

Laramie County Community College Master Plan Update

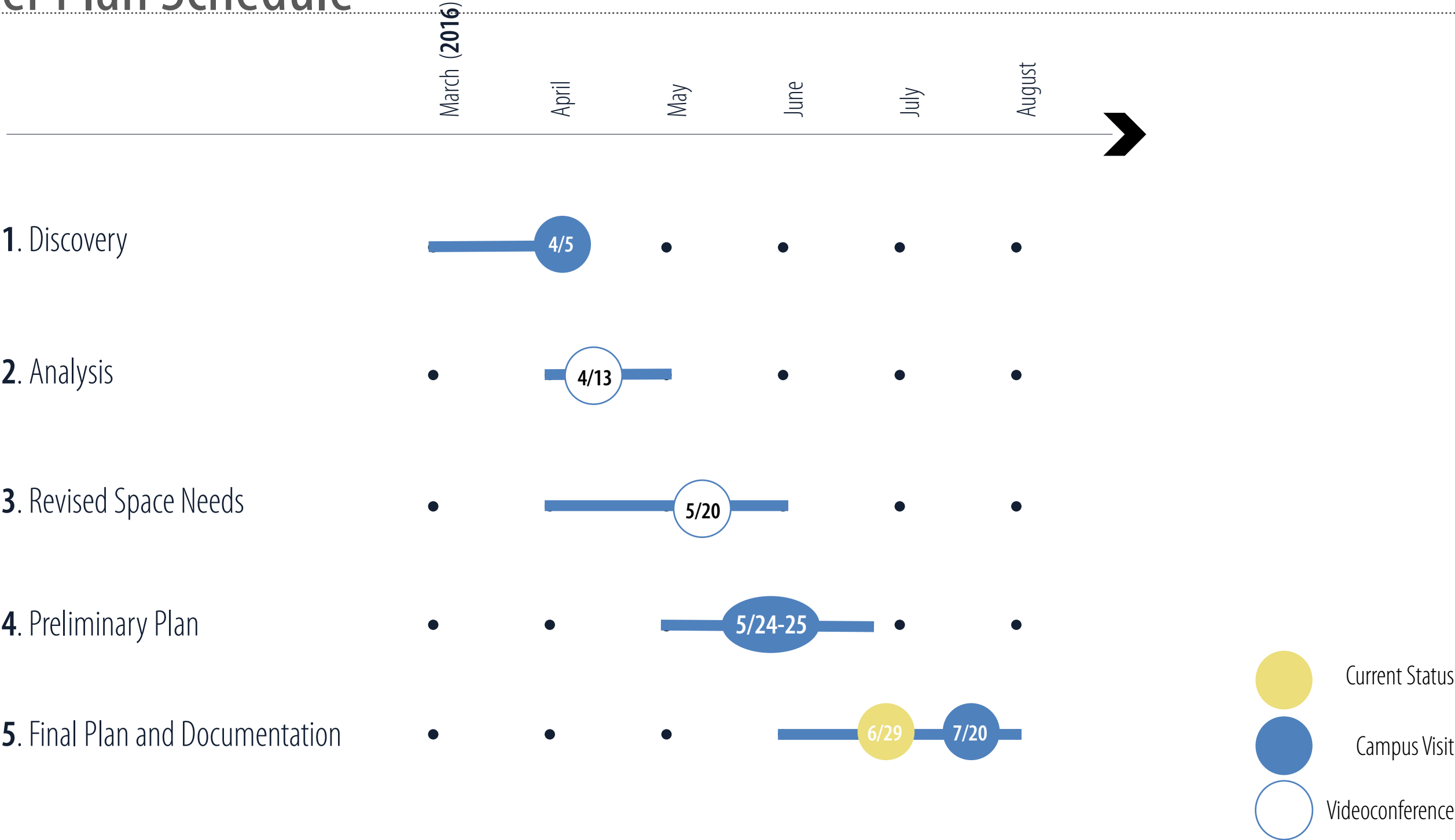
Board of Trustees Presentation

| 06.29.2016

Agenda

1. Space Needs Summary
2. Floorplan Analysis
3. Master Plan Initiatives
4. Space Backfill Strategies
5. Site Scenarios
6. Albany County Campus

Master Plan Schedule



Space Needs Summary



Space Needs

LCCC Master Plan Enrollment Assumptions

Cheyenne On-Campus Enrollment	Fall 2010 Master Plan	Actual Fall 2015	% Change 2010 to 2015	Fall 2020	% Change 2015 to 2020
Headcount	2,685	2,425	-10%	2,571	6%
FTE	2,423	1,930	-20%	2,085	8%
Albany County Campus On-Campus	Fall 2010 Master Plan	Actual Fall 2015	% Change 2010 to 2015	Fall 2020	% Change 2015 to 2020
Headcount	836	708	-15%	750	6%
FTE	635	434	-32%	460	6%

Fall 2010 and Fall 2015 enrollment data from LCCC IR reports

Space Needs Recap

Base Year (Fall 2015)

Target Year (2020)

	<u>Surplus</u>	<u>Deficit</u>	<u>Surplus</u>	<u>Deficit</u>
Academic Space	Classroom + Service Teaching Lab + Service Office + Service	Open Lab + Service Academic Success Labs Other Department Space	Classroom + Service Teaching Lab + Service Open Lab + Service Office + Service	Academic Success Labs Other Department Space
Academic Support Space	Central Computer	Learning Commons/Library PE, Recreation + Athletics Assembly + Exhibit Physical Plant Student Social + Study	Central Computer	Learning Commons/Library PE, Recreation + Athletics Assembly + Exhibit Physical Plant Student Social + Study
Other	Student Center Child Care Center	Res. Life		Student Center Res. Life Child Care Center

Space Use Classification

- Assembly & Exhibit
- Central Computer
- Child Care Center
- Classroom & Service
- Equine Agricultural Center
- Learning Commons/Library
- Nonassignable
- Offices & Service
- Open Laboratories & Service
- UW & Other Department Space
- Outside Organizations
- PE, Recreation, & Athletics
- Physical Plant
- Residence Life
- Student Center
- Student Social & Study
- Academic Success Laboratories
- Teaching Laboratories & Service
- Inactive and Conversion Space

1st Floor



2nd Floor



3rd Floor



4th Floor



Classroom + Lab Use by School

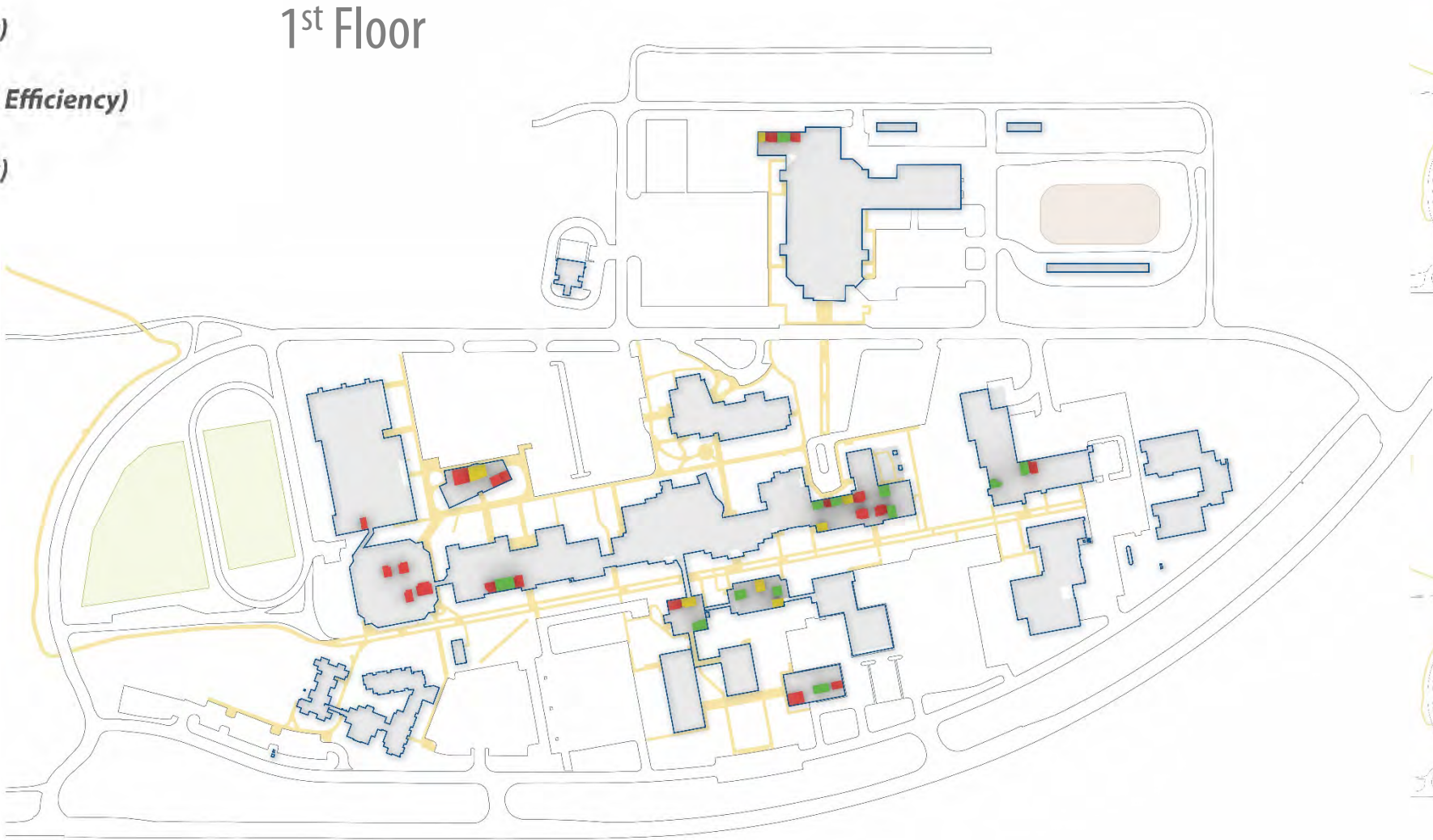


Classroom Efficiency

- $\leq 45\%$ (*Poor Efficiency*)
- 45.1%-69.9% (*Average Efficiency*)
- $\geq 70\%$ (*High Efficiency*)

Does not consider the 4,430 ASF of new classroom space under construction

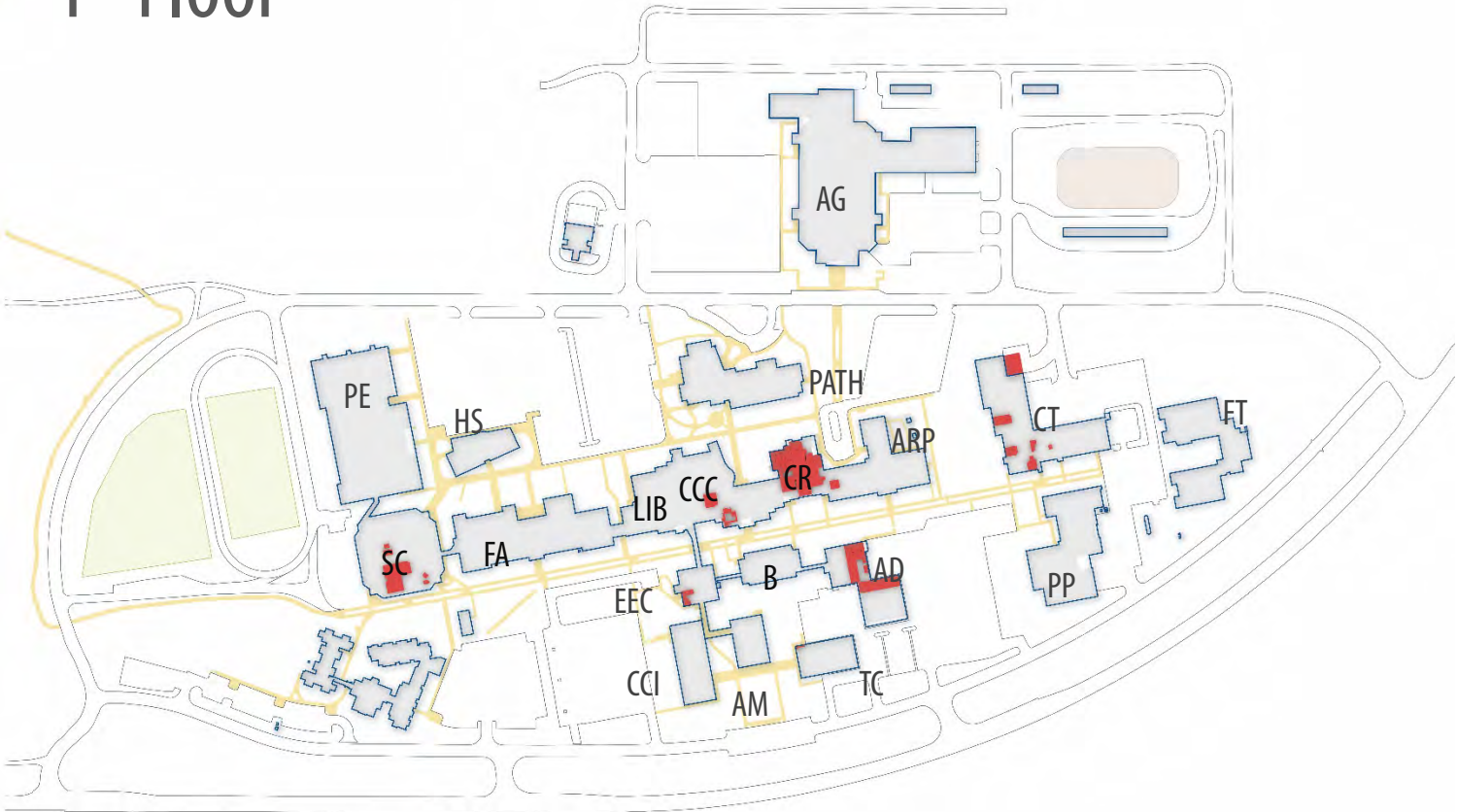
Classroom Guideline = 30 WRH at 65% SSO with 25 ASF/Station



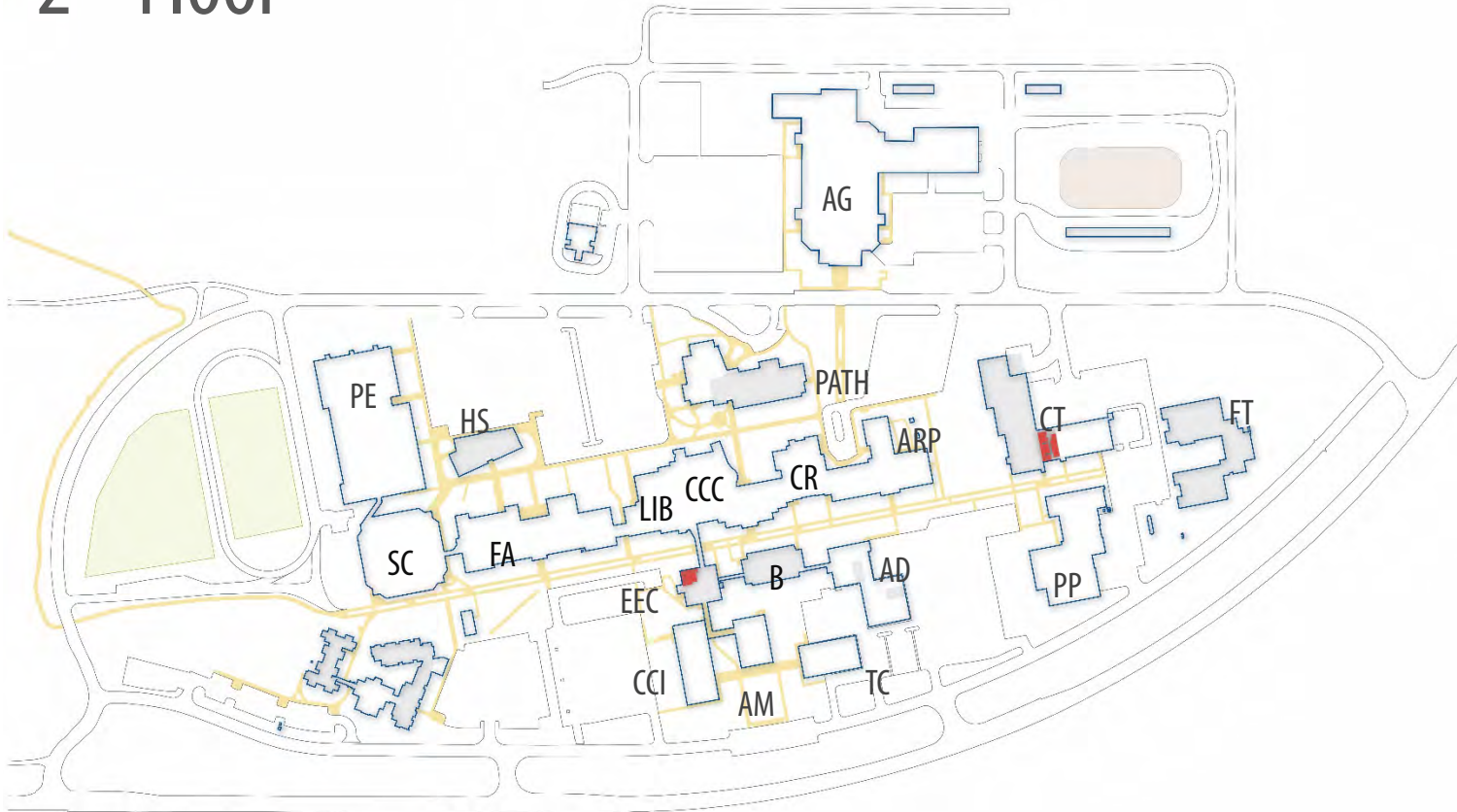
Vacated Rooms

 Vacated Room

1st Floor



2nd Floor



Space Needs Request List

Space Request	ASF		Space Request	ASF
AD104 Reutilization for Automotive Technology	3,476		Institutional Effectiveness Relocation/Expansion	1,800
ARP 169 for additional Math & Science Classroom	502		IT Expansion in Fine arts Building	550
Automotive Technology reuse of AD 116, 116A and 116B	3,266		Library Study Rooms - Relocate Librarians	240
Campus Safety Secure Storage	150		Lightboard Dedicated Space	200
Center for Secondary Students - High School Programs	1,260		Math and Science SC 179, SC168, SC 166	840
Center for Teaching and Learning	1,030		Photography Studio for Public Relations	300
Central Services Relocation	4,495		Relocation of Student Engagement Space	1,060
Children's Discovery Relocation	2,700		Storage Space for Accounting, Payroll, Contracting & Procurement	130
CT 135 Reutilization for Plumbing, Electrical, and HVAC Lab	2,049		Student Veterans/Families Center	400
CT Electrical Closet Expansion	75		Swing Space	3,000
E - Learning Collaborative Center	1,690		The Pantry Relocation	320
Expanded Adult Career and Education System Location	4,890		UW Lease Space for WSBDC and PTAC	830
Field Engineer Office Relocation for Manufacturing-Works	300		Wind Energy Classroom/Instructor Office Relocation	1,120
Human Resources Office	1,280		Total	37,953

