

**Association of University Architects
56th Annual Conference
University of Wisconsin - Madison
Thursday, June 23, 2011**



MAKING CONNECTIONS

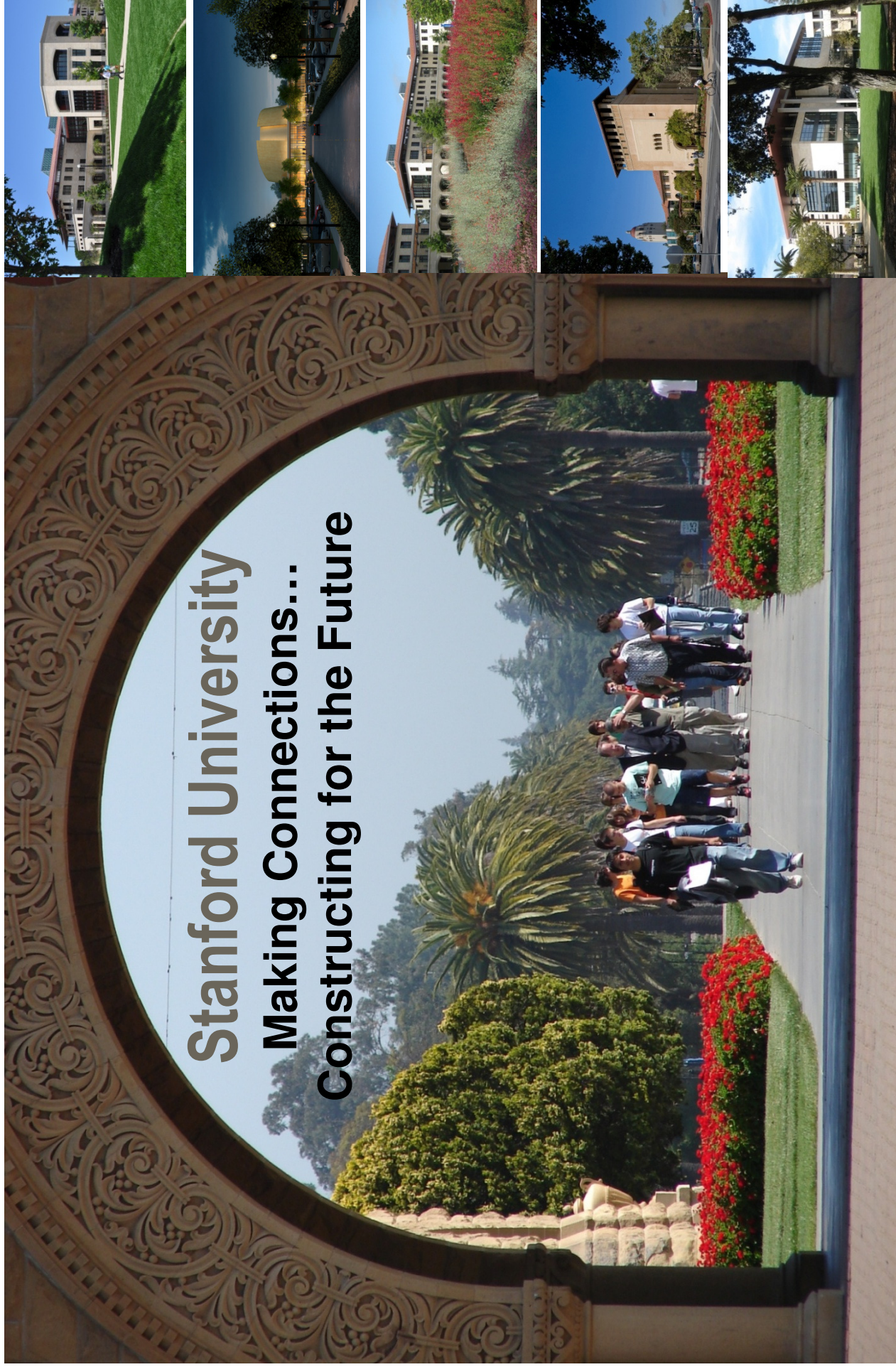


MAKING CONNECTIONS
UNIVERSITY OF WISCONSIN - MADISON

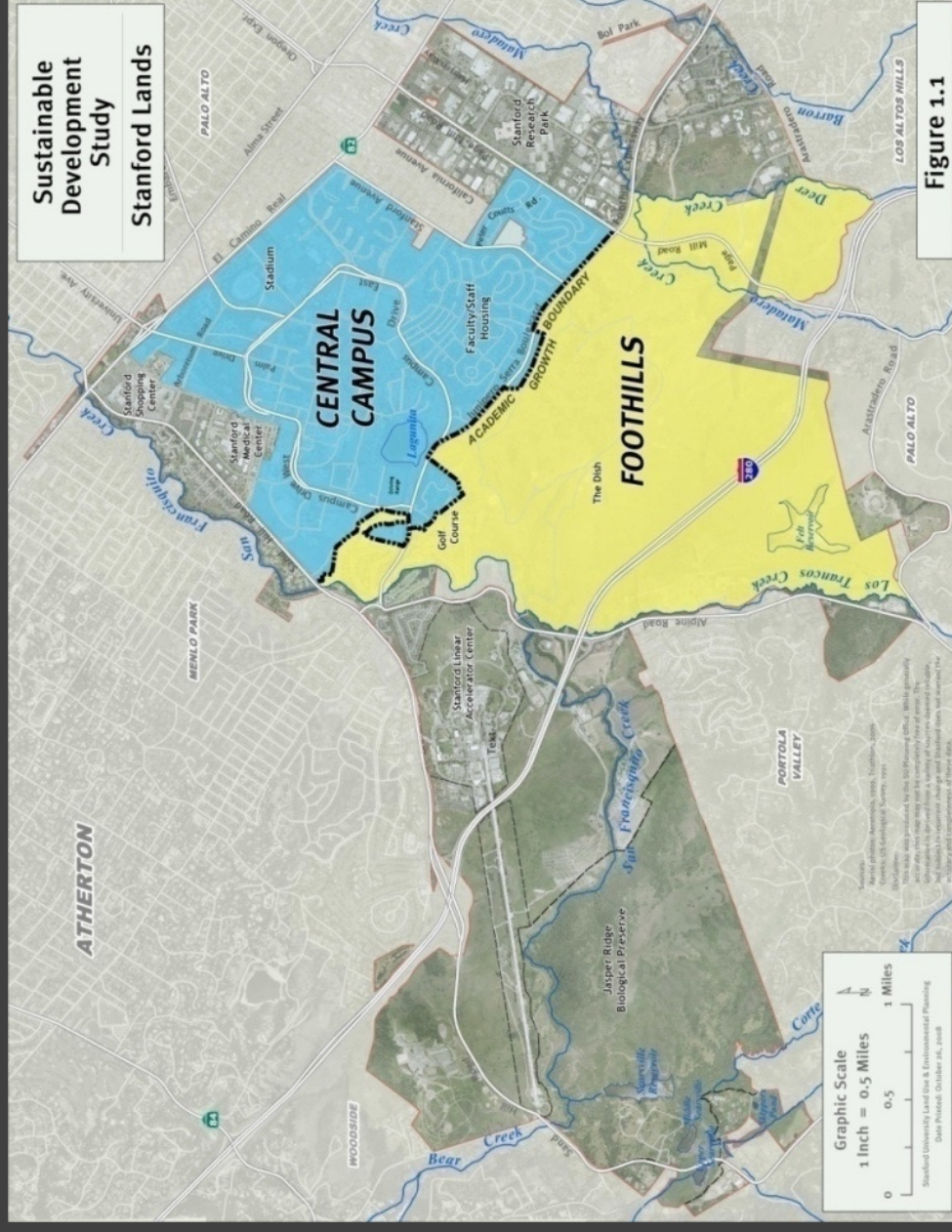
Stanford University

Making Connecting...

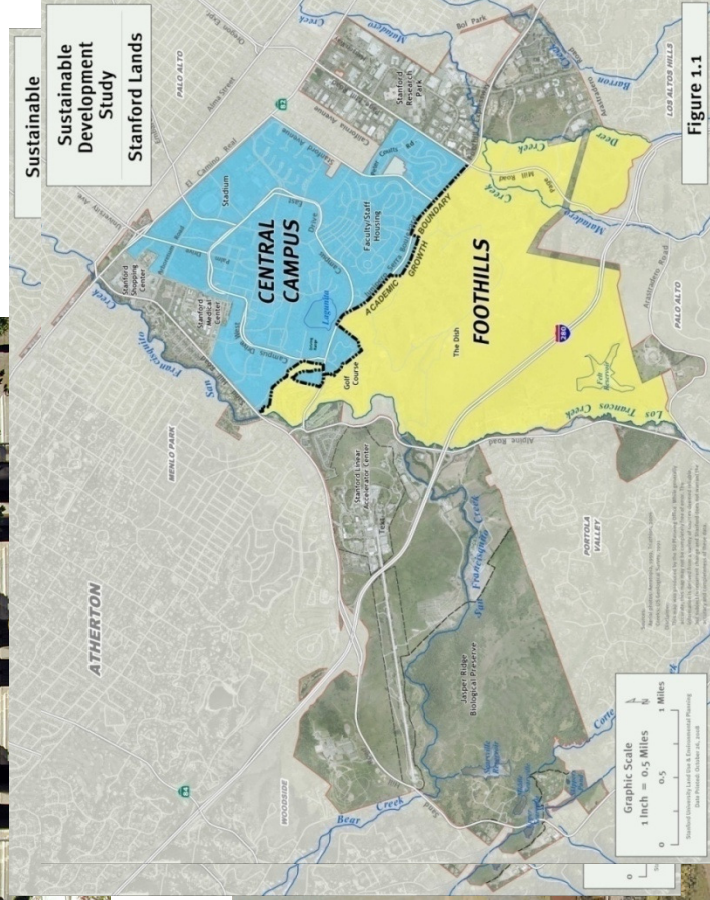
Constructing for the Future



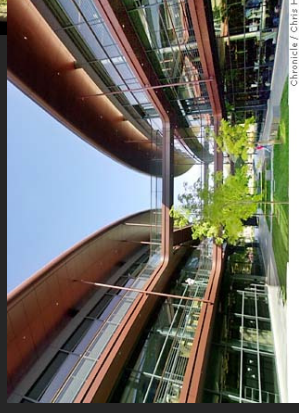
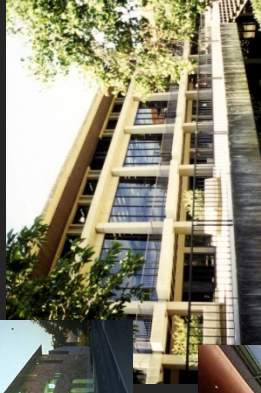
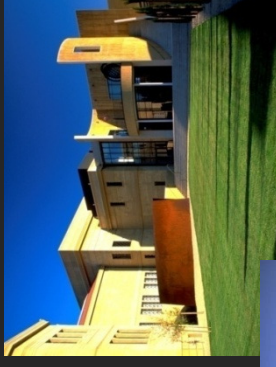
Stanford University Context



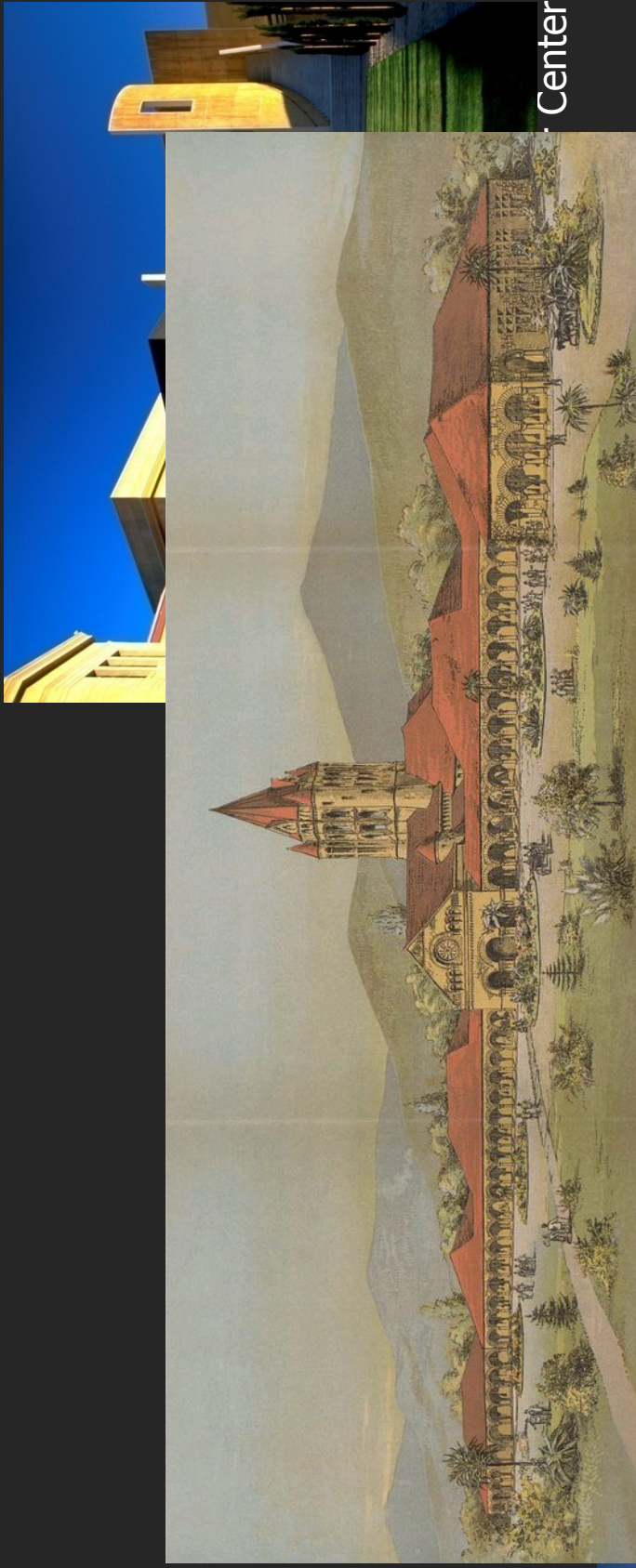
Context



Architectural Context



Context



Center

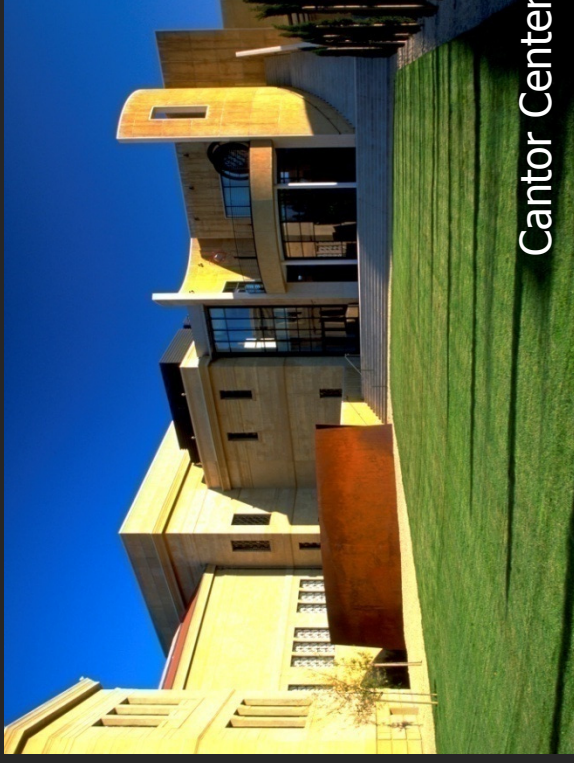


Paul Allen Building

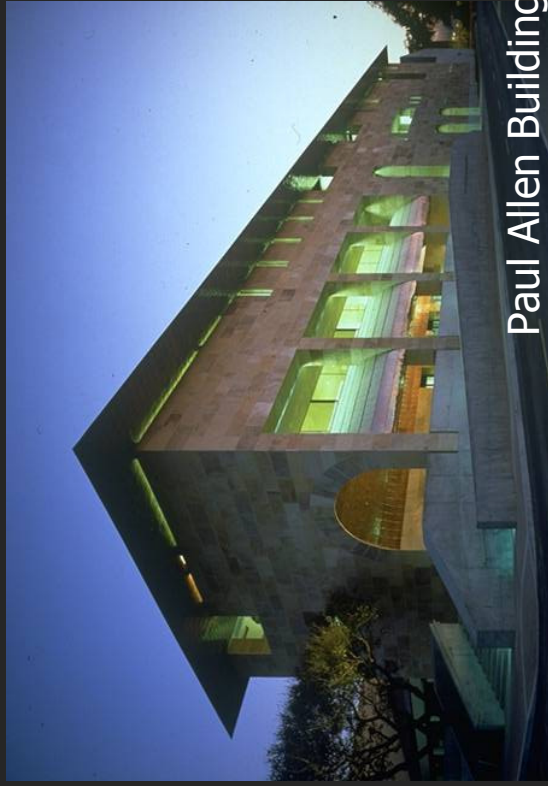
Context



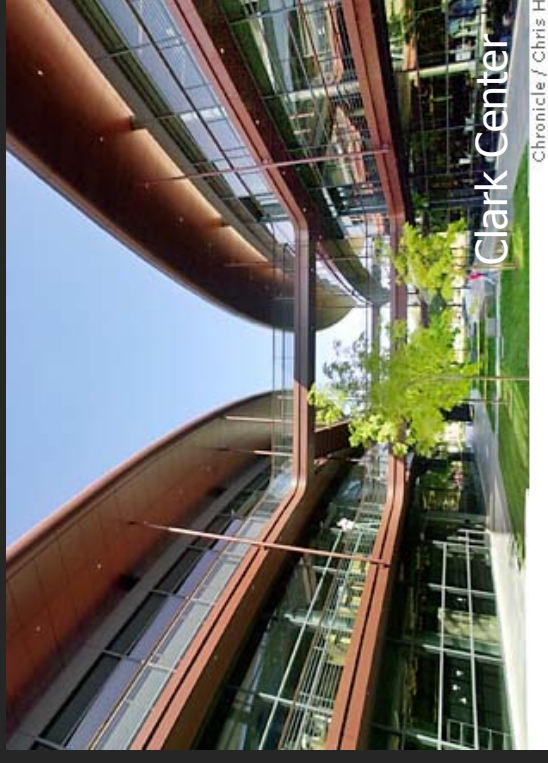
Schwab Graduate Center



Cantor Center



Paul Allen Building

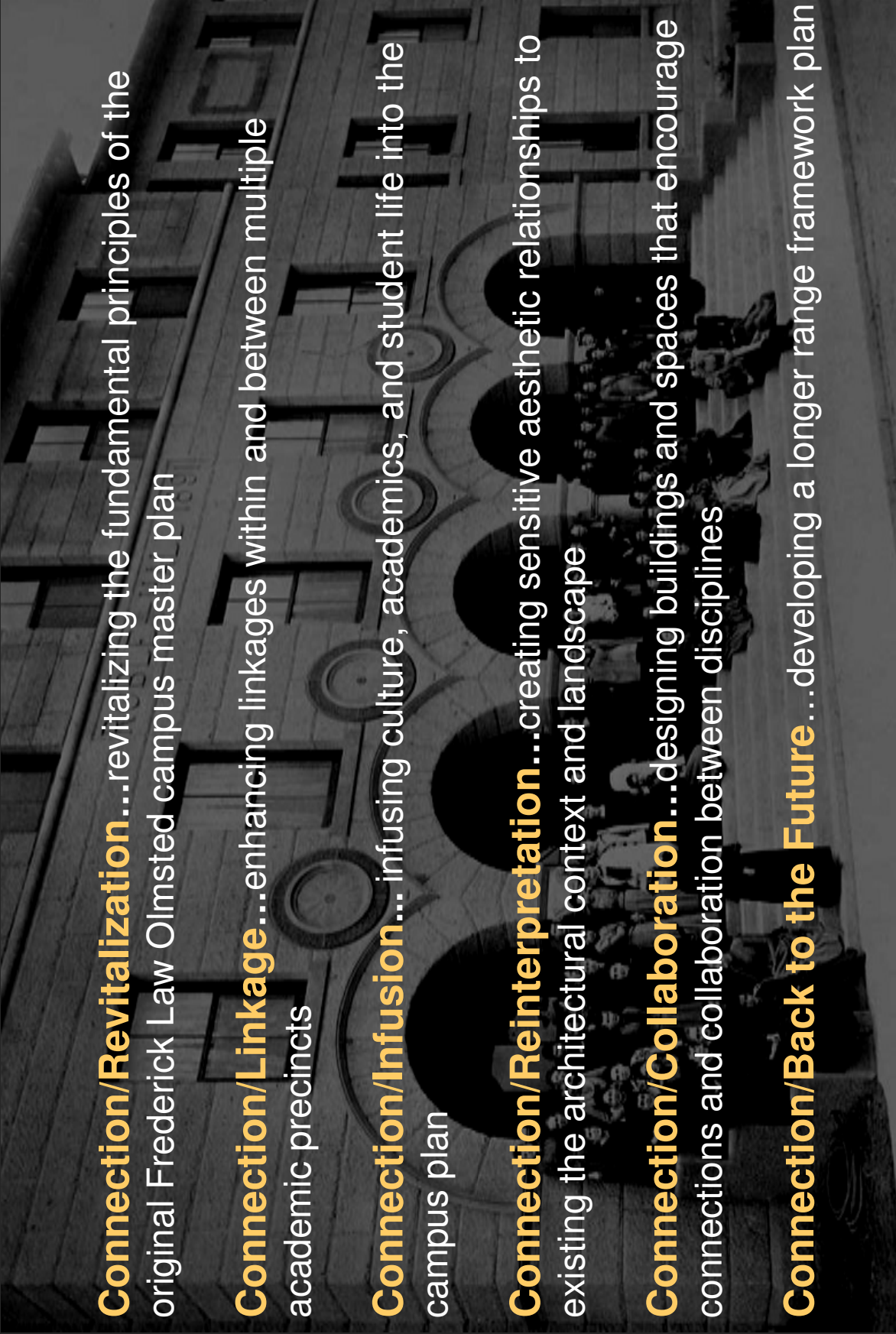


Clark Center

2010 Construction Metrics

In 2010, Stanford orchestrated an unprecedented volume of construction to implement the long range vision:

