

# HELIOS ENERGY RESEARCH FACILITY



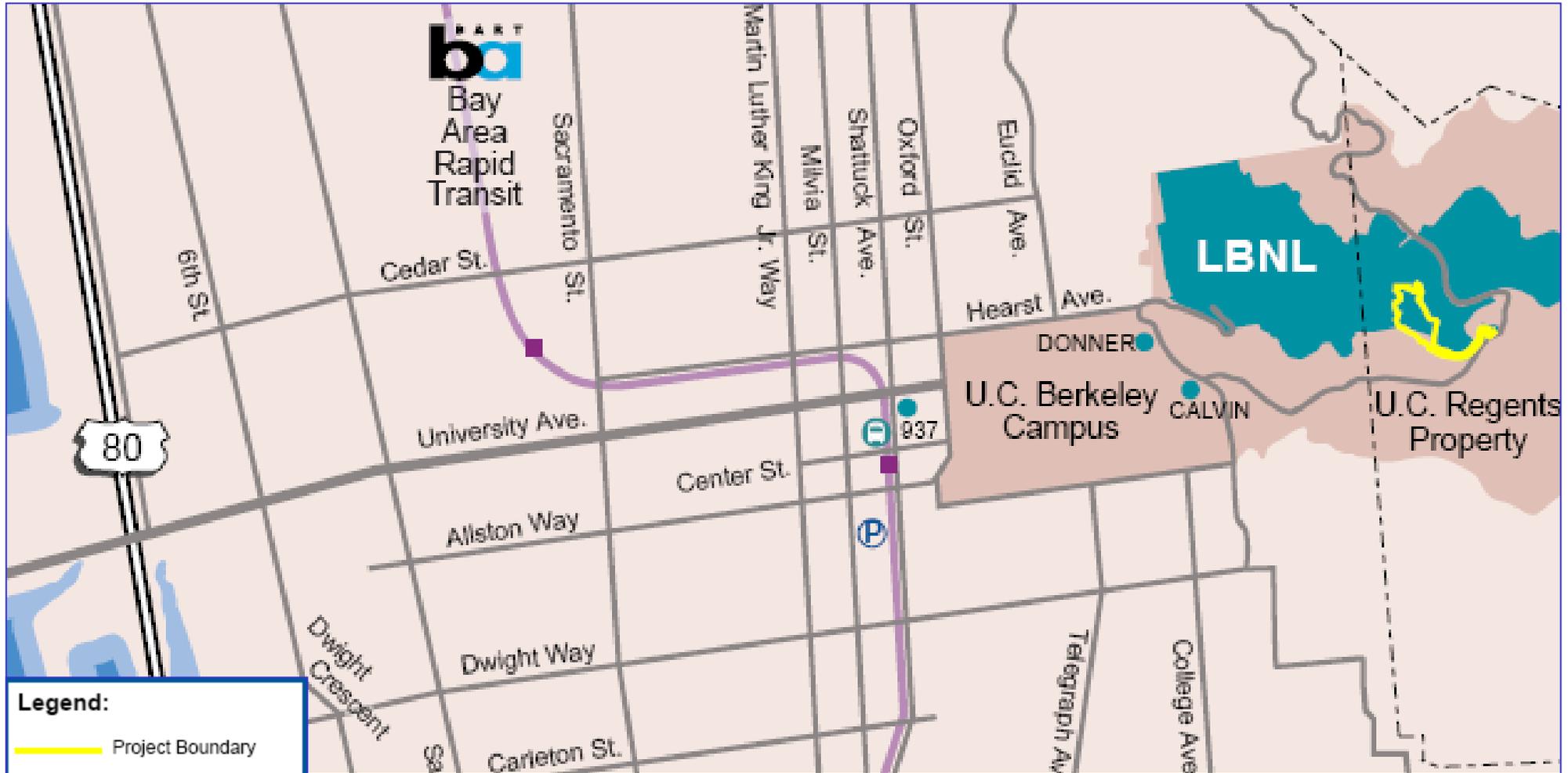
*A facility designed to address the challenges of climate change*



## Public Hearing

December 17, 2007

# HELIOS LOCATION



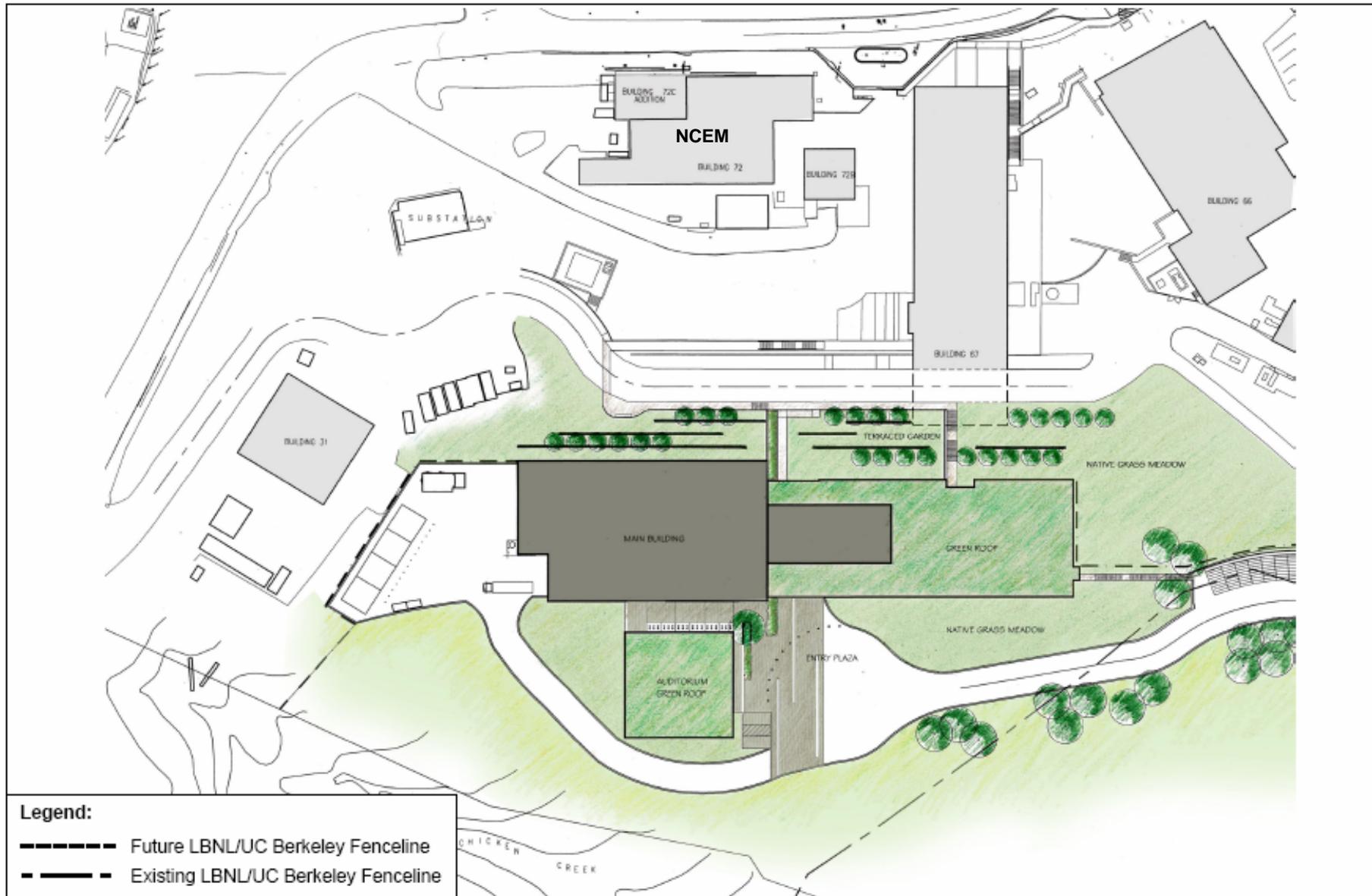
**Legend:**  
— Project Boundary

NOT TO SCALE

# HELIOS LBNL SITE



# HELIOS SITE PLAN



# HELIOS BUILDING INFORMATION

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- **Occupancy 500**
- **160,000 gross square feet**
  - **Laboratories, offices, auditorium and cafeteria**
- **Building will house research designed to address climate change by:**
  - **Developing new, clean energy alternatives**
  - **Targeting solar technologies**

- **Goal of LEED® Silver**
- **Energy efficiency is key**
  - **Leverage the Berkeley climate**
  - **System right-sizing**
  - **Day lighting and sun shading**
  - **Process equipment**
  - **Green roofs for natural cooling**
- **Sustainable operations**
  - **Recycling, transportation, water conservation**

# HELIOS SOUTHERN VIEW



# HELIOS FRONTAL VIEW



# HELIOS ENERGY RESEARCH FACILITY



## Environmental Impact Report

# CEQA Process



- **Notice of Preparation** -- **July/Aug 2007**
- **Draft EIR Circulation** -- **Nov 07 - Feb 08**
  - **Public Hearing** -- **Dec 17, 2007**
- **Planning Commission** -- **Dec 19, 2007**
- **Final EIR** -- **April 2008**
- **EIR Certification (Regents)** -- **May 2008**

- **Project Description**

- **Project Impacts Analysis**

*Aesthetics*

*Air Quality*

*Biological*

*Cultural*

*Geology*

*Hazards*

*Hydrology*

*Noise*

*Land Use*

*Population*

*Public Services*

*Traffic*

*Utilities*

- **Cumulative Impacts Analysis**

- **Alternatives Analysis**

## Significant, Unavoidable Impacts

- Visual
- Traffic (Cumulative)
- Air (Cumulative)

# Visual Simulations – Proposed Project



SOURCE: Environmental Vision - September 2007

FIGURE 4.1-5

Visual Simulation - Centennial Drive

9206-01-000107



SOURCE: Environmental Vision - September 2007

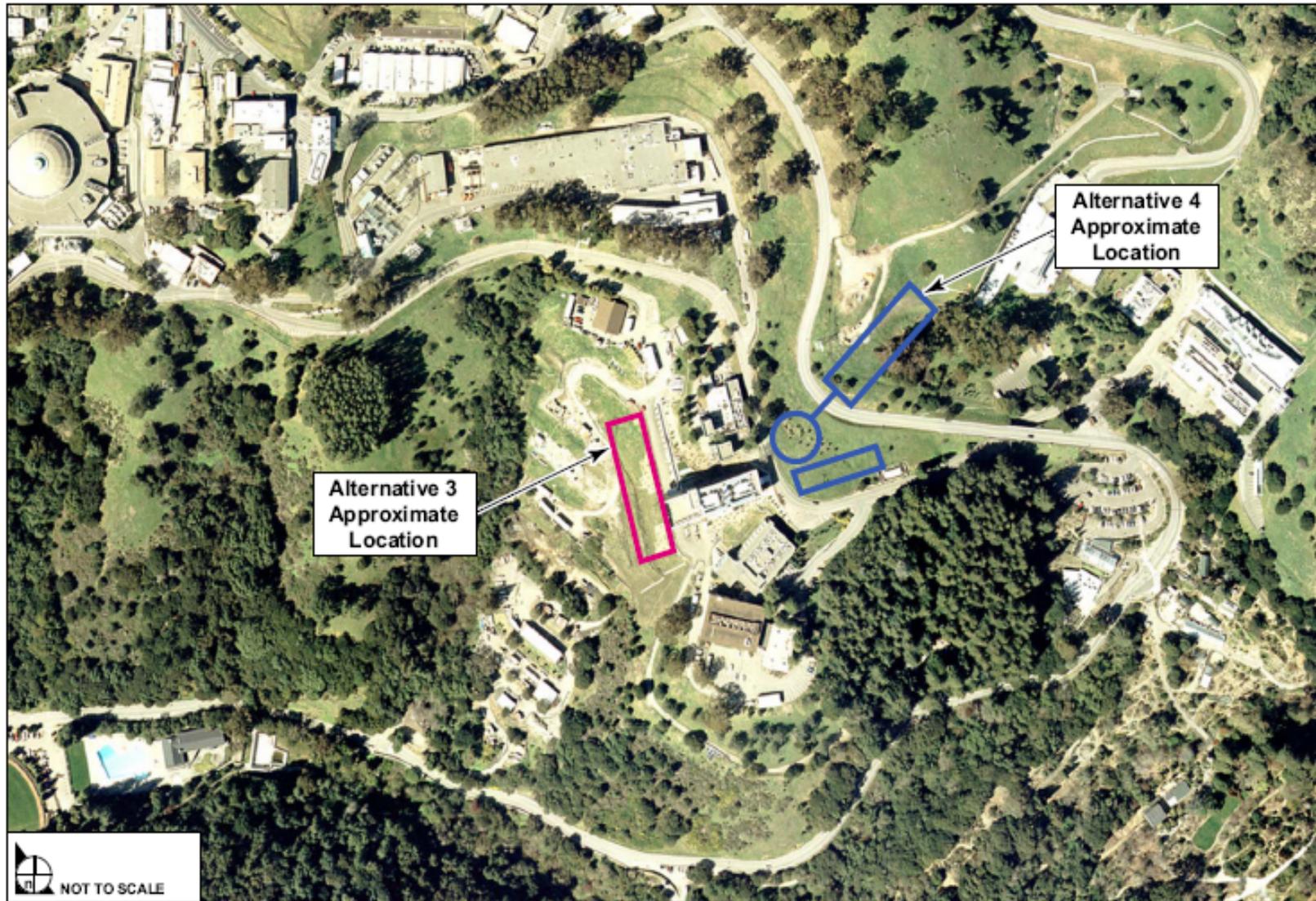
FIGURE 4.1-6

Visual Simulation - Panoramic Way

9206-01-000107

- **No Project**
- **Reduced Facility Design**
- **Split Building Design**
- **Alternate LBNL Location**
  
- **Access Road Alternatives**

# Alternatives -- Sites



SOURCE: SMITHGROUP 2007, Impact Sciences, Inc. - August 2007

FIGURE 6.0-1

Location of Alternatives 3 and 4

# Alternatives -- Visual Simulations



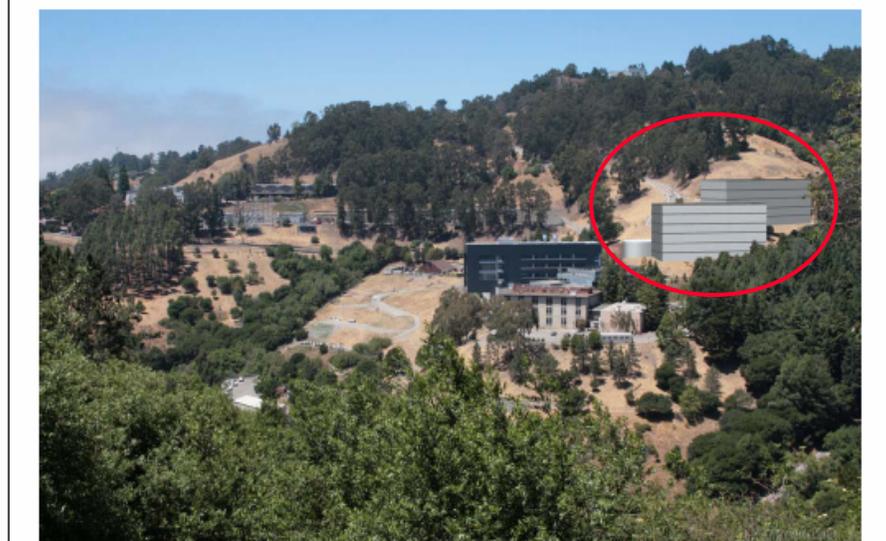
Existing view from Panoramic Way (VP 7)



Existing view from Jordan Fire Trail (VP 8)



Conceptual simulation of project alternative (ALT-3)



Conceptual simulation of project alternative (ALT-4)

SOURCE: Environmental Vision - September 2007

SOURCE: Environmental Vision - September 2007

FIGURE 6.0-2

FIGURE 6.0-3



Conceptual Simulation - Alternative 3



Conceptual Simulation - Alternative 4

924-01-0907

924-01-0907

# Alternatives – Roadway Configurations

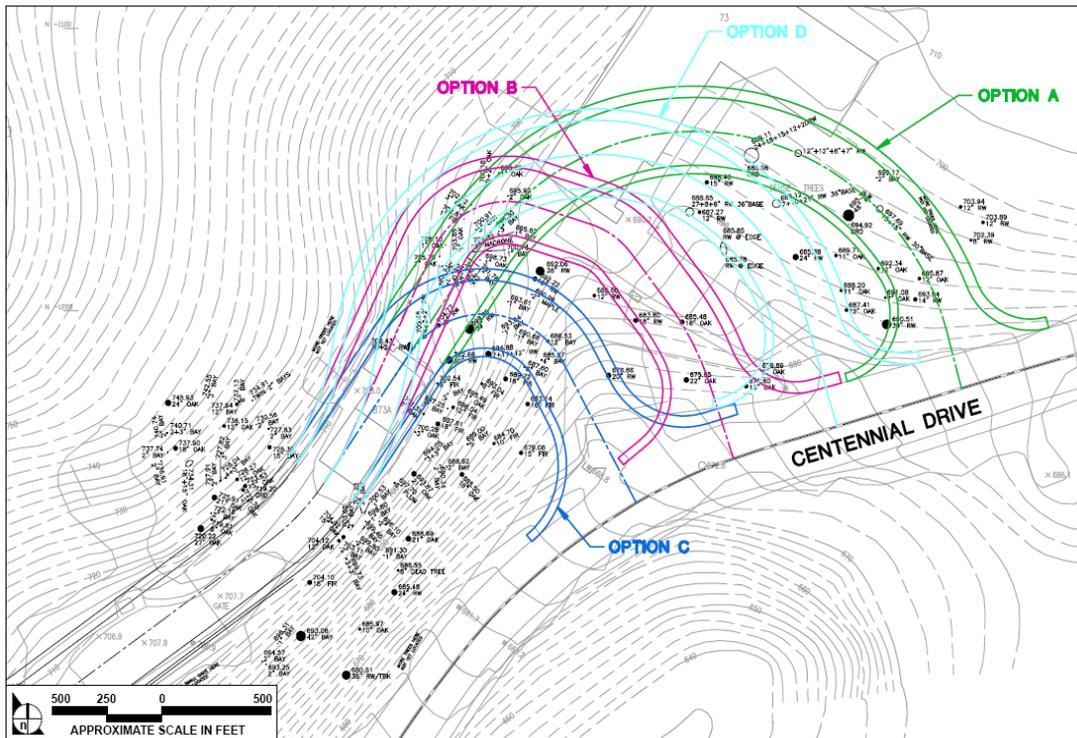


FIGURE 3.0-6

Access Road to Centennial Drive Intersection Options

924-001-11/07

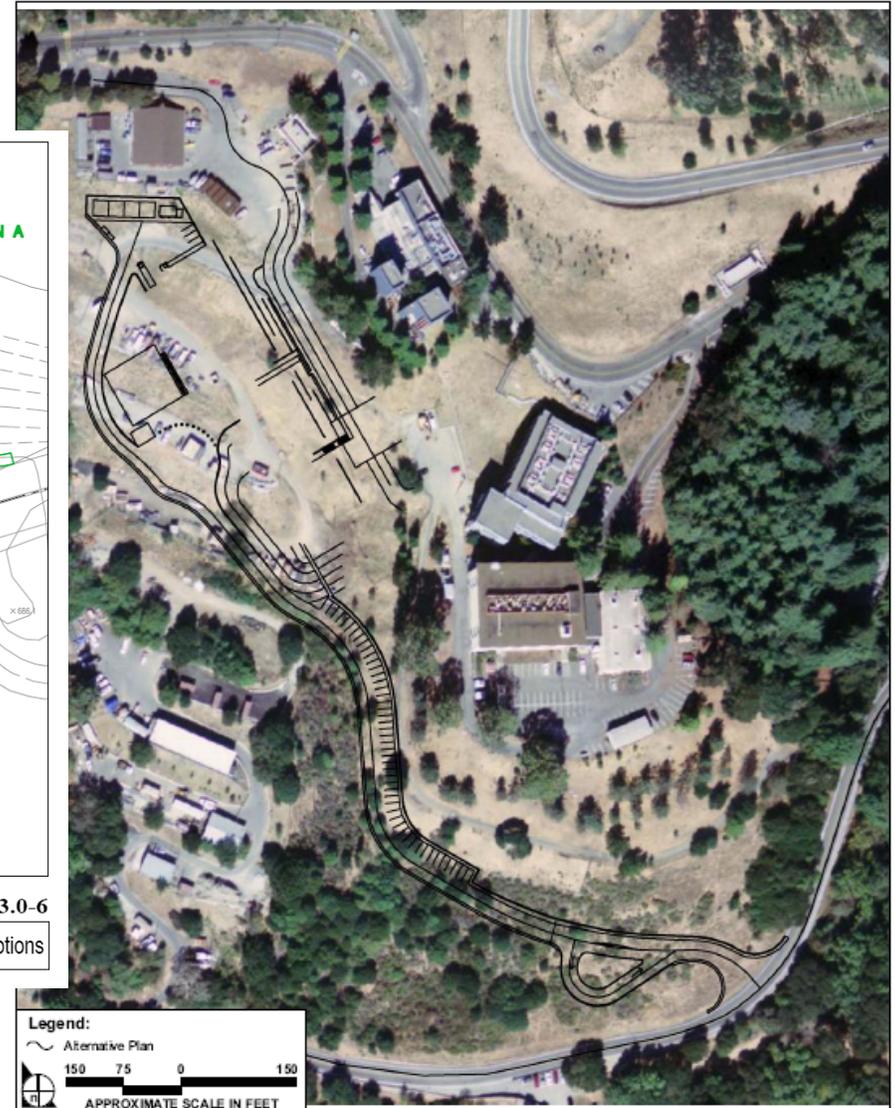


FIGURE 6.0-4

Alternative 5: Alternate Roadway Alignment Location

924-01-11/07

- **Record, review all comments**
- **Prepare written responses to comments**
- **Address substantive issues in Final EIR, as appropriate**
- **Prepare Mitigation Monitoring / Reporting Program**
- **Make Final EIR available to public / Regents**

## Comments