UNIVERSITY of WASHINGTON

206874
Chemical Sciences Building Project Introduction

CUCAC Meeting
May 13, 2025

Presentation Agenda

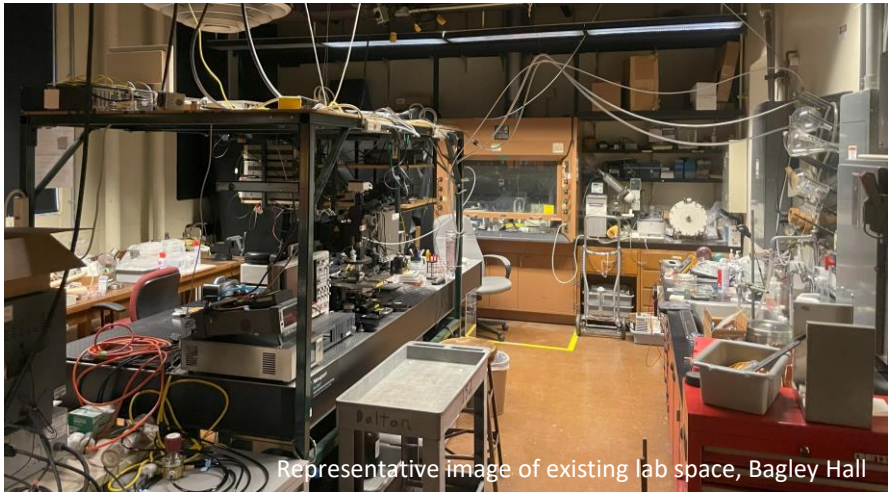
1. Project Scope Overview
2. Site Location and CMP Consistency
3. Pre-Design Report
4. What's Next

1. Project Scope Overview

Problem Statement

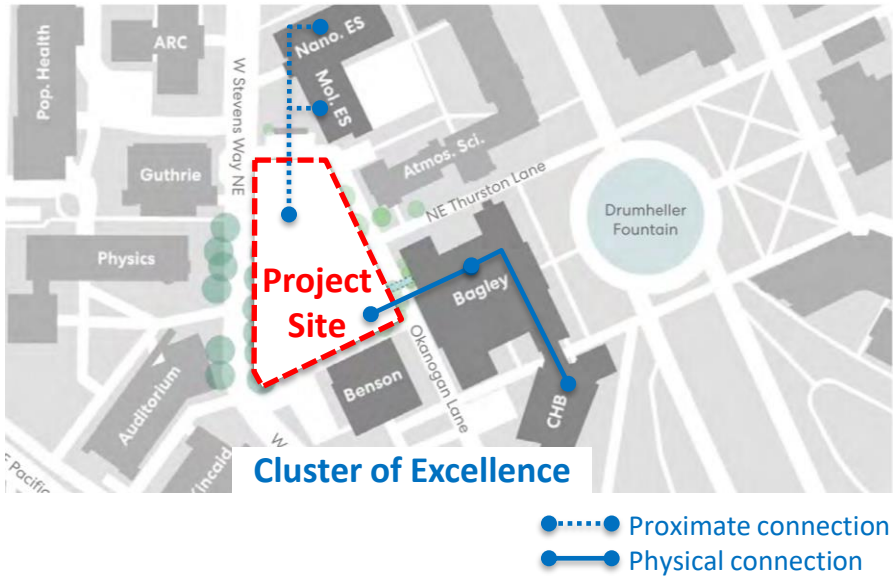
UW Chemistry Department uses Bagley Hall (1937) + Chemistry Library (1957) and must keep pace with the demands of modern scientific practice. To meet requirements for cutting-edge research in the chemical sciences :

- Increase collaboration opportunities
- Improve size and existing constraints for wet-lab instruction
- Improve HVAC control and flexible interdisciplinary lab space
- Rehabilitate aging infrastructure