- Projects currently under construction: \$1.3B
- Projects over \$50M: 5
- FY10 invoice value: \$360M
- 38 projects received occupancy in FY10: \$651M
- 33 projects were financially closed in FY10: \$306M
- 36 projects will receive occupancy in FY11: \$501M
- 12 projects will receive occupancy in FY12: \$144M
- 10 projects still delayed/suspended list: \$579M



Connection/Revitalization....revitalizing the fundamental principles of the original Frederick Law Olmsted campus master plan

Connection/Linkage...enhancing linkages within and between multiple academic precincts

Connection/Infusion... infusing culture, academics, and student life into the campus plan

Connection/Reinterpretation...creating sensitive aesthetic relationships to existing the architectural context and landscape

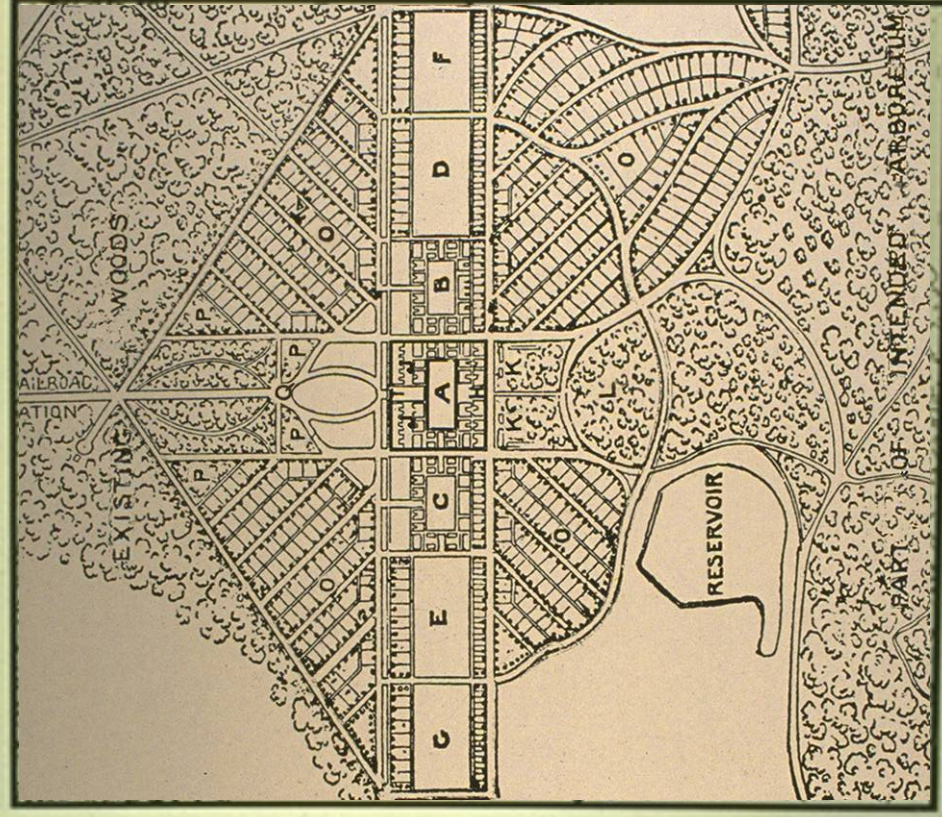
Connection/Collaboration....designing buildings and spaces that encourage connections and collaboration between disciplines

Connection/Back to the Future....developing a longer range framework plan



Connection/Revitalization

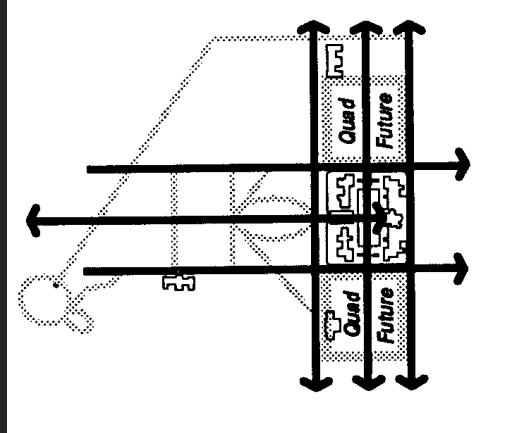
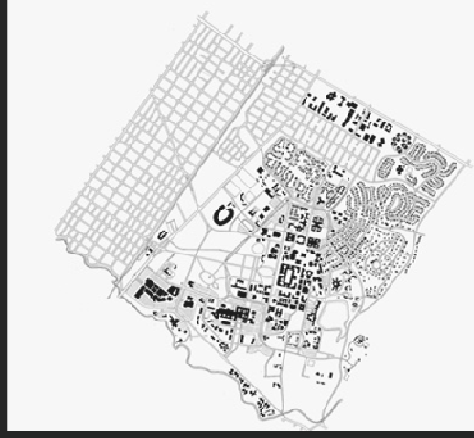
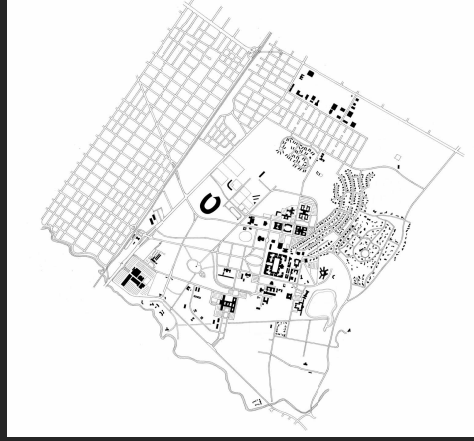
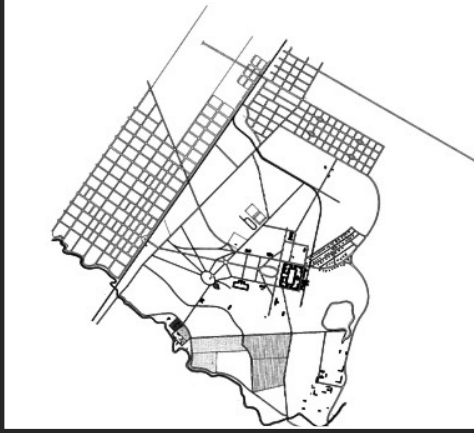
Connection/Revitalization



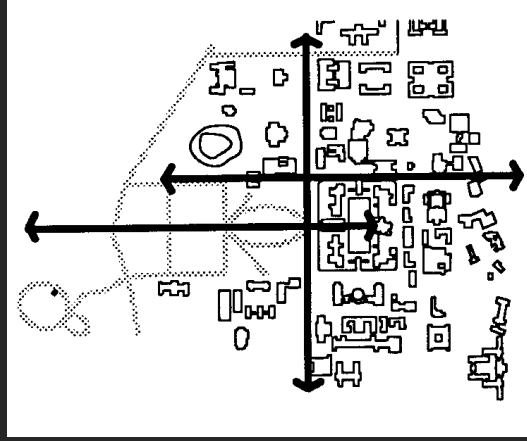
The Olmsted Plan

- A. The Central Quadrangle
- B & C. Sites for Adjoining Quadrangles
- D, E, F, G. Reserve Sites for Additional Quadrangles
- H. Site for University Church
- I. Site for Memorial Arch
- J. Sites for Libraries and Museums
- K. Site for Industrial Department
- L. Site for Botanic Garden
- O. Four Areas for Detached Dwellings and Gardens
- P. Four Sites for Secondary Schools
- Q-R. Main Entry from Proposed Train Station

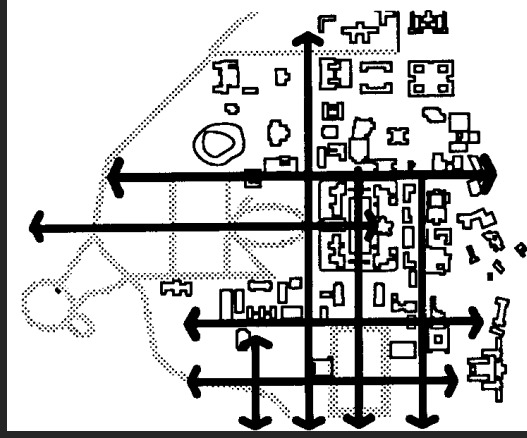
Connection/Revitalization



Original axes - 1891

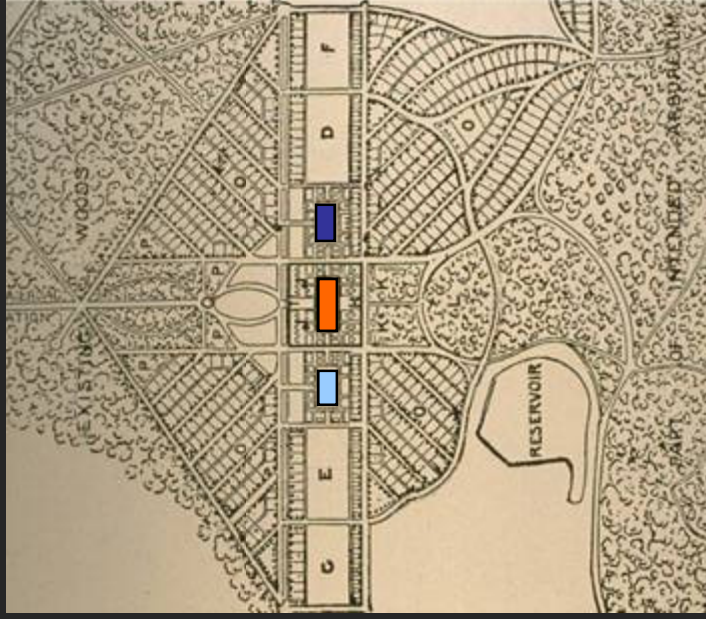


1990

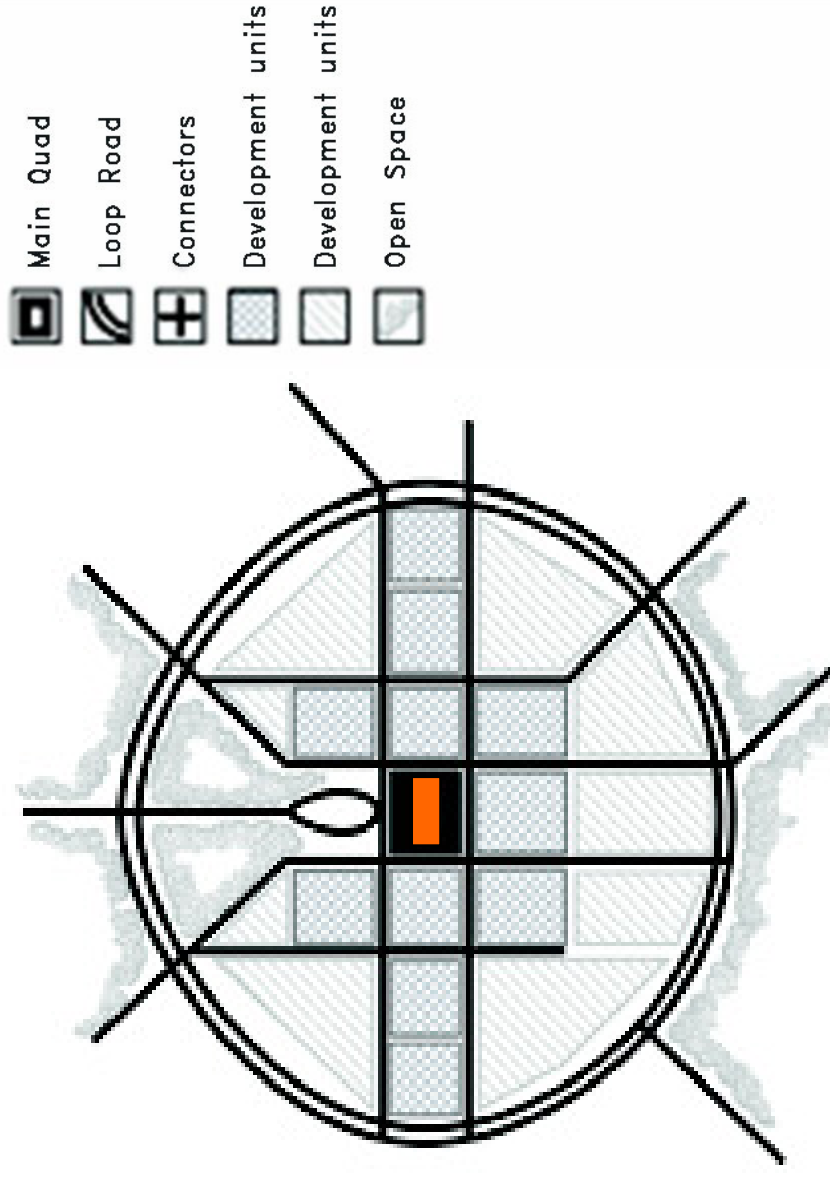


Restore

Connection / Revitalization



Original Olmsted Plan



Second Century Plan

Connection/Revitalization

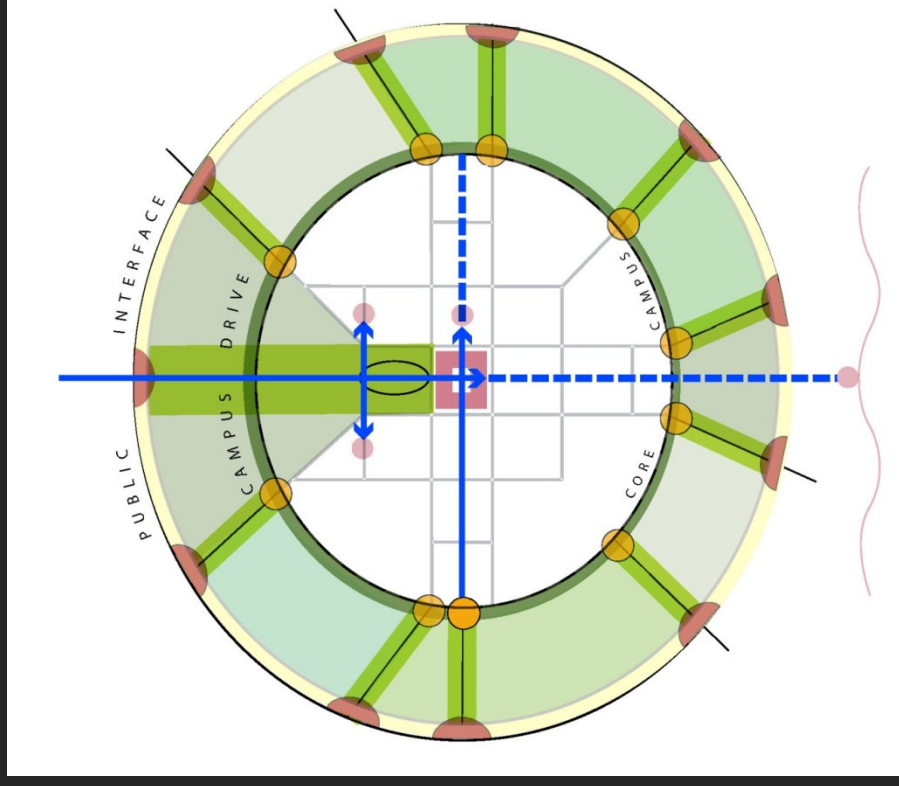
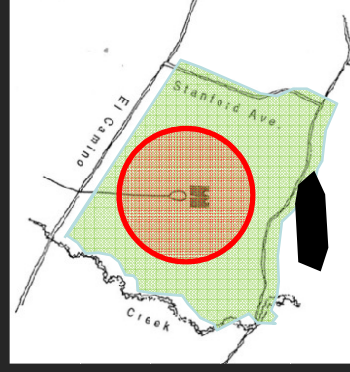
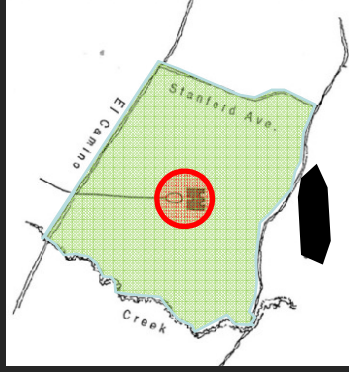
Campus Entry Study MAINTAIN STANFORD AS 'A PLACE APART'.

SUMMARY OF FINDINGS

- Stanford was founded as a place apart.
- **Undeveloped land helps maintain this buffer** along many of the entrances today with drifts of canopy trees and seasonal wildflowers.
- **The rural aesthetic is diminished today** by an abundance of inconsistent signage, unattractive views and unsightly adjacent land uses along many entrances.

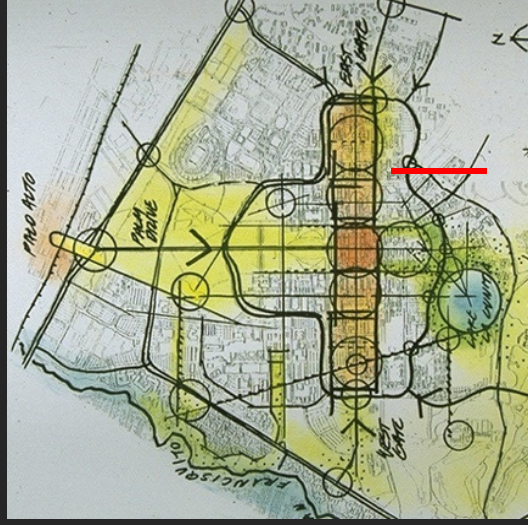
OVERALL OBJECTIVES

- Determine appropriate landscape buffer zones, setbacks, adjacent land uses and their landscape treatments.