Master Plan Initiatives



2011 Master Plan Objectives

A: Strengthen the Existing Academic Mall

B: Create a series of Campus Neighborhoods

C: Redevelop the Loop Road to Serve as a New Campus “Front Door”

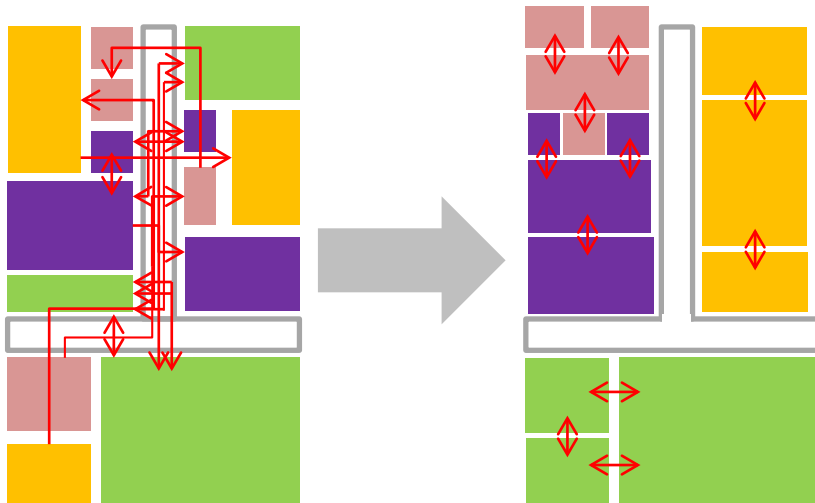


Master Plan Initiatives

Strategic Space Backfill

Optimization

- Does the backfilling/renovation scheme optimize adjacencies and provide for better programmatic effectiveness?



Activation

- Are there opportunities within the backfilling/renovation scheme to activate the central pedestrian spine?



Transformation

- Does the backfilling renovation offer opportunities to transform the space into 21st Century learning environments (i.e. maker spaces, active learning, student interaction)
- Provide 21st century spaces to teach, learn, study, work, collaborate

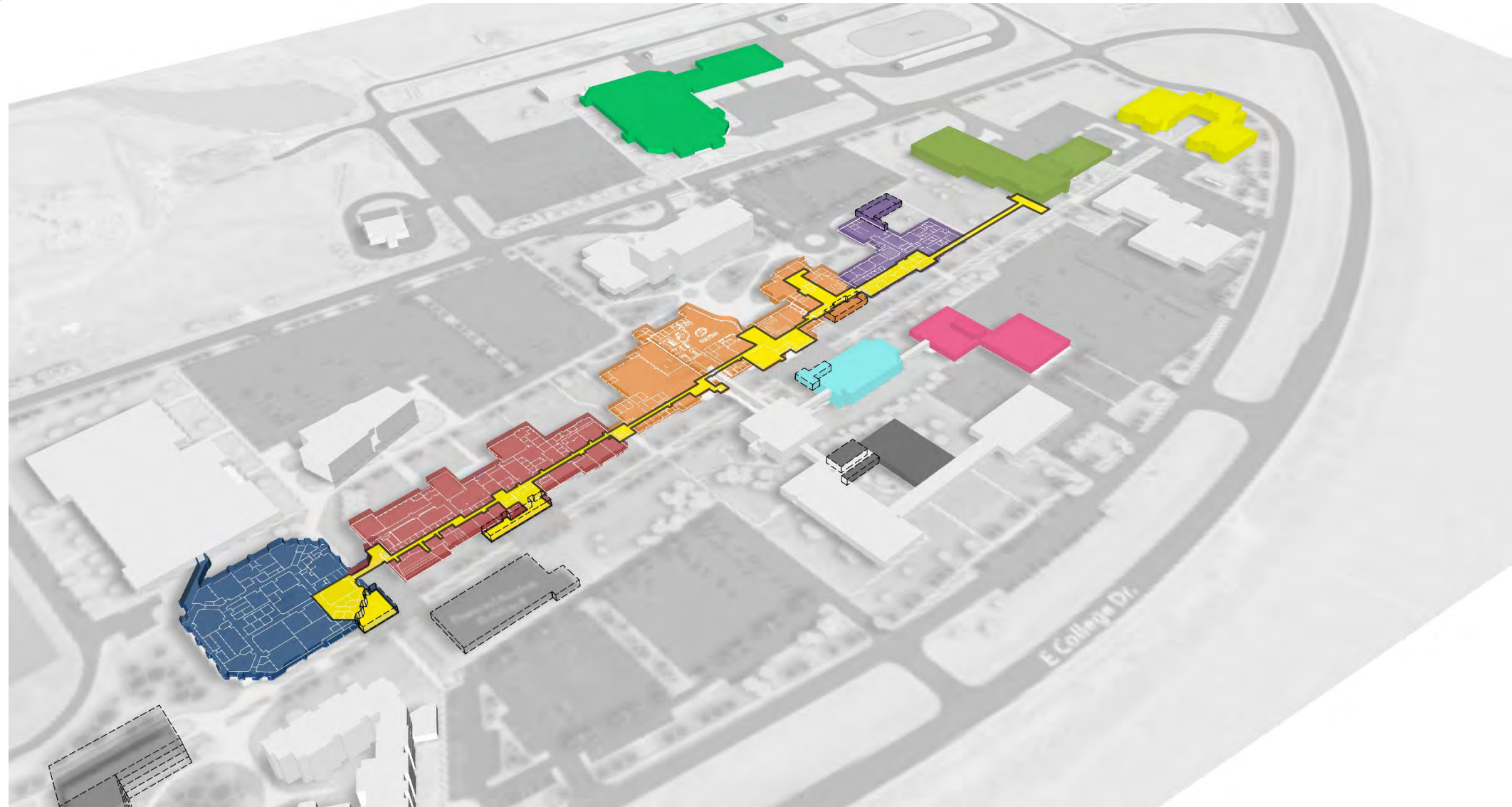


Program Neighborhoods

Program Neighborhoods along Pedestrian Corridor

Develop unique themed student collaboration spaces along the interior spine

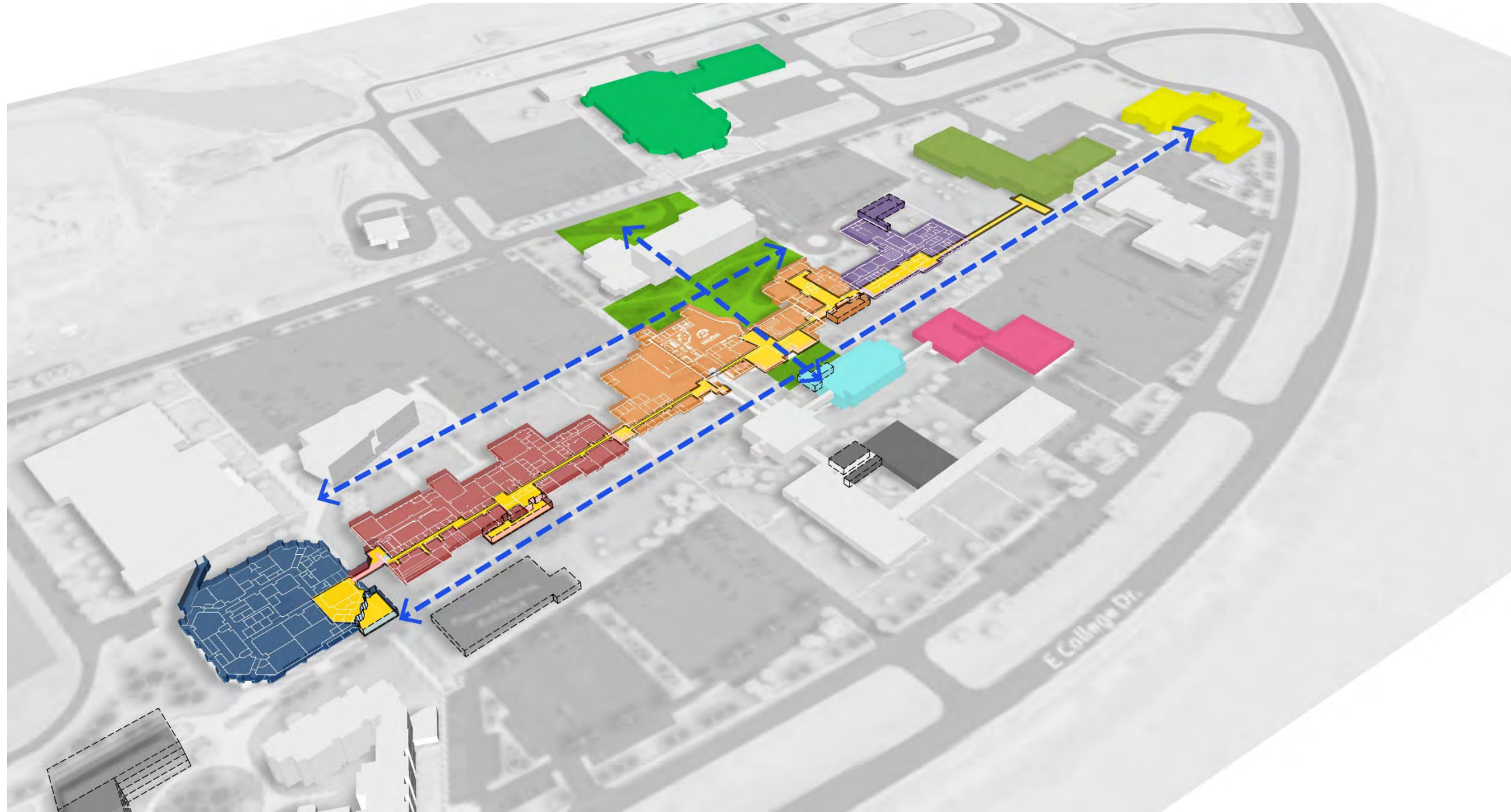
- Science
- Arts
- Student Life
- General Studies
- Career/Technology
- Flex. Tech
- Business
- Automotive Technology
- Ag
- Administration



Campus Crossroads

Create the Campus Crossroads

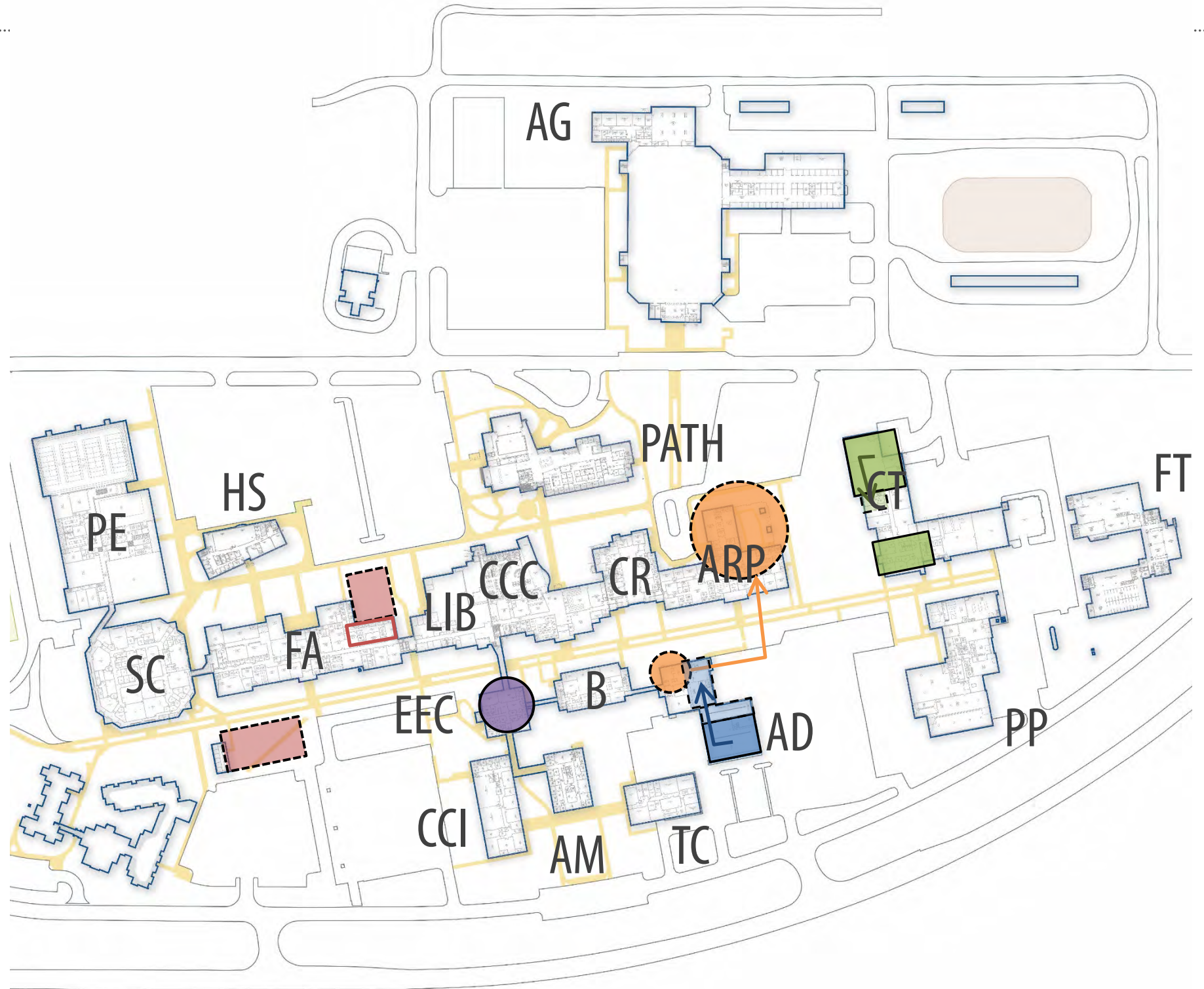
- Create a student centered axis connecting Student Services with Student Center hub
- Develop/strengthen interior/exterior connections




Master Plan Initiatives


Optimize Programmatic Partners to Strengthen Program Neighborhoods


- Relocate Children's Discovery Center near Child Care at ARP
- Expand Automotive Technology into vacated Auto Diesel space
- Expand Wind Energy into vacated Engineering Technology classroom in CT
- Expand Adult Career and Education Systems in vacated space in CT
- Consolidate CTL staff into vacated EEC space
- Locate assembly space near Fine Arts building
- Consolidate IT into Fine Arts Building
- Consolidate Department of Institutional Effectiveness in Fine Arts




Space Request Neighborhoods

-  AD104 Reutilization for Automotive Technology




 ARP 169 for additional Math & Science Classroom


 Automotive Technology reuse of AD 116, 116A and 116B


Campus Safety Secure Storage


 Center for Secondary Students - High School Programs


Center for Teaching and Learning

 Central Services Relocation
-  Children's Discovery Center Relocation



 CT 135 Reutilization for Plumbing, Electrical, and HVAC Lab

 CT Electrical Closet Expansion

 E - Learning Collaborative Center

 Expanded Adult Career and Education System Location

Field Engineer Office Relocation for Manufacturing-Works

 Human Resources Office

Program Neighborhoods

-  Science

 Student Life

 Career/Technology

 Business

 Agriculture
-  Arts

 General Studies

 Flex. Tech

 Automotive Technology

 Administration

Space Request Neighborhoods

- Institutional Effectiveness Relocation/Expansion
- IT Expansion in Fine arts Building
- Library Study Rooms - Relocate 2 Offices
- Lightboard Dedicated Space
- Math and Science SC 179, SC168, SC 166
- Photography Studio for Public Relations
- Relocation of Student Engagement Space
- Storage Space for Accounting, Payroll, Contracting & Procurement
- Student Veterans/Families Center
- Designated Swing Space
- The Pantry Relocation
- UW Lease Space for WSBDC and PTAC
- Wind Energy Classroom/Instructor Office Relocation

