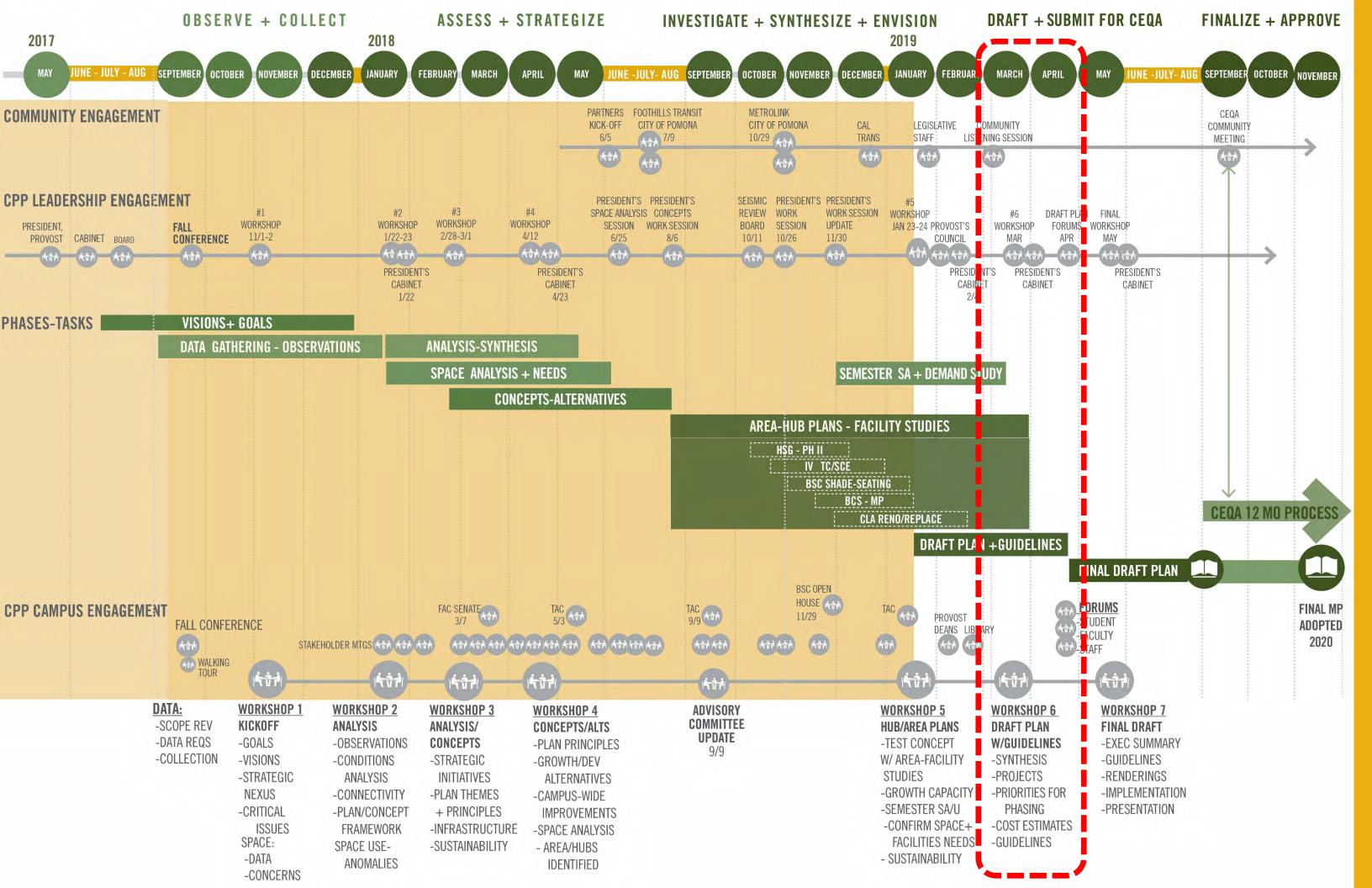


# University Leadership Council 22 March 2019



AGENDA
21 March 2019

- 1) Master planning schedule + process to date
- 2) Themes
- 3) Draft Master Plan (preliminary in progress)
  - a. campus wide improvement concepts
    - campus pedestrian environment
    - transportation, transit, parking
  - b. specific area + facility studies (for projects)
    - student housing, dining, health and wellness
    - Bronco Student Center (and surrounds)
    - Bldg 98 + academic hubs
- 4) Next Steps



### 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 **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.

Polytechnic Approach

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

Connectivity is Key

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

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.

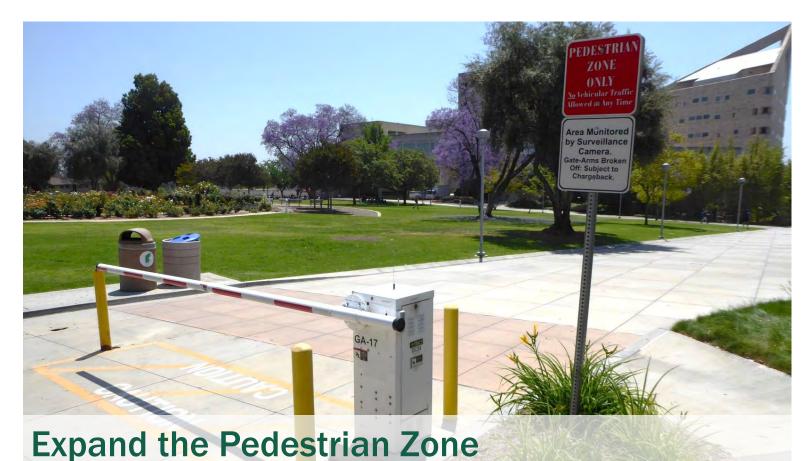
**Sustainable in All Aspects** 

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

# Campus Wide Improvements

- Pedestrian Environment
- Pedway-Bikeway, Bike Paths
- Transit
- Campus Entry + Traffic
- Parking

# **ELEMENTS OF A PEDESTRIAN ENVIRONMENT**









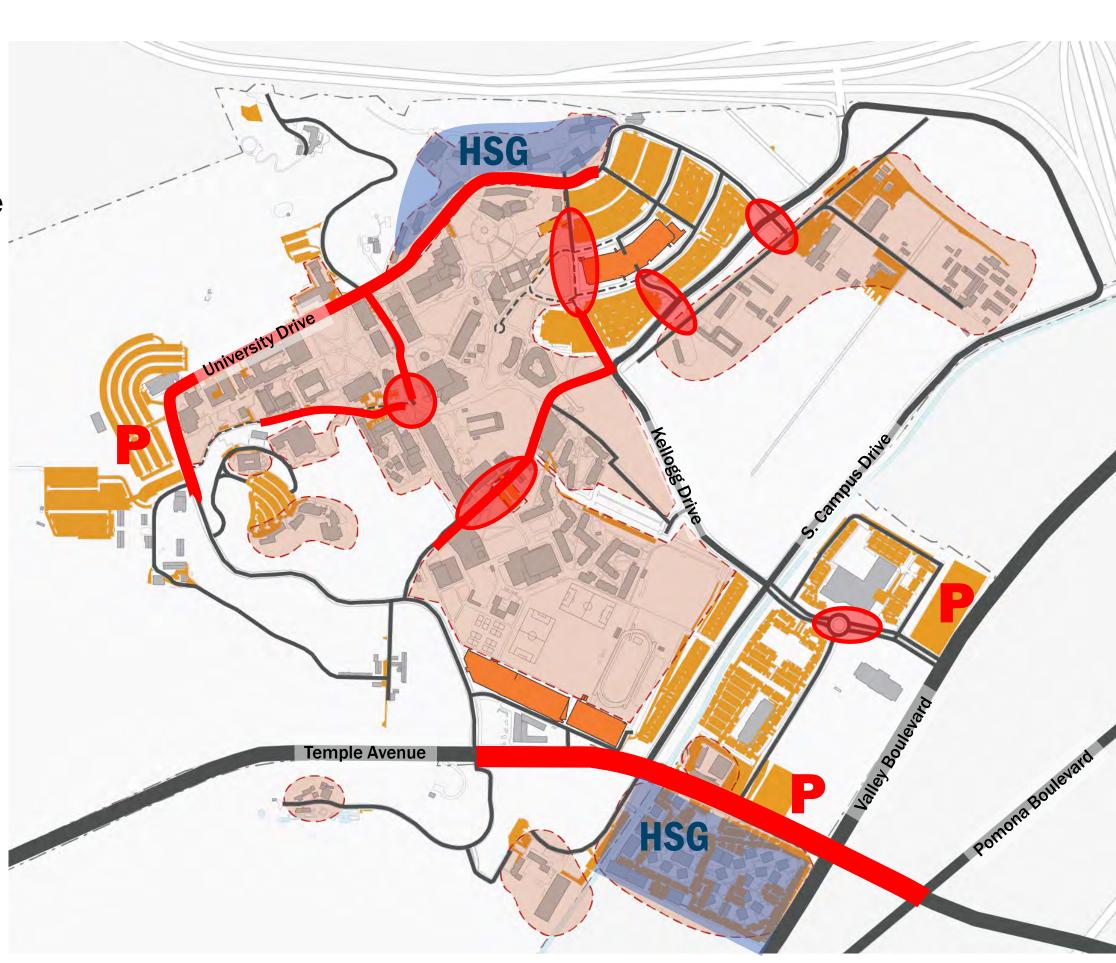
Improve Multi-modal Connectivity



Create Gathering Spaces with Seating, Shade

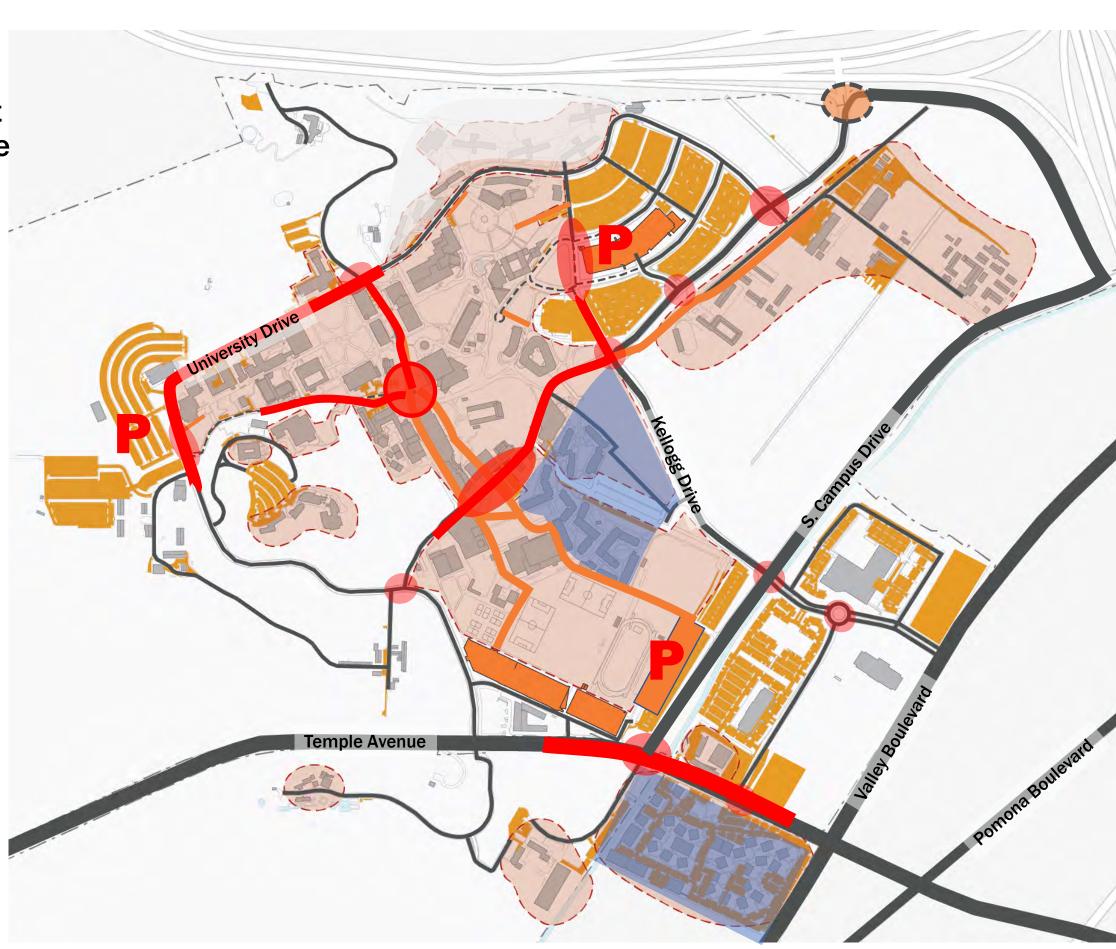
### PEDESTRIAN-VEHICLE CONFLICT AREAS

- Connectivity + safety from student housing, parking or academic functions outside the campus pedestrian zone
- Major streets through campus
  - Kellogg Drive
  - Temple / S Campus Dr
  - University Dr
- High traffic intersections (esp campus entrance areas)
- Internal campus streets (even with access controls) including service/docks



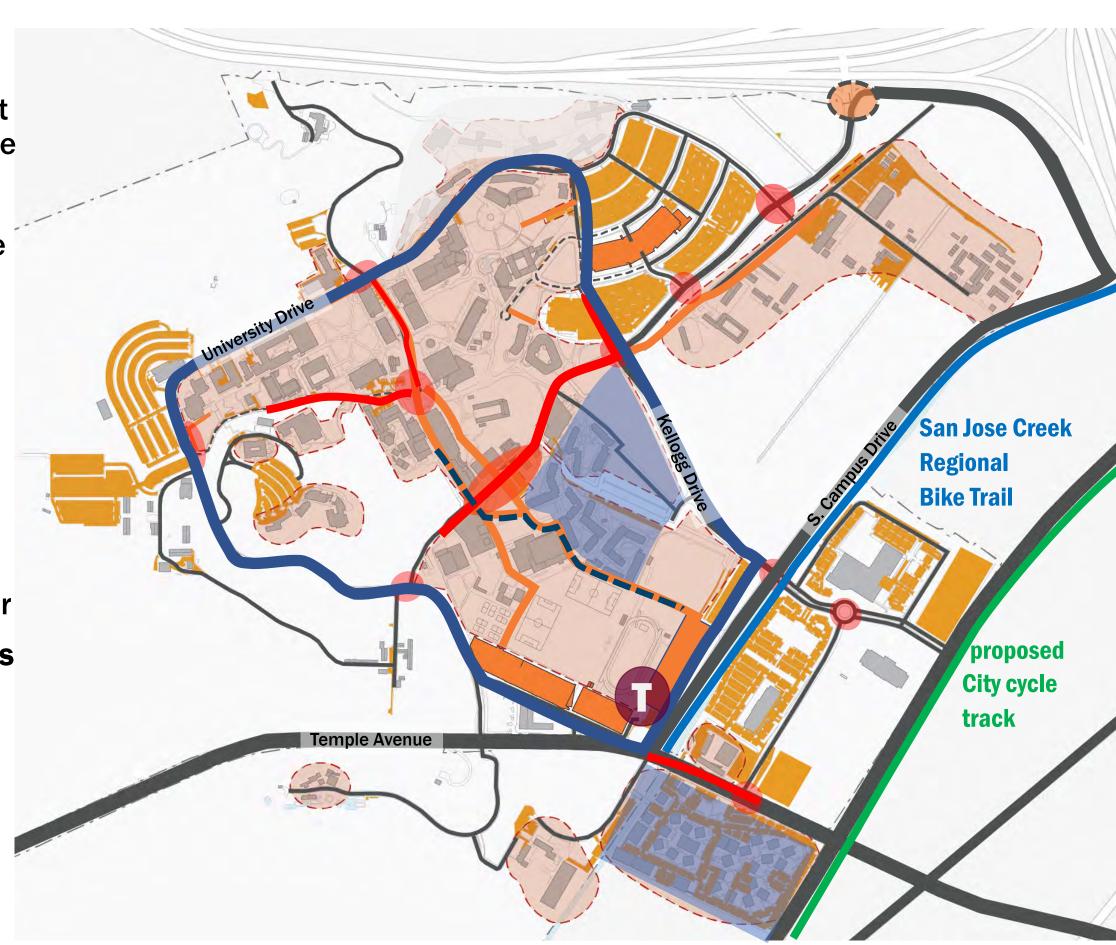
### PEDESTRIAN-VEHICLE CONFLICT AREAS

- Keep or relocate major student uses within the pedestrian zone
- Provide safer connectivity
  - Send thru traffic around the campus
  - Put Kellogg Dr 'road diet' with pedestrian safety improvements



