



California State Polytechnic University, Pomona

Master Plan Update

21 March 2019



AYERS
SAINT
GROSS



AGENDA

Master Plan update

21 March 2019

Introductions

Charting Our Future – Strategic, Academic, Master Plan

Master Planning Process + Themes

Proposed Campus-wide Improvements

Proposed Facilities Plans-Projects

Next Steps

Open to Q + A

CHARTING OUR FUTURE

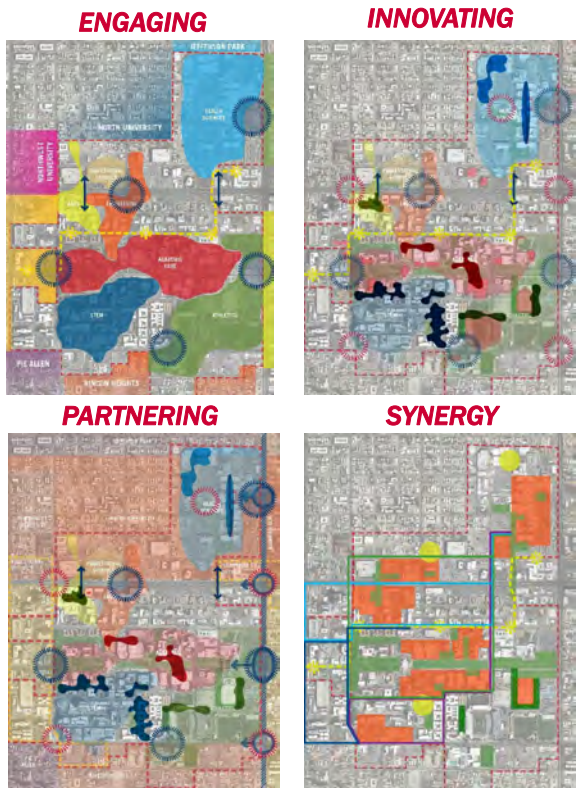
Physical Master Plan

physical, technical, implementation-oriented; steered by committees toward consensus; map + reports to guide implementation



Strategic Master Plan

high level, broad, capacity-oriented; leadership drives toward consensus; narrative, diagrammatic



Academic Plan

implementing strategic plan, new academic initiatives with action plans and programs student-faculty centric



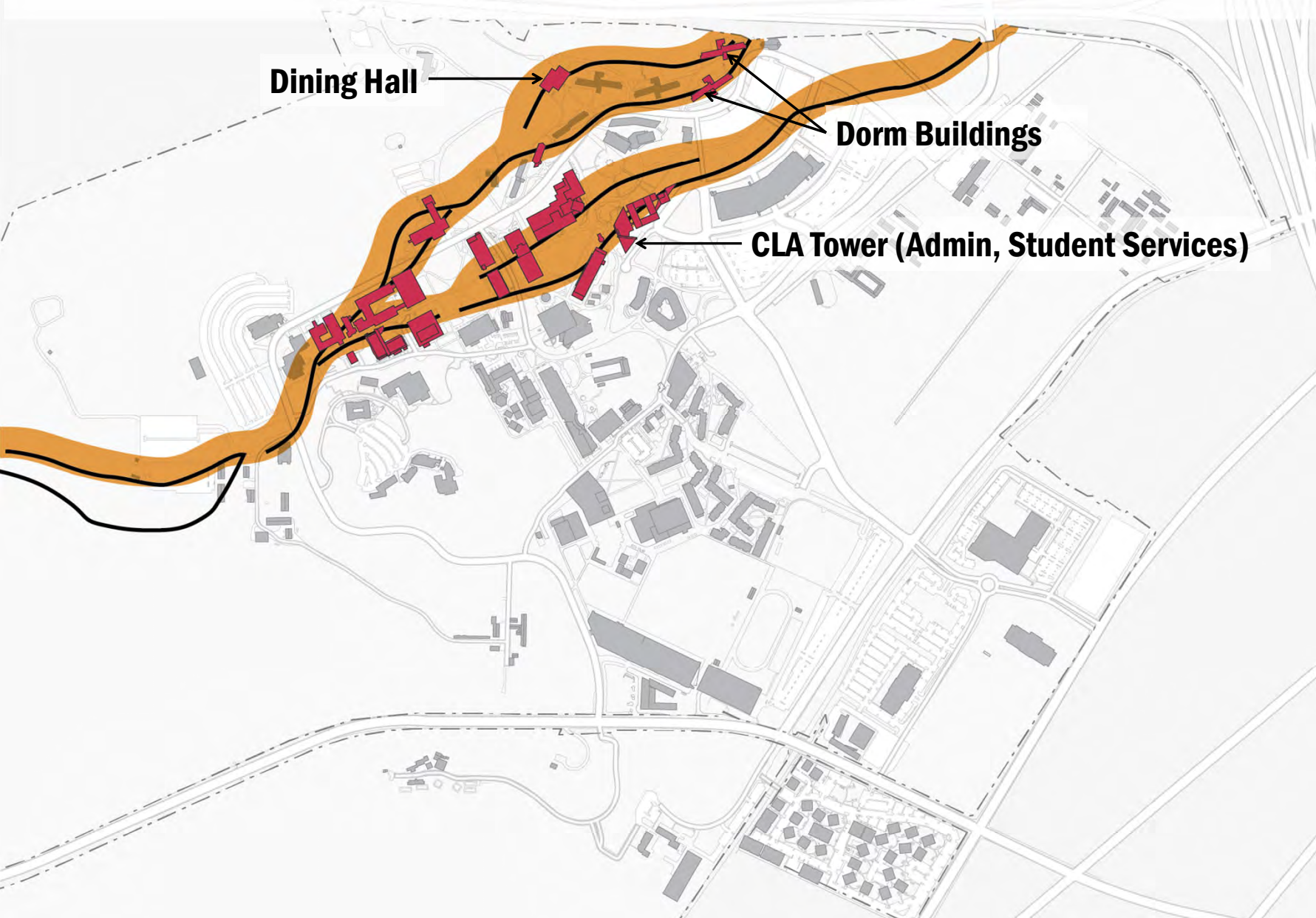
CAMPUS TODAY



**under
construction**

Kellogg Drive realigned

CAMPUS TODAY - FAULT LINE W/AFFECTED BUILDINGS



CAMPUS TODAY

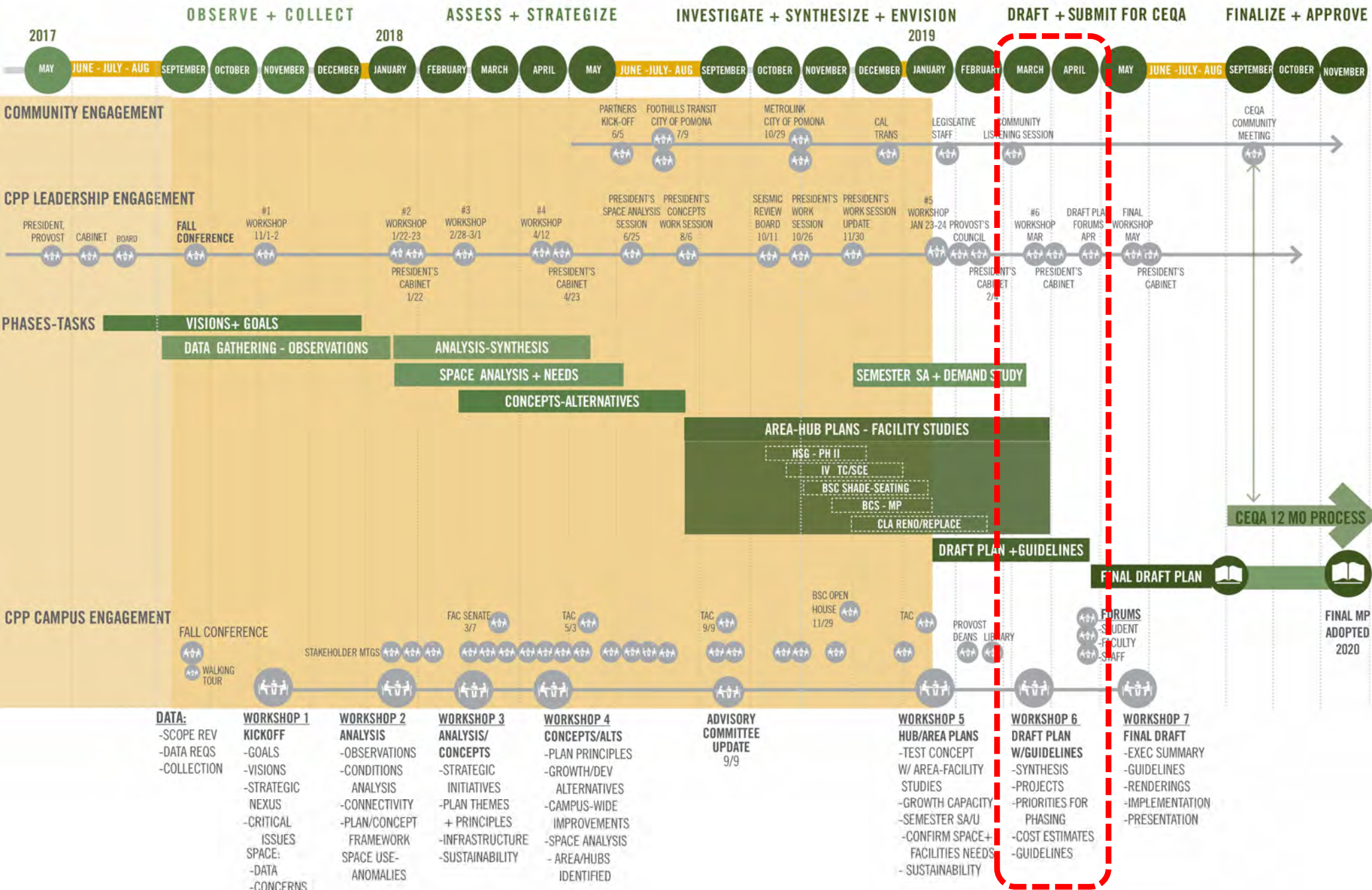


Student Services Building opened January 2019

Student Dining Hall - *under construction, open Jan 2020*

Student Housing Phase 1 - *under construction, open Jan 2020*
Phase 2 - *planned, opening TBD*





CAMPUS ENGAGEMENT

- 4 Open House-Forums
- 5 Advisory Committee Workshops
- 8 Community Partners Meetings
- + 20 Leadership Presentations-Work Sessions
- +300 Campus + Community Participants



Five Themes

emerged from stakeholder engagement + CPP Strategic-Academic plans

1

Student Experience Above All

All decisions put student experience at the forefront, from physical facilities and accessibility (*including the online environment*) to Cal Poly Pomona programs and policies.

2

Polytechnic Approach

The campus is a laboratory which supports teaching and learning by doing, inside and outside of the traditional educational settings.

3

Connectivity is Key

Connectivity is key to orientation/wayfinding and ease of circulation for a safe, inclusive and universally accessible campus.

4

Pedestrian Campus in a Commuter Reality

Campus has to be safe, accessible and convenient (*by multiple modes of transportation*), and walkable - bikeable for all students, faculty, staff and visitors.

5

Sustainable in All Aspects

Decisions must be sustainable environmentally, economically, socially and consistent with Cal Poly's values, commitments, goals.

Campus-wide systems

Concepts to Draft Plan

Synthesis + Study-Analysis

- **Campus Entry-Gateways** – *Kellogg entrance from I-10 modified to route traffic around the campus*
- **Pedestrian/bike way** – *extend north to University + across South Campus Dr*
- **Campus Transit** – *dedicated lane for shuttle bus loop on University, transit ‘hub’*
- **Transit Center/Hub Options** – *connect to routes on Temple, South Campus Dr and I-10*
- **Parking:** *new structure locations, projections for current/future needs, demand management strategies*

Address:

- ✓ I-10 exit reconfiguration to reduce through traffic
- Expand the pedestrian zone with improved pedestrian malls/walks
- Enhance pedestrian safety
- Enhance bike connectivity
- Improve on-campus transit (*get the bus out of traffic*)
- Provide better regional transit connections

MOBILITY AREAS OF STUDY



CHP BALDWIN PARK FACILITY



I-10

Change intersection to a 4 way stop

East Campus Drive (2 way)

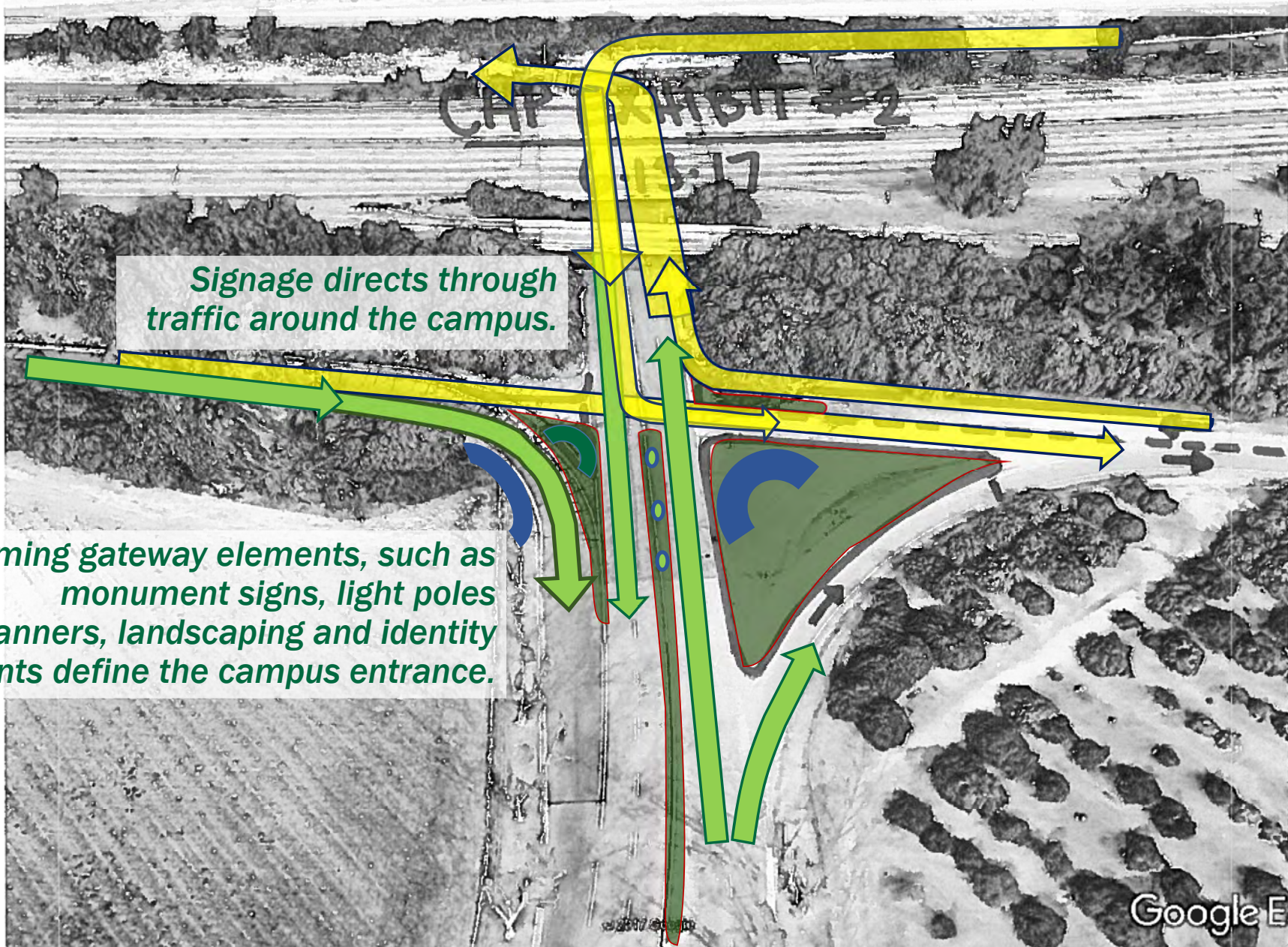


CHP

CHP Baldwin Park Facility:

- 2020 start construction, open 2022
- Two-way access on East Campus Dr
- May need turn lane expansion on South Campus Dr
- \$1M budget to support street improvements

EAST CAMPUS TWO-WAY OPTION - GATEWAY ELEMENTS



Caltrans District 7 on I-10 Kellogg Dr. Exit

Tuesday December 18, 2018

10:00 a.m. – 11:30 a.m.

