RICHMOND BAY CAMPUS



Long Range Development Plan
Community Workshop

October 4, 2012

LBNL AND UC BERKELEY IN PARTNERSHIP

A Shared Vision:

"A state-of-the-art, inspirational and sustainable place to produce world-class collaborative science for healthy living and sustainable communities"

RICHMOND BAY CAMPUS: OBJECTIVES

EXCELLENCE	Support the science, research, and teaching objectives of LBNL, UC Berkeley and synergistic partners.
CHARACTER	Respect and enhance the unique character of the site.
MODEL	Be a model of inclusion, healthy living, and sustainability.
PLACE	Integrate the campus with the City of Richmond physically and programmatically.
ACCESS	Ensure easy access from LBNL and UC Berkeley; regional transit; and bicycle / pedestrian pathways.
GROWTH	Plan to accommodate up to 5.4 M sq ft of modern R&D facilities and 10,000 people phased in over 40-years.
RESILIENCE	New non-traditional partnerships to build resiliency for LBNL, UC Berkeley, and locally.

CITY OF RICHMOND SOUTHERN GATEWAY

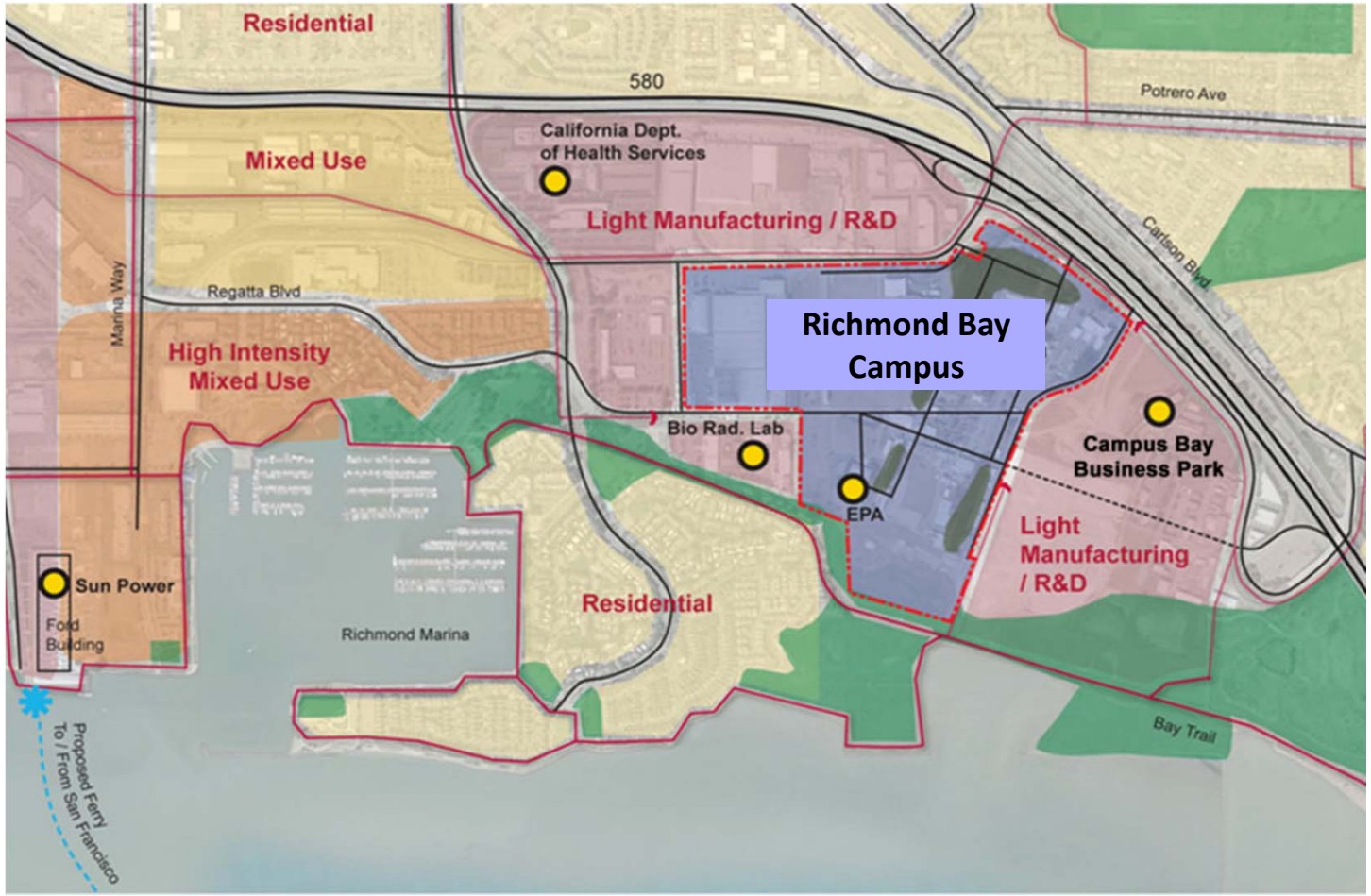
- Center for innovation
- Catalyst for other research facilities – public and private
- Support for broader economic revitalization
- Resource for open space and education

