Community Advisory Group

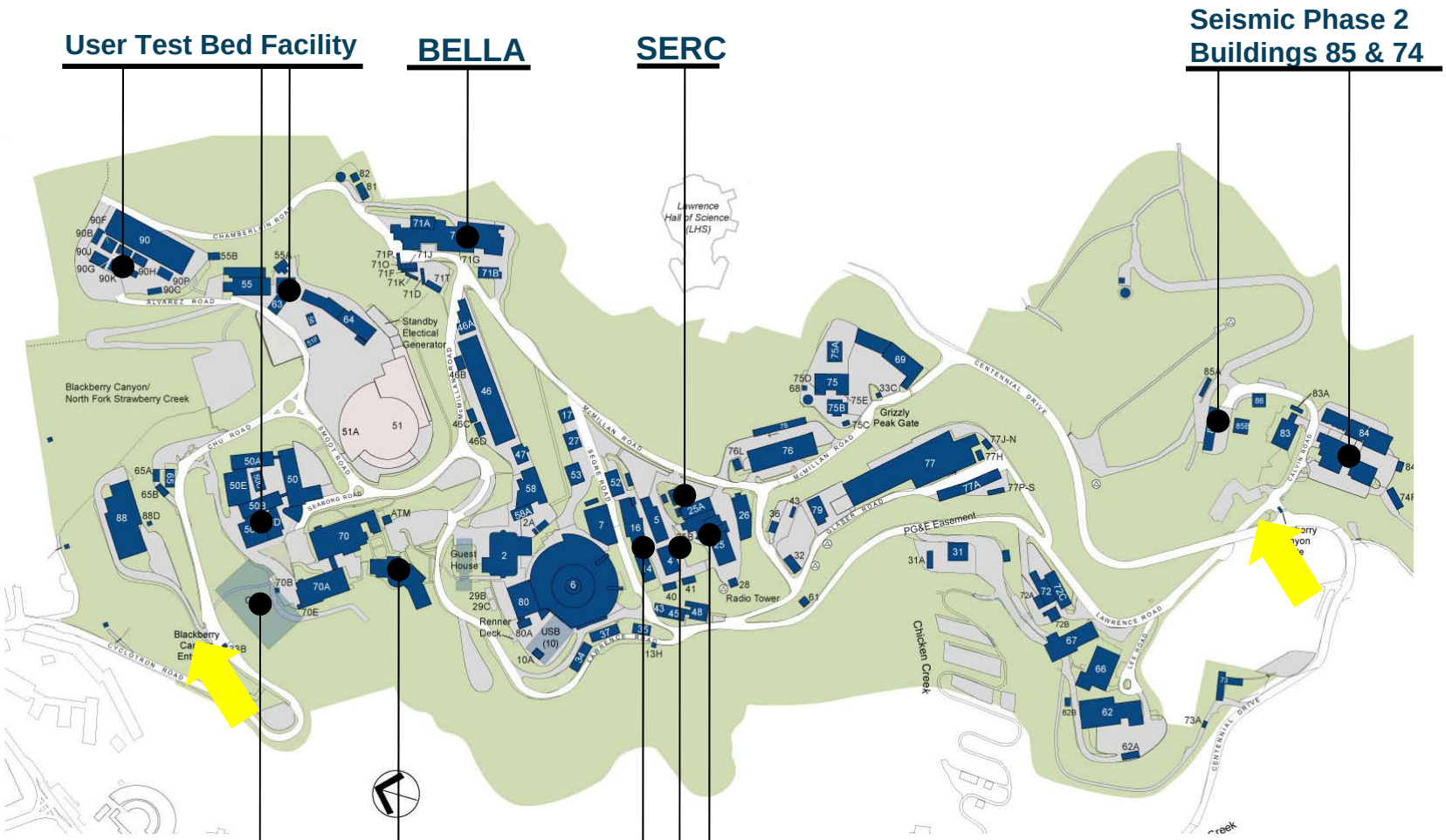
Currently Proposed and Possible Future Projects

17 March 2010

Overview

- Old Town Demolition
- Solar Energy Research Center
- Seismic Phase 2
- Seismic Phase 3
- BELLA
- User Test Bed Facility
- Computational Research & Theory Facility

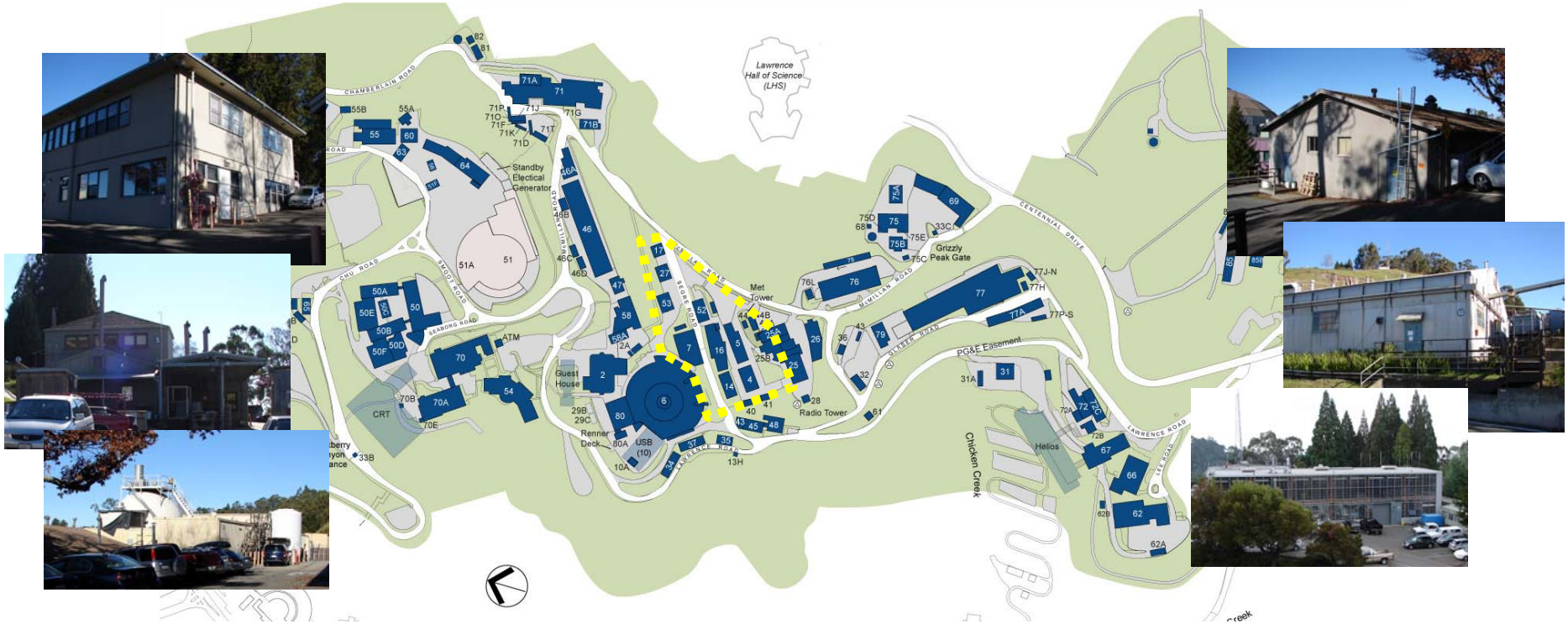
LBNL Project Overview



Currently Proposed and Possible Future Projects
Locations are illustrative and approximate

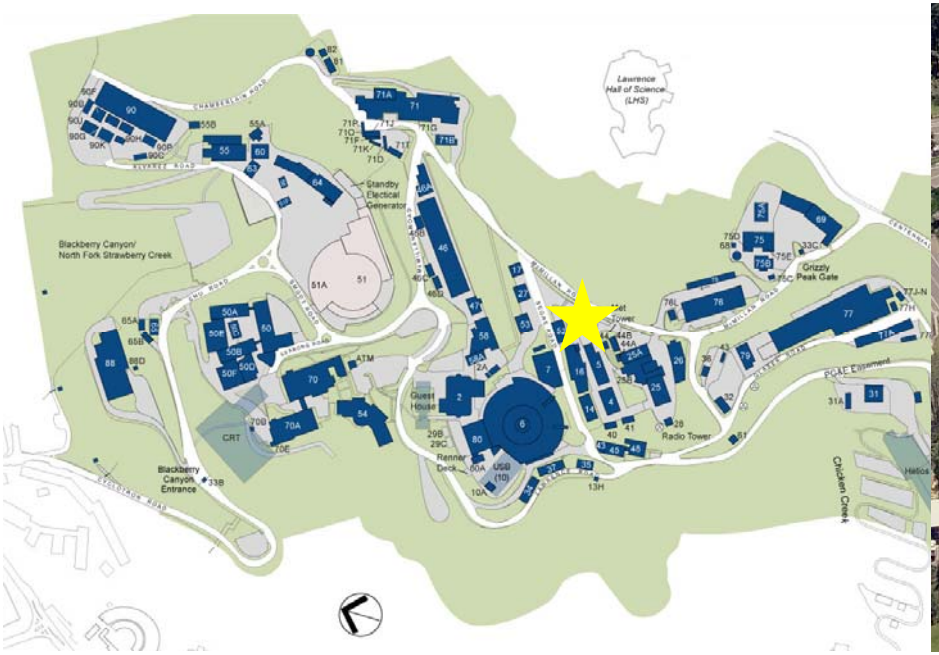
Old Town Demolition Project

- Demolish Old Town buildings that are past their useful life
- $40M+
- 74,600 GSF of buildings demolished
- Relocates 140+ staff
- Restores ~3 acres
- 3-4 year project duration
- Starting Phase 1 characterization and utility isolation work



Solar Energy Research Center

- Would construct three story, 38,000 GSF wet laboratory and office facility
- $54M
- Design starting March 2010
- Environmental evaluation starting March 2010
- Summer 2011 planned construction start, Fall 2013 planned occupancy
- Plan to meet LEED Silver
- Proposed at an infill site



Building 74 Modernization & Seismic Phase 2

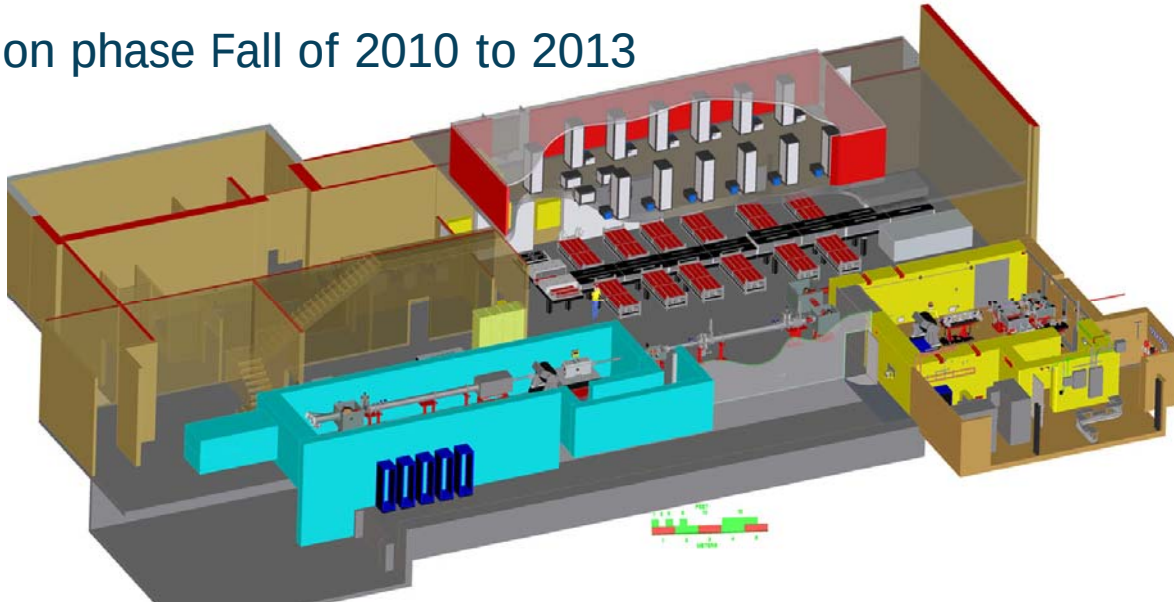
- Scope would:
  - Modernize Building 74
  - Construct a General Purpose Laboratory
  - Stabilize slope around Building 85
  - Demolish buildings (1 for 1 replacement)
- $97M
- Building 74 work is in construction; Building 25 demo is out for bid; GPL, Building 85 slope stabilization and demo are in design, all work to be complete FY15
- CEQA/NEPA complete for Building 74 work; CEQA/NEPA in draft for Seismic Ph2
- Will meet LEED Gold
- New construction proposed at an infill site

Seismic Phase 3

- Scope would:
  - Modernize Building 26 (medical services)
  - Modernize or replace Building 54 (food service and conference center)
  - Seismically upgrade Fire House
  - Construct a General Purpose Laboratory
  - Demolish buildings as required (1 for 1 replacement)
- $93M
- Conceptual design study may begin FY11; design may begin FY12; all work complete FY18
- Plan to meet LEED Gold
- New construction would be proposed at infill sites

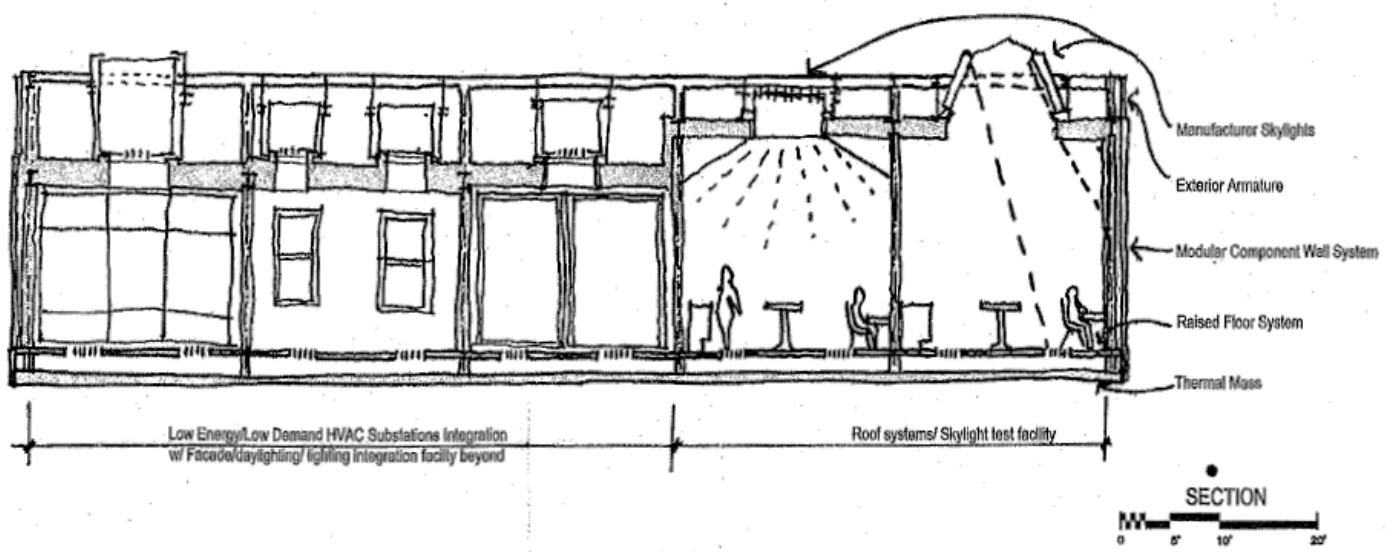
BELLA – Berkeley Lab Laser Accelerator

- Compact energy beam accelerator for scientific and technological research
- Will ensure US competitiveness for next decade
- Scope
  - 1 Petawatt, 1 cycle/second laser system
  - Focusing optics beam line
  - Personnel and equipment protection systems
  - Facility to support safe operation: Laser-bay, Utility Room, Control Room, and radiation-shielded Experimental Cave
- To be located within Building 71
- $27.2M
- Currently in design; construction phase Fall of 2010 to 2013

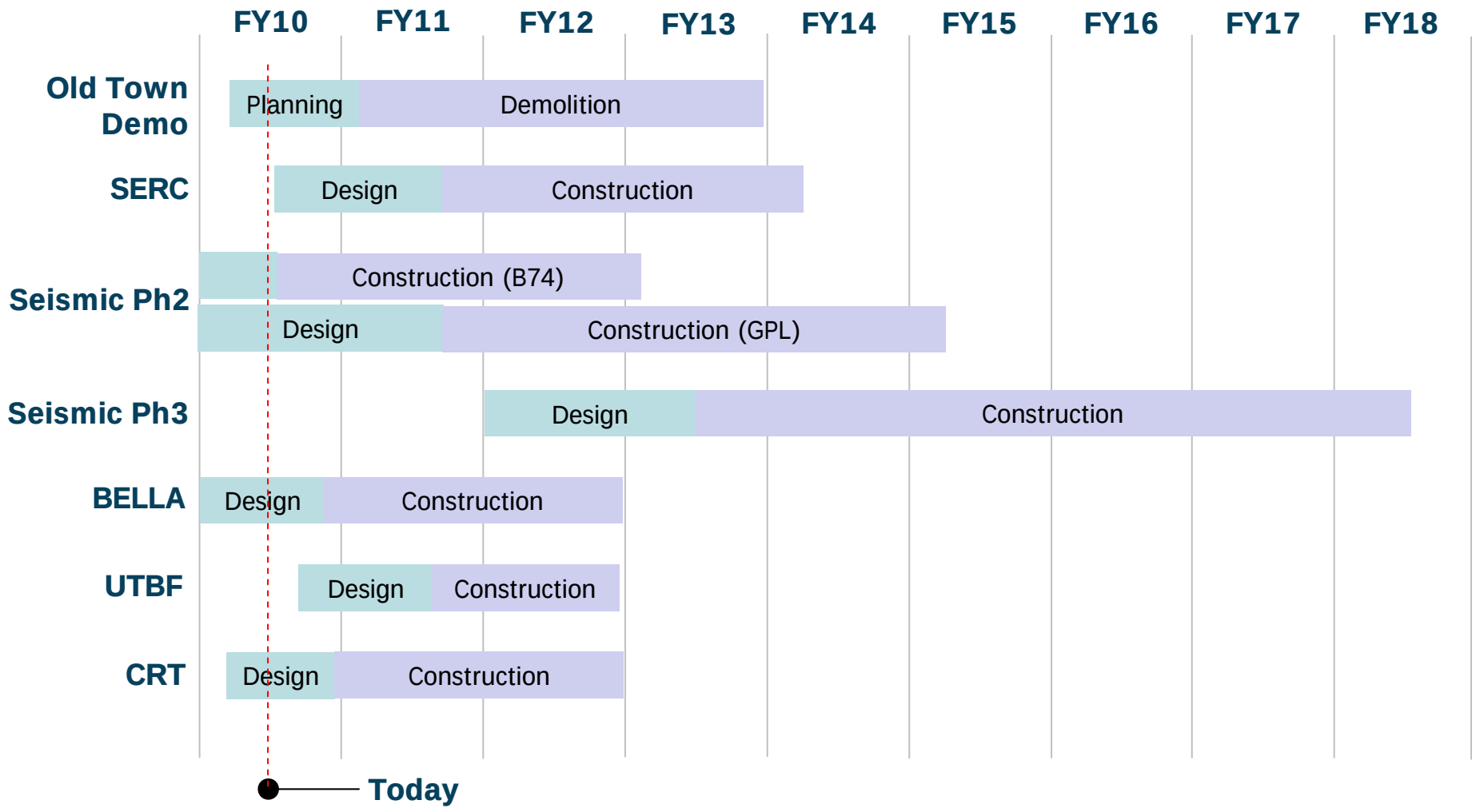


User Test Bed Facility

- National User Facility for Net-Zero Energy Buildings Research
- Scope would construct:
  - Integrated test-beds for testing building technologies under controlled conditions
  - High-density instrumentation of environmental conditions in occupied office space
  - Building controls design and visualization laboratory
  - Virtual design laboratory to simulate building life-cycle performance
- $15.9M
- Project site to be determined: infill or renovation
- Design may start in July 2010; construction may start May 2011
- Estimated completion September 2012



Computational Research & Theory Facility

- Would construct four story, 126,000 GSF facility with High Performance Computing and office/conference room space
- $113M
- Design is underway; NEPA is underway; CEQA is complete
- Construction may start Fall 2010; occupancy is planned for Spring 2013
- Would meet LEED Silver

Projected Timelines