Caltrans District 7 Headquarters

Attending:

Cal Poly Pomona:

Dan Johnson, Interim AVP, Facilities Planning & Management

Julie Tsang, University Planner

John Lloyd, Chair of Transportation Advisory Committee

Frances Teves, Exec Dir of Government & Community Relations

Joshua Maher, Assist Dir of Government & Community Relations

CPP Campus Master Plan Consultants:

Carolyn Krall, Campus Planning, Ayers Saint Gross

Jason Pack, Transportation, Fehr & Peers

CA Department of General Services:

Troy West, Project Director

Scott McDonnell, Civil Engineer

Caltrans District 7:

Marco Ruano, Freeway Operations Chief;

Mehdi Salehinik, Senior Transportation Engineer;

Gregory Farr, Principal Project Manager;

Mine Struhl, Branch Chief, Environmental Planning;

Mahmoud Hajjar, Traffic Investigations

Caltrans comments:

- No major safety concerns
- 4-way stop is a low cost modification
- Permit review process is based on cost, so an expedited review is feasible
- CHP has budget to support East Campus Drive improvements
- CHP plans to start construction in 202
- Cal Trans requested engineering concept drawings for further review

Follow-up:

- Fehr & Peers identified suitable civil engineers
- ACT is starting concept plans for CPP
- Meet with Caltrans on the concept plan ASAP

* PPT and notes by CK at Ayers Saint Gross

ELEMENTS OF A PEDESTRIAN ENVIRONMENT



Expand the Pedestrian Zone



Improve Multi-modal Connectivity



Address Safety, Accessibility + Wayfinding

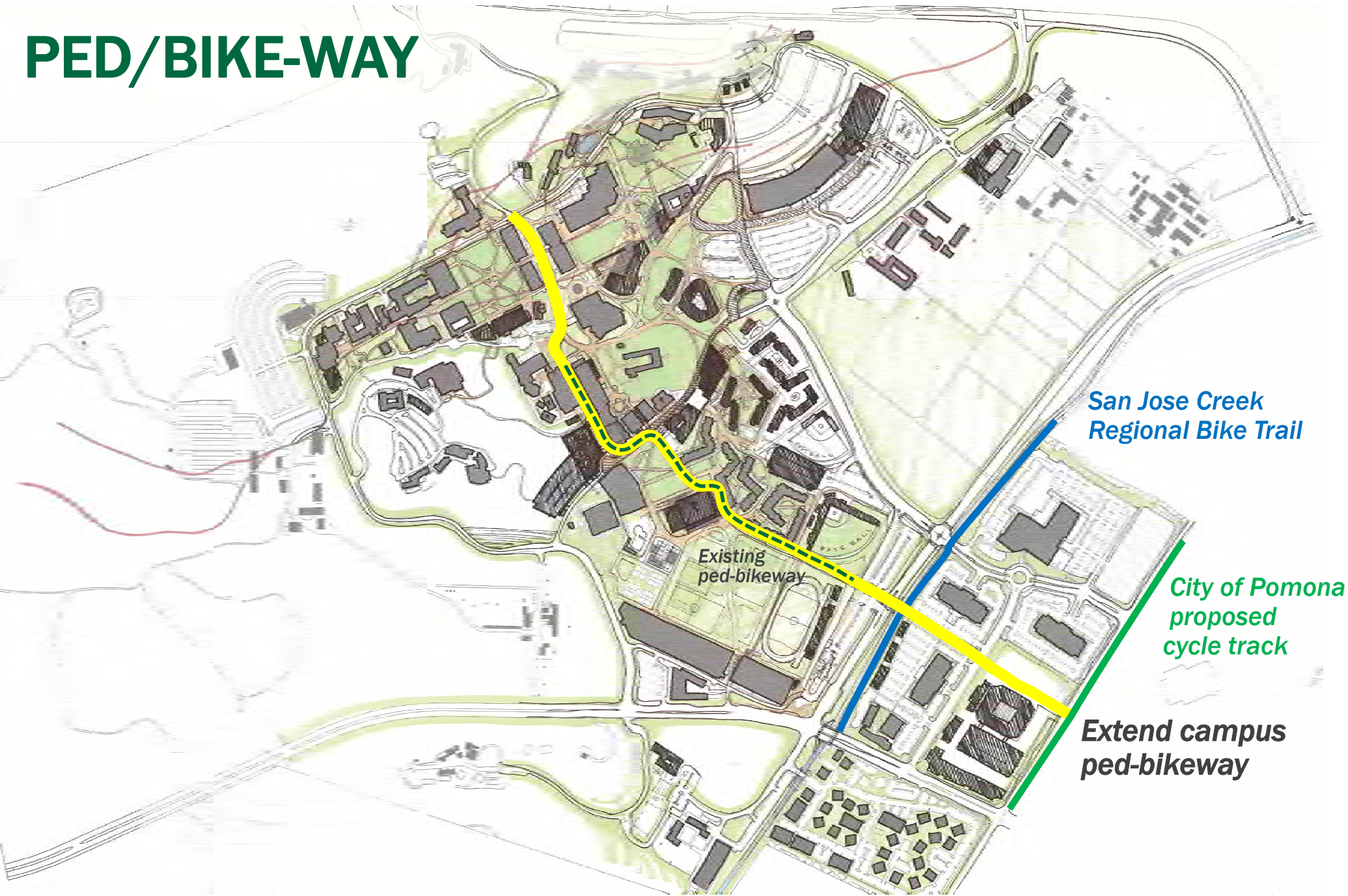


Create Gathering Spaces with Seating, Shade

PED/BIKE-WAY



PED/BIKE-WAY



*San Jose Creek
Regional Bike Trail*

*Existing
ped-bikeway*

*City of Pomona
proposed
cycle track*

**Extend campus
ped-bikeway**

Address:

- ✓ I-10 exit reconfiguration to reduce through traffic
- ✓ Expand the pedestrian zone with improved pedestrian malls/walks
- ✓ Enhance pedestrian safety
- ✓ Enhance bike connectivity
- ✓ Improve on-campus transit (*get the bus out of traffic*)
- ✓ Provide better regional transit connections

MOBILITY AREAS OF STUDY



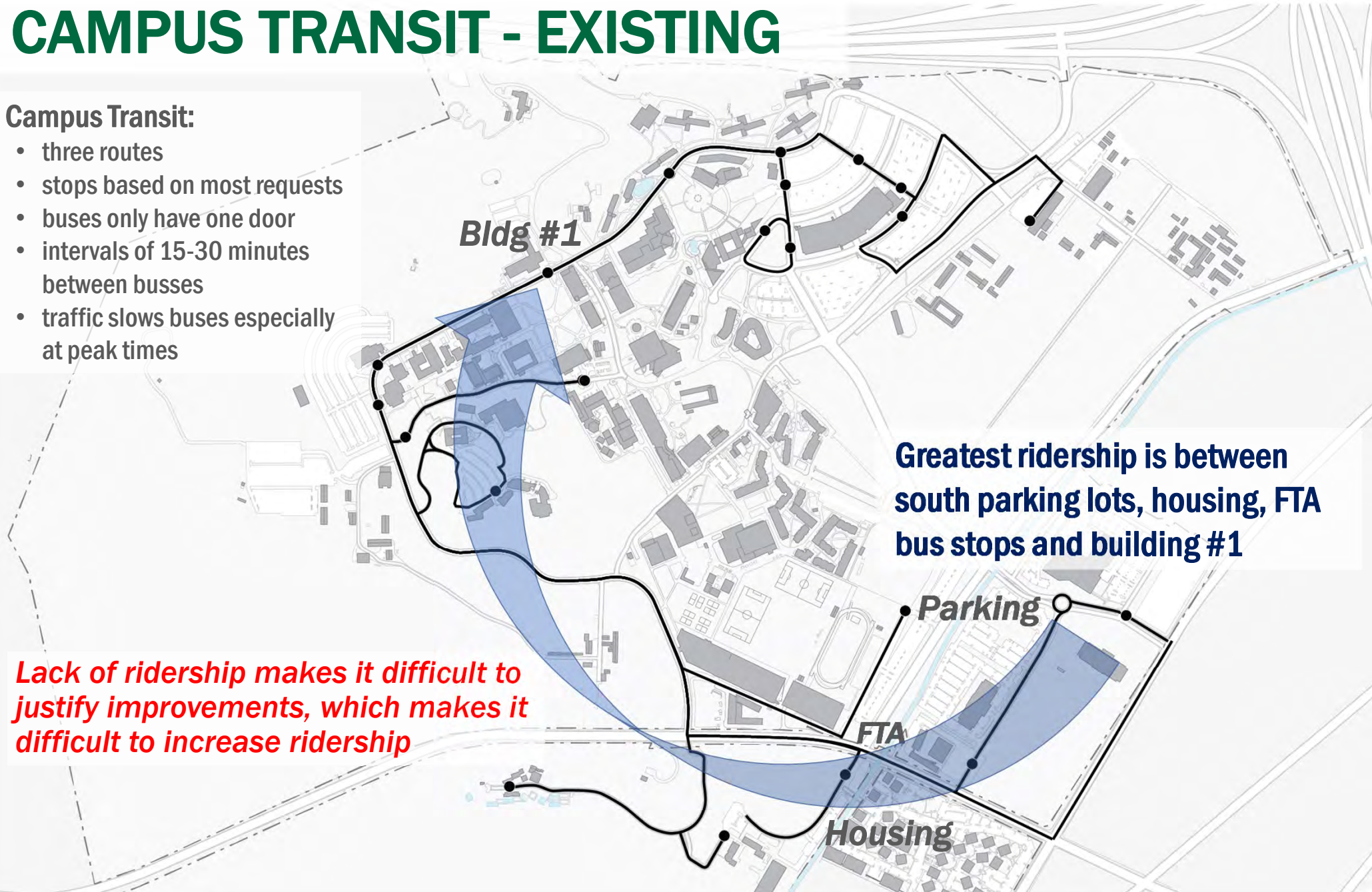
CAMPUS TRANSIT - EXISTING

Campus Transit:

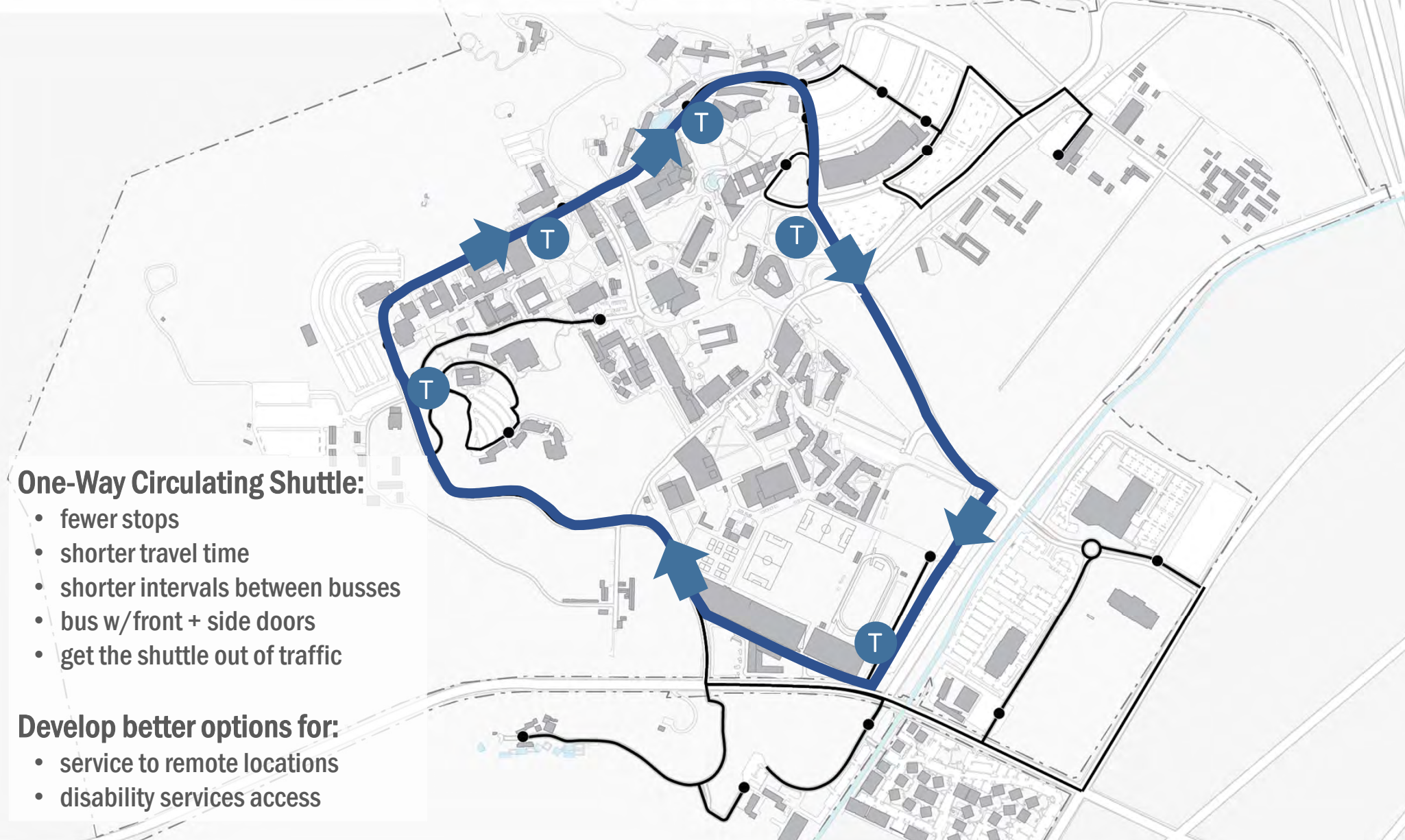
- three routes
- stops based on most requests
- buses only have one door
- intervals of 15-30 minutes between busses
- traffic slows buses especially at peak times

Lack of ridership makes it difficult to justify improvements, which makes it difficult to increase ridership

Greatest ridership is between south parking lots, housing, FTA bus stops and building #1



CAMPUS TRANSIT - PROPOSED



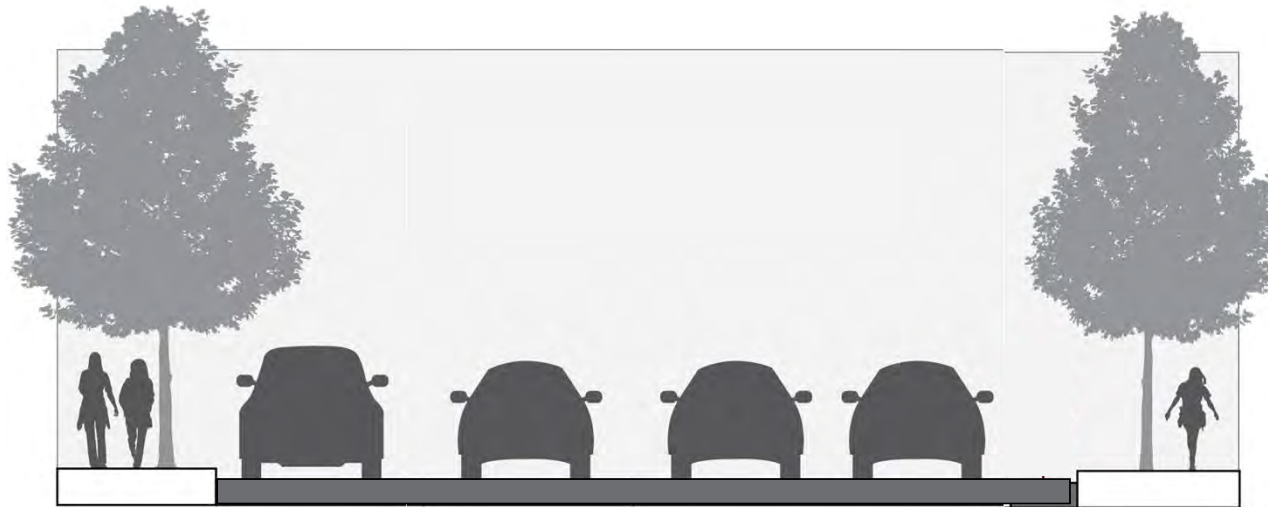
One-Way Circulating Shuttle:

- fewer stops
- shorter travel time
- shorter intervals between busses
- bus w/front + side doors
- get the shuttle out of traffic

Develop better options for:

- service to remote locations
- disability services access

UNIVERSITY DRIVE TRANSFORMATION



Existing: limited sidewalks parking vehicle travel - 2 way parking sidewalks (*width varies*)

Street Sections

UNIVERSITY DRIVE TRANSFORMATION



Proposed:

2 way travel lanes
*(eliminate on-street parking
except pull-outs for
ADA/Med)*

1 way transit
+ bikes

widen sidewalks
on south side

Street Sections

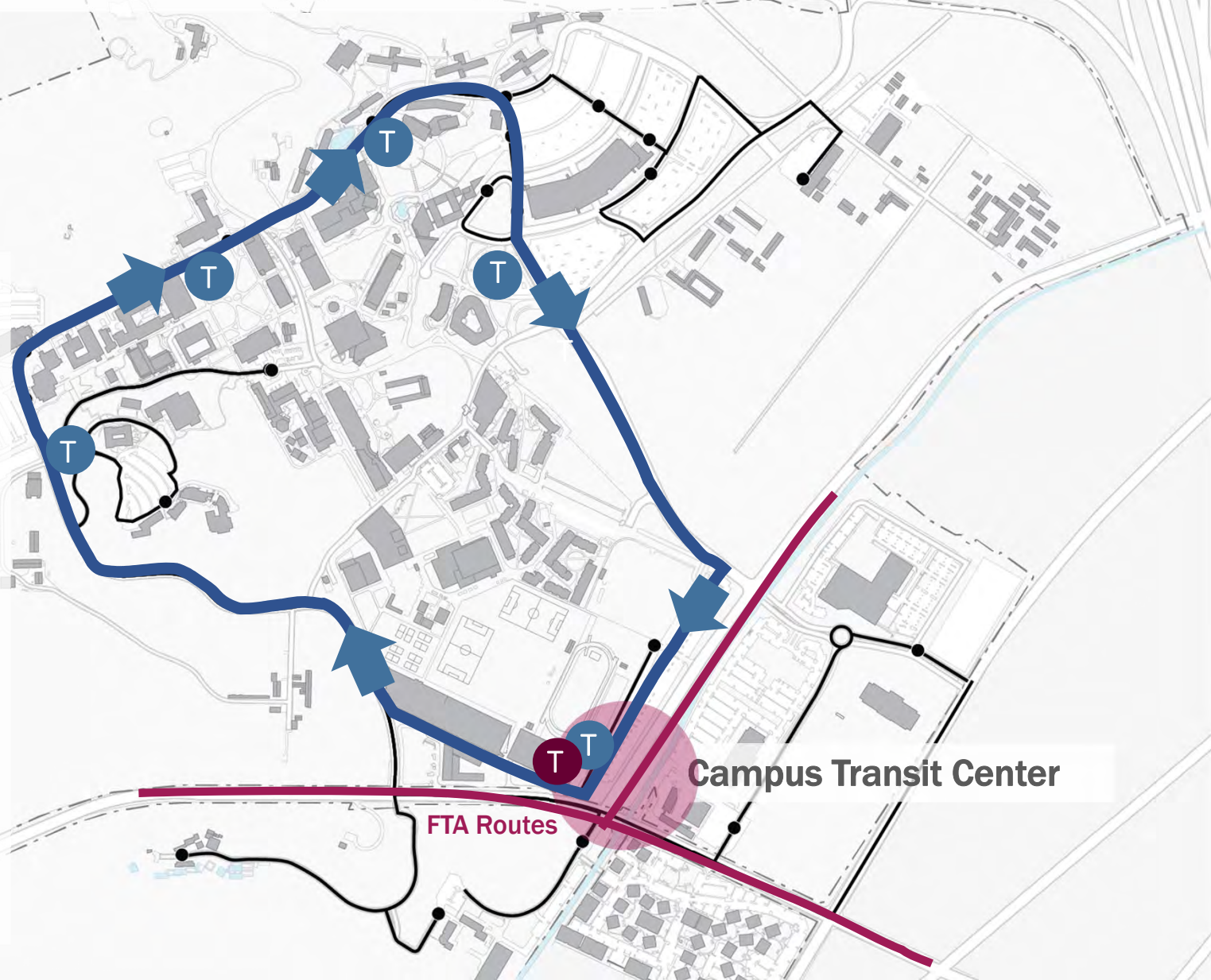
CAMPUS TRANSIT - PROPOSED

Transit Center:

- Connect to parking
- On-campus shuttles
- Local/regional busses
- Metrolink shuttles
- Auto + bike share hub
- Uber/Lyft circle

Should include:

- Safe, sheltered waiting
- Real-time tracking
- Transit information
- Purchase passes



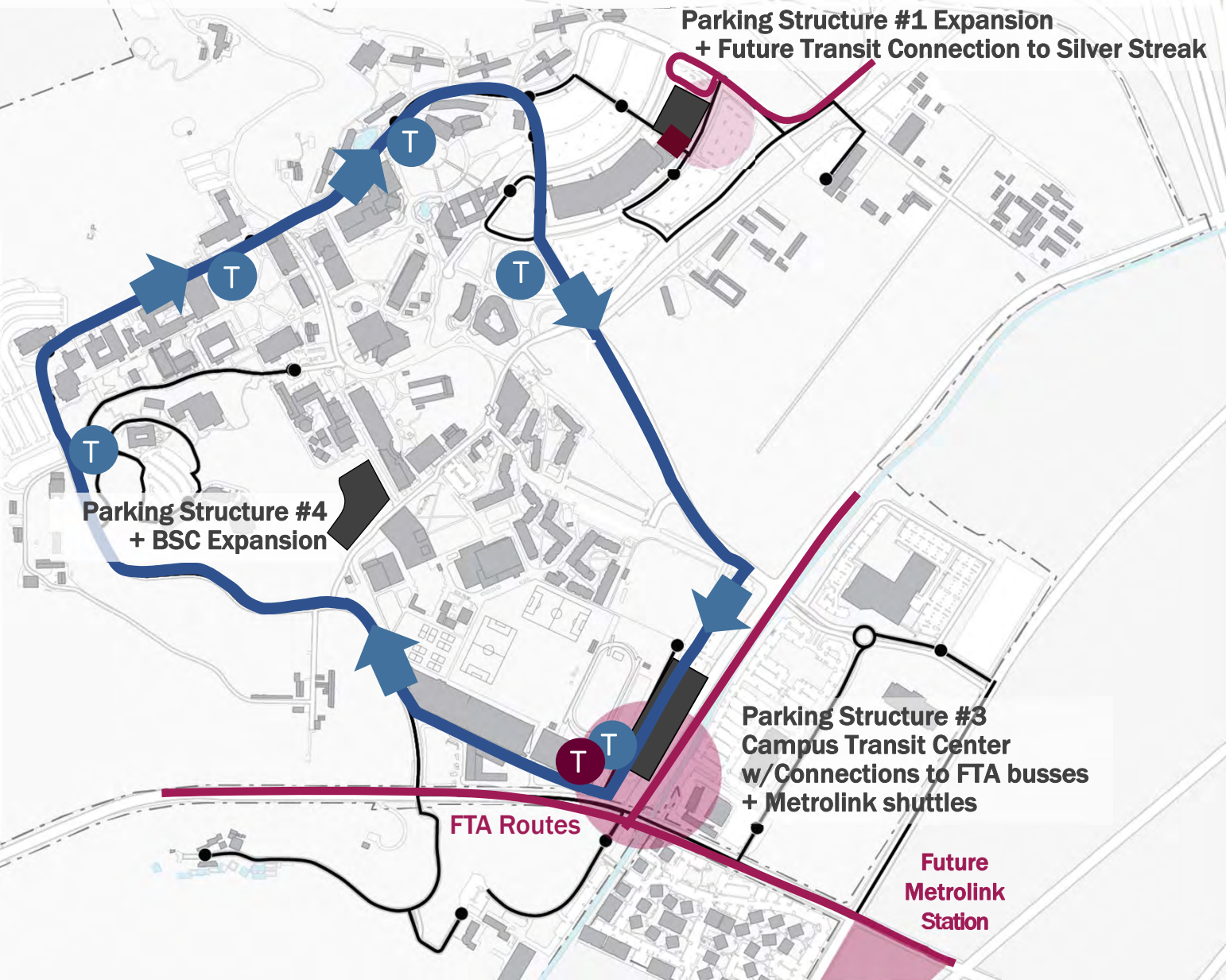
Campus Transit Center

FTA Routes

TRANSIT + PARKING STRUCTURES

SCORE

- Metrolink Partnership w/BNSF
- 10 yr, \$10 Billion
- Phase 1 funded for SB-Las Dimas line
 - 2 trains/hr both ways, all day
 - target is every 15 min
 - Pomona North Station
- Spadras bypass shifts freight to UP rail corridor opens door for Metrolink on BSNF corridor along Valley Drive



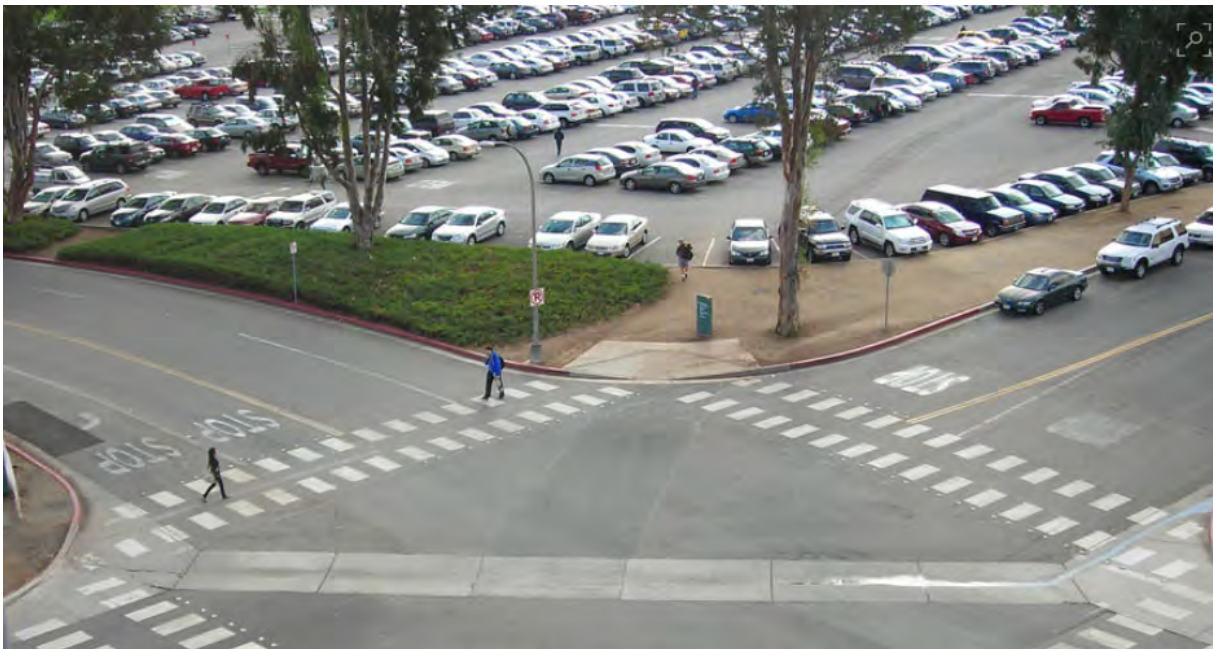
TRANSPORTATION – 2009 CAP GOALS

1. Reduce student commuting population from 88% to 73%
2. Reduce faculty and staff commuting by 10%
3. 40% of population using alternatives to SOV's to commute



Scope 3

Emissions that are a consequence of Cal Poly Pomona's operations that are not owned or controlled by the University, primarily commuting, travel, and purchased goods.



Students:

80% Drive Alone

8.5% Carpool

4.3% Transit

2009 Data

TRANSPORTATION – 2009 CAP GOALS

Strategies:

Increase use of alternative modes of transportation

- Transit Center to improve transit connections, convenience
- Foothills Transit ‘class pass’ program - *free to users, annual cost to university after 1st year*
- Silver Steak stop (*demonstrate rider demand*)
- Metrolink connections
 - *shuttles to Pomona North Station, San Bernadino Line*
 - *lobby for new stop on Riverside Line (BNSF on Valley Blvd)*
- Use technology – *real-time ride-matching/sharing aps, transit route apps*
- More housing on/near campus – *need policies to discourage resident parking on campus*
- More student employment options on/near campus – *South Campus, Innovation Village?*
- Provide more robust information + hands-on experience during orientation

Incentivize less parking with policies + pricing

Increase parking efficiency + utilization to reduce land dedicated for parking

PARKING DISTRIBUTION

Proposed parking changes

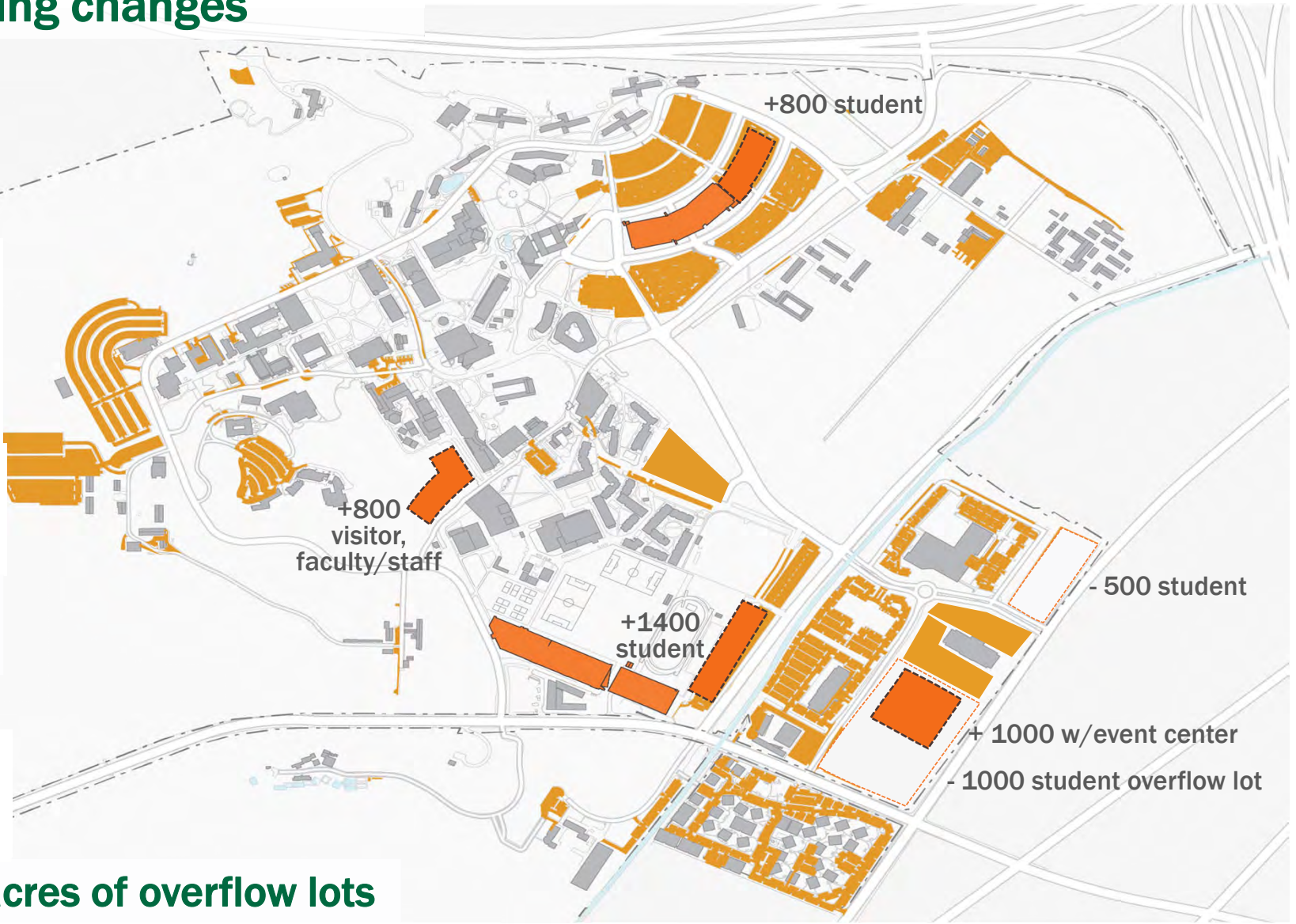
Student	8,983
Faculty/Staff	1,356
Disabled	271
Visitor	135
Housing	1,727
Other	745

13,217
TOTAL CAMPUS SPACES

12 acres

+2,500
TOTAL ADDED SPACES

eliminate 3-5 acres of overflow lots



Space Analysis and Utilization

Preliminary Findings

- *Fall 2017 showed rooms highly scheduled, but utilization still short of CSU targets*
- *Fall 2018 shows even higher scheduling*
- *CPP consistently teaches (FTEs) above the CSU calculated capacity and continues to grow*
- *Instructional environmental standards are not ideal for 'hands-on' learning*

SPACE CAPACITY - UTILIZATION FINDINGS

Fall 2017

8:00 AM	53% 83 Rooms	61% 96 Rooms	51% 81 Rooms	59% 94 Rooms	42% 67 Rooms	Total classrooms = 158
9:15 AM	73% 115 Rooms	66% 105 Rooms	72% 113 Rooms	66% 104 Rooms	59% 94 Rooms	
10:00 AM	73% 115 Rooms	92% 145 Rooms	72% 113 Rooms	91% 144 Rooms	59% 93 Rooms	
10:30 AM	79% 125 Rooms	92% 146 Rooms	77% 121 Rooms	92% 145 Rooms	63% 99 Rooms	
11:45 AM	78% 124 Rooms	91% 143 Rooms	77% 122 Rooms	91% 143 Rooms	61% 96 Rooms	
1:00 PM	48% 76 Rooms	98% 155 Rooms	53% 83 Rooms	96% 152 Rooms	28% 45 Rooms	
2:00 PM	92% 146 Rooms	97% 154 Rooms	91% 143 Rooms	95% 150 Rooms	25% 40 Rooms	
3:00 PM	85% 134 Rooms	84% 133 Rooms	82% 130 Rooms	84% 132 Rooms	23% 37 Rooms	
4:00 PM	83% 131 Rooms	85% 134 Rooms	82% 130 Rooms	82% 130 Rooms	8% 12 Rooms	
5:00 PM	78% 124 Rooms	57% 90 Rooms	79% 125 Rooms	55% 87 Rooms	4% 6 Rooms	
6:00 PM	70% 110 Rooms	77% 121 Rooms	73% 115 Rooms	75% 119 Rooms	1% 2 Rooms	
7:00 PM	69% 109 Rooms	56% 88 Rooms	73% 116 Rooms	56% 88 Rooms	1% 2 Rooms	
8:00 PM	26% 41 Rooms	42% 66 Rooms	27% 42 Rooms	42% 67 Rooms	1% 2 Rooms	
	Monday	Tuesday	Wednesday	Thursday	Friday	