CITY OF RICHMOND GENERAL PLAN: SOUTHERN GATEWAY

- Vibrant mix of new and existing uses
- Anchored by Richmond Bay Campus
- Protection of ecologically-sensitive areas
- Local and regional road and trail connections

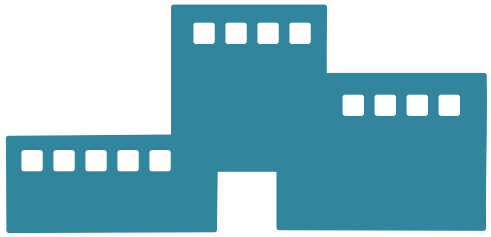
Upcoming:

- South Richmond Specific Plan and Transportation Connectivity Plan



DEVELOPMENT PROGRAM

Long-Term potential -- multiple phases over ~40 years:



Up to 5.4 M square feet
and a population of 10,000

Possible Uses:

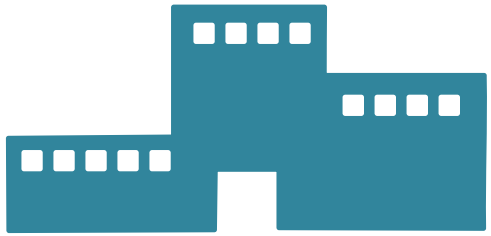
- Research labs
- Offices, Conference space
- Dining / Cafes
- Auditorium / Visitor center
- Operations facilities
- Parking
- Outdoor space

Population:

- LBNL and UC Berkeley research scientists and faculty
- Graduate and post-doctoral students
- Undergraduate students and interns
- Administrative staff
- Operational staff

DEVELOPMENT PROGRAM

Proposed First Phase:



Up to 300,000 square feet for LBNL Biosciences consolidation with a potential total of 800,000 square feet.

Possible Uses:

- Bioscience labs
- Offices
- Food service
- Multi-purpose conference space
- Parking

Possible Programs:

- Joint Genome Institute
- Joint BioEnergy Institute
- Advanced Biofuels Process Dev.
- Life Sciences
- Earth Sciences

Start of Operations: 2017 – 2020

Timing of additional development and phases not established.

SCALE COMPARISONS

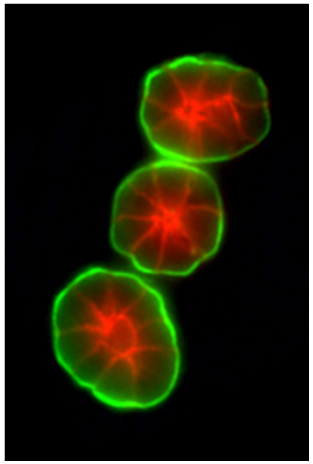
RBC and UC Berkeley core campus (180 acres)

RBC and UCSF Mission Bay (43 acres)

RICHMOND BAY CAMPUS RESEARCH GOALS

The discovery of solutions for 21st century challenges to energy, environment, human health, and the global economy.