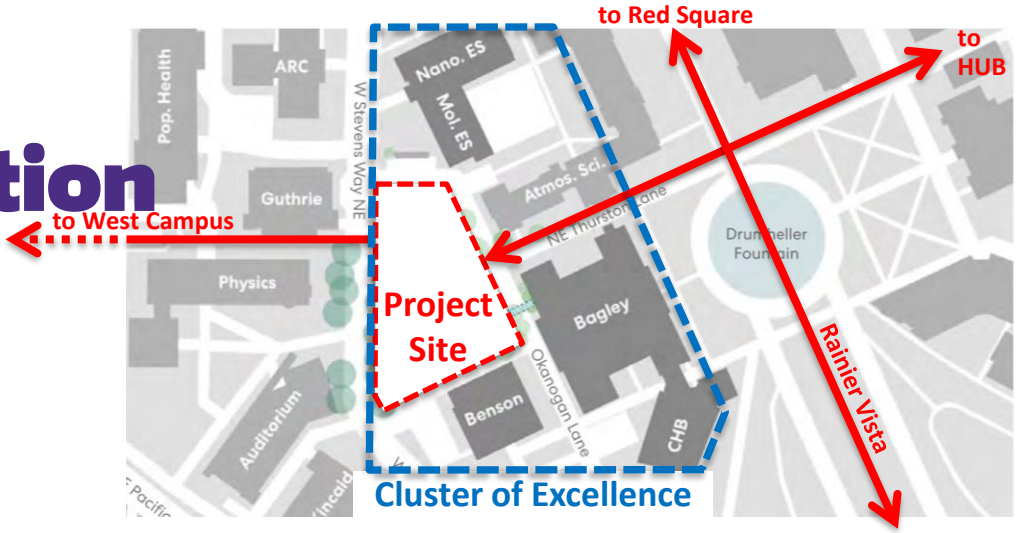
Representative image of existing lab space, Bagley Hall

Project Scope



- The new Chemical Sciences Building (~110,000 GSF) will replace the Chemistry Library Building
- Enable a new mode of science where fundamental chemical research can transform into real-world applications in real time.
- Provide unique opportunities for education and discovery for undergraduate and graduate students in interdisciplinary chemical sciences research
- Enhance recruitment of faculty and graduate students
- Requires proximity to the existing Chemistry Building (CHB) and Bagley Hall with nearby interdisciplinary research centers such as Molecular Engineering & Sciences (MoIES) and Nanoengineering & Sciences (NanoES).

Campus Integration



Preserve and Strengthen the Historic Core

Respect and integrate with the collegiate character of Central Campus' historic core.

Create Connections

Create, clarify and amplify legible connections and Universal Access between Rainier Vista and Drumheller Fountain with Stevens Way, South Campus, and West Campus

Prioritize a Campus-First Design

Design the building and site to prioritize the pedestrian experience. Maximize pedestrian arrival and campus experience whole thoughtfully locating/minimizing vehicular access and service.

Embody Pacific Northwest Character

Amplify the lush, evergreen, Pacific Northwest character that draws people to our region and the UW. Facilitate the unique place-specific relationships between people, plants, animals, insects, and other organisms.

Lead on Sustainability including use of long-term sustainability strategies and infrastructure investments

Cluster of Excellence create a chemical science cluster of excellence and interdisciplinary research

Project Goals

[grow & retain]

Increase degree production through recruitment and retention of excellent graduate students and faculty resulting in an expansion of class offerings and hands-on research training opportunities.

[collaborate]

Increase grant funding and new interdisciplinary discovery through a more efficient collocated environment