Fall 2018

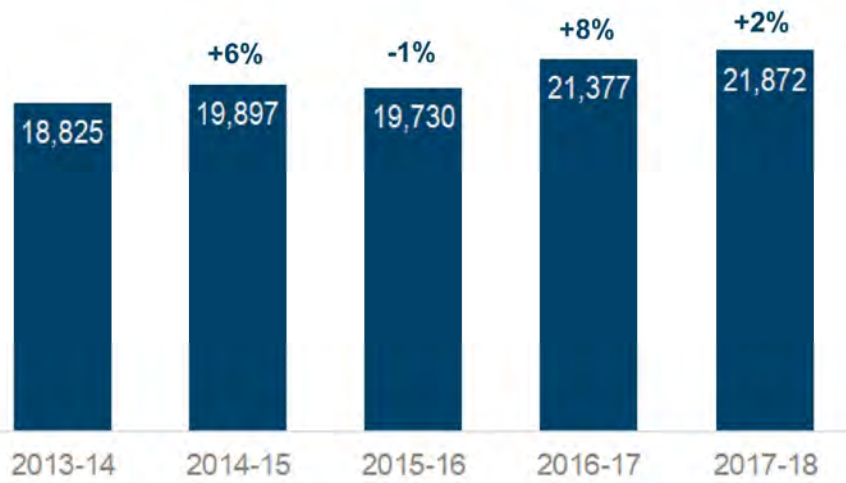
8:00 AM	73% 116 Rooms	76% 120 Rooms	72% 113 Rooms	76% 120 Rooms	66% 104 Rooms	Total classrooms = 158
9:15 AM	70% 110 Rooms	77% 122 Rooms	68% 107 Rooms	77% 122 Rooms	61% 96 Rooms	
10:00 AM	77% 121 Rooms	91% 143 Rooms	76% 120 Rooms	89% 141 Rooms	61% 97 Rooms	
10:30 AM	91% 144 Rooms	94% 148 Rooms	90% 142 Rooms	94% 149 Rooms	68% 108 Rooms	
11:45 AM	90% 142 Rooms	16% 25 Rooms	91% 144 Rooms	16% 25 Rooms	49% 78 Rooms	
1:00 PM	94% 149 Rooms	96% 152 Rooms	94% 148 Rooms	95% 150 Rooms	30% 47 Rooms	
2:00 PM	96% 152 Rooms	98% 155 Rooms	96% 151 Rooms	97% 154 Rooms	23% 37 Rooms	
3:00 PM	86% 136 Rooms	91% 143 Rooms	87% 137 Rooms	87% 137 Rooms	17% 27 Rooms	
4:00 PM	82% 129 Rooms	83% 131 Rooms	83% 131 Rooms	80% 127 Rooms	9% 15 Rooms	
5:00 PM	88% 139 Rooms	90% 142 Rooms	91% 144 Rooms	89% 140 Rooms	6% 9 Rooms	
6:00 PM	72% 113 Rooms	72% 113 Rooms	79% 125 Rooms	65% 103 Rooms	4% 6 Rooms	
7:00 PM	56% 89 Rooms	54% 86 Rooms	59% 94 Rooms	49% 78 Rooms	1% 1 Rooms	
8:00 PM	53% 84 Rooms	56% 88 Rooms	56% 88 Rooms	51% 81 Rooms	1% 2 Rooms	
	Monday	Tuesday	Wednesday	Thursday	Friday	

SPACE CAPACITY - UTILIZATION FINDINGS

FTE Capacity v. Actual Total FTEs Taught

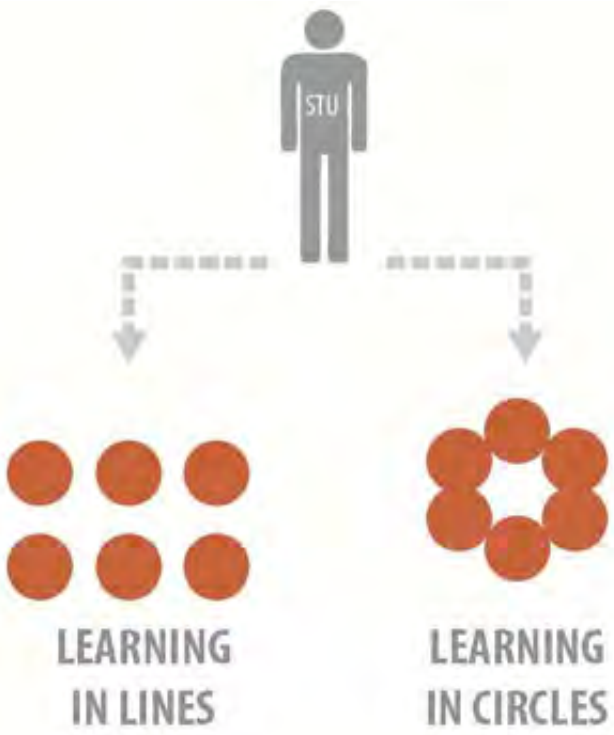
College Year Annualized Full-Time Equivalent Students (FTES)					6/20/2018
California State Polytechnic University, Pomona					
	2013-14	2014-15	2015-16	2016-17	2017-18
1) CSU FTES Capacity for Campus	*	*	17,993.00	18,292.00	18,292.00
2) CSU Resident FTES Target	17,356.00	17,756.00	18,294.00	18,586.00	18,714.00
3) Campus total FTES Goal	18,244.00	18,769.00	19,794.00	20,870.00	21,443.30
4) Actual total FTES Taught	18,825.00	19,897.00	19,730.00	21,376.90	21,872.20
Percent of Capacity			110%	117%	120%
1) CSU FTES Capacity for Campus is a calculation used in the analysis of new space needs					
* If necessary, older figures could be researched.					
2) CSU Resident FTES Target is budget teaching expectation for California resident students					
3) Campus total FTES Goal is planned teaching expectation for all students, resident plus non-resident					
4) Actual total FTES Taught is final college-year outcome					
Prepared by Academic Research and Resources					

Actual Total FTEs Taught



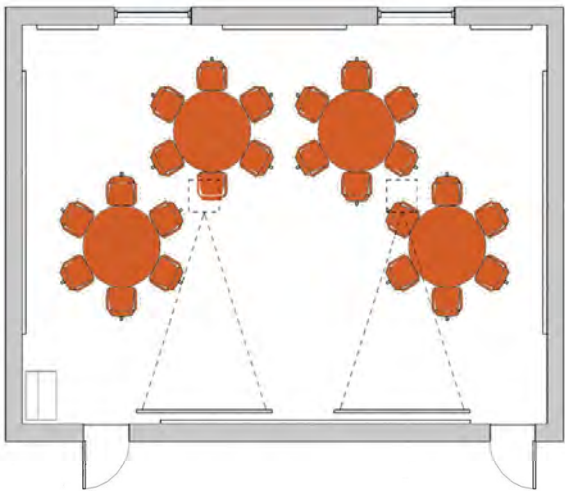
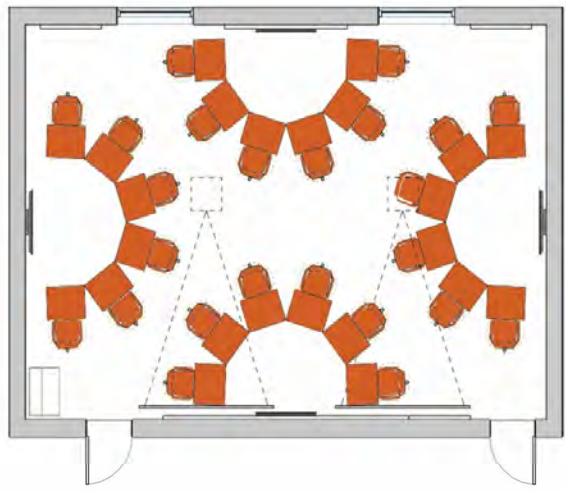
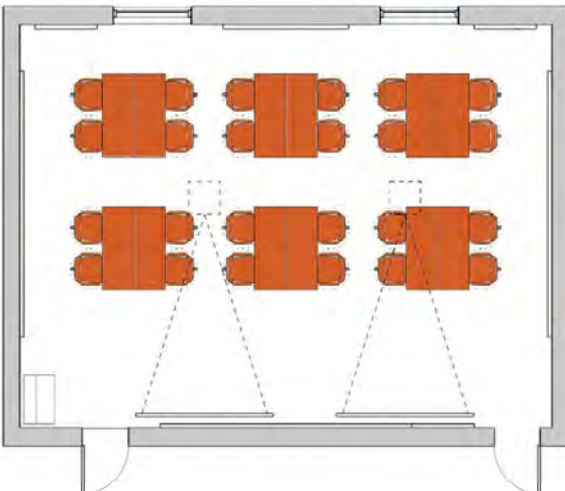
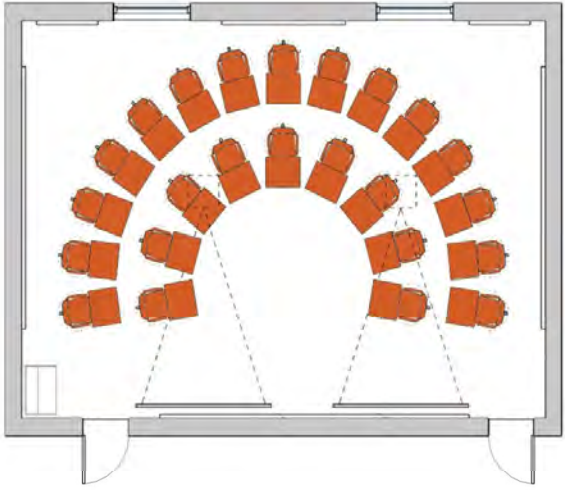
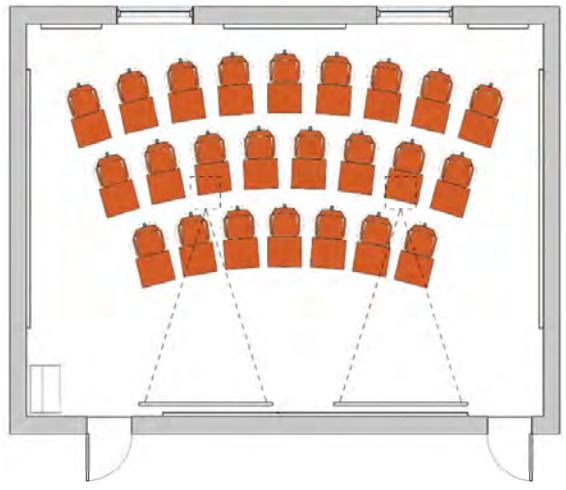
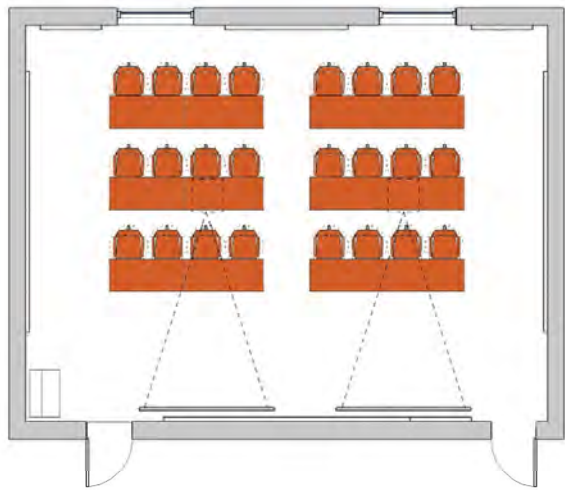
Overall a 16% Increase over 5 years

LEARNING ENVIRONMENTS FOR STUDENT SUCCESS



SPACE ACCOMMODATES VARYING APPROACHES

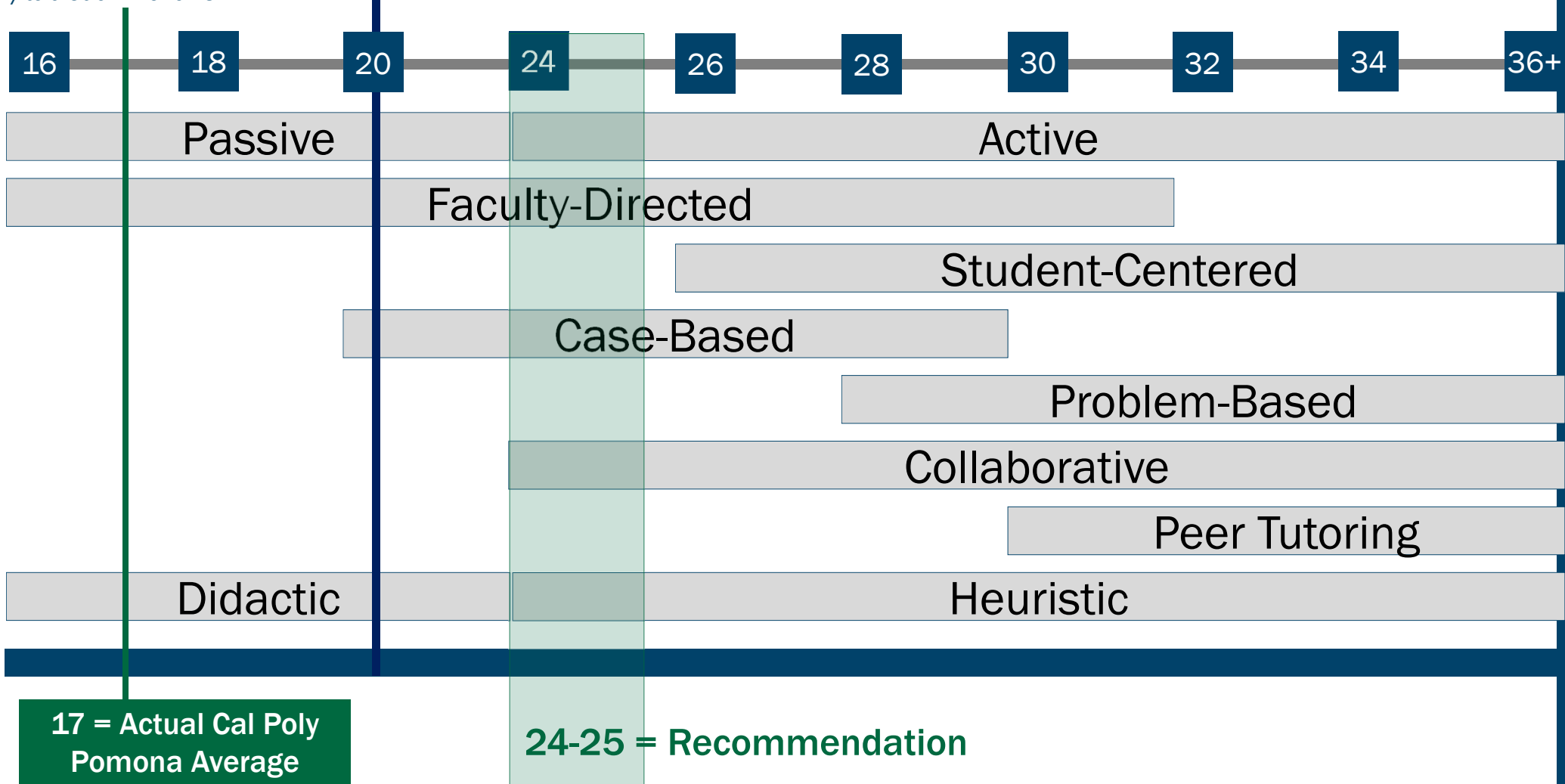
850 NASF / 24 STU = 35 SF/STU



NASF/SEAT FOR LEARNING MODALITIES

15 = CSU Standard for Lecture w/tablet-arm chairs

20 = CSU Standard for Lecture w/tables + chairs



17 = Actual Cal Poly Pomona Average

24-25 = Recommendation



**FORWARD FACING
TABLET ARM CHAIRS = 15 SF/SEAT**





**FORWARD FACING
CHAIRS + TABLES IN ROWS = 20 SF/SEAT**





**LECTURE HALL, FORWARD FACING + COLLABORATIVE
TABLES IN ROWS + MOVABLE CHAIRS = 24 SF/SEAT**





LEARNING LAB, MULTIPLE FRONTS
COLLABORATIVE TABLES + TECHNOLOGY = 24-30 SF/PERSON



Specific Area-Facility Studies

- Academic Needs
- Bldg 98-CLA Replace or Reinforce/Renovate
- Bronco Student Center
- Student Housing – Dining Replacement
- Recreation/Athletics
- Innovation Village

FACILITY/SITE AREAS FOR STUDY

Address:

- ✓ Identify sites for HUBS shared, academic facilities
 - Improve/replace Bldg 98 CLA (*seismic*)
 - Bring remote academic uses back into the core
 - Remove Temporary/Modular/Portables
 - Plan for seismic demo or replacement (98 CLA, dorms, dining)
- Improve + Expand BSC + Campus Center
- Student housing replacement + future growth
- Relocate Child Care Center, Health + Wellness Center,
- Athletics and Recreation growth?