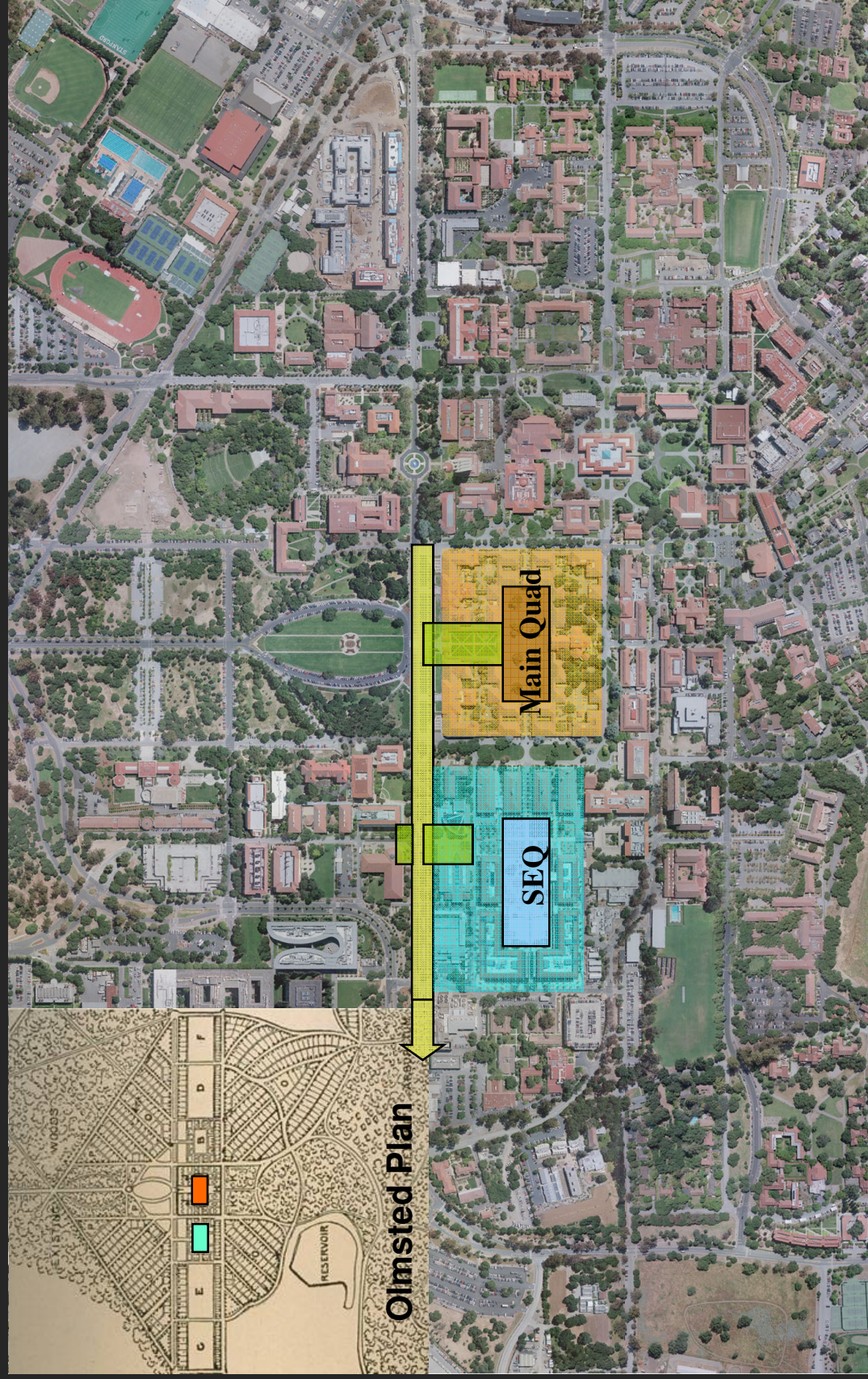


Connection/Disconnection ??

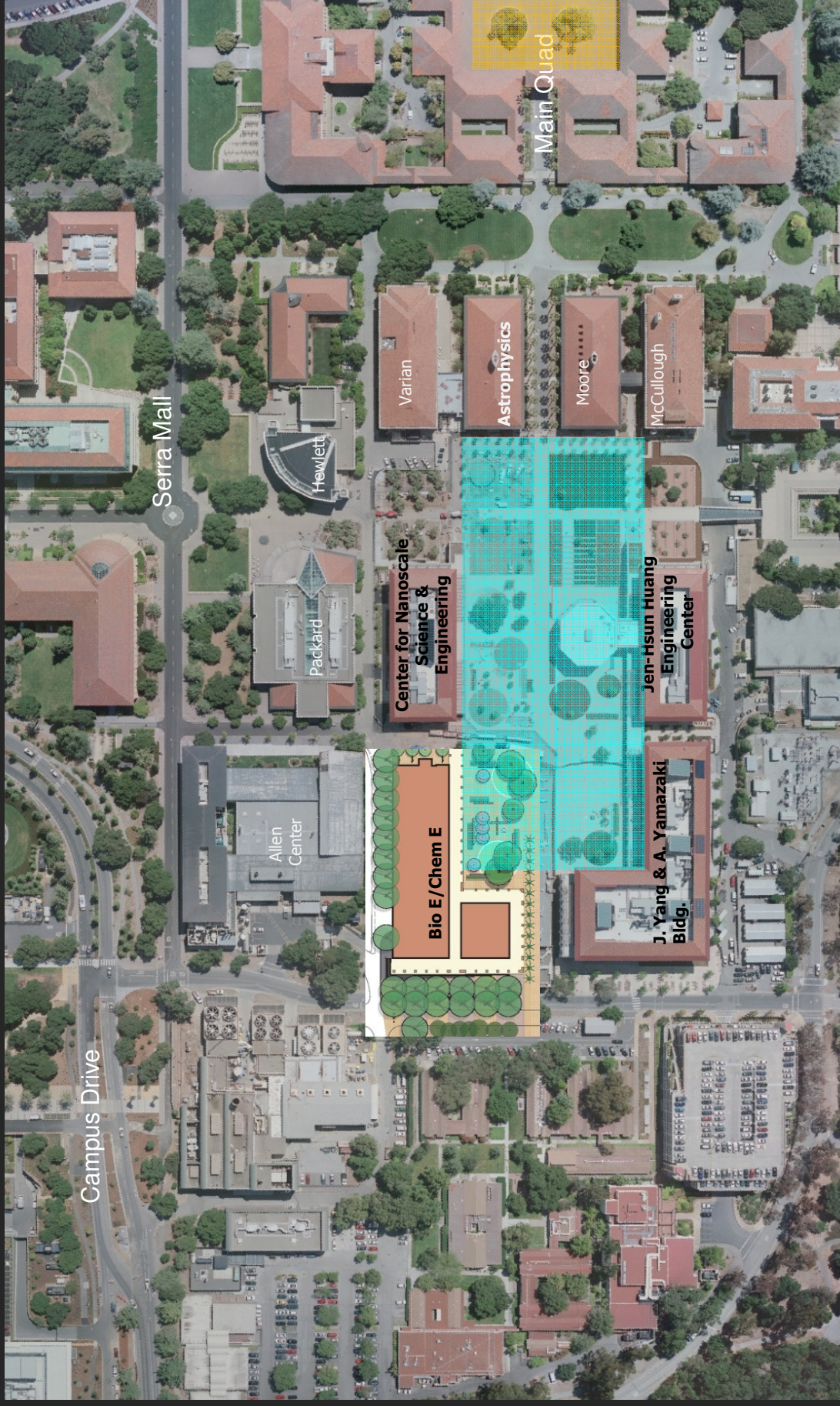
Connection / Revitalization



Connection/Revitalization



Connection/Revitalization



SEMC Projects in the Science and Engineering Quad (Astrophysics, Y2E2, Bioengineering/Chem E, Jen-Hsun Huang Engineering Center, Center for Nanoscale Science and Technology)

Connection / Revitalization



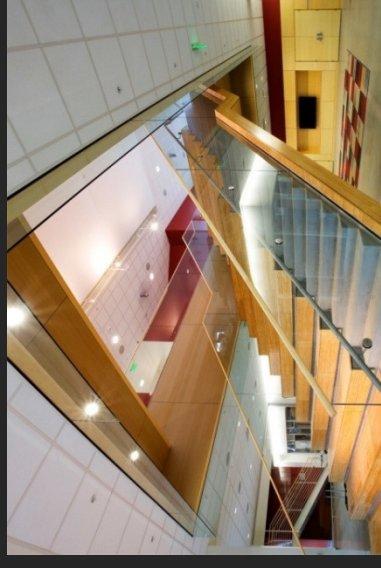
Science & Engineering Quad

Connection / Revitalization



Yang & Yamasaki Environment & Energy (Y2E2)... completed 2008

Connection / Revitalization



Jen-Hsun Huang Engineering Center.....completed 2010

Connection / Revitalization



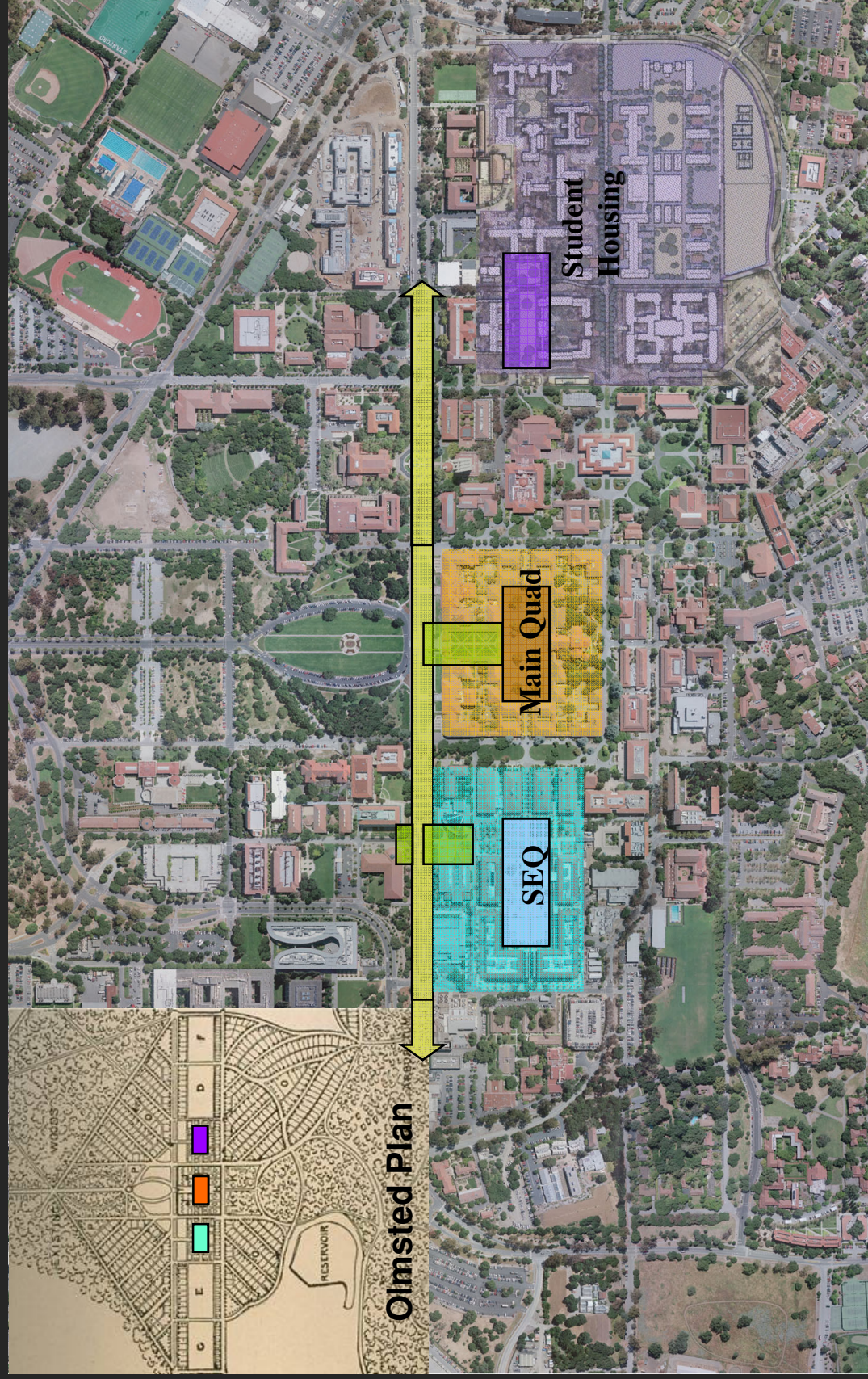
Center for Nanoscale Technology...completed 2010