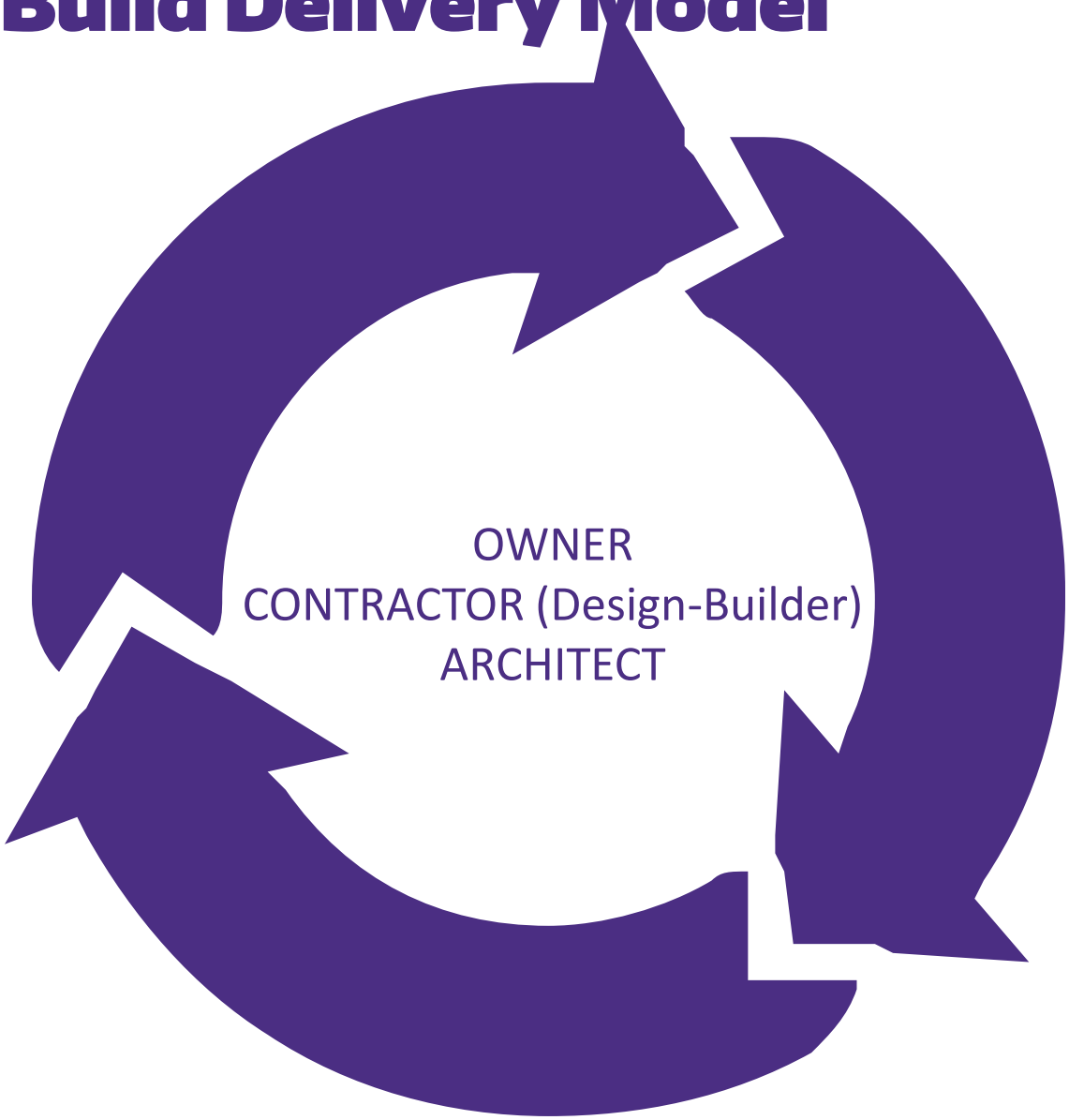
[modernize]

Optimize space by 15% through implementation of efficiencies, modernization, and economies of scale

[innovate]

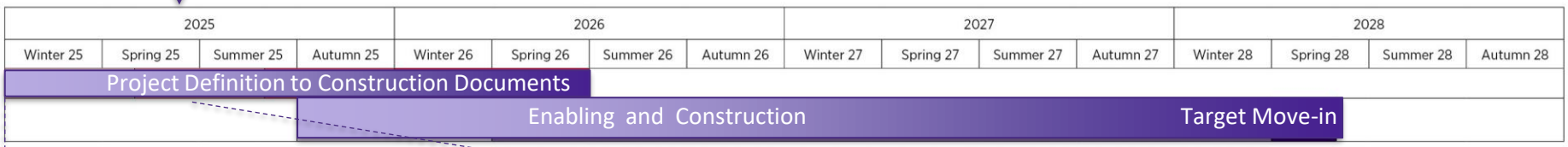
Capitalize on synergy and interdependence between research and classroom by creating an environment that drives innovation and research that feeds what is taught in the classroom.

