IEB Community

- Primary academic home for freshmen and sophomore students
- A place for teaching and interaction with engineering faculty representing multiple fields and disciplines;
- A place for exchange with industry partners
- A place to coalesce the College into one community and champion the inclusion of historically underrepresented groups in the engineering sciences
- A place that reshapes open space and campus connectivity for the UW Community
IEB Project Goals

**GROW**
The IEB will...help us grow in terms of numbers and to become more inclusive, collaborative, innovative, and adaptable, with programs supported by facilities rivaling or exceeding those of our peer institutions.

**ENRICH**
The IEB will be an important part of our on-campus student experience and will serve as a home or “engineering central,” offering the spaces needed to educate students to solve major societal challenges.

**COLLABORATE**
The IEB will embody our commitment to providing exposure to the full range of engineering disciplines right away, supporting project-based learning, interdisciplinary teamwork, improved diversity, and increased partnerships with industry, and more.

**ENGAGE**
The IEB will provide a silo-free learning environment that students need to prepare for industry and entrepreneurial careers in collaboration with fellow students across campus.
Project & Permitting Schedule

PROJECT DEFINITION
IMPLEMENTATION DOCUMENTS
SD DD CD

PERMIT PACKAGES

IEB: DEMO (x4) 12wk permit review
IEB: FOUNDATIONS 12mo permit review
IEB: ARCHITECTURE & MEPFP 12mo permit review
IEB: STRUCTURE & CIVIL 12mo permit review
IEB: SHORING & EXCAVATION 10mo permit review

CONSTRUCTION
MAKE READY ELECTRICAL
MOBILIZATION, ABATEMENT & DEMO
SHORING & EXCAVATION
FOUNDATIONS
STRUCTURE
ROUGH IN
SKIN
INTERIORS/FINISHES/TURNOVER
NEXT STEPS – Agreed upon at January UWAC meeting

• Foundations & Structural permitting
• DD level design investigations of masonry/glazing envelope
• Articulation of operable windows within the fenestration
• Building exterior elements articulation
• Rooftop mechanical enclosure massing and material investigation
• Further design investigations of interiors
• Continued monitoring of market volatility and shelling strategies

NEXT MEETING

• UWAC – June 13th
UWAC Agenda

10 Min  Site Design
        Progress Update

10 Min  Interior Design
        Progress Update

6 Min   Envelope Design
        Progress Update
OVERALL SITE PLAN
UNIVERSITY OF WASHINGTON - INTERDISCIPLINARY ENGINEERING BUILDING

ENGINEERING BUILDING

INTERDISCIPLINARY ENGINEERING BUILDING

UNIVERSITY CLUB

JEFFERSON ROAD

THE HUB

STEVEN'S WAY

ANNEX FOUR

FLUKE HALL
RESPOND TO THE LANDSCAPE

FACILITATE CAMPUS CONNECTIVITY

ENGAGE STUDENT LIFE
SITE STORMWATER
UNIVERSITY OF WASHINGTON - INTERDISCIPLINARY ENGINEERING BUILDING
PORCH + PORTAL CONCEPT
UNIVERSITY OF WASHINGTON - INTERDISCIPLINARY ENGINEERING BUILDING

STEVENS WAY

ARRIVAL BRIDGE

SHARED LANDING

PORCH

TO LEVEL 1 + ELEVATOR

STAIR

TO LEVEL G1

PORTAL
PORCH + PORTAL ENLARGEMENT
UNIVERSITY OF WASHINGTON - INTERDISCIPLINARY ENGINEERING BUILDING

- Exceptional Douglas Fir
- Stevens Way arrival bridge
- Community porch
- Portal plaza
- Hillside nooks
- Jefferson entry
- Portal terrace
PORTAL DESIGN – TERRACES (MAY 15, 3 PM)
UNIVERSITY OF WASHINGTON – INTERDISCIPLINARY ENGINEERING BUILDING

