UNIVERSITY OF WASHINGTON
North Campus Housing

University of Washington
Architectural Commission

29 JUNE 2015

AGENDA

1. PROJECT GOALS
2. PREDESIGN SUMMARY
3. SCHEMATIC DESIGN, PHASE IVa
ARCHITECTURE + LANDSCAPE
PROJECT GOALS
PROJECT GOALS

RESIDENTIAL COMMUNITY
- World Class Living/Learning Community
- Support 3,200 Students
- Integrate Common Space, Regional and Recreational Programs with Landscape
- Integrate Residential Community with Campus and Neighborhood

CHARACTER
- Enhance Woodland Landscape of Kincaid Ravine and Whitman Court
- Integrate Woodland Landscape with Historic and Contemporary Landscape Influences

HISTORY
- Embrace and Enhance Historic Structures and Landscapes Including Hansee, Hutchinson, Lewis and Denny Field

CONNECTIVITY
- Strengthen Campus and Neighborhood Connections
- Enhance Quality and Safety of Pedestrian and Cycling Experiences Across and Along Stevens Way
- Improve Pedestrian and Cycling Connections from Campus Across 45th Street

SCALE AND PERCEPTION
- Landscape Types Should Range from Intimate to Expansive
- Architectural Scale to Reveal and Connect to Woodland Canopy Beyond

SUSTAINABILITY
- Be Good Stewards of Resources
- Strive to Achieve LEED Gold and 2030 Energy Challenge
- Maximize Penetration of Desirable Sun and Wind
- Retain and Manage Storm Water On-Site
**Regional Program**  
6.37%  
Express Market / Cafe  
Fitness Center  
Games Center  
Learning Resource Center  
Regional Desk  
Staff Office Suite  
Regional Housing Warehouse  
Student Government  
Custodial Office Suites  
Group Music Practice Rooms

**Dining Program**  
6.57%  
New Dining Hall  
Catering/Commissary  
Great Room  
Small Catering Kitchen

**Community Program**  
10.19%  
Main Lounge  
Group Kitchen  
Admin. Office  
Music Practice Rooms  
Meeting Rooms  
Laundry  
Building Support  
Bike Storage

**Residential Program**  
76.87%  
Floor Lounges  
Group Study Lounges  
Single Rooms  
Double Rooms  
Triple Rooms  
Quad Rooms  
Studio Apartments  
Staff Apartments

**Total Area** = 831,879 GSF  
2,850 Beds
PREDESIGN SUMMARY  GROUND FLOOR PROGRAM

UNIVERSITY OF WASHINGTON NORTH CAMPUS HOUSING

GROUND FLOOR PROGRAM

Cafe / Market
7,700 NSF

Learning Resource Center
10,170 NSF

RHSA Office
1,600 NSF

Great Room
7,150 NSF

Regional Desk
6,830 NSF

Game Room
4,062 NSF

Catering Commissary
17,755 NSF

Dining Hall
30,480 NSF

Fitness Center
8,510 SF
PREDESIGN SUMMARY  PROPOSED MASSING AND VEGETATION
UNIVERSITY OF WASHINGTON NORTH CAMPUS HOUSING
25 JUNE 2015 | KIERANTIMBERLAKE | OLIN
**PREDESIGN SUMMARY**

**LANDSCAPE TYPOLOGIES**

**1 Denny Field Recreational Fields**

Description

The largest open space in this precinct is a play field that celebrates the location of the University of Washington’s first football field: Denny Field. The proposed design reshapes this intramural field reminiscent of a stadium space, designed as an elliptical bowl-shaped field flanked lengthwise by deciduous trees, gently sloped banks that function as informal seating for spectators as well as covered porch views from residence halls ‘A’ and ‘B’.
Description

Behind Lewis Hall, several clumps of significant trees with infill plantings will form the nucleus of a shaded grove, within which a circular lawn will be framed by flowering understory trees and shrubs. It is envisioned as a space for informal gatherings and occasions within the campus community.
3 PLAza TOWN SQUARE

Description
The Town Square is the confluence of student activity and circulation. The square will provide access to regional and local student services and facilities, as well as providing a locus for events and activities that require a supporting pavement. This space will be heavily trafficked as point of meeting, orientation, events and other student activities.
**Description**

Kincaid Ravine is to be restored with appropriate native species to provide habitat as well as a safe, usable, stable pedestrian path connecting the student community above with the Burke Gilman Trail and the University Village commercial area below.
**Description**

This passage to the residential community, between Building A and Lewis Hall, will be adjacent to a traditional lawn and canopy trees as found on many campuses and exemplified by the pastoral sloping yard to the east of Denny Hall that is traversed with paths.
Description
This amphitheater is a courtyard space that looks out to the Cascade Range and is embraced by the preserved woodlands on the existing rockery parallel to Whitman Way.
PROPOSED + EXISTING TREES TO REMAIN

- Proposed Trees: 270
- Trees to Remain: 206
- Total Trees at 4A + 4B Project Completion: 476
PREDESIGN SUMMARY  PROPOSED PLANTING PLAN