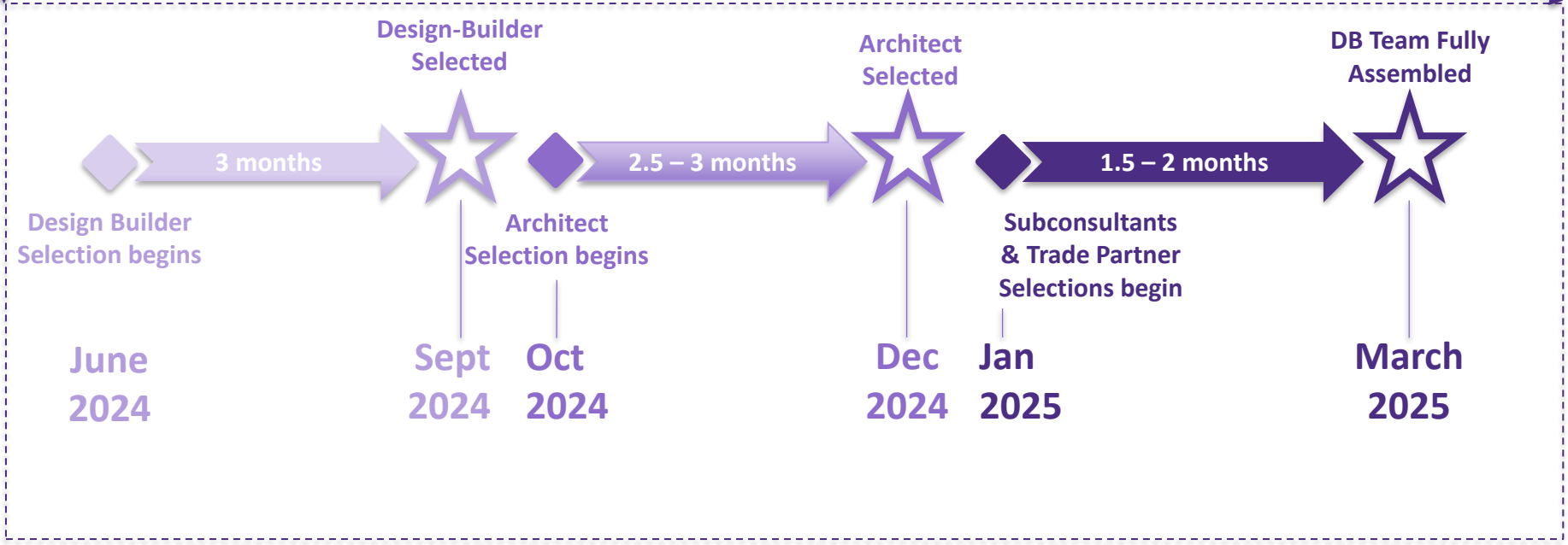
Design-Build Delivery Model



Project Schedule

WE ARE HERE





2. Site Location and CMP Consistency

Campus Context – Campus Master Plan

Project Site in Central Campus

Figure 3 – Campus Sectors (UW 2019 Seattle CMP)

Campus Context – Project Site

Project Development Site C17 and portion of C16

Figure 128 – Central Campus Development Sites (UW 2019 Seattle CMP)

