



UNIVERSITY OF WASHINGTON
NORTH CAMPUS HOUSING

UW Architectural Commission
University Landscape Advisory Committee

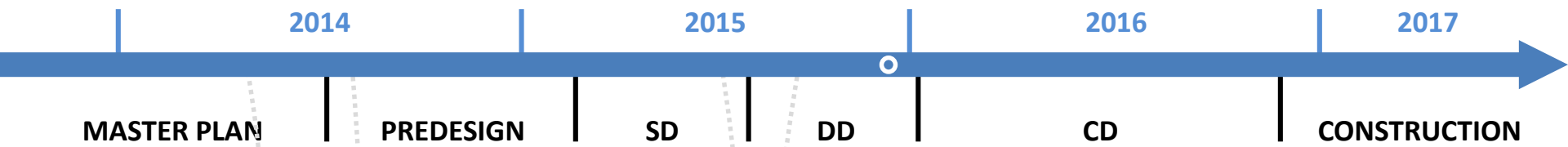
07 DECEMBER 2015

AGENDA

1. PROJECT OVERVIEW AND COMMENTS FROM LAST MEETING
2. SUSTAINABILITY
3. DEVELOPMENT OF DESIGN
4. PHASE IVA WALKTHROUGH



PROJECT OVERVIEW AND COMMENTS FROM LAST MEETING



MASTER PLAN

PREDESIGN

SD

DD

CD

CONSTRUCTION

2014

2015

2016

2017

4/14/14



6/23/14



6/29/15



9/28/15



PROJECT TIMELINE

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 Stormwater On-Site

ARCHITECTURE + LANDSCAPE PRINCIPLES

FRAMING

- Axes: Campus – City – Region
- Sky
- Historic Structures

GROUNDING

Public Space Programming – Outside to Inside; Inside to Outside; Landscape program to ground level building program

THREADING AND WEAVING

Connecting Buildings to each other, to the campus, and beyond

SIGNING

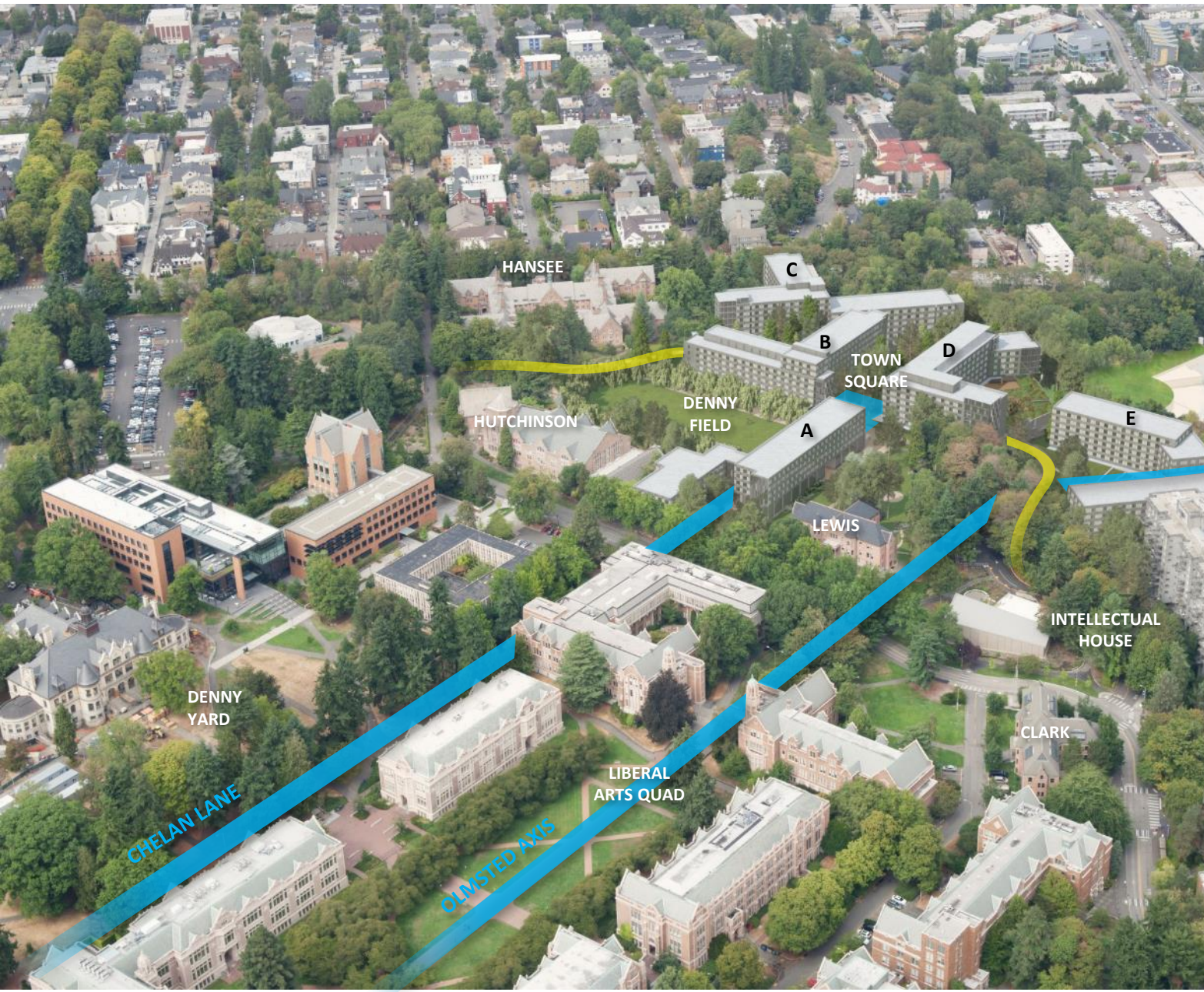
Unique signatures of landscape ground planes evolving into building bases