- Emphasis on bioscience solutions for
  - Carbon-neutral fuels
  - Reduced human environmental footprint
  - Improved human health
- Sustainable transportation
- Advanced manufacturing and design
- Commercializing technology research



OUR ASPIRATIONS FOR RICHMOND BAY CAMPUS

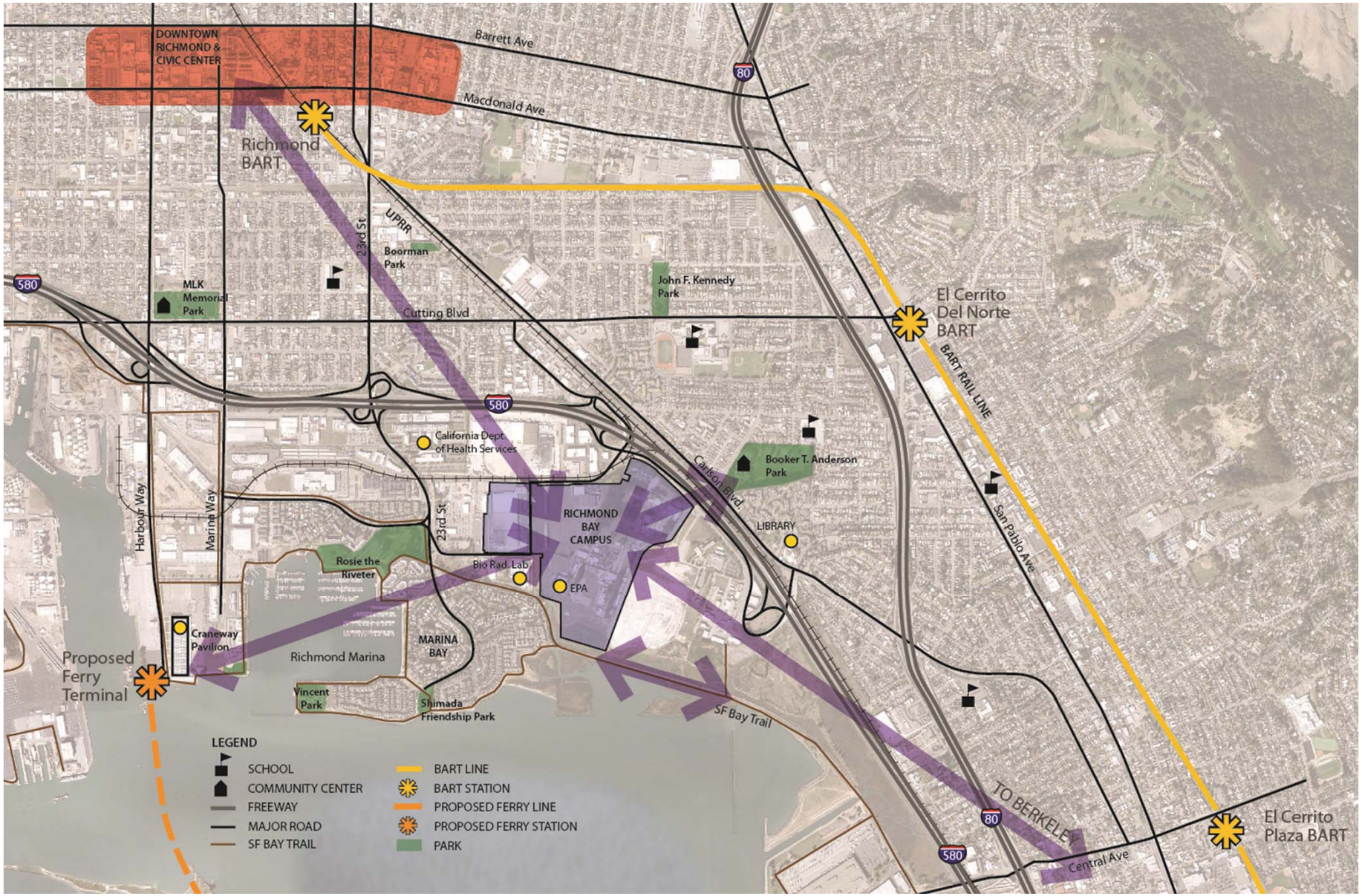
- An open campus design to encourage community access
- Positive economic impact for local businesses
- Education programs
- Incorporating local art at the site
- Connections to the Bay Trail