Connection / Revitalization

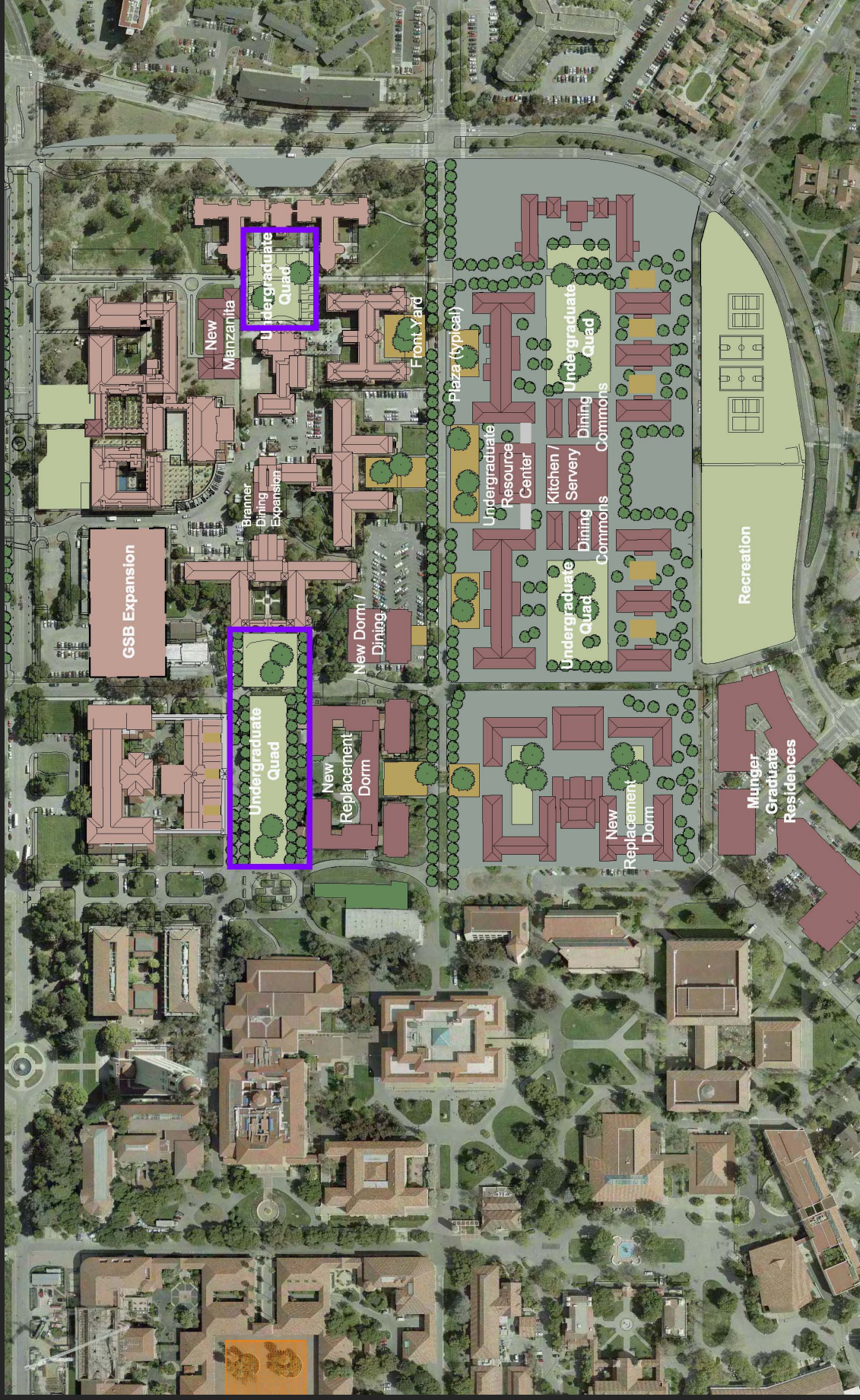


Bioengineering/Chemical Engineering Building...complete 2013

Connection/Revitalization



Connection / Revitalization

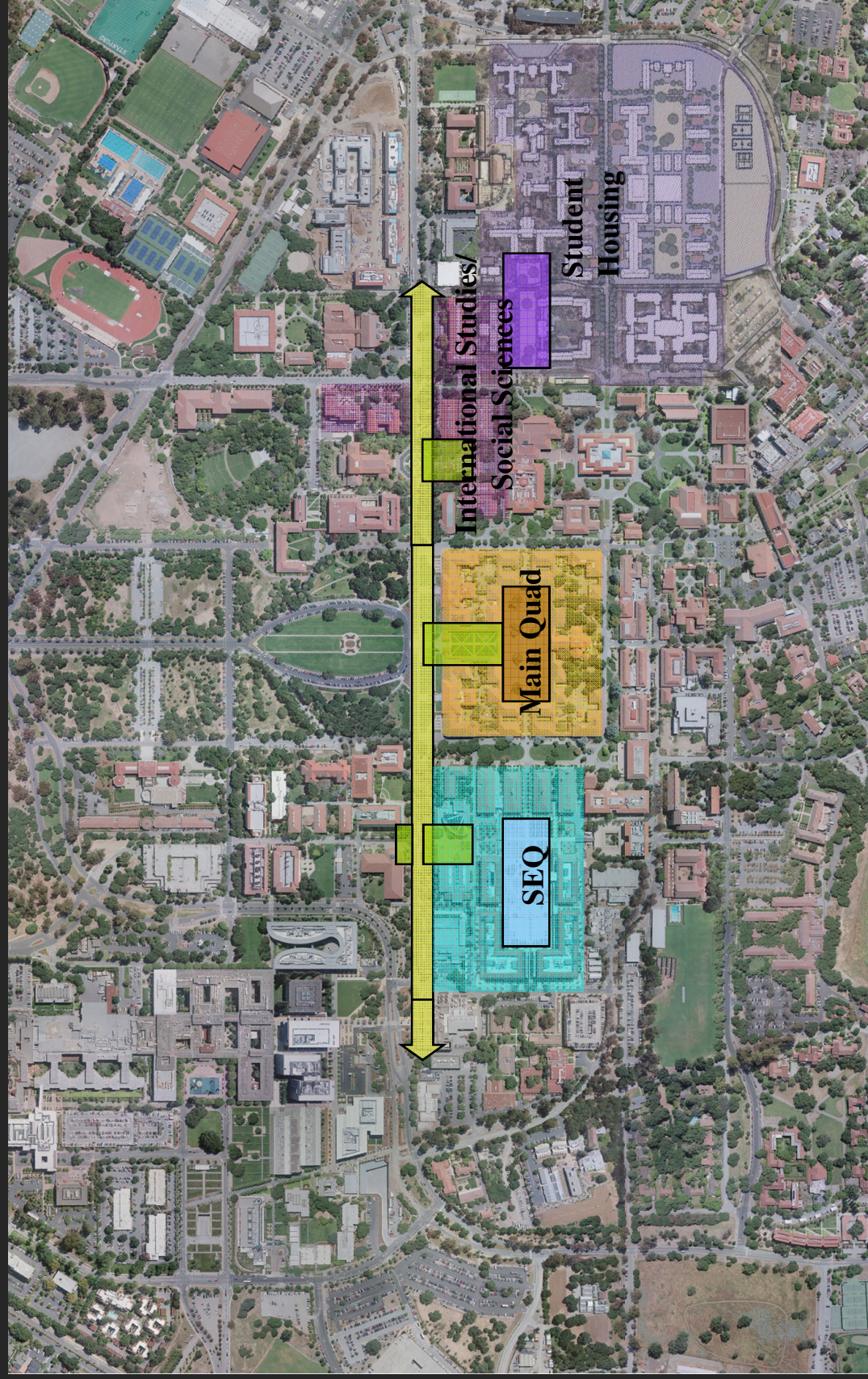


Connection / Revitalization



Future Dorm Quad

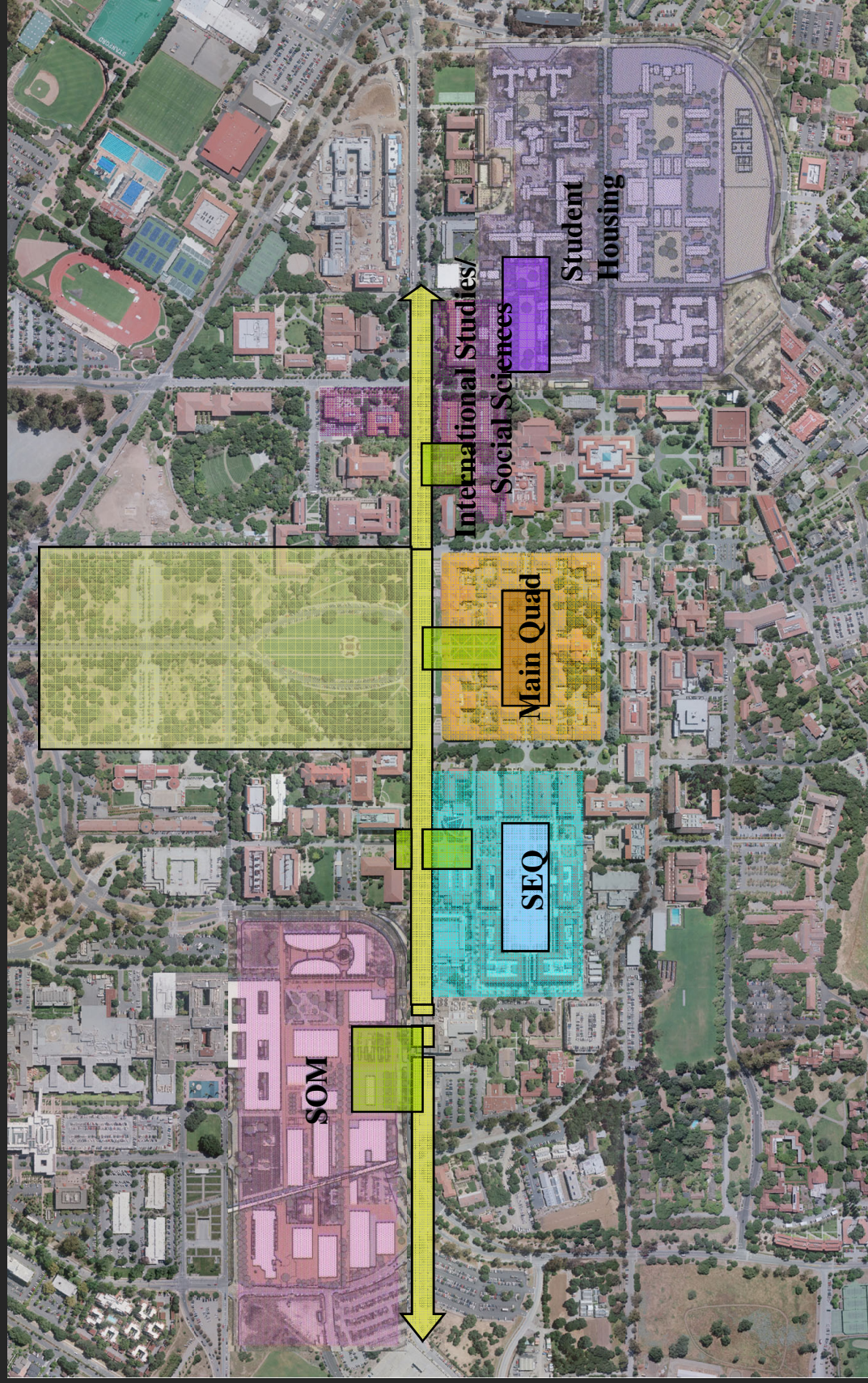
Connection / Revitalization



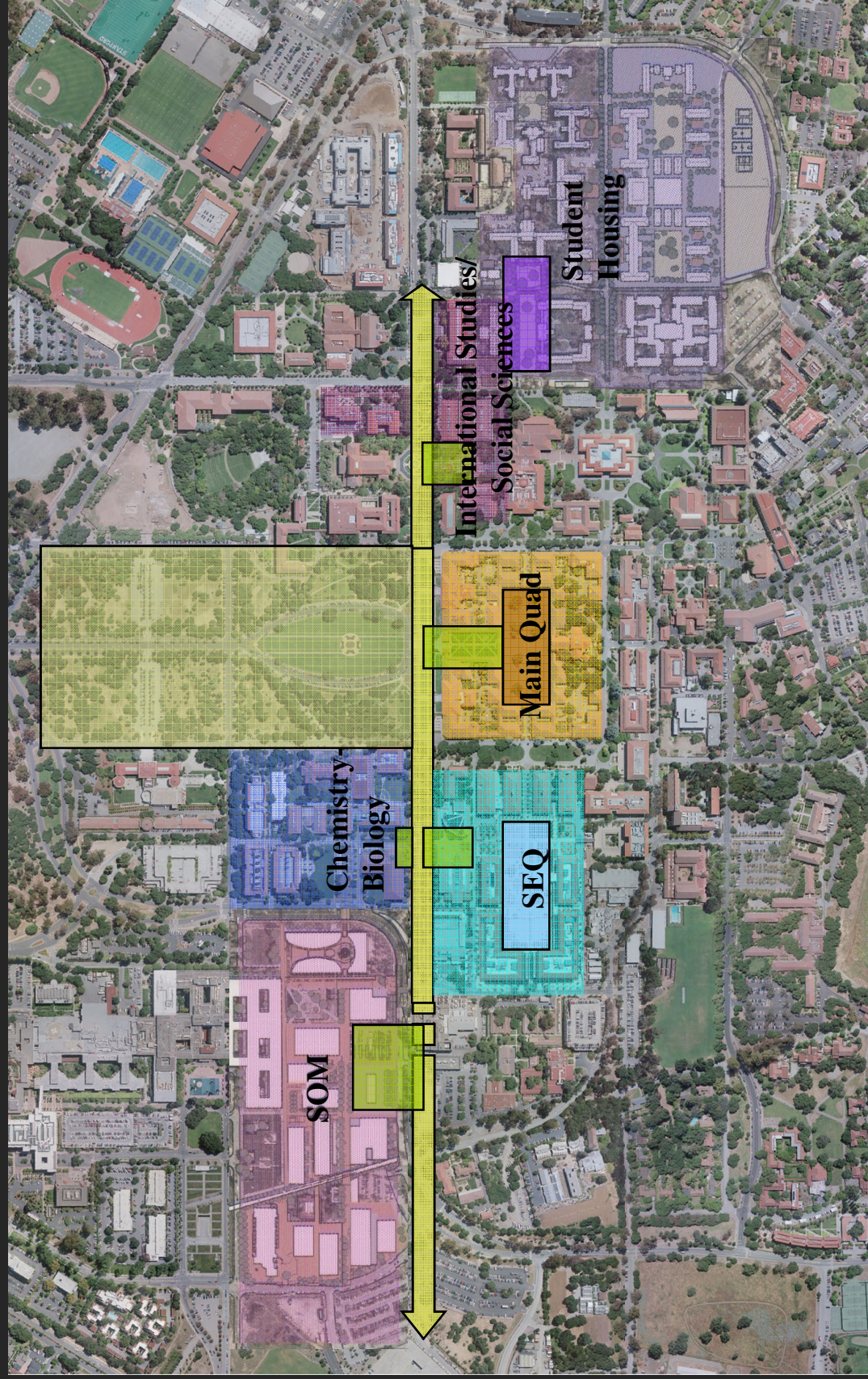


Connection/Linkage

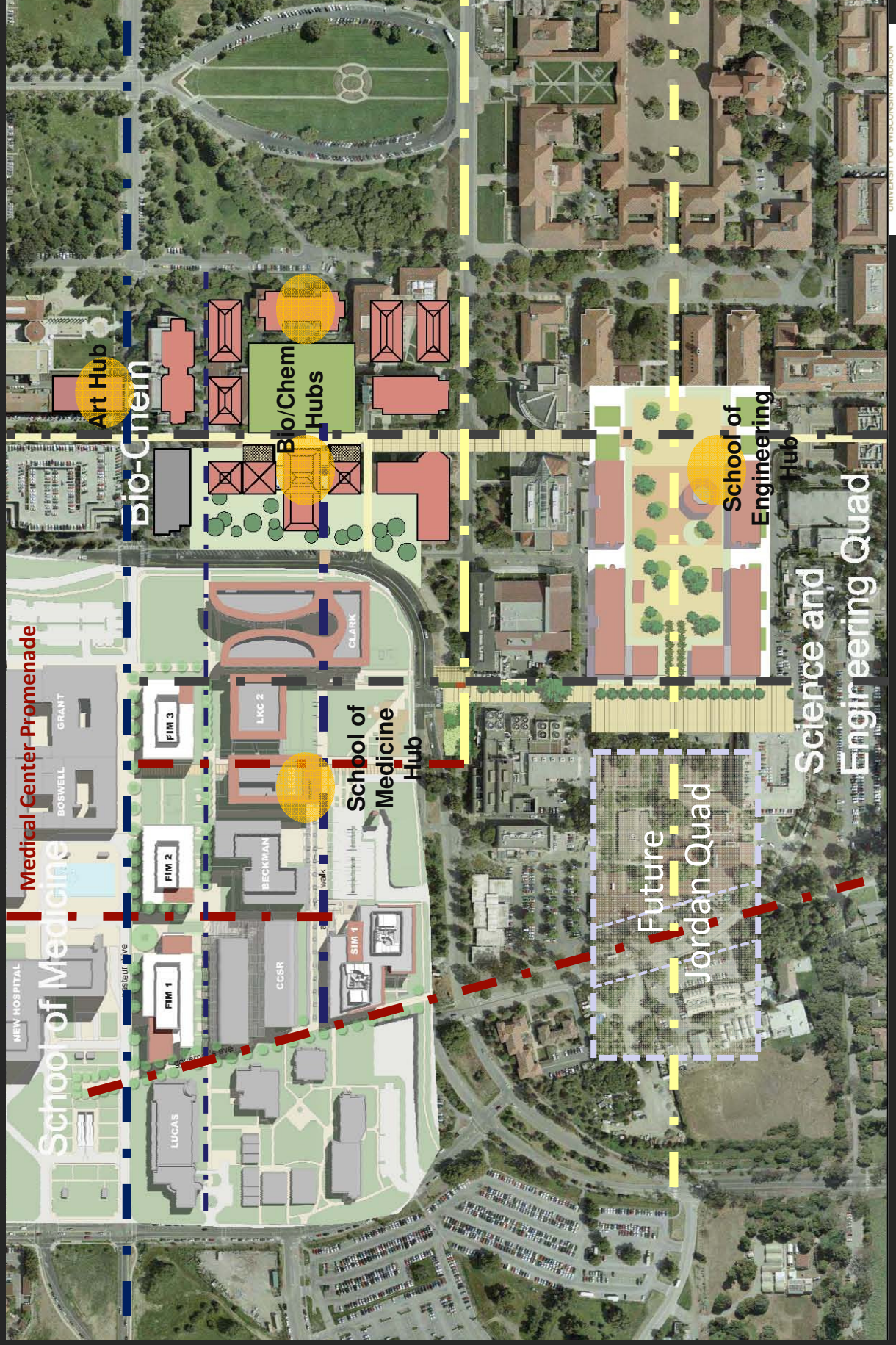
Connection/Linkage



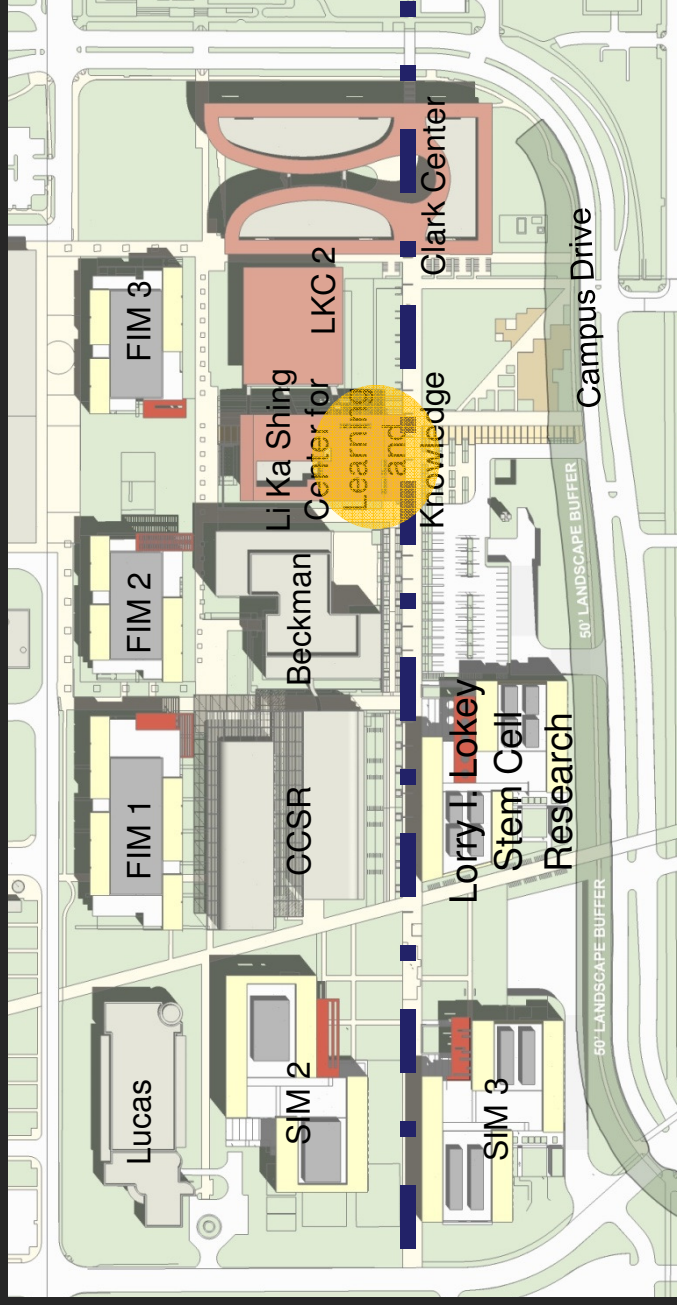
Connection/Linkage



Connection/Linkage



Connection/Linkage



Connection/Linkage



School of Medicine 'FRONT DOOR'....2009

Connection/Linkage



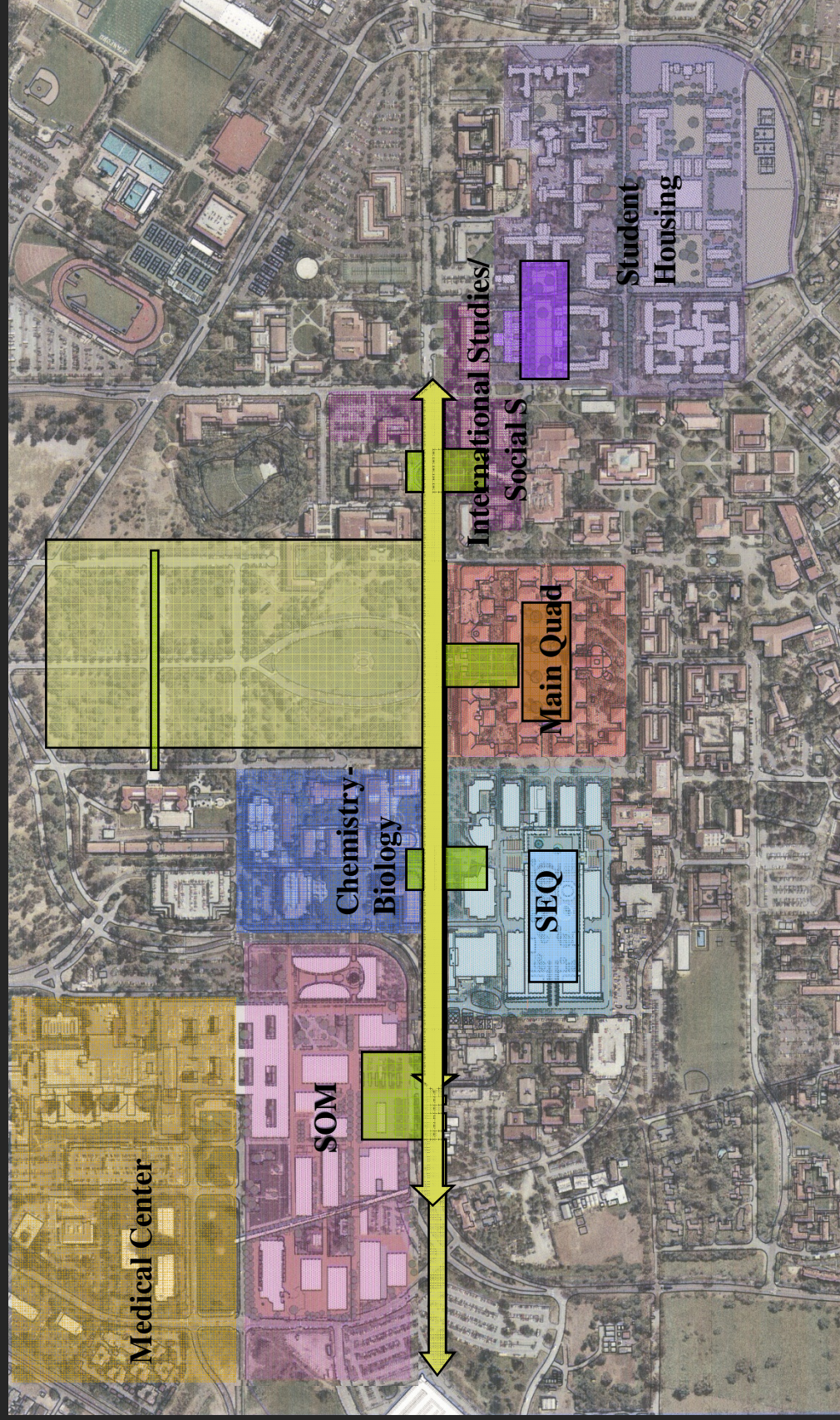
Li Ka Shing Center for Learning & Knowledge ...completed 2010