REPEATING

Housing Elevations – Lateral facades; The Field

ILLUMINATING

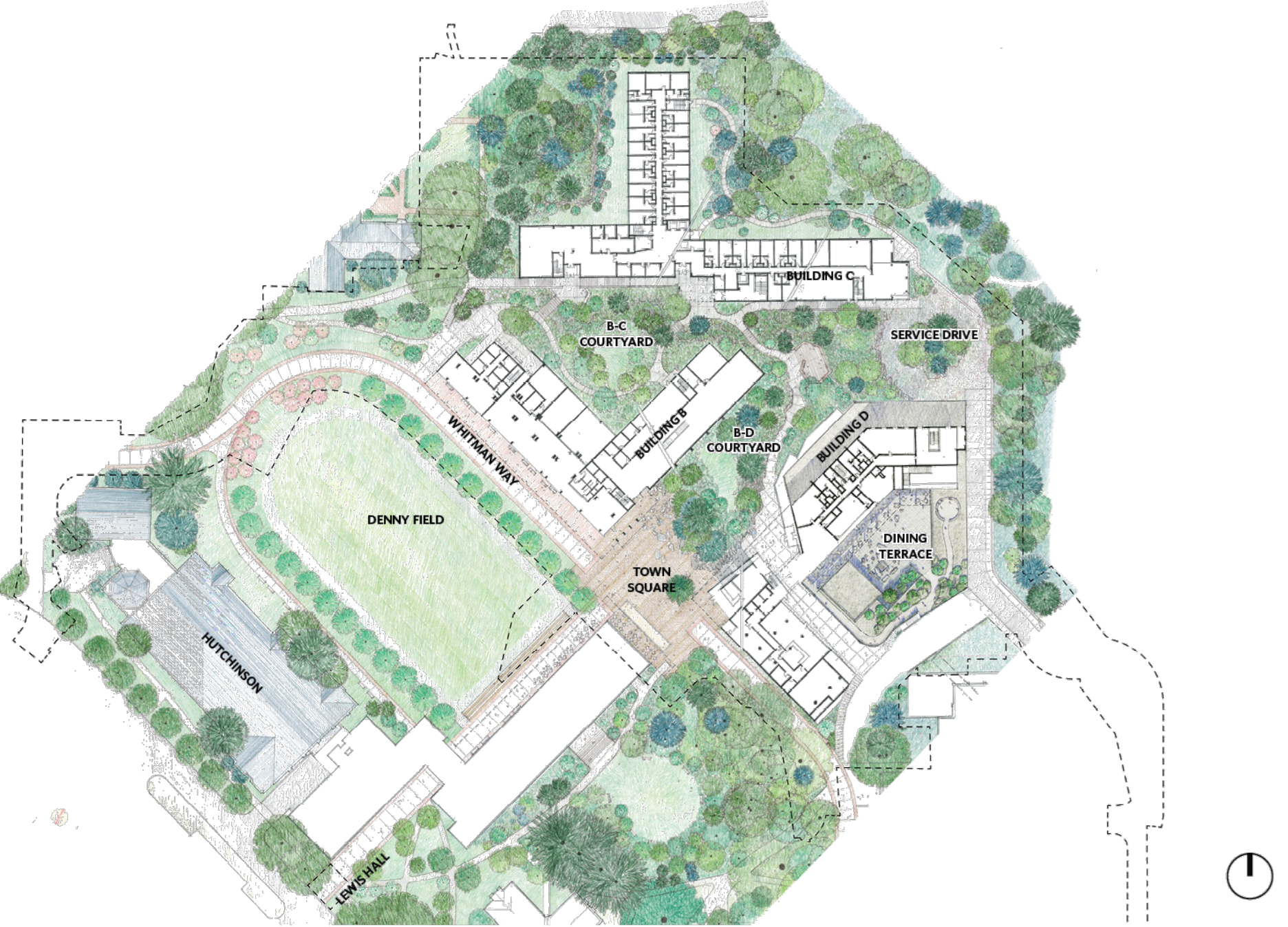
Housing Elevations – Transverse facades; Floor Lounges - Lanterns