CMP Development Standards

Table 14. Central Campus Development Sites Spreadsheet

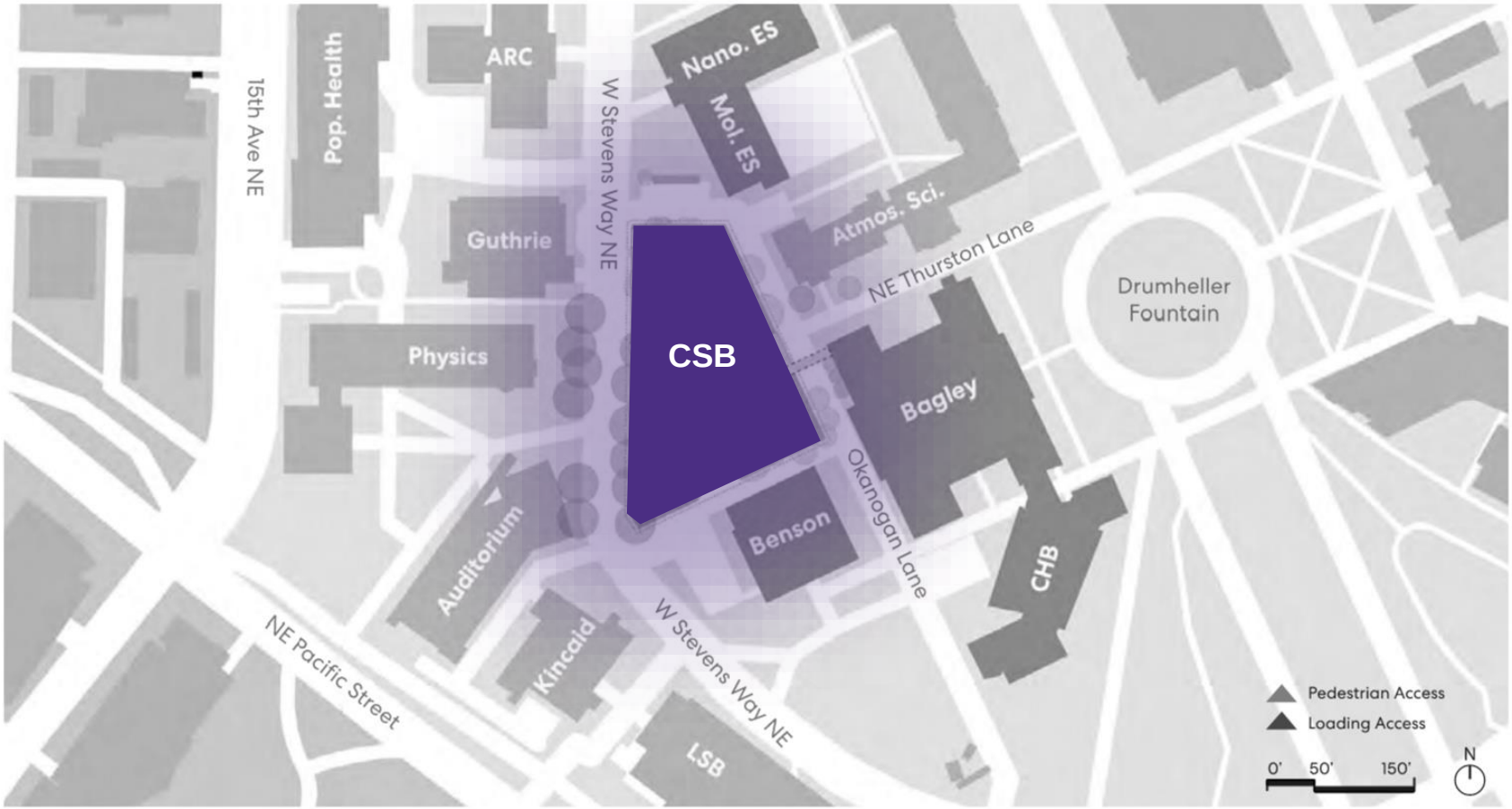
SITE ID	SITE NAME	TOTAL ENVELOPE GROSS SQUARE FEET	TOTAL MAXIMUM GROSS SQUARE FEET	PERCENT OF ENVELOPE	DEMO GROSS SQUARE FEET****	NET NEW GROSS SQUARE FEET*****	APPROX# OF FLOORS	MAXIMUM BLDG HT LIMIT
C1	West of Memorial Way / N1 Parking Lot	290,000	200,000	69%	68,916	131,084	7	105
C2	East of Memorial Way / N5 Parking Lot	265,000	135,000	51%		135,000	5	105
C3	Mackenzie Replacement / N3 Parking Lot	165,000	145,000	88%	43,099	101,901	7	105
C4	Intellectual House Phase 2	40,000	5,000	13%		5,000	1	105
C5	North Campus Housing 1 (Building A)**/***	170,000	110,000	65%		110,000	5	105
C6	North Campus Housing 2 (Building E) / Haggett Hall Site / N9, 10, 11 Parking Lots **/***	535,000	290,000	54%	206,114	83,886	6	160
C7	McMahon Hall Site / N13, 14, 15 Parking Lots	600,000	400,000	67%	288,352	111,648	11	160
C8	Padelford Garage North Site / N16, 18, 20, 21*	315,000	245,000	78%	138,555	106,445	8	105
C9	Padelford Hall South Site*	185,000	155,000	84%		155,000	8	105
C10	Padelford Garage South Site*	230,000	145,000	63%		145,000	7	105
C11	Facility Services Admin Bldg / University Facilities Bldg and Annex 1	120,000	85,000	71%	20,125	64,875	7	105
C12	Plant Op Annexes 2-6 / University Facilities Annex 2 / C23 Parking Lot	230,000	115,000	50%	18,860	96,140	6	105
C13	Sieg Hall Replacement	145,000	130,000	90%	57,180	72,820	7	105
C14	Mechanical Eng / Eng Annex / C15 Parking Lot	300,000	215,000	72%	125,896	89,104	8	105
C15	Wilcox / Wilson Ceramics Lab Site / Wilson Annex	90,000	60,000	67%	50,328	9,672	4	65
C16	Benson Hall / C7 Parking Lot	320,000	210,000	66%	76,271	133,729	7	105
C17	Chem Library Site	130,000	85,000	65%	39,363	45,637	7	105
C18	South of Henry Art Gallery	70,000	35,000	50%		35,000	4	105