Connection/Linkage

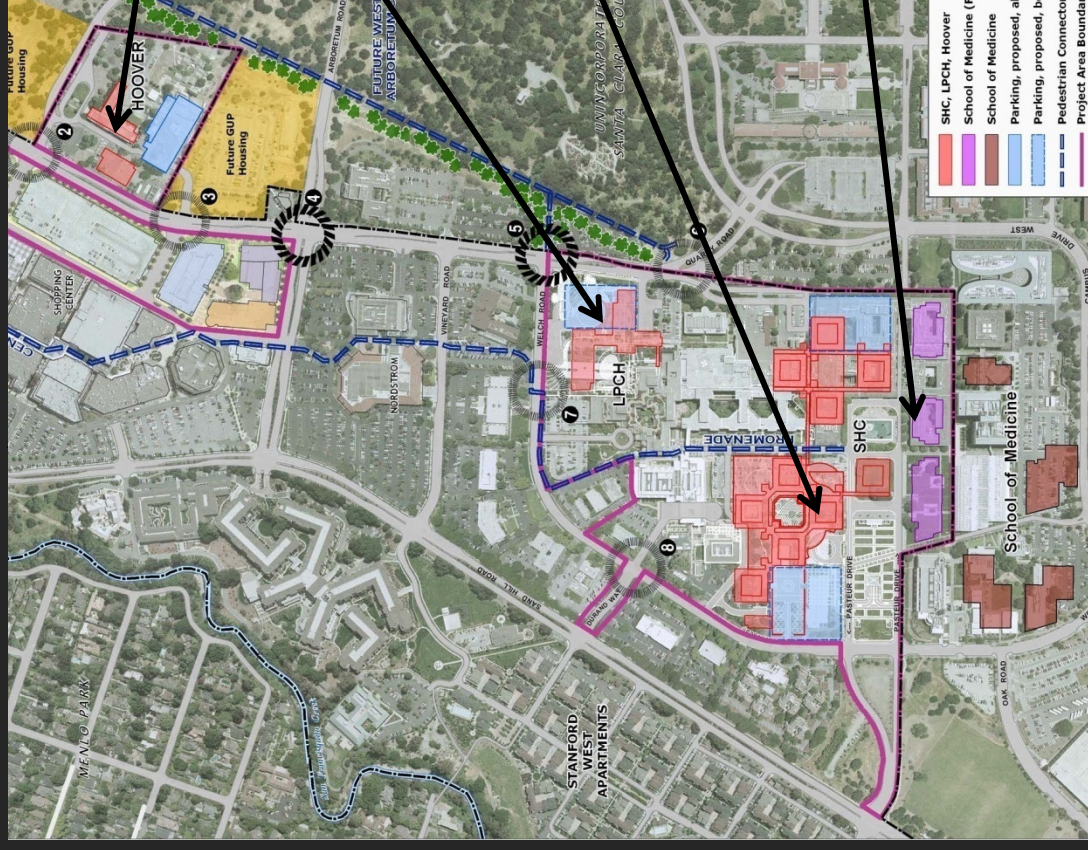


Lorry I. Lokey Stem Cell Building... completed 2010

Connection/Linkage



Connection/Linkage



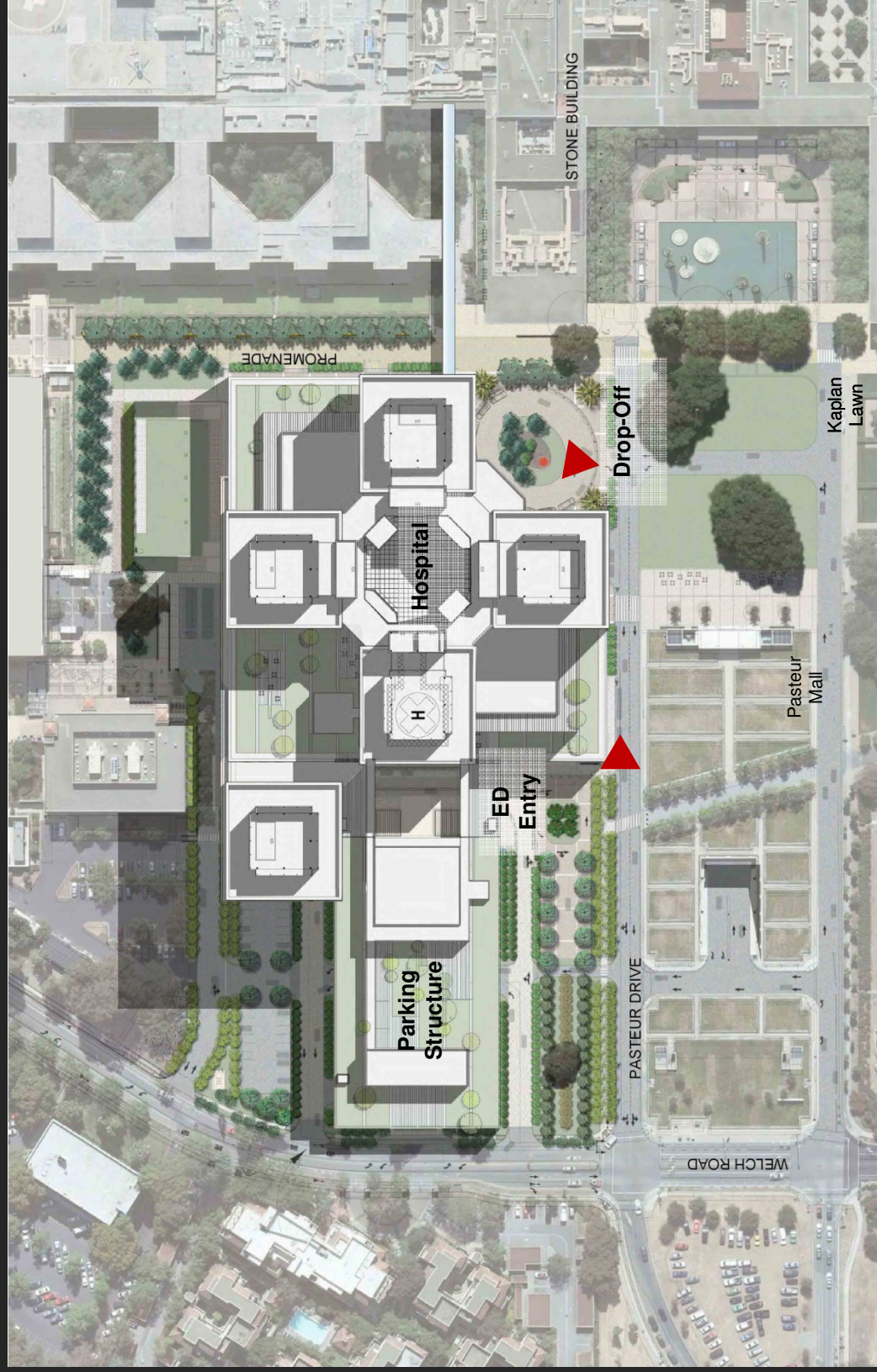
Hoover Pavilion Site

**Lucile Packard
Children's Hospital**

**Stanford Hospital
& Clinics**

School of Medicine

Connection/Linkage

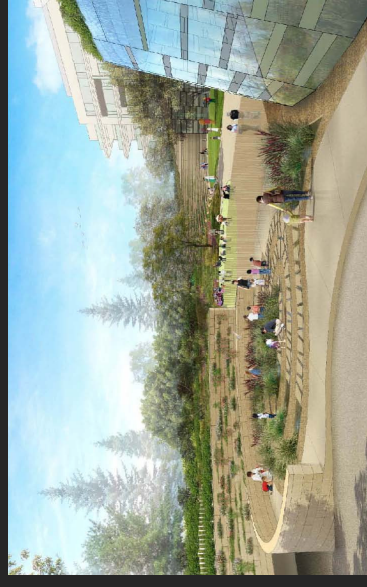
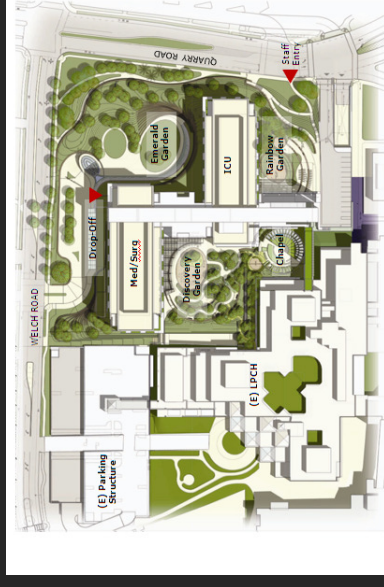


Connection/Linkage



Stanford Hospitals & Clinics Replacement.....to be completed 2018

Connection/Linkage

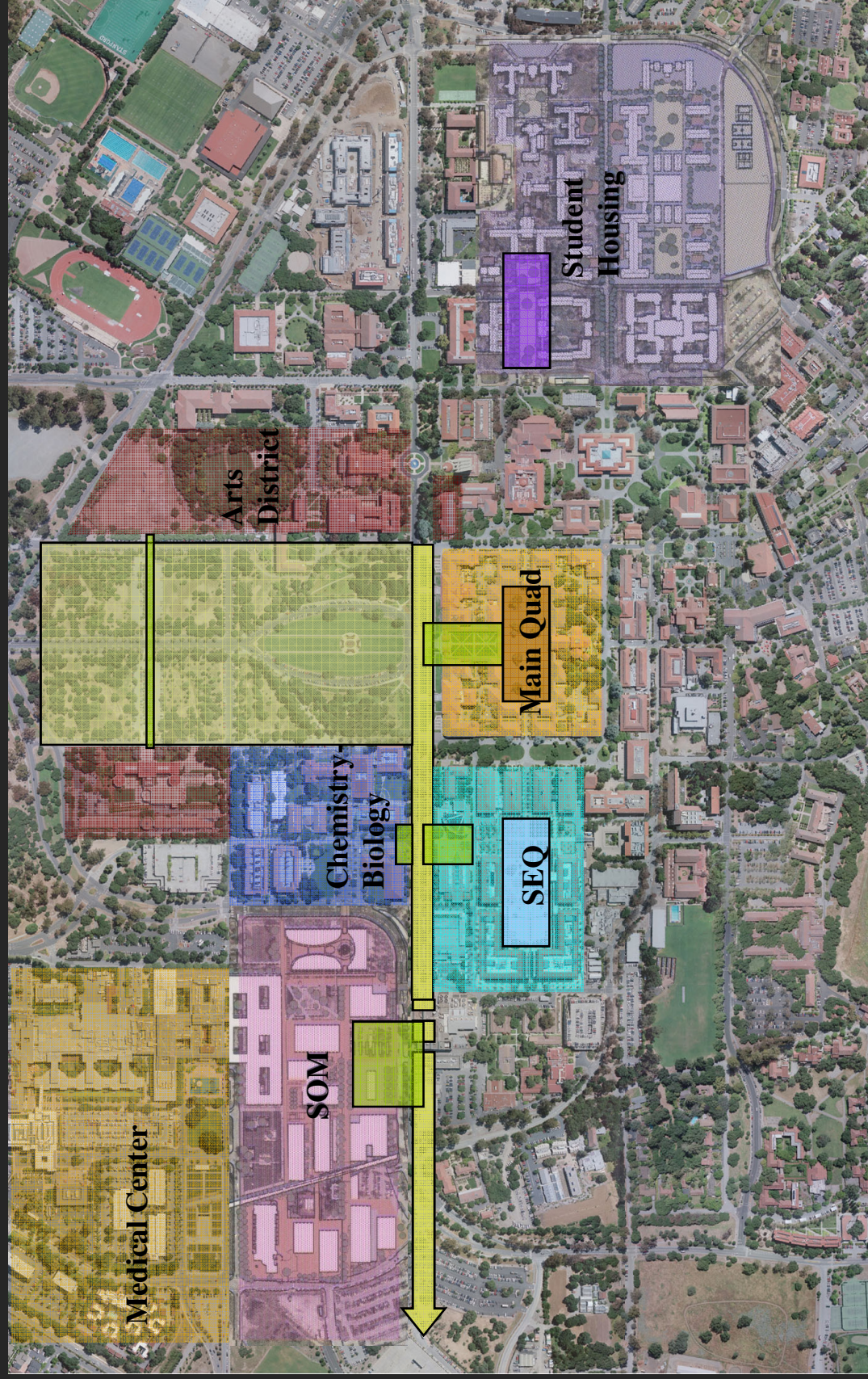


Lucile Packard Children's Hospital Expansion...to be completed 2015

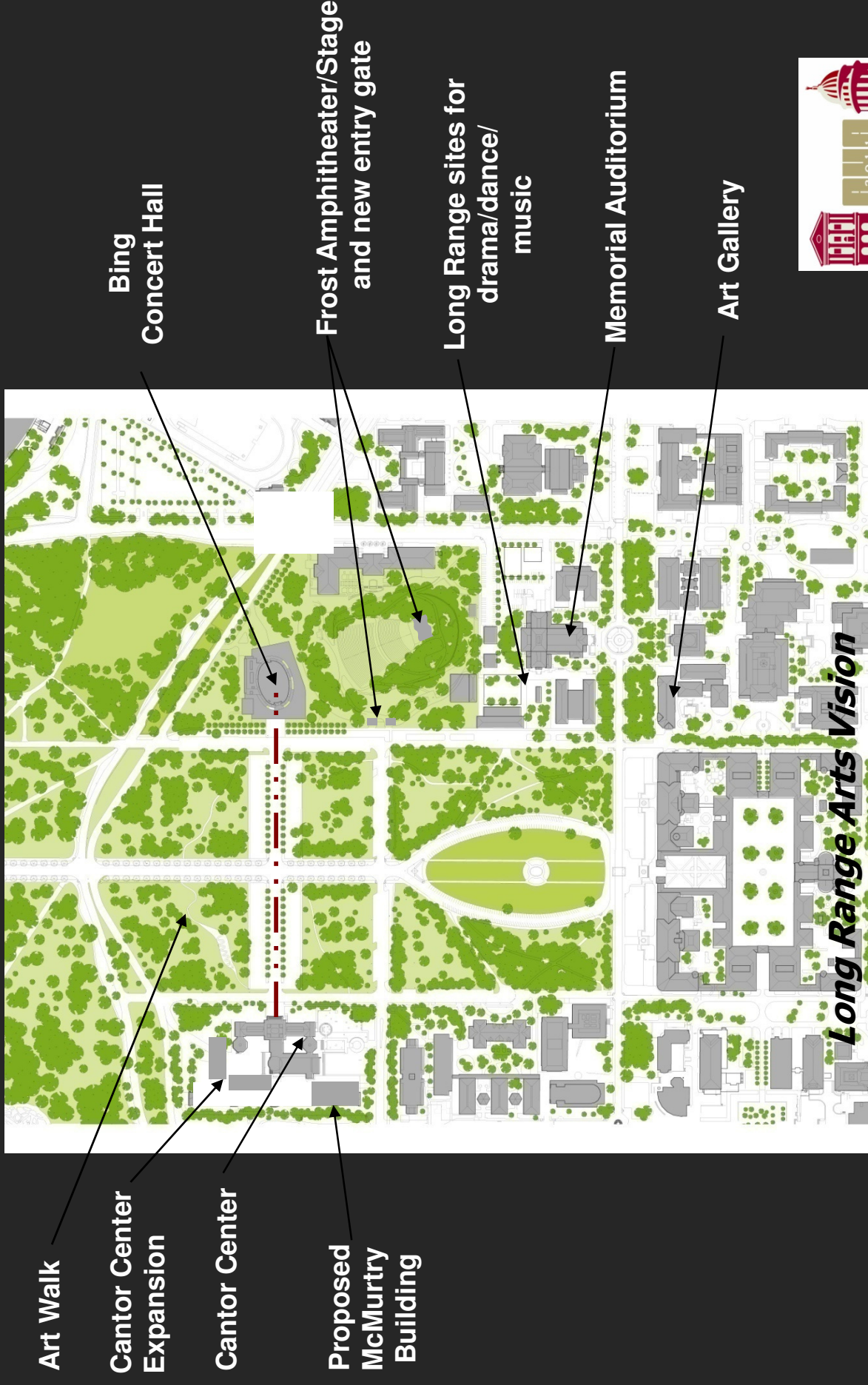


Connection/Infusion

Connection/Infusion



Connection/Infusion



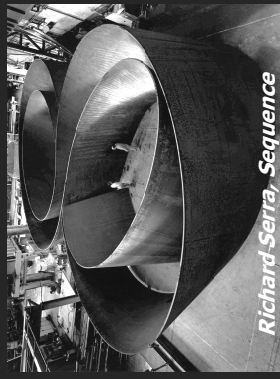
Connection/Infusion



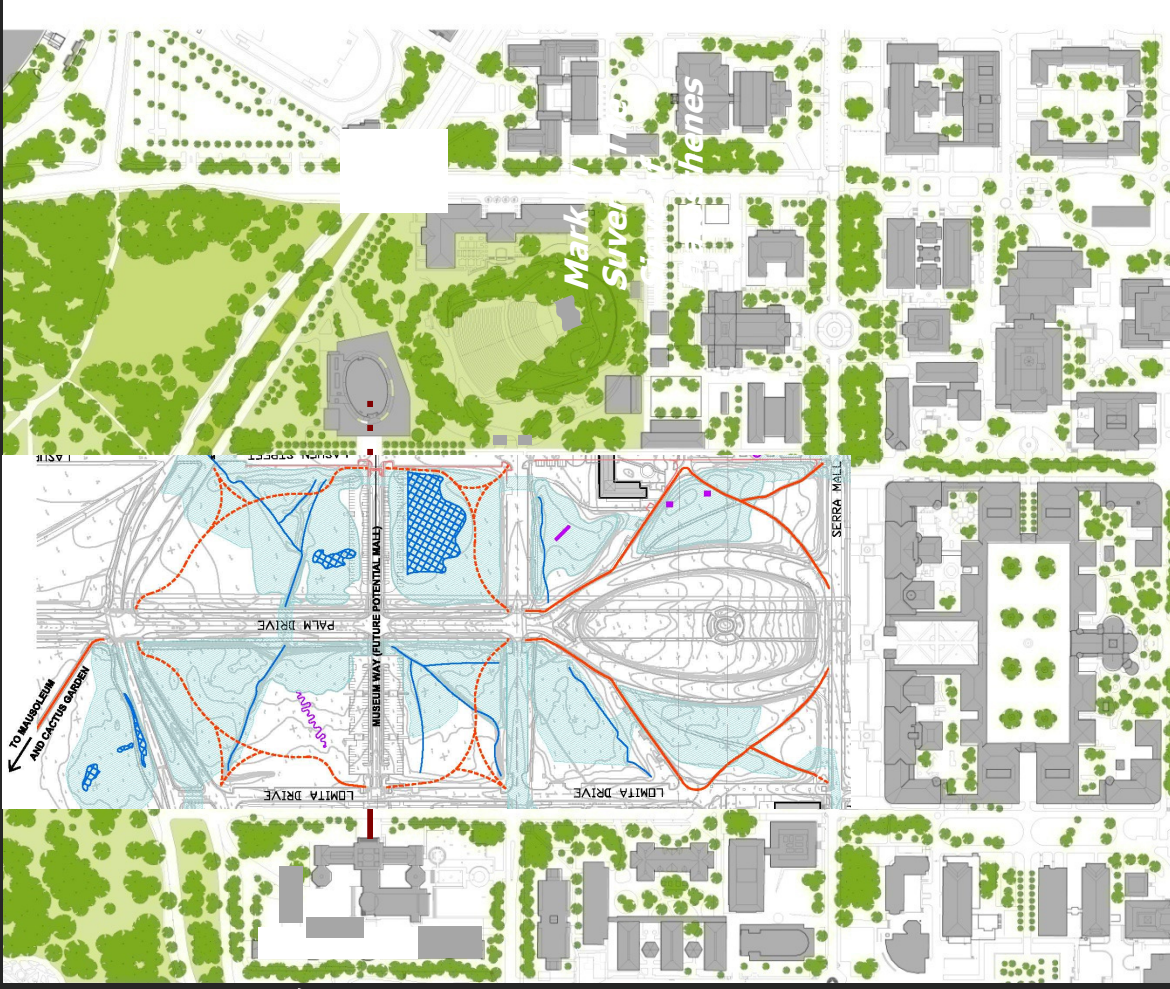
Charles Ginnever, Chicago Triangles



Josef Albers, Stanford Wall



Richard Serra, Sequence



Mark Di Suvero, Sieve of Eratosthenes



Andy Goldsworthy, Stone River



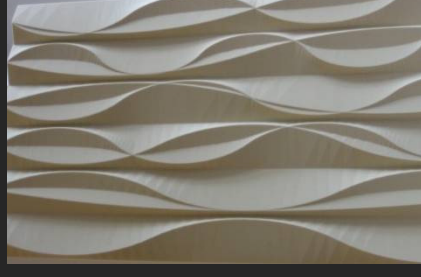
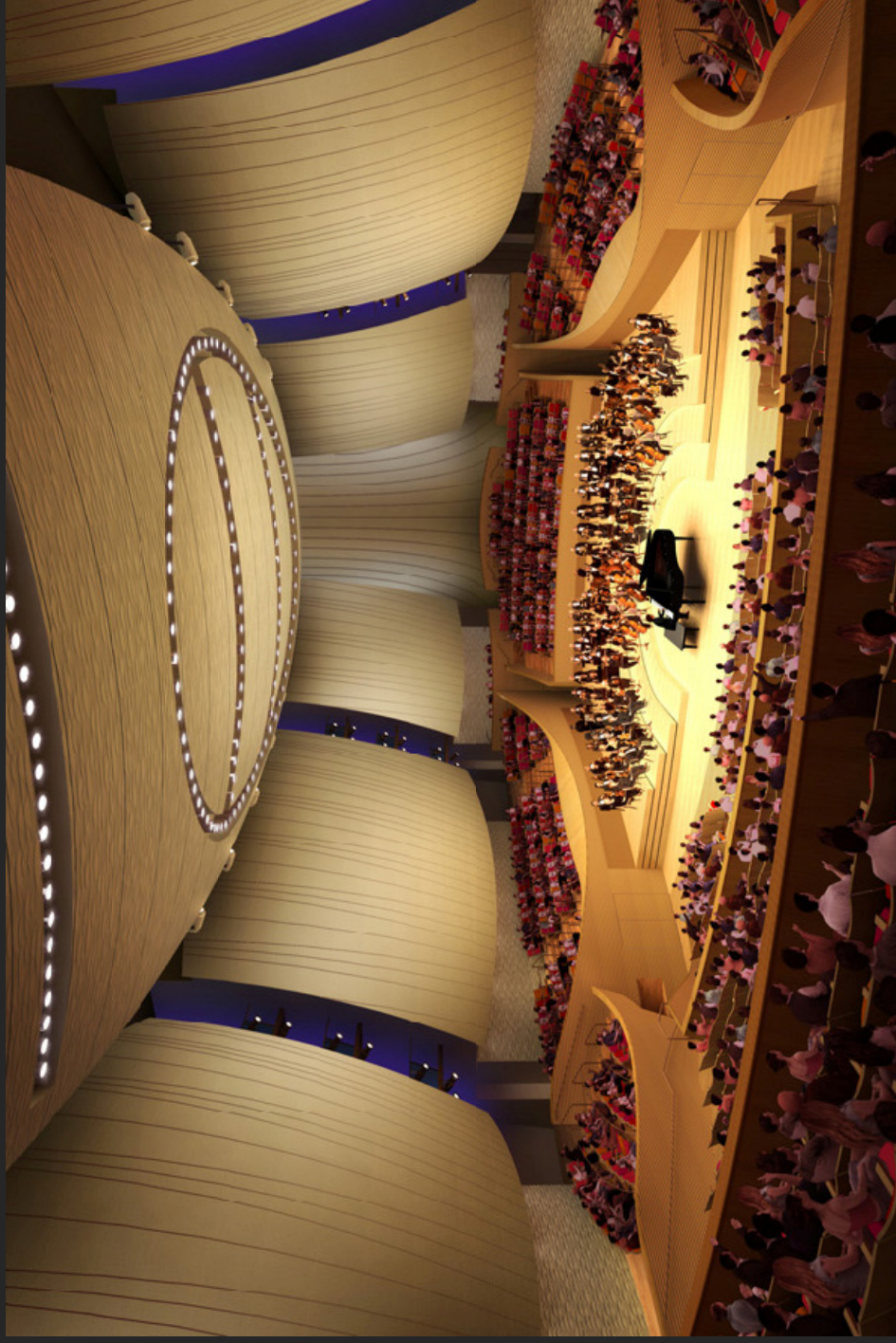
Rodin Sculpture Garden