ACADEMIC NEEDS

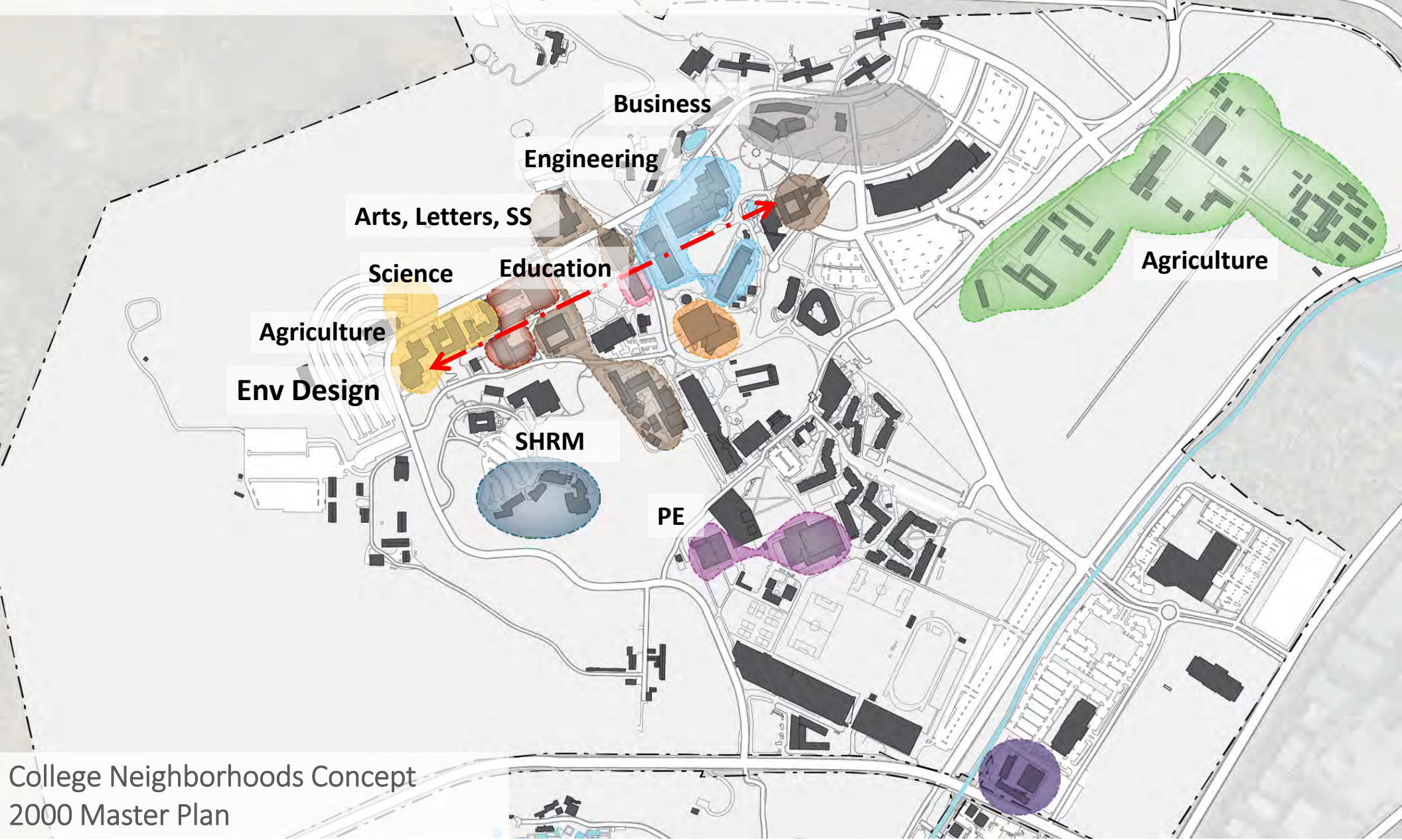
- Instructional Space, especially labs, flex studios, and shared project space resources
- CLA – renovate or replace?
- Eng/Art Annex – renovate, expand?
- Interim Design Center – expand or reconsider, consolidate?
- Environmental Design improve, expand?
- CTTi space
- Solutions to eliminate ‘temporaries’ for instructional space
- Expanded study space, Library learning commons



Academic Facilities
needing expansion or
replacement

The image shows a detailed architectural site plan of a university campus. Several buildings are highlighted with red dashed outlines, indicating they are academic facilities that need expansion or replacement. These buildings are scattered across the campus, with a significant cluster in the central and upper-middle areas. A text box with a white background and red text is overlaid on the map, pointing to these highlighted buildings. The map also shows various roads, parking lots, and other campus infrastructure.

ACADEMIC NEIGHBORHOODS

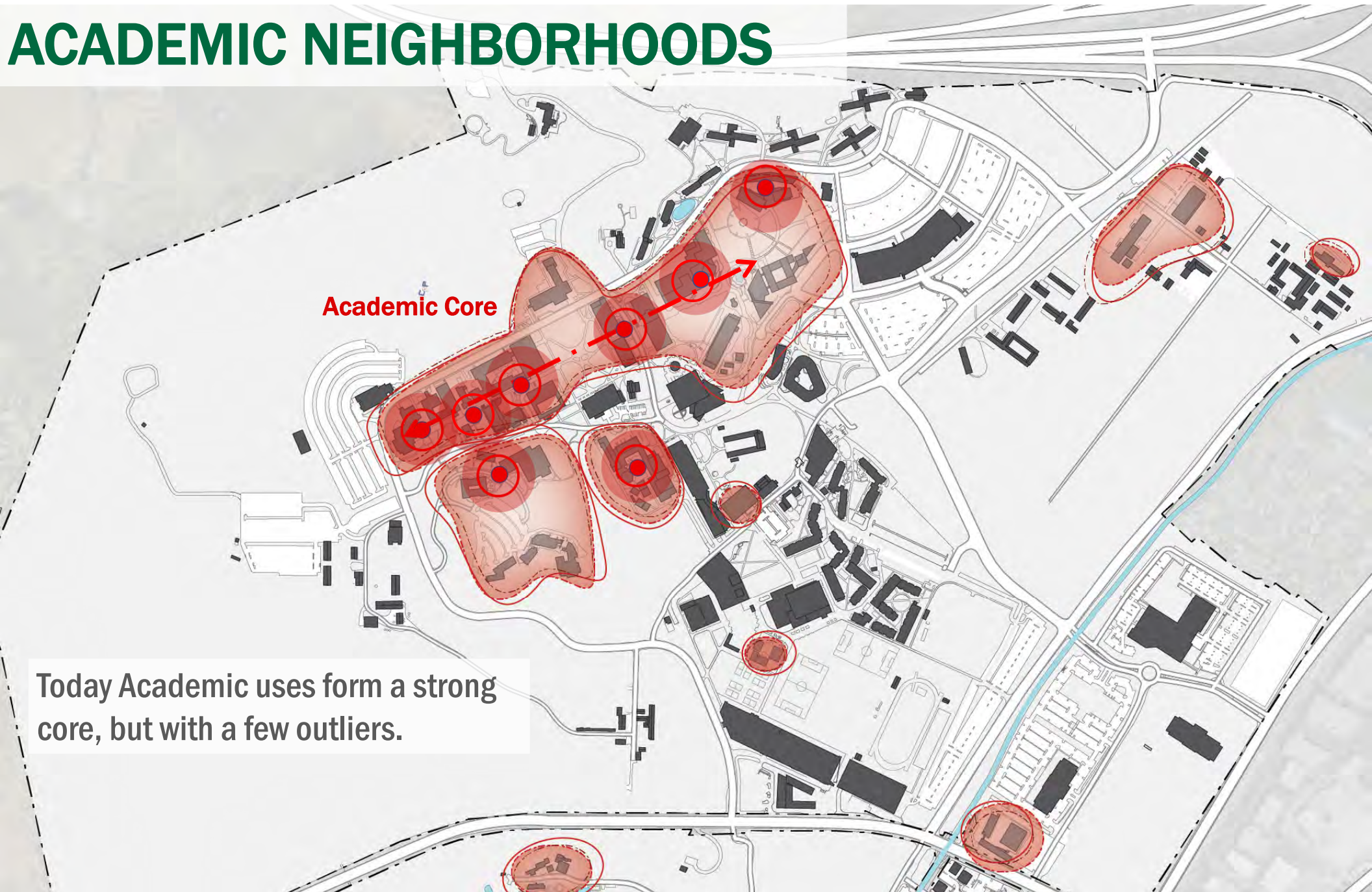


College Neighborhoods Concept
2000 Master Plan

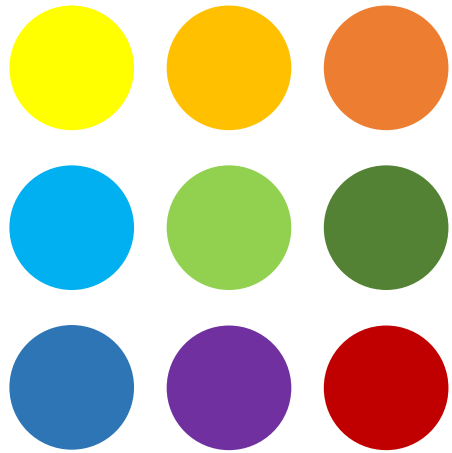
ACADEMIC NEIGHBORHOODS

Academic Core

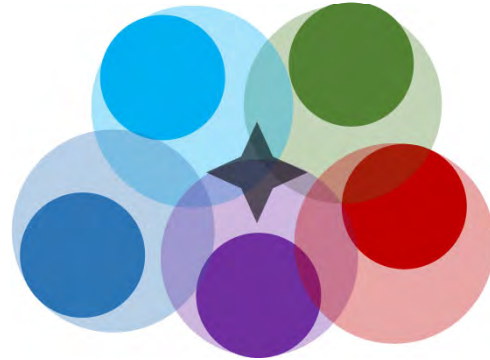
Today Academic uses form a strong core, but with a few outliers.



TRANSFORM NEIGHBORHOODS INTO HUBS

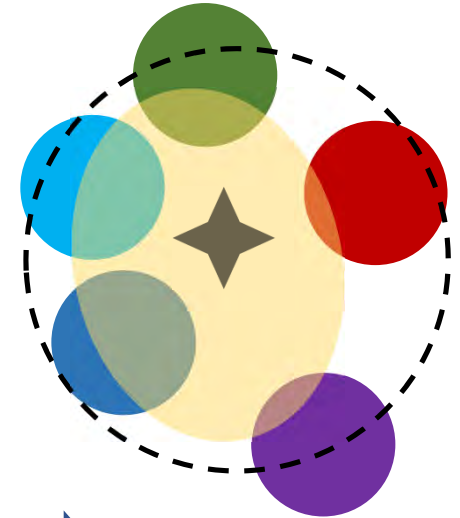


Neighborhoods



Intersections:

Sponsor interdisciplinary activity
+ opportunities for collaboration



Hubs:

Non-siloed space
resources w/ ample
interdisciplinary space

*Identify opportunities for HUBS
in smaller, intermediary
spaces, perhaps creating
'connecting' spaces between
existing academic buildings?*





DESIGN FOR HUBS + COMMONS

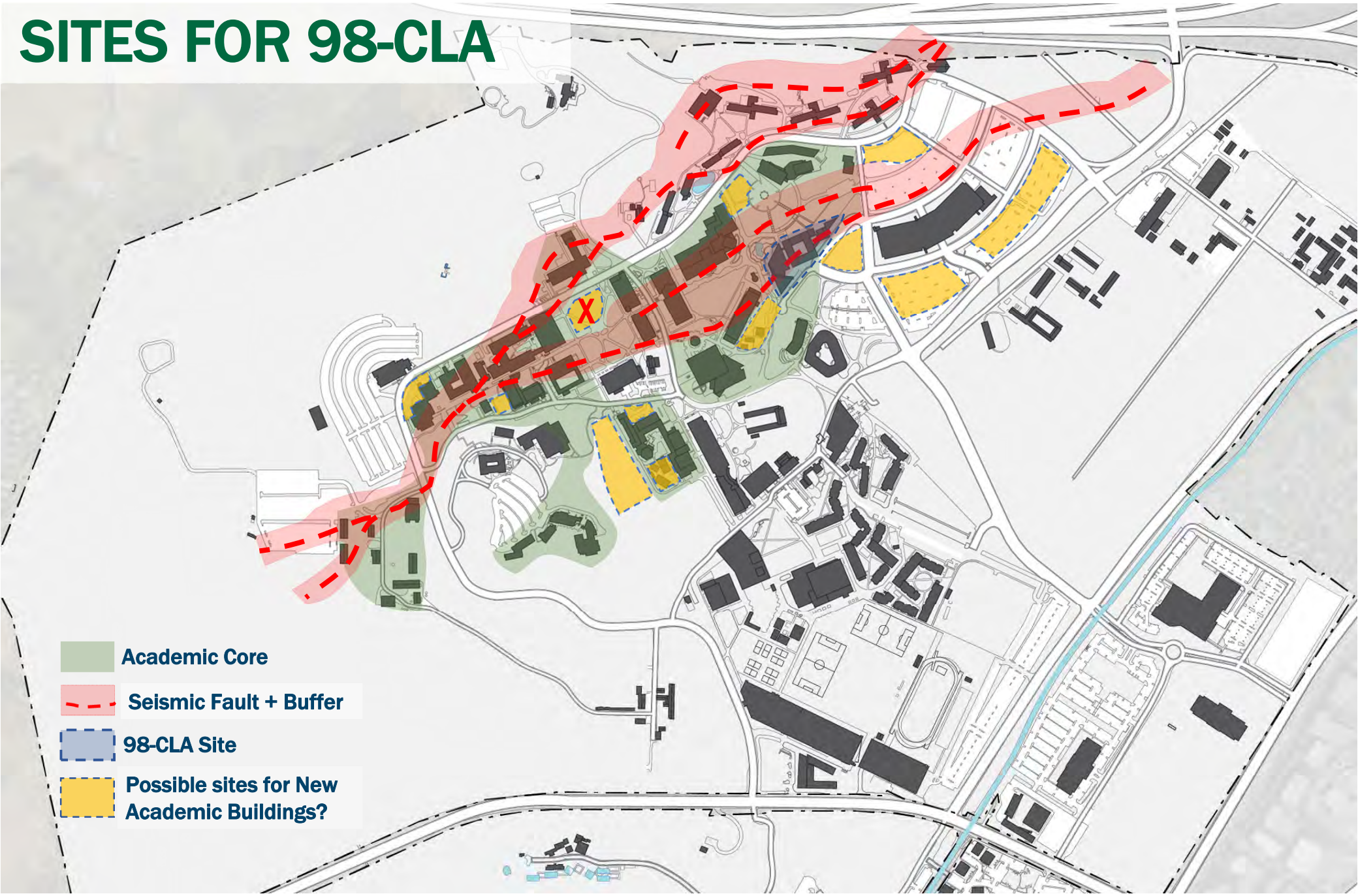


Meet me in the Middle

- Interdisciplinary space
- Visible ground floor spaces
- Small study +gathering areas
- Large incubator or collaboration space
- Flexible, open areas
- Consolidated resources for faculty + students
- Can eliminate redundancies
- Can improve utilization

SITES FOR 98-CLA

-  Academic Core
-  Seismic Fault + Buffer
-  98-CLA Site
-  Possible sites for New Academic Buildings?

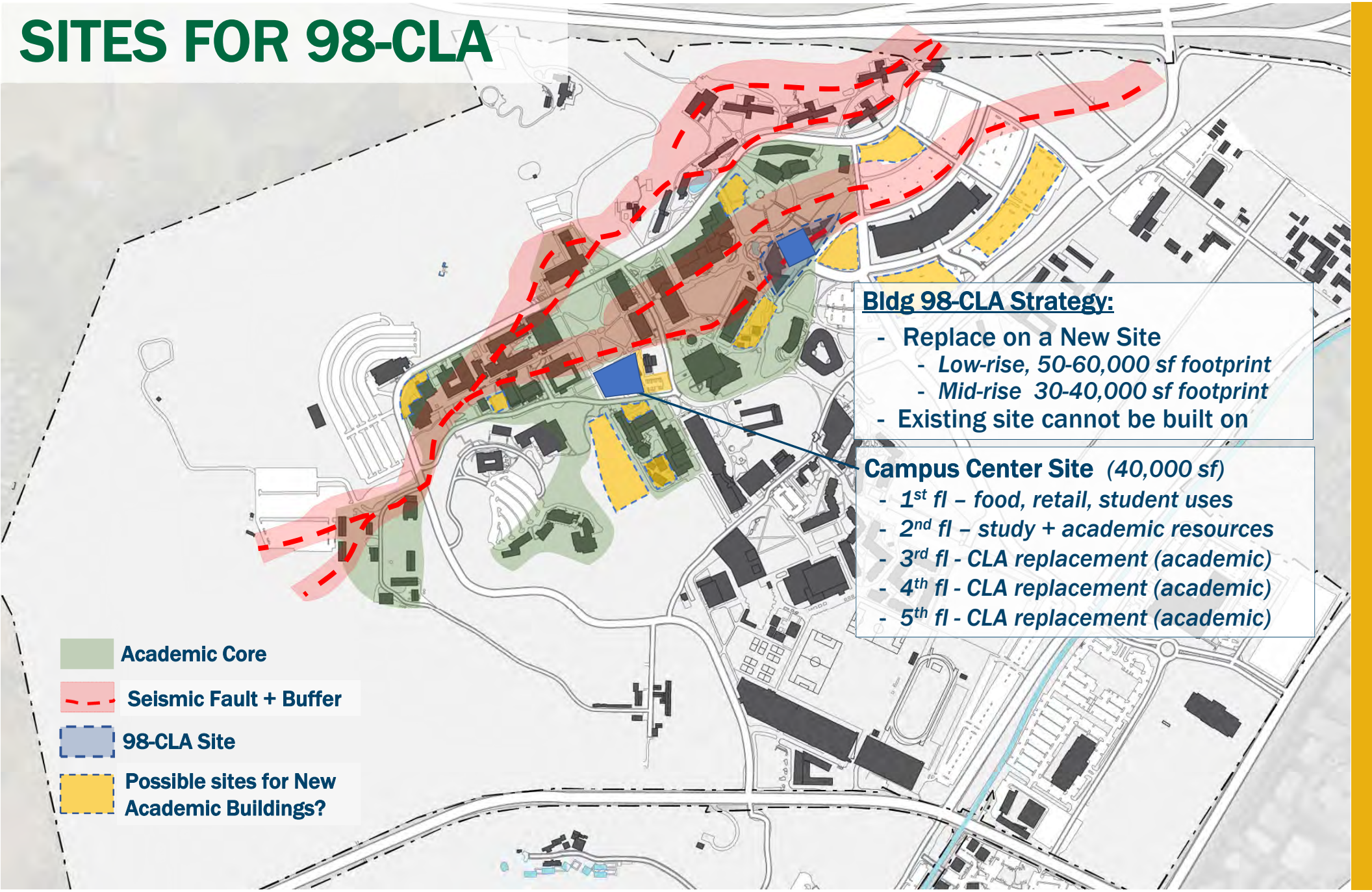


SITES FOR 98-CLA

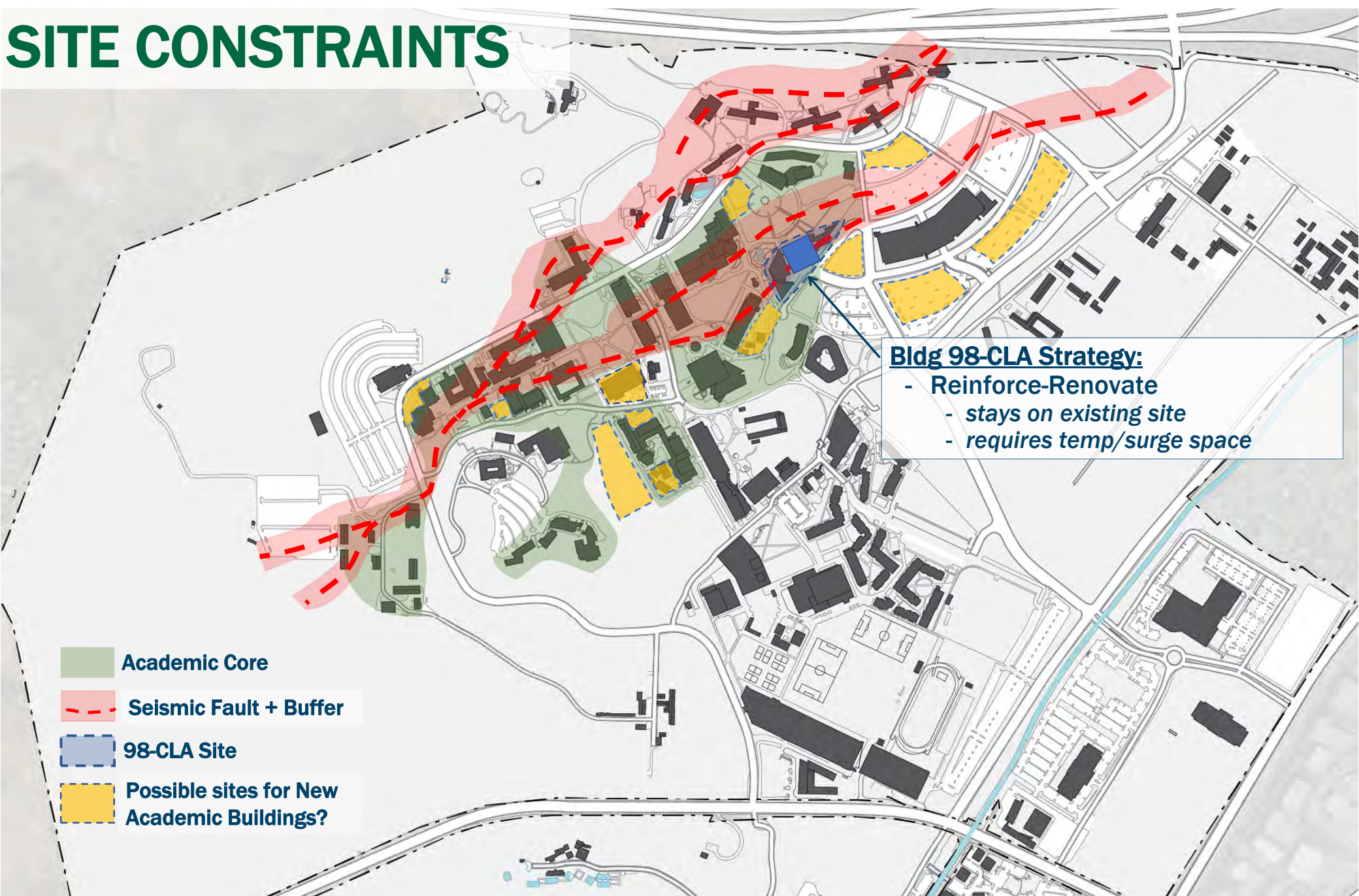
- Academic Core
- Seismic Fault + Buffer
- 98-CLA Site
- Possible sites for New Academic Buildings?

- Bldg 98-CLA Strategy:**
- Replace on a New Site
 - Low-rise, 50-60,000 sf footprint
 - Mid-rise 30-40,000 sf footprint
 - Existing site cannot be built on

- Campus Center Site (40,000 sf)**
- 1st fl - food, retail, student uses
 - 2nd fl - study + academic resources
 - 3rd fl - CLA replacement (academic)
 - 4th fl - CLA replacement (academic)
 - 5th fl - CLA replacement (academic)

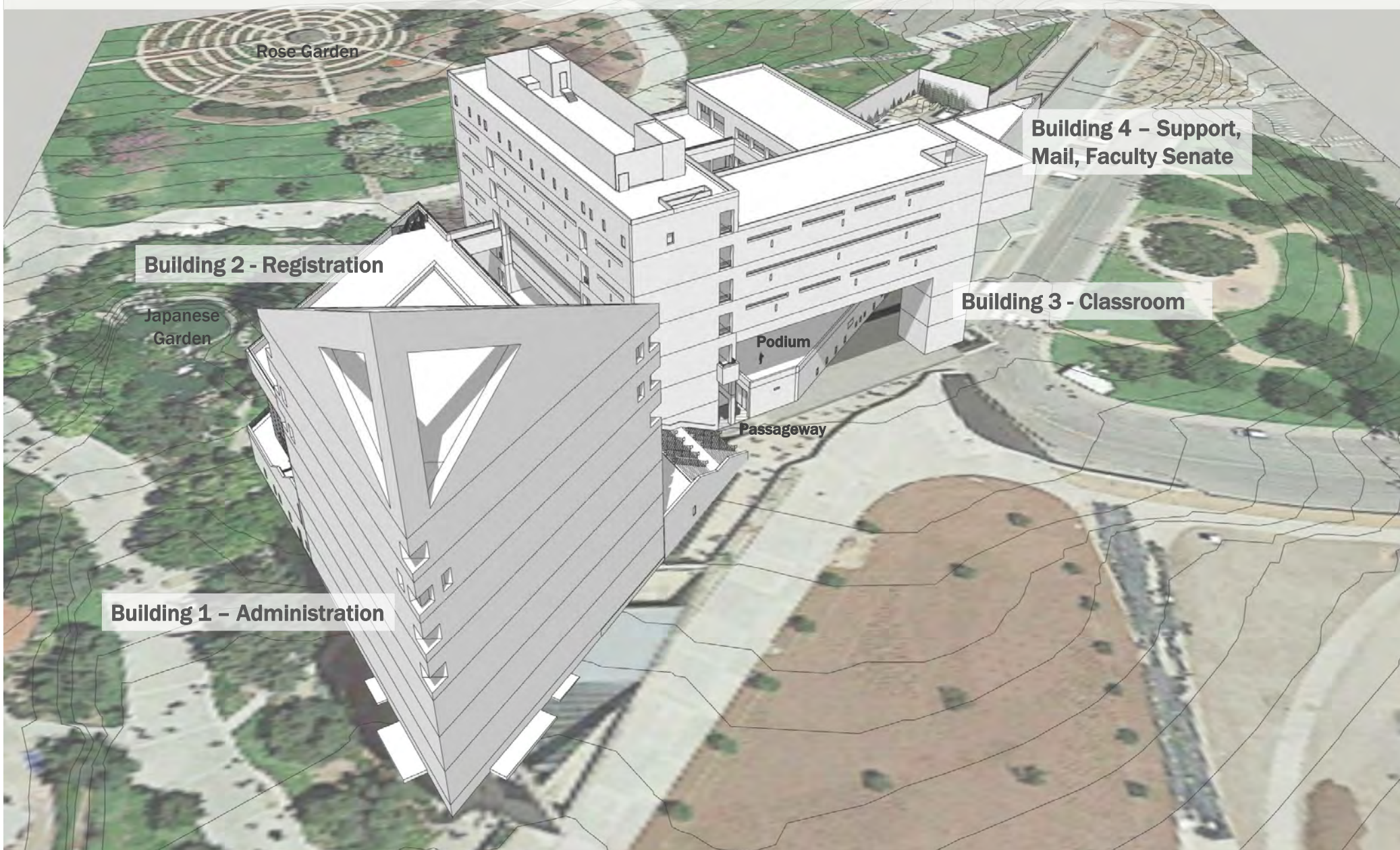


SITE CONSTRAINTS

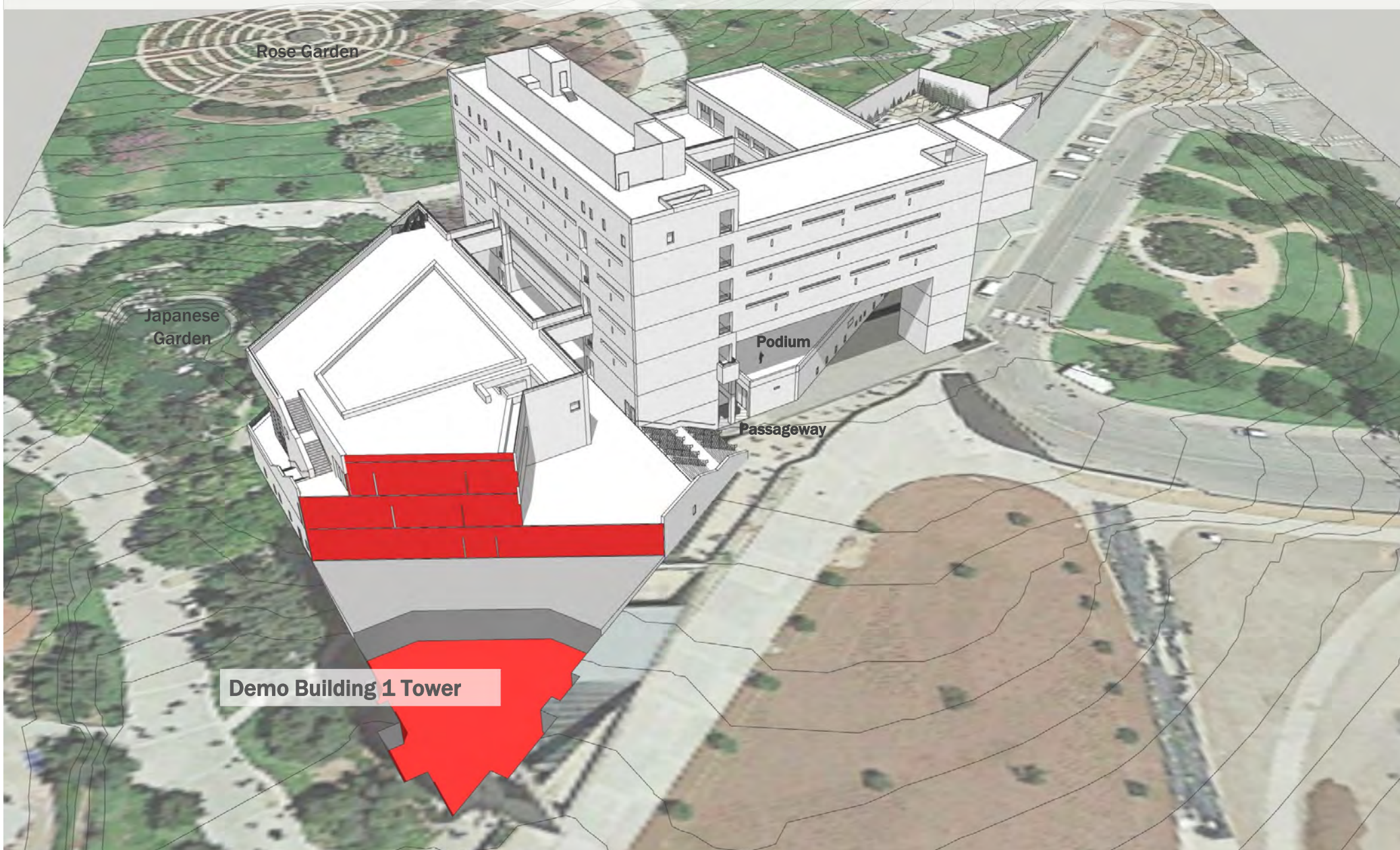


- Academic Core
- Seismic Fault + Buffer
- 98-CLA Site
- Possible sites for New Academic Buildings?

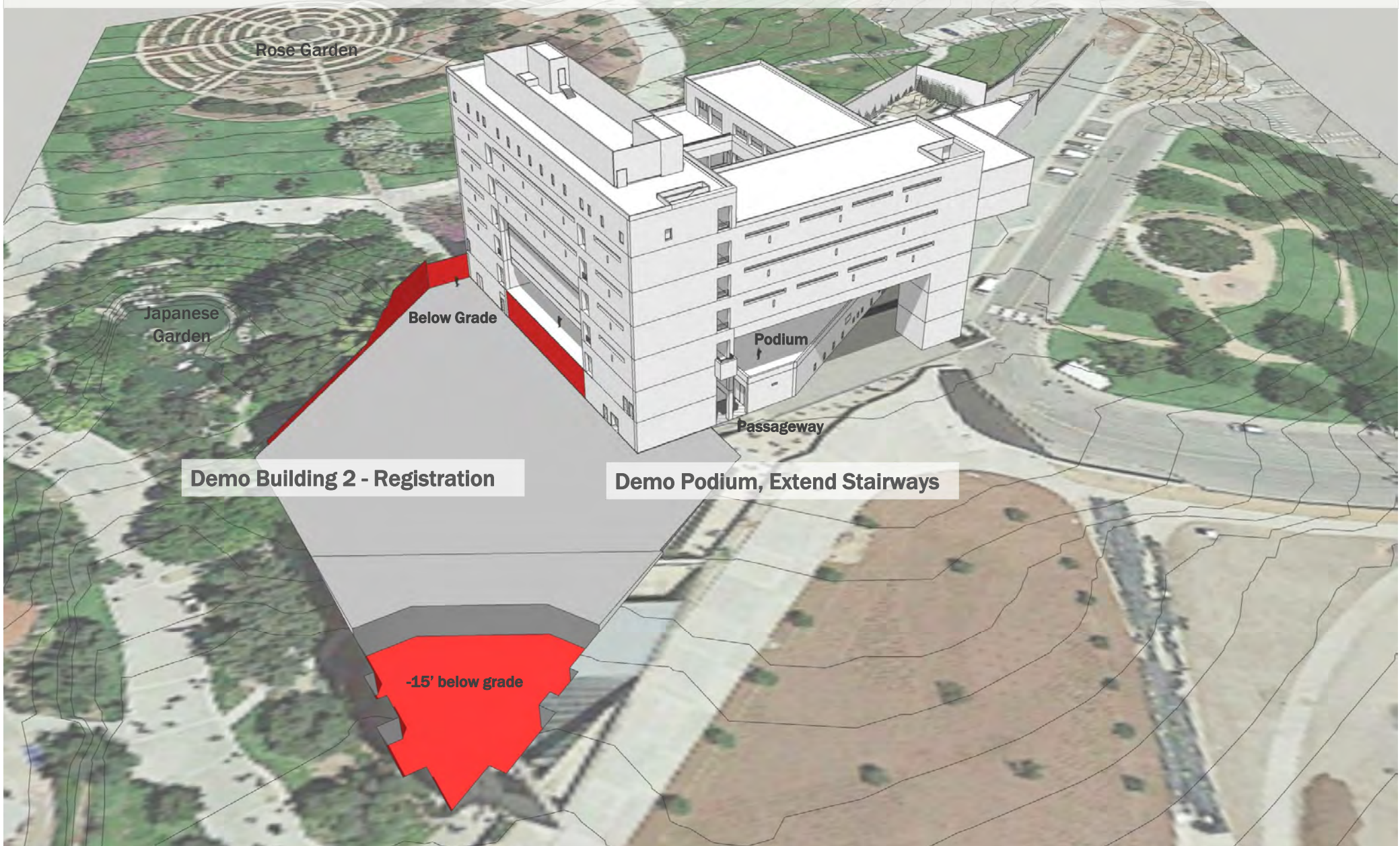
BLDG 98-CLA STUDIES: EXISTING STRUCTURE



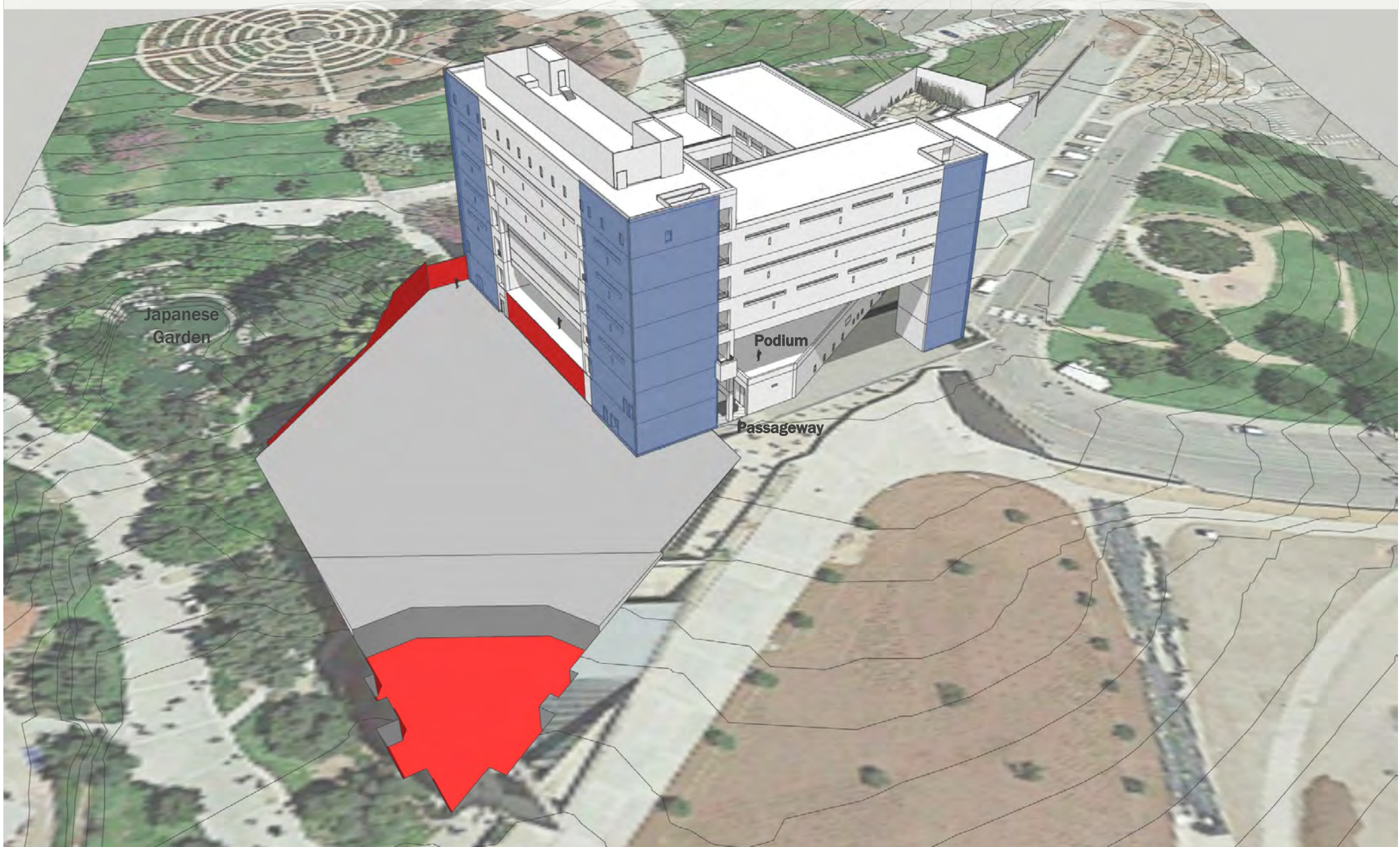
BLDG 98-CLA STUDIES: DEMO TOWER



BLDG 98-CLA STUDIES: DEMO REGISTRATION



BLDG 98-CLA STUDIES: REINFORCE CLA



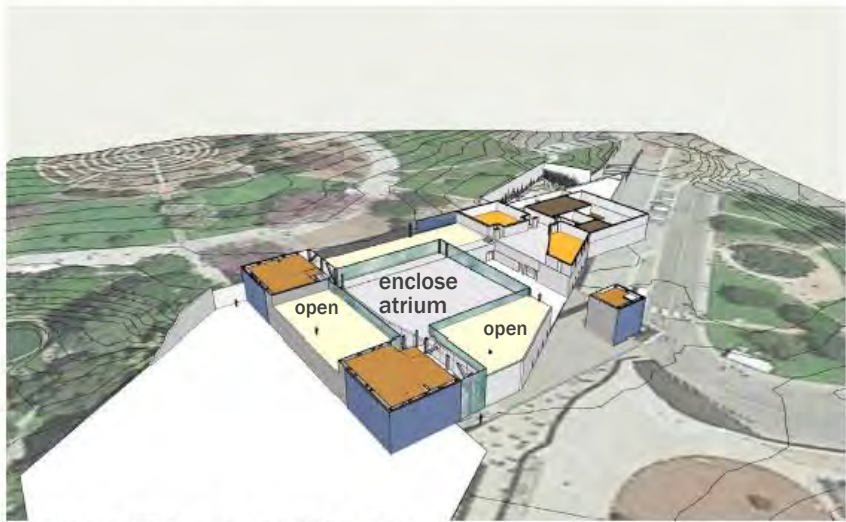
BLDG 98-CLA STUDIES: Option 1



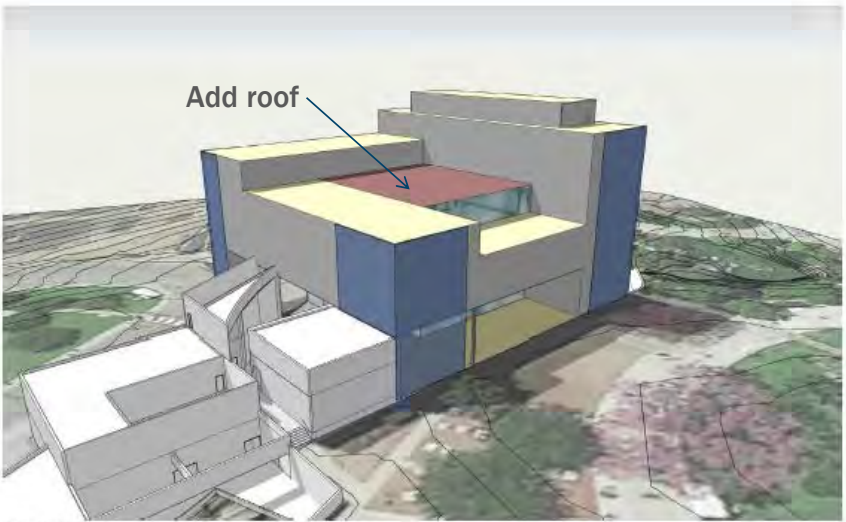
View from Southwest

OPTION 1

- 142,000 SF Gross Area (110,480 SF existing)
- 60,100 SF New exterior walls/fenestration
- 9,860 SF New exterior walls/fenestration w/ add. Structure
- 23,500 SF Structural shear wall reinforcement
- 21,950 SF Re-roofing
- 6,800 SF New roof with structure
- 15,800 SF Exterior soffit
- 7,427 SF Exterior plaza/courtyard
- 58,390 SF Assignable Area (58,390 SF existing)



View from Southwest - level 2 3D floor plan



View from Northeast

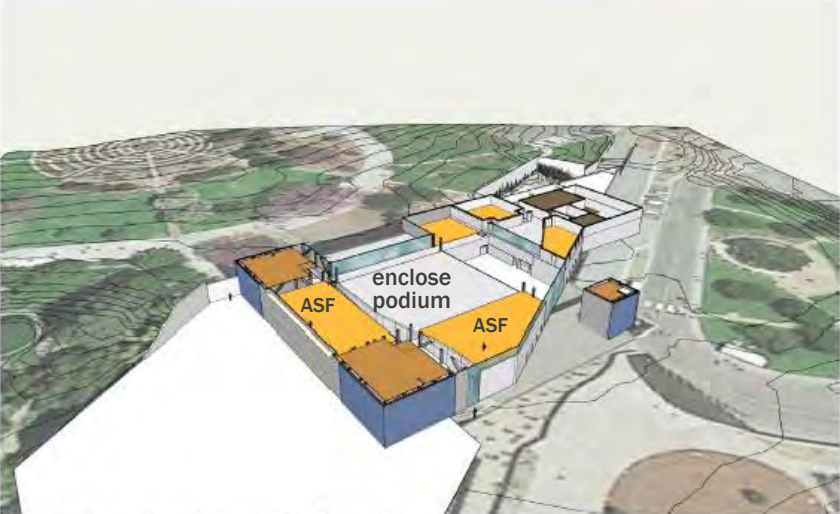
BLDG 98-CLA STUDIES: Option 2



View from Southwest

OPTION 2

- 165,000 SF Gross Area (110,480 SF existing)
- 61,700 SF New exterior walls/fenestration
- 8,430 SF New exterior walls/fenestration w/ add. Structure
- 23,500 SF Structural shear wall reinforcement
- 19,400 SF Re-roofing
- 9,550 SF New roof with structure
- 5,000 SF Exterior soffit
- 2,800 SF Exterior plaza/courtyard
- 72,000 SF Assignable Area (58,390 SF existing)
 - 10,000 SF Level 1 added ASF
 - 3,000 SF Level 6 added ASF

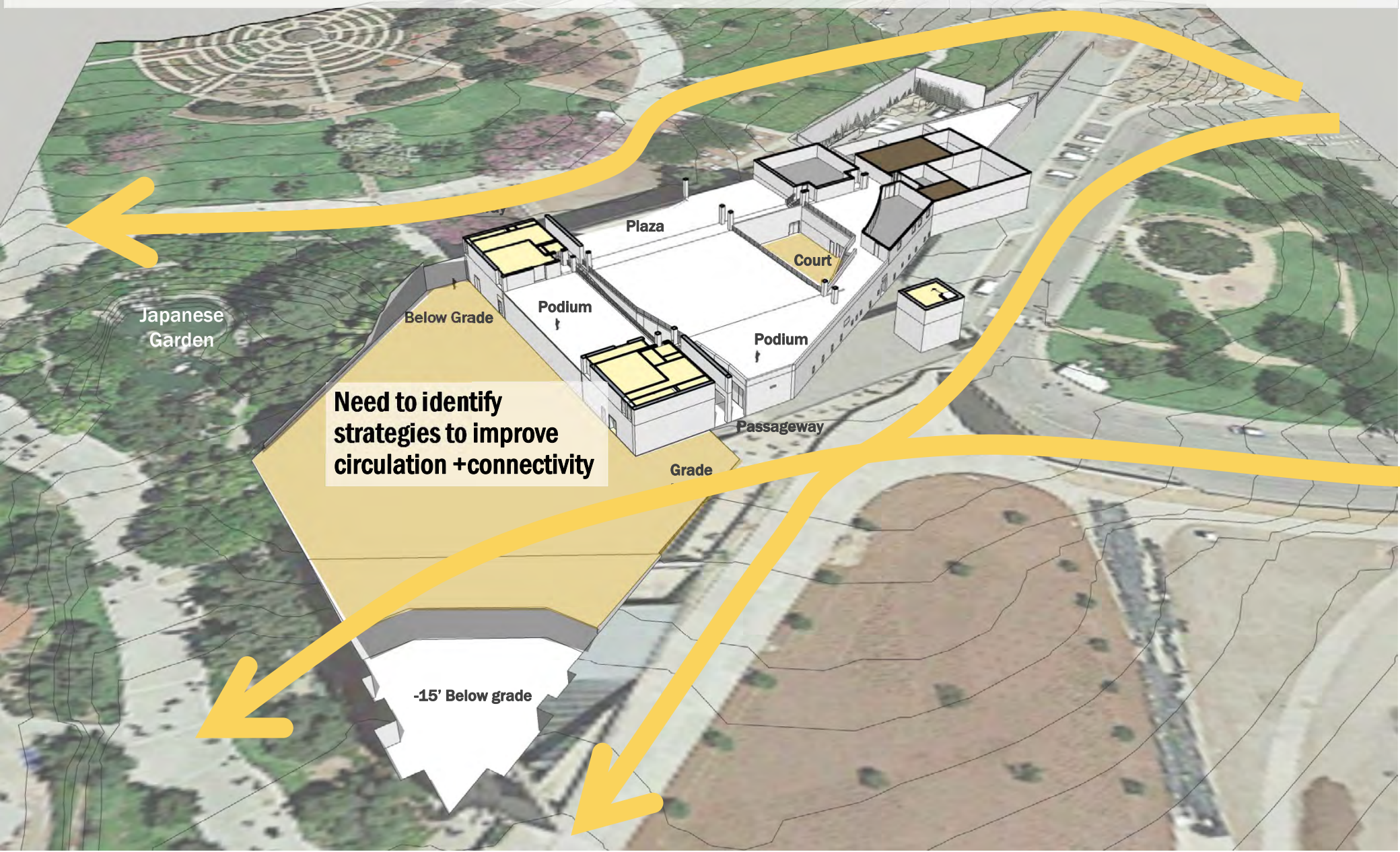


View from Southwest - level 2 3D floor plan



View from Northeast

BLDG 98-CLA STUDIES: AT GRADE





welcome to the
BRONCO STUDENT CENTER
A SERVICE OF ASSOCIATED STUDENTS, INC.



OPEN FORUM SET-UP

<http://polycentric.cpp.edu/2018/12/students-give-input-on-bsc-campus-seating-at-master-plan-open-forum/>



BSC PRIORITIES SURVEY

TOP 5



1. more/better + variety of study spaces (individual/group study rooms, quiet space informal study)

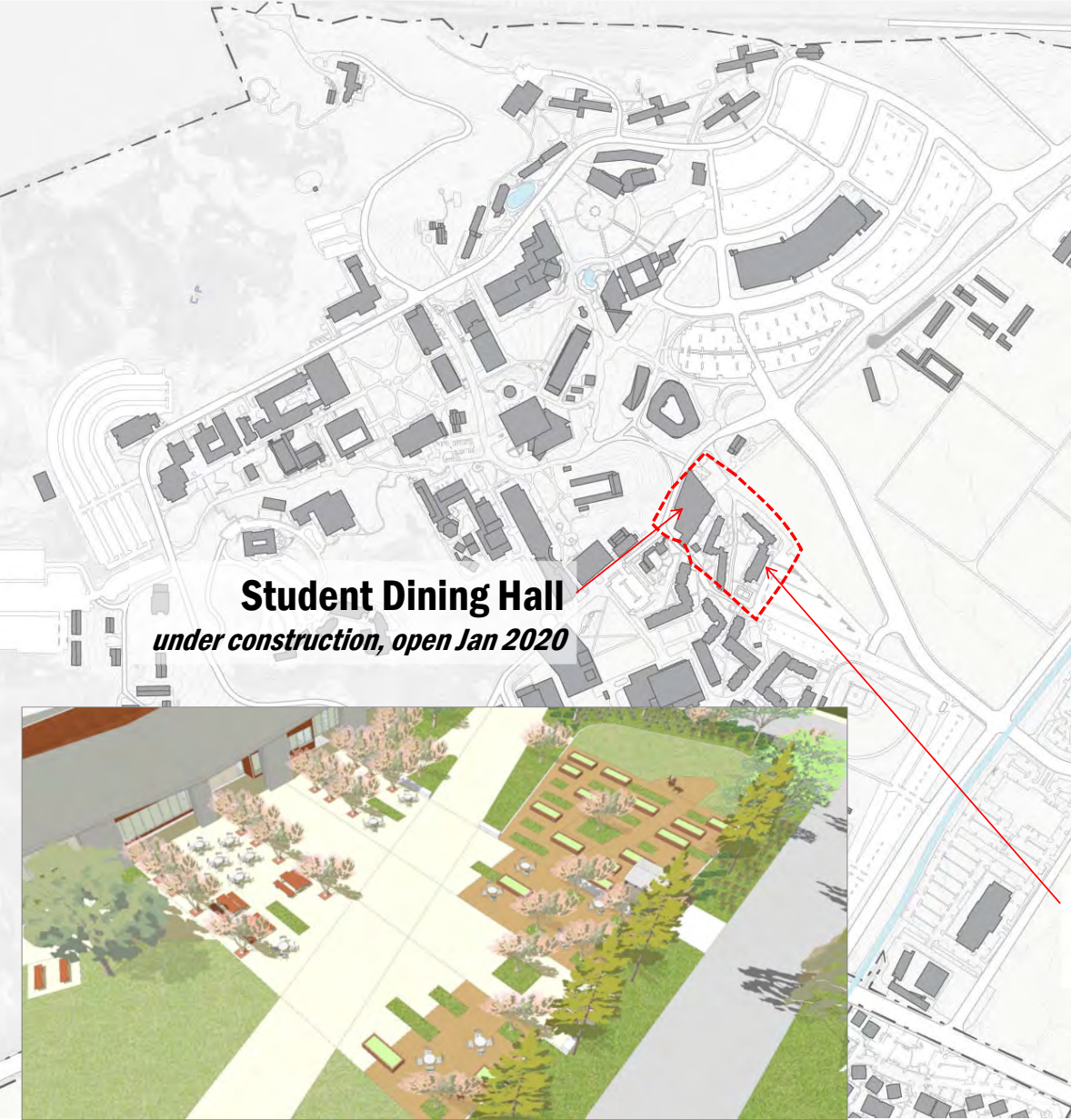
2. more / better food options + more seating/tables in the food court area

3. improve indoor/outdoor connectivity w/ more/better outdoor space for study, groups, activities

4. state-of-the-art facilities & technology supporting instruction & events/activities

5. expand types of activity & socializing offerings (gaming, bowling, arcade, movie theater, etc.)