14 MARCH 2022 | © KIERANTIMBERLAKE | HENSEL PHELPS | PLACE
PORTAL DESIGN – JEFFERSON ENTRY (MAY 15, 3 PM)
UNIVERSITY OF WASHINGTON - INTERDISCIPLINARY ENGINEERING BUILDING
PORTAL DESIGN – EAST OVERLOOK (MAY 15, 11 AM)
UNIVERSITY OF WASHINGTON - INTERDISCIPLINARY ENGINEERING BUILDING
NORTH EDGE – STEVENS WAY CONNECTION
UNIVERSITY OF WASHINGTON - INTERDISCIPLINARY ENGINEERING BUILDING
entry bridge | light touch planking

guardrail character | enhance + disappear

handrails | clean detailing

connection pathways | visible edges

built in seating | warmth in materials

retaining walls | textural treatment

gathering plaza | accent finished concrete

terrace placemaking | sandset pavers
SITE PLANTING CHARACTER
UNIVERSITY OF WASHINGTON – INTERDISCIPLINARY ENGINEERING BUILDING

composition | native and adapted

shade loving groundcovers | deer + sword ferns

evergreen and fragrance | sarcococca

seasonal structure | yellow twig dogwood

woodland dappling | vine maple

midstory show | cornus mas

enhanced woodland grove | western red cedar

view framing | douglas fir
Interior Design

PROGRESS UPDATE
DETAILED INSIGHTS
Identifying space needs and requirements

UW GROUPS, COE FACULTY, STAFF & STUDENTS

- SMALL GROUP MEETINGS
- GOALS PER PROGRAM TYPE
- CLASSROOMS
- CURRICULAR SPACE
- PROJECT SPACE
- SOCIAL SPACE
- ADVISING SPACE

ON-SITE SURVEYS

EXISTING AND EXEMPLARY SPACES AND ATTRIBUTES

SURVEY

REQUIREMENTS, EQUIP., FURNISHINGS PER SPACE TYPE

JUNE & JULY 2021

DETAILED INSIGHTS

01/12 – SITE & SHELL PROJECT WORK TEAM
01/19 – SITE & SHELL PROJECT WORK TEAM
01/20 – ELEVATOR DESIGN
01/26 – SITE & SHELL PROJECT WORK TEAM
01/26 – SITE ACCESSIBILITY & VEHICULAR ACCESS
01/27 – SUSTAINABILITY & “LIVING LAB”
01/28 – ACCESS CONTROL
02/09 – SITE & SHELL PROJECT WORK TEAM
02/09 – INTERIORS & MGMT PROJECT WORK TEAM
02/11 – ACCESS CONTROL
02/11 – SITE ACCESSIBILITY & VEHICULAR ACCESS
02/15 – ELEVATOR DESIGN
02/18 – DAN RATNER & DR. KAREN THOMAS-BROWN MEET WITH STUDENTS TO DISCUSS THE INTERIOR DESIGN APPROACH
02/16 – SITE & SHELL PROJECT WORK TEAM
02/22 – ENGINEERING ACADEMIC CENTER REVIEW
02/28 – ACCESS CONTROL
03/02 – INTERIORS & MGMT PROJECT WORK TEAM
03/09 – SITE & SHELL PROJECT WORK TEAM
ENVELOPE DESIGN

PROGRESS UPDATE
CAMPUS OBSERVATIONS AND MATERIALS
UNIVERSITY OF WASHINGTON - INTERDISCIPLINARY ENGINEERING BUILDING
ENVELOPE CONSTRAINTS
MASONRY DETAILING
EXPLORING PATTERN AND TEXTURE

BRICK PATTERNING EXPLORATION
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FIELD OF PATTERNING  
UNIVERSITY OF WASHINGTON - INTERDISCIPLINARY ENGINEERING BUILDING

DISTRIBUTED

LOCALIZED

REFLECTIVE
INDIVIDUAL WINDOWS  TYPOLOGIES
UNIVERSITY OF WASHINGTON - INTERDISCIPLINARY ENGINEERING BUILDING
WINDOW Design Parameters

- Window Manufacturer
- Solar Exposure
- Ceilings
- Operability
- Placement (Inside)
- Aesthetic (Outside)
- Embodied Carbon

COST FACTORS

CODE U-VALUES
EXTRA-TALL GLASS
SAFE GLAZING
ADD MULLION
FIBERGLASS MULLIONS
OPERABLE LIGHT
BACK-PAINTED SPANDREL
SHADOW BOX SPANDREL
OTHER MATERIAL SPANDREL

INDIVIDUAL WINDOWS DESIGN PARAMETERS
UNIVERSITY OF WASHINGTON - INTERDISCIPLINARY ENGINEERING BUILDING
NEXT UWAC MEETING

June 13th