Connection/Infusion



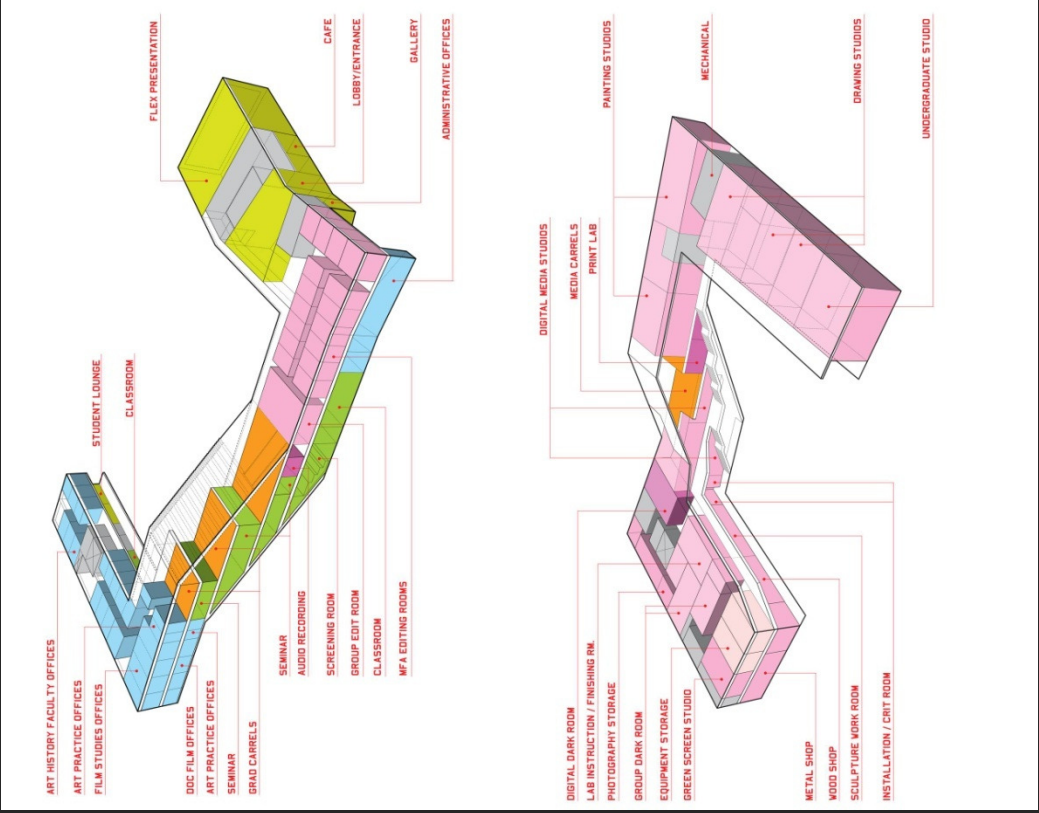
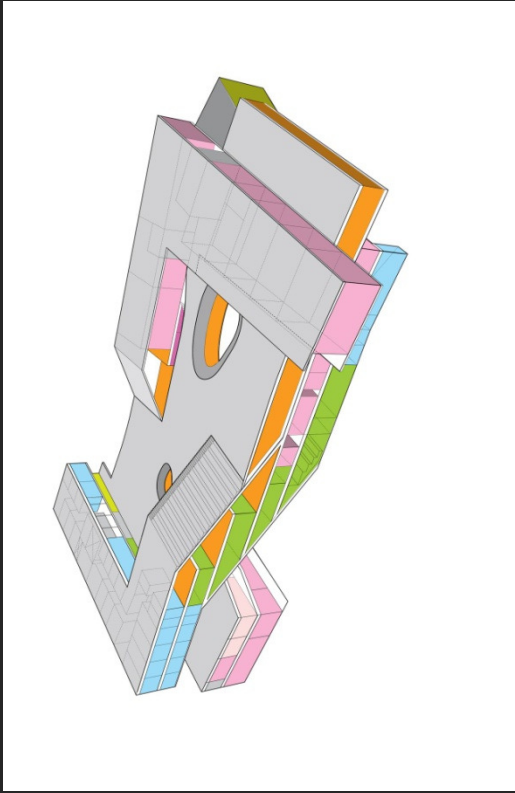
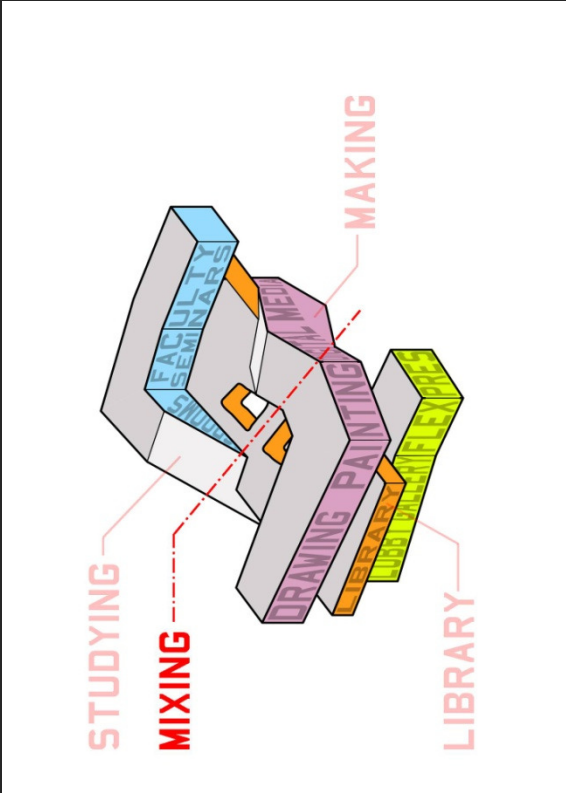
Bing Concert Hall...completion 2012

Connection/Infusion

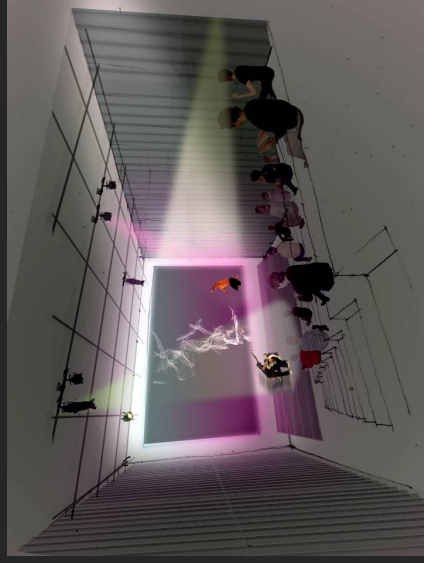
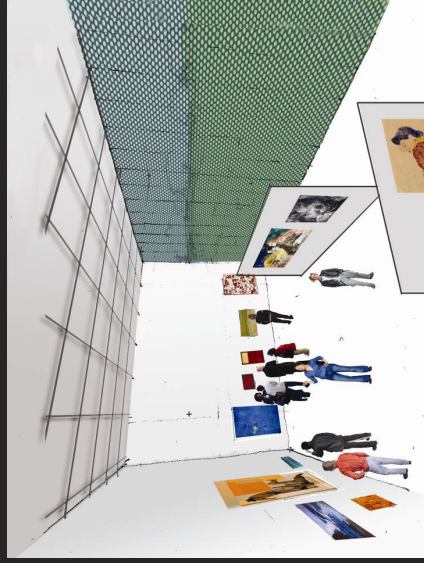
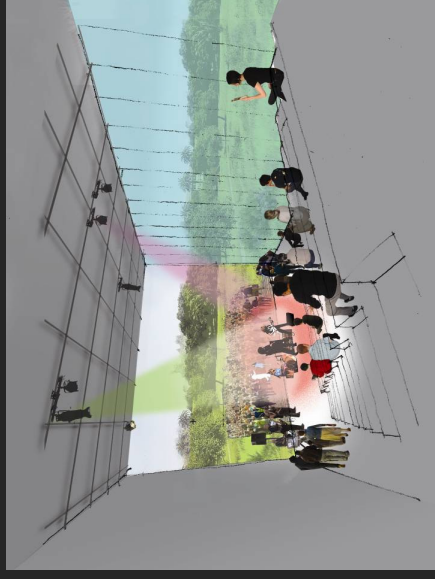
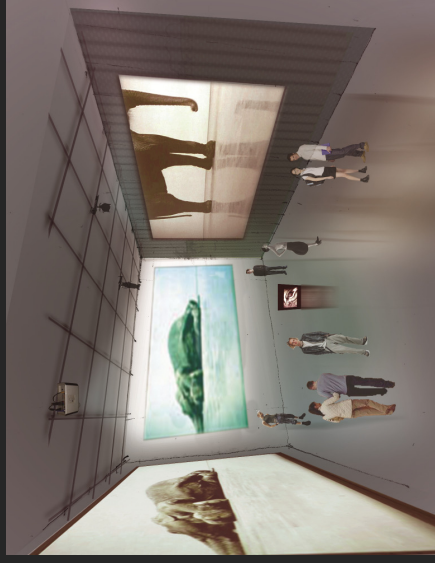


Bing Concert Hall...completion 2012

Connection/Infusion

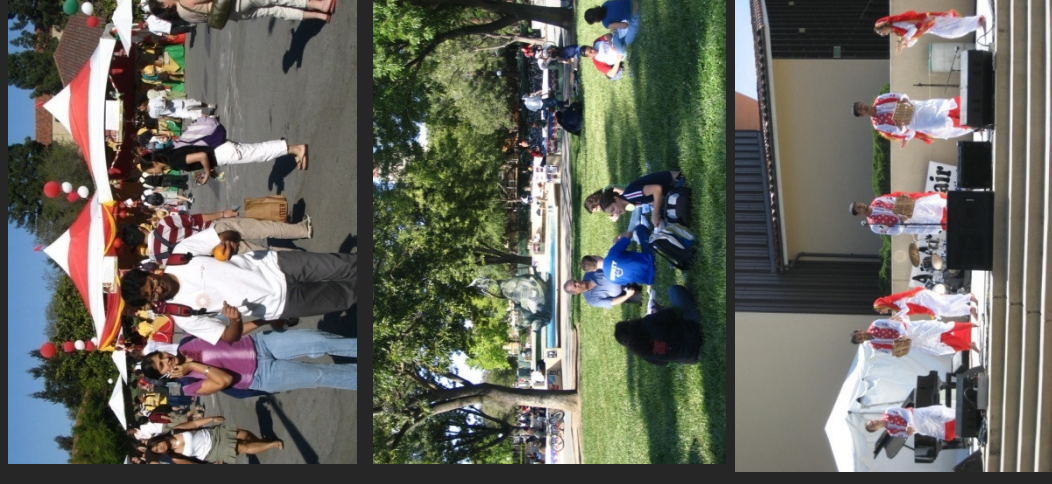


Connection/Infusion



McMurtry Art & Art History Building...completion 2013

Connection/Infusion



Proposed Student Stage...completion 2012

Connection/Infusion

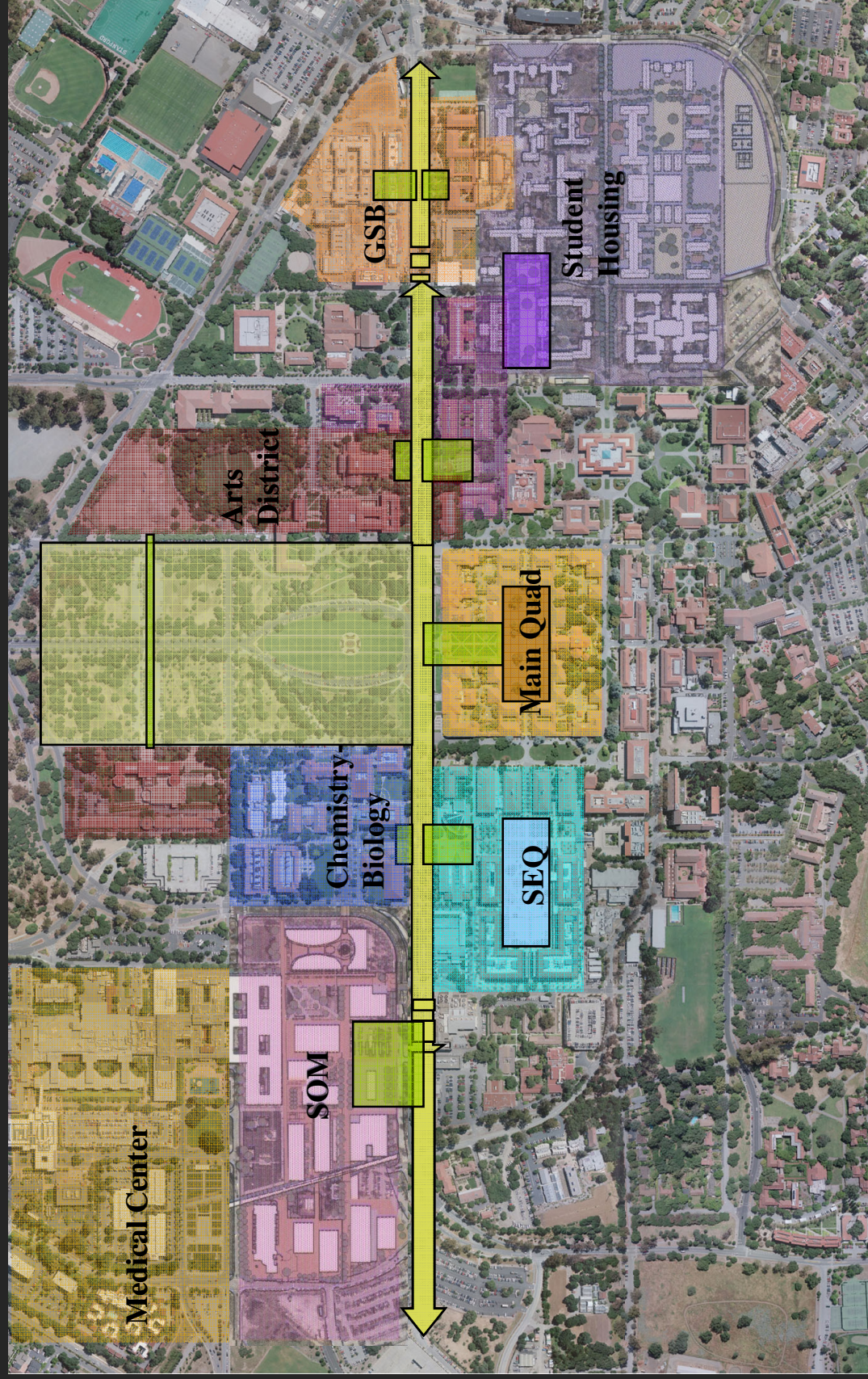


Proposed Student Stage...completion 2012



Connection/Reinterpretation

Connection/Reinterpretation



Connection / Reinterpretation



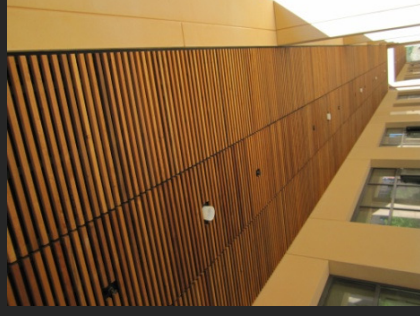
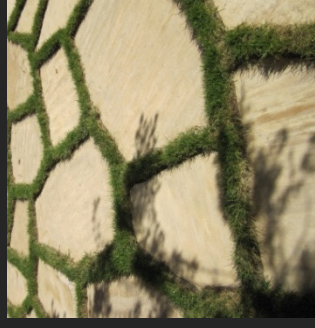
Knight Management Center... completed 2011

Connection / Reinterpretation



Knight Management Center... completed 2011

Connection / Reinterpretation



Knight Management Center... completed 2011

Connection/Reinterpretation



Knight Management Center... completed 2011

Connection/Reinterpretation



John A. & Cynthia Fry Gunn Building...completed 2010

Connection / Reinterpretation



John A. & Cynthia Fry Gunn Building...completed 2010

Connection / Reinterpretation



William Neukom Building...completed 2011

Connection / Reinterpretation



William Neukom Building...completed 2011

Connection/Reinterpretation



Automotive Innovation Facility...completed 2009



Connection/Collaboration

Connection/Collaboration

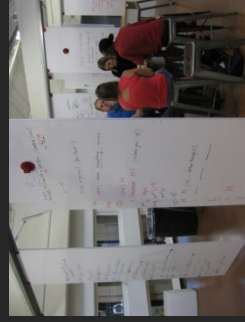


Connection/Collaboration



Peterson Lab Renovation...completed 2009

Connection/Collaboration



Peterson Lab Renovation...completed 2009

Connection/Collaboration



Lorry I. Lokey Stanford Daily Building...completed 2008

Connection/Collaboration



Lorry I. Lokey Stanford Daily Building...completed 2008



Connection/Back to the Future

Connection/Back to the Future

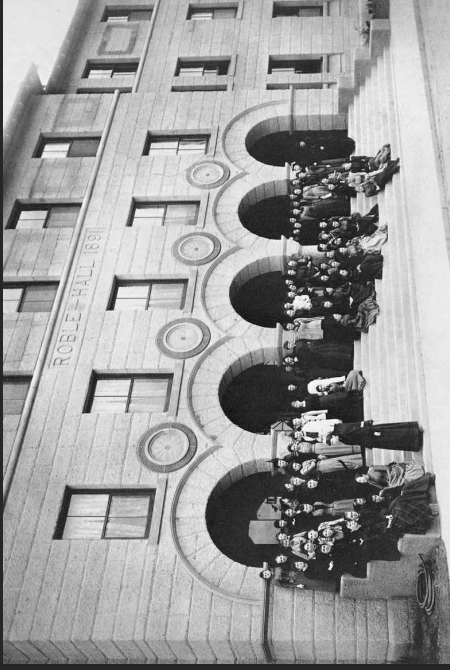


Connection/Back to the Future



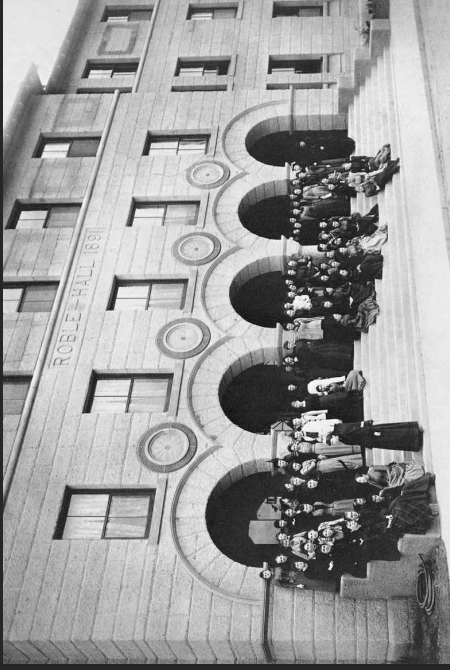
Leland Stanford Junior University Marching Band

Who are we? We are the glint in a child's eye on Christmas morn.* We are sugar and spice and everything nice. We are the sludge at the bottom of chocolate milk. Most importantly, we are musicians who love to rock. Look for us at football, volleyball, basketball, and anywhere there is fun and merriment. Did you get the memo?



Planning Components

- **Physical Capacity**
- **Connective Elements**
- **Program Priorities**
- **Energy/Infrastructure**
- **Water Management**
- **Vegetation Management**
- **Historical Resources**
- **Building/Grounds Maintenance**

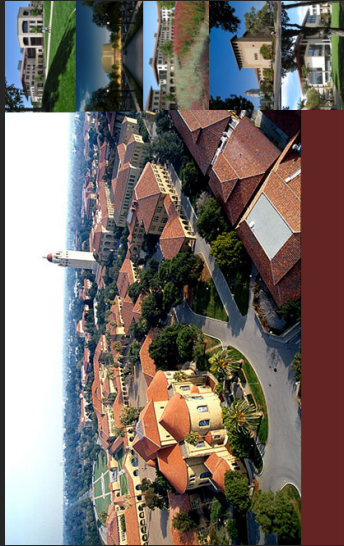


Planning Components

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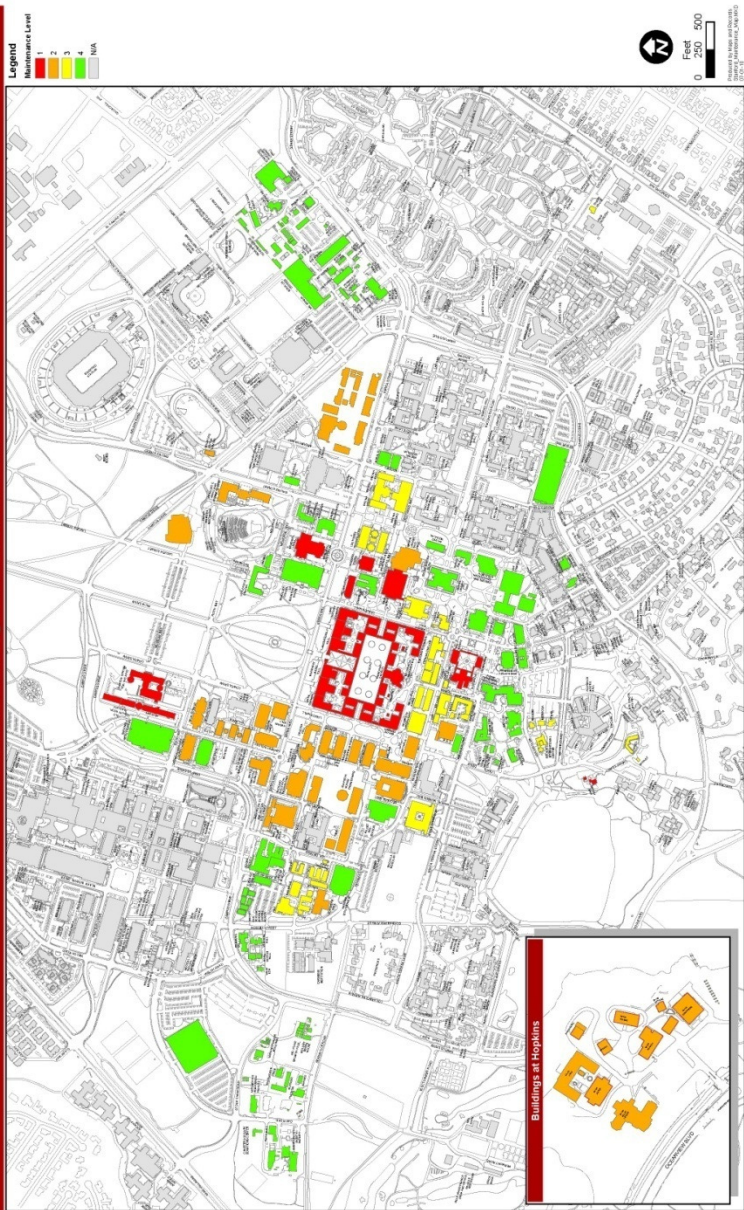
Stanford Building Service Levels

Stanford Building Service Level	Level 1	Level 2	Level 3	Level 4	Level 5
2-200 CENTER FOR URBAN DESIGN RESEARCH	0	2	3	3	3
2-201 TETRA TECH ENGINEERING LABORATORY	0	4	4	4	4
2-202 TETRA TECH ENGINEERING LABORATORY	0	4	4	4	4
2-203 BUILDING 204	0	6	6	6	6
2-204 BUILDING 204	0	6	6	6	6
2-205 BUILDING 205	0	3	3	3	3
2-206 BUILDING 206	0	3	3	3	3
2-207 BUILDING 207	0	3	3	3	3
2-208 BUILDING 208	0	3	3	3	3
2-209 BUILDING 209	0	3	3	3	3
2-210 BUILDING 210	0	3	3	3	3
2-211 BUILDING 211	0	3	3	3	3
2-212 BUILDING 212	0	3	3	3	3
2-213 BUILDING 213	0	3	3	3	3
2-214 BUILDING 214	0	3	3	3	3
2-215 BUILDING 215	0	3	3	3	3
2-216 BUILDING 216	0	3	3	3	3
2-217 BUILDING 217	0	3	3	3	3
2-218 BUILDING 218	0	3	3	3	3
2-219 BUILDING 219	0	3	3	3	3
2-220 BUILDING 220	0	3	3	3	3
2-221 BUILDING 221	0	3	3	3	3
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2-223 BUILDING 223	0	3	3	3	3
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2-282 BUILDING 282	0	3	3	3	3
2-283 BUILDING 283	0	3	3	3	3
2-284 BUILDING 284	0	3	3	3	3
2-285 BUILDING 285	0	3	3	3	3
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2-288 BUILDING 288	0	3	3	3	3
2-289 BUILDING 289	0	3	3	3	3
2-290 BUILDING 290	0	3	3	3	3
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2-292 BUILDING 292	0	3	3	3	3
2-293 BUILDING 293	0	3	3	3	3
2-294 BUILDING 294	0	3	3	3	3
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2-297 BUILDING 297	0	3	3	3	3
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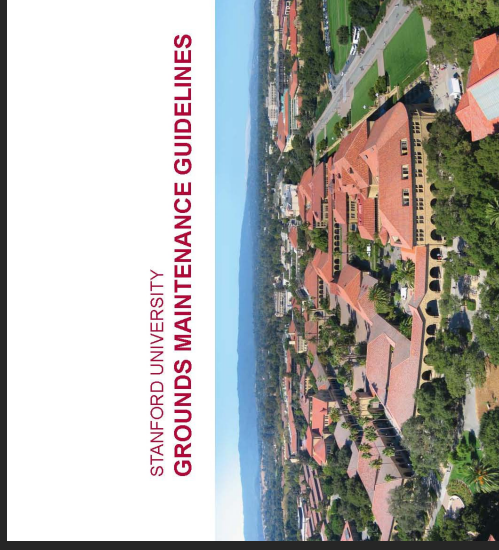
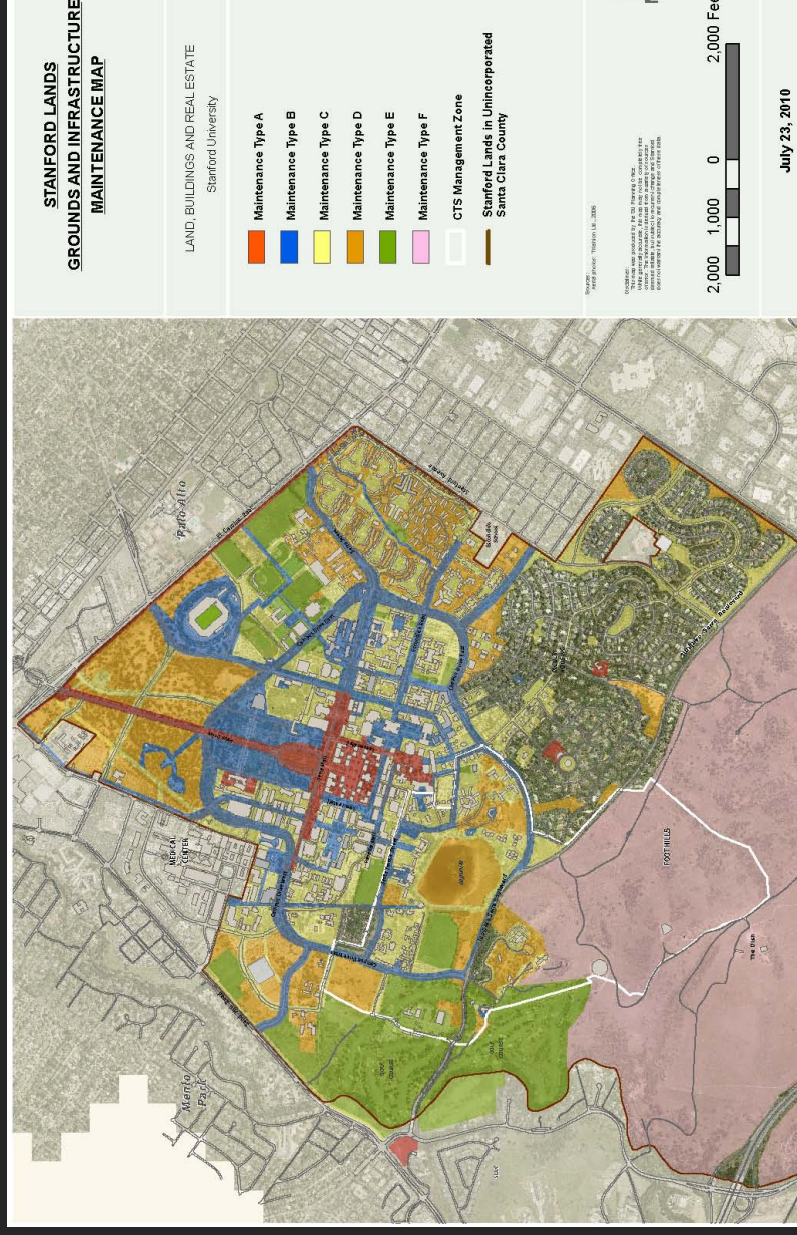
Stanford University
Building Maintenance Project Policy
Continued by the Agency

Stanford Building Maintenance Levels



- Campus Landmarks
- Operations and Research Intensive
- Heritage
- General Maintenance

Grounds Maintenance Guidelines

University Architect/Planning Office
July 23, 2010[illegible]

- Maintenance Level A
- Maintenance Level B
- Maintenance Level C
- Maintenance Level D
- Maintenance Level E
- Maintenance Level F

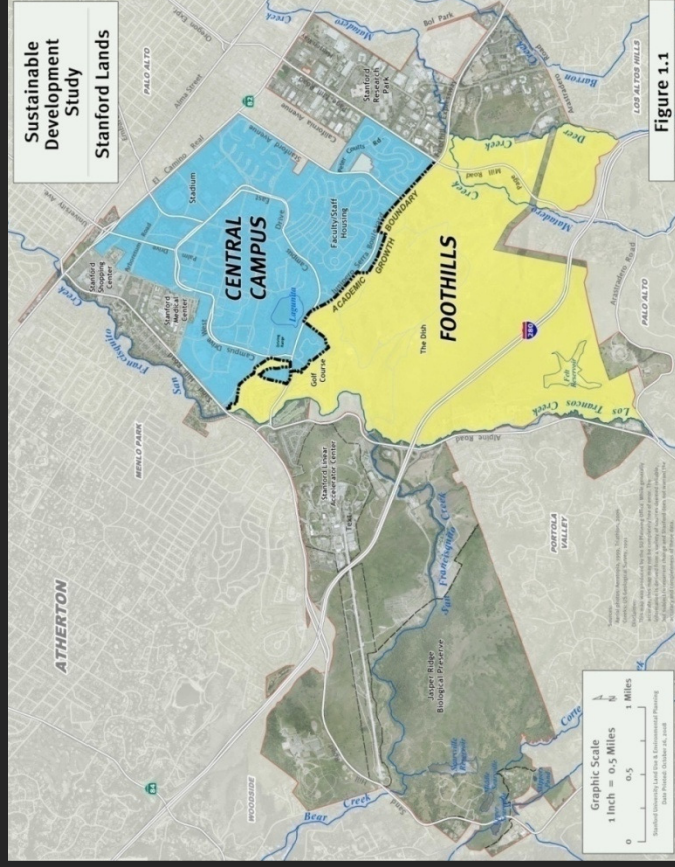
Connection/Back to the Future



SUSTAINABLE DEVELOPMENT STUDY
STANFORD UNIVERSITY
DECEMBER 2008

Components of the Study

- Central Campus analysis
- Foothills analysis
- Environmental sustainability program



Identify Developable Areas Through Land Sensitivity Analysis

Protection
Areas

HCP
Management
Zones

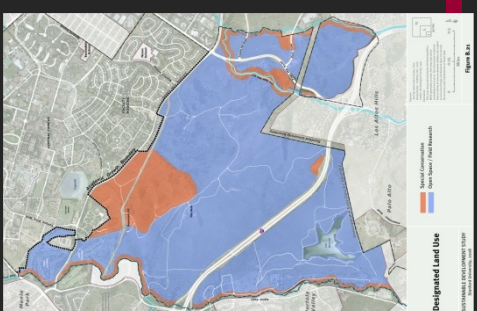
Oak
Woodlands



Slope



Land Use



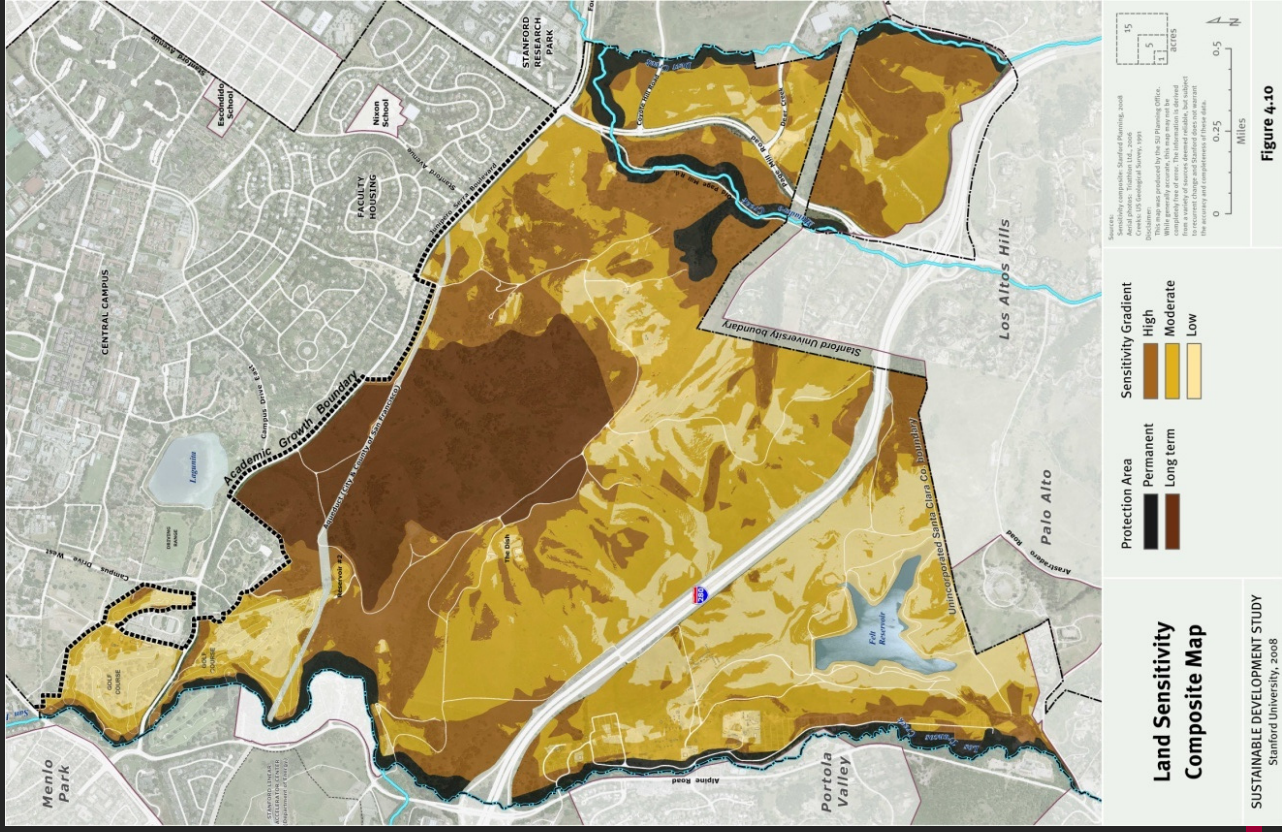
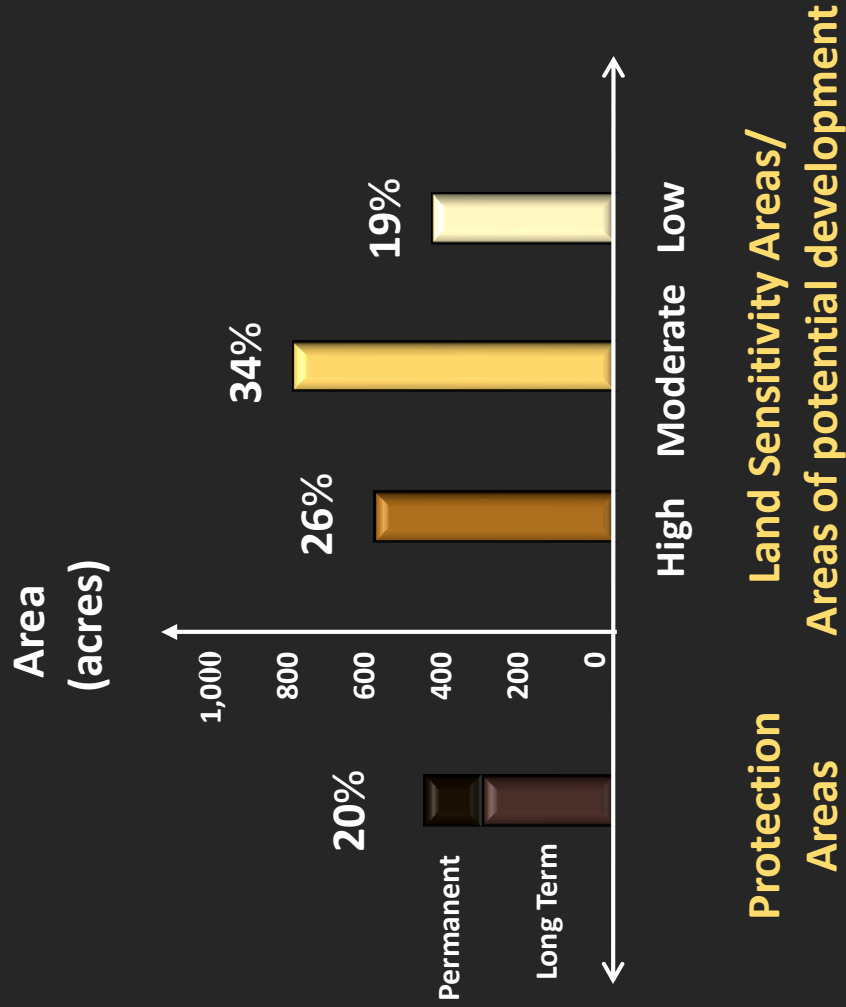
Visibility