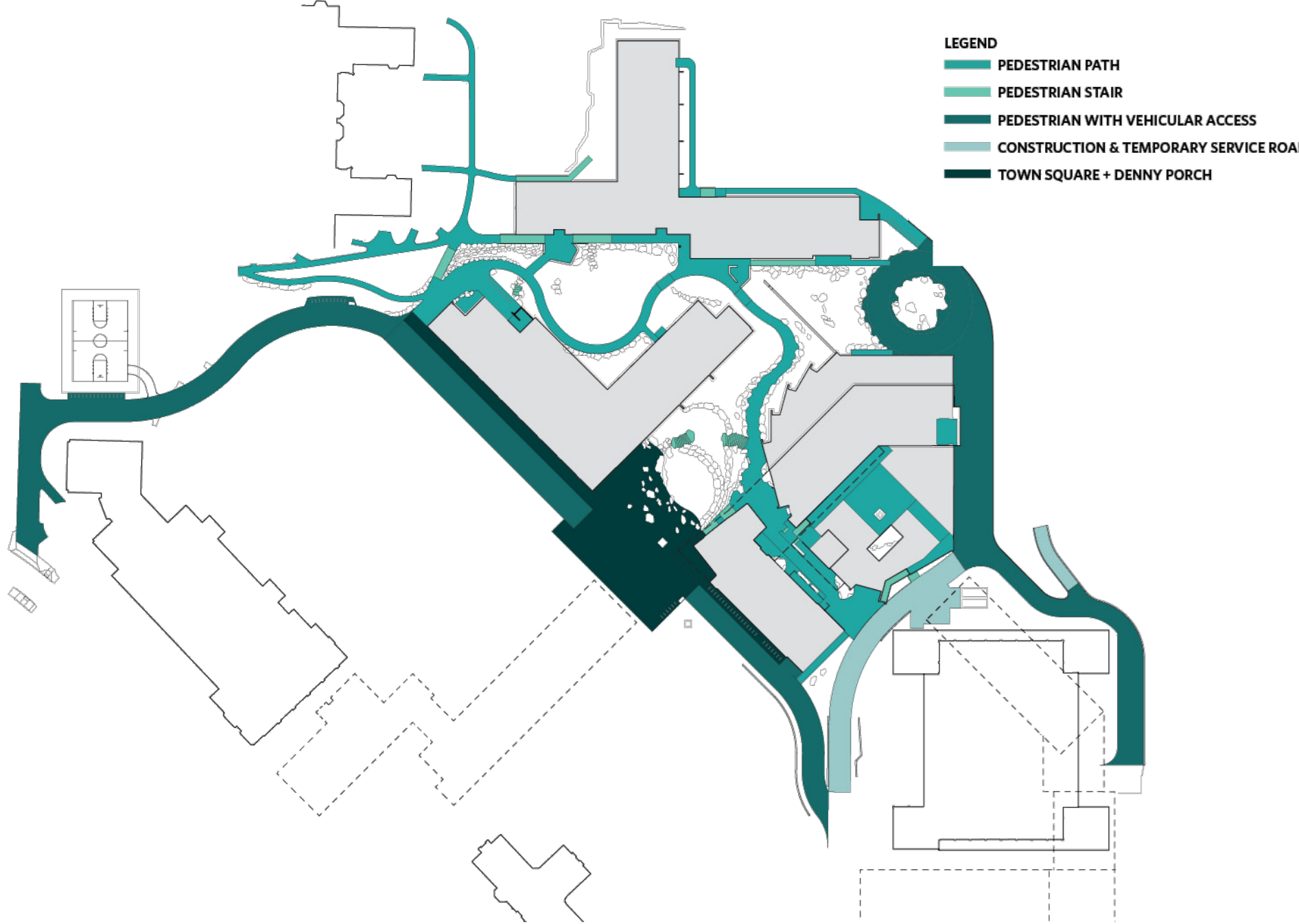


CHELAN LANE TOWN SQUARE



OLMSTED AXIS VIEW EAST





LEGEND

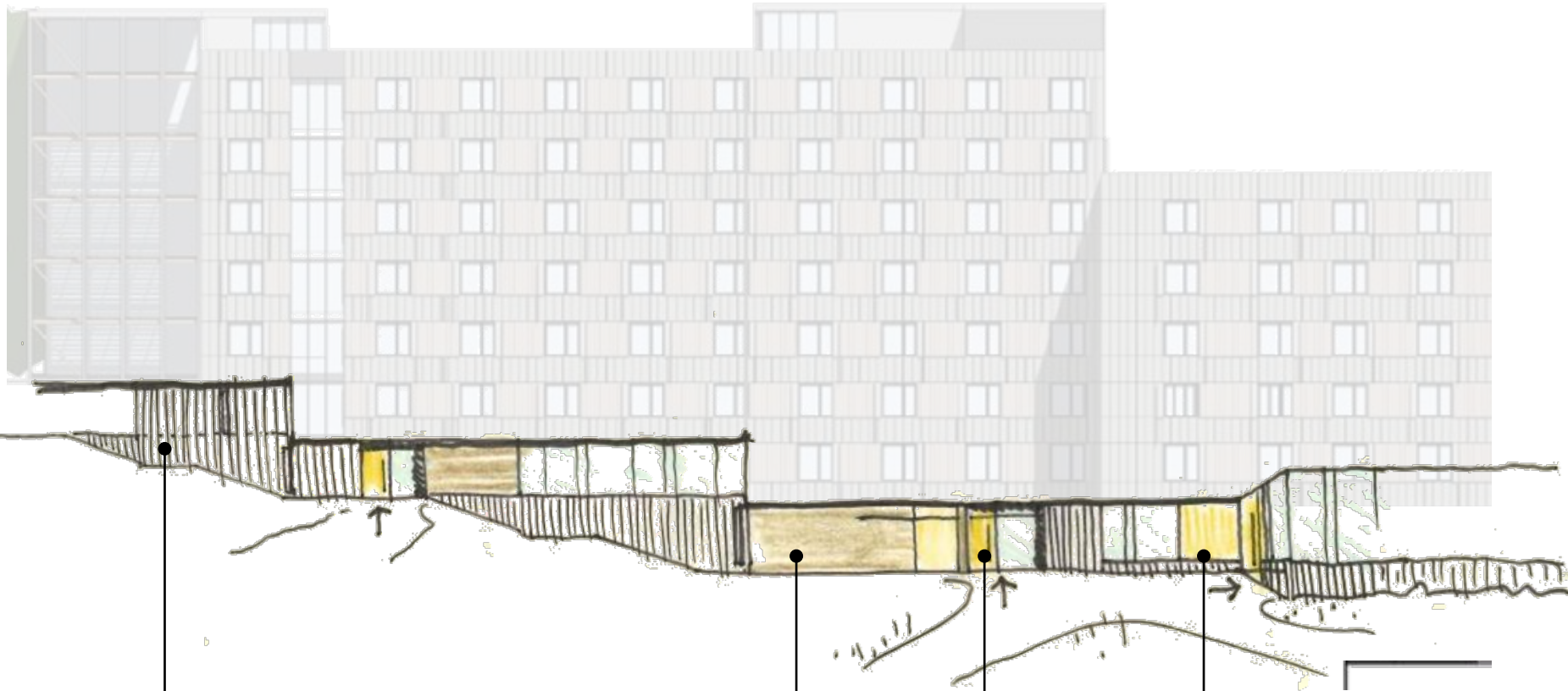
PEDESTRIAN PATH

PEDESTRIAN STAIR

PEDESTRIAN WITH VEHICULAR ACCESS

CONSTRUCTION & TEMPORARY SERVICE ROAD

TOWN SQUARE + DENNY PORCH



CONCRETE
RETAINING/SITE/
TYPICAL WALL

BRICK
DESIGNATES
BUILDING ENTRIES

WOOD DOOR
RESIDENTIAL ENTRY
DOOR

WOOD PANELLING
USED TO HIGHLIGHT
BUILDING ENTRY

**BRICK WITH BOARD FORMED
CONC. BASE**



**TERRACOTTA PANELS WITH
BOARD FORMED CONC. BASE**



**METAL PANELS WITH
BRICK BASE**



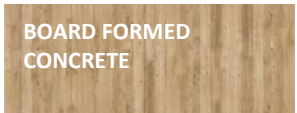
**WESTERN RED CEDAR
WITH BRICK BASE**



**WESTERN RED CEDAR WITH
METAL FINNS, BRICK BASE**



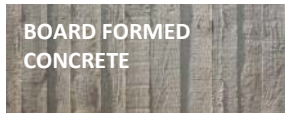
VENTILATED BRICK



**BOARD FORMED
CONCRETE**



**TERRACOTTA
BAGUETTE**



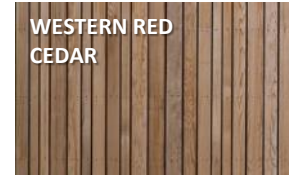
**BOARD FORMED
CONCRETE**



ZINC ALLOY PANEL



BRICK



**WESTERN RED
CEDAR**



BRICK



**WESTERN RED
CEDAR**



BRICK





ARCHITECTURAL COMMISSION REVIEW COMMENTS

9/29/2015

- Announce the lounges and entries.
- Conclusion of formal axis from Arts Quad is positive.
- Simplify landscape in smaller courtyards.
- Study building bases – too many materials.
- Consider using both horizontal and vertical façade patterns.
- Site lighting will be critical to ensure safe and attractive conditions.
- A common element, subtly incorporated into all the facades, would help create a stimulating and interesting environment.
Such an element might be used to establish commonality across a courtyard.