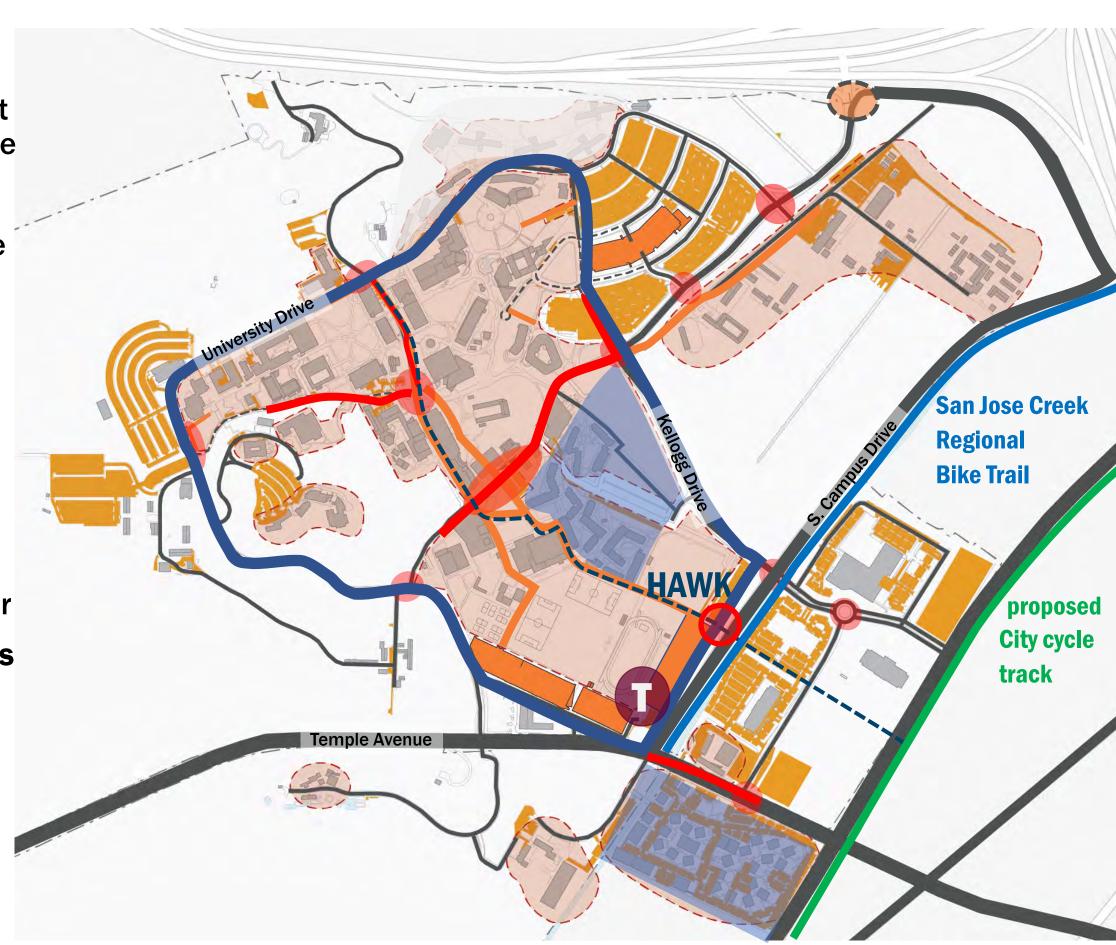


- Keep or relocate major student uses within the pedestrian zone
- Provide safer connectivity
  - Send thru traffic around the campus + Kellogg Dr 'road diet'
  - Circulating campus shuttle connects academic core to parking, transit center
  - Dedicated transit lane on University Dr
  - Connect to all shuttles,
     FTA busses at Transit Center
  - Extend + connect bike paths





- Keep or relocate major student uses within the pedestrian zone
- Provide safer connectivity
  - Send thru traffic around the campus + Kellogg Dr 'road diet'
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     FTA busses at Transit Center
  - Extend + connect bike paths





High-intensity Activated crosswalk (HAWK pedestrian beacon)

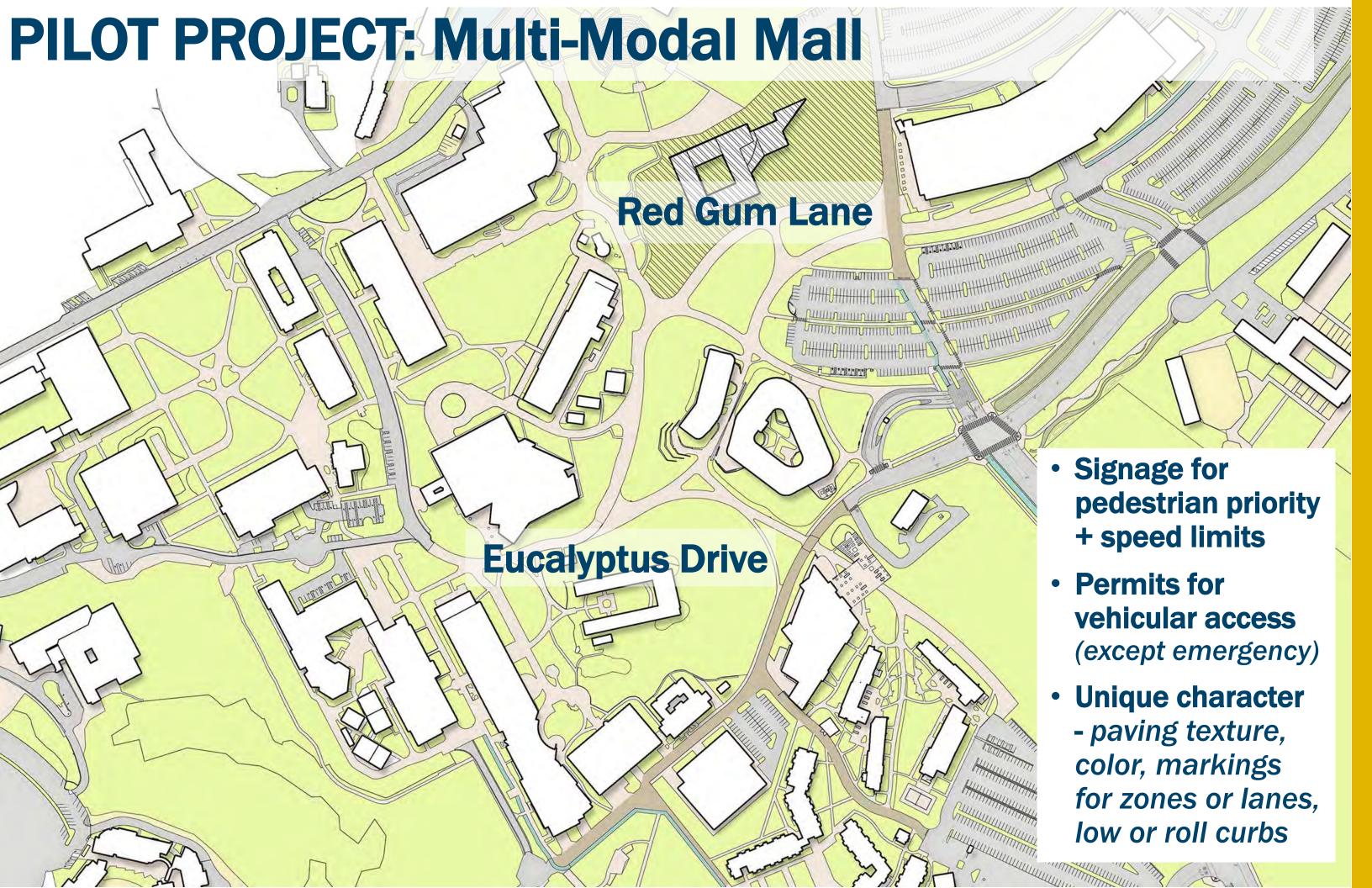
- Keep or relocate major student uses within the pedestrian zone
- Provide safer connectivity
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  - Circulating campus shuttle connects academic core to parking, transit center
  - Dedicated transit lane on University Dr
  - Connect to all shuttles,
     FTA busses at Transit Center
  - Extend + connect bike paths
- Transform internal campus streets into pedestrian oriented multi-modal malls







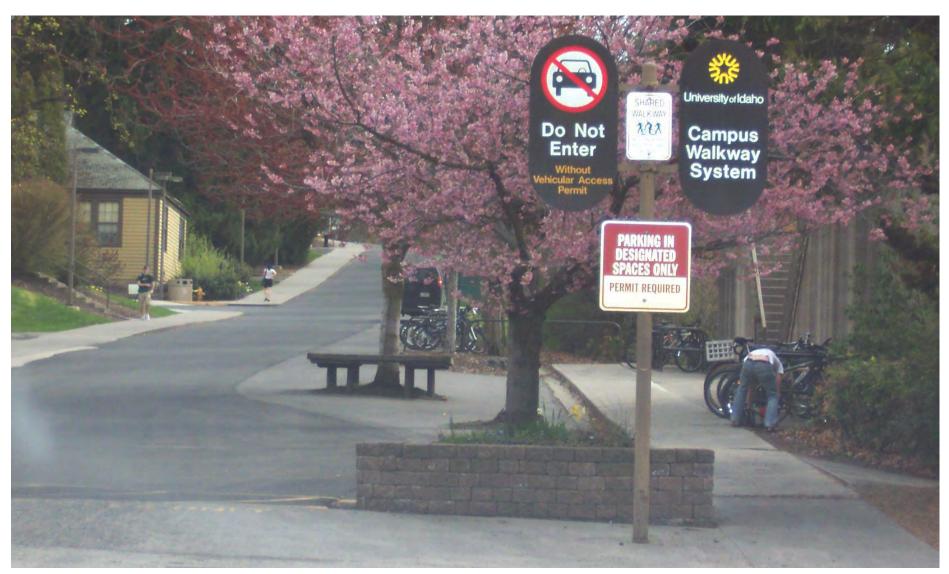
Multi-modal Mall (Washington State University, WA)



- Keep or relocate major student uses within the pedestrian zone
- Provide safer connectivity
  - Send thru traffic around the campus + Kellogg Dr 'road diet'
  - Circulating campus shuttle connects academic core to parking, transit center
  - Dedicated transit lane on University Dr
  - Connect to all shuttles,
     FTA busses at Transit Center
  - Extend + connect bike paths
- Transform internal campus streets into pedestrian oriented multi-modal malls
- Create standards for safe malls, ped-bike paths, and intersections-crossings

