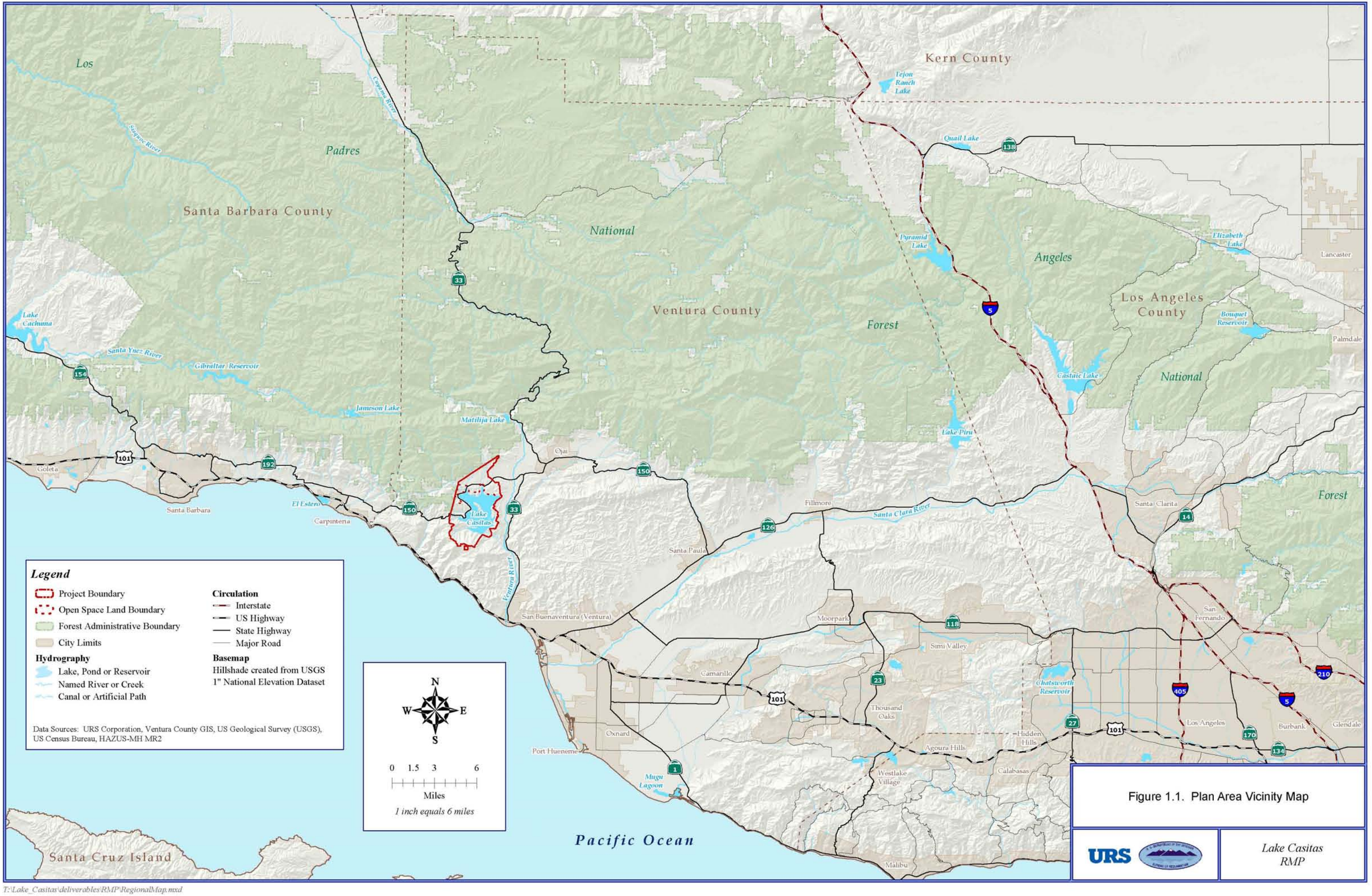

Figure 1.1. Plan Area Vicinity Map

URS

Lake Casitas RMP

T:\Lake_Casitas\deliverables\RMP\RegionalMap.mxd

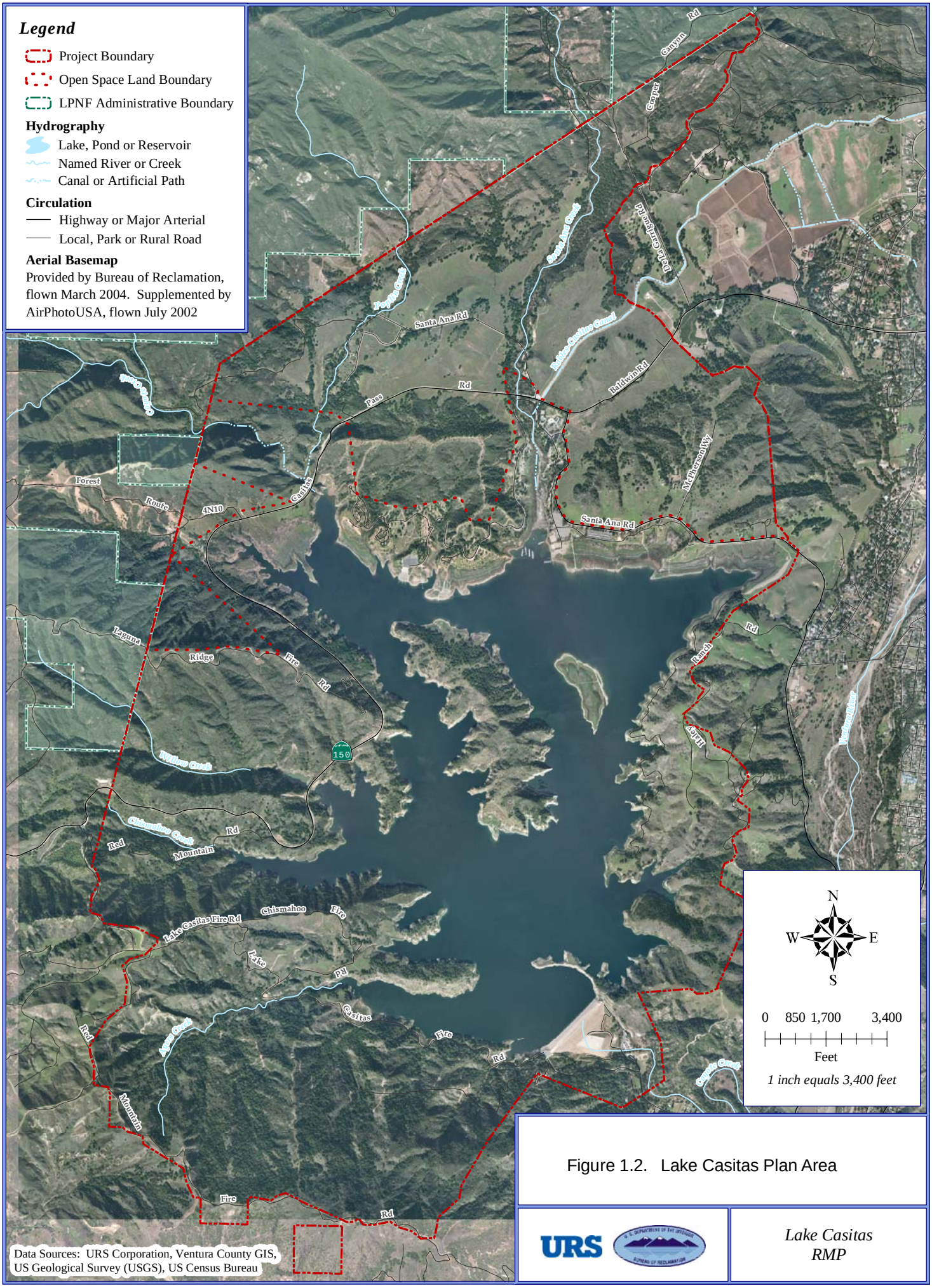