UNIVERSITY OF WASHINGTON NORTH CAMPUS HOUSING

3" CAL OR 10-12' HEIGHT
MULTISTEM UNDERSTORY - 96

3" CAL OR 10-12' HEIGHT
UNDERSTORY - 34

4" CAL BROADLEAF CANOPY - 17

6" CAL BROADLEAF CANOPY - 85

8" CAL SALIX ALBA - 22

16-24' HEIGHT CONIFER - 38

TOTAL PROPOSED TREES - 270
CONIFEROUS TREES

Yellow Cedar
Cryptomeria
Lodgepole Pine
Western White Pine
Douglas Fir
Western Red Cedar
Western Hemlock

DECIDUOUS TREES

Big Leaf Maple
Pacific Madrone*
Paper Birch
Katsura
Yellowwood
Oregon Ash

*Madrone available only in limited size

UNDERSTORY TREES

Vine Maple
Serviceberry
Dogwood
Black Hawthorn
Pacific Crabapple
Cherry

Additional Trees:
Horse Chestnut
Sweetgum
Plane Tree
Quaking Aspen
Garry Oak
White Willow

Additional Trees:
Cascara
UW NORTH CAMPUS HOUSING STORMWATER STRATEGY

LEGEND
- POLLUTION GENERATING IMPERVIOUS SURFACE
- MAINTENANCE HOLE
- CATCH BASIN
- STORM DRAIN
- DRAINAGE SWALE
- SLOTTED SUBDRAIN

PHASE 4A LIMITS OF WORK
APPROX. SITE AREA = 5.5 ACRES

GREEN ROOF ON DECK OF BUILDING D
GREEN ROOF ABOVE LRC
LINEAR SLOTTED SUBDRAIN
LINEAR DRAINAGE SWALE
LINEAR STORMWATER DRAINAGE SWALE

NOTES:
- ALL RUNOFF WILL DISCHARGE TO A DESIGNATED RECEIVING WATER THROUGH THE UNIVERSITY’S DEDICATED STORM DRAIN SYSTEM. THEREFORE, THE PROJECT IS NOT REQUIRED TO PROVIDE FLOW CONTROL.
- THE PROJECT WILL BE REQUIRED TO PROVIDE WATER QUALITY TREATMENT FOR POLLUTION GENERATING IMPERVIOUS SURFACES.
ARCHITECTURE + LANDSCAPE
SCHEMATIC DESIGN UPDATE

KieranTimberlake
UNIVERSITY OF WASHINGTON NORTH CAMPUS HOUSING 25 JUNE 2015 | KIERANTIMBERLAKE | OLIN

BUILDING B  TYPICAL RESIDENTIAL PLAN

TOWN SQUARE

MIDSLOPE PATH

LOUNGE

DOUBLES W/ PRIVATE BATH

DOUBLES W/ SHARED LAV

SHARED LAV

LOUNGE
VIEW TOWARD TOWN SQUARE FROM BUILDING D
VIEW OF BUILDING D SOUTHEAST CORNER WITH ASCENT TO TOWN SQUARE
PERSPECTIVE STUDIES
VIEW THROUGH BUILDING D UNDERPASS
UNIVERSITY OF WASHINGTON NORTH CAMPUS HOUSING
VIEW OF BUILDING D UNDERPASS FROM B/D COURTYARD
PERSPECTIVE STUDIES  VIEW OF B/D COURTYARD WITH ASCENT TO TOWNSQUARE
VIEW OF B/D COURTYARD WITH ASCENT TO TOWNSQUARE
VIEW OF B/C COURTYARD NEAR FITNESS CENTER ENTRY
ENVI RONMENTAL ANALYSIS + MATERIALS
PERCENTAGE OF TIME IN CLOUD COVER CATEGORY

Image: weatherspark.com
Light Breeze
(Wind is felt on face, leaves rustle)

Gentle Breeze
(Leaves in motion; flag is ruffled)

Moderate Breeze
(small branches are moved, loose papers are lifted)

ENVIRONMENTAL ANALYSIS + MATERIALS
ANNUAL WIND SPEEDS: DAILY HIGHS, LOWS, AND MEANS

Image: weatherspark.com
PROPOSED NORTH CAMPUS WINDOW TYPOLOGY

- Use largest casement size to available to maximize free area
- Use insect screens to encourage window use and decrease rain intrusion
- Educate residents on window optimization
- Omit metal clad “post” between window units for envelope efficiency

ADDITIONAL MEANS OF IMPROVEMENT

- Specify higher solar heat gain coefficient on south and southwest elevations
- Add more operable window(s) to higher occupancy rooms
- Add solar shading at rooms with expected higher thermal discomfort
ENVIRONMENTAL ANALYSIS + MATERIALS  WINDOW PLACEMENT IN SAMPLE ROOM
WEAVING TEXTURES

NEZ PIERCE c. 1870
FAÇADE OPTIONS  WESTERN RED CEDAR VERTICAL BOARDS WITH STAGGERED FINS
FAÇADE OPTIONS  TERRACOTTA HORIZONTAL PANELS WITH VERTICAL BAGUETTES UNDER WINDOW
FAÇADE OPTIONS  BRICK WITH BOARD FORMED CONCRETE BASE
FAÇADE OPTIONS  PATINATED VERTICAL METAL PANELS
FAÇADE OPTIONS  HYBRID WRC VERTICAL BOARDS WITH PATINATED METAL DETAIL
DISCUSSION
LIFE CYCLE ASSESSMENT

ANALYSIS OF LIFE CYCLE STAGES