Table 14 – Central Campus Development Sites (UW 2019 Seattle CMP)

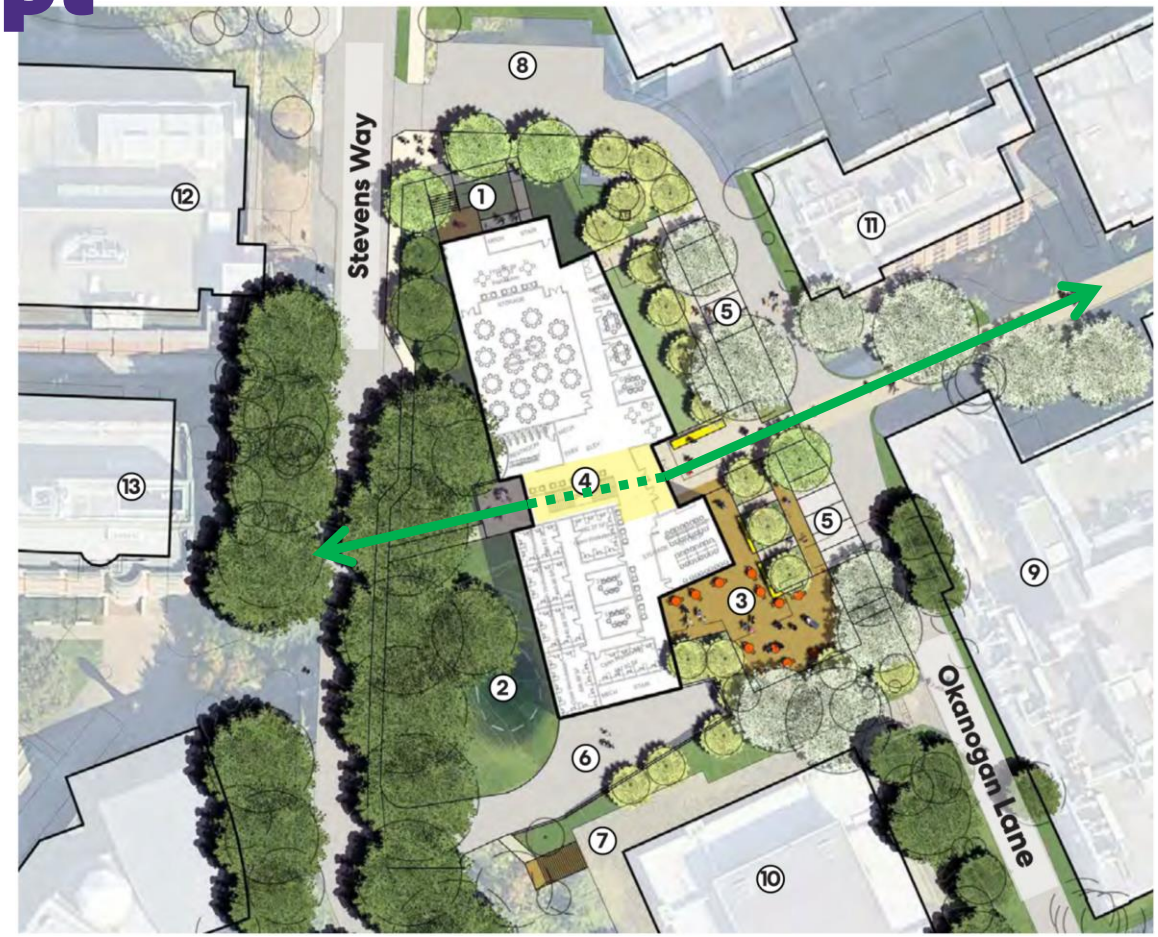
CMP Development Standards

Figure 137 – Central Campus Development Sites (UW 2019 Seattle CMP)

Campus Context – Project Site



Site Pre-design Concept



Site Photos

Figure 5.07. Site Location

Figure 5.08. Viewpoint from Roof of Surrounding Building: Architecture Hall, Chemistry Building and Life Science Building