STUDENT HOUSING REPLACEMENT - PHASE 1



Student Dining Hall
under construction, open Jan 2020



Student Housing Phase I
under construction, open Jan 2020

STUDENT HOUSING REPLACEMENT - PHASE 1

**Demolish Los Olivos
Dining Hall + Greys**
(- 500 beds)

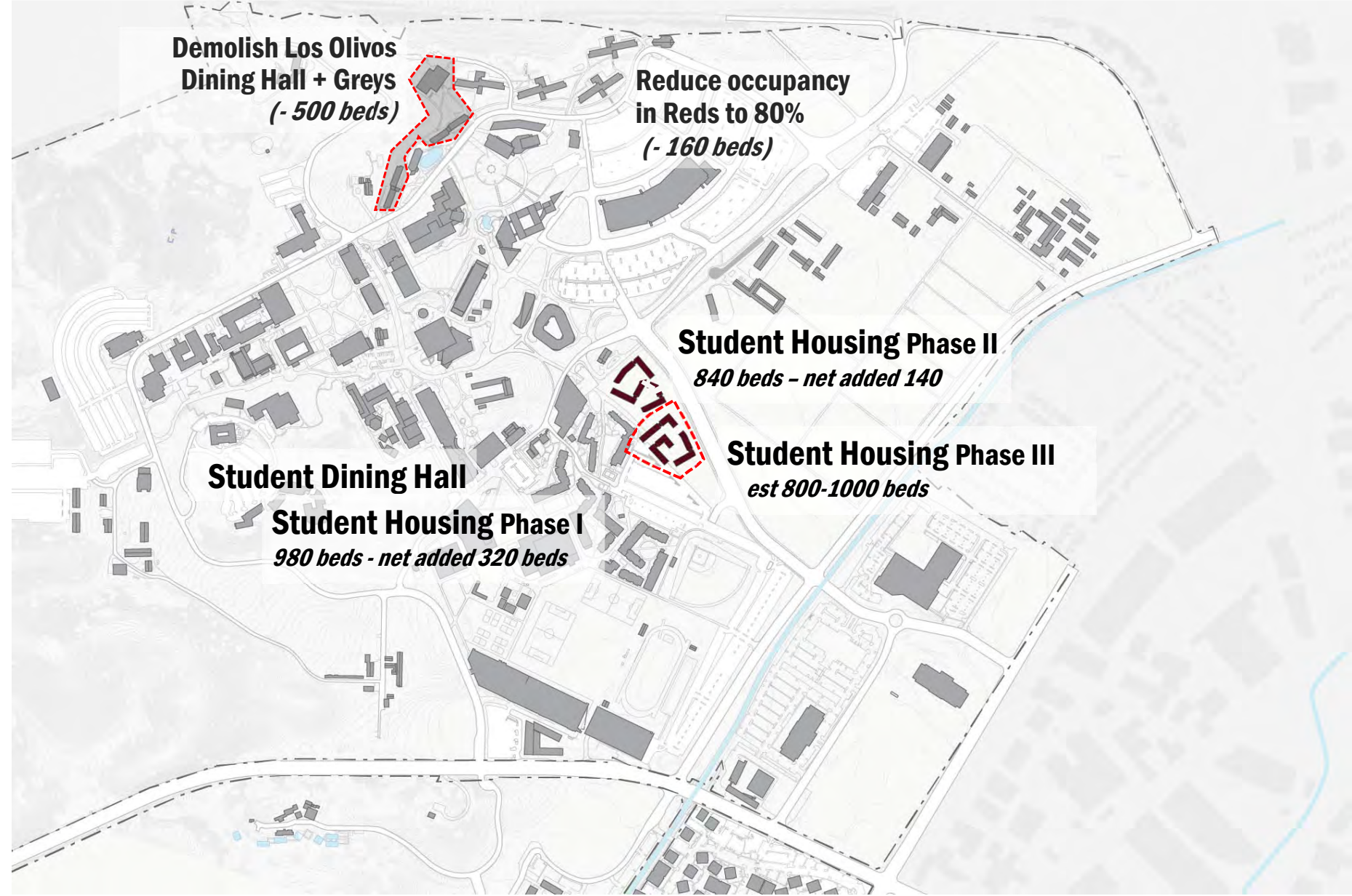
**Reduce occupancy
in Reds to 80%**
(- 160 beds)

Student Housing Phase II
840 beds - net added 140

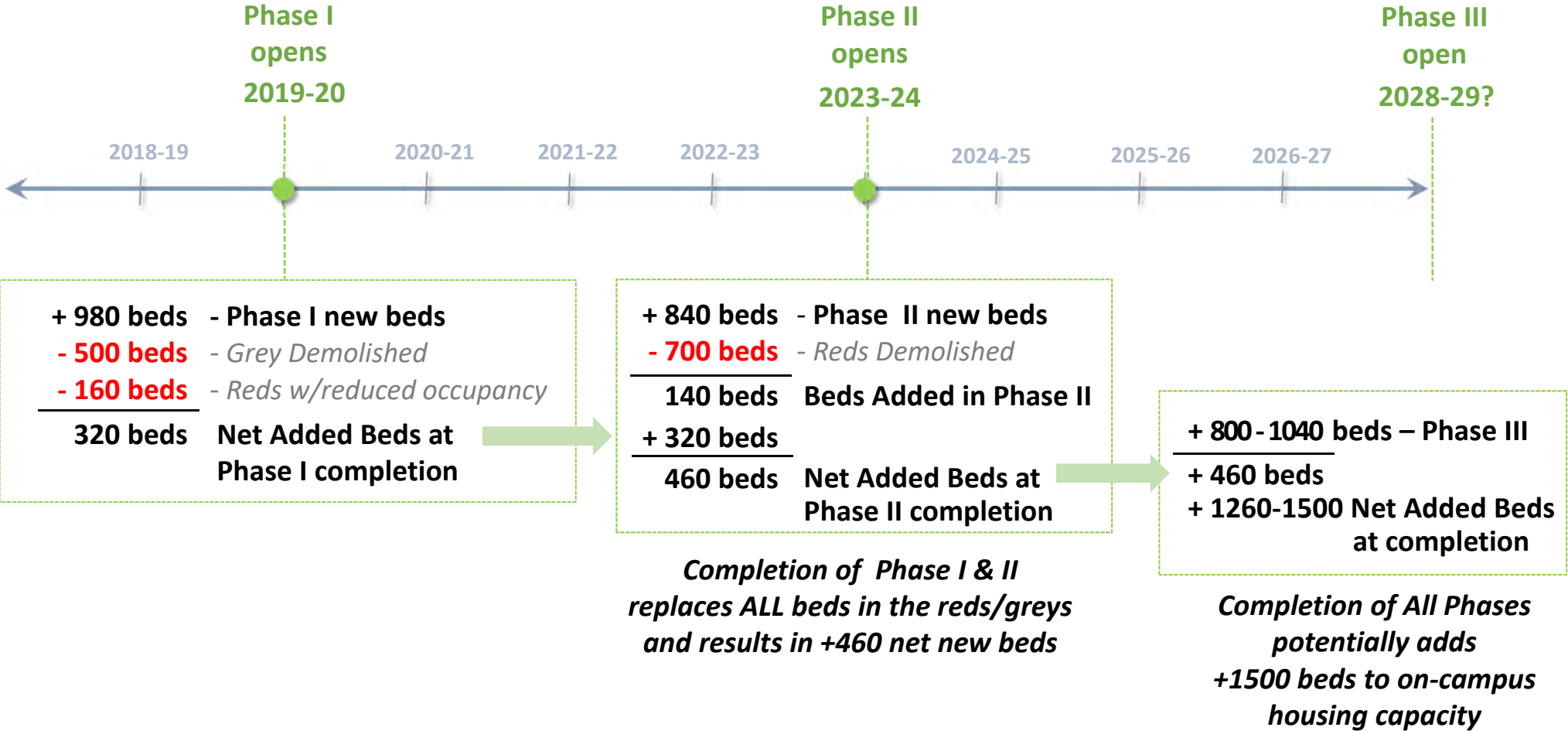
Student Dining Hall

Student Housing Phase I
980 beds - net added 320 beds

Student Housing Phase III
est 800-1000 beds



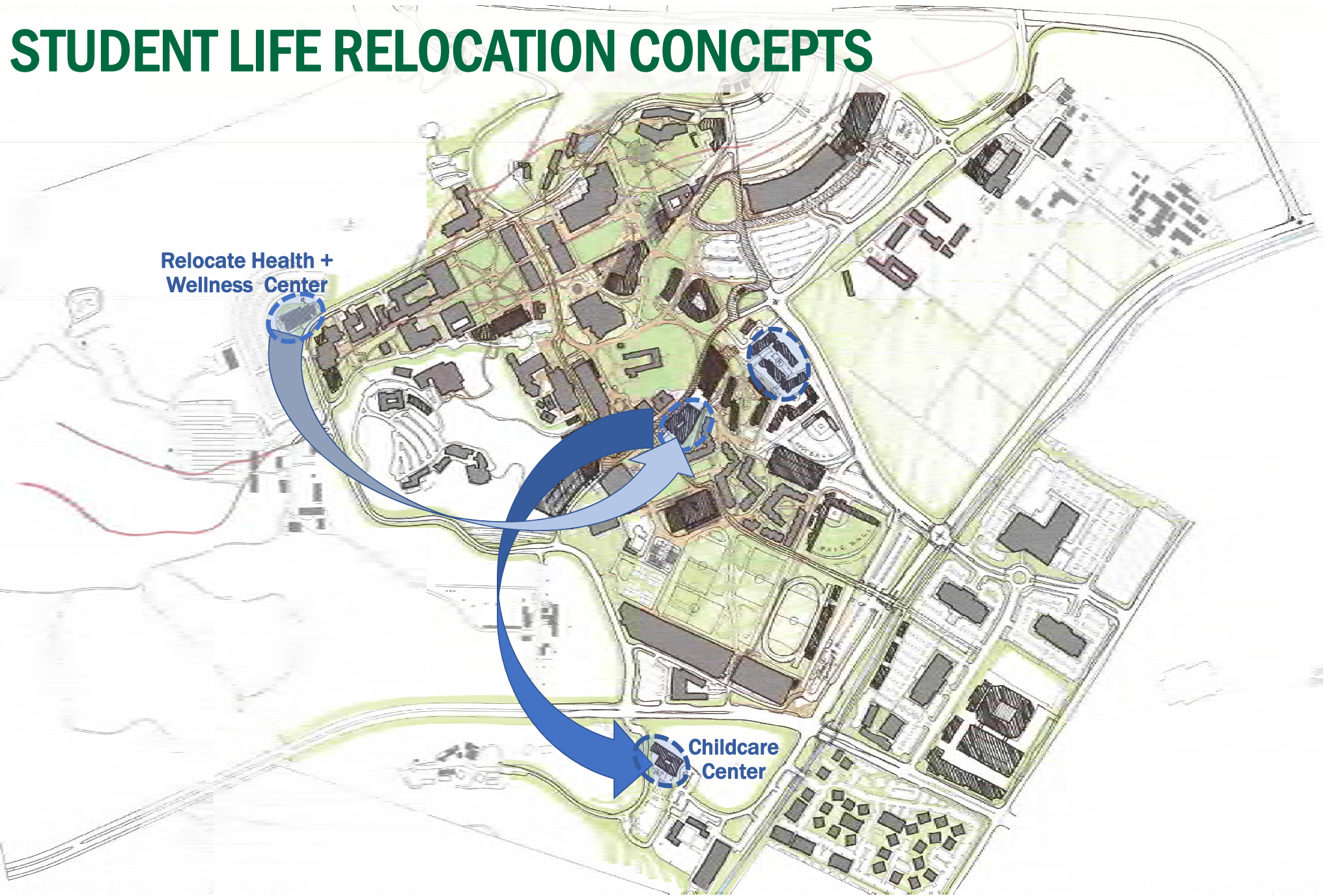
STUDENT HOUSING BED COUNTS



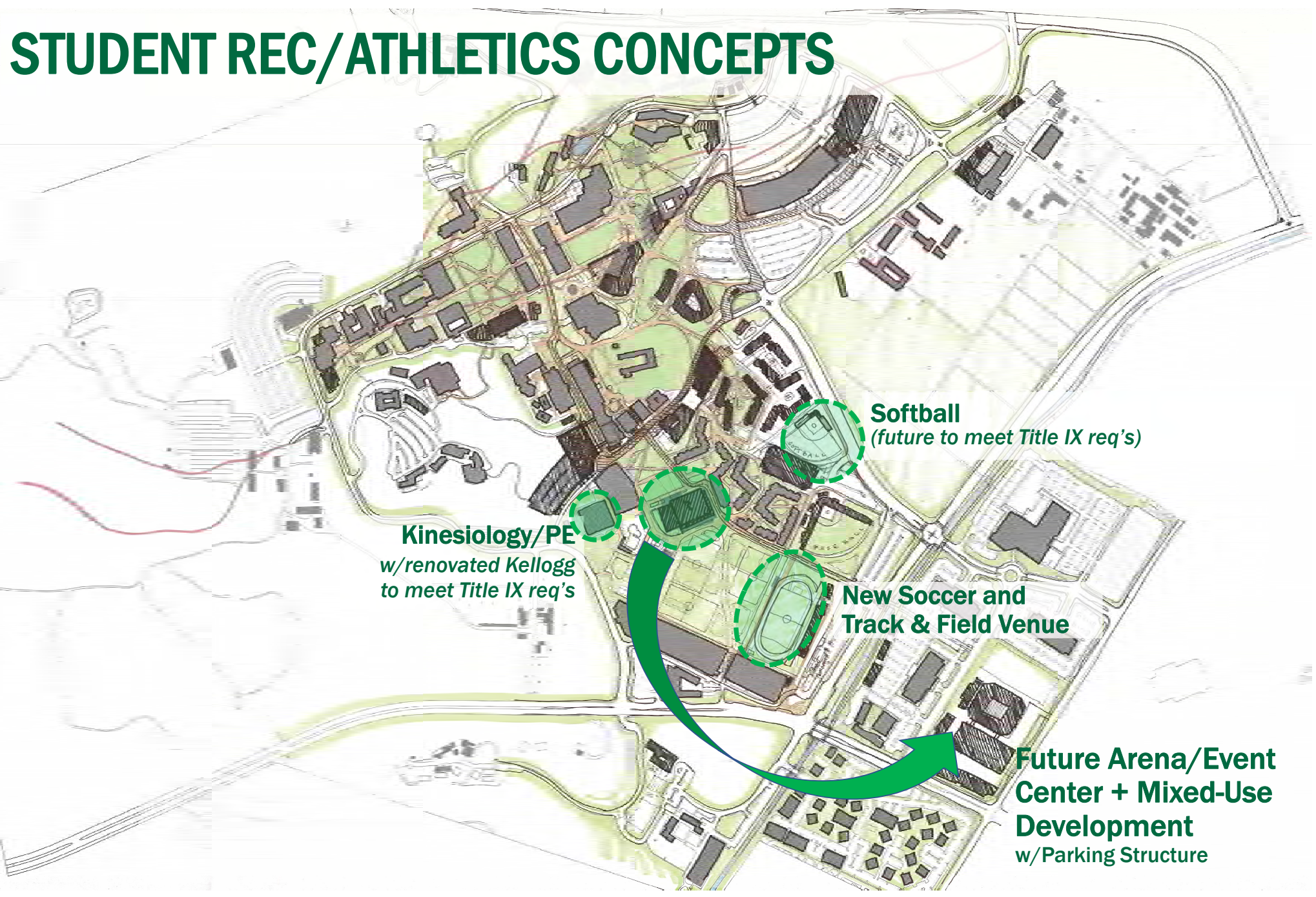
STUDENT LIFE RELOCATION CONCEPTS

Relocate Health +
Wellness Center

Childcare
Center



STUDENT REC/ATHLETICS CONCEPTS



Kinesiology/PE
*w/renovated Kellogg
to meet Title IX req's*

Softball
(future to meet Title IX req's)

**New Soccer and
Track & Field Venue**

**Future Arena/Event
Center + Mixed-Use
Development
w/Parking Structure**

Next Steps:

- **Workshop #6: Draft Plan + Phasing + Guidelines** **April**
 - **Focus Sessions:**
 - Academic Space-Resources incl library, study space (charrette session?)*
 - Sustainability – guidelines + recommendations*
- **Community Listening Session**
- **Campus Forums** **April**
- **Final Workshop on Draft Plan** **May**
- **Final Draft Plan CEQA – EIR** *August 2019-2020*
- **Final Master Plan to CSU** *adopted late 2020*

Q+A



Thank you!