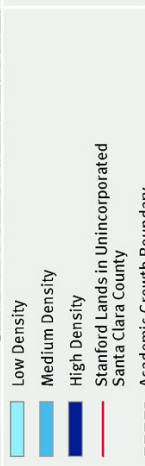
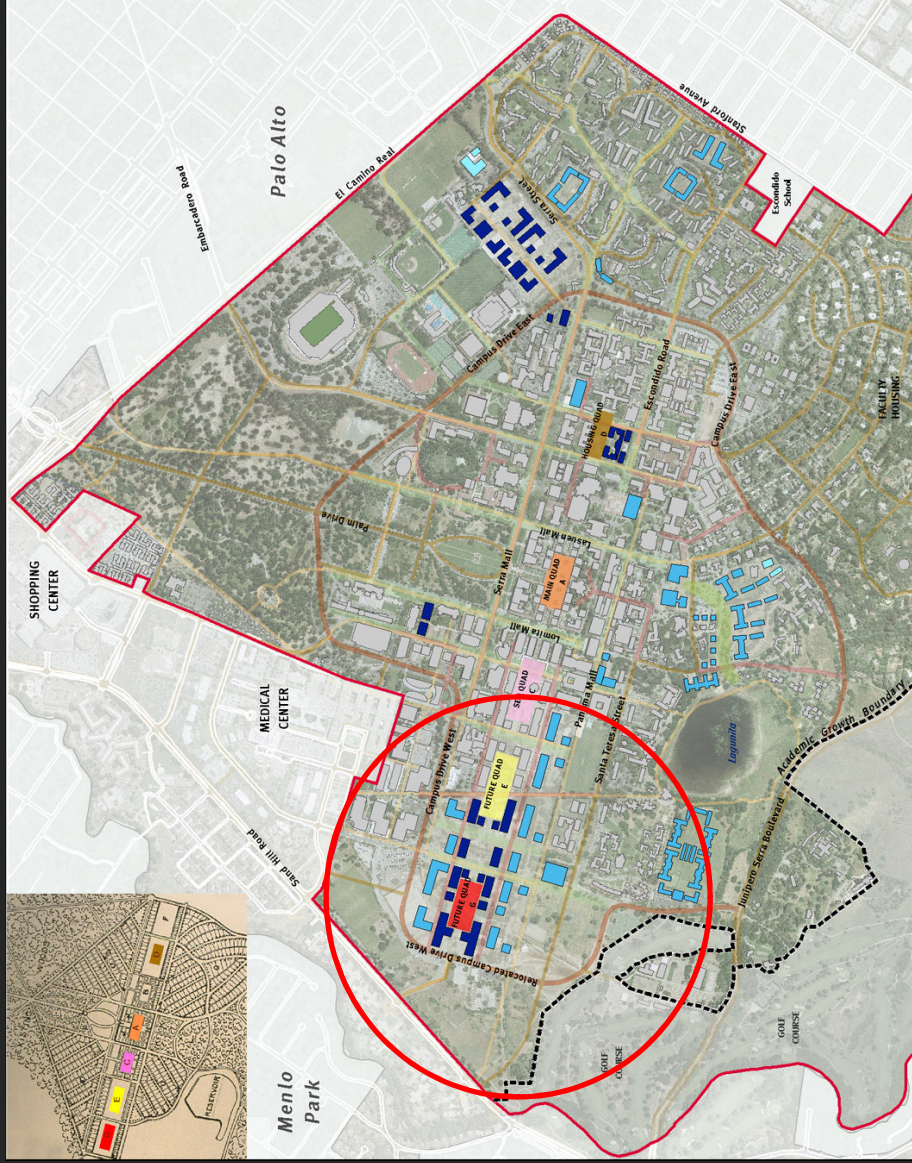
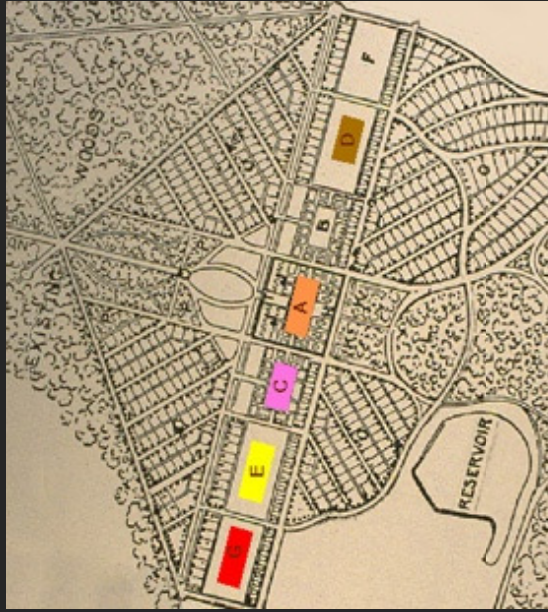
Land Sensitivity Composite Map



Land Sensitive Composite Results



Connection/Back to the Future



Scenario C 5 Million sf Growth

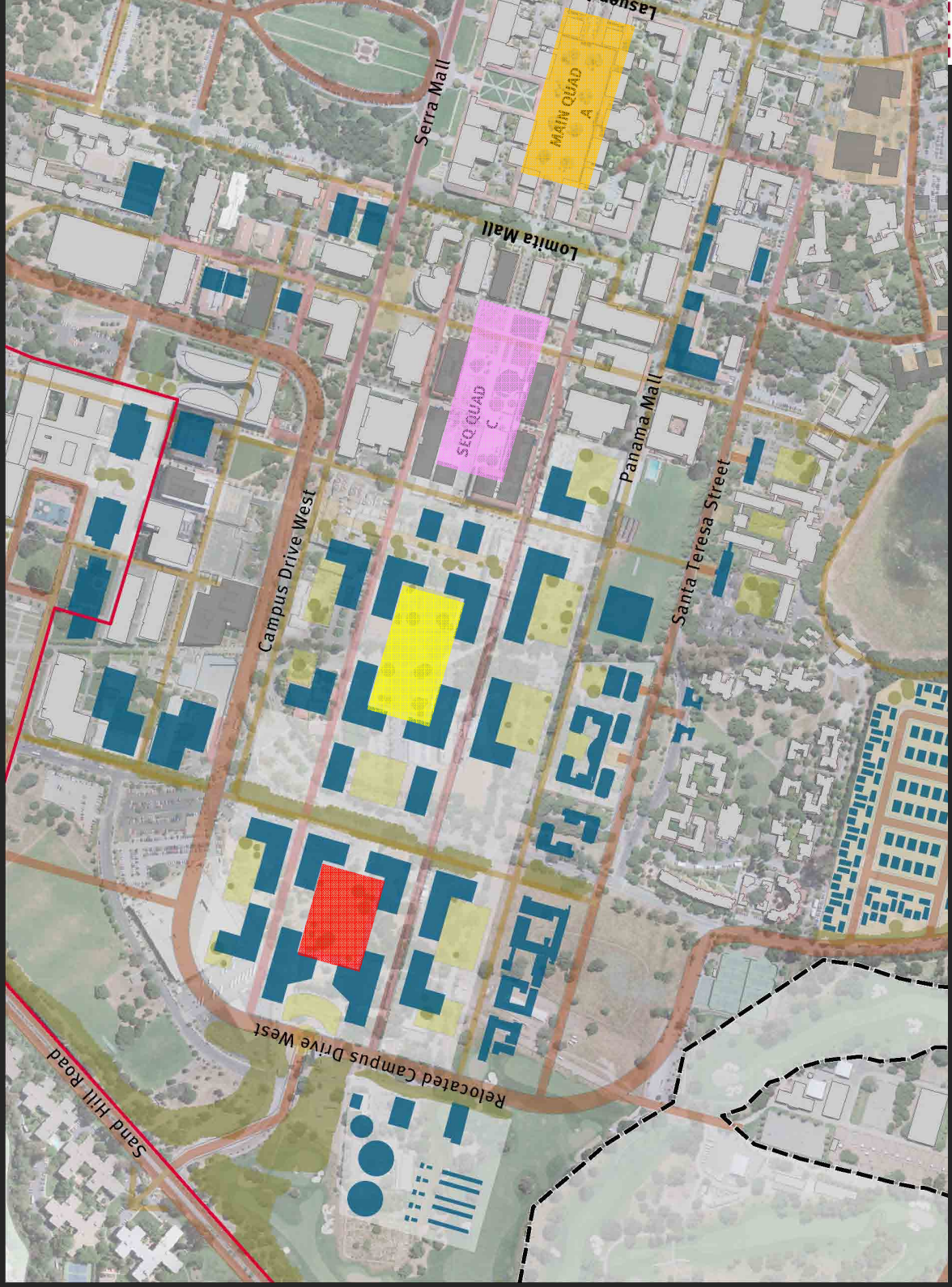
SUSTAINABLE DEVELOPMENT STUDY
 Stanford University, 2008

Figure 3-36

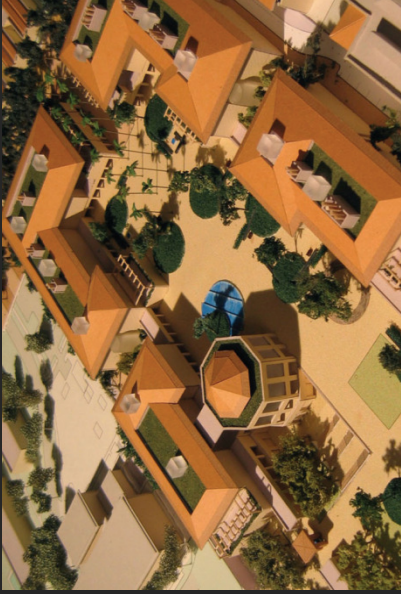
Connection/Back to the Future



Connection/Back to the Future



Connection/Back to the Future



High Density

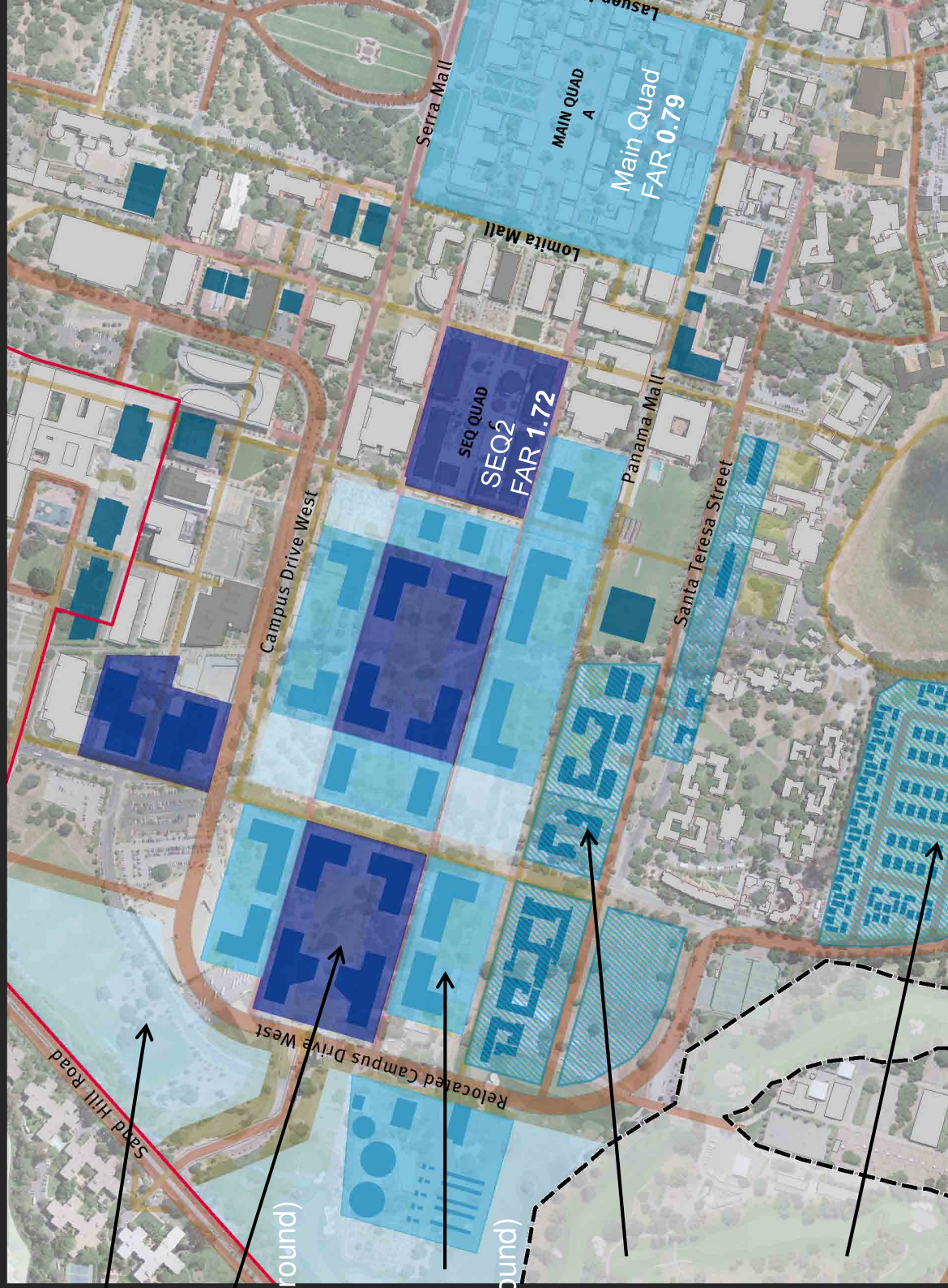


Medium Density



Low Density

Connection/Back to the Future



Low Density
.25 FAR

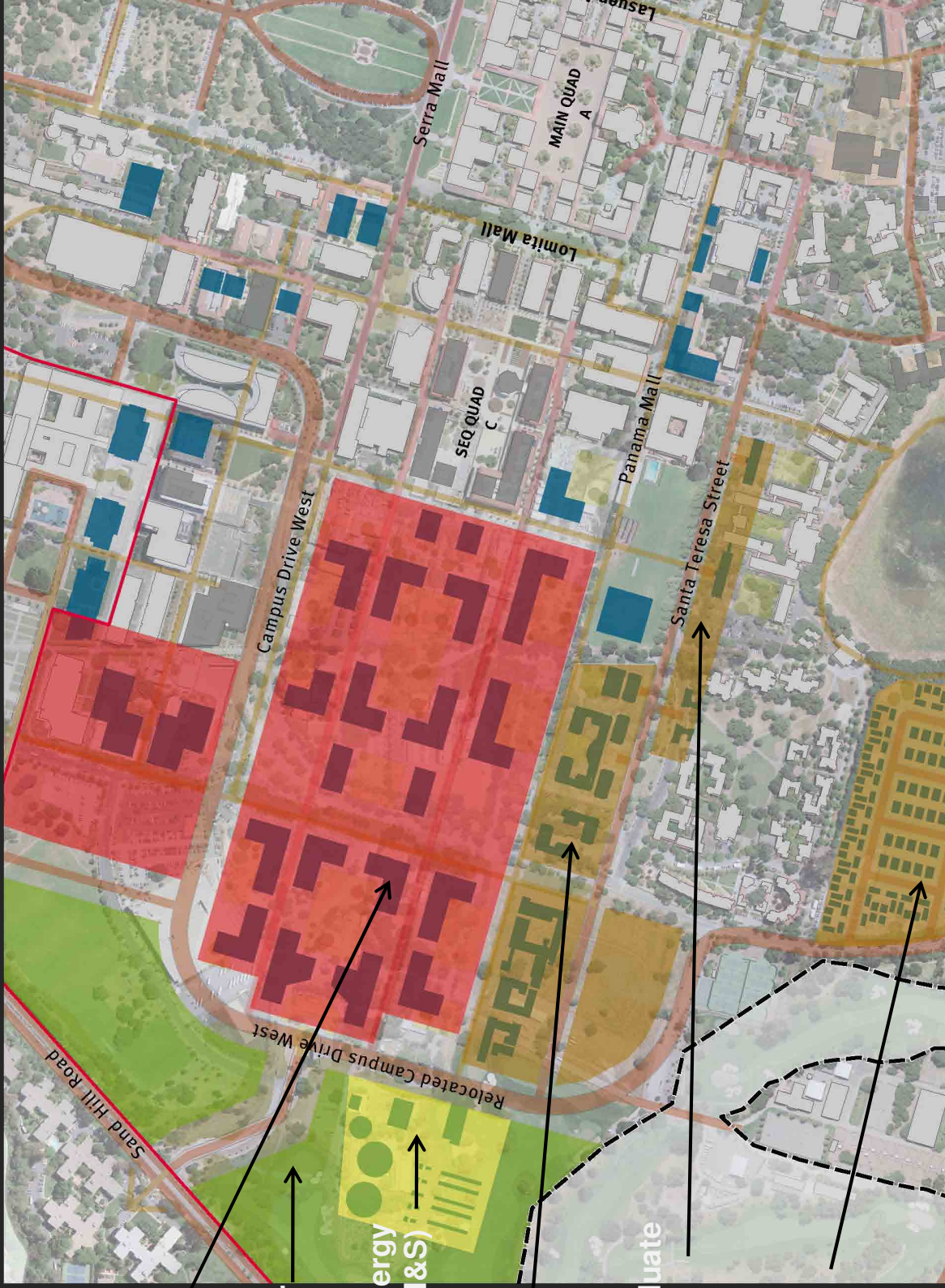
High Density
1.72 FAR Total
1.05 FAR (above ground)
3-4 stories

Medium Density
0.75 FAR Total
0.6 FAR (above ground)
2-3 stories

Medium Density Student Housing
1.00 FAR
3-4 stories

Medium Density Faculty Housing
11 units/acre

Connection/Back to the Future



Future Academic

Recreation/Buffer

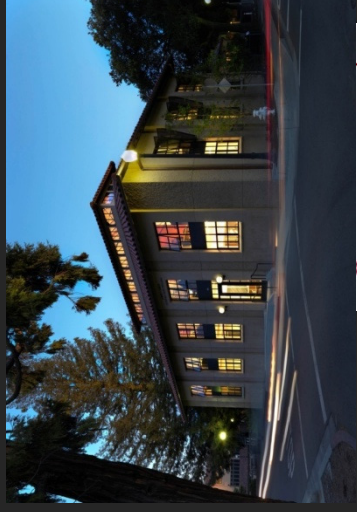
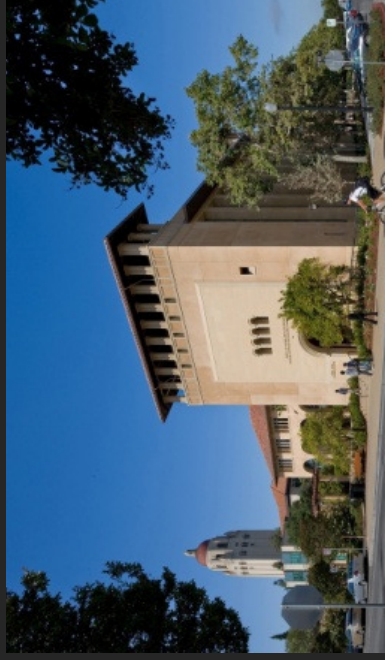
Future Central Energy
Plant (relocate EH&S)

Future Graduate
Student Housing

Future Undergraduate
Student Housing

Future Faculty/
Staff Housing

Caretakers of a Legacy



Caretakers of a Legacy