Program Neighborhoods

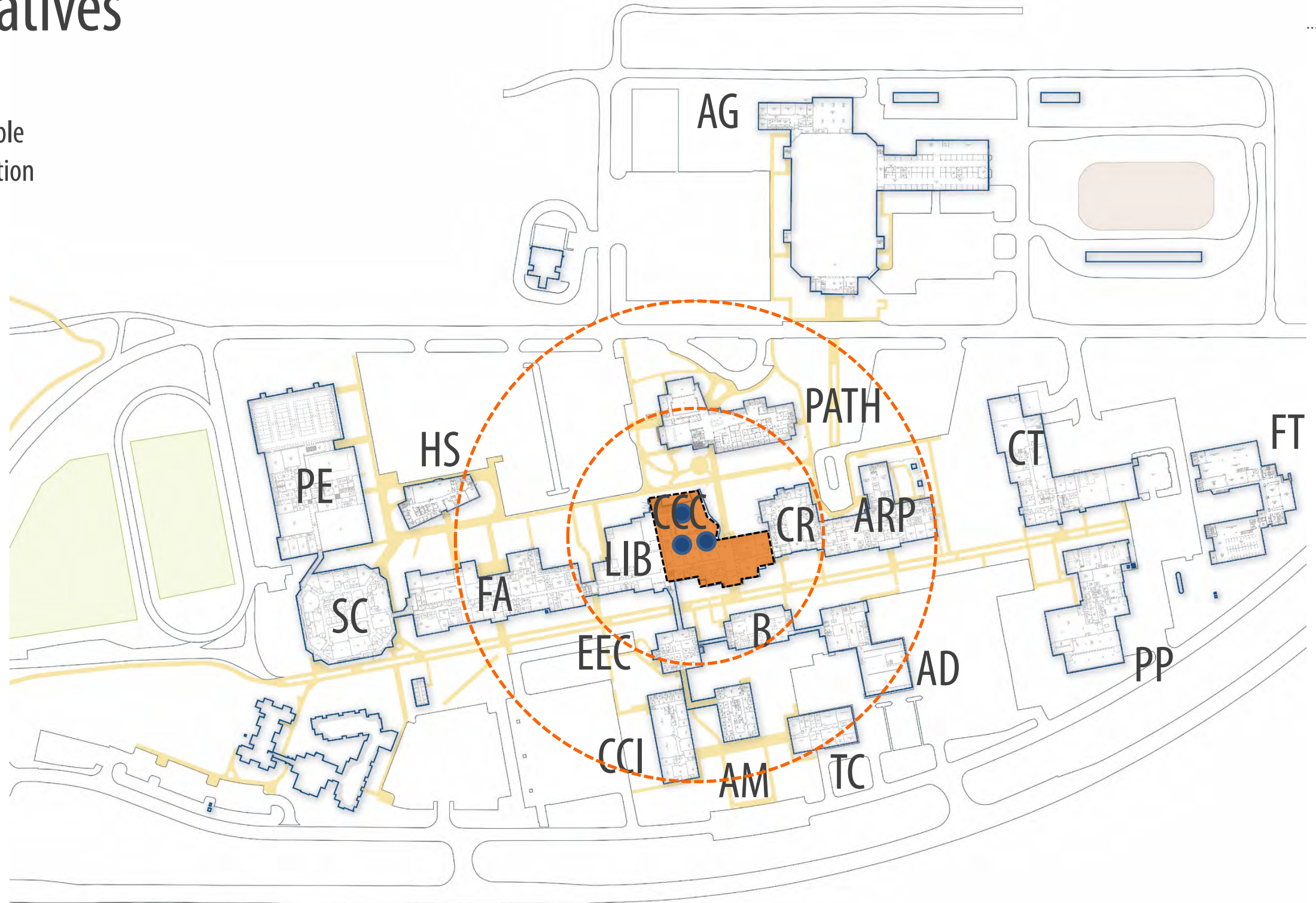
- | | | | | |
|-----------|-------------------|---------------------|-------------------------|------------------|
| ● Science | ● Student Life | ● Career/Technology | ● Business | ● Agriculture |
| ● Arts | ● General Studies | ● Flex. Tech | ● Automotive Technology | ● Administration |

Master Plan Initiatives

New Student Forum

Develop new student hub with flexible spaces focused on student collaboration and engagement spaces

- Student Collaboration
- Dining
- Student Organizations
- Pre-Function areas
- Social spaces
- Pantry



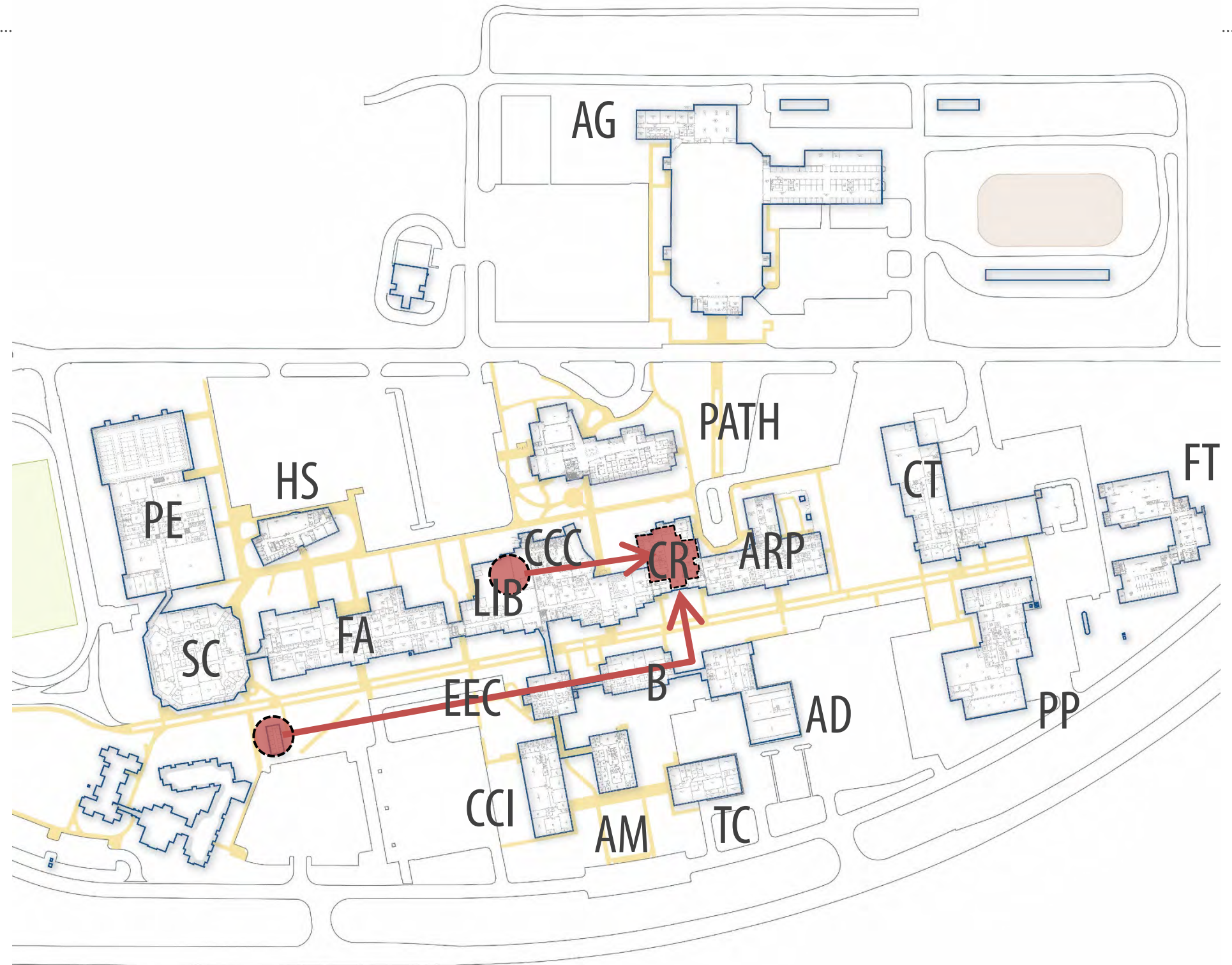
Master Plan Initiatives

Student Success Center

Consolidate student success programs into vacated spaces of the Crossroads building

Potential Fill Programs:

- E-Learning Collaborative Center
- Student Life and Engagement
- Center for Secondary Students (High School Programs)
- Student Veterans/Family Center



Master Plan Initiatives

Site Improvements

Continue site based campus initiatives to improve the campus character and aesthetic

Initiatives include:

- Open space and landscape enhancements
- Develop the Loop Road as campus street
- Signage and wayfinding enhancements
- Develop plaza nodes near primary building entrances



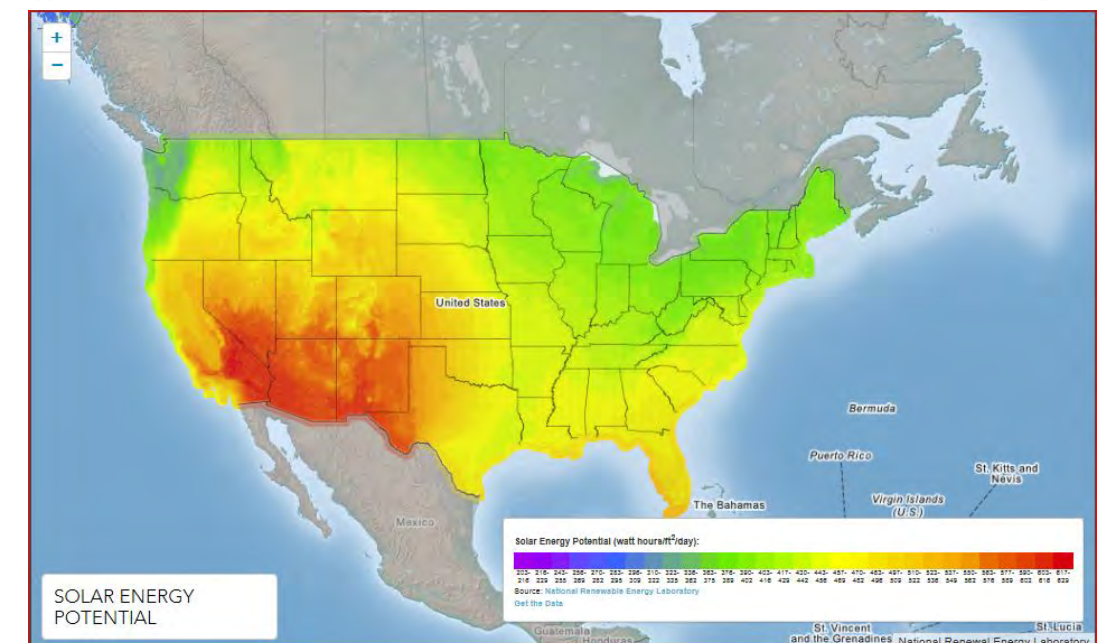
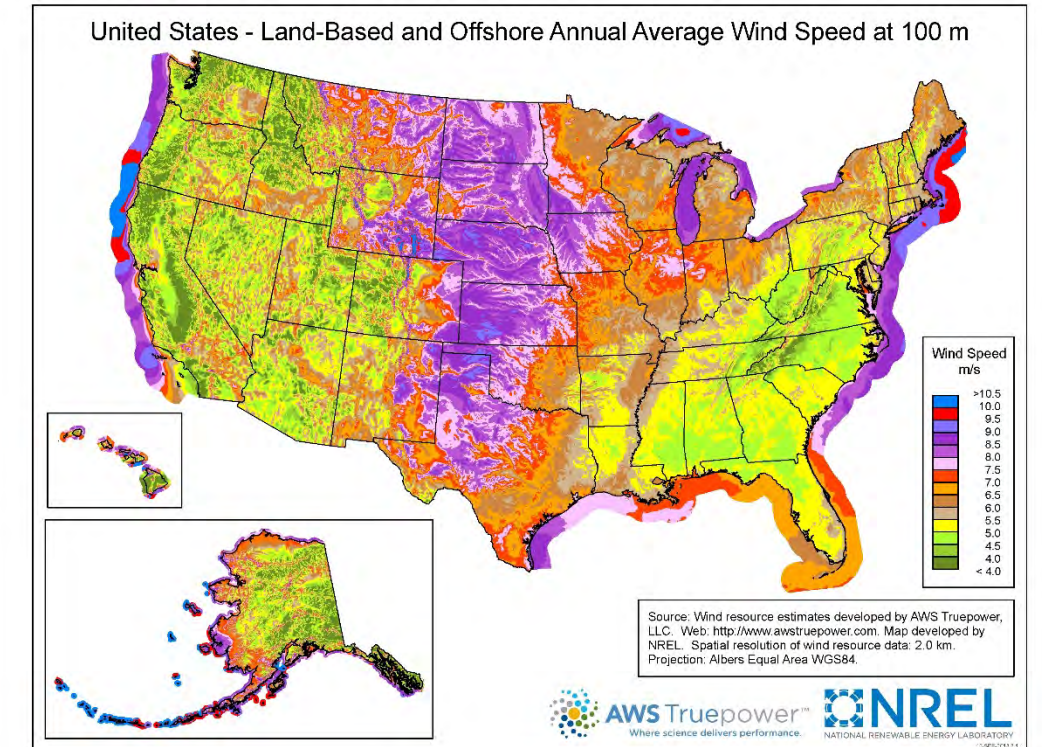
Master Plan Initiatives

Sustainability

Implement strategic initiatives to forward a sustainable campus model

Initiatives include:

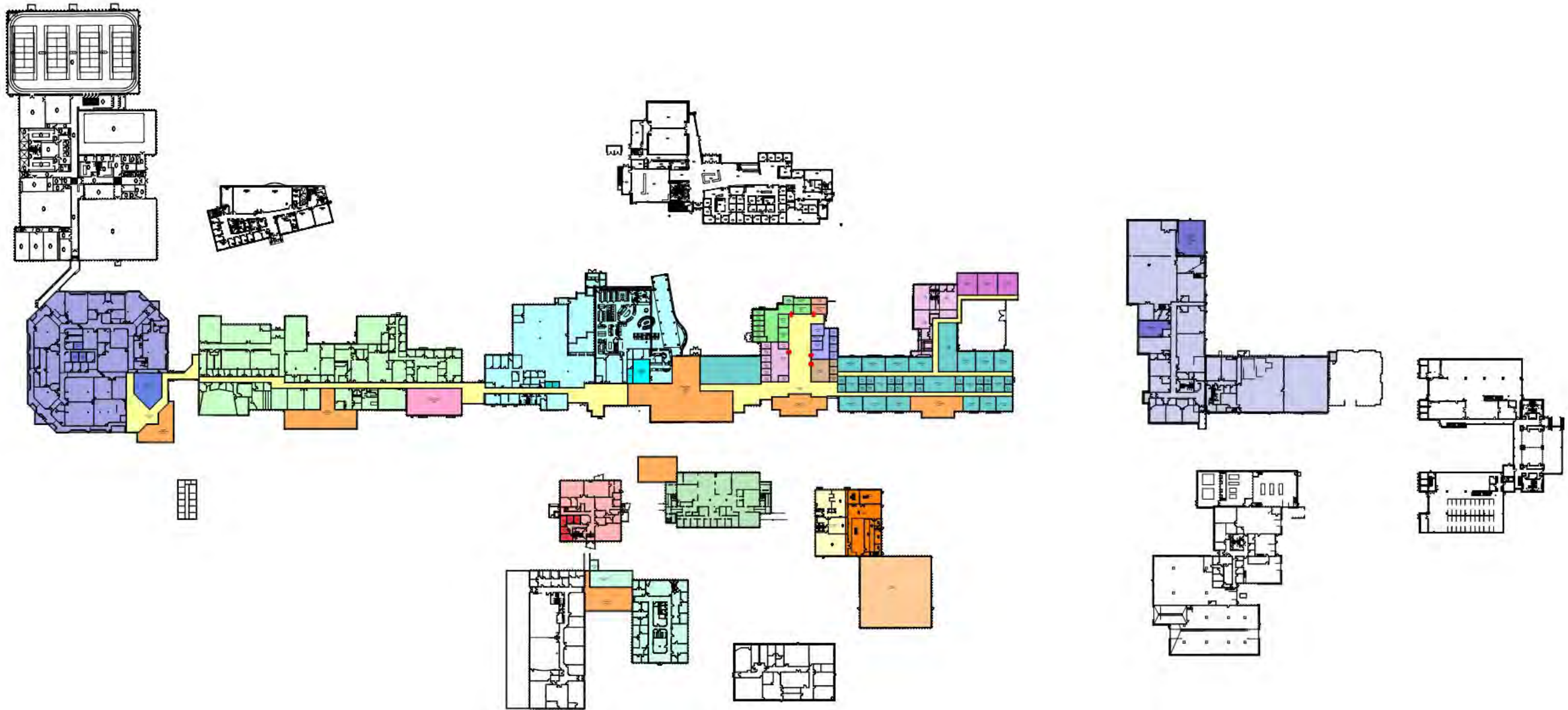
- High-efficiency buildings (new construction, LEED)
- Solar, wind energy (on/off-site)
- Low water/maintenance landscape
- Water reuse
- Stormwater BMPs
 - Stormwater detention/raingardens
 - Infiltration bioswales in parking lots



Space Backfill Strategies



Diagrammatic Program Neighborhoods Composite Improvement Plan



Program Neighborhoods – Science (Science Center (SC))