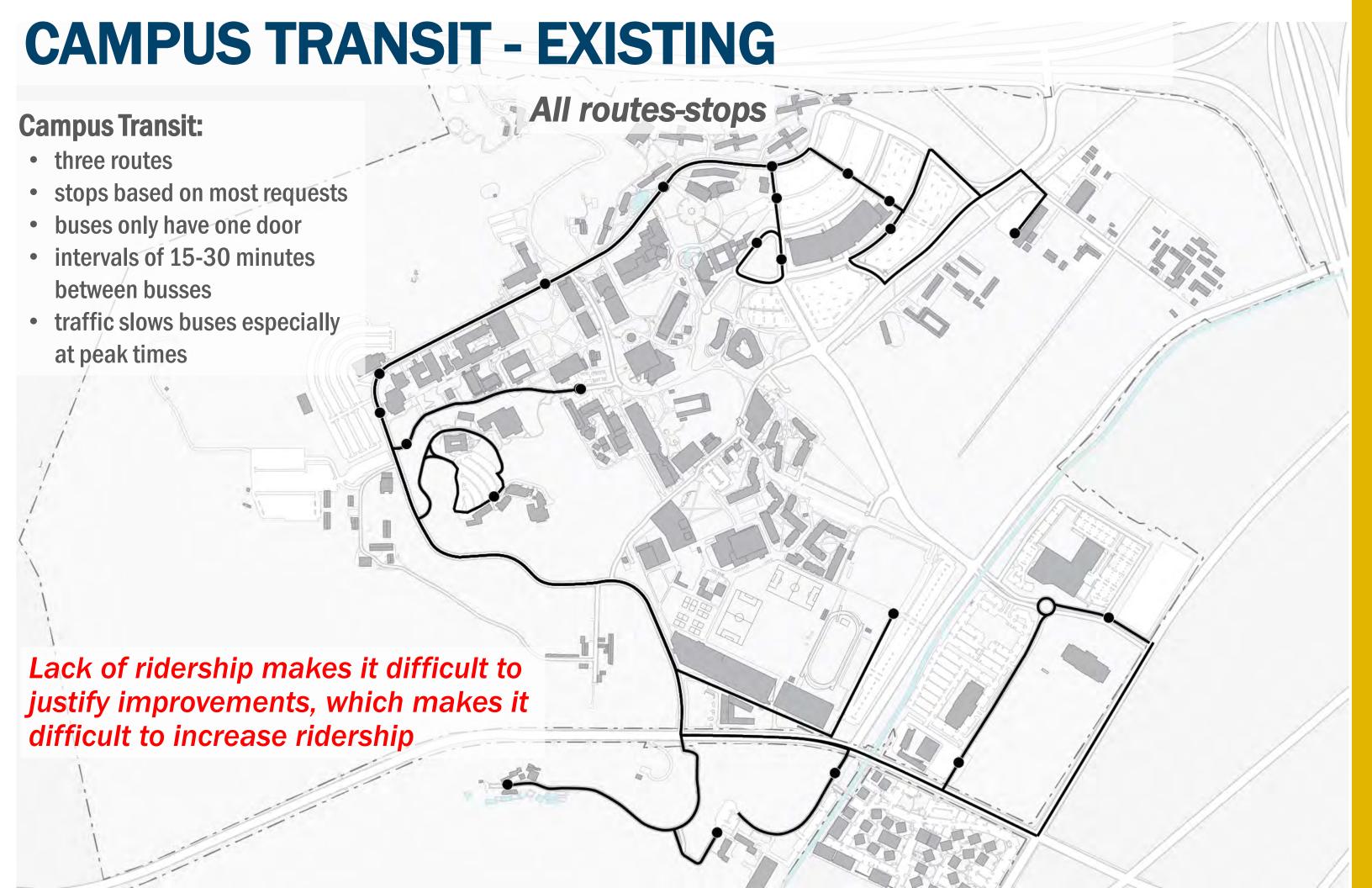


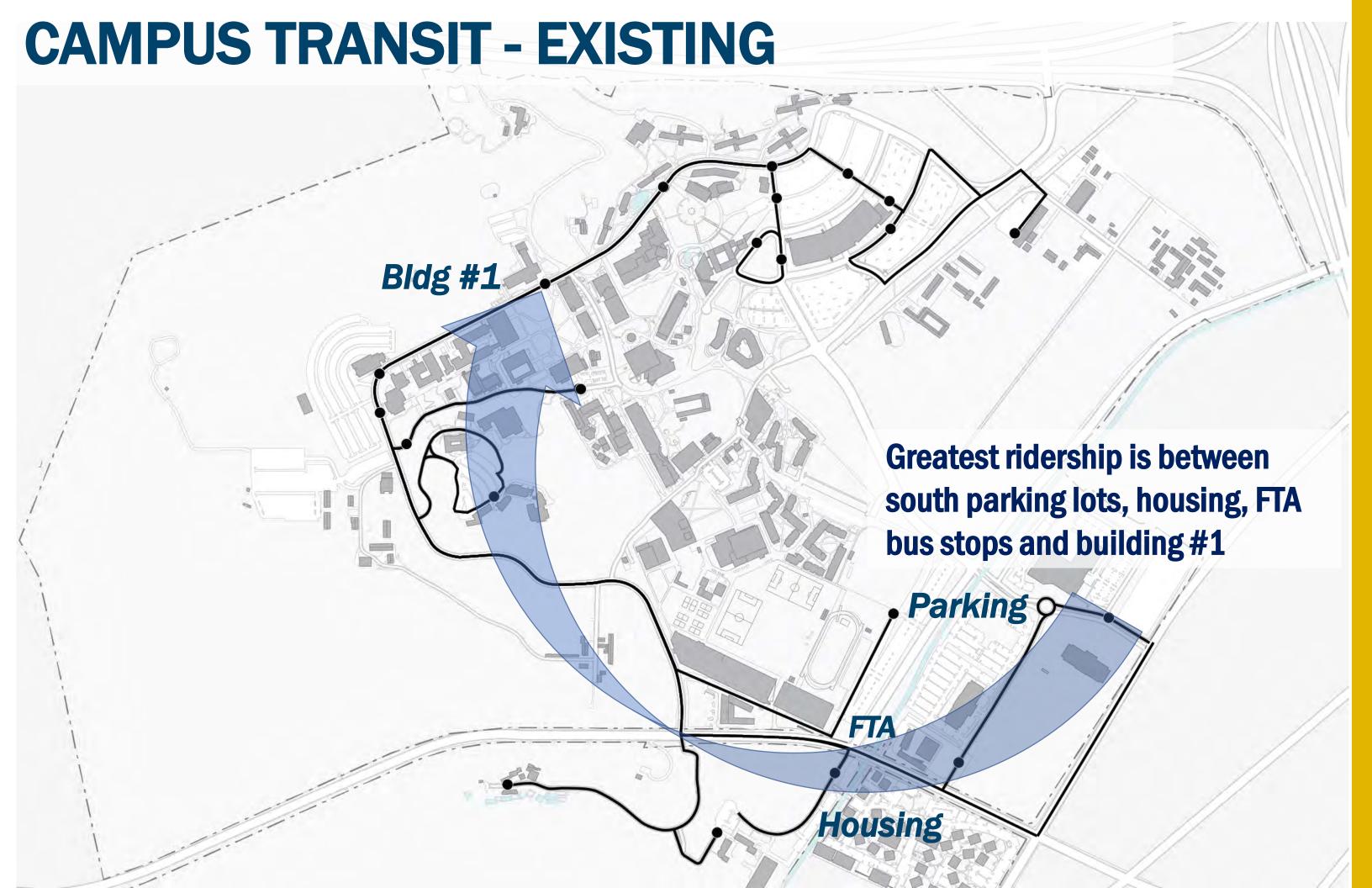
### PATH STANDARDS

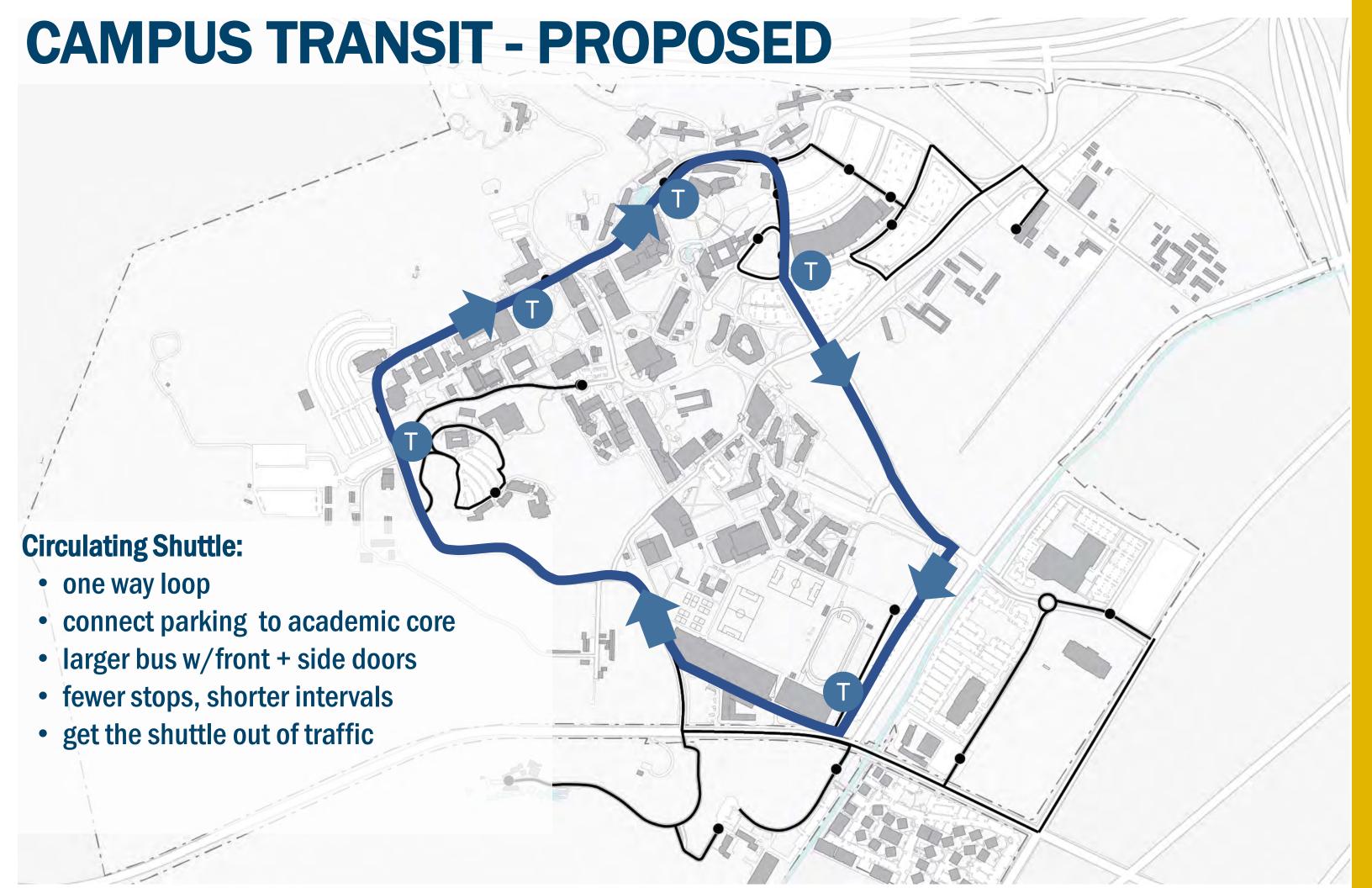




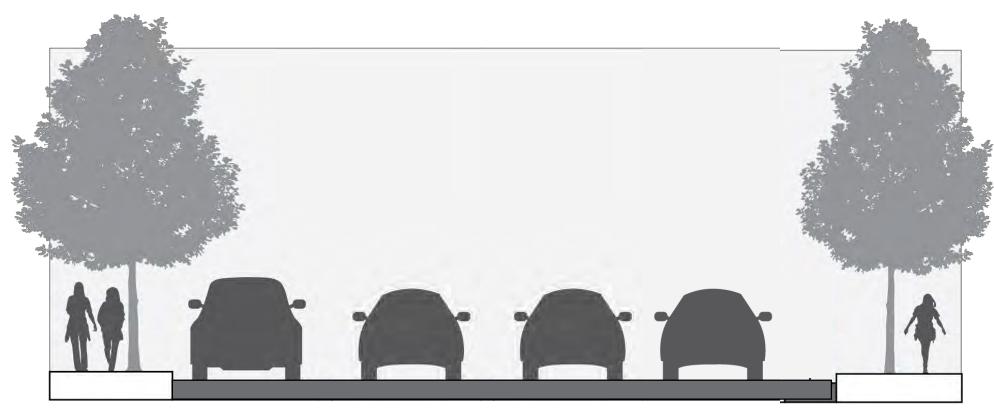








### **UNIVERSITY DRIVE TRANSFORMATION**



Existing:

limited sidewalks

parking

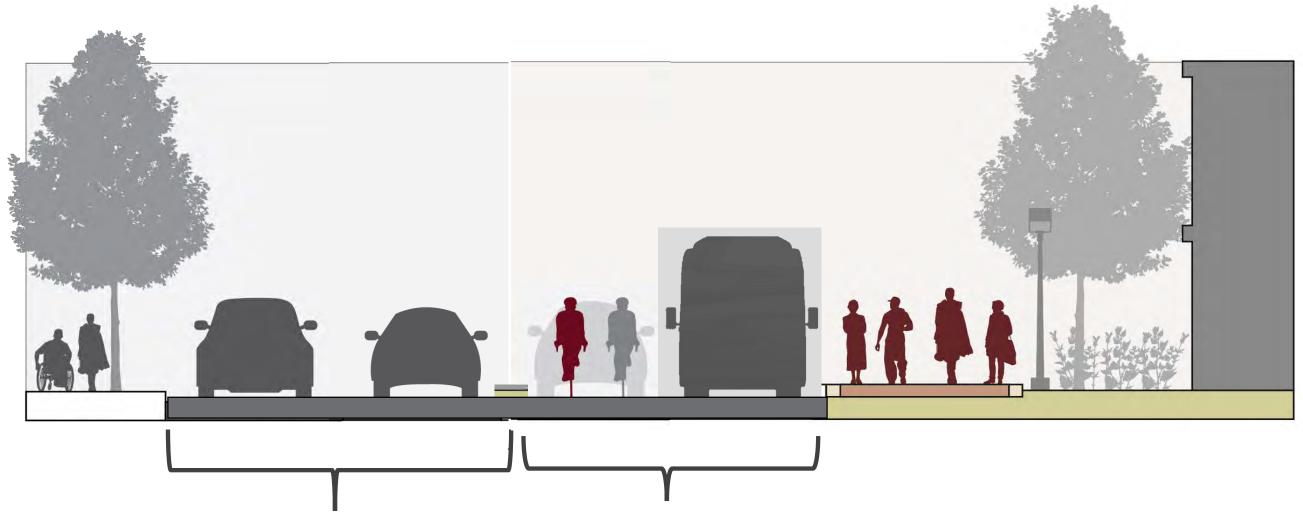
vehicle travel- 2 way

parking

sidewalks (width varies)

### **Street Sections**

### **UNIVERSITY DRIVE TRANSFORMATION**



Proposed:

travel lanes

(eliminate on-street parking except pull-outs for ADA/Med)

1 way transit Share w/bikes widen sidewalks on south side

### **Street Sections**

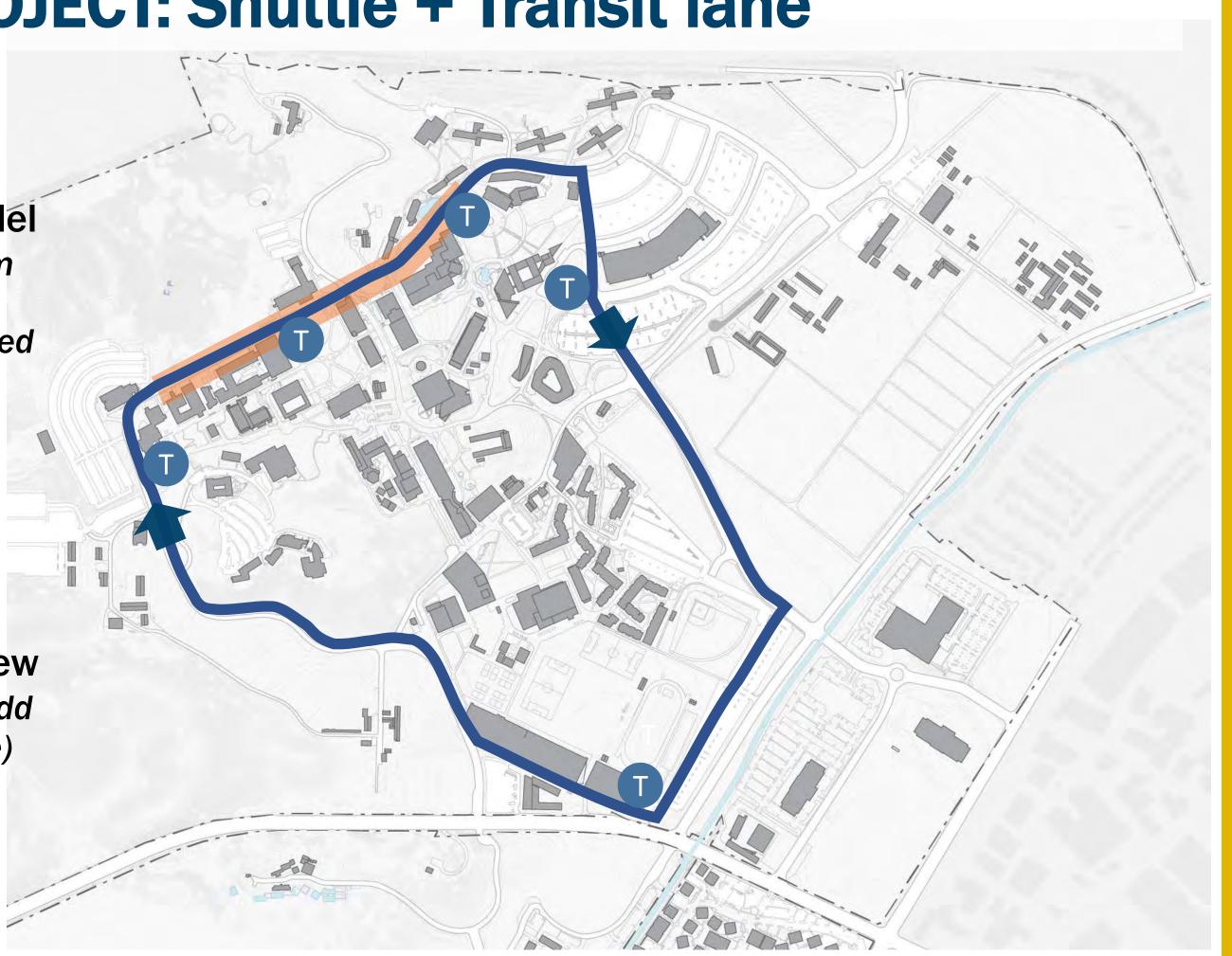
# PILOT PROJECT: Shuttle + Transit lane

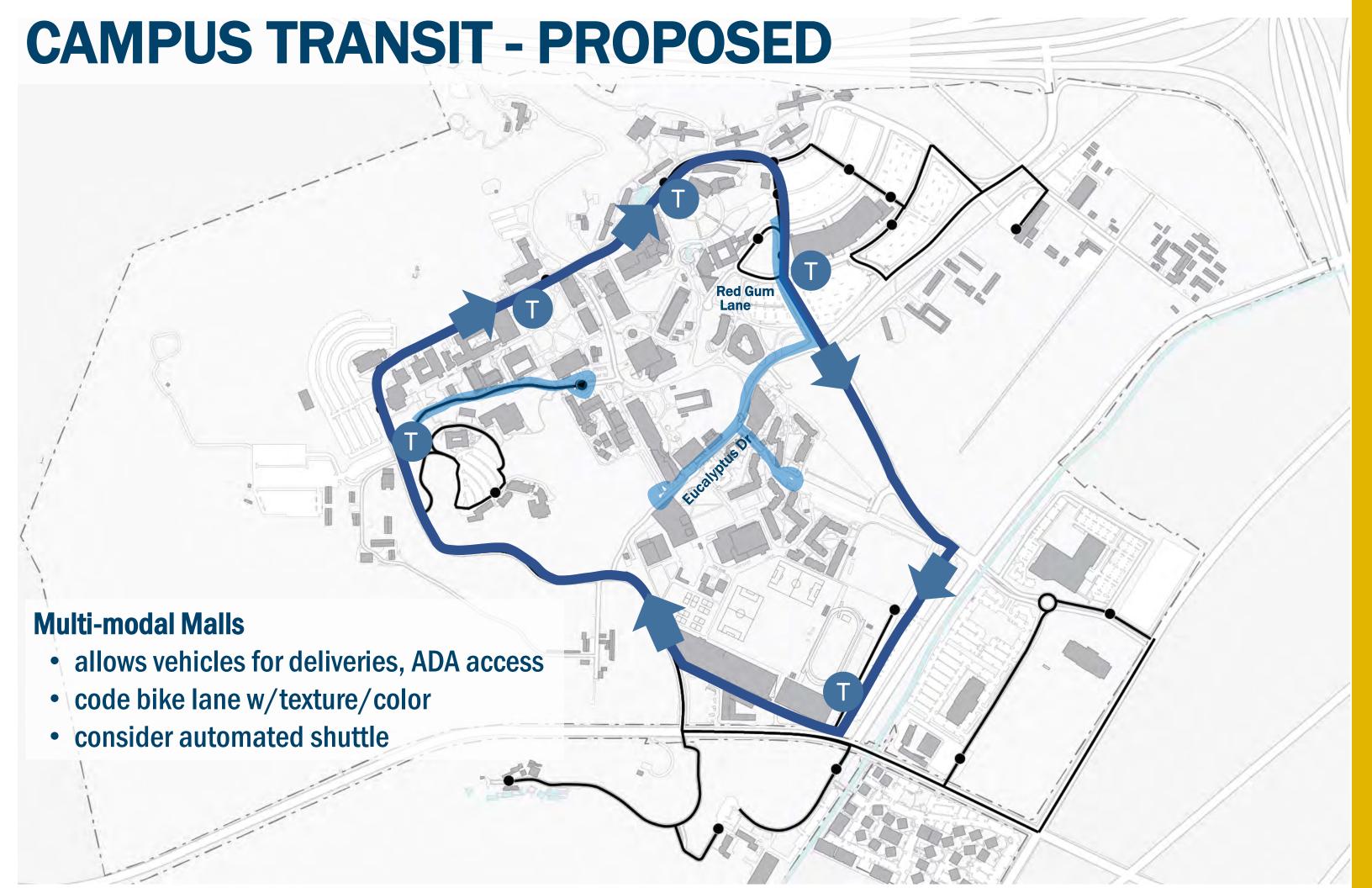
 Remove parallel parking (confirm sufficient pull-in spots for ADA, Med permits)

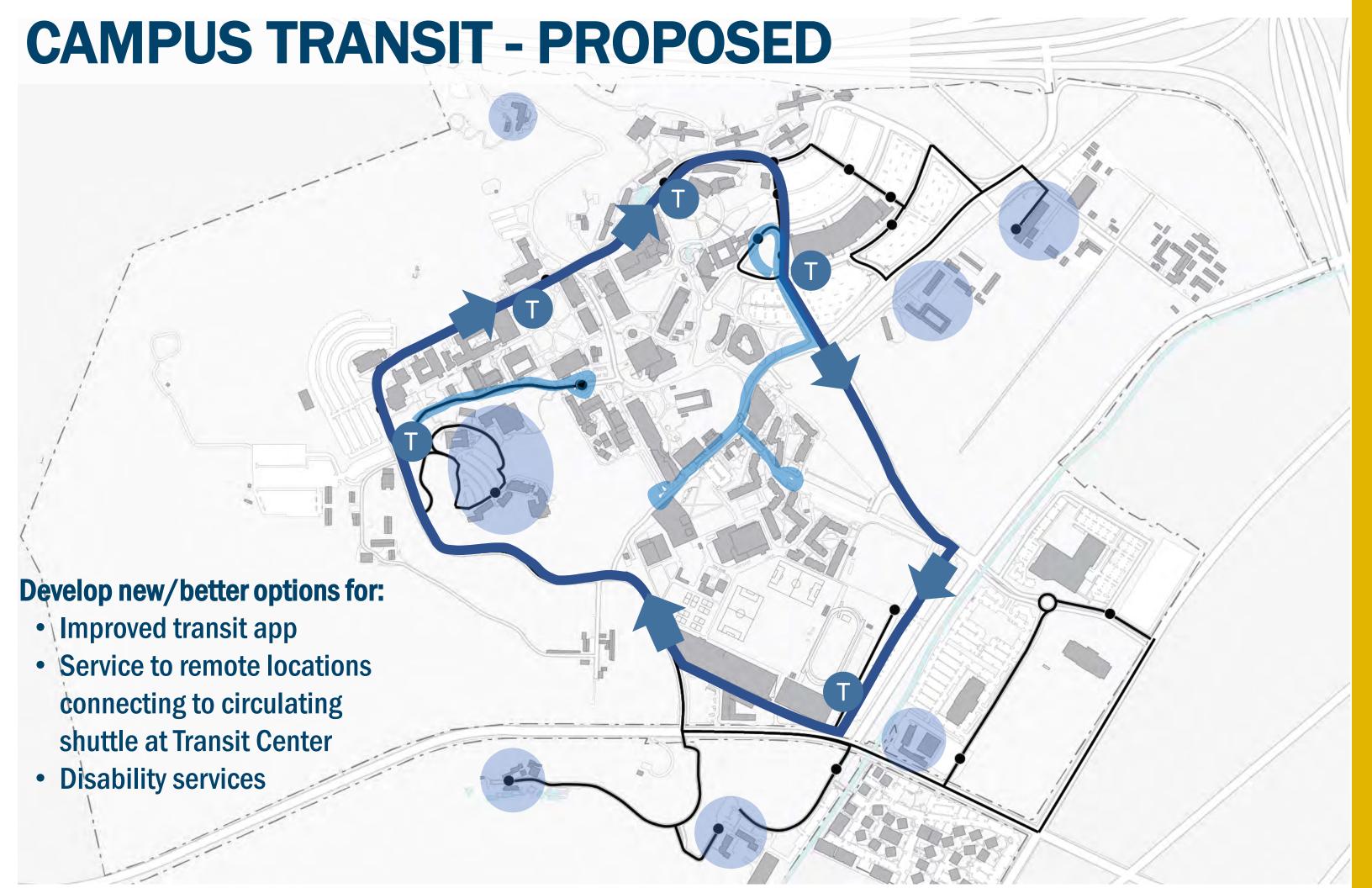
 Restripe lanes (add matchstick barriers at lane shift start-end points)

 Add signs at new stops (ideally add benches + shade)

Improve CPP Transit app



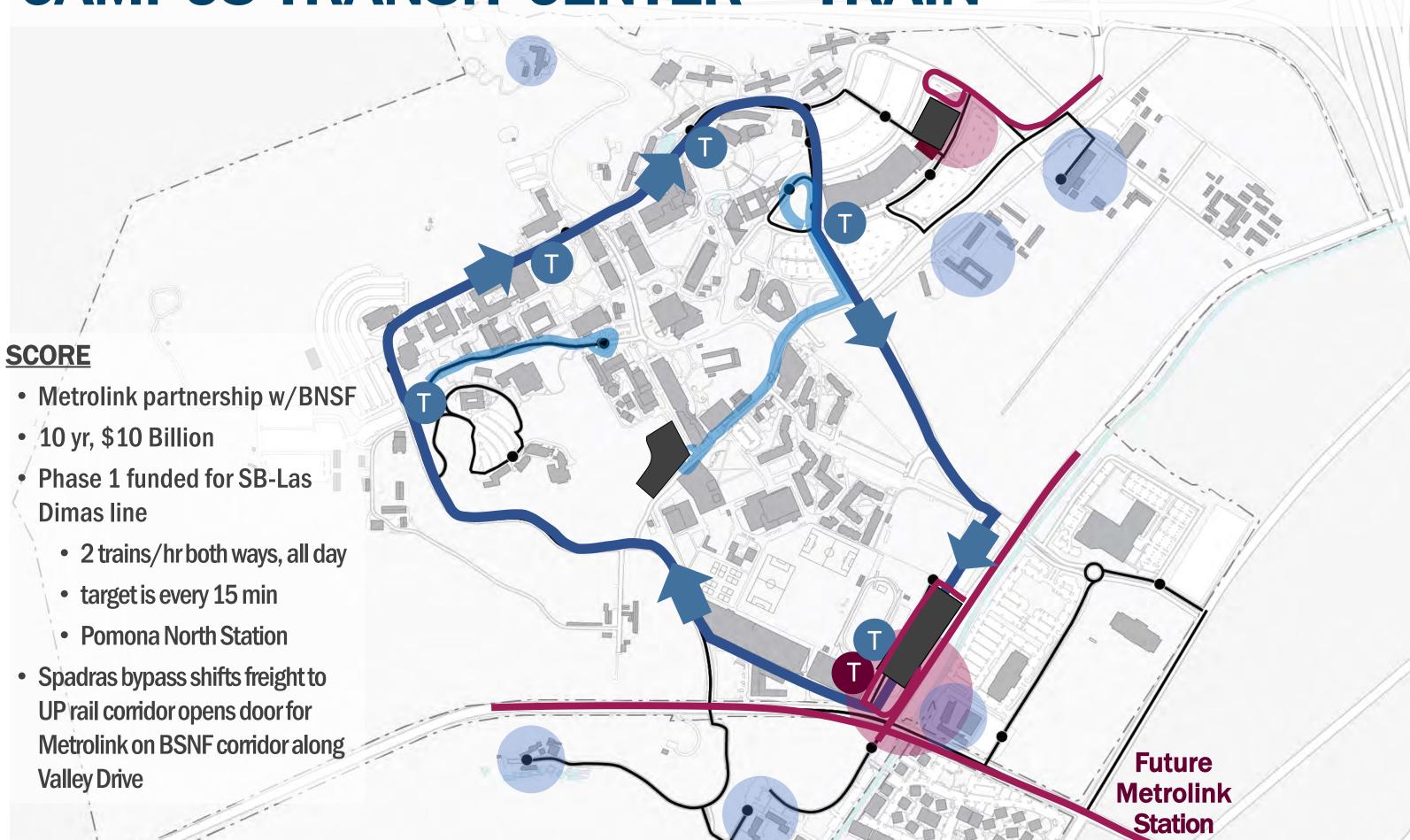




### **CAMPUS TRANSIT CENTER** Parking Structure #1 Expansion + Future Stop for FTA Silver Streak **Transit Center: Connected to parking On-campus shuttles** Local/regional FTA bus stops **Metrolink shuttles** Auto + bike share hub **Uber/Lyft circle** Parking Structure #3 + Campus Transit Center w/Connections to FTA busses + **Should include: Metrolink shuttles** Safe, sheltered waiting **FTA Routes Real-time tracking Transit information**

**Purchase passes** 

## **CAMPUS TRANSIT CENTER + TRAIN**

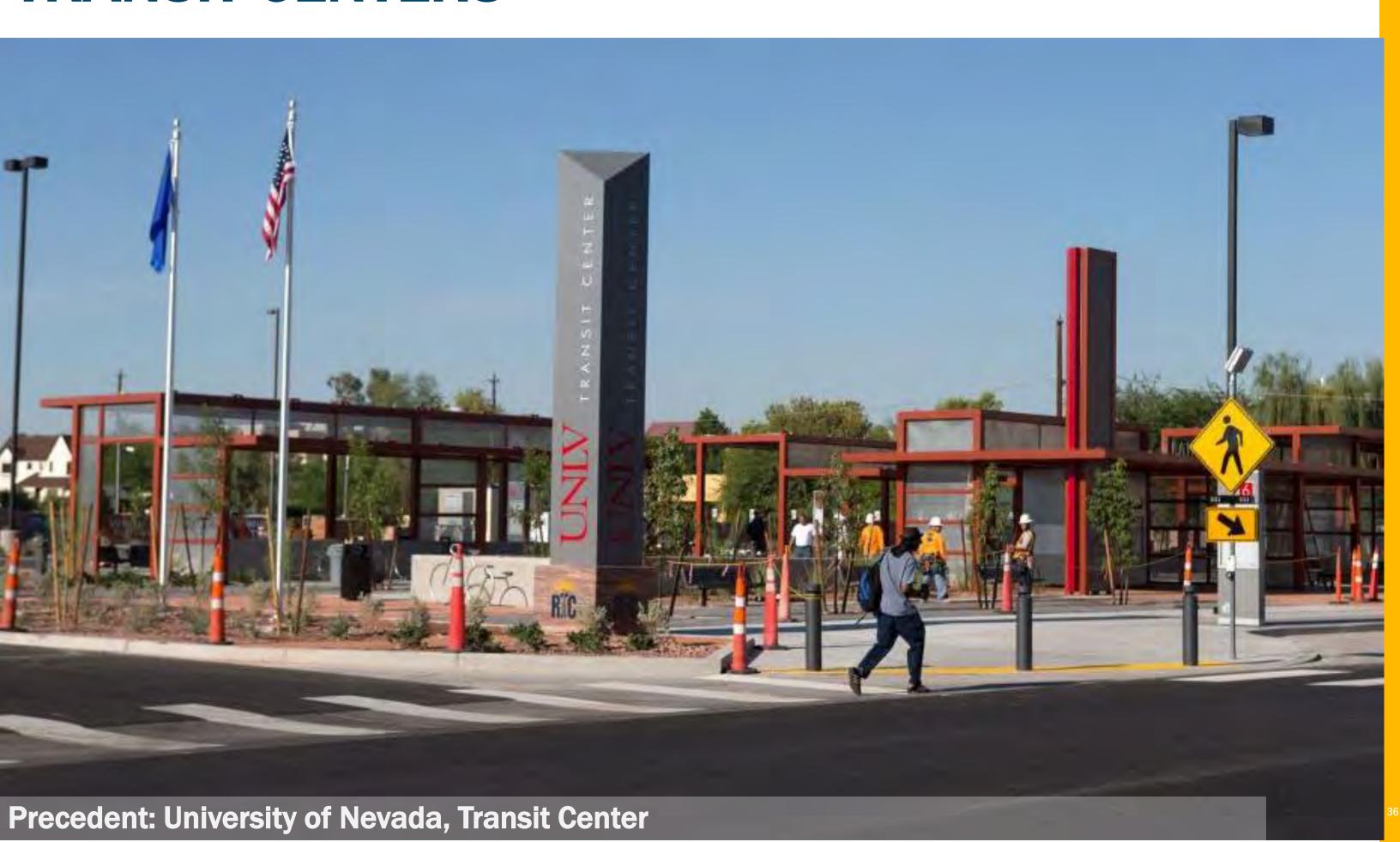


# PARKING STRUCTURES + TRANSIT CENTER



Precedent: rendered view of mixed-use parking structure + transit center

# TRANSIT CENTERS



# **BSC STUDENT FORUM ON SEATING + SHADE**







### SHADE PREFERENCES

- shades a larger area
- solar power
- shapes a space
- plaza + landscape
- flexible for events, groups or individuals









### **SEATING PREFERENCES**



- lawn (but not wet).
- shaded
- choices, versatile, flexible
- benches over chairs
- landscape + hardscape
- work surface
- solar powered outlets









## PILOT PROJECT: Seating + Shade

- Standing height
- Movable stools
- Solar panel w/charging outlets + battery storage
- Options for lighting, electronic screens, hard-wired power outlets



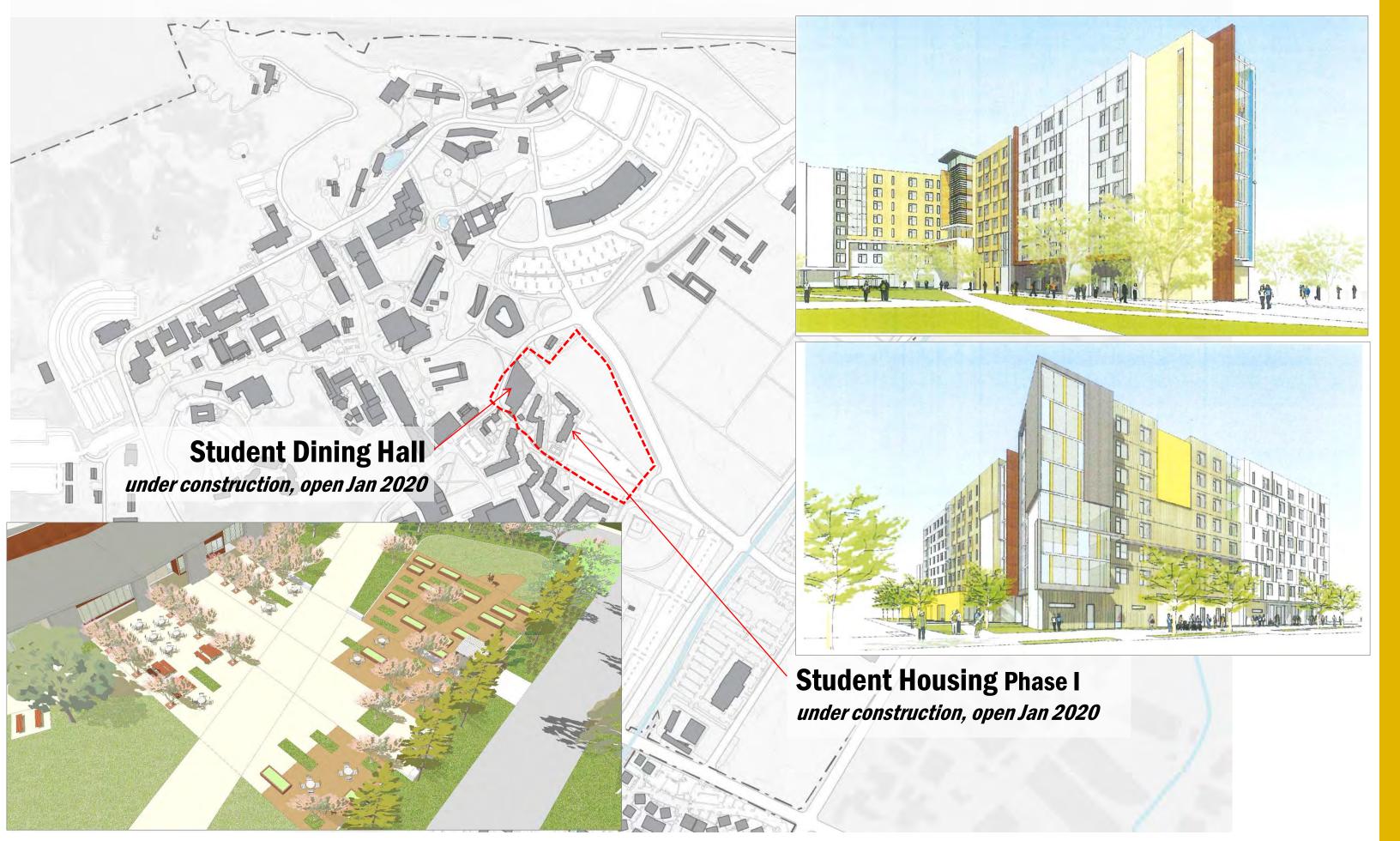
# PILOT PROJECT: Seating + Shade



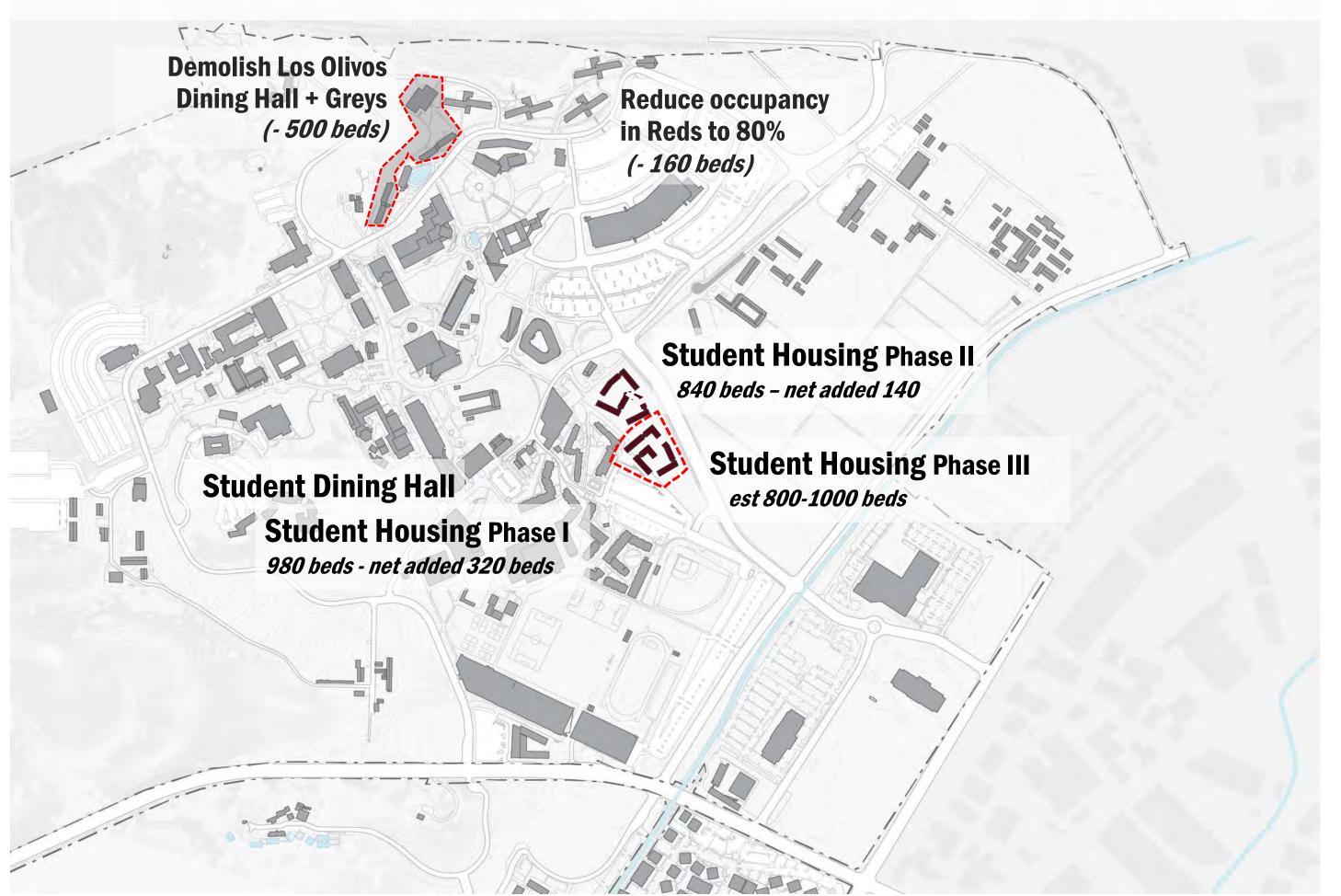
## **Area-Facilities Studies**

• Student Life – BSC, Housing, Dining, Health & Wellness, Athletics/Rec

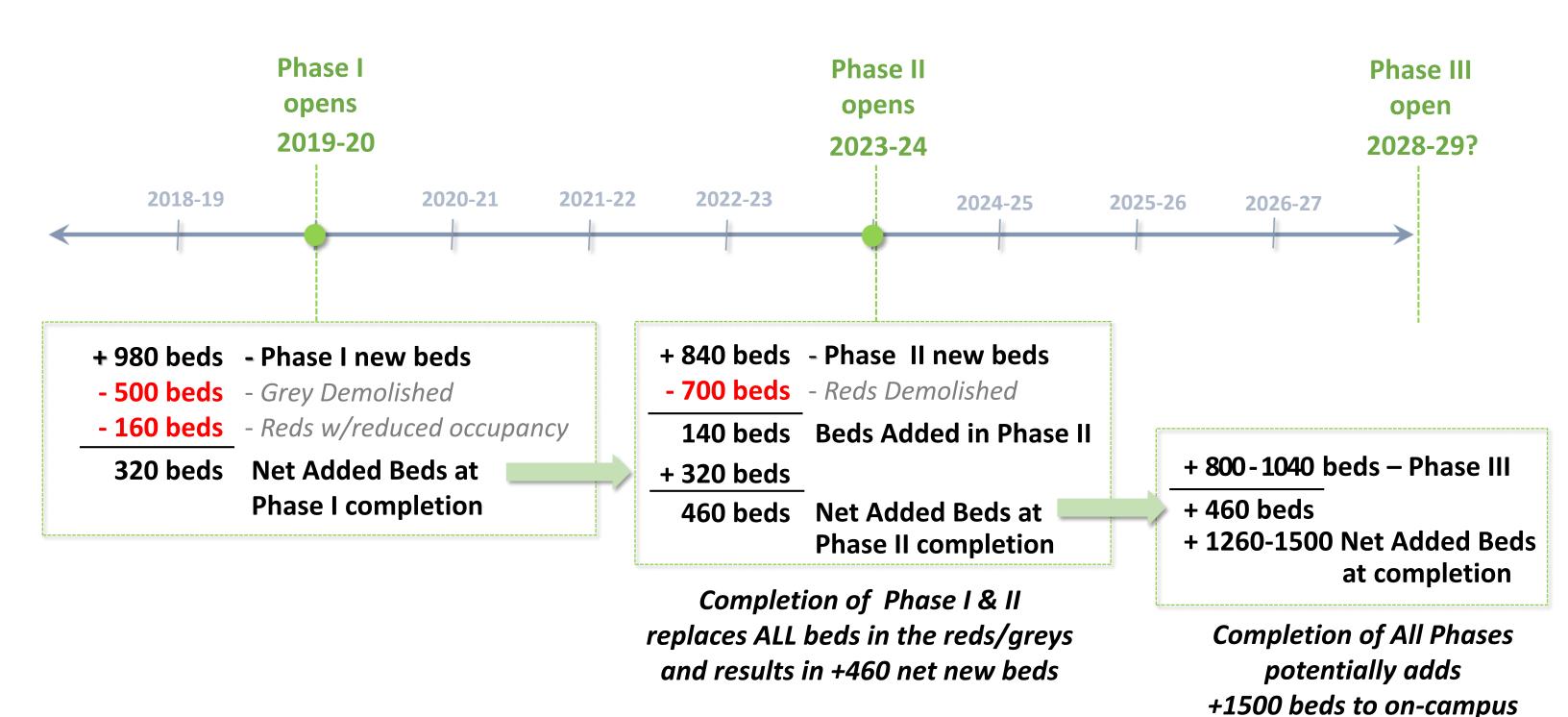
## STUDENT HOUSING REPLACEMENT - PHASE 1



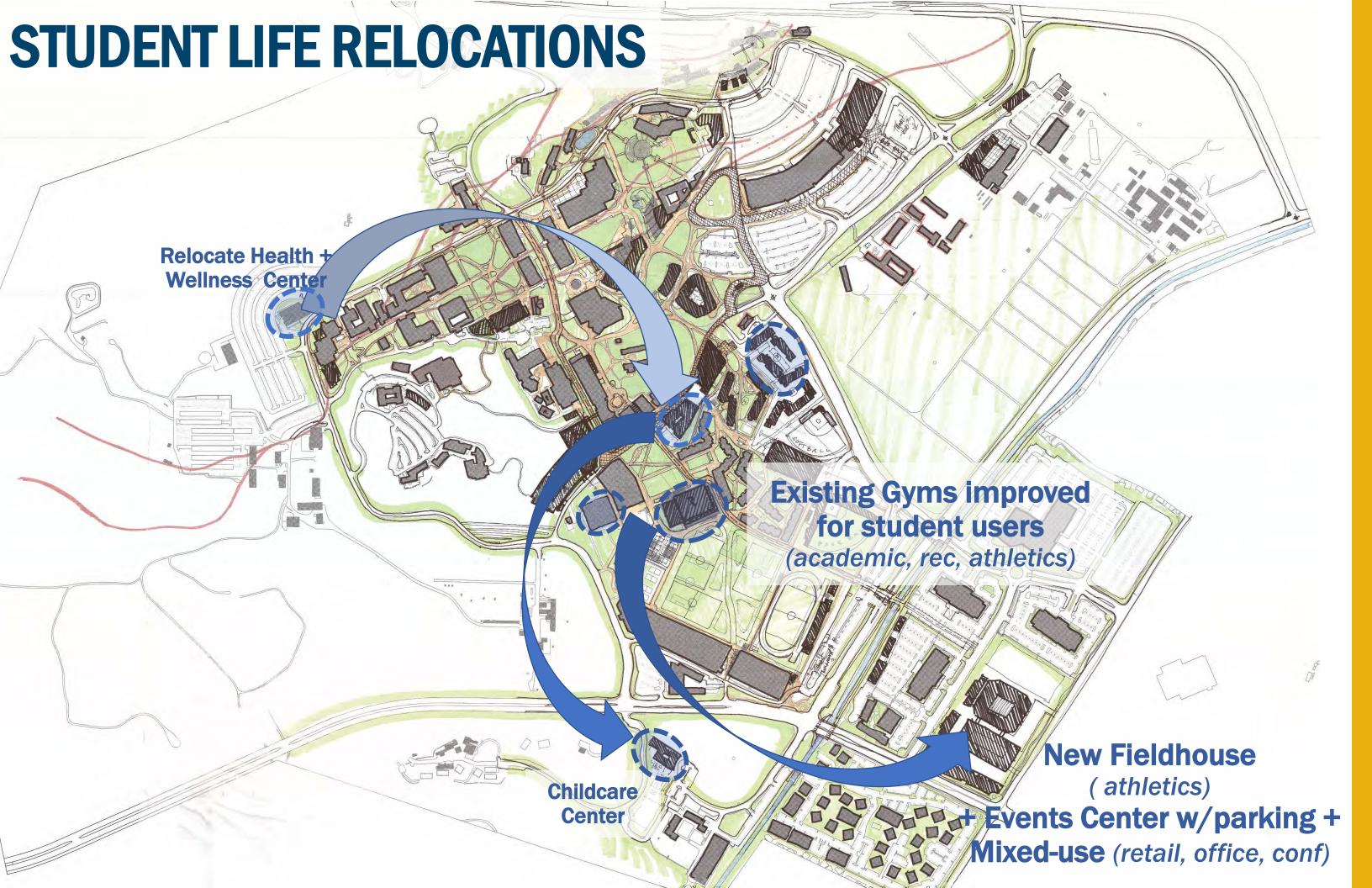
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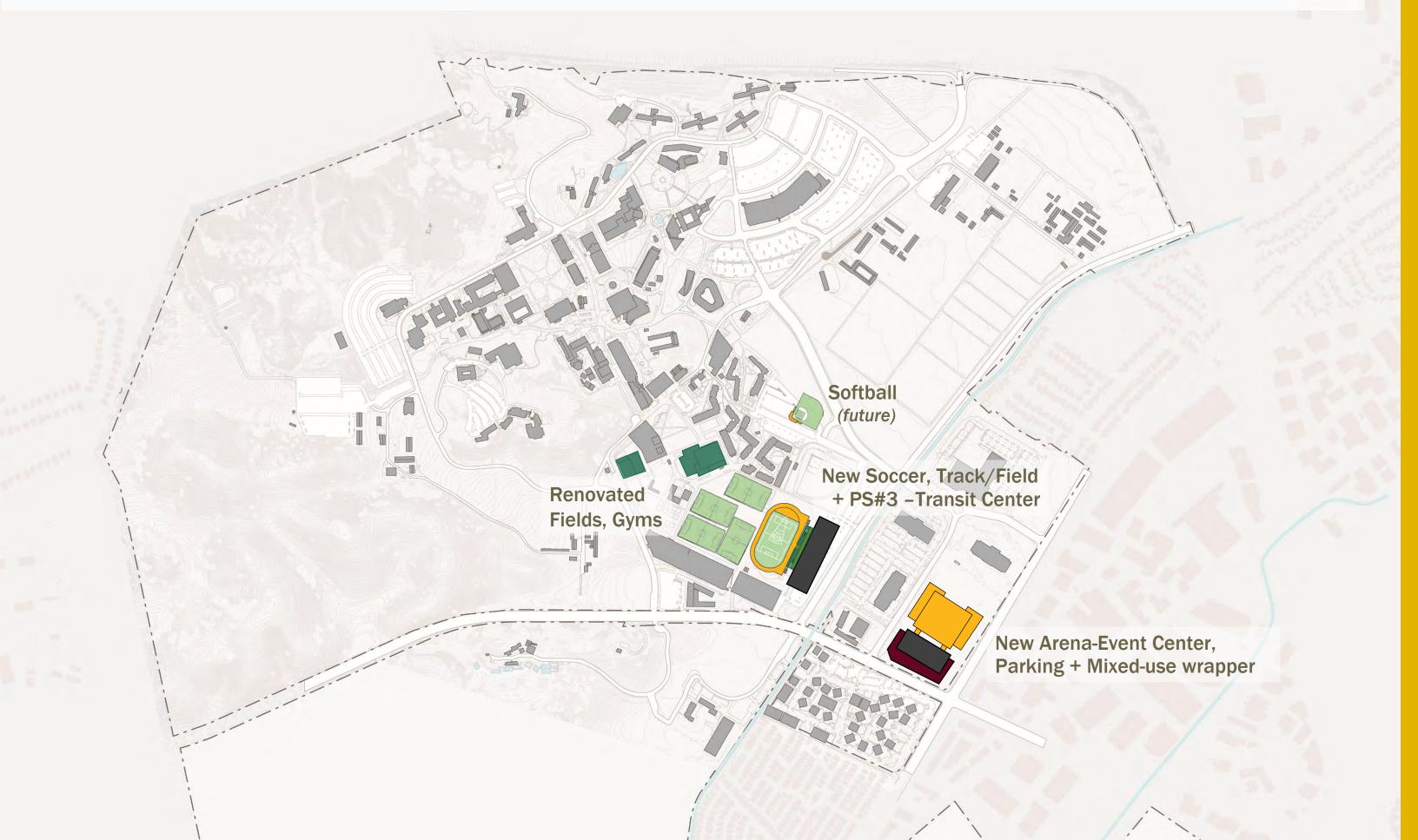
### STUDENT HOUSING BED COUNTS



housing capacity



# ATHLETICS/REC FACILITIES PROPOSED



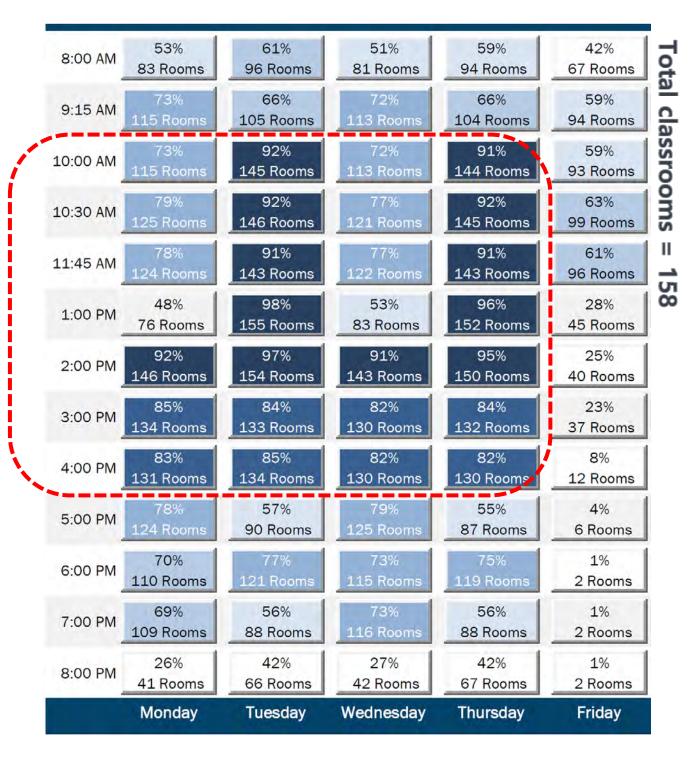
# **Space Analysis and Utilization**

### **Preliminary Findings**

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

### **SPACE CAPACITY - UTILIZATION FINDINGS**

#### Fall 2017



#### Fall 2018



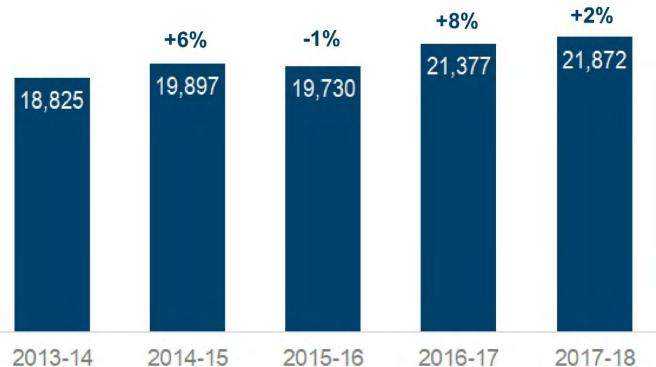
### **SPACE CAPACITY - UTILIZATION FINDINGS**

### FTE Capacity v. Actual Total FTEs Taught

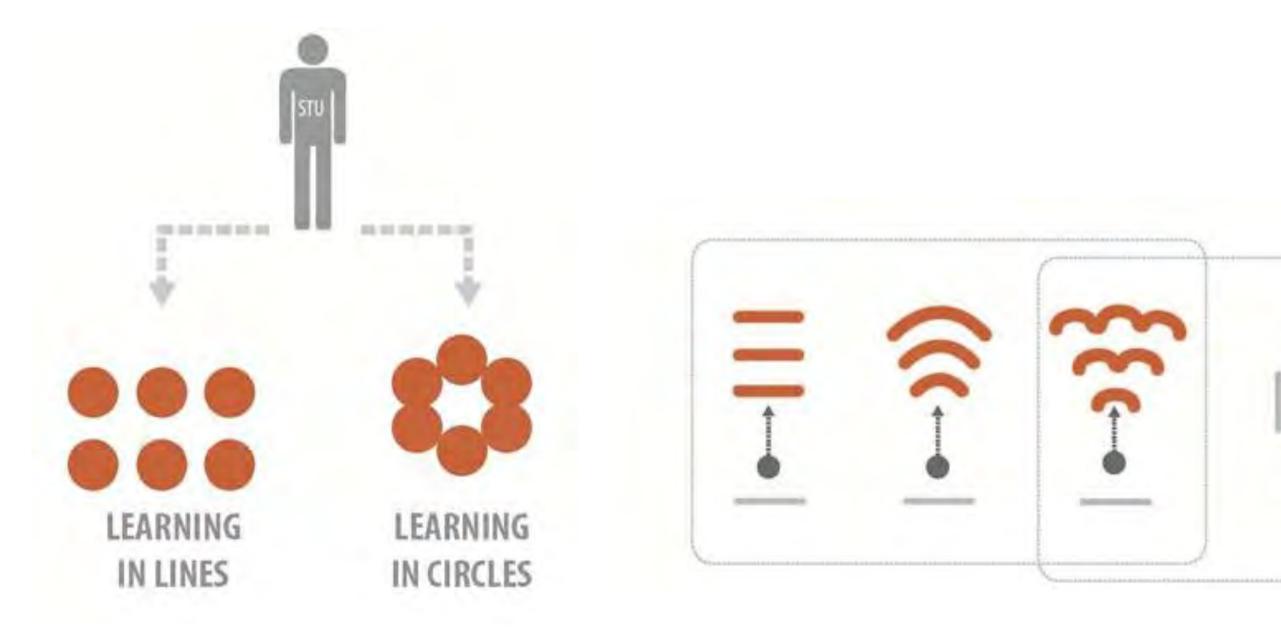
College Year Annualized Full-Time			6/20/2018		
California State Polytechnic University, F	Pomona				
	2013-14	2014-15	2015-16	2016-17	2017-18
1) CSU FTES Capacity for Campus	*	*	17,993.00	18,292.00	18,292.00
2) CSU Resident FTES Target	17,356.00	17,756.00	18,294.00	18,586.00	18,714.00
3) Campus total FTES Goal	18,244.00	18,769.00 19,897.00	19,794.00 19,730.00	20,870.00 21,376.90	21,443.30 21,872.20
4) Actual total FTES Taught	18,825.00				
	Percen	t of Capacity	110%	117%	120%
CSU FTES Capacity for Campus is a c	alculation used in the	a analysis of now	shoon oods		
* If necessary, older figures could be re-		e analysis of flew	space needs		
2) CSU Resident FTES Target is budget t	teaching expectation	for California res	sident students		
3) Campus total FTES Goal is planned to	eaching expectation	for all students, r	esident plus nor	resident	
4) Actual total FTES Taught is final colle	ge-year outcome				0 -41

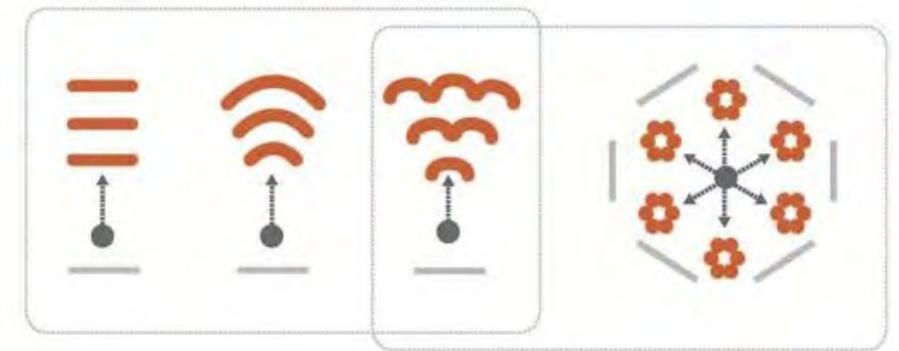
Prepared by Academic Research and Resources

#### **Actual Total FTEs Taught**



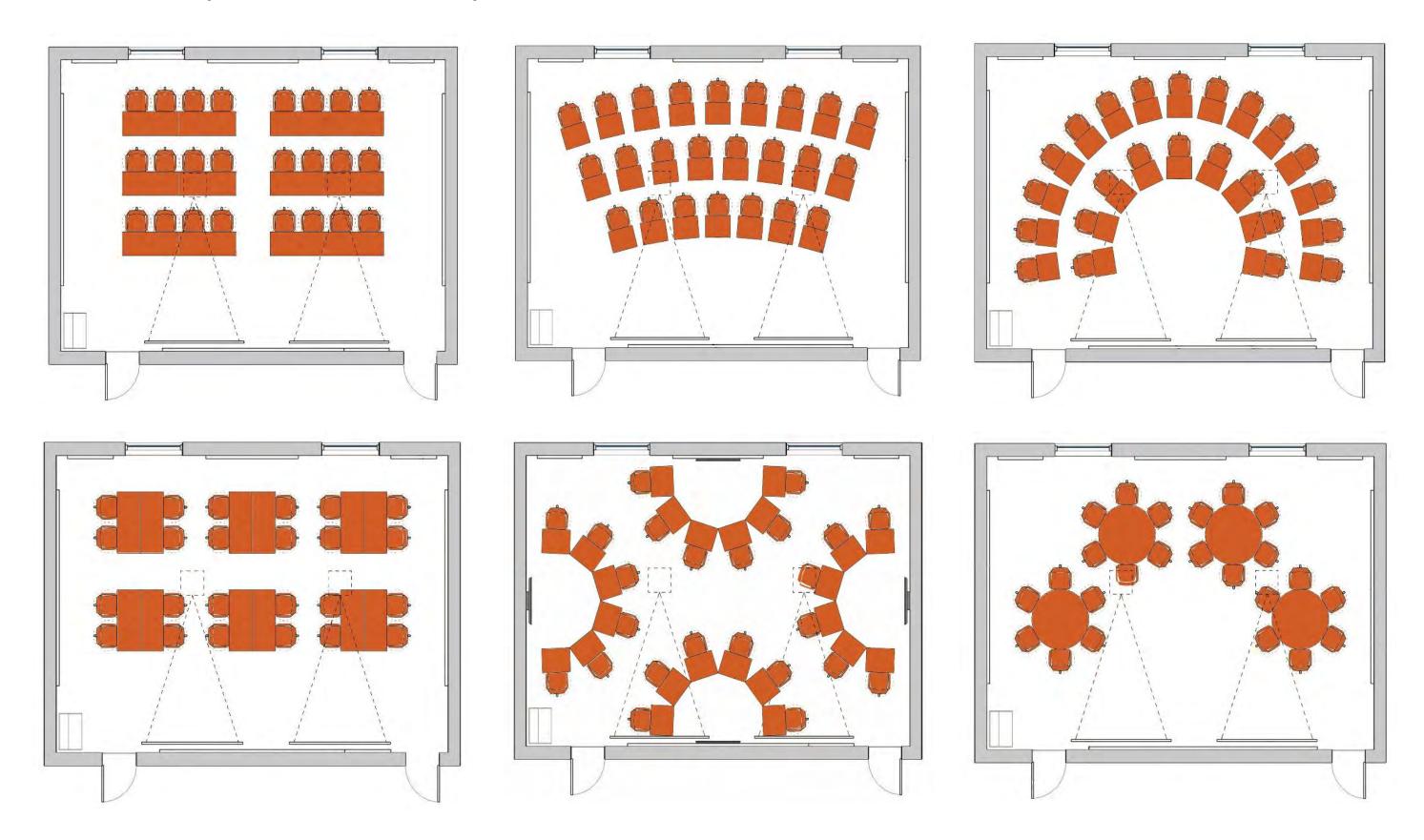
### LEARNING ENVIRONMENTS FOR STUDENT SUCCESS



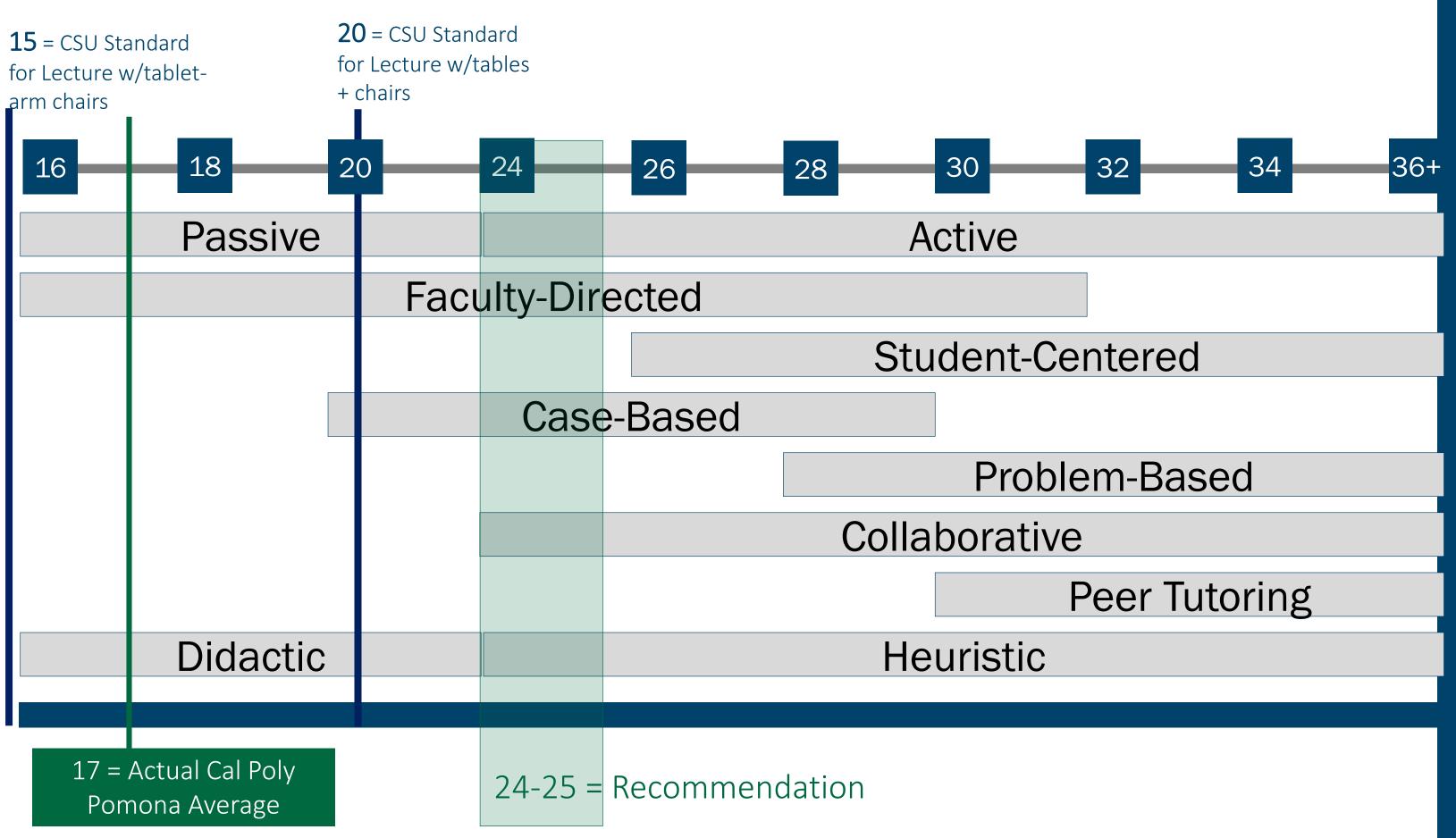


### SPACE ACCOMMODATES VARYING APPROACHES

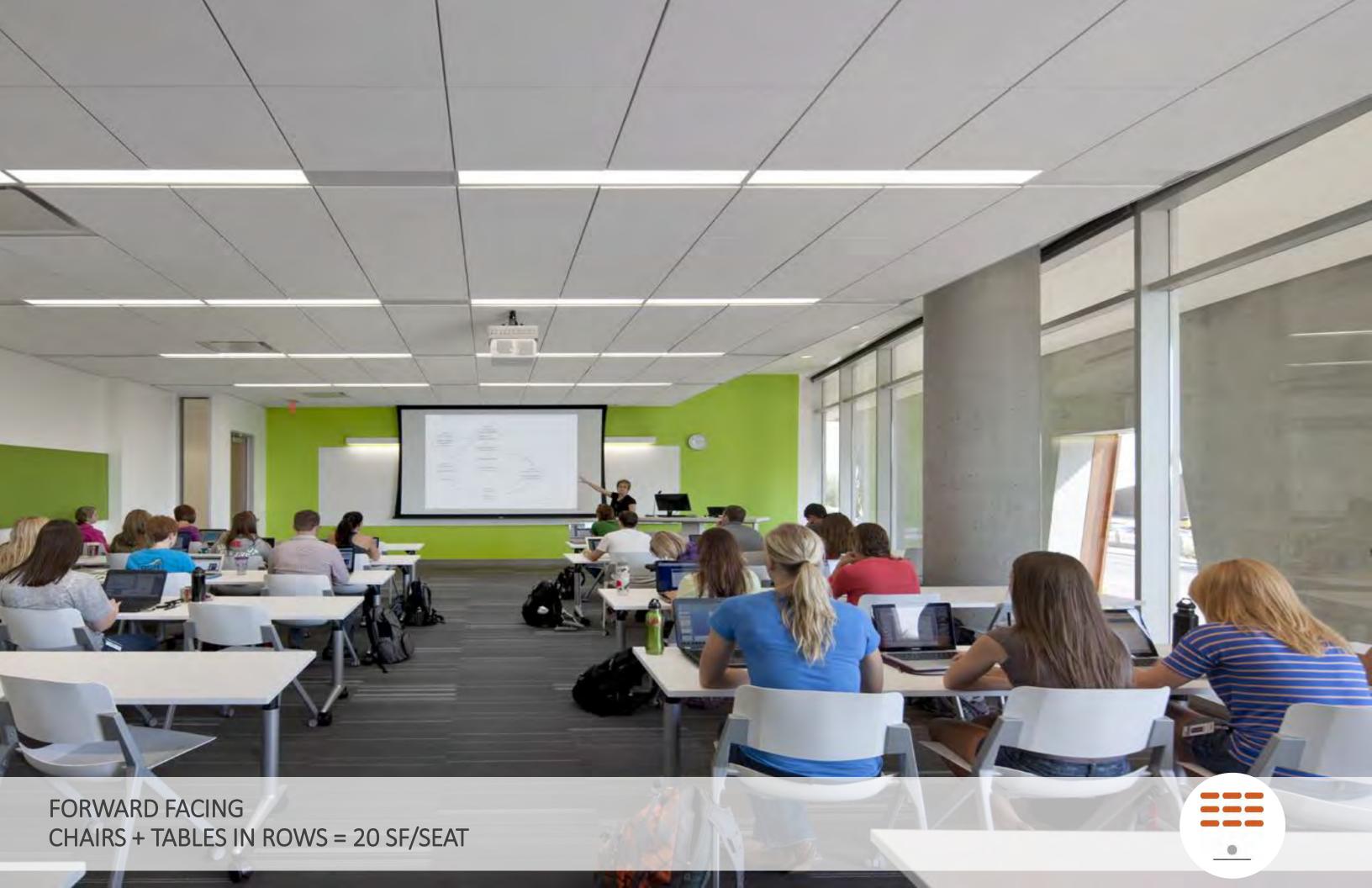
850 NASF / 24 STU = 35 SF/STU



# NASF/SEAT FOR LEARNING MODALITIES









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





LEARNING LAB, MULTIPLE FRONTS

COLLABORATIVE TABLES + TECHNOLOGY = 24-30 SF/PERSON

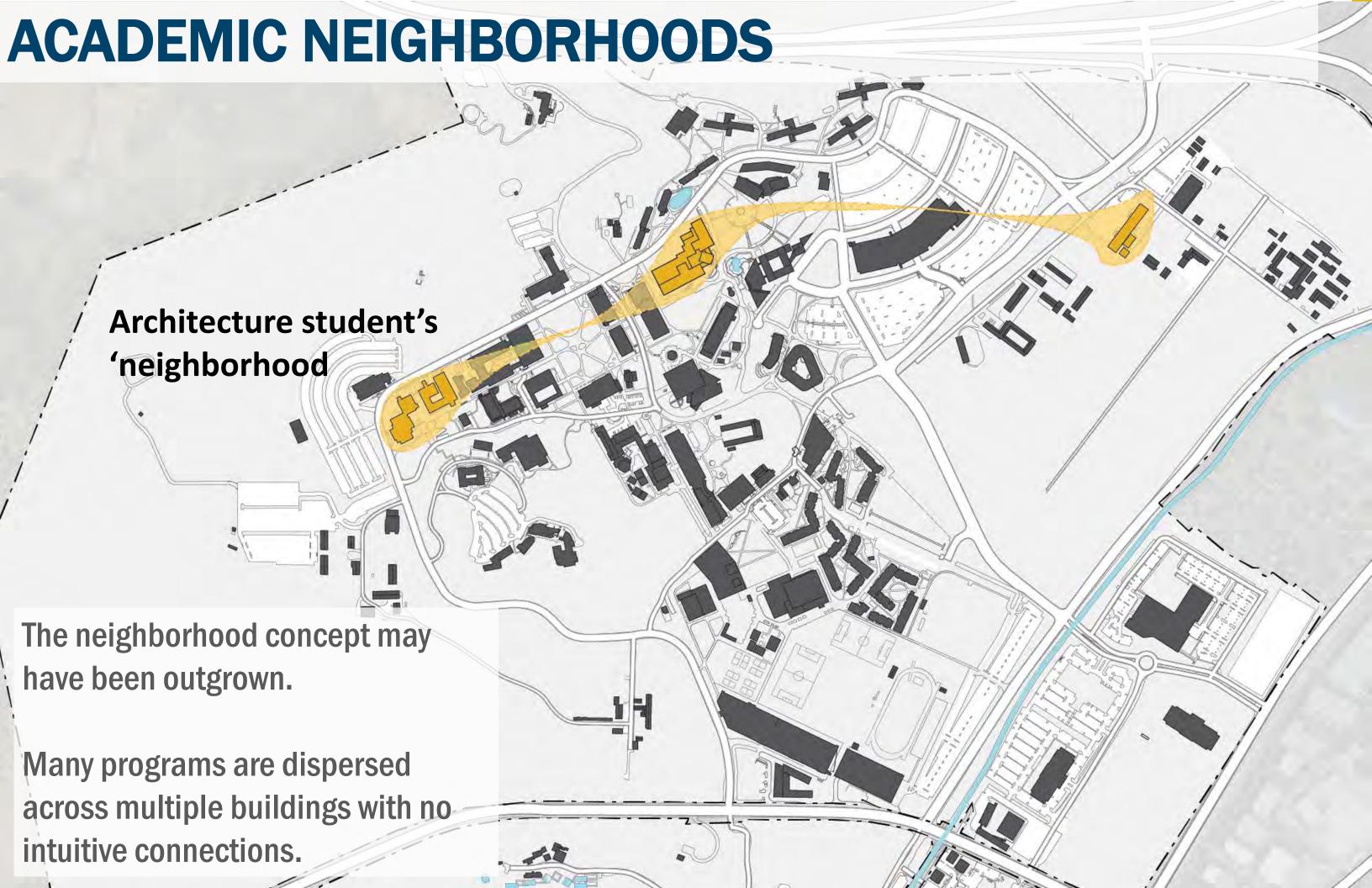


# Synthesis + Area Studies + Analysis

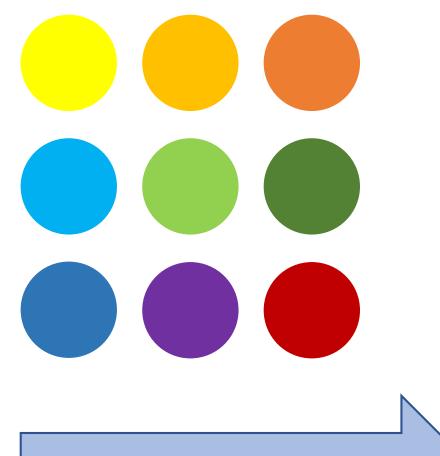
#### **Academic Needs**

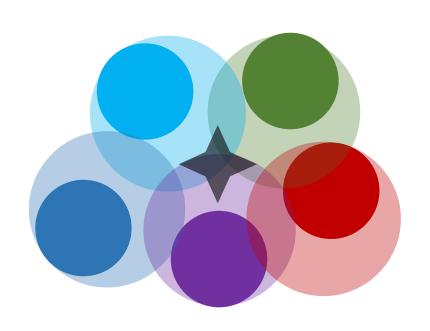
- o opportunities for hubs, shared faculty resources + instructional space
- o Bldg 98 CLA new/replacement or reinforce/upgrade
- o classroom/class lab demand, capacity for growth
- o need for better space (incl replacing temporaries)
- o library-learning commons, student study space, student success resources

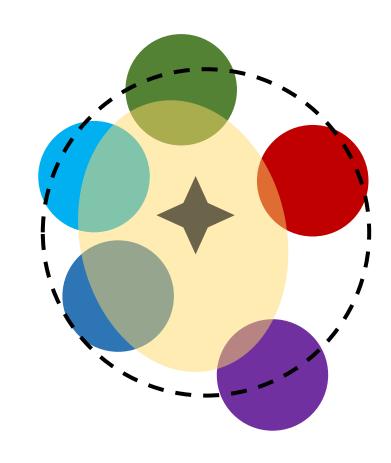




### **NEIGHBORHOODS CONNECTING AROUND HUBS**



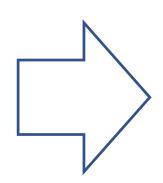




Neighborhoods

#### **Intersections:**

Sponsor interdisciplinary activity + opportunities for collaboration



#### **Hubs:**

Non-siloed space resources w/ample interdisciplinary space

Can we identify opportunities for HUBS in smaller, intermediary spaces, perhaps creating 'connecting' spaces between existing academic buildings?

### **DESIGN FOR HUBS + COMMONS**





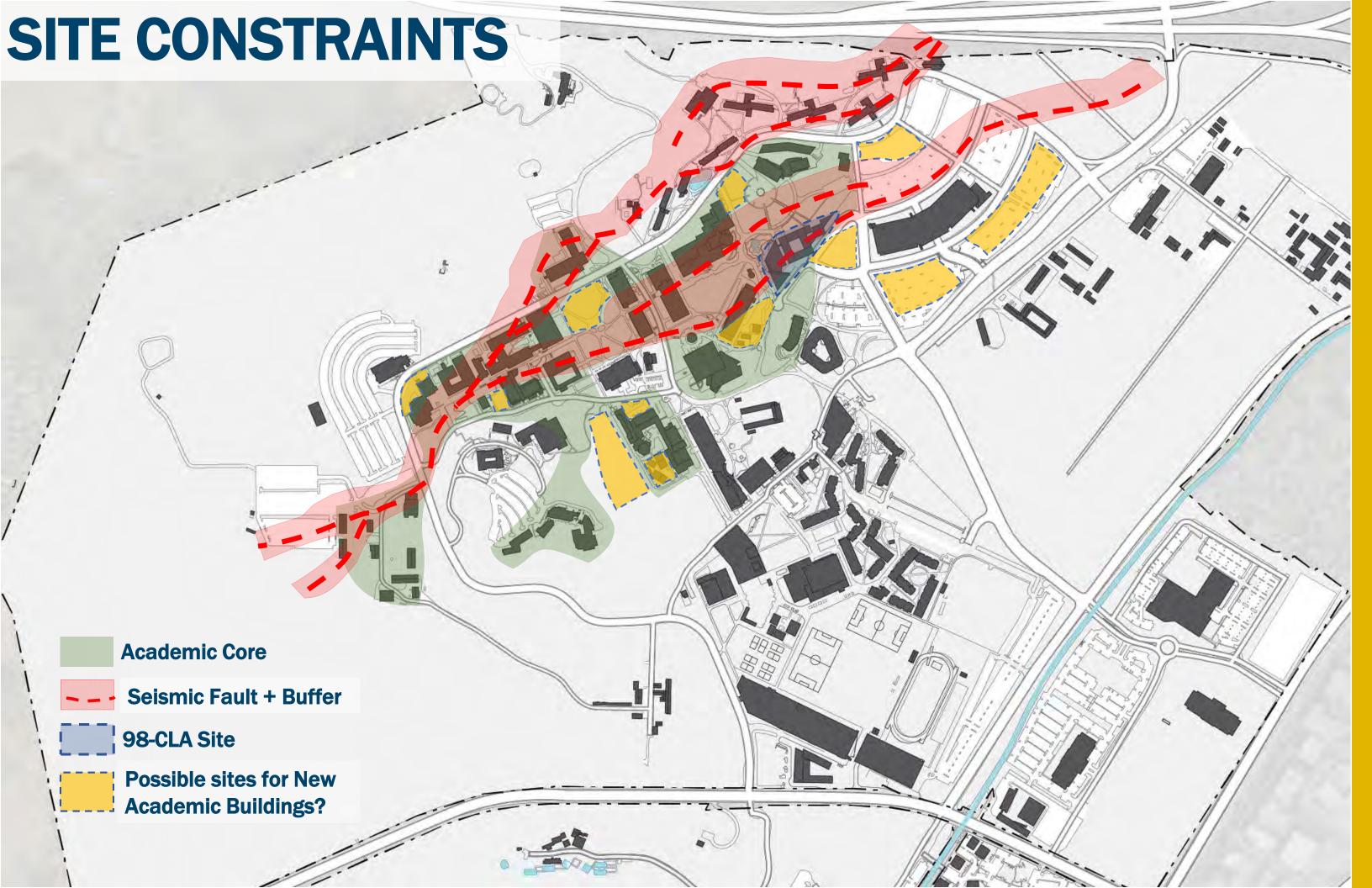


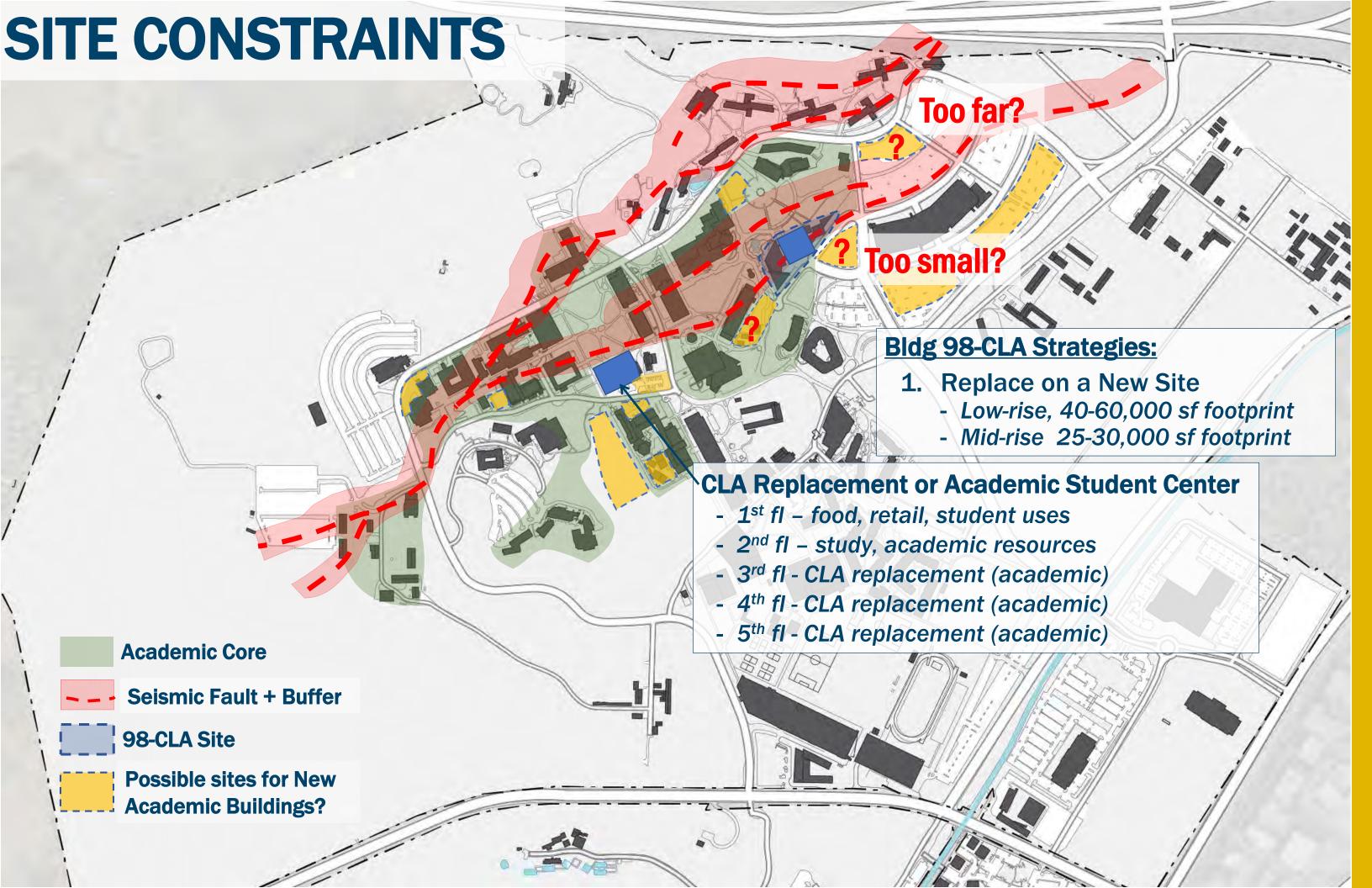


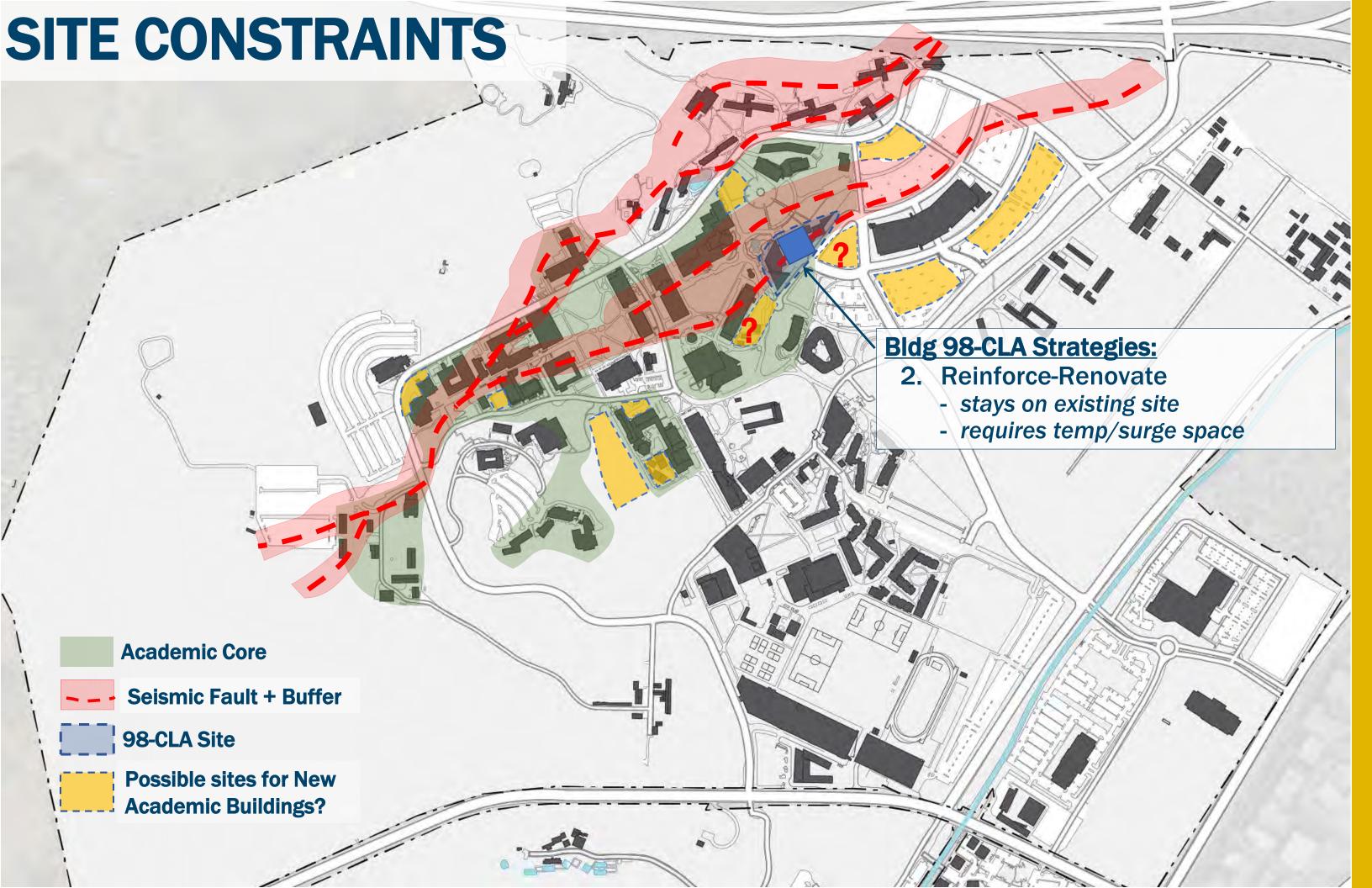
#### Meet me in the Middle

- 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

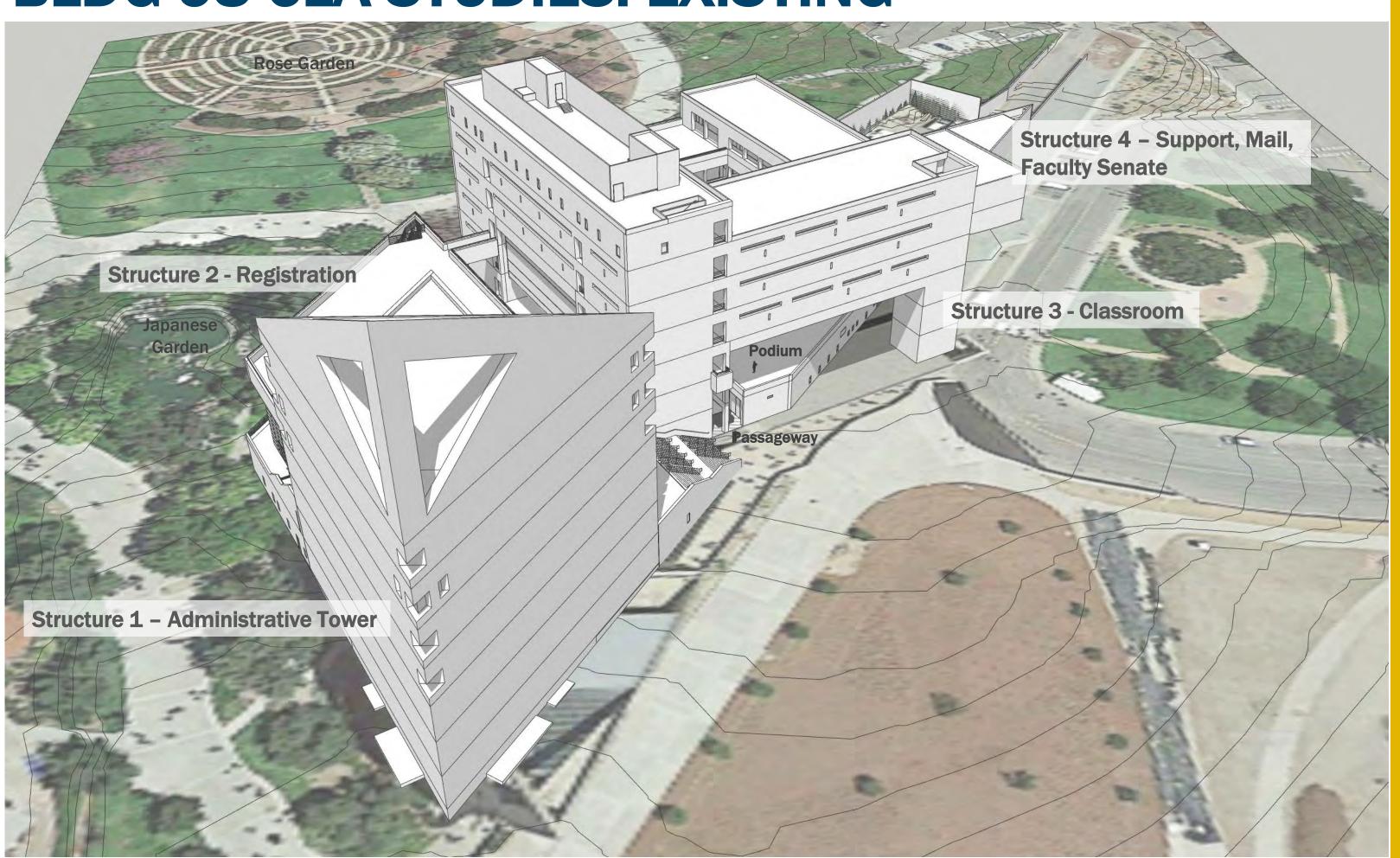




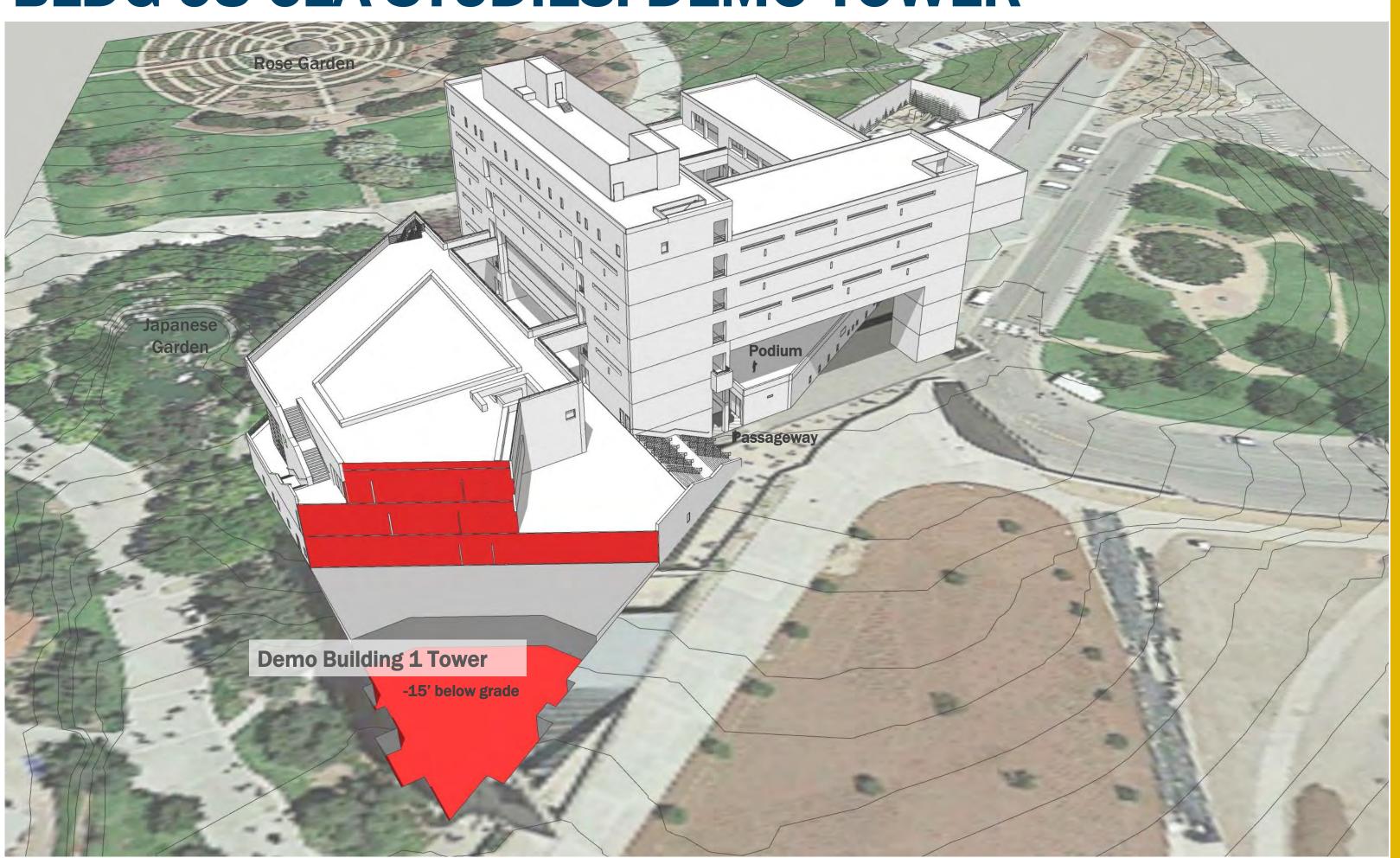




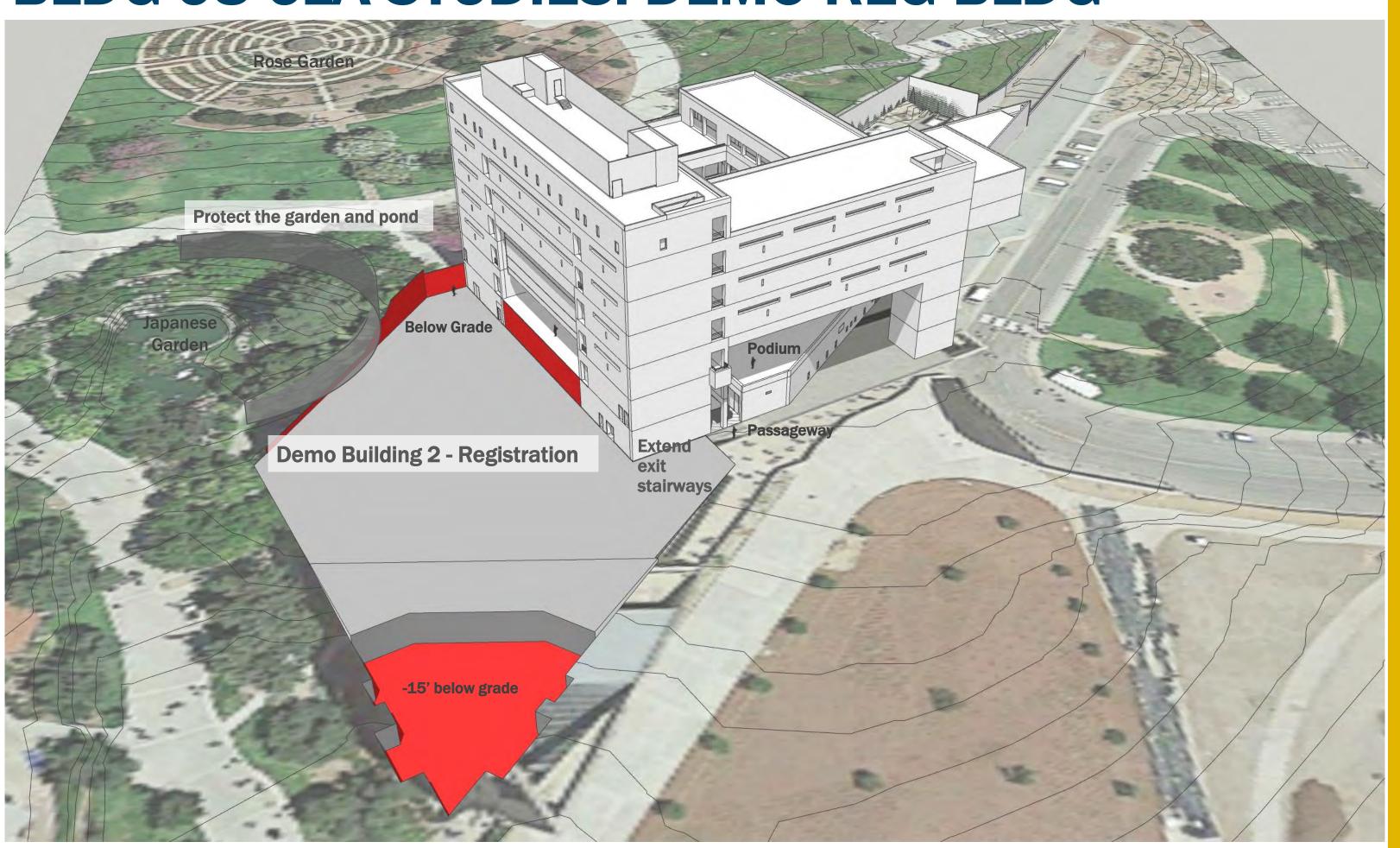
## **BLDG 98-CLA STUDIES: EXISTING**



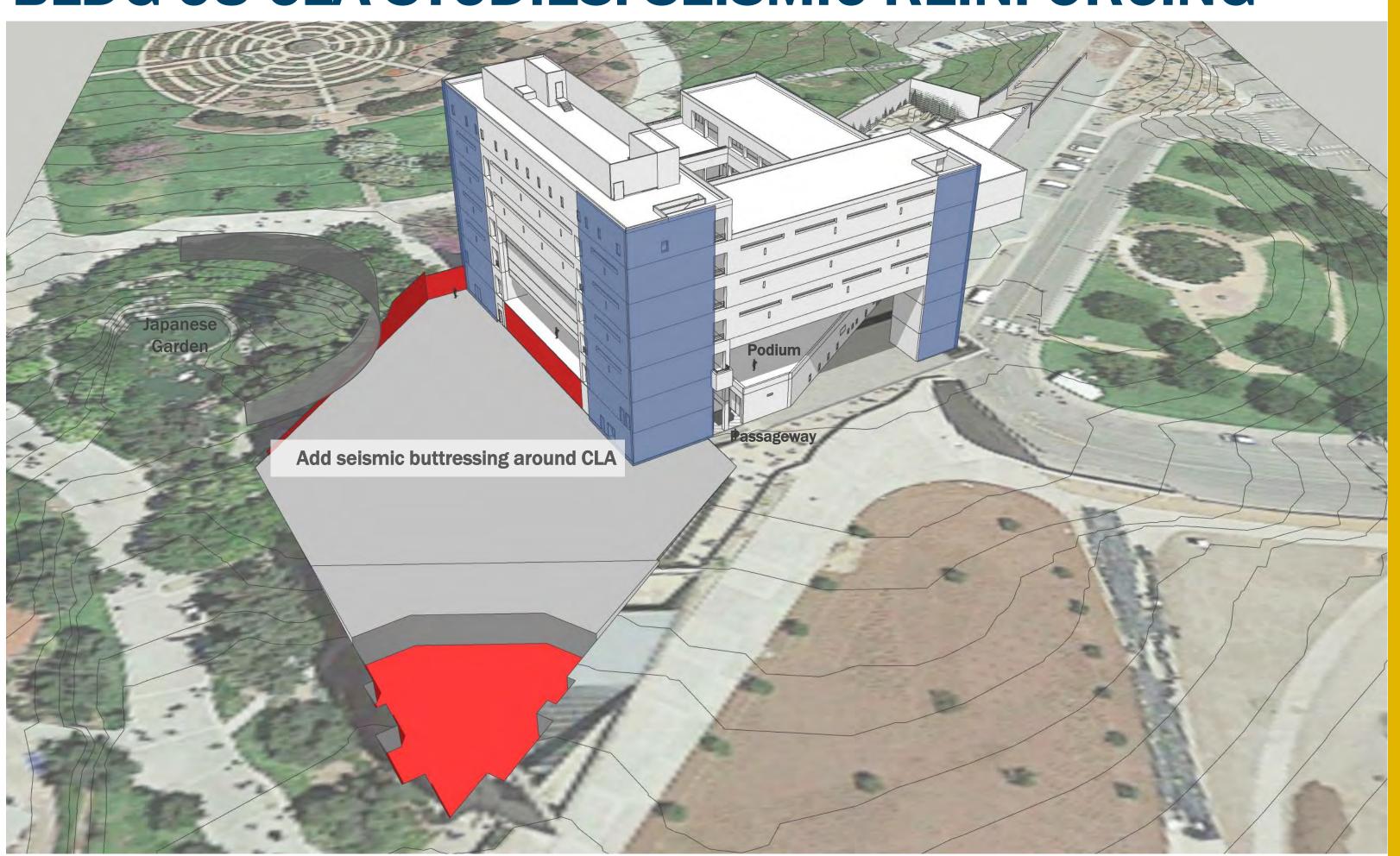
# **BLDG 98-CLA STUDIES: DEMO TOWER**



## BLDG 98-CLA STUDIES: DEMO REG BLDG



## BLDG 98-CLA STUDIES: SEISMIC REINFORCING



# BLDG 98-CLA STUDIES: Option 1



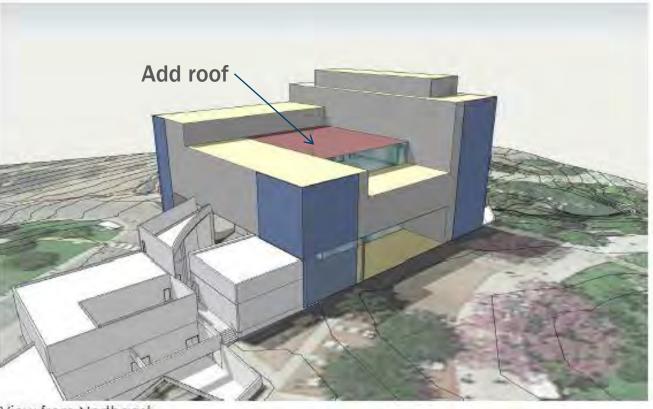


View from Southwest - level 2 3D floor plan

CLA BUILDING 098 - ENCLOSURE STUDIES

#### **OPTION 1**

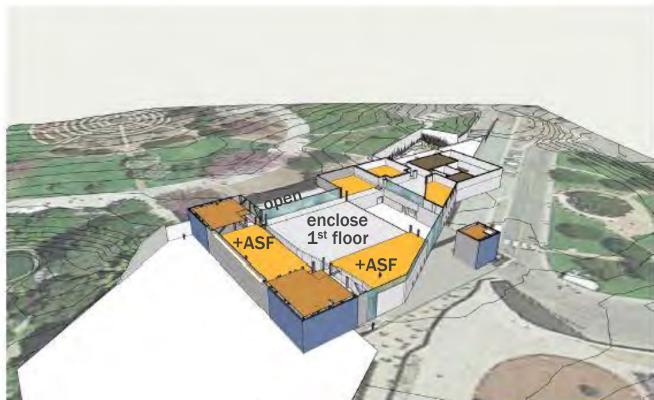
142,000	SF	Gross Area (110,480 SF existing)
60,100	SF	New exterior walls/fenestration
9,860	SF	New exterior walls/fenestration w/ add. Structure