Figure 5.09. Chemistry Library North Side

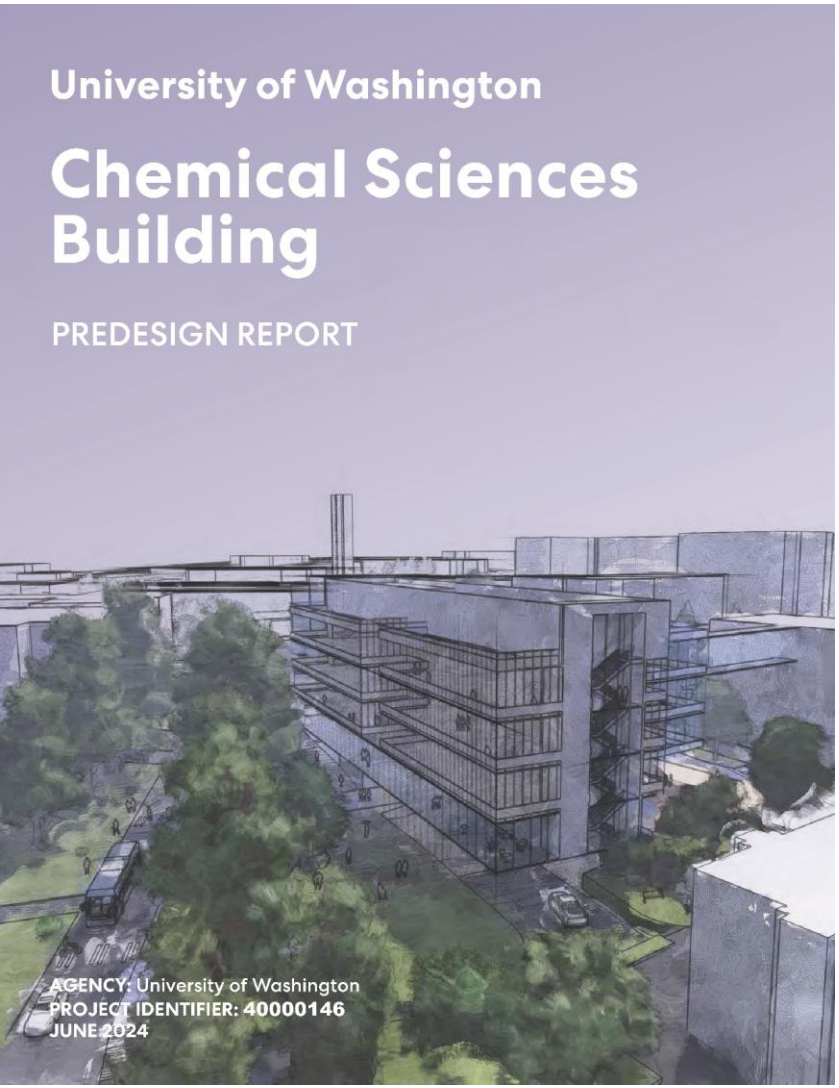
Figure 5.10. Chemistry Library East Side

Figure 5.11. Chemistry Library Southwest Corner

Figure 5.12 Chemistry Library West Side

3. Space Program

Pre-design Report – Space Program



Pre-Design report assumes a total of 67,800 ASF, 109,400 GSF based on 62% efficiency.