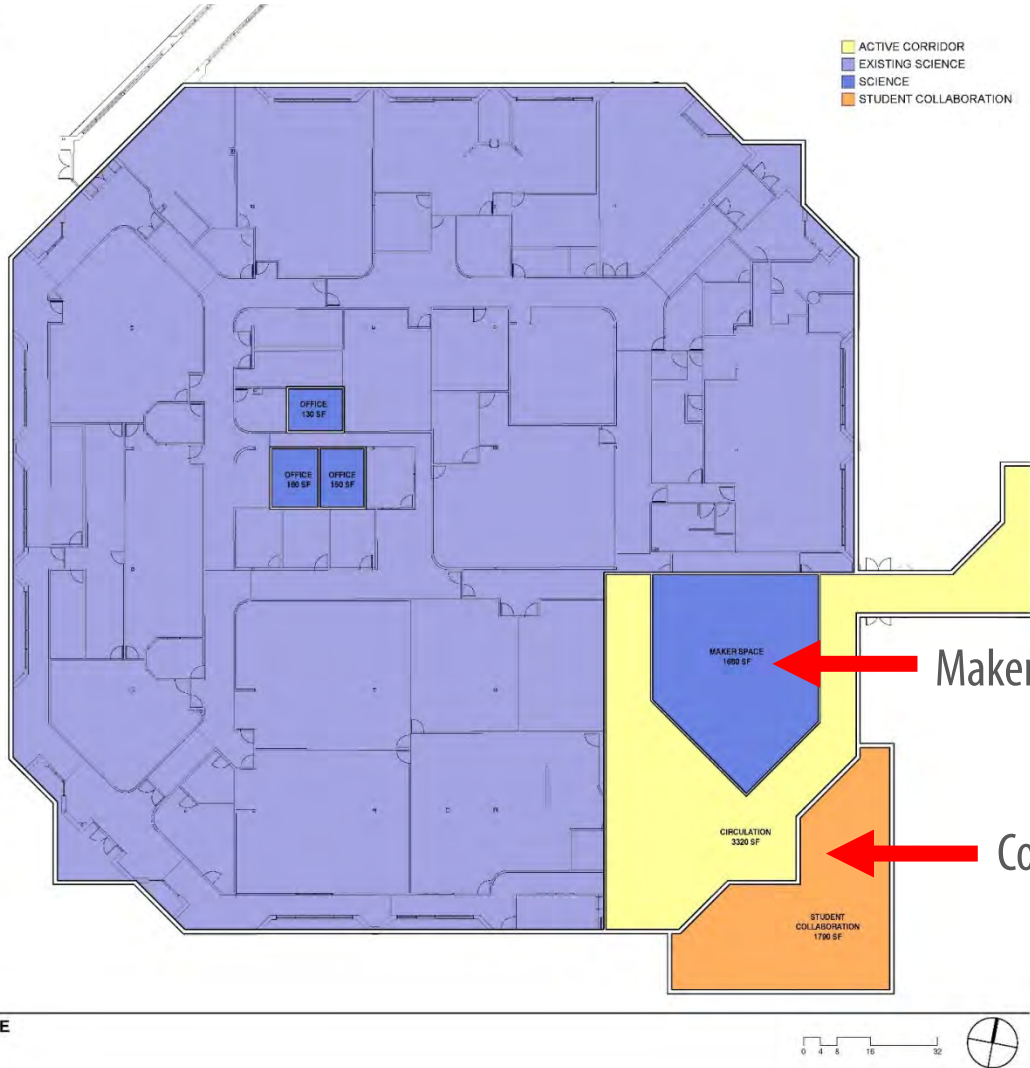
Science Neighborhood

- Maker space in southeast corner
- Student collaboration space addition



Maker Space

SCIENCE NEIGHBORHOOD



Maker space

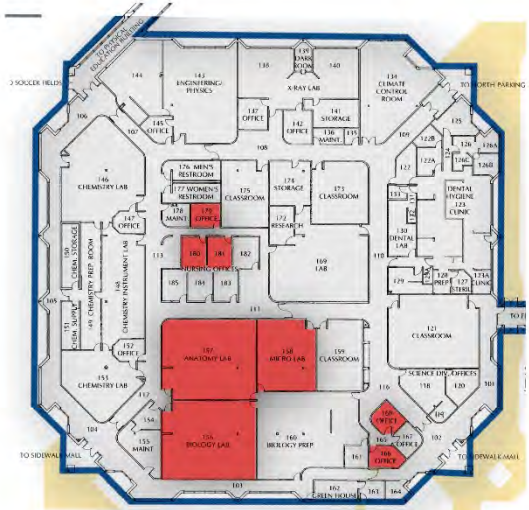
Collaboration addition

LARAMIE COUNTY COMMUNITY COLLEGE



- Science Center
Space Use
- Assembly & Exhibit
 - Central Computer
 - Child Care Center
 - Classroom & Service
 - Equine Agricultural Center
 - Learning Commons/Library
 - Nonassignable
 - Offices & Service
 - Open Laboratories & Service
 - Other Department Space
 - Outside Organizations
 - PE, Recreation, & Athletics
 - Physical Plant
 - Residence Life
 - Student Center
 - Student Social & Study
 - Student Success
 - Teaching Laboratories & Service

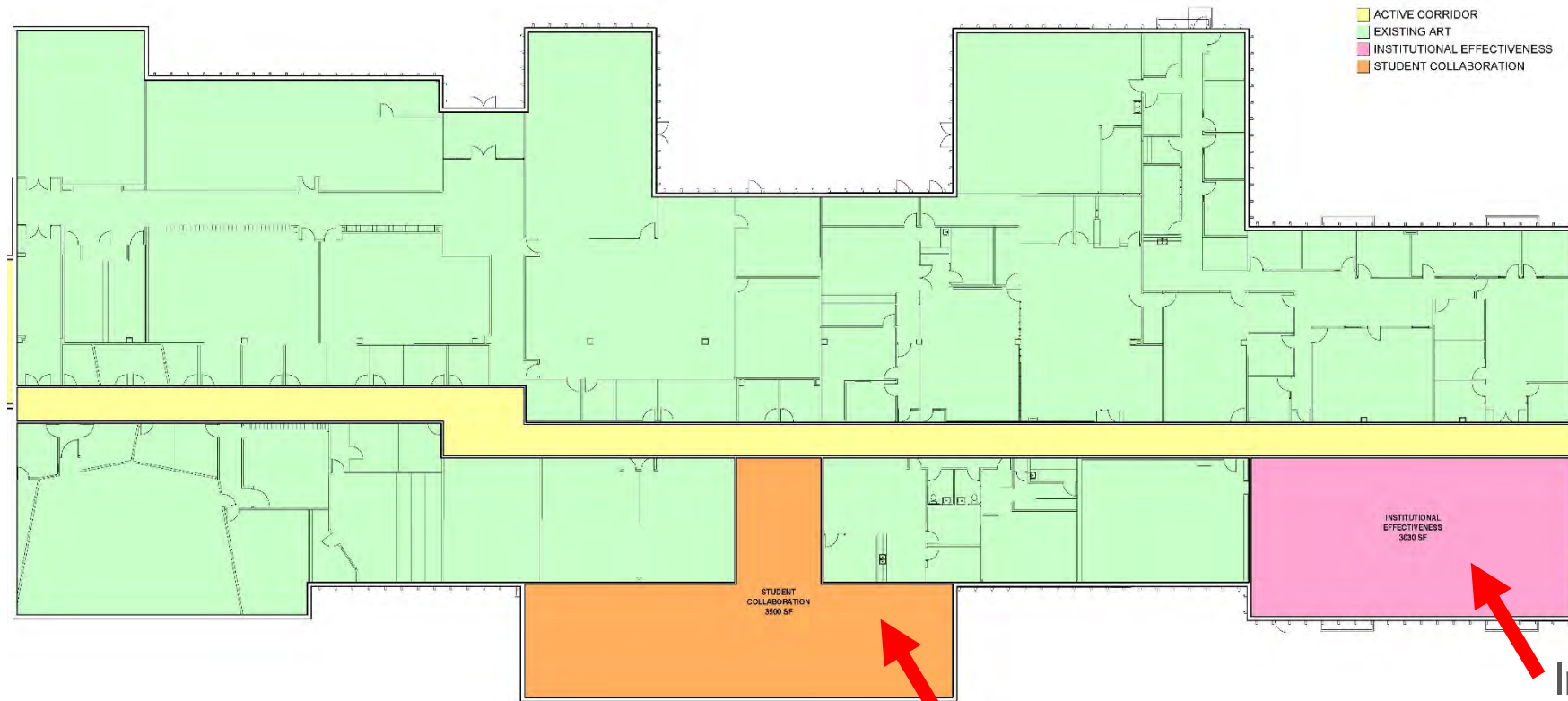
- Science Center
- Vacated Room



Program Neighborhoods – Art (Fine Arts Building (FA))

Art Neighborhood

- Student collaboration space at entrance
 - Institutional effectiveness consolidates
 - Future internal renovations to west side of Fine Arts
- Arts



LARAMIE COUNTY COMMUNITY COLLEGE

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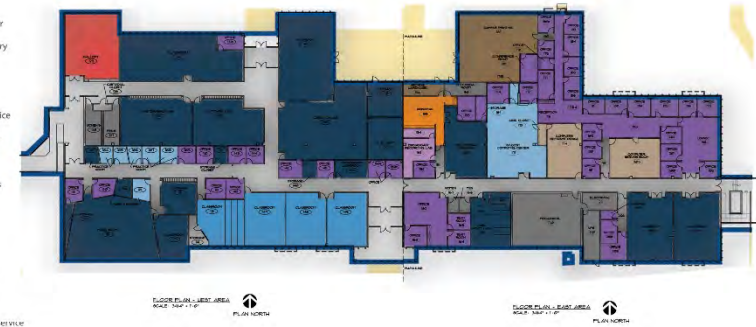


Fine Arts Space Use

- Assembly & Exhibit
- Central Computer
- Child Care Center
- Classroom & Service
- Equine Agricultural Center
- Learning Commons/Library
- Nonassignable
- Offices & Service
- Open Laboratories & Service
- Other Department Space
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Fine Arts

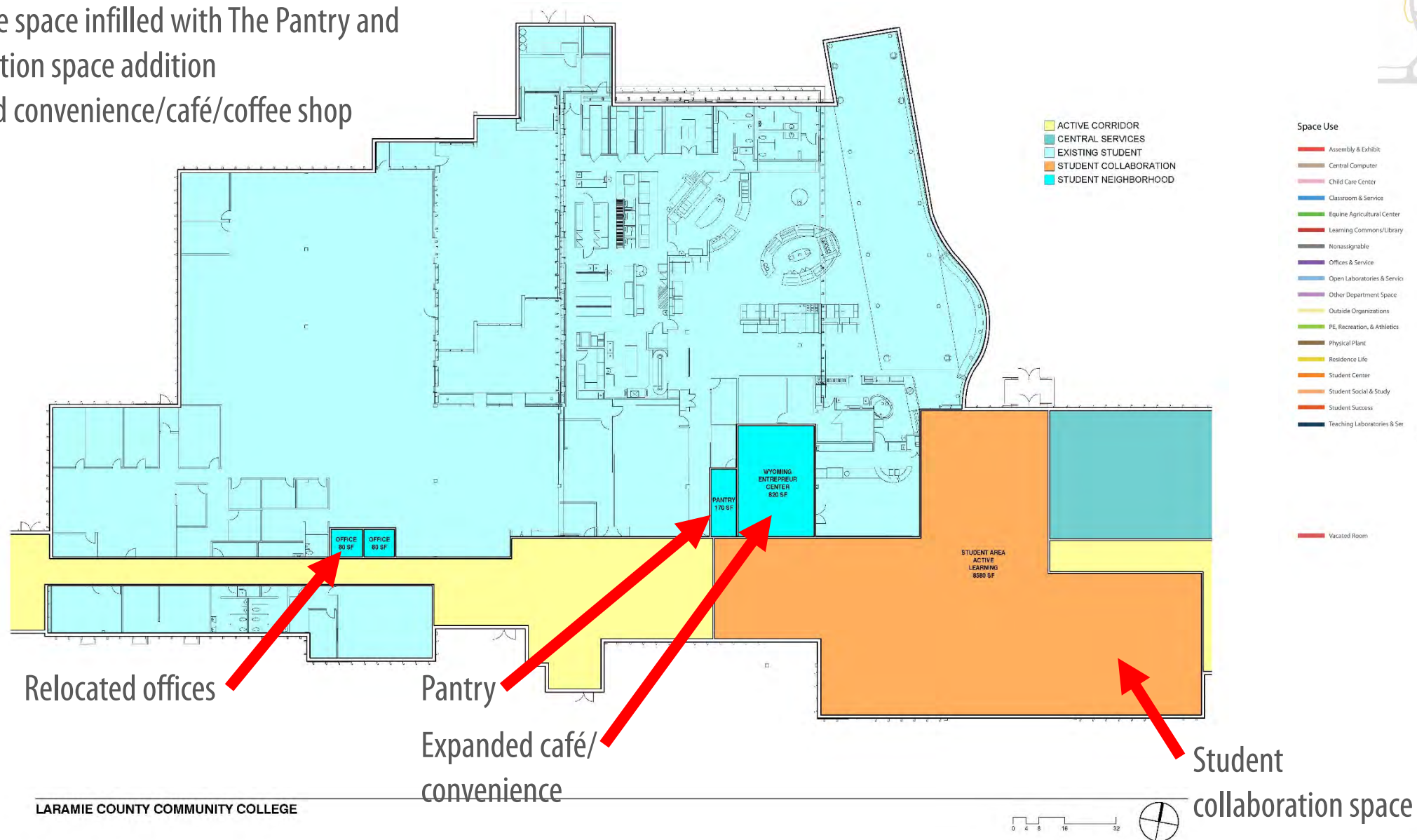
- Vacated Room



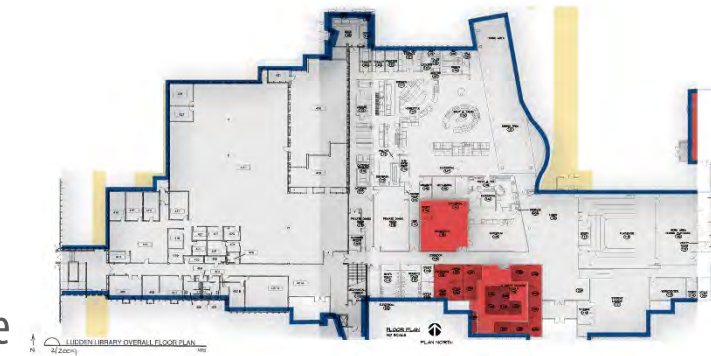
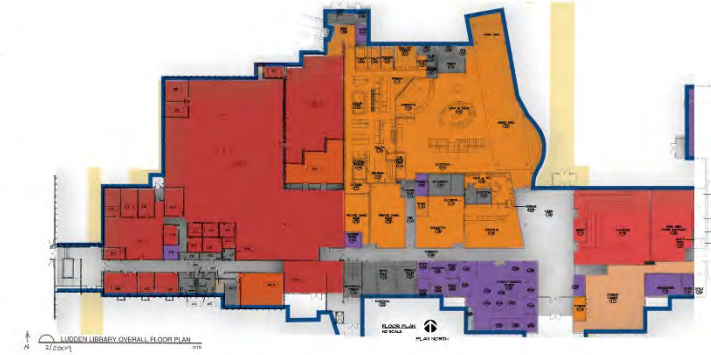
Program Neighborhoods – Student Life (LIB + CCC)

Student Life Neighborhood

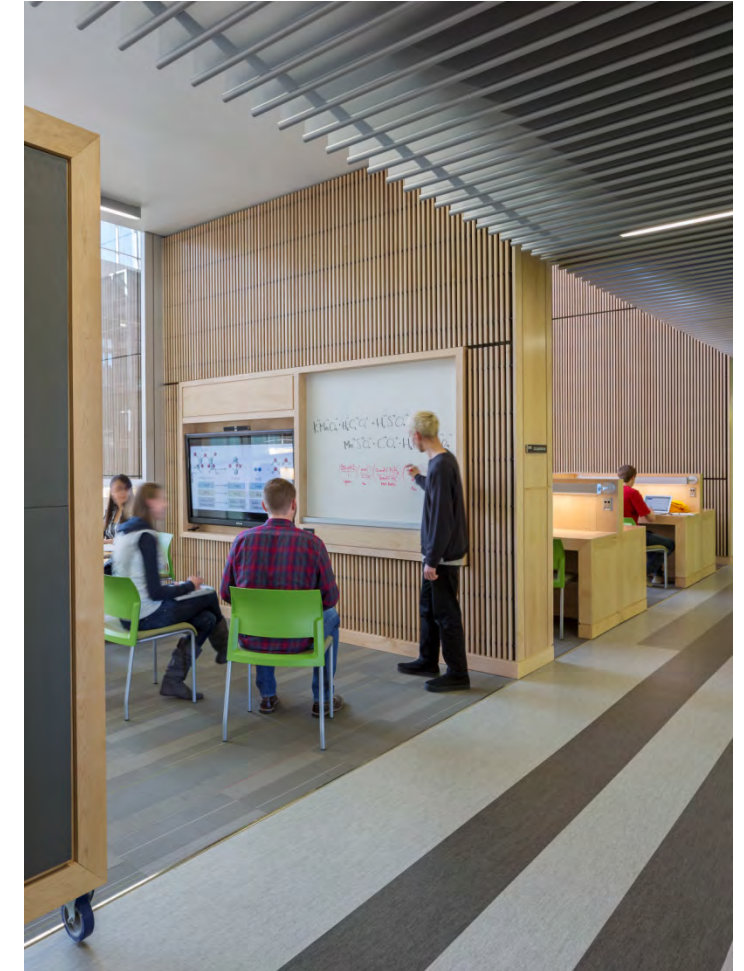
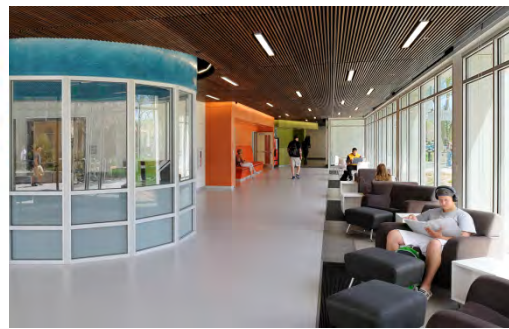
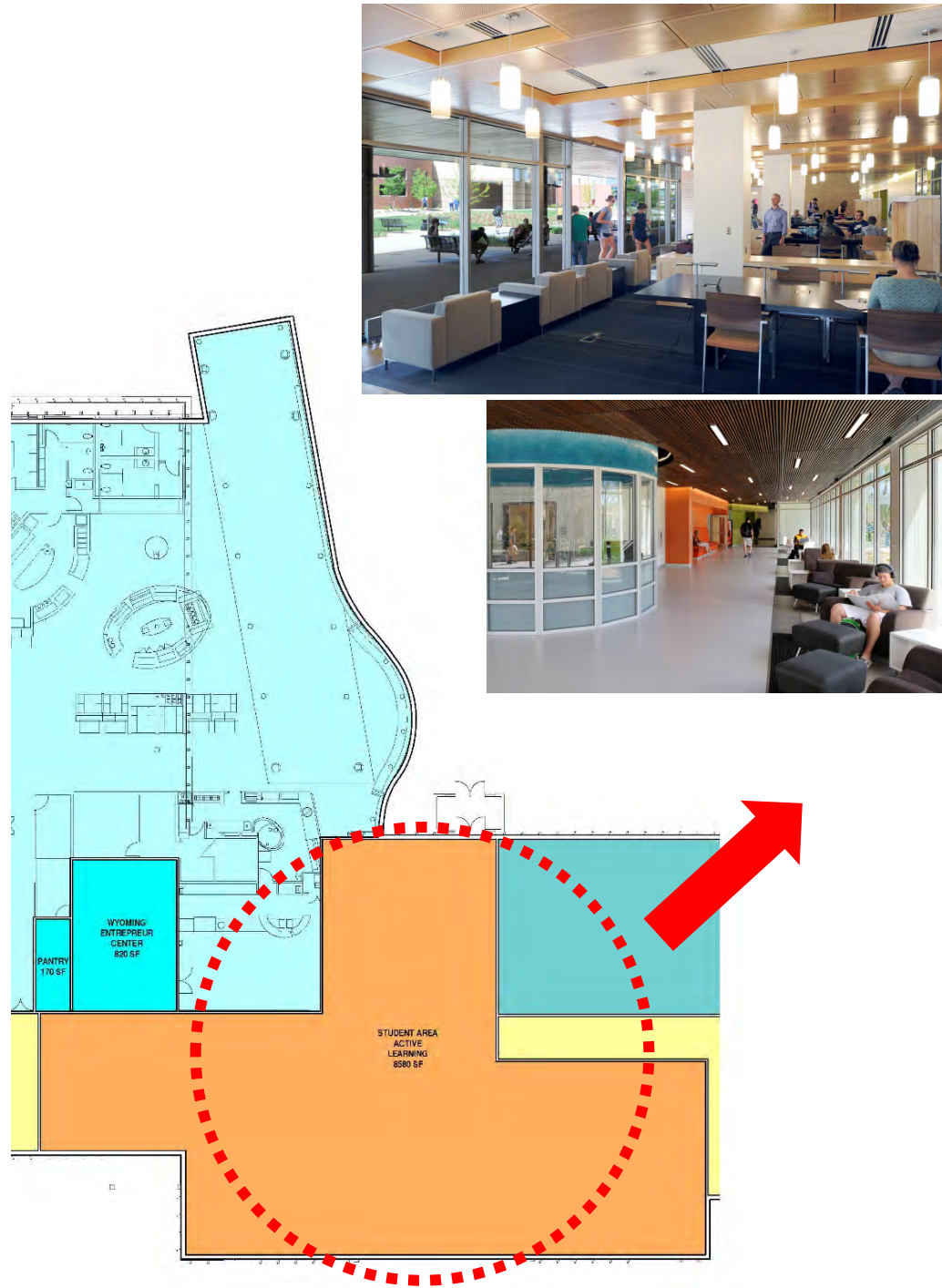
- Bookstore space infilled with The Pantry and collaboration space addition
- Expanded convenience/café/coffee shop



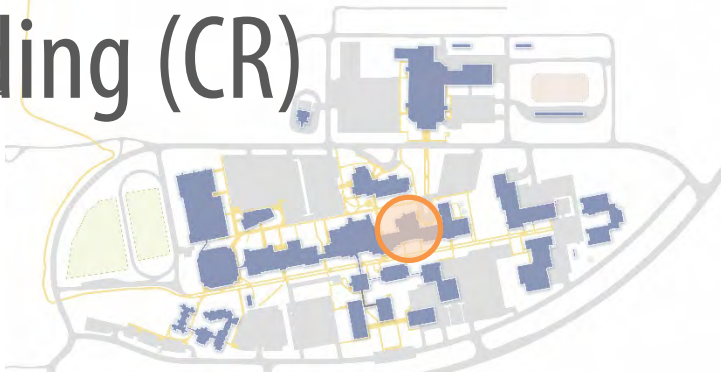
- Space Use
- Assembly & Exhibit
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 - Nonassignable
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 - Open Laboratories & Service
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 - PE, Recreation, & Athletics
 - Physical Plant
 - Residence Life
 - Student Center
 - Student Social & Study
 - Student Success
 - Teaching Laboratories & Ser
- Vacated Room



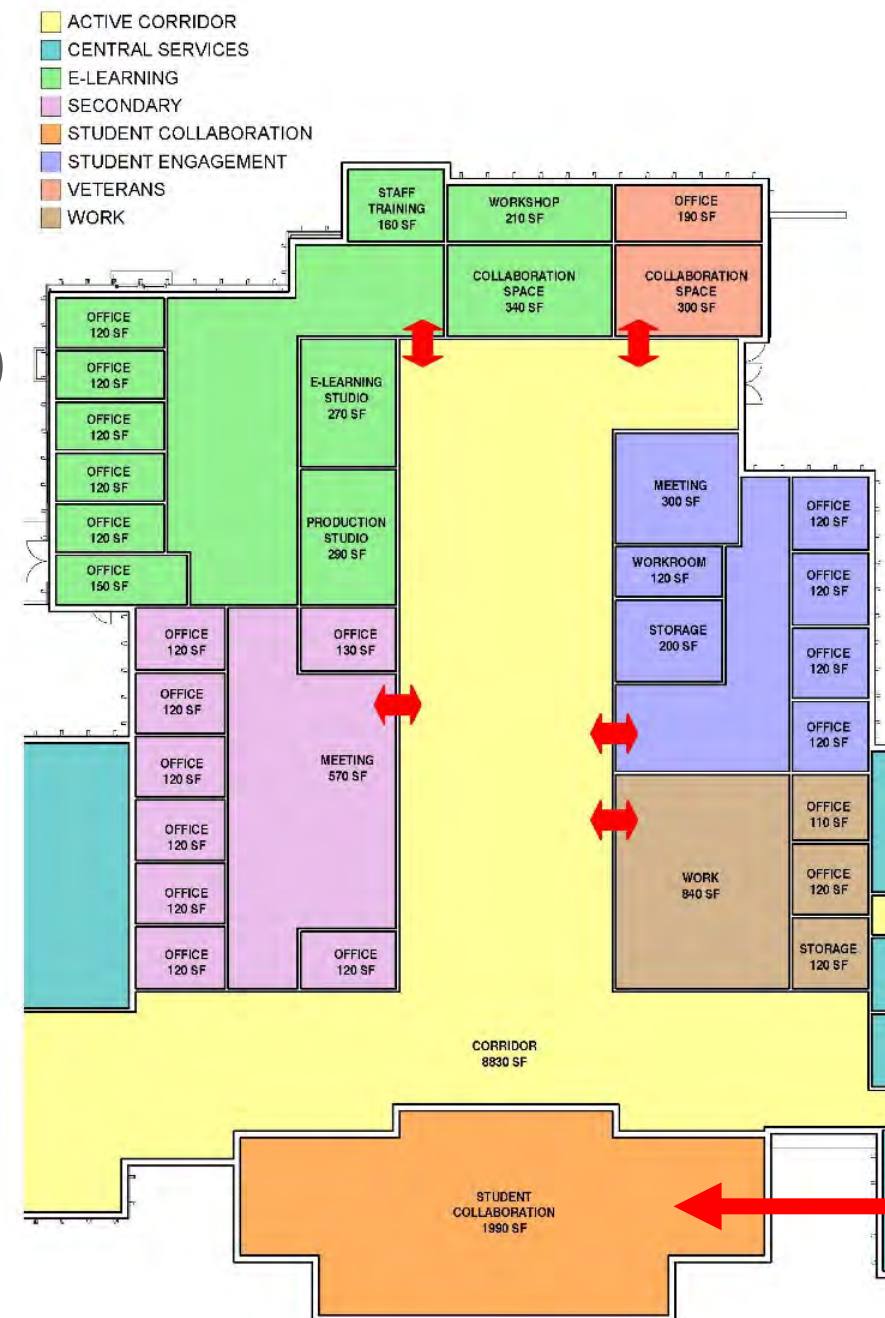
Active learning Environments



ding (CR)

A stylized map of a campus. Buildings are represented by blue and grey shapes. Roads are shown as yellow lines. Green spaces are shown as light green areas. A specific building in the center is highlighted with an orange circle. The text "ding (CR)" is written in large black letters at the top left.

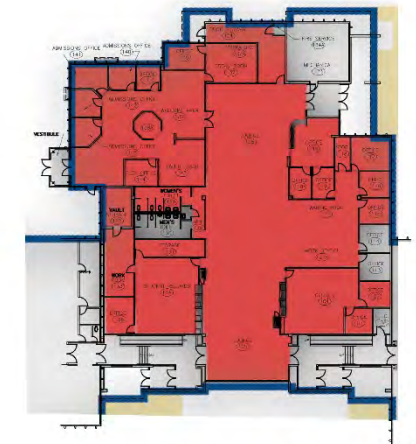
- Public Access
- Identity Off Central Mall
- Potential Programs include:
 - E-Learning
 - Secondary Students (Relocated from Modular)
 - Student Engagement
 - Veterans
 - Work Area Re-Located from Student Life



- Assembly & Exhibit
- Central Computer
- Child Care Center
- Classroom & Service
- Equine Agricultural Center
- Learning Commons/Library
- Nonassignable
- Offices & Service
- Open Laboratories & Service
- Other Department Space
- Outside Organizations
- PE, Recreation, & Athletics
- Physical Plant
- Residence Life
- Student Center
- Student Social & Study
- Student Success
- Teaching Laboratories & Service

 Vacated Room

- Collaboration addition



Program Neighborhood – Arp Building (ARP)

General Studies Neighborhood

- New Children's Development Center addition surrounding outdoor play yard
- Student collaboration space addition
- Reorganize ARP classrooms for more efficient layout



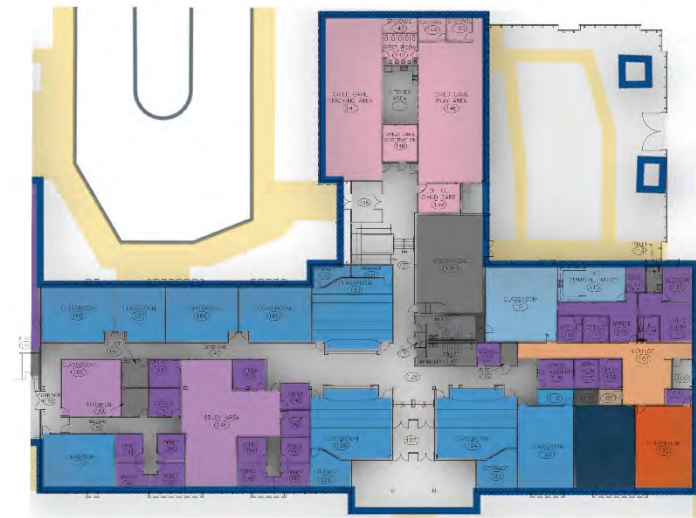
CDC Addition

ARP Building Space Use

- Assembly & Exhibit
- Central Computer
- Child Care Center
- Classroom & Service
- Equine Agricultural Center
- Learning Commons/Library
- Nonassignable
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- Open Laboratories & Service
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- Student Social & Study
- Student Success
- Teaching Laboratories & Service

ARP Building

- Vacated Room



FLOOR PLAN
SCALE: 3/8"=1'-0"
PLAN NORTH

Program Neighborhood – Career & Technical Building (CT)

Career Tech Neighborhood

- Wind Energy
- Plumbing Electrical HVAC Simulation Lab
- Swing Space on Second Level
- Electrical Closet Expansion
- ACES Program Expansion into vacated rooms



Career & Technical Building
Space Use

- Assembly & Exhibit
- Central Computer
- Child Care Center
- Classroom & Service
- Equine Agricultural Center
- Learning Commons/Library
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- Student Success
- Teaching Laboratories & Service



Career & Technical Building

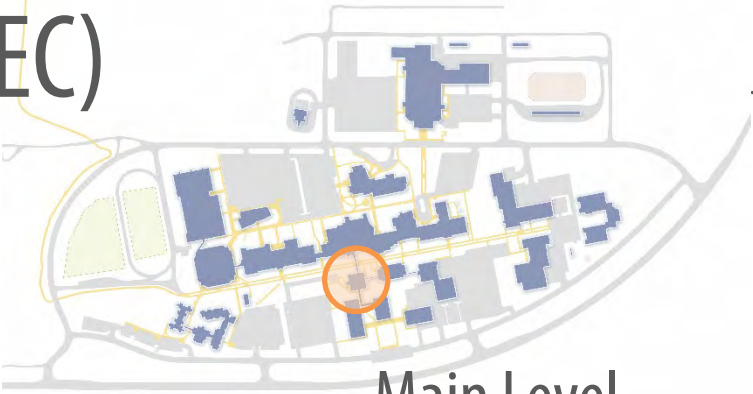
- Vacated Room



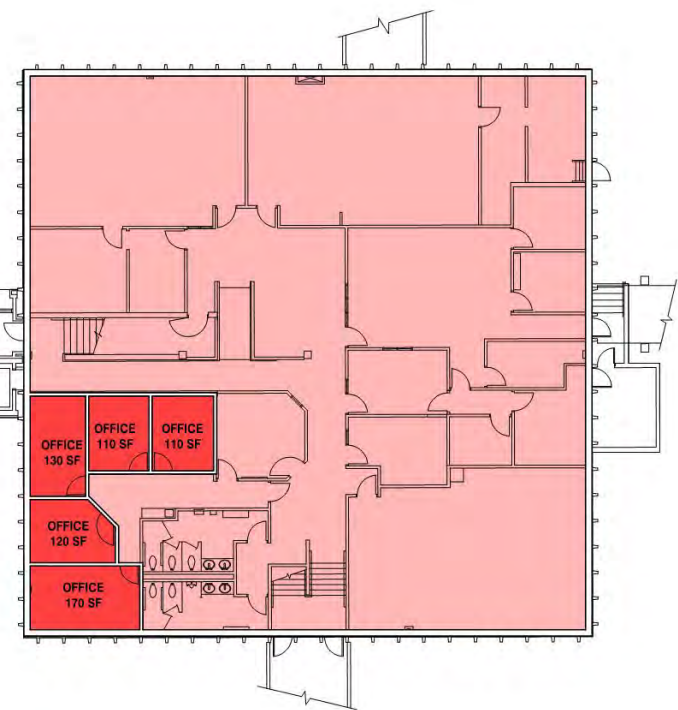
Program Neighborhood – Education & Enrichment Center (EEC)

EEC Neighborhood

- Consolidate/relocate Center for Teaching and Learning to vacated EEC space on Main Level
- Swing space or E-Learning Center on Lower Level

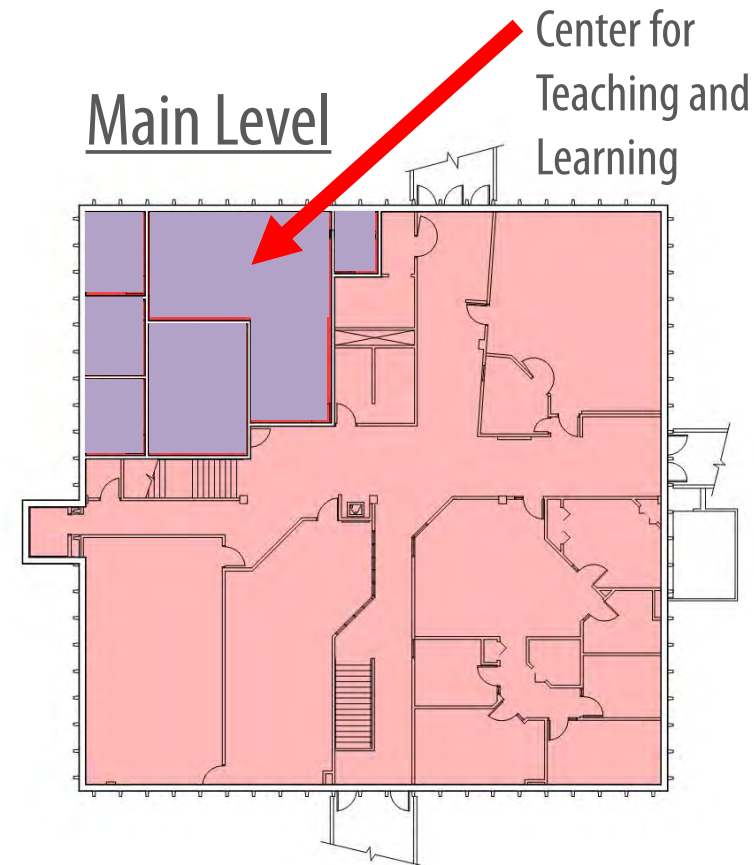


Lower Level



EDUCATION AND ENRICHMENT
SWING SPACE
CENTER FOR TEACHING AND LEARNING

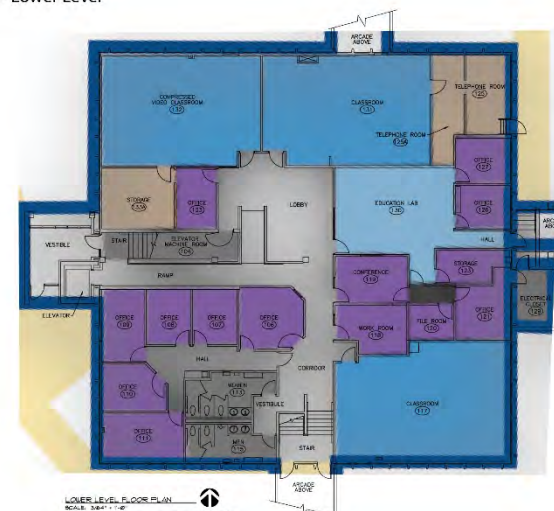
Main Level



Education & Enrichment Center - Lower Level
Space Use

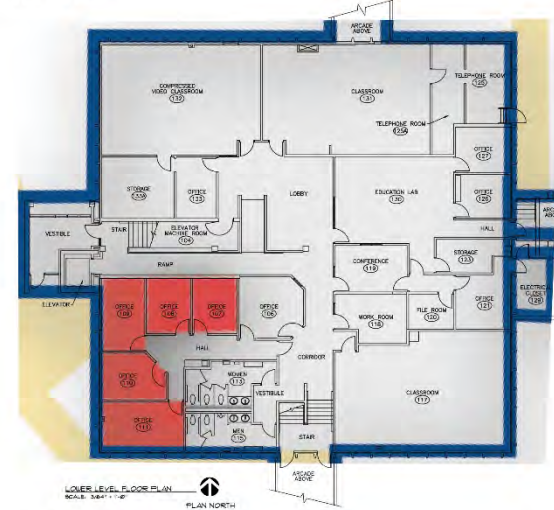
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- Teaching Laboratories & Service

Lower Level



Education & Enrichment Center - Lower Level

- Vacated Room

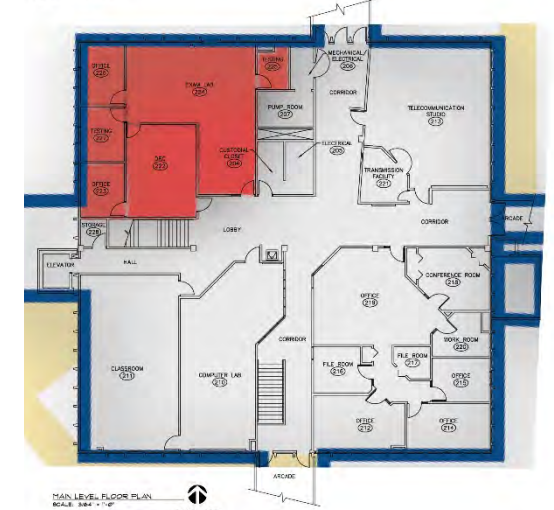


Main Level

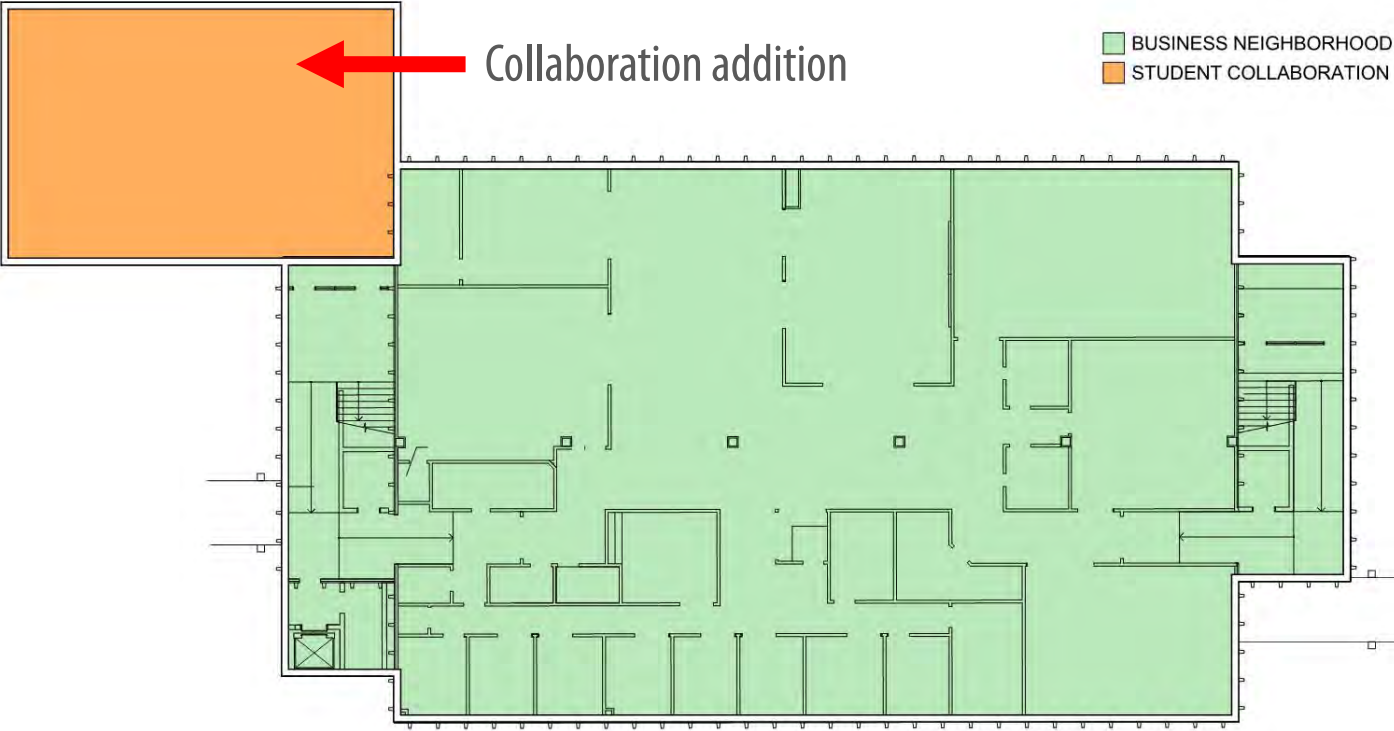
Upper Level



Upper Level

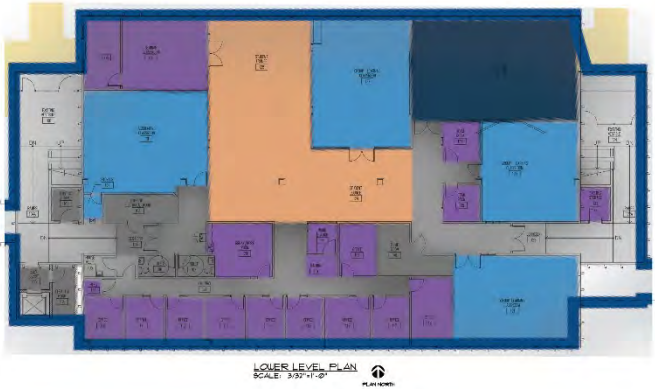


Program Neighborhood – Business & Technology Building (B)



Andrikopoulos Business & Technology Building - Lower Level
Space Use

- Assembly & Exhibit
- Central Computer
- Child Care Center
- Classroom & Service
- Equine Agricultural Center
- Learning Commons/Library
- Nonassignable
- Offices & Service
- Open Laboratories & Service
- Other Department Space
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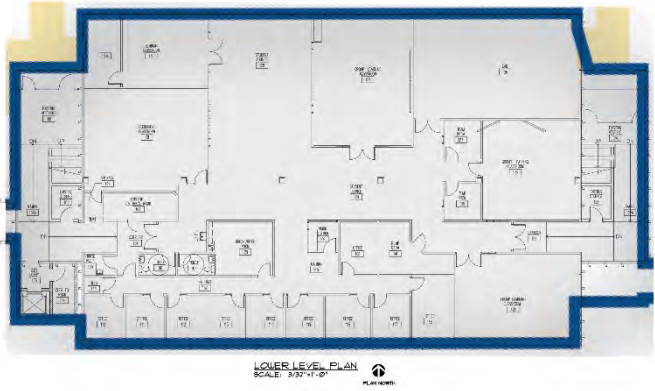


Technology Building - Upper Level



Andrikopoulos Business & Technology Building - Lower Level

- Vacated Room



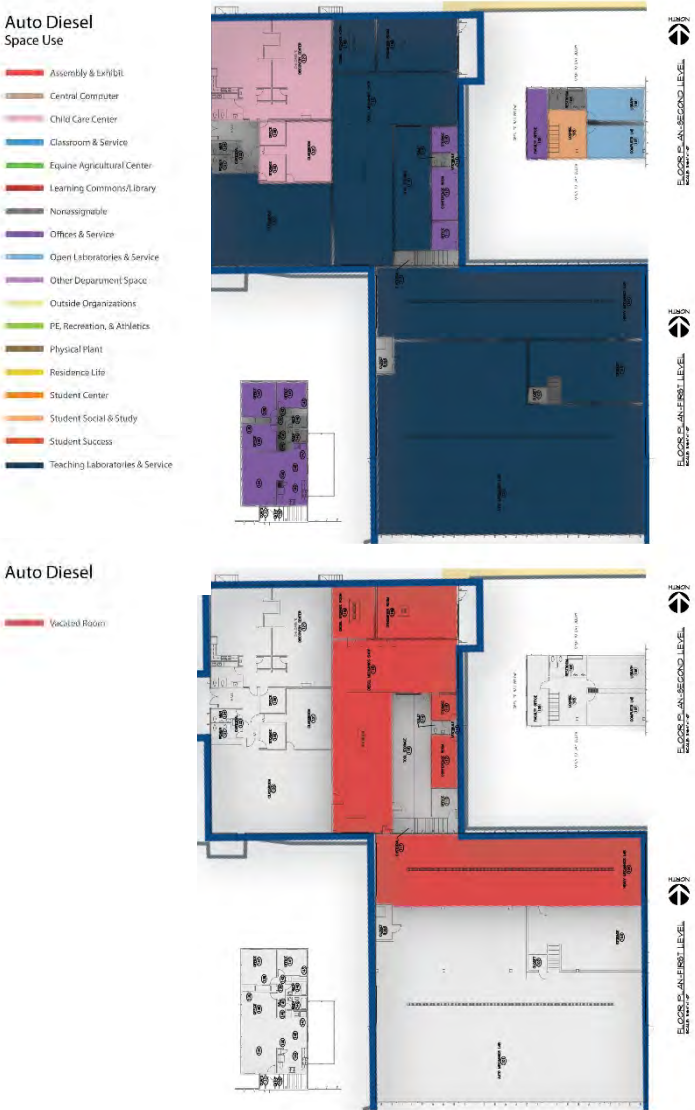
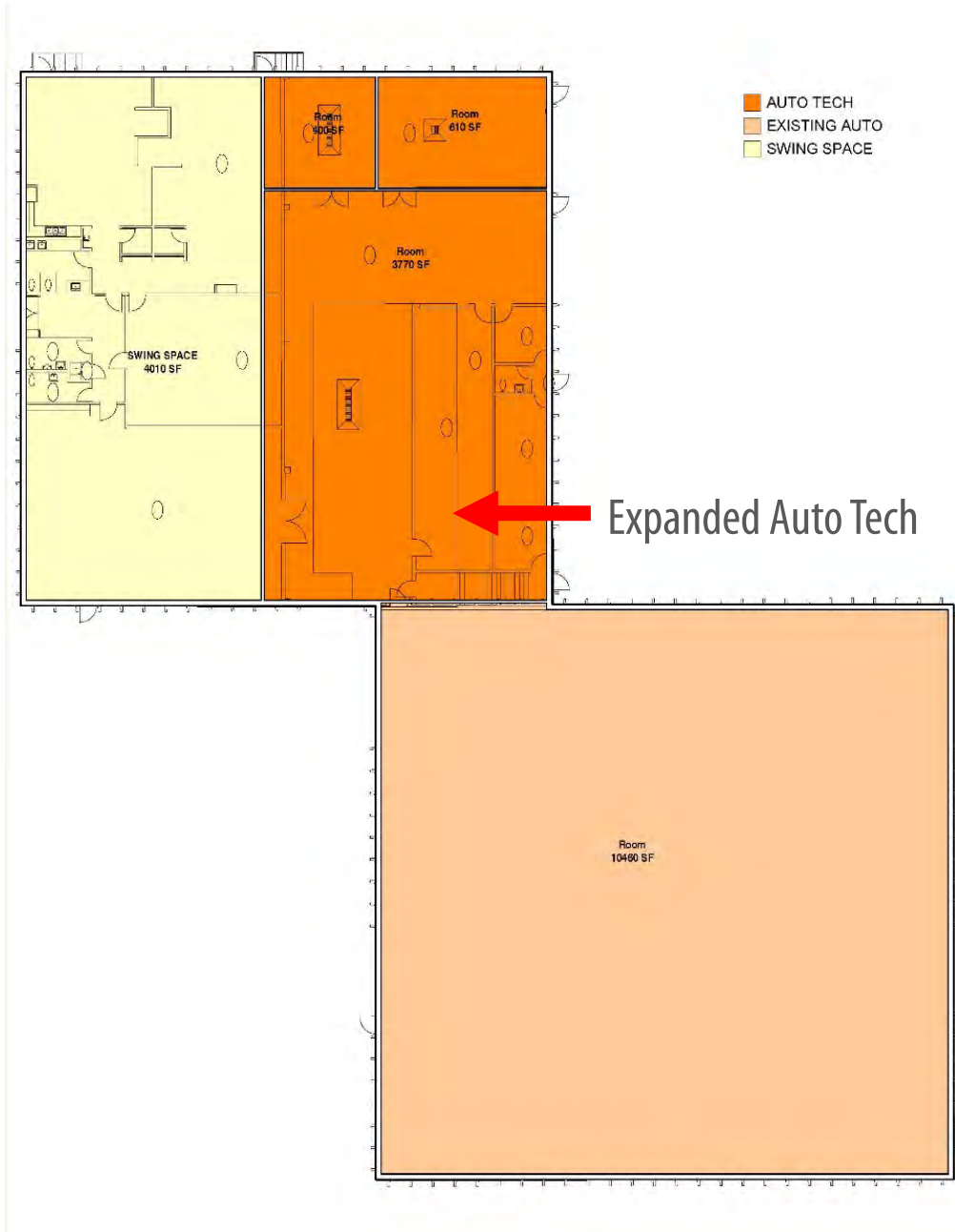
Technology Building - Upper Level



Program Neighborhood – Auto Diesel (AD)

Automotive Technology Neighborhood

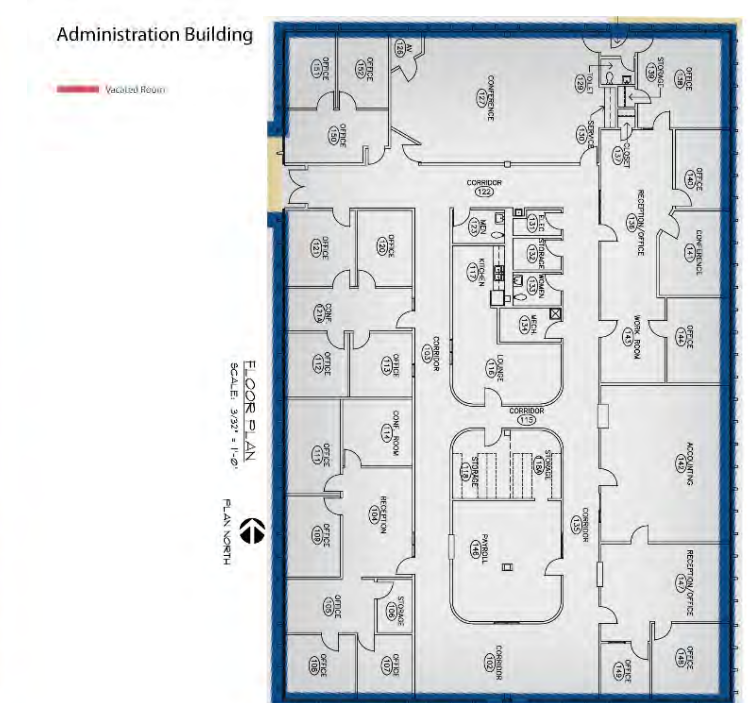
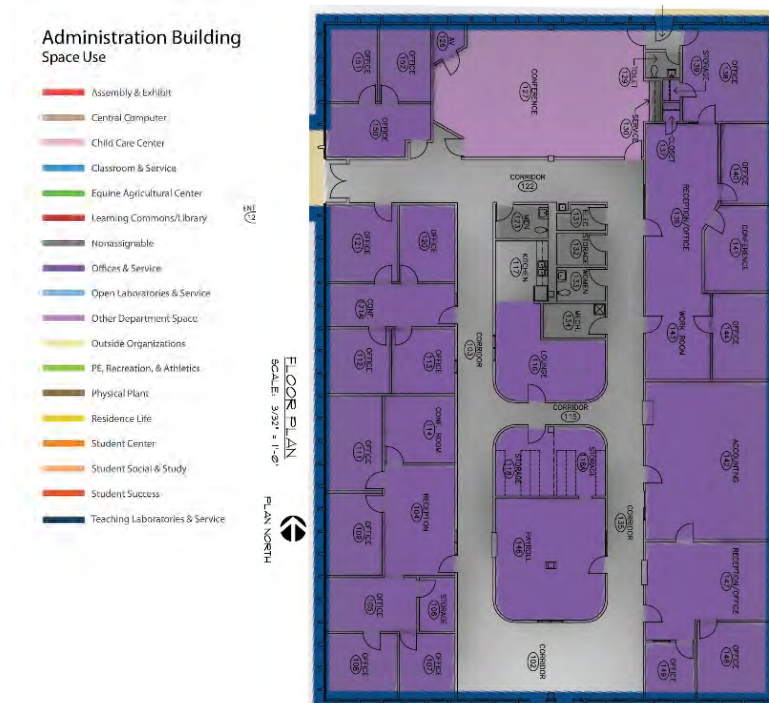
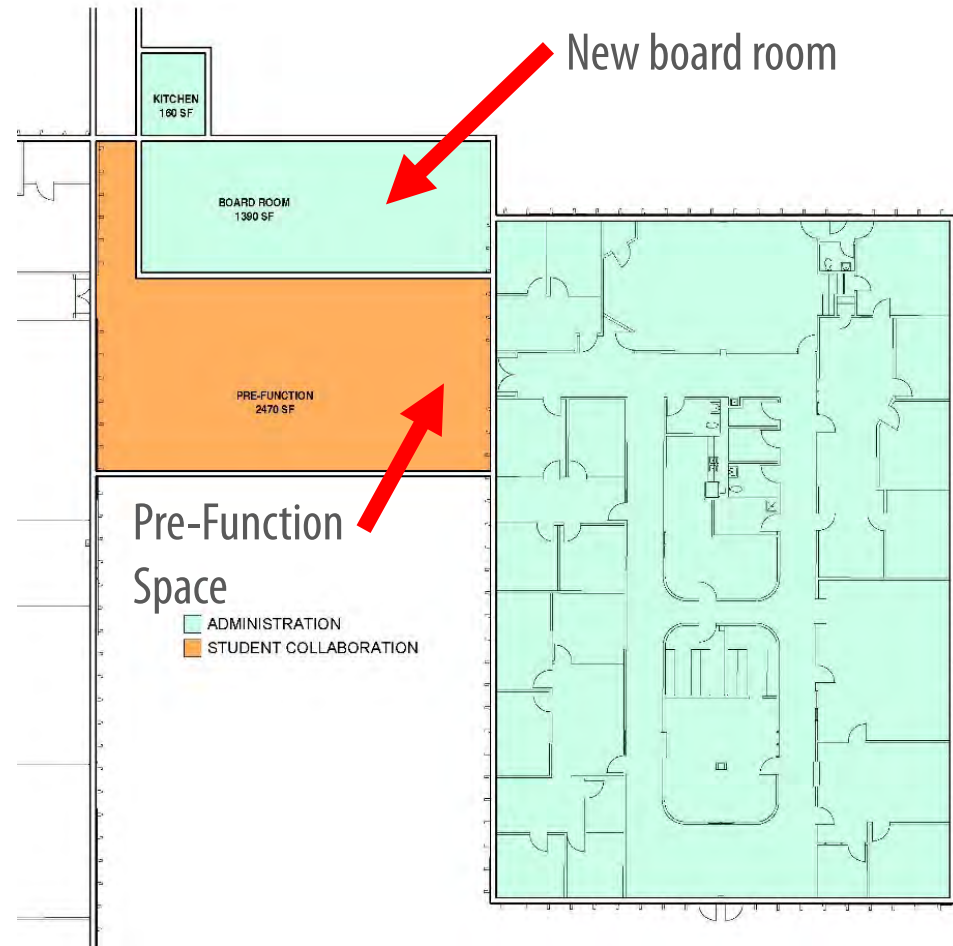
Children’s Development Center vacates classrooms,
leaving area for swing space
Auto Tech expands into vacated Auto Diesel space



Program Neighborhood – Administration (AM)

Administration Neighborhood

- New board room addition and pre-function area at breezeway
- Existing boardroom converted into meeting space/office



Site Scenarios



Site Plan – Option A

Development Summary

Proposed Academic Buildings

A: Performing Arts/Assembly
10,500 GSF

B: Children's Discovery Center
3,000 GSF

Proposed Additions

A: Science Center – 1,790 GSF

B: Fine Arts – 3,500 GSF

C: Student Services – 1,990 GSF

D: Business – 2,500 GSF

E: Board Room +

Pre-Function Area – 4,020 GSF

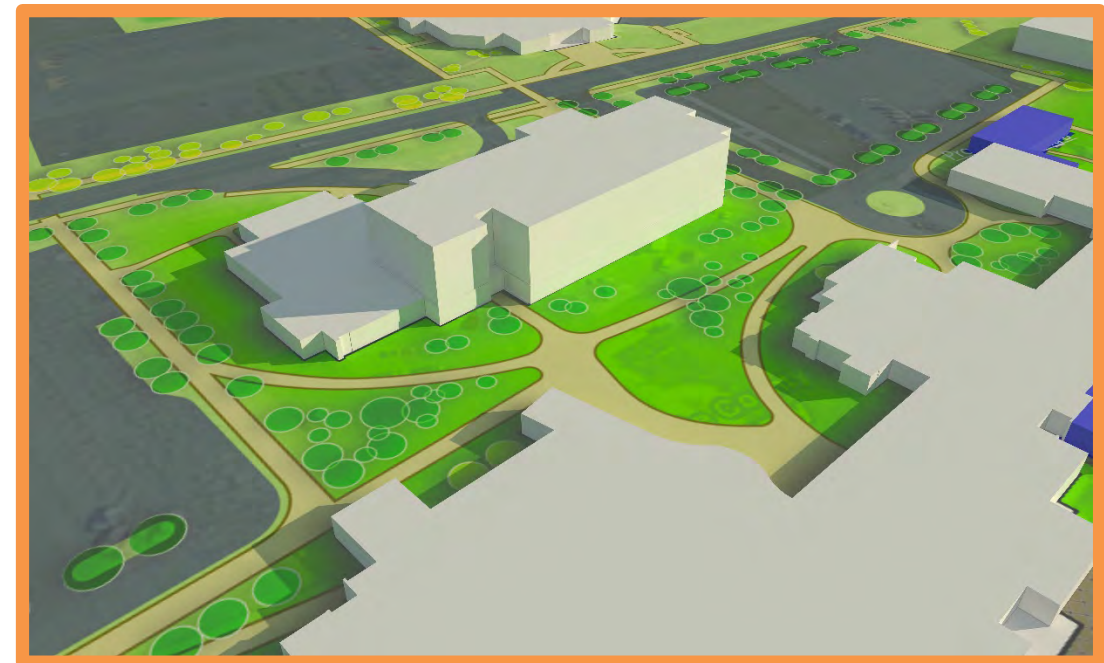
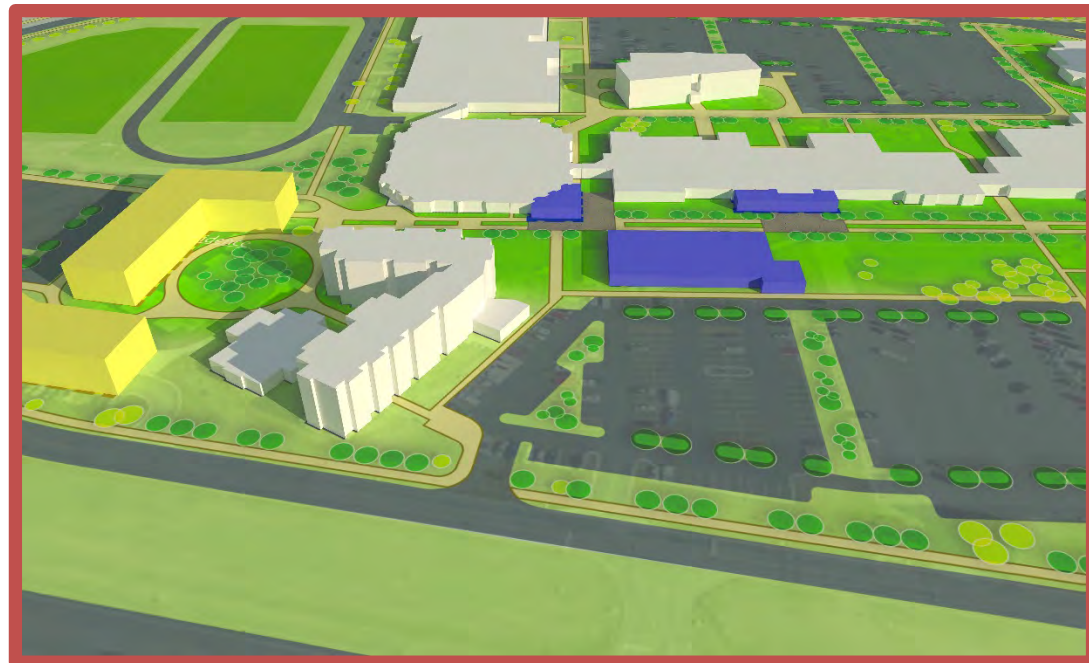
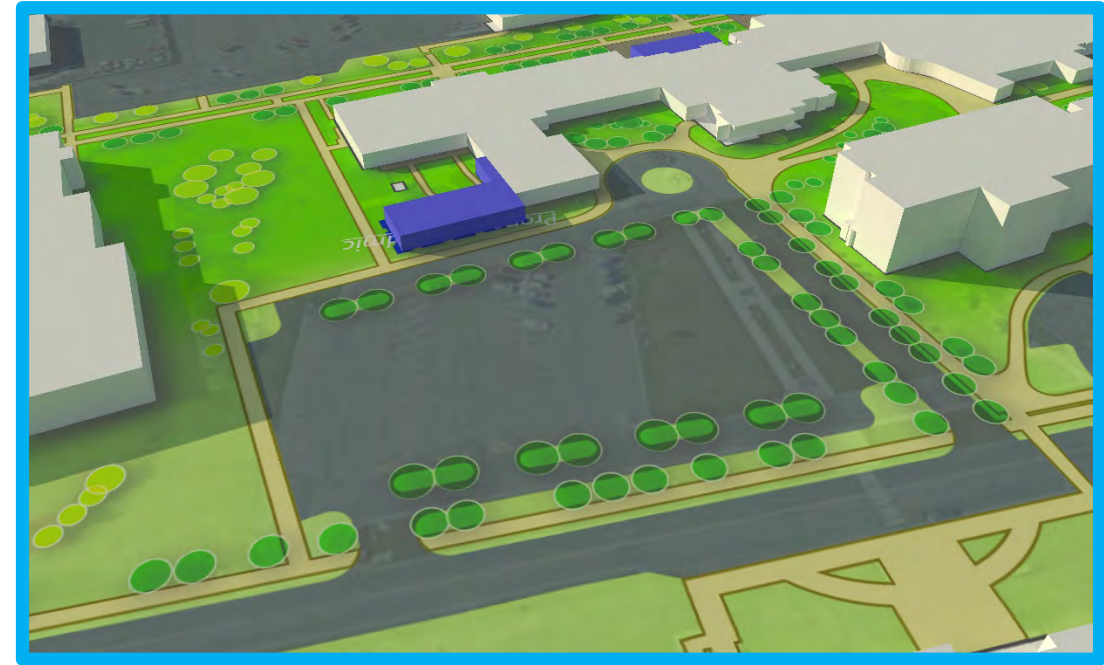
Proposed Residential: 91,200 GSF

A: 55,200 GSF
(18,400 GSF/FL @ 3 FL)

B: 36,000 GSF
(12,000 GSF/FL @ 3 FL)



Master Plan – Option A



Site Plan – Option B

Development Summary

Proposed Academic Buildings

A: Children's Discovery Center
3,000 GSF

Proposed Additions

A: Science Center – 1,790 GSF

B: Fine Arts – 3,500 GSF

C: Performing Arts/Assembly
– 10,500 GSF

D: Student Services – 1,990 GSF

E: Business – 2,500 GSF

Proposed Residential: 92,800 GSF

A: 12,000 GSF

(6,000 GSF/FL @ 2 FL)

B: 16,000 GSF

(8,000 GSF/FL @ 2 FL)

C: 32,400 GSF

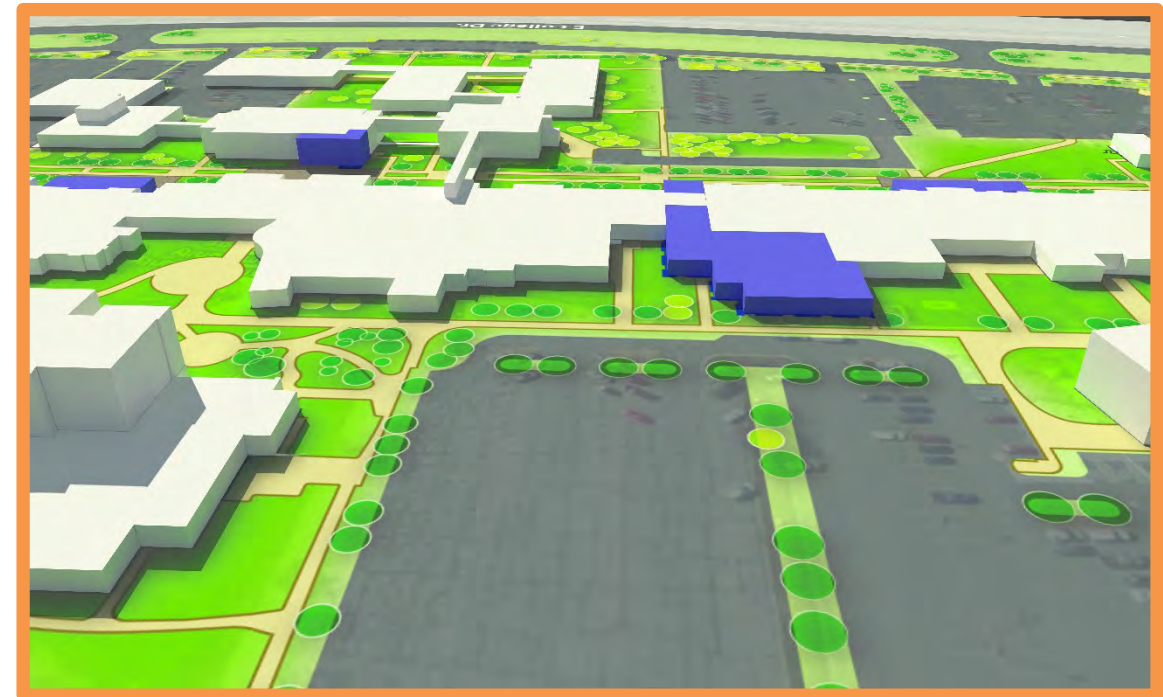
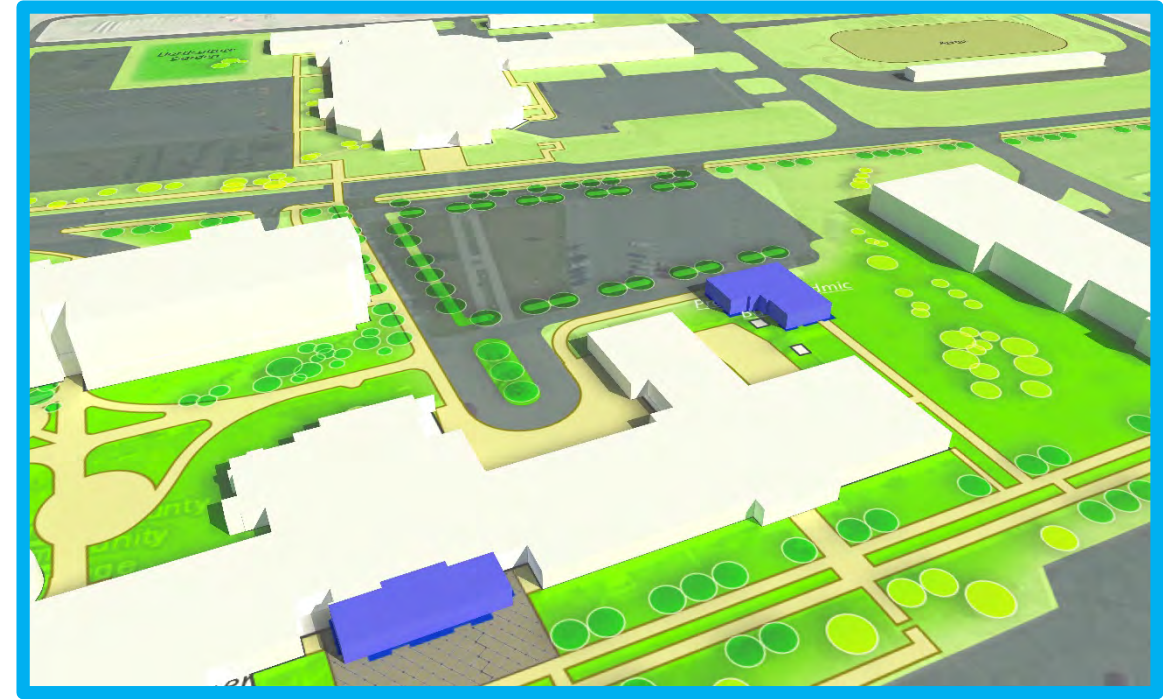
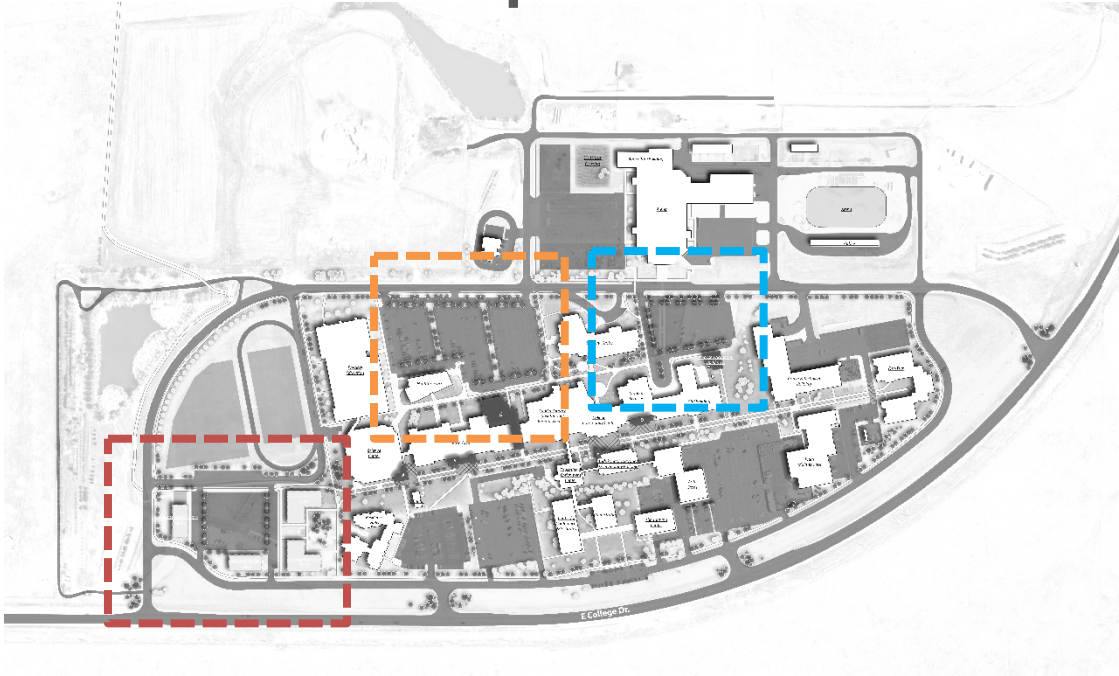
(10,800 GSF/FL @ 3 FL)

D: 32,400 GSF

(10,800 GSF/FL @ 3 FL)



Master Plan – Option B



Master Plan Systems

Open Space

- Pedestrian Mall
- Campus Quad
- Plaza/Node
- Athletics

Pedestrian Circulation

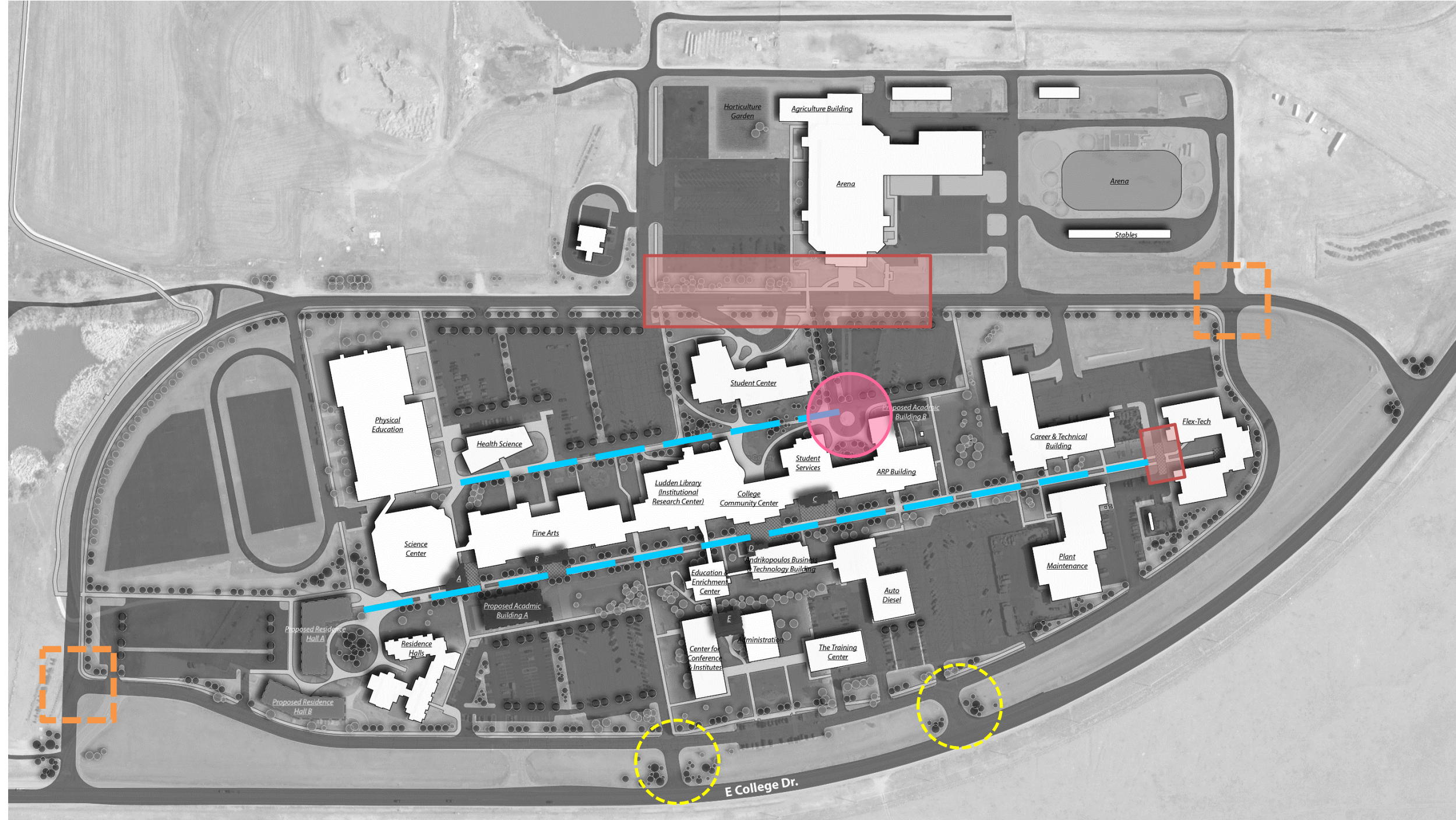
- Primary Pedestrian Paths
- Pedestrian Loop



Master Plan Systems

Vehicular Circulation

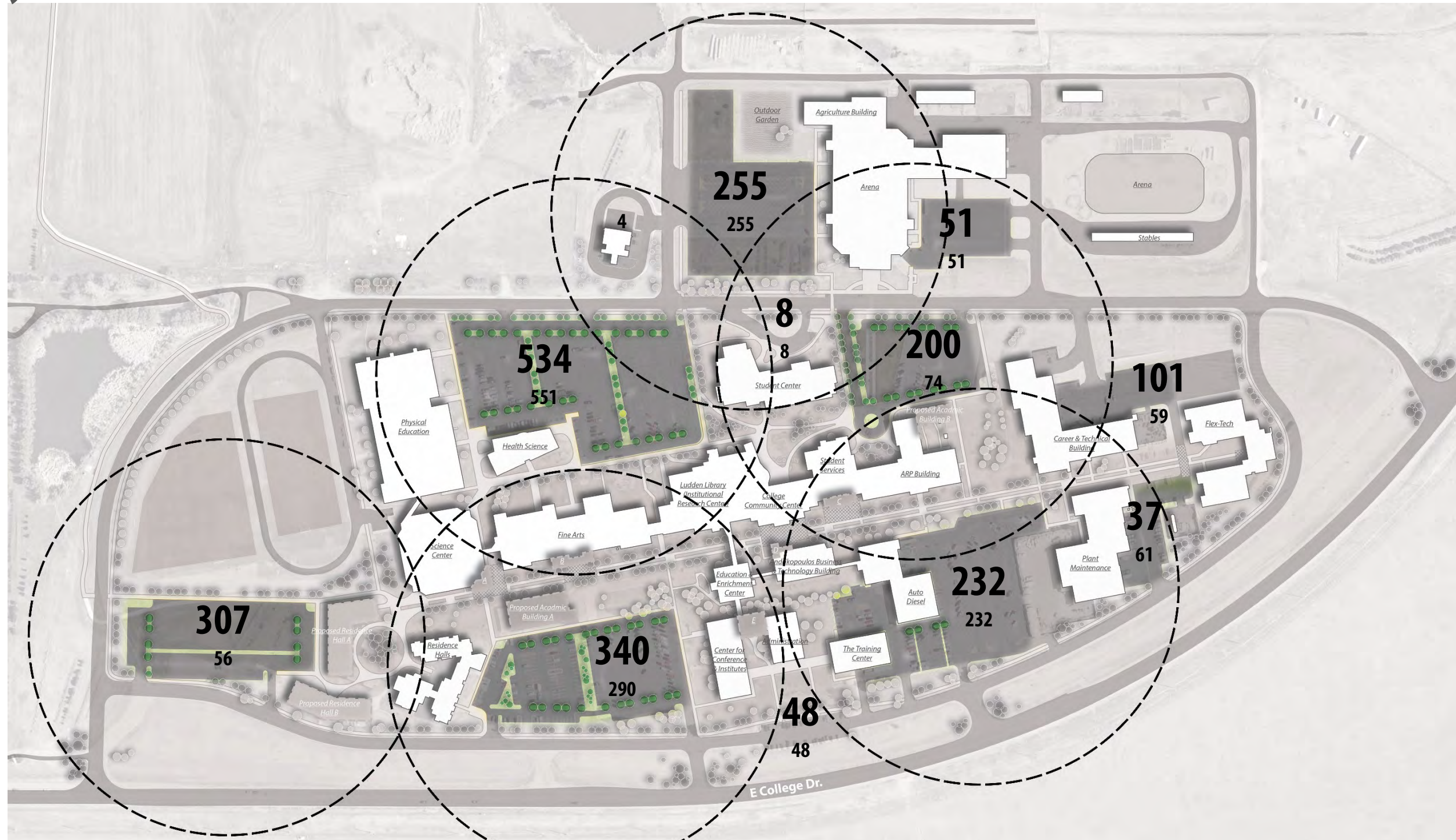
- Loop Road
- Relocated Intersections
- Vehicular Gateways
- Service Corridor
- Drop-off
- Traffic Calming



Master Plan Systems

Parking

- Existing:
 - 1,685 spaces
- Proposed:
 - Option A: 2,113 Spaces
 - Option B: 1,968 Spaces



Albany County Campus





Includes Building Addition in TY from Level I & II Study:

- Classroom = 1275 ASF
- Lab & Service = 1450 ASF
- Office = 200 ASF

Analysis excludes FTE and space occupied at UW and other off campus locations

Campuswide Space Needs Analysis

Laramie County CC • Albany County Center

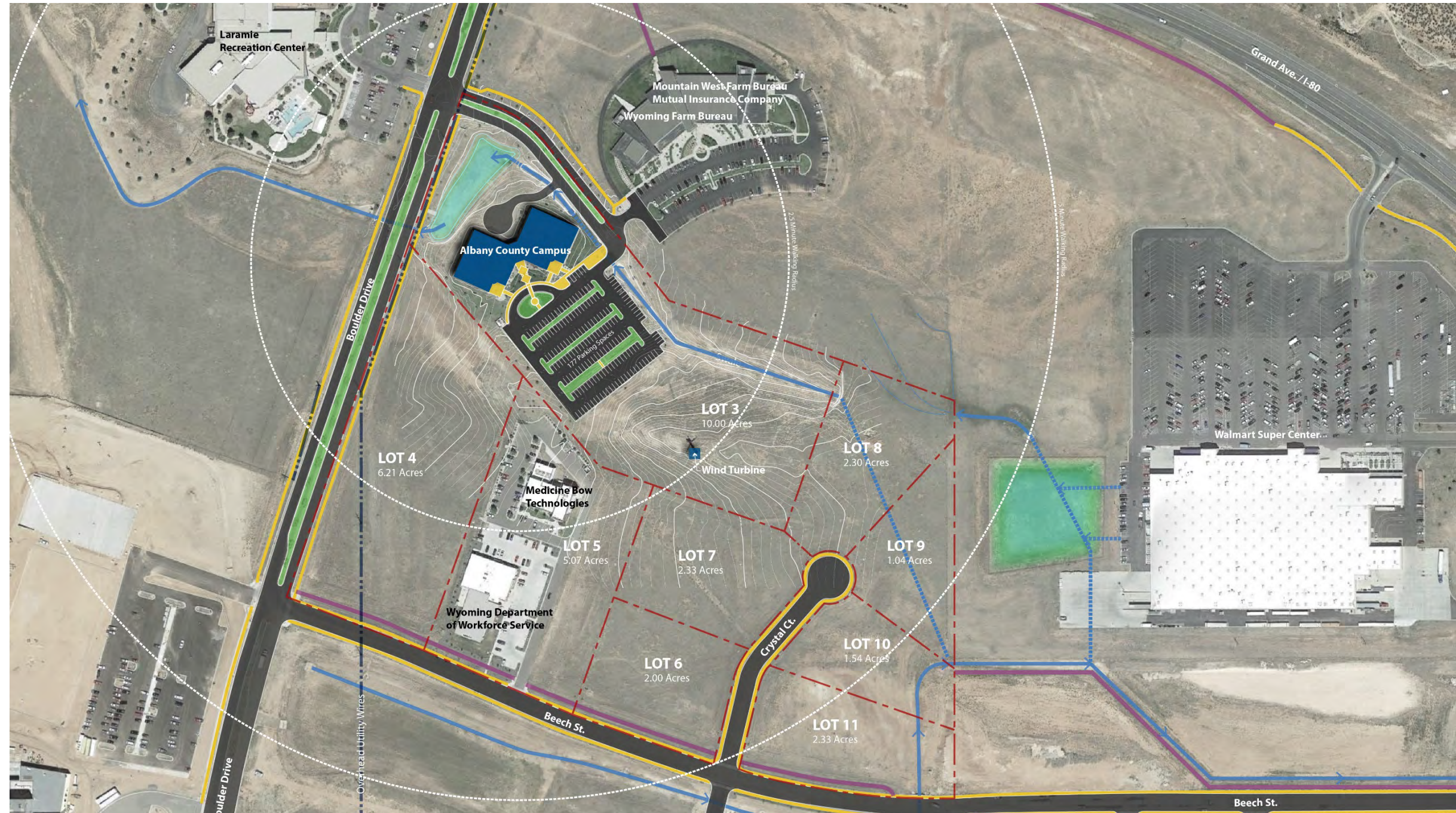
Space Category	Base Year <i>Student FTE = 434 Staff Headcount = 28</i>				Target Year <i>Student FTE = 460 Staff Headcount = 28</i>			
	Existing ASF	Guideline ASF	Surplus/ (Deficit)	Percent Surplus/	Existing ASF	Guideline ASF	Surplus/ (Deficit)	Percent Surplus/
Academic Space								
Classroom & Service	6,075	6,214	(139)	(2%)	7,350	6,360	990	13%
Teaching Laboratories & Service	4,122	6,445	(2,323)	(56%)	5,572	6,554	(982)	(18%)
Open Laboratories & Service	1,791	2,387	(596)	(33%)	1,791	2,530	(739)	(41%)
Offices & Service	4,112	5,230	(1,118)	(27%)	4,312	5,230	(918)	(21%)
Academic Success Laboratories	524	868	(344)	(66%)	524	1,012	(488)	(93%)
Other Department Space	250	1,302	(1,052)	(421%)	250	1,380	(1,130)	(452%)
<i>Academic Space Subtotal</i>	<i>16,874</i>	<i>22,446</i>	<i>(5,572)</i>	<i>(33%)</i>	<i>19,799</i>	<i>23,066</i>	<i>(3,267)</i>	<i>(17%)</i>
Academic Support Space								
Learning Commons/Library	1,177	3,779	(2,602)	(221%)	1,177	4,040	(2,863)	(243%)
Central Computer	450	434	16	4%	450	460	(10)	(2%)
Student Social & Study	1,694	2,732	(1,038)	(61%)	1,694	2,848	(1,154)	(68%)
<i>Academic Support Space Subtotal</i>	<i>3,321</i>	<i>6,945</i>	<i>(3,624)</i>	<i>(109%)</i>	<i>3,321</i>	<i>7,348</i>	<i>(4,027)</i>	<i>(121%)</i>
Other								
Student Center	436	2,124	(1,688)	(387%)	436	3,000	(2,564)	(588%)
<i>Other Subtotal</i>	<i>436</i>	<i>2,124</i>	<i>(1,688)</i>	<i>(387%)</i>	<i>436</i>	<i>3,000</i>	<i>(2,564)</i>	<i>(588%)</i>
CAMPUS TOTAL	20,631	31,515	(10,884)	(53%)	23,556	33,414	(9,858)	(42%)

Albany County Campus Master Plan

Existing Conditions

Parking

- Existing:
 - 183 spaces



Albany County Campus Master Plan

Development Summary

Option Parcels 6, 7, 8, 9

Proposed Buildings

A: 15,000 GSF
(Fulfills 2020 Space Needs)

B: 15,000 GSF

C: 15,000 GSF

D: 12,500 GSF

E: 15,000 GSF

F: 12,500 GSF

Parking – 407 Spaces



Albany County Campus Phase I

Development Summary

Option Parcels 6, 7, 8, 9

Proposed Buildings

A: 15,000 GSF
(Fulfills 2020 Space Needs)

Parking – 243 Spaces