Figure 1.2. Lake Casitas Plan Area

URS

Lake Casitas RMP

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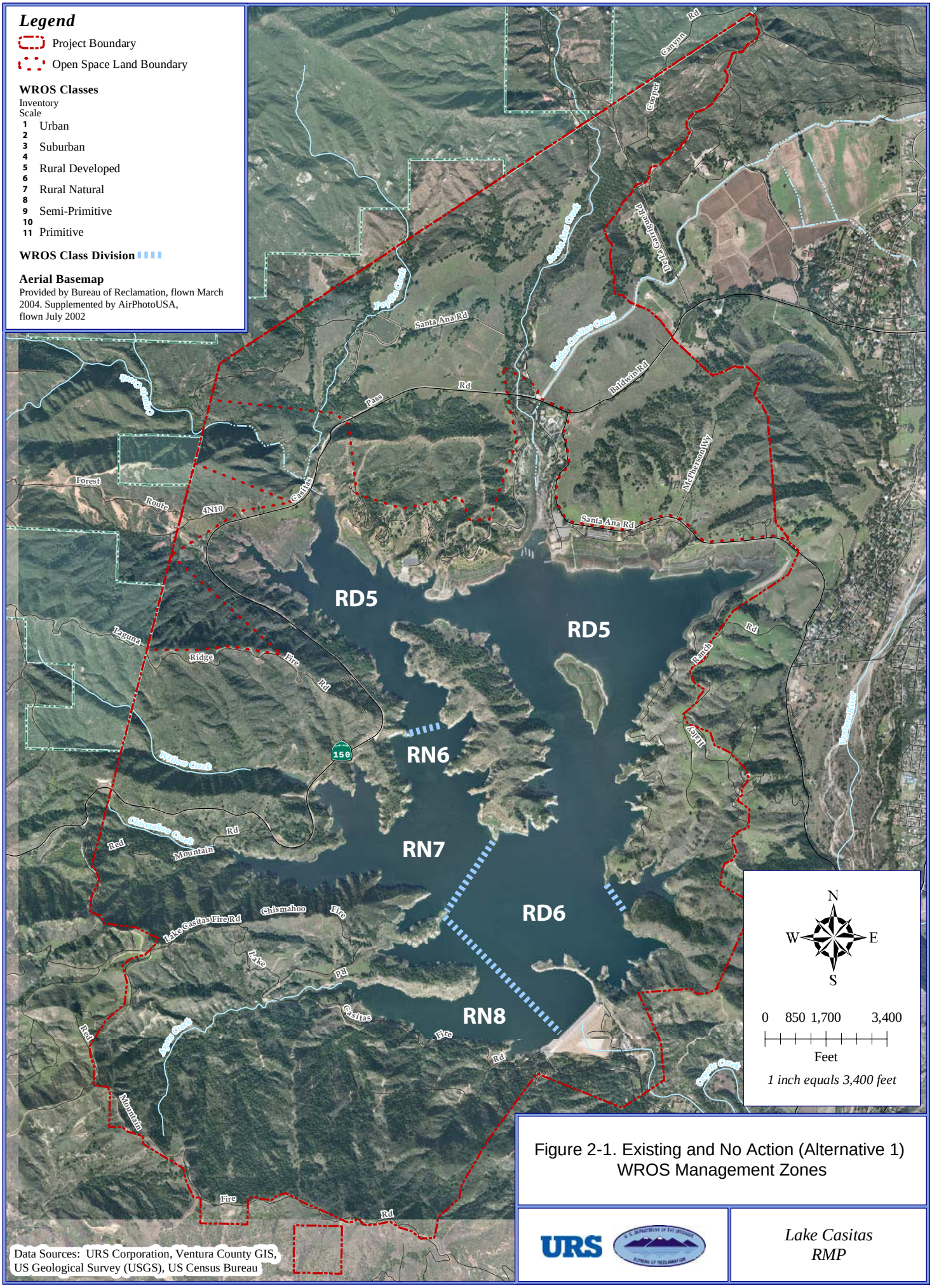

Figure 2-1. Existing and No Action (Alternative 1) WROS Management Zones

URS

Lake Casitas RMP

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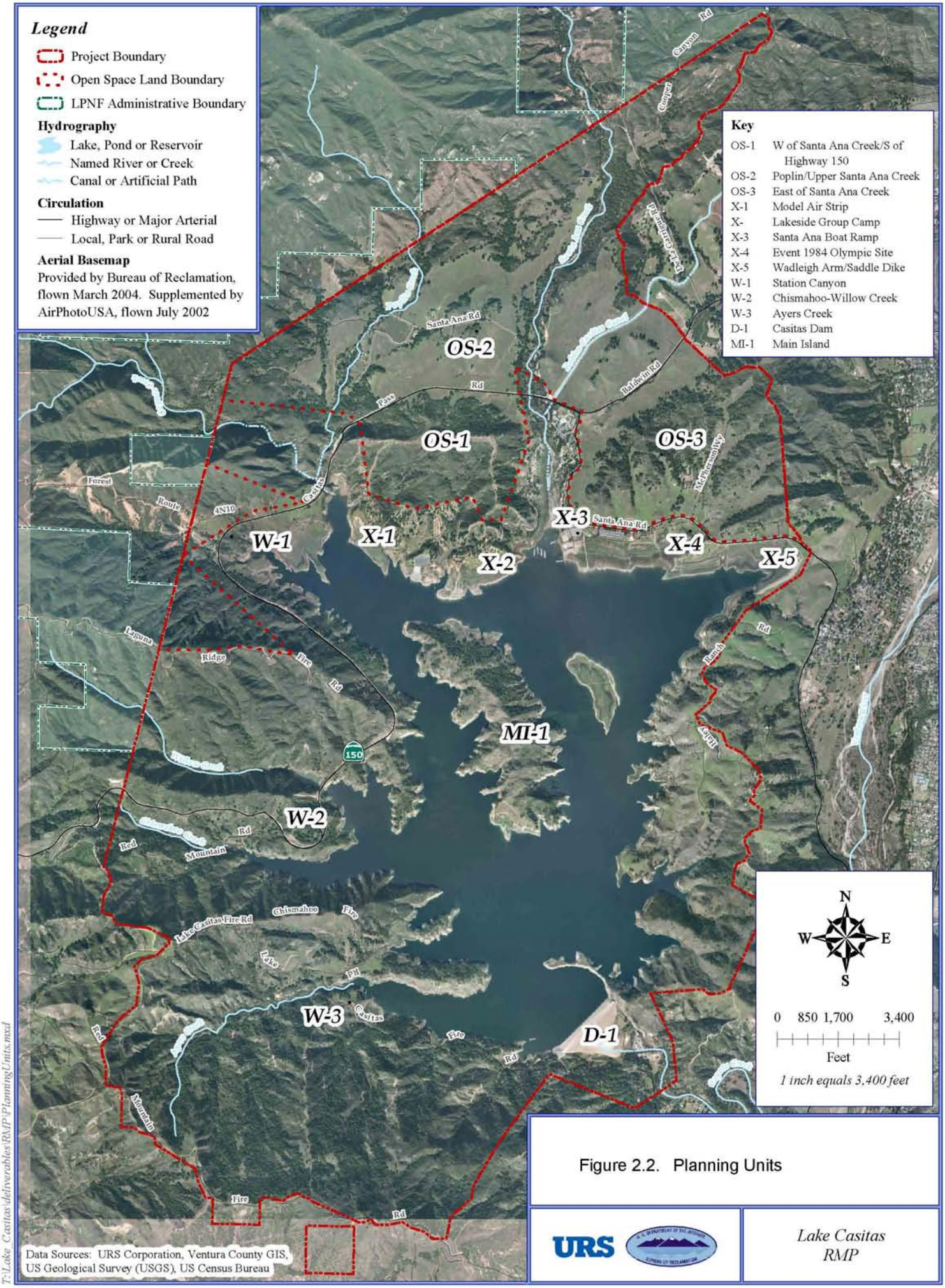

Figure 2.2. Planning Units

URS

Lake Casitas RMP

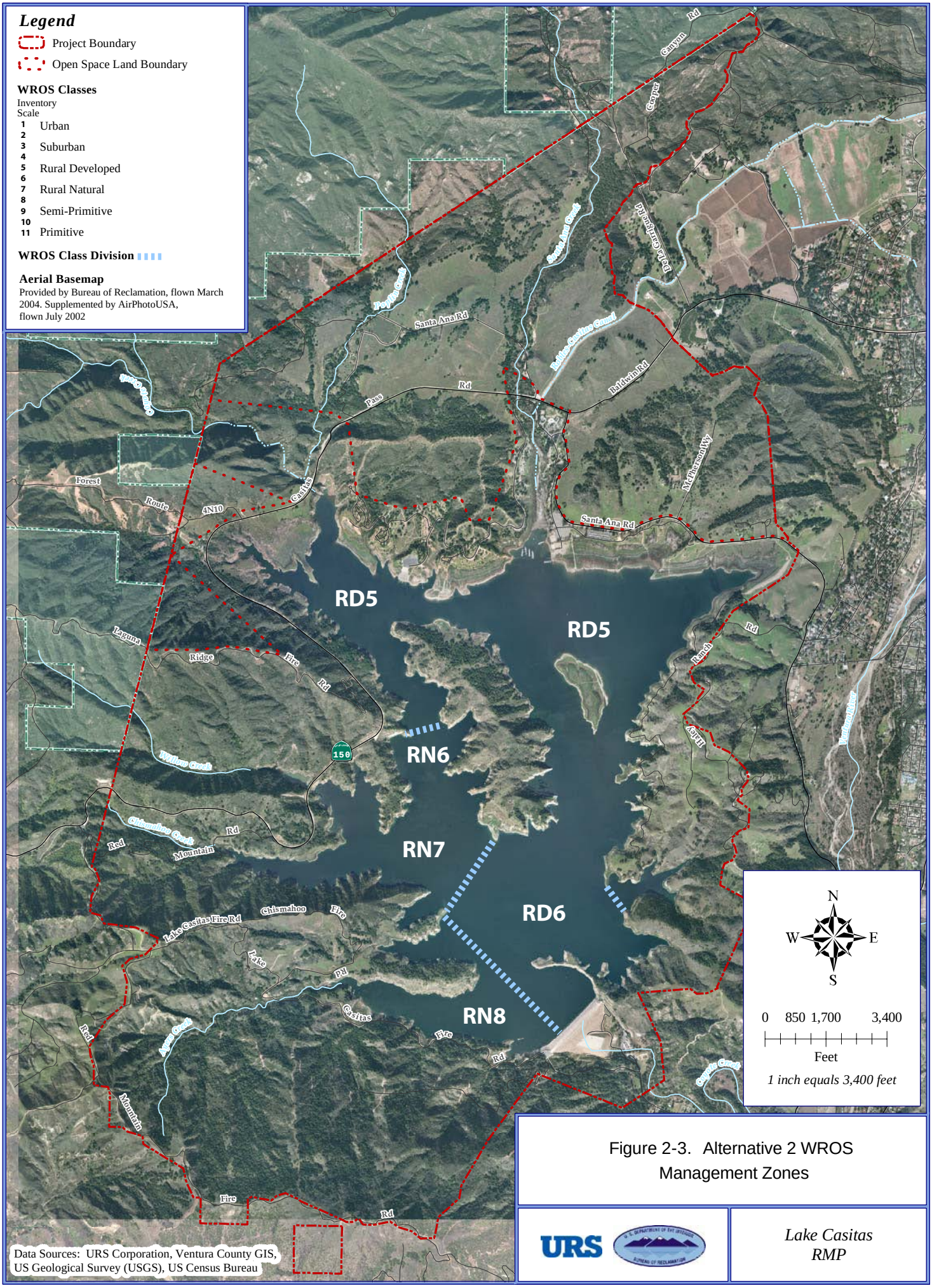

Figure 2-3. Alternative 2 WROS Management Zones

URS

Lake Casitas RMP

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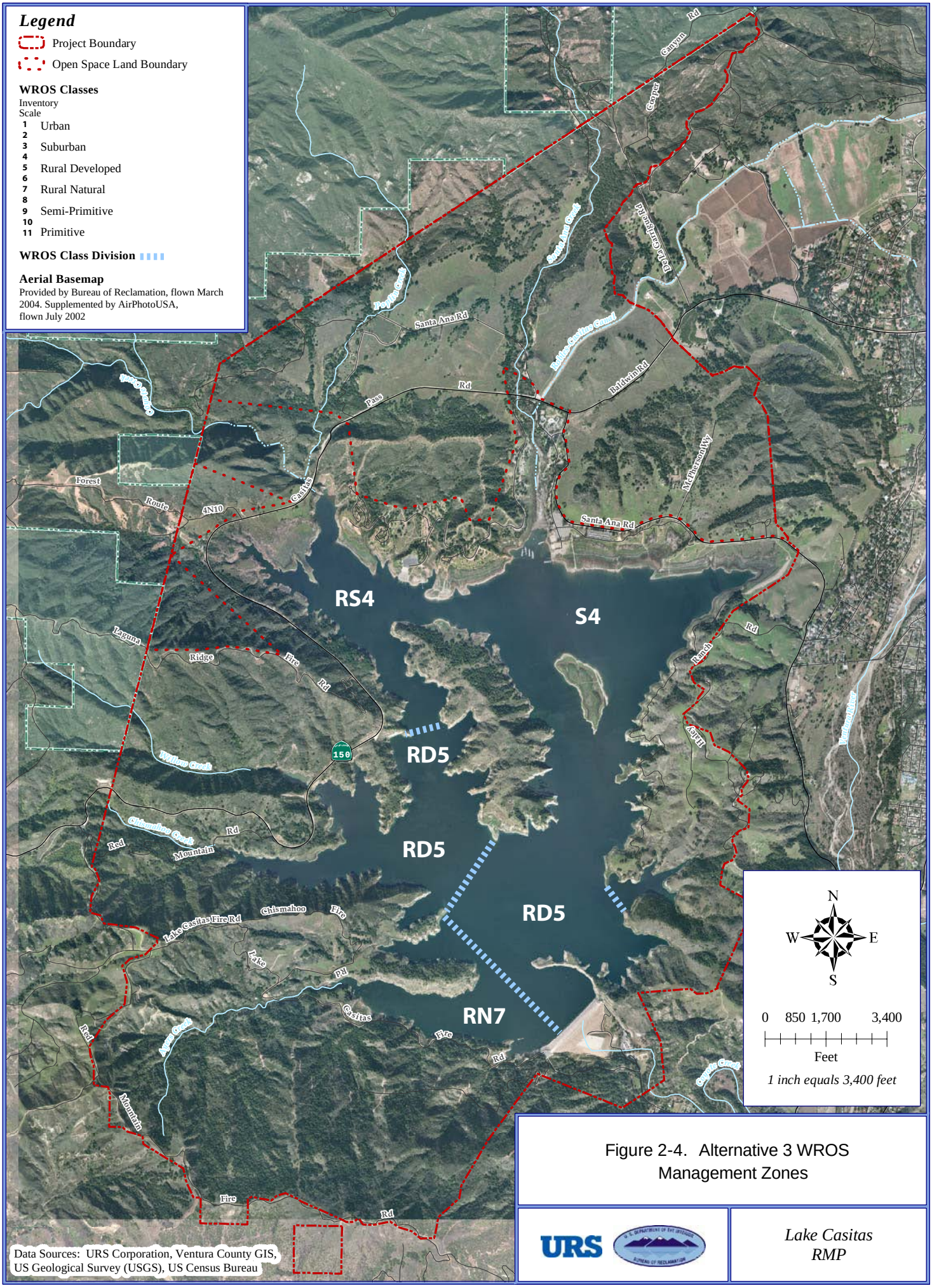

Figure 2-4. Alternative 3 WROS Management Zones

URS

Lake Casitas RMP

Legend

- Project Boundary
- Open Space Land Boundary
- LPNF Administrative Boundary

Hydrography

- Lake, Pond or Reservoir
- Named River or Creek
- Canal or Artificial Path

Circulation

- Highway or Major Arterial
- Local, Park or Rural Road

Basemap

USGS 1:24,000-scale topographic map created with TOPO!, (c)2001 National Geographic Maps, All Rights Reserved.

Slope Inclination Ranked by Slope Failure Potential*

- Low (< 20 degrees)
- Moderate (20 to 34 degrees)
- High (> 34 degrees)

*In general, the probability of slope failure increases with an increase in slope inclination. However, depending on various factors including, but not limited to, soil type, rock type, water content, vegetative cover and type, slope aspect, permeability, rate of infiltration, proximity to seismic sources, magnitude of seismic event, potential vertical and horizontal accelerations, etc., a slope having a relatively low inclination could be at greater risk of failure than another slope having a relatively high inclination.

Data Sources: URS Corporation, Ventura County GIS, US Geological Survey (USGS), US Census Bureau, Slope and Hillshade created from USGS 1/3" National Elevation Dataset

W S N E

270 degree rotation

0 550 1,100 2,200

Feet

1 inch equals 2,200 feet

Figure 3.3-1. Slope Inclination

URS

Lake Casitas RMP

T:\Lake_Casitas\deliverables\RMP\Slope.mxd

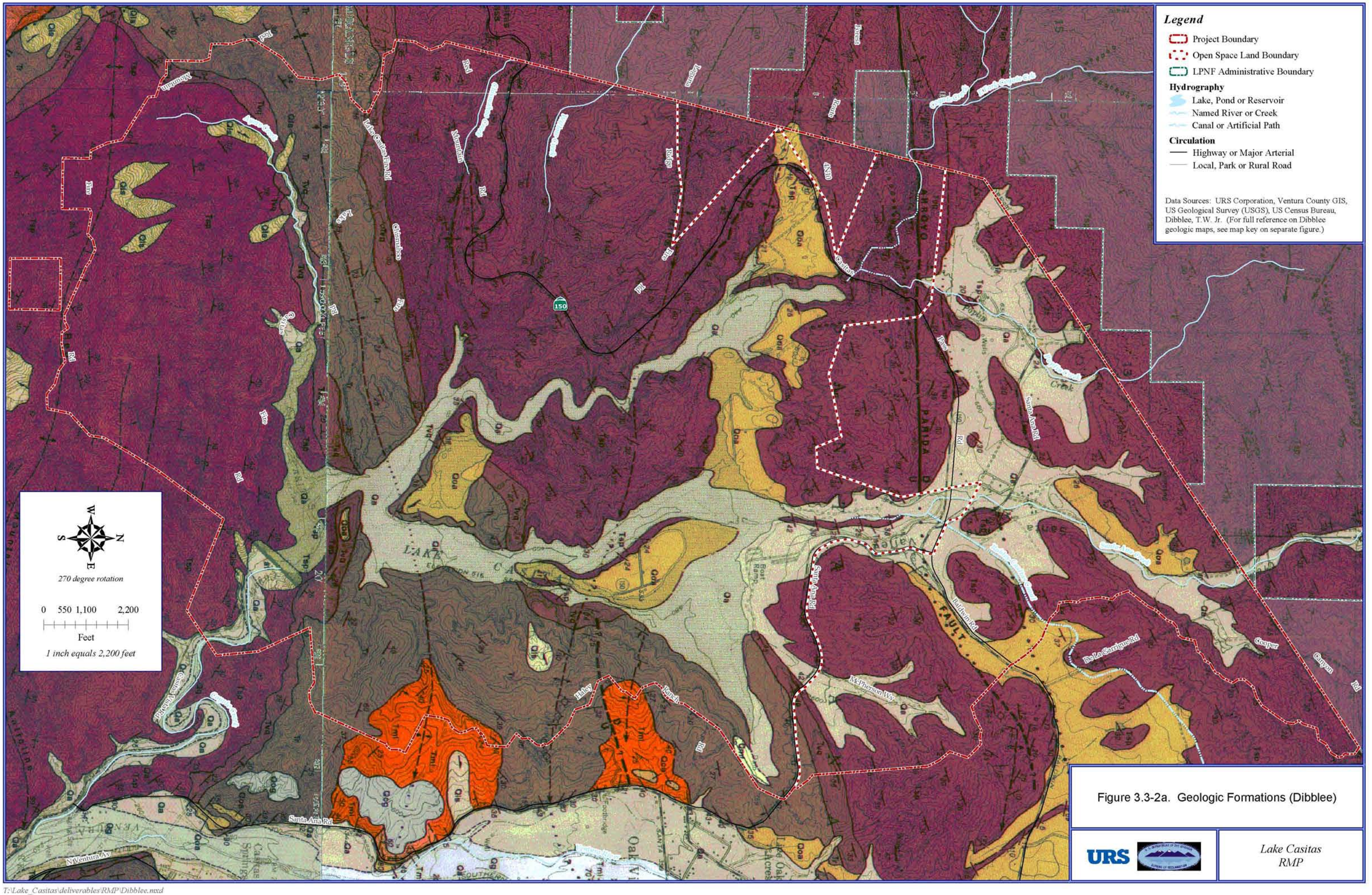

Figure 3.3-2a. Geologic Formations (Dibblee)

URS

Lake Casitas RMP

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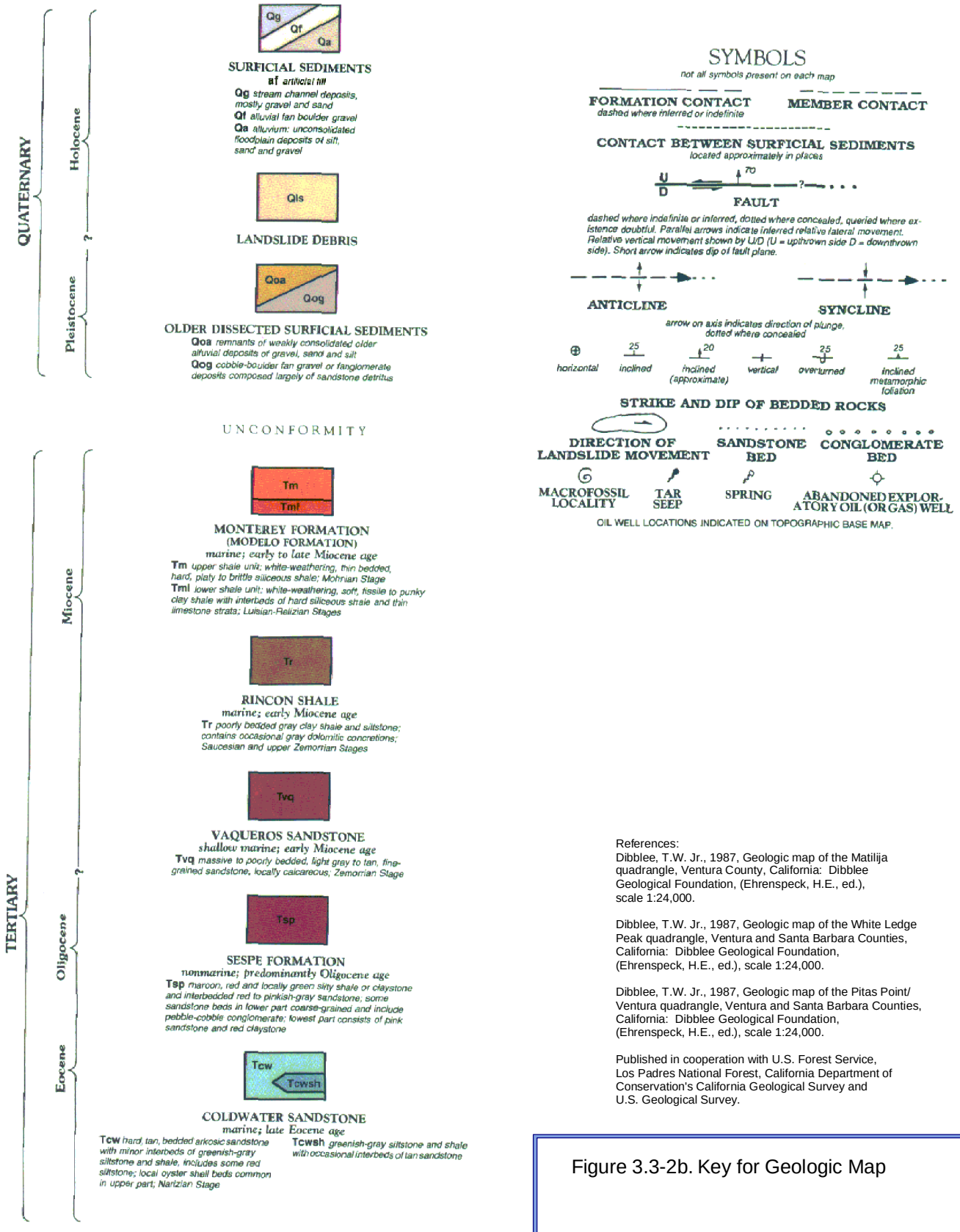
Matilija, White Ledge Peak, and Pitas Point/Ventura Legend:



References:
Dibblee, T.W. Jr., 1987, Geologic map of the Matilija quadrangle, Ventura County, California: Dibblee Geological Foundation, (Ehrenspeck, H.E., ed.), scale 1:24,000.

Dibblee, T.W. Jr., 1987, Geologic map of the White Ledge Peak quadrangle, Ventura and Santa Barbara Counties, California: Dibblee Geological Foundation, (Ehrenspeck, H.E., ed.), scale 1:24,000.

Dibblee, T.W. Jr., 1987, Geologic map of the Pitas Point/ Ventura quadrangle, Ventura and Santa Barbara Counties, California: Dibblee Geological Foundation, (Ehrenspeck, H.E., ed.), scale 1:24,000.

Published in cooperation with U.S. Forest Service, Los Padres National Forest, California Department of Conservation's California Geological Survey and U.S. Geological Survey.

Figure 3.3-2b. Key for Geologic Map

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U.S. DEPARTMENT OF THE INTERIOR BUREAU OF RECLAMATION

Lake Casitas RMP

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Legend

- Project Boundary
- Open Space Land Boundary
- Forest Administrative Boundary
- City Limits

Hydrography
- Lake, Pond or Reservoir
- Named River or Creek
- Canal or Artificial Path

Circulation
- Interstate
- US Highway
- State Highway
- Major Road

Basemap
Hillshade created from USGS 1" National Elevation Dataset

Data Sources: URS Corporation, Ventura County GIS, US Geological Survey (USGS), US Census Bureau, HAZUS-MH MR2, California Geological Survey (CGS)

CGS Probabilistic Seismic Hazard Model
Earthquake Shaking Potential

These regions are near major, active faults and will on average experience stronger earthquake shaking more frequently. This intense shaking can damage even strong, modern buildings.

Increasing Intensity

These regions are distant from known, active faults and will experience lower levels of shaking less frequently. In most earthquakes, only weaker masonry buildings would be damaged. However, very infrequent earthquakes could still cause strong shaking here.

N W E S

0 1.5 3 6

Miles

1 inch equals 6 miles

Note: This map shows the relative intensity of ground shaking and damage in California from anticipated future earthquakes. The Earthquake Shaking Potential model was calculated by the California Geological Survey from the USGS/CGS seismic hazards model (Frankel and others, 2002) considering amplification in near surface soils as shown by Wills and others (2000) and using the amplification factors recommended by the building Seismic Safety Council (1997).

Kern County
Los Angeles County
Santa Barbara County
Ventura County
Los Padres National Forest
Angeles National Forest
Tejon Ranch Lake
Quail Lake
Pyramid Lake
Elizabeth Lake
Lancaster
Bouquet Reservoir
Castaic Lake
Lake Piru
Lake Cachuma
Santa Ynez River
Gibraltar Reservoir
Jameson Lake
Matilija Lake
Lake Casitas
Ojai
Goleta
Santa Barbara
El Estero
Carpinteria
Fillmore
Santa Clara River
Santa Clarita
Santa Paula
Ventura River
San Buenaventura (Ventura)
Moorpark
Simi Valley
Camarillo
Thousand Oaks
Chatsworth Reservoir
Oxnard
Port Hueneme
Mugu Lagoon
Hidden Hills
Agoura Hills
Westlake Village
Calabasas
Los Angeles
Burbank
San Fernando
Malibu
Pacific Ocean

Figure 3.3-3. Ground Shaking Potential

URS

Lake Casitas RMP

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This area (White Ledge Peak Quadrangle) was not included in the Seismic Hazard Mapping Program.

Legend

- Project Boundary
- Open Space Land Boundary
- LPNF Administrative Boundary

Hydrography

- Lake, Pond or Reservoir
- Named River or Creek
- Canal or Artificial Path

Circulation

- Highway or Major Arterial
- Local, Park or Rural Road

Aerial Basemap

Provided by Bureau of Reclamation, flown March 2004. Supplemented by AirPhotoUSA, flown July 2002

- Earthquake-Induced Landslide Hazard Zone*

*Areas where Holocene occurrence of landslide movement, or local slope of terrain, and geological, geotechnical and ground moisture conditions indicate a potential for permanent ground displacements.
California Department of Conservation, California Geological Survey, Seismic Hazard Mapping Program.

Data Sources: URS Corporation, Ventura County GIS, US Geological Survey (USGS), US Census Bureau, California Geological Survey (CGS)

W S N E

270 degree rotation

0 550 1,100 2,200

Feet

1 inch equals 2,200 feet

Figure 3.3-4. Earthquake-Induced Landslide Susceptibility

URS

Lake Casitas RMP

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Legend

- Project Boundary
- Open Space Land Boundary
- Forest Administrative Boundary
- City Limits

Hydrography
- Lake, Pond or Reservoir
- Named River or Creek
- Canal or Artificial Path

Basemap
Hillshade created from USGS
1" National Elevation Dataset

Circulation
- Interstate
- US Highway
- State Highway
- Major Road

Quaternary and Younger Faults
- Defined
- Inferred
- Concealed

Alquist-Priolo Earthquake Fault Zone*
*AP Faults are only shown for Southern Ventura County.

Data Sources: URS Corporation, Ventura County GIS, US Geological Survey (USGS), US Census Bureau, HAZUS-MH MR2, California Geological Survey (CGS)

N W E S

0 1.5 3 6
Miles
1 inch equals 6 miles

Figure 3.3-5. Major Known Faults

URS

Lake Casitas RMP

T:\Lake_Casitas\deliverables\RMP\MajorKnownFaults.mxd

Legend

- Project Boundary
- Open Space Land Boundary
- LPNF Administrative Boundary

Hydrography

- Lake, Pond or Reservoir
- Named River or Creek
- Canal or Artificial Path

Circulation

- Highway or Major Arterial
- Local, Park or Rural Road

Basemap

Hillshade created from USGS 1/3" National Elevation Dataset

Soil Survey
Ventura Area, California

See bottom left corner for soil classifications by soil series and texture. Percent slope shown on map.

Data Sources: URS Corporation, Ventura County GIS, US Geological Survey (USGS), US Census Bureau, USDA - Natural Resources Conservation Service (NRCS) Soil Survey Geographic (SSURGO) Database

W S N E

270 degree rotation

0 550 1,100 2,200

Feet

1 inch equals 2,200 feet

Soil Series and Texture

- Anacapa Sandy Loam
- Azule Loam
- Calleguas Shaly Loam
- Cortina Stony Sandy Loam
- Cropley Clay
- Dam
- Diablo Clay
- Kimball Sandy Loam
- Linne Silty Clay Loam
- Lodo Rocky Loam
- Los Osos Clay Loam
- Malibu Loam
- Millsholm-Malibu Complex
- Nacimiento Silty Clay Loam
- Ojai Stony Fine Sandy Loam
- Ojai Very Fine Sandy Loam
- Pits And Dumps
- Riverwash
- San Benito Clay Loam
- Sespe Clay Loam
- Soper Gravelly Loam
- Soper Loam
- Sorrento Clay Loam
- Terrace Escarpments
- Water

Figure 3.3-6. Soils

URS

Lake Casitas RMP

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