SITE CONTEXT AND CONDITIONS

RICHMOND BAY CAMPUS SITE

- Total acres: 195
- Upland acres: 136
- 81 structures
- 1.05 million GSF
- Population of 300
- Existing activities:
  - Research
  - Offices
  - Storage

CONNECTIONS



SITE FEATURES

- Grasslands
- Wetlands
- Eucalyptus trees
- Animal life
- Drainage channel
- SF Bay Trail
- Views

SITE FEATURES AND VIEWS






LAND USE MAP

Upland Natural Open Space : 27 acres

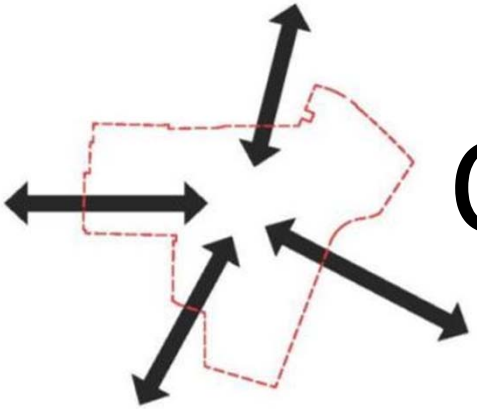
Research, Education & Support: 106 acres

CAMPUS PRINCIPLES AND SCHEMES

2010 CONCEPT PLAN FOR THE RICHMOND BAY CAMPUS

- LBNL and UCB co-produced the plan
- 3-6 M GSF development capacity

PHYSICAL PLANNING PRINCIPLES



Connectivity

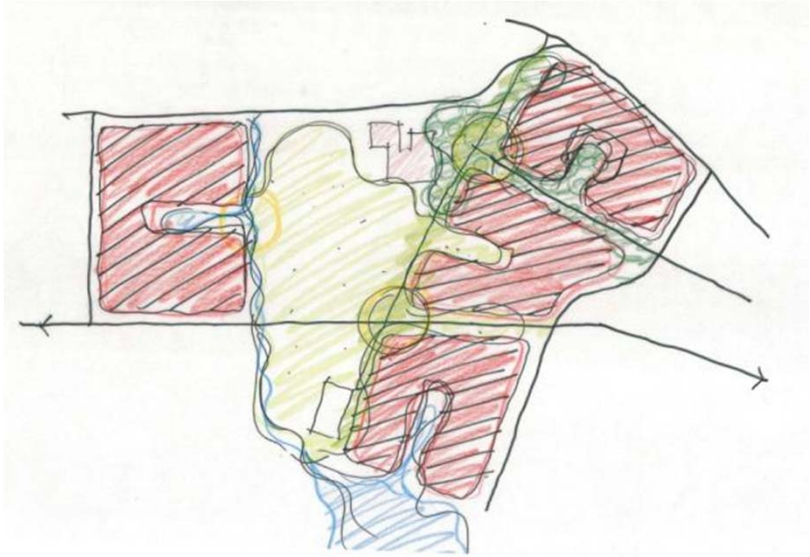
- **Community access** – open campus, inviting, community facilities, multiple arrival points
- **Gathering places** to promote interaction, recreation, reflection
- Organized into **neighborhoods** with comfortable scale, distinct districts, flexibility, integrated expansion
- **Multi-modal access** to/from surrounding community, downtown Richmond, BART stations, Bay Trail
- Support of City of Richmond goals for **neighboring sites**
- **Connections** to LBNL, UC Berkeley