23,500	SF	Structural shear wall reinforcement
21,950	SF	Re-roofing
6,800	SF	New roof with structure
15,800	SF	Exterior soffit
7,427	SF	Exterior plaza/courtyard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



View from Northeast

# BLDG 98-CLA STUDIES: Option 2





View from Southwest - level 2 3D floor plan

CLA BUILDING 098 - ENCLOSURE STUDIES

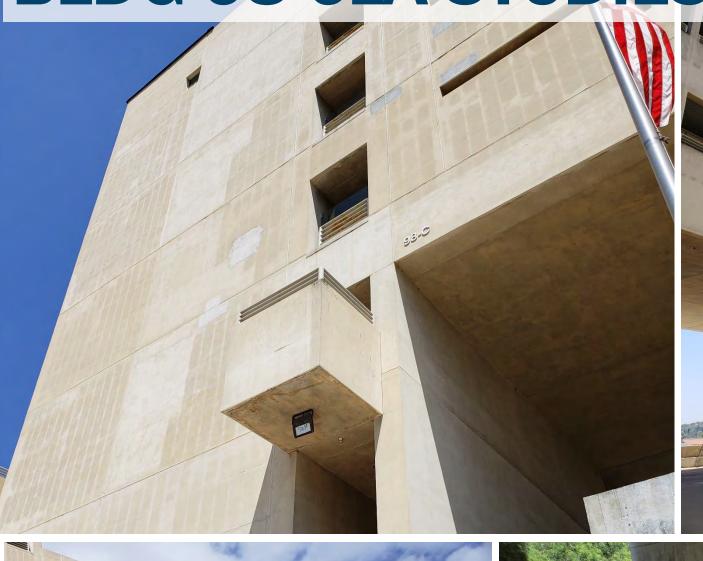
#### **OPTION 2**

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 Northeast

# BLDG 98-CLA STUDIES: ENCLOSURE + COST

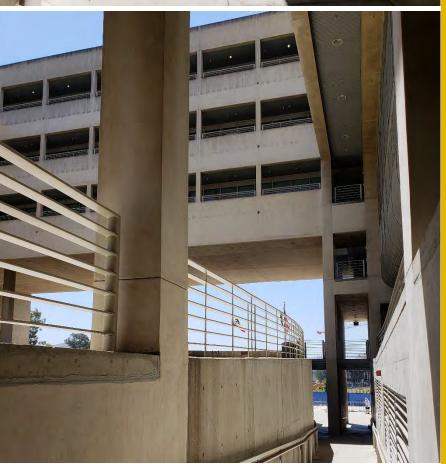












# **BLDG 98-CLA STUDIES: Interior Design Precedents**

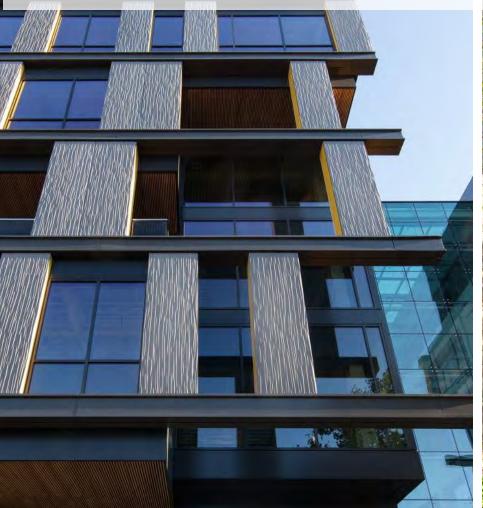






atrium

# **BLDG 98-CLA STUDIES: Exterior Design Precedents**















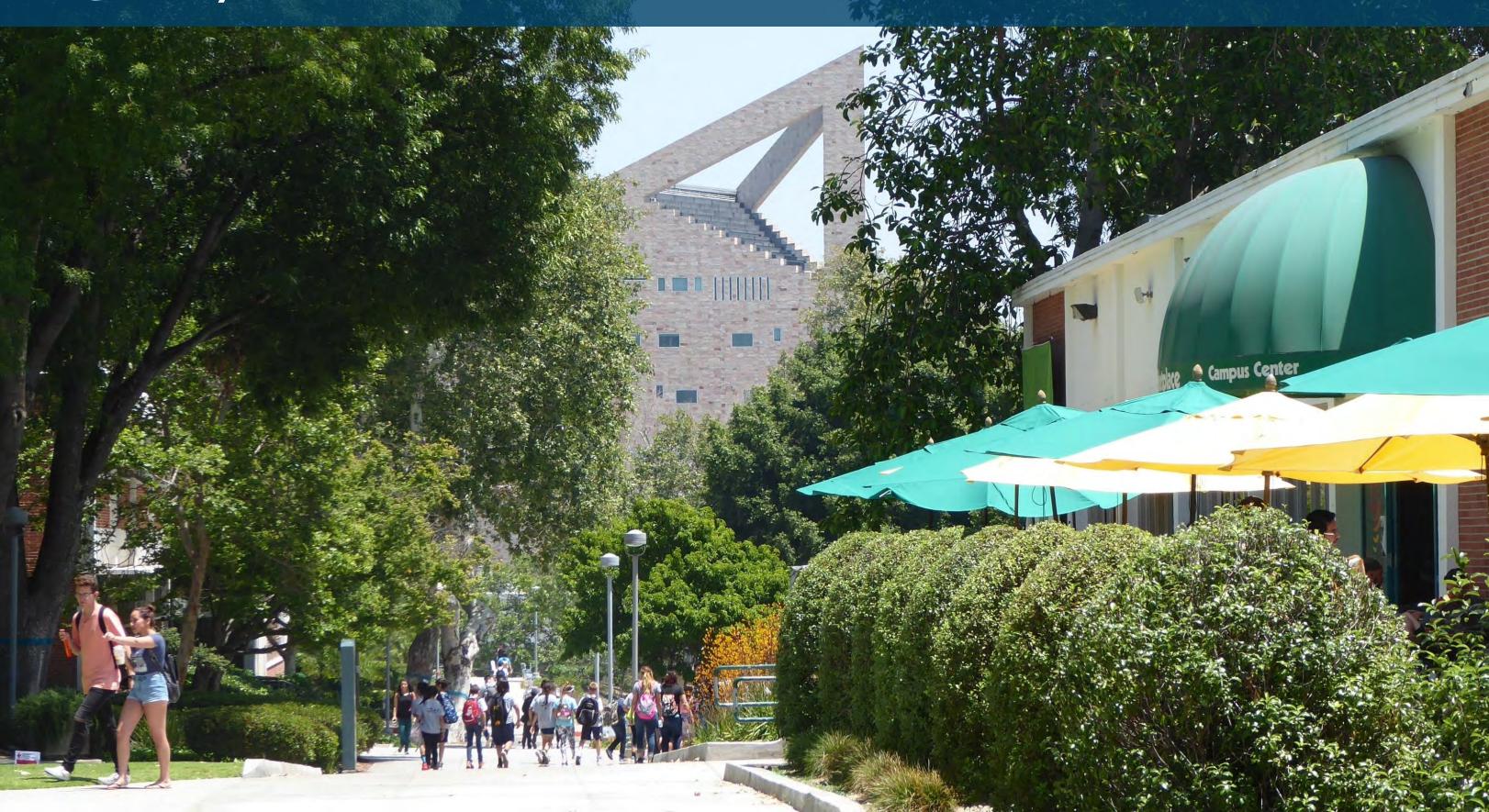


enclosure

# BLDG 98-CLA STUDIES: Design



# Q+A / Discussion



## Master Plan 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