i. Lab and Lab Support: 40,300 ASF

ii. Offices: 14,400 ASF

iii. Collaboration: 10,100 ASF

iv. Classrooms: 3,100 ASF

Program components:

i. 12 General Labs @ 1,610 = 19,320

2:1 Support Labs ratio = 9,035

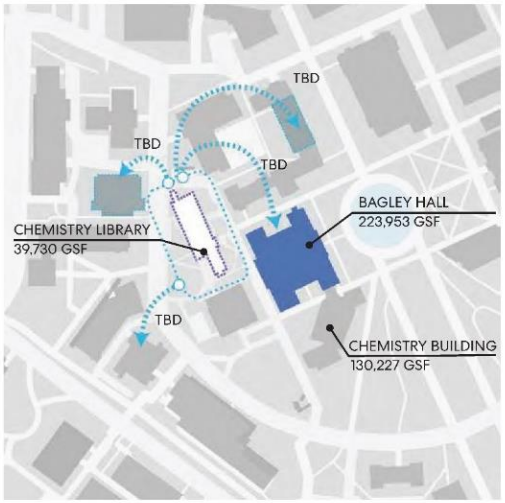
i. 18 High Performance Labs @ 661 = 11,901

ii. 210 Researchers

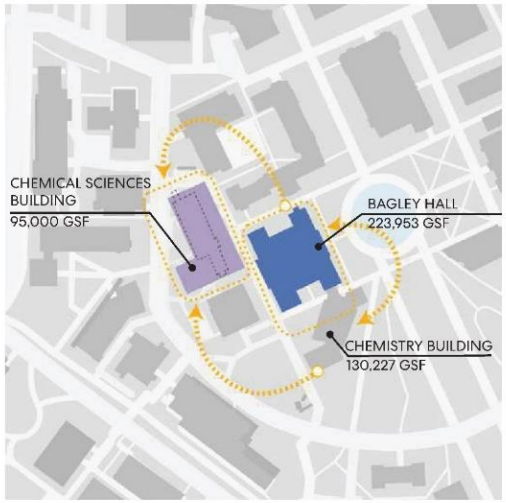
iii. 25 Faculty

iv. 120 students (Classroom)

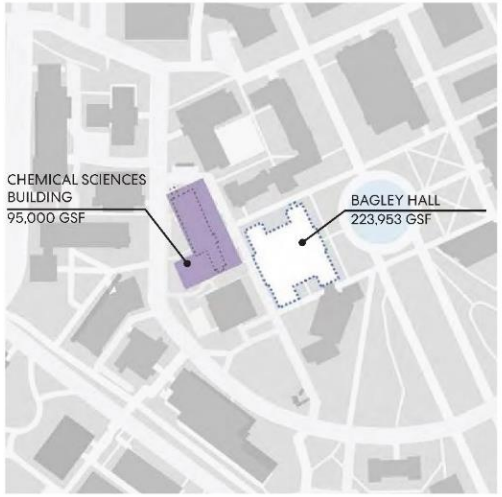
Pre-design Report – Phasing



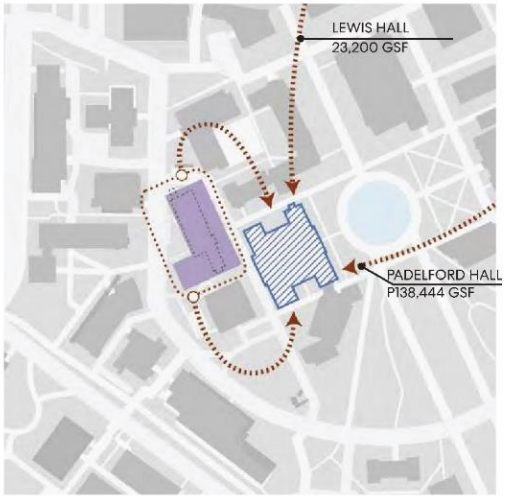
Phase 1 - Relocate Chemistry Library Building occupants prior to building demolition



Phase 2 - Chemistry department move into Chemistry Science Building after building completion



Phase 3 - Partial renovation of Bagley Hall systems and program



Future Phase - Backfill remaining vacated spaces in Bagley Hall

4. What's Next

Thank You