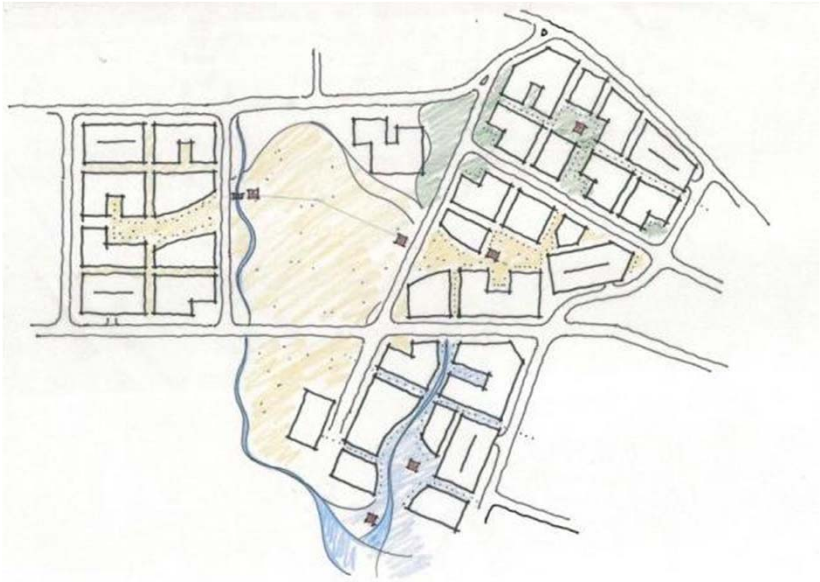
PHYSICAL PLANNING PRINCIPLES

Sustainability

- **Compact Development** – walkability, interaction, reduced footprint, limited roads
- **Sense of Place** – draw on and enhance the site's natural features (grasslands, water, woodlands, stream)
- Showcase sustainable design and operations and develop the site as a **living classroom and lab**
- **Building design**, materials and orientation
- Energy and water **efficiency**
- Environmental procurement and waste policies
- Transportation alternatives, managed parking demand
- Clean up of legacy pollutants

PLAN STUDIES





PEDESTRIAN / BIKE NETWORK

LEGEND

- **Street with Pedestrian & Bike Amenities**
- **Primary Campus Pedestrian Corridor**
- **Multi-use Pathway**
- **San Francisco Bay Trail**

VEHICULAR CIRCULATION AND PARKING

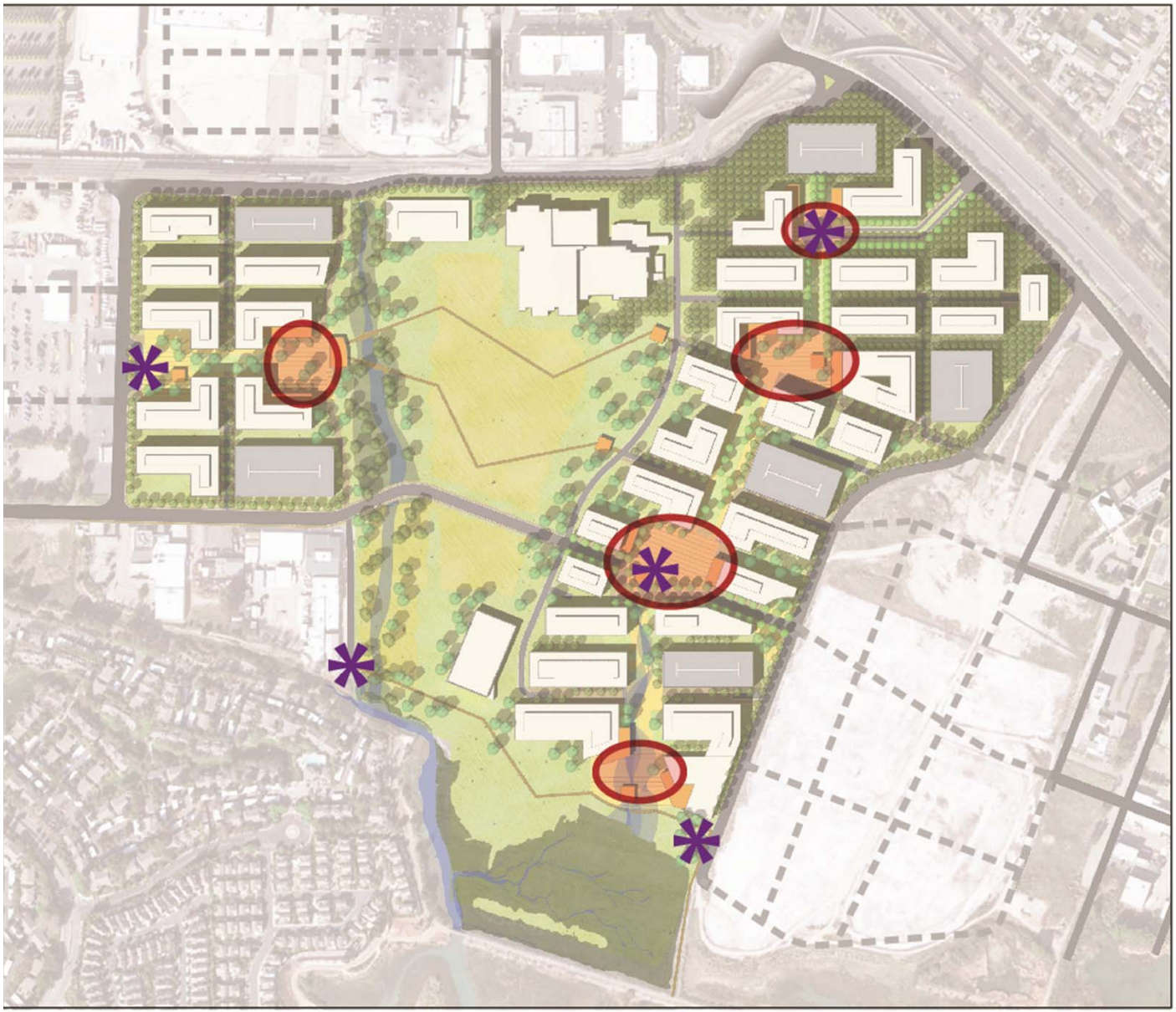
LEGEND

- Major Public Road
- Minor Road
- Campus Service Access
- Main Campus Entry
- Major Campus Shuttle Stop
- Parking Structure

ACTIVITY ZONES

LEGEND

- **Campus Activity Zone**
- **Primary Community Access Point**



OPEN SPACE

LEGEND

- **Campus Gathering Space**
- **Primary Campus Pedestrian Corridor**
- **Natural Open Space**

NEIGHBORHOODS

LEGEND

Neighborhood

Connecting Space

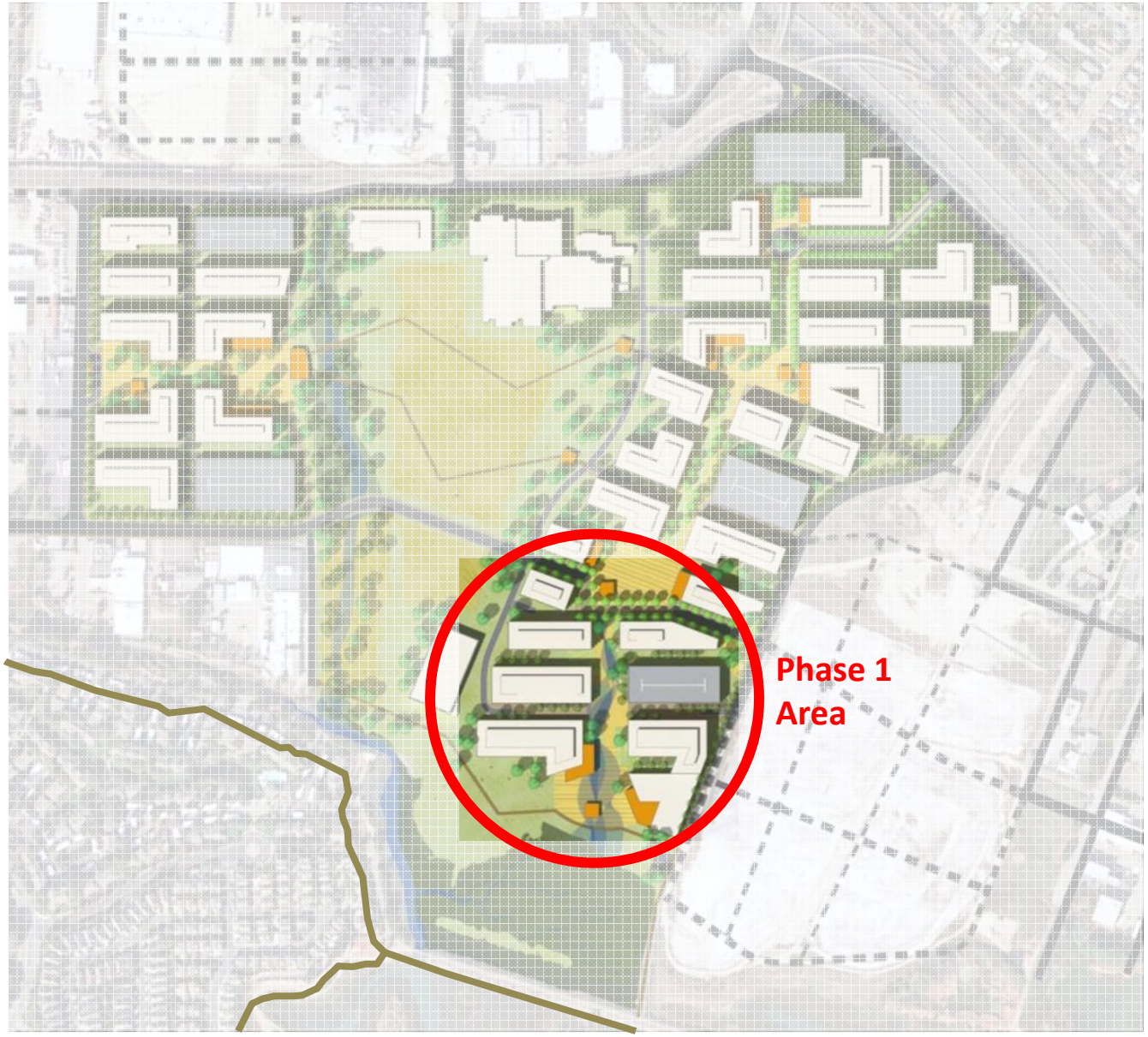
CONCEPT PLAN – PROPOSED PHASE 1

Phase 1 Area:
16 acres

2017 to 2020:
Up to 600,000 GSF

Possible Programs:

- Joint Genome Institute
- Joint BioEnergy Institute
- Advanced Biofuels
- Life Sciences
- Earth Sciences



DRAFT CONCEPT PLAN

5.4 M sq ft

- Distinct walkable neighborhoods
- Shared activity zones
- Diversity of open edges and public access points
- Multi-modal grid connected to surrounding streets/trails
- Distinct visitor arrival experience
- Deflects wind; creates sheltered spaces
- East-west solar building orientation

FUTURE SCIENTIFIC FACILITY

- Unique, large scale scientific facilities support national and international science
- Richmond site has flexibility to accommodate a scientific facility up to 3,000' long in the future

CAMPUS CHARACTER

BUILDING DESIGN – PREFERRED IMAGES

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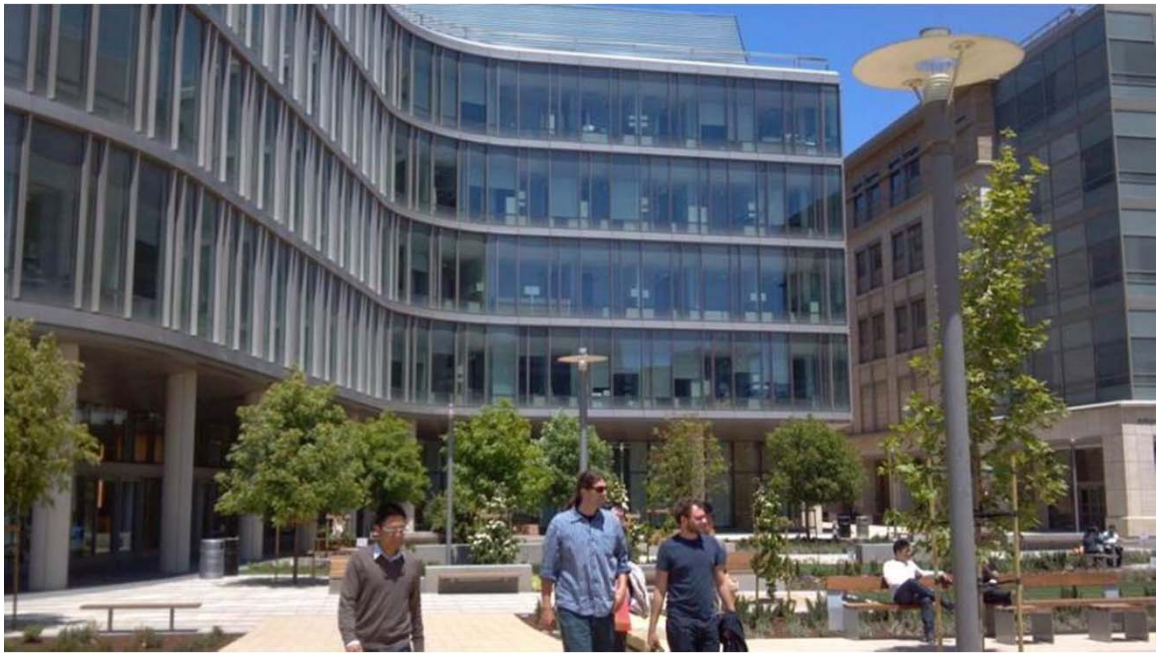
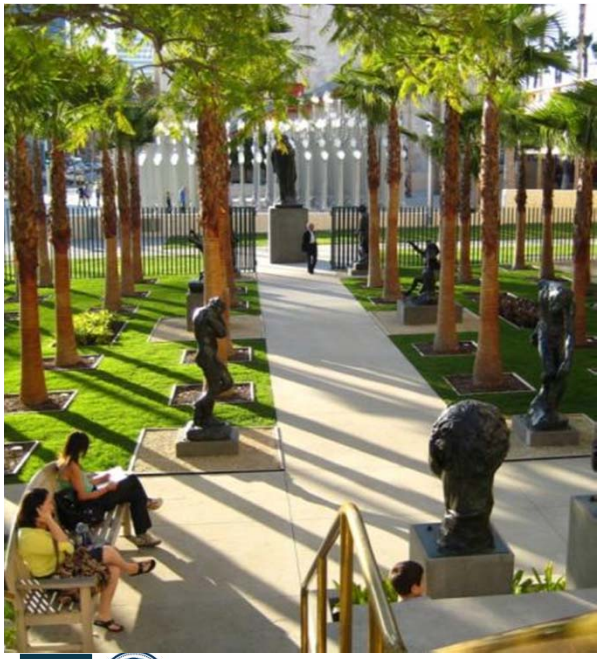


SITE DESIGN – PREFERRED IMAGES



PUBLIC ART AND EDUCATIONAL OPPORTUNITIES

SCHEDULE AND NEXT STEPS

TIMELINE GOING FORWARD

- Nov – Dec 2012 Next Community meeting on LRDP
- Feb 2013 Community Draft LRDP Review
- April – June 2013 Community Draft comment period
- Nov 2013 LRDP submitted to UC Regents for approval

IDEAS TABLES

- Education and Community Wellness
- Jobs and Business Opportunities
- Planning and Community Input
- Remediation and Restoration
- Science at the Richmond Bay Campus
- Site Character
- Specific Plan and Connectivity
- Sustainability