LANDSCAPE ARCHITECTURE COMMISSION REVIEW COMMENTS

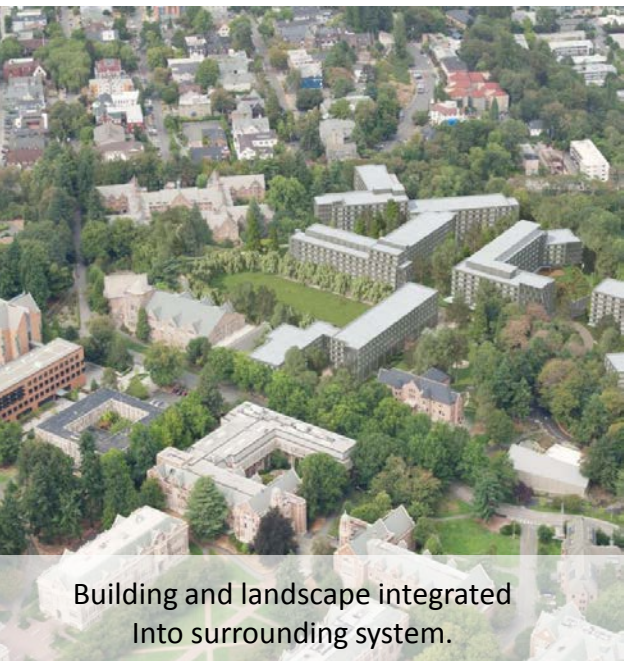
9/24/2015

- Ensure path network is safe, accessible and supports bike use.
- Describe overall sustainability agenda.
- Provide detail on proposed site materials.
- Address concerns with building massing to ensure buildings maintain proportions with open spaces and frame viewsheds.
- Maximize opportunities to promote biodiversity and reduce environmental burdens.
- Provide a less tailored landscape, as parts feel too garden-like.

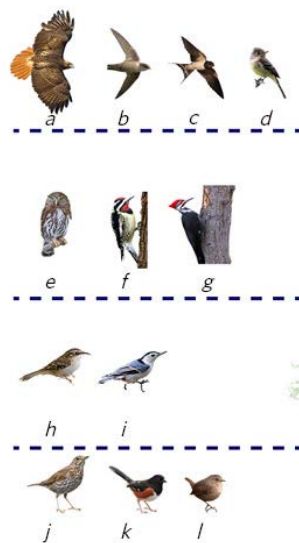


SUSTAINABILITY

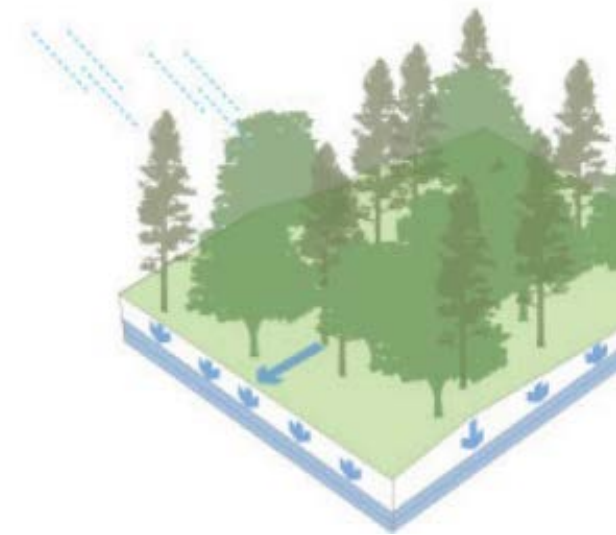




Building and landscape integrated
Into surrounding system.



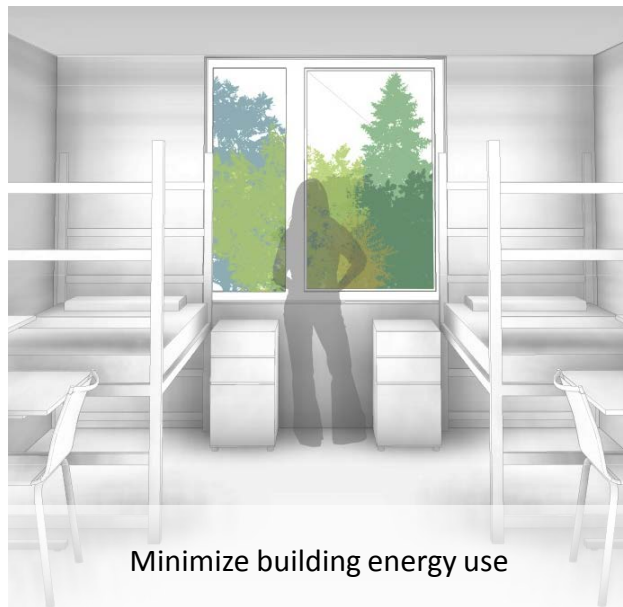
Memorable woodland landscape
spaces that enhance regional biodiversity.



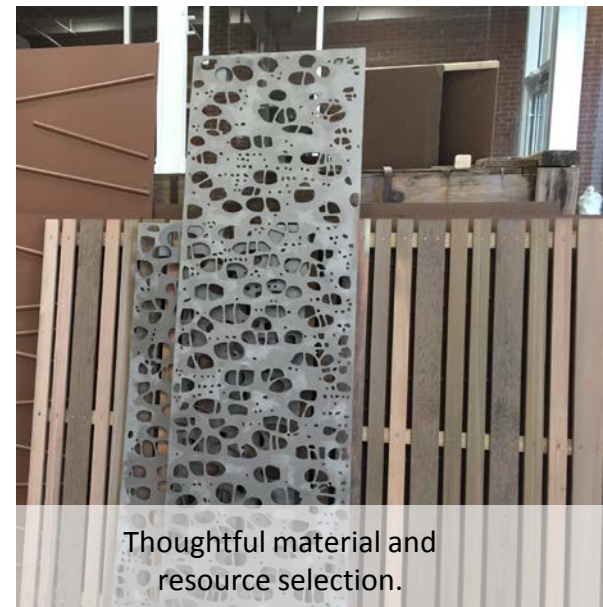
Stormwater management with
climate change over time.



Strengthen human relations to nature.



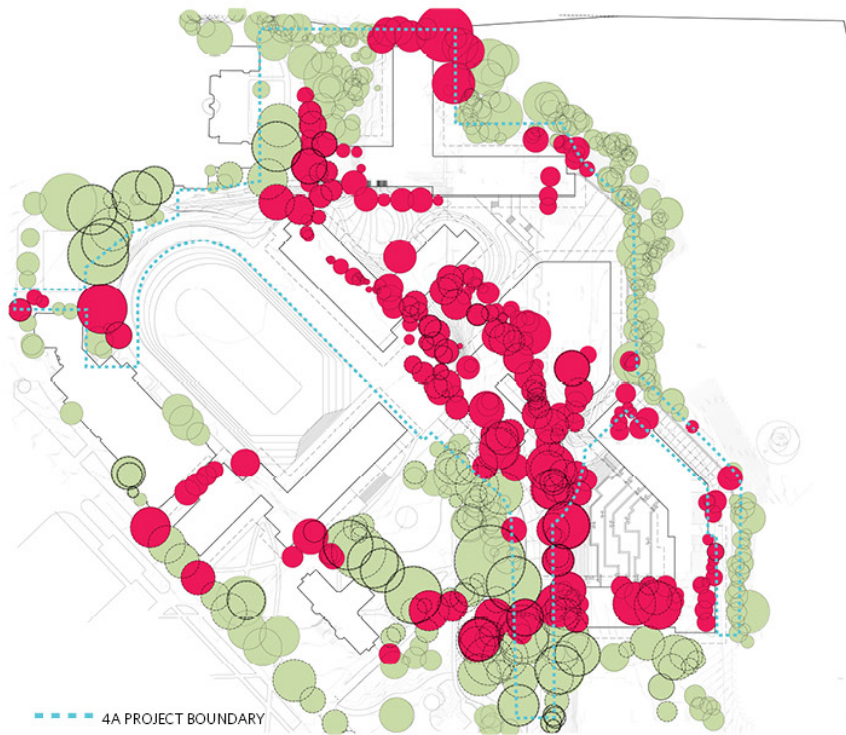
Minimize building energy use



Thoughtful material and
resource selection.



SUSTAINABILITY BUILDINGS AND LANDSCAPE INTEGRATED INTO SURROUNDING ECOSYSTEM

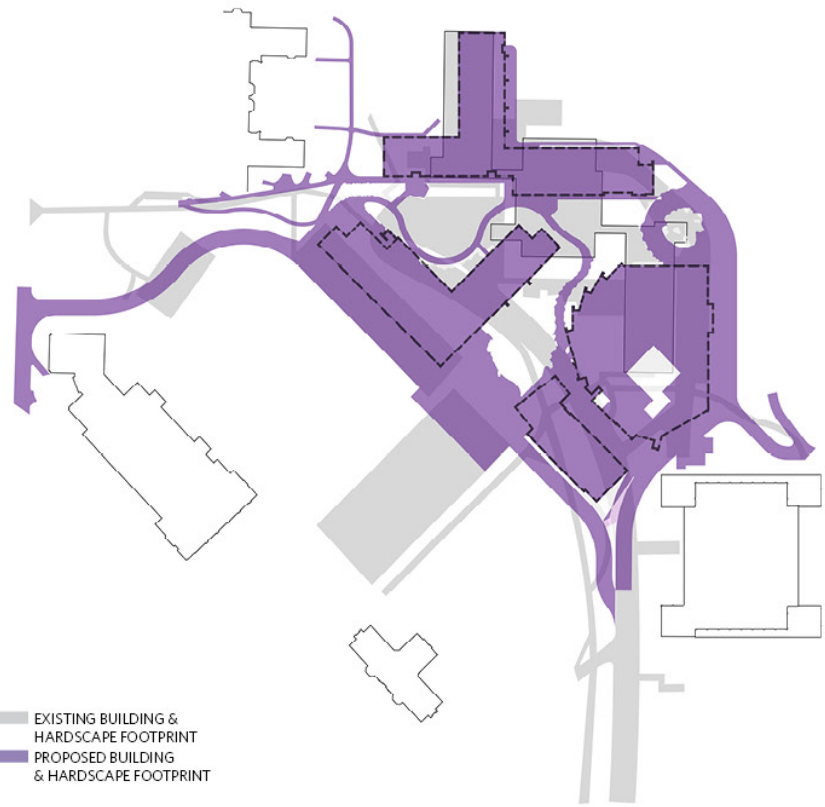


--- 4A PROJECT BOUNDARY

● TREES TO BE REMOVED -265

● TREES TO REMAIN -206

TOTAL EXISTING TREES WITHING
4A + 4B
PROJECT EXTENTS - 471



■ EXISTING BUILDING & HARDSCAPE FOOTPRINT

■ PROPOSED BUILDING & HARDSCAPE FOOTPRINT

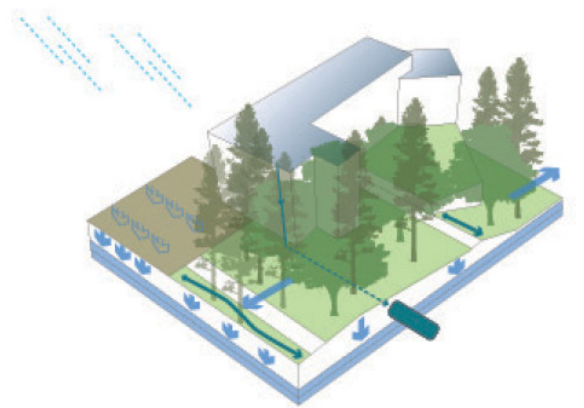
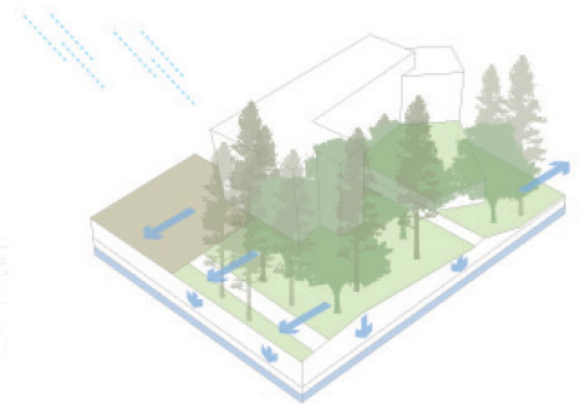
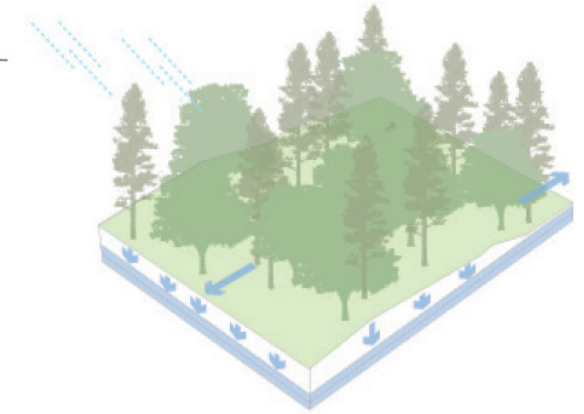


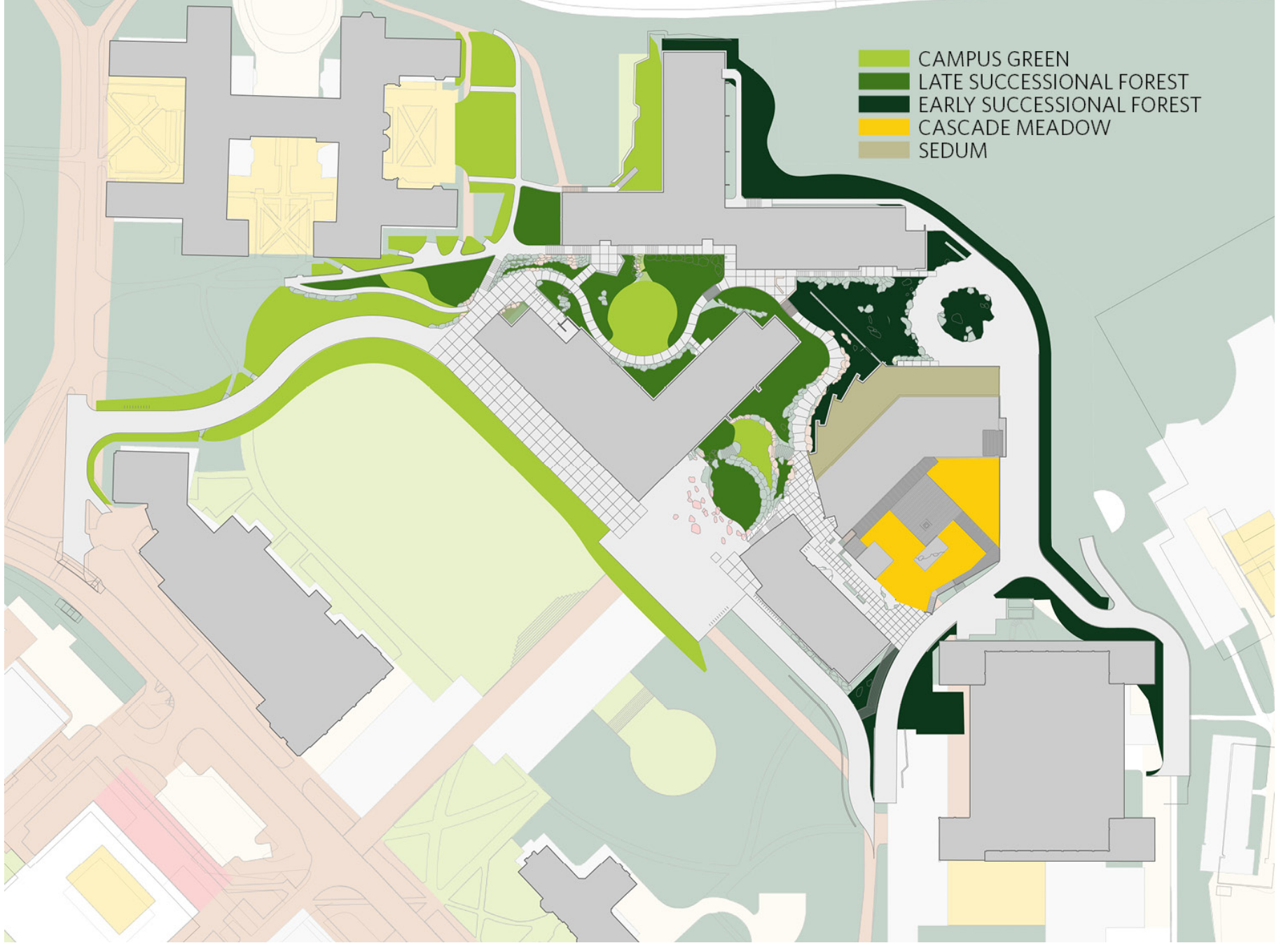
--- 4A PROJECT BOUNDARY

● PROPOSED TREES - 270

○ TREES TO REMAIN - 206

TOTAL TREES AT 4A + 4B
PROJECT COMPLETION - 476





SUSTAINABILITY FOREST PRESERVATION & BIODIVERSITY





Stump growth: for article on forest regeneration 1970.

TREES

- *Acer circinatum* (Vine Maple)
- *Alnus rubra* (Red Alder)
- *Pseudotsuga menziesii* (Douglas Fir)
- *Tsuga heterophylla* (Western Hemlock)

SHRUBS

- *Cornus stolonifera* (Red Osier Dogwood)
- *Mahonia aquifolium* (Oregon Grape)

GROUNDCOVER

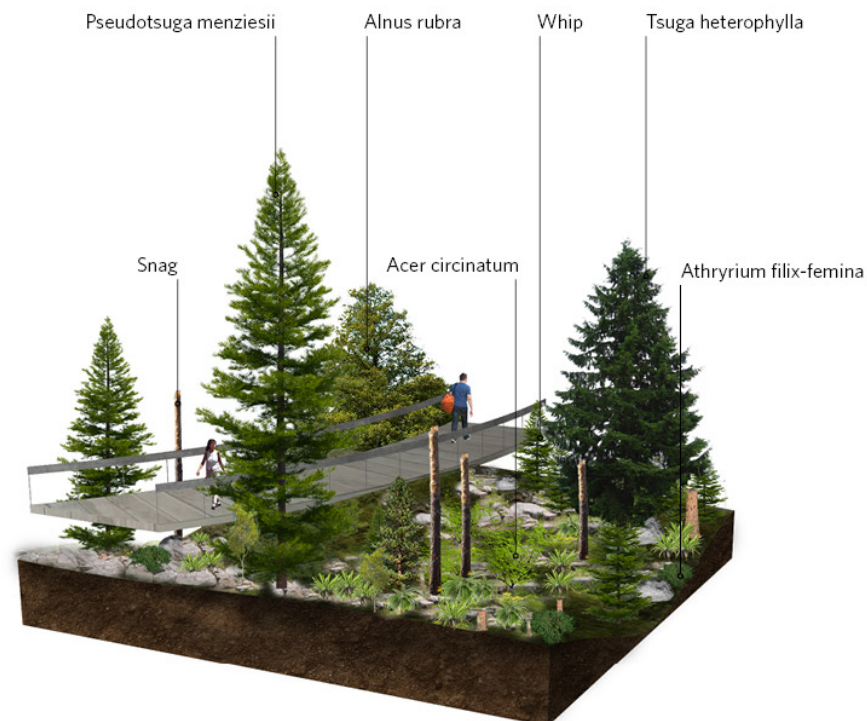
- *Athyrium filix-femina* (Lady Fern)
- *Polystichum munitum* (Western Swordfern)
- *Dicentra formosa* (Pacific Bleeding Heart)
- *Maianthemum dilatatum* (False Lilly of the Valley)
- *Maianthemum racemosum* (False Spikenard)
- *Tellima grandiflora* (Fringecups)

WHIPS

- *Acer circinatum* (Vine Maple)
- *Alnus rubra* (Red Alder)
- *Pseudotsuga menziesii* (Douglas Fir)
- *Tsuga heterophylla* (Western Hemlock)

SNAGS

COPPICING



EARLY SUCCESSIONAL FOREST TYPOLOGY

TREES

- *Acer circinatum* (Vine Maple)
- *Acer macrophyllum* (Bigleaf Maple)
- *Aesculus hippocastanum* (Horse-chestnut)
- *Arbutus menziesii* (Pacific Madrone)
- *Chamaecyparis nootatensis* (Alaskan Cypress)
- *Populus trichocarpa* (Black Cottonwood)
- *Populus tremuloides* (Quaking Aspen)
- *Pseudotsuga menziesii* (Douglas Fir)
- *Thuja plicata* (Western Red Cedar)
- *Sequoia sempervirens* (Coast Redwood)

GROUNDCOVER

FERN MIX 1

- *Athyrium filix-femina* (Lady Fern)
- *Oxalis oregana* (Redwood Sorrel)
- *Polystichum munitum* (Swordfern)

FERN MIX 2

- *Blechnum spicant* (Deer Fern)
- *Gymnocarpium dryopteris* (Western Oakfern)
- *Oxalis oregana* (Redwood Sorrel)

BIORETENTION MIX

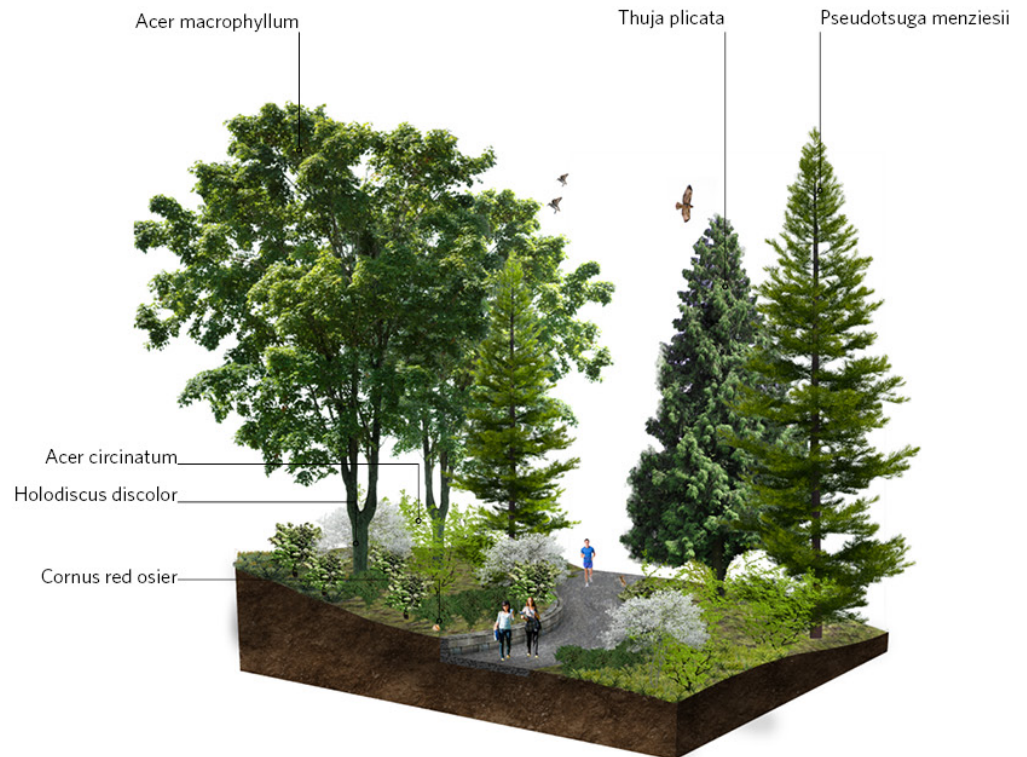
- *Carex obnupta* (Slough Sedge)
- *Carex stipata* (Awl Fruit Sedge)
- *Carex pachystachya* (Chamisso sedge)
- *Juncus ensifolius* (Swordleaf Rush)
- *Schoenoplectus tabernaemontani* (Softstem Bulrush)
- *Scirpus microcarpus* (Small-Fruited Bulrush)

WOODLAND MIX

- *Dicentra formosa* (Pacific Bleeding Heart)
- *Maianthemum dilatatum* (False Lilly of the Valley)
- *Maianthemum racemosum* (False Solomon's Seal)
- *Tellima grandiflora* (Fringecups)

SHRUBS

- *Cornus stolonifera* (Red Osier Dogwood)
- *Holodiscus discolor* (Ocean Spray)
- *Philadelphus lewisii* (Mock Orange)
- *Rhododendron macrophyllum* (Pacific Rododendron)
- *Ribes sanguineum* (Flowering Current)
- *Symphoricarpos albus* (Common Snowberry)
- *Viburnum Edule* (Squashberry)



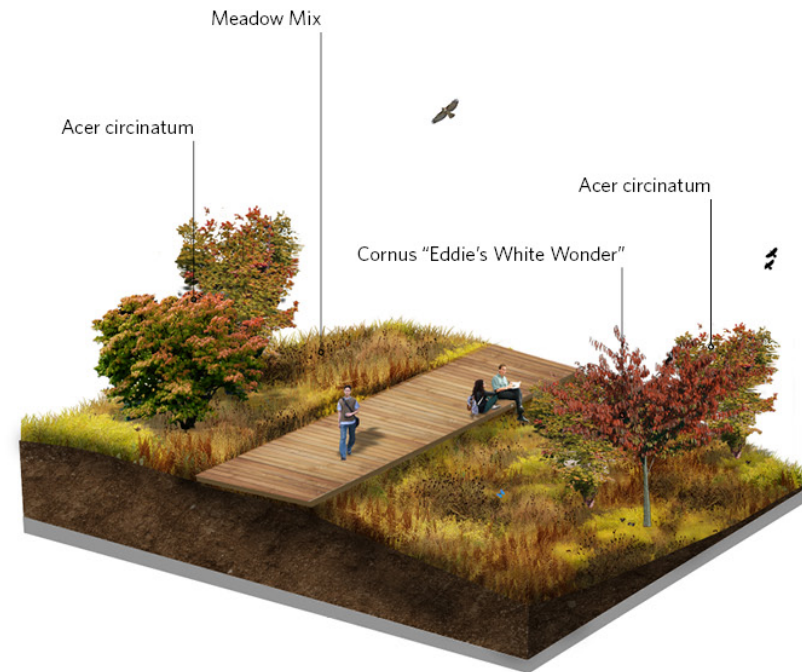
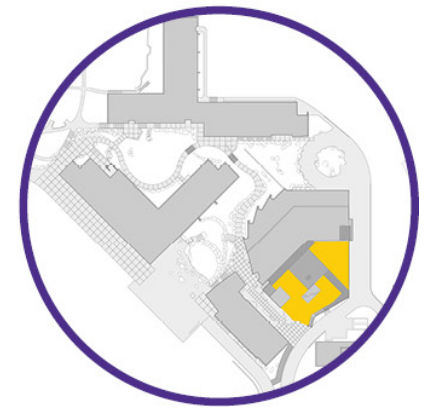
LATE SUCCESSIONAL FOREST TYPOLOGY

TREES

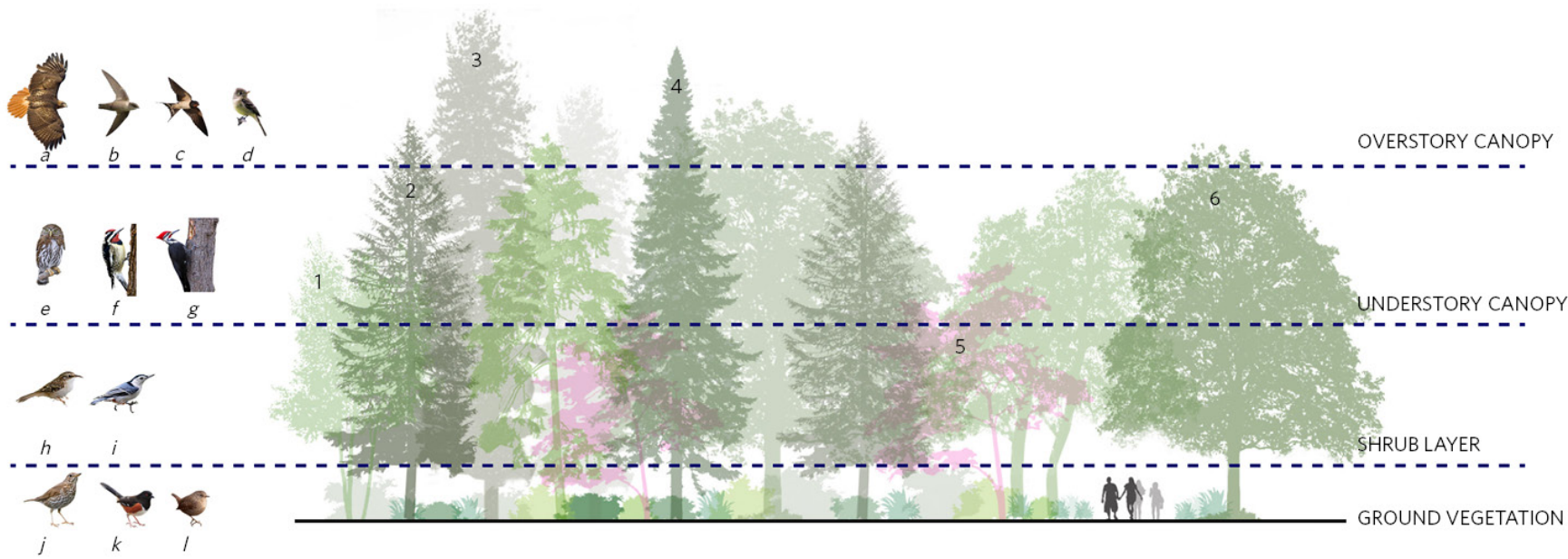
- *Acer circinatum* (Vine Maple)
- *Cornus nuttallii* x *florida* (Cornus "Eddie's White Wonder")

GROUNDCOVER

- *Achillea millefolium* (Yarrow)
- *Delphinium menziesii* (Menzies' larkspur)
- *Eriophyllum lanatum* (Oregon Sunshine)
- *Penstemon serrulatus* (Cascades Penstemo)
- *Symphotrichum subspicatum* (Douglas Aster)



CASCADE MEADOW TYPOLOGY



BIRD SPECIES

- a. Red-Tailed Hawk
- b. Swift
- c. Swallow
- d. Fly-Catcher
- e. Pygmy Owl
- f. Sapsucker

- g. Pileated Woodpecker
- h. Brown Creeper
- i. Nuthatch
- j. