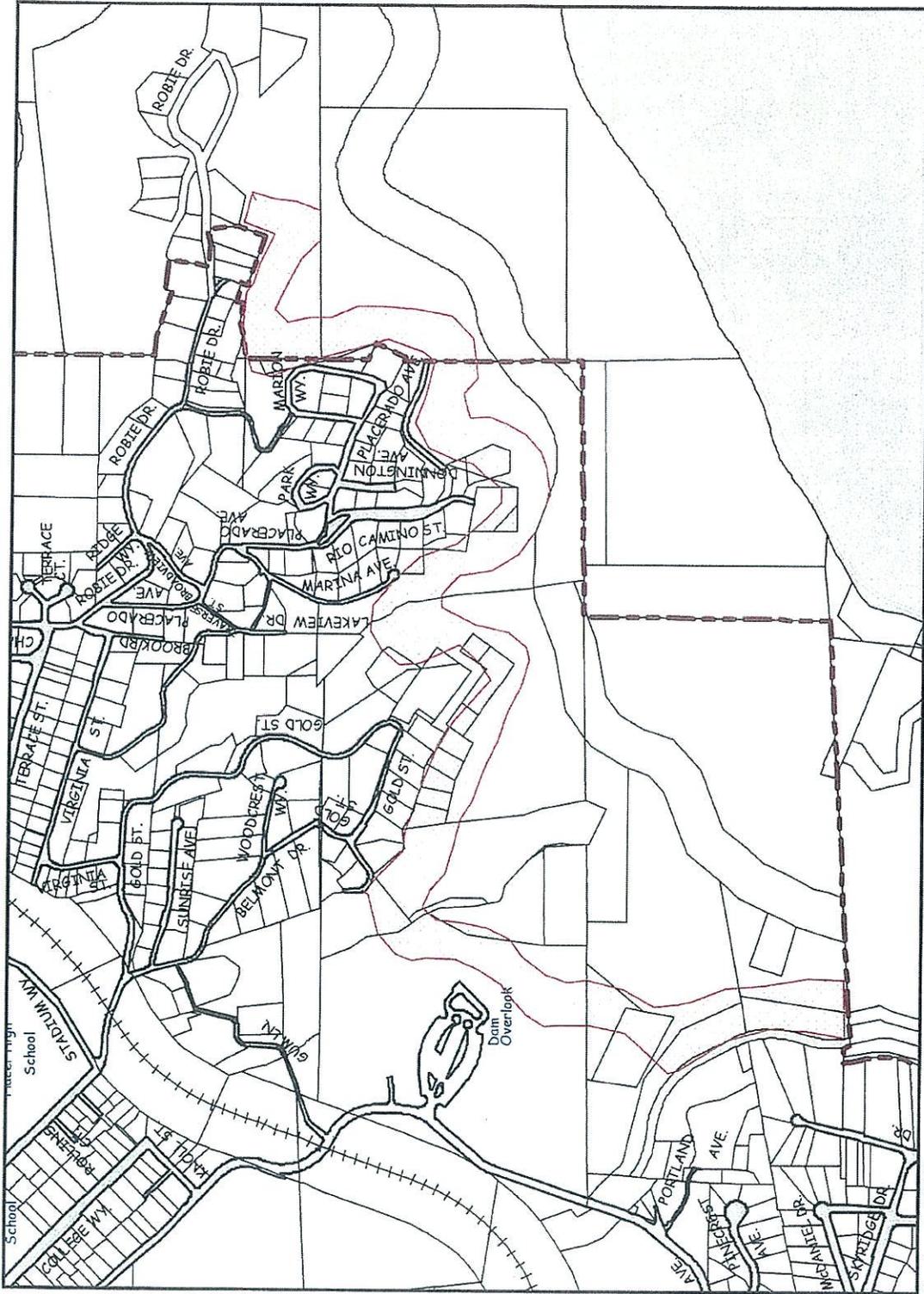


Auburn Shaded Fuel Break Project



| | |
|--|---------------------------------------|
| | Current Project Area |
| | Planned Extension |
| | Auburn State Recreation Area Boundary |
| | Auburn City Boundary |

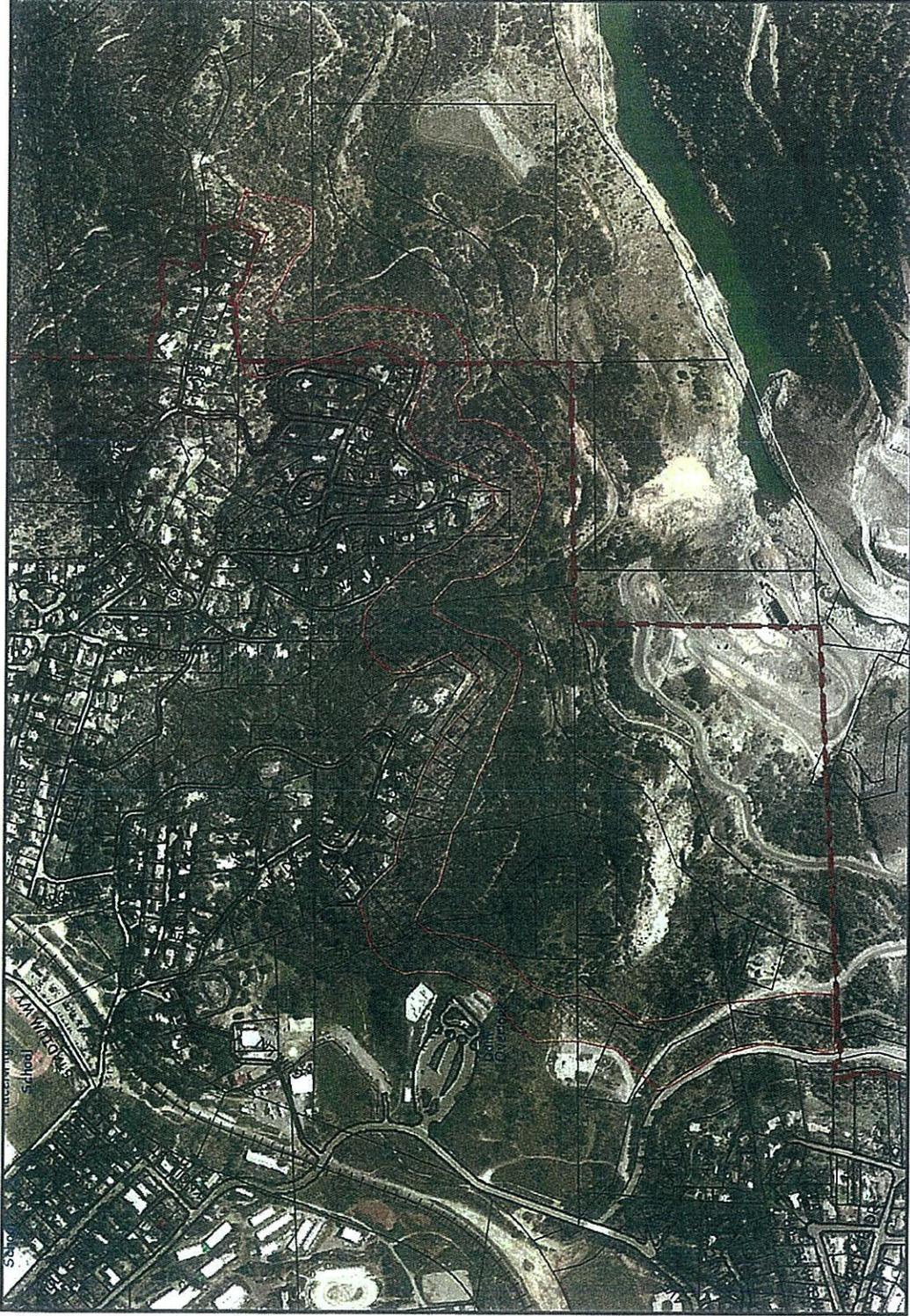
American River Canyon Shaded Fuel
Proposed Project Area



North ↑

Scale: 1:7000

**American River Canyon Shaded Fuel
Proposed Project Area**



Scale: 1:7000

North ↑

AMERICAN RIVER CANYON SHADED FUEL BREAK

2013



SIERRA NEVADA
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AMERICAN RIVER CANYON SHADED FUEL BREAK

What is it?

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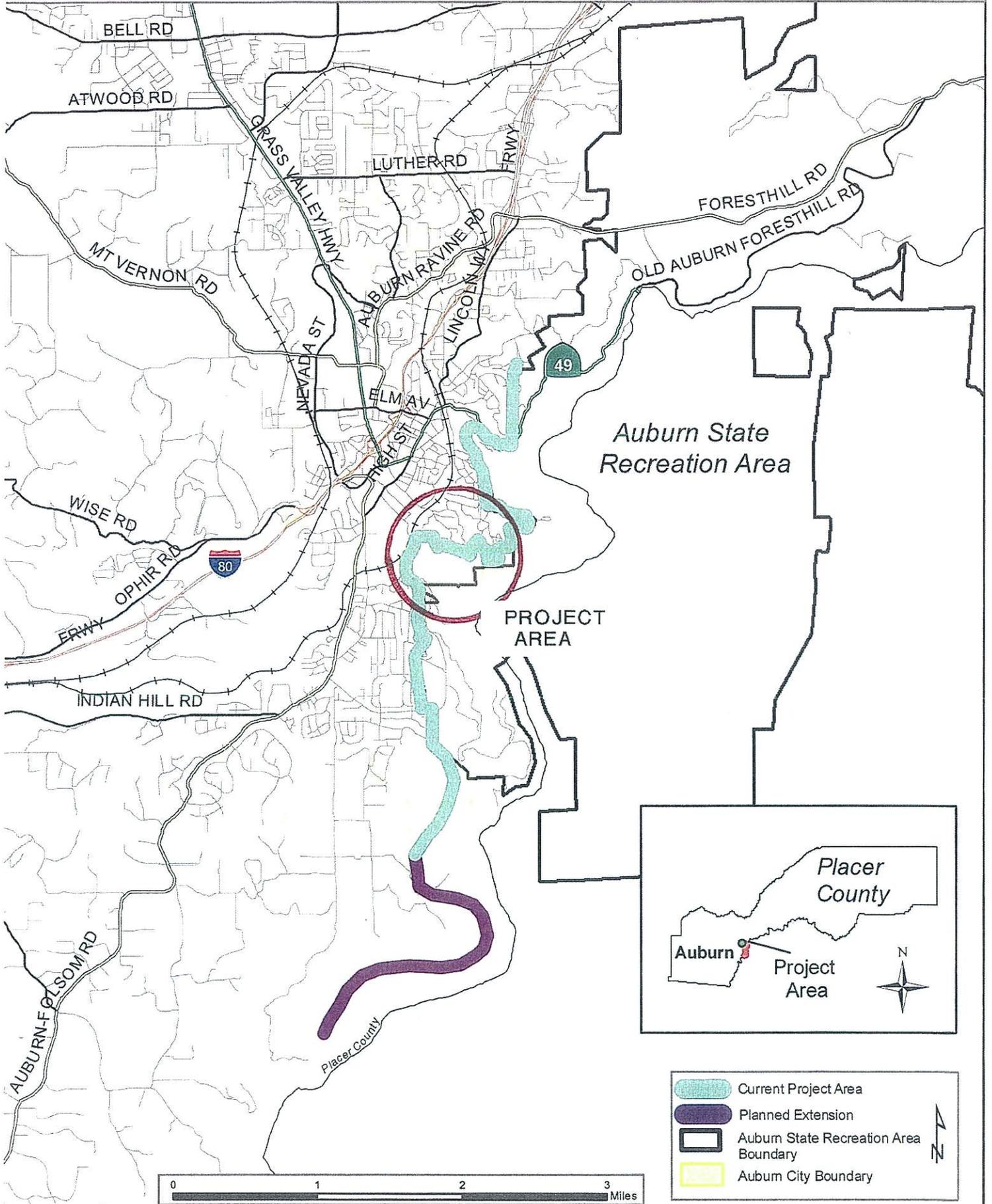
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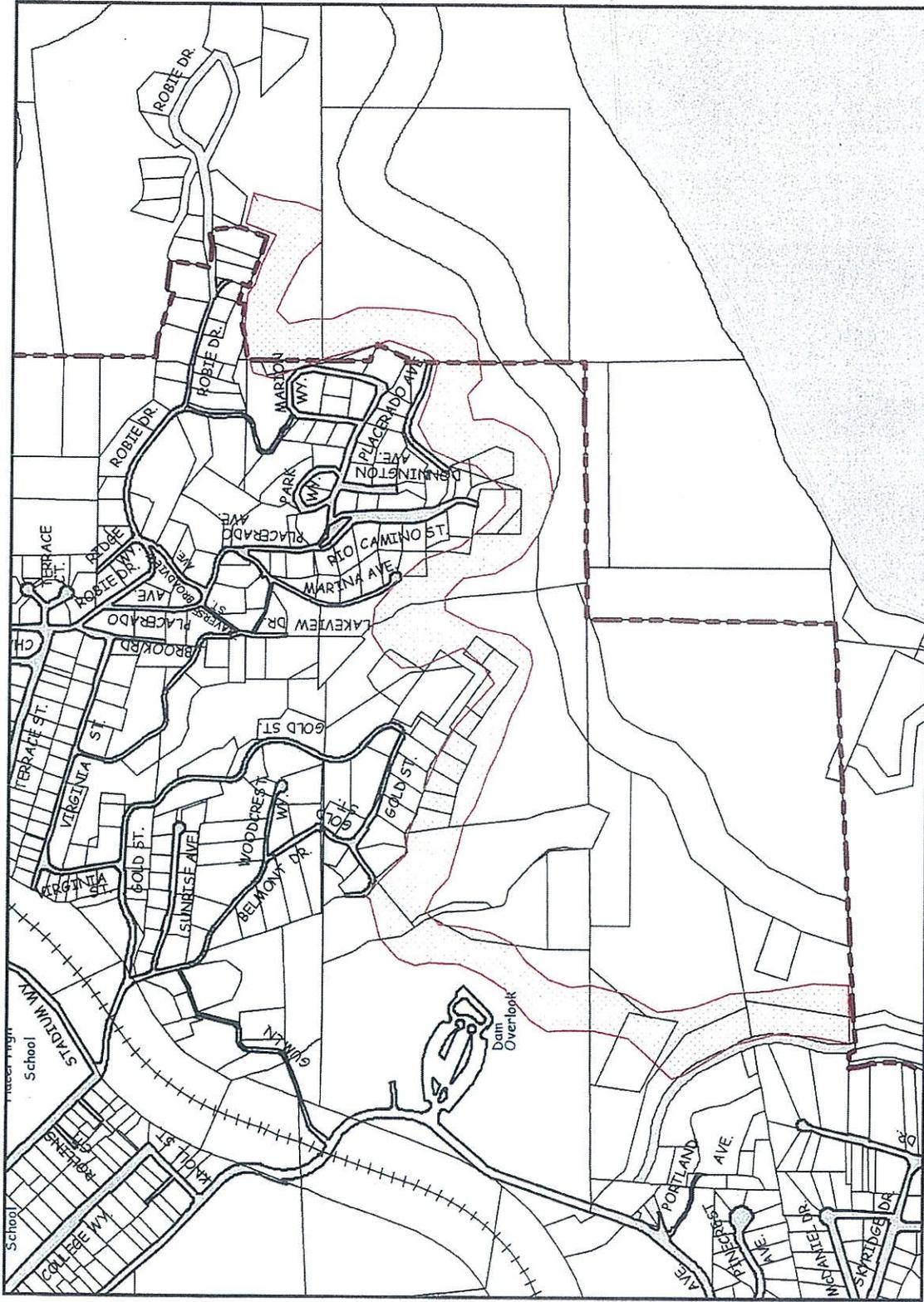
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Auburn Shaded Fuel Break Project



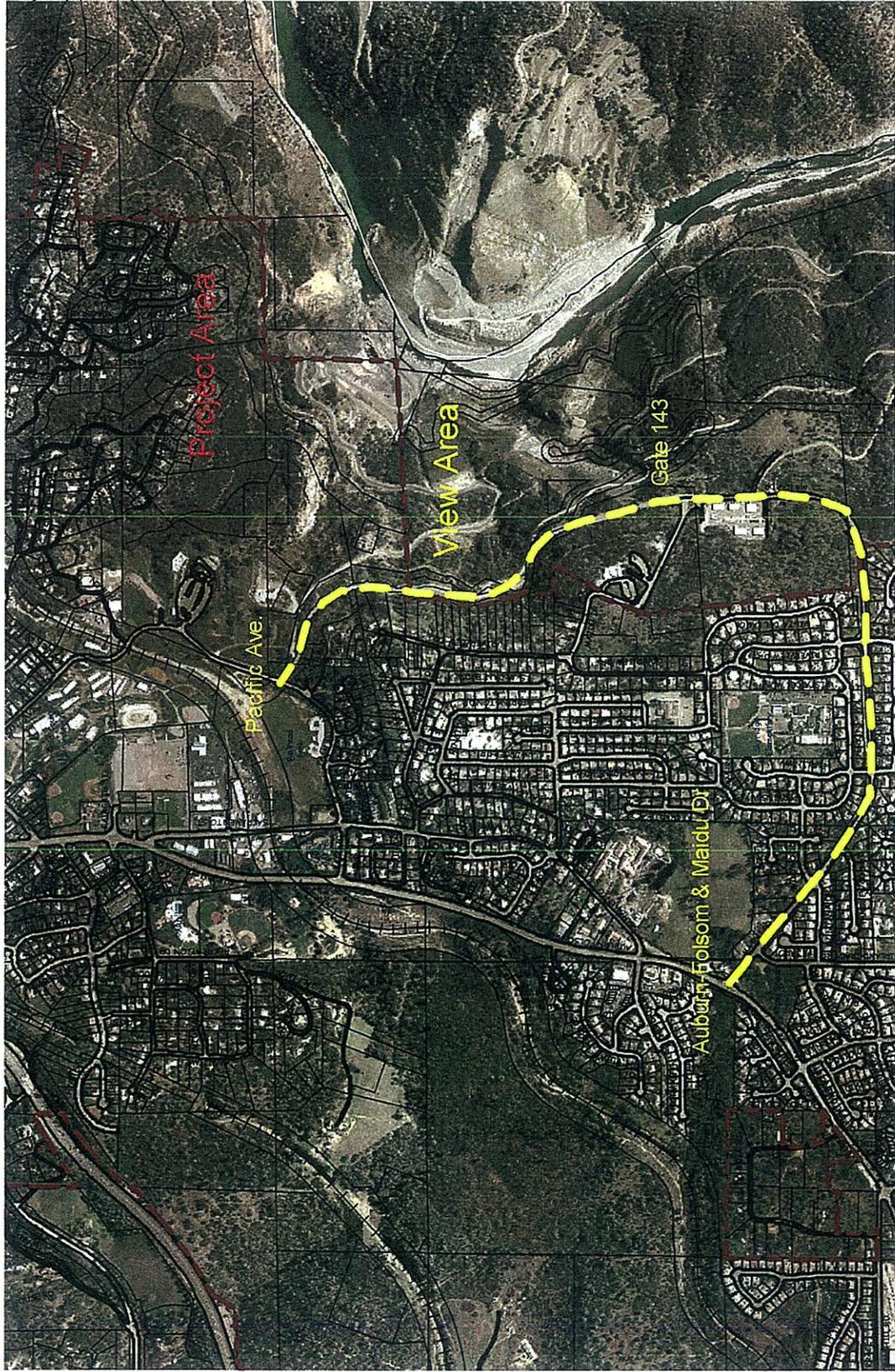
American River Canyon Shaded Fuel
Proposed Project Area



Scale: 1:7000

North ↑

**American River Canyon Shaded Fuel Break
SNC Project #567**



**Sierra Nevada Conservancy
Grant #567**

**Stakeholder Post/Progress Meeting
Tuesday April 30, 2013
0900 hours City of Auburn**

Areas to Review

Introductions (All)

Progress

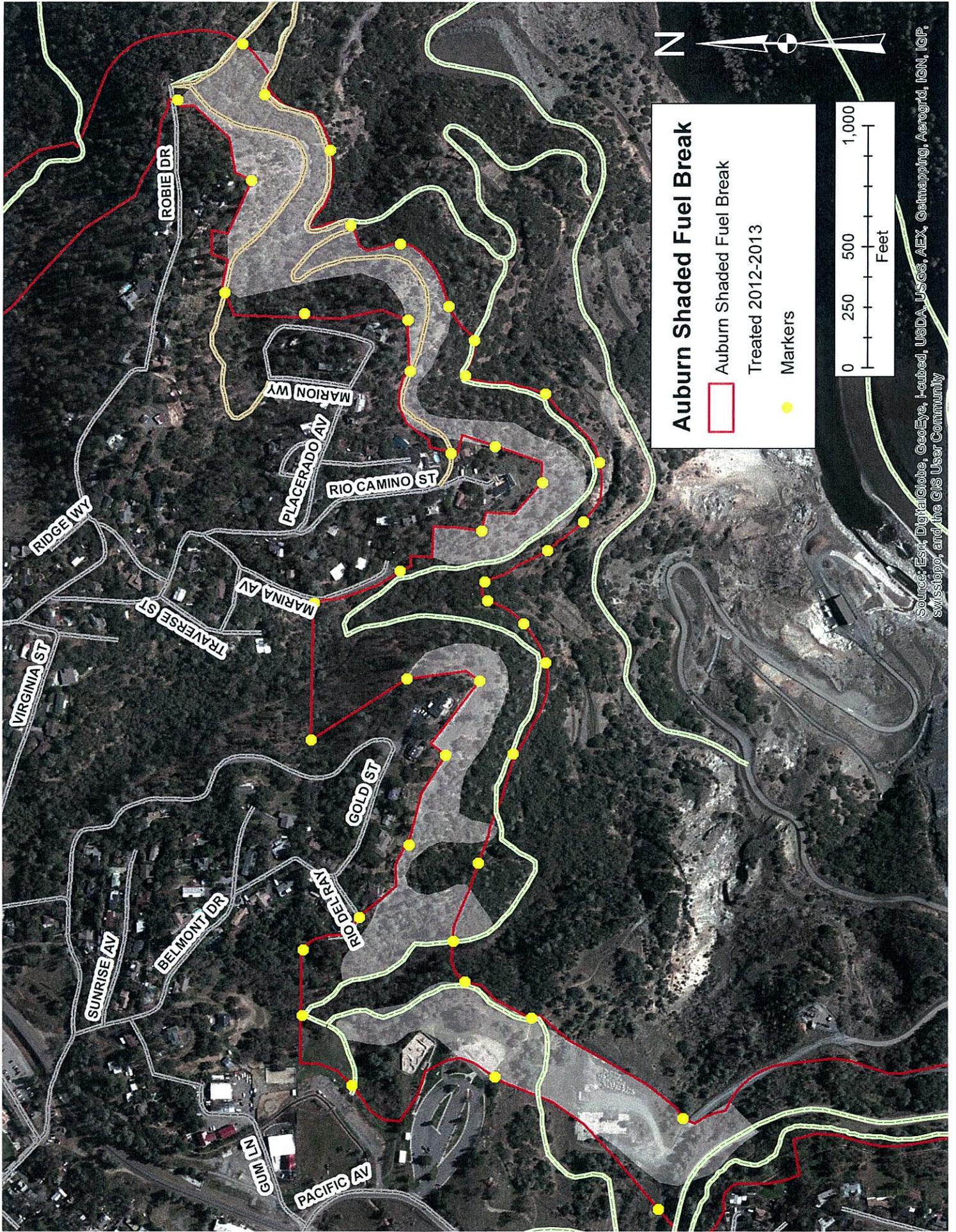
Ground Work completed
 Accomplishments
 Lessons learned
Areas identified for future additional work

Posting Markers
 GIS/GPS mapping

Stakeholders- Information for reporting, future projects

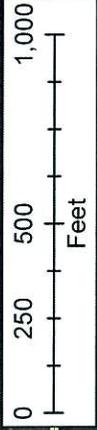
Auburn Fire
Cal Fire
State Parks
Bureau of Reclamation
Bushwackers
SNC

Other Areas for Discussion, closing remarks



Auburn Shaded Fuel Break

- Auburn Shaded Fuel Break
- Markers
- Treated 2012-2013



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



End of Rio Camino before Treatment



End of Rio Camino after Treatment (Further view to see entire treated area)



Robie Point before Treatment- Looking West



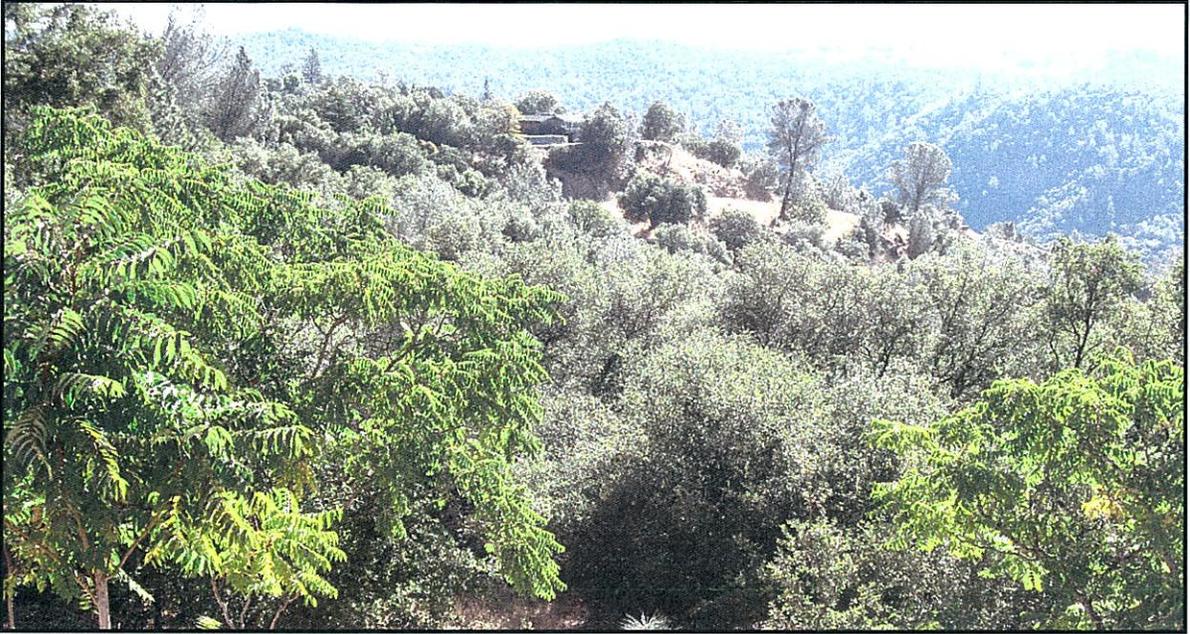
Robie Point after Treatment Looking West



Treatment Application- Waiting for Chipping



Applied Treatment



Marina Drainage- Limited Canopy Reduction



Tamarroo Drainage- Heavy Fuel Loading



Driving Markers Around
Project Perimeter

Posted Marker



AMERICAN RIVER CANYON SHADED FUEL BREAK



**California State Parks, U.S. Bureau
of Reclamation,
City of Auburn Fire Department**

2013/2014 Work Plan

Overview

The City of Auburn has been identified as a “Community At Risk” in the National Fire Plan. The community is considered a risk due to the proximity of residential, commercial, and recreational development within the Wildland Urban Interface and the designated Very High and High Fire Hazard Severity Zones.

This document is established as a collaborative guide in an effort to reduce damage caused by wildfire by identifying public agency resources allocated to enhancement and maintenance of the American River Canyon Shaded Fuel Break; a natural vegetation fuels reduction project. The American River Canyon Shaded Fuel Break is intended to provide a means of protection to the Auburn community from the disaster of wildfire, preserve our natural and cultural resources, enhance our watershed, support wildlife habitat, and maintain recreational opportunities to the pristine American River, Auburn State Recreation Area, and U.S. Bureau of Reclamation lands in and around the City of Auburn.

This plan is a collaborative effort between the U.S. Bureau of Reclamation, California State Parks, and the City of Auburn Fire Department to identify limited agency resources and priority areas to be enhanced and maintained on the American River Canyon Shaded Fuel Break. This plan is in addition to and supports the “Project Canyon Safe” program as developed by the Greater Auburn Area Fire Safe Council.

Goal:

To ensure vitality of the American River Canyon Shaded Fuel Break using public agency resources as available and in priority areas.

Objectives:

Identify available agency resources for use on the American River Canyon Shaded Fuel Break.

Evaluate priority areas within the American River Canyon Shaded Fuel Break for agency resources to perform fuel reduction work.

Develop a “Work Plan” for an identified time period, available resources to use, and location of areas to be treated.

Agency Resources:

Each agency recognizes the limited resources they have to fulfill agency missions. This plan is intended to capture resources that may be available to allocate specifically towards the American River Canyon Shaded Fuel. In no form does this plan constitute any agency commitment of such resources when resources are not available and or deemed vital to fulfill other agency priorities.

2013/2014 Resource Availability

California State Parks

- 10 Crew Days- California Department of Corrections & Rehabilitation (CDCR), through Cal Fire
- Personnel to assist with project review and logistics

U. S. Bureau of Reclamation

- 20 Crew Days- California Conservation Corps, (CCC)
- Personnel to assist with project review

City of Auburn Fire Department

- 10 Crew Days- California Department of Corrections & Rehabilitation (CDCR), through Cal Fire
- Personnel to conduct project review, coordination, and project oversight

2013/2014 Agency Priority Areas

Aeolia Heights- Canyon Drive to CA. State Parks Headquarters

Robie Point West-

Overlook Park East-

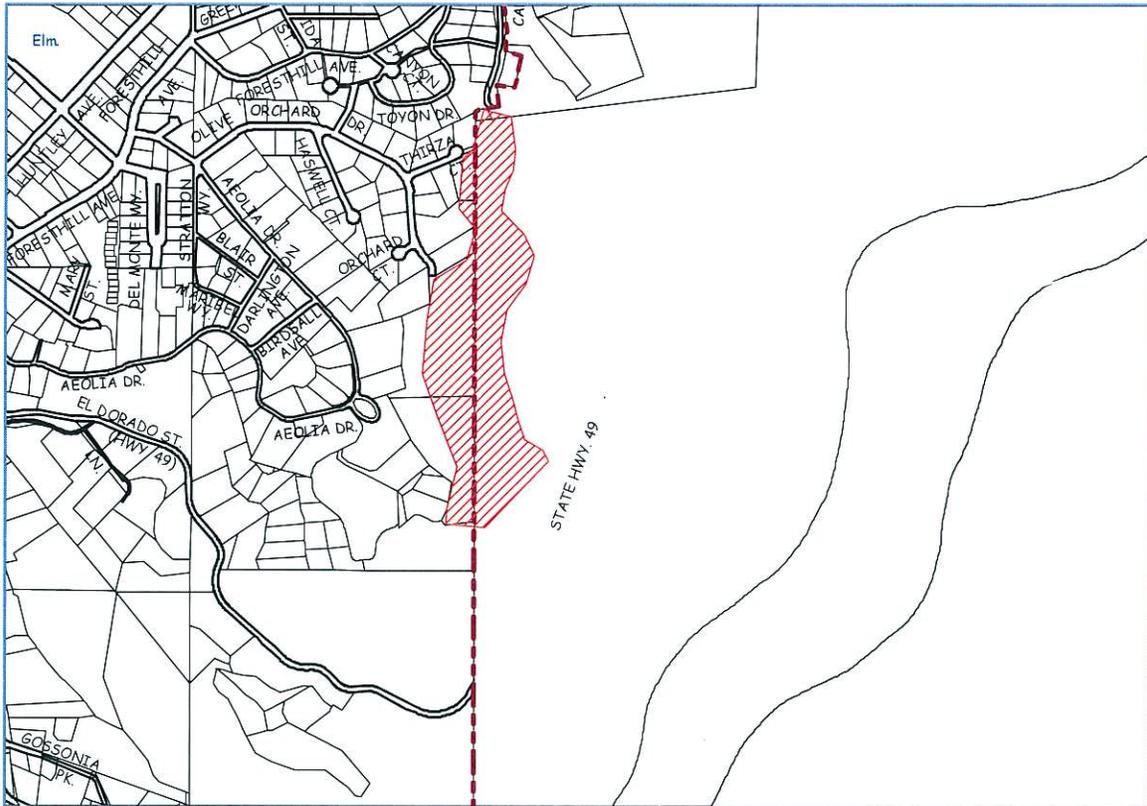
Canyon View Community Center- Maidu Drive

2013/2014 “Project Canyon Safe” Areas

Riverview Area

Monticello Area

Aeolia Heights- Canyon Drive to CA. State Parks Headquarters



Application:

Maintenance to Shaded Fuel Break on US BOR lands, enhance a portion off Canyon Way.

Resources:

CCC Crews, approximately 8-10 days

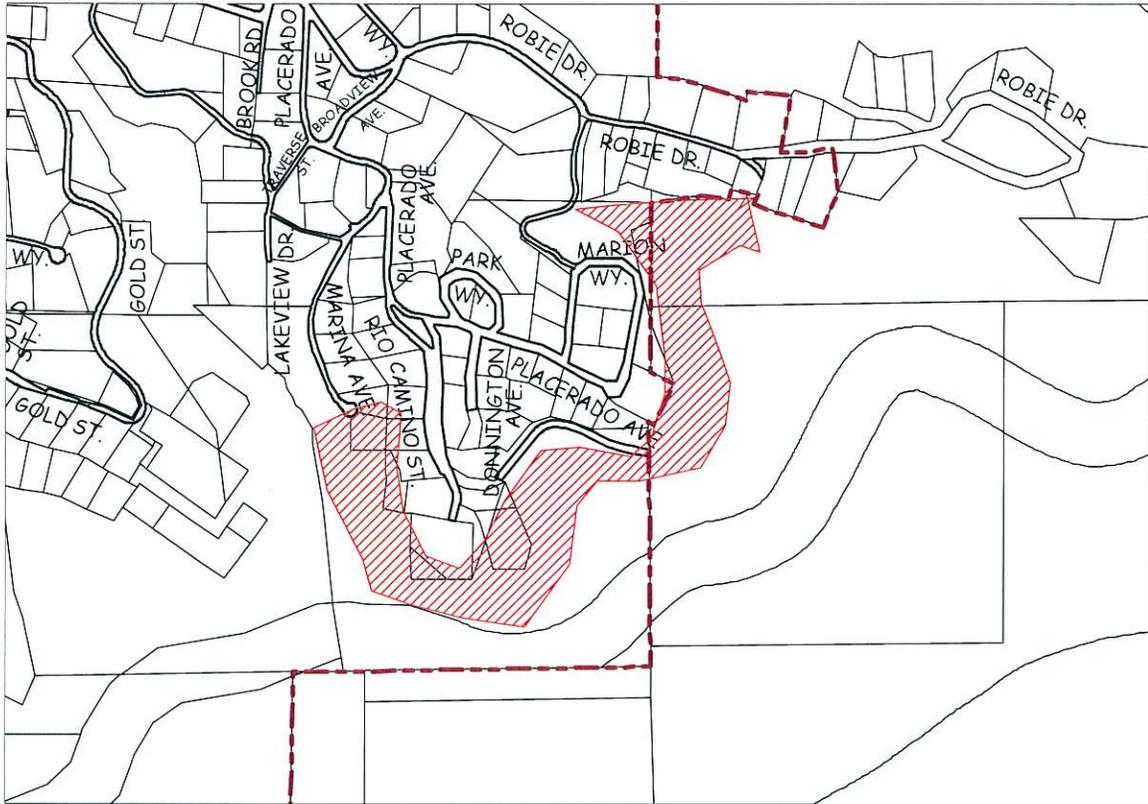
Project Review:

State Parks, US BOR, AFD

Project Oversight/Coordination Primary:

US BOR & AFD joint lead

Robie Point West



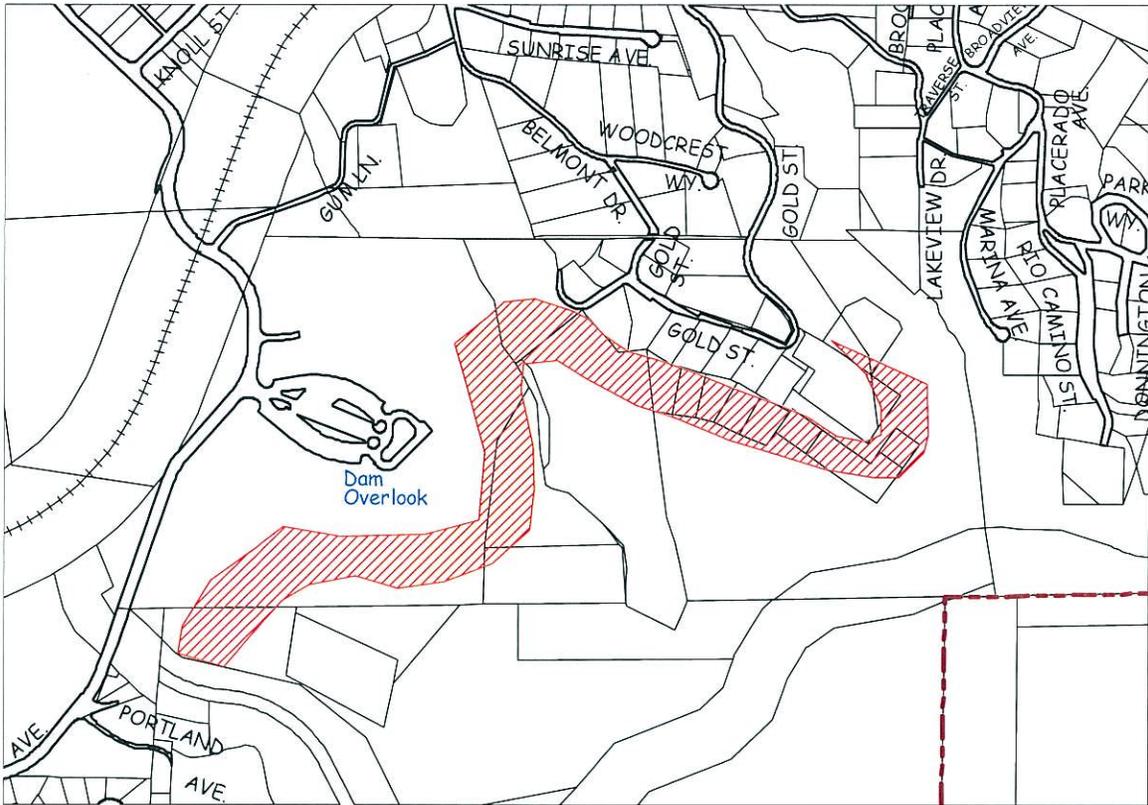
Application:
Maintenance to Shaded Fuel Break on US BOR lands

Resources:
CCC & CDCR Crews, approximately 10-15 days

Project Review:
State Parks, US BOR, AFD

Project Oversight/Coordination Primary:
US BOR & AFD joint lead

Overlook Park East



Application:
Maintenance to Shaded Fuel Break on US BOR lands

Resources:
CCC & CDCR Crews, approximately 10-15 days

Project Review:
State Parks, US BOR, AFD

Project Oversight/Coordination Primary:
US BOR & AFD joint lead

Canyon View Community Center Facility Area



Application:
Maintenance to Shaded Fuel Break on US BOR lands

Resources:
CCC, approximately 5-10 days

Project Review:
US BOR

Project Oversight/Coordination Primary:
US BOR & AFD joint lead

Riverview Area



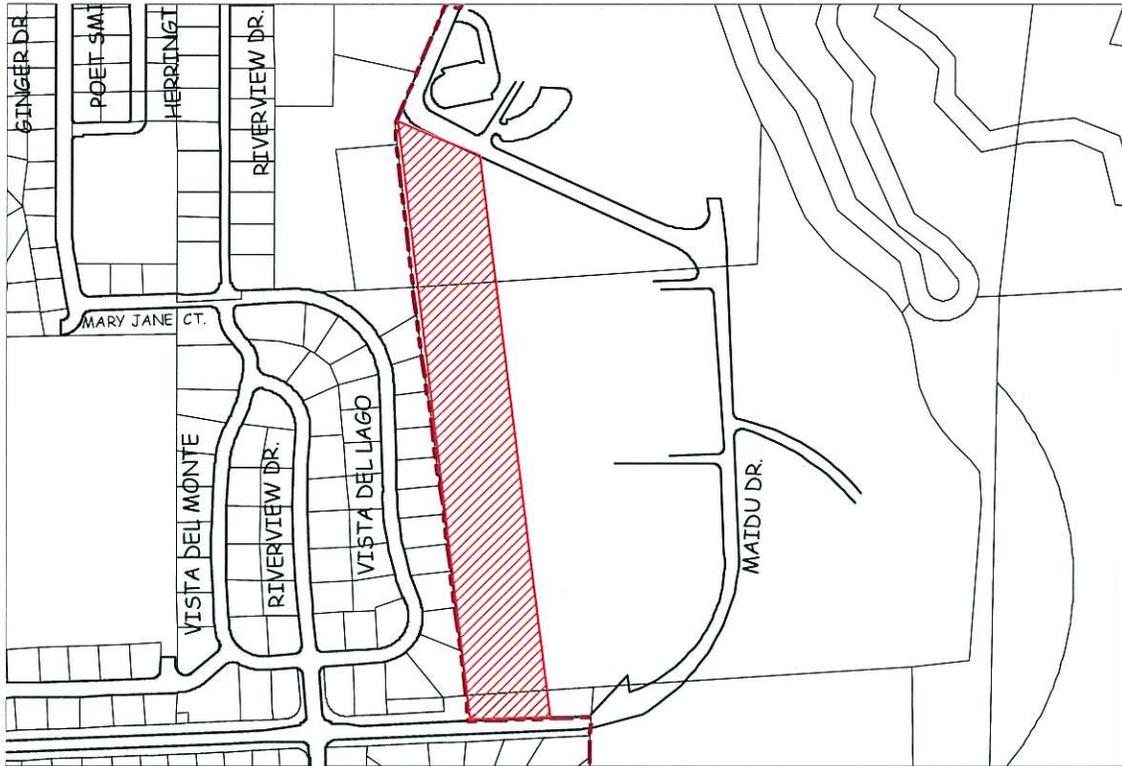
Application:
Maintenance to Shaded Fuel Break on Private lands
Use of grazing animals

Resources:
No agency resources, property owner project

Project Review:
AFD

Project Oversight/Coordination Primary:
AFD

Monticello Area



Application:
Maintenance to Shaded Fuel Break on Public lands

Resources:
No agency resources, property owner project

Project Review:
AFD

Project Oversight/Coordination Primary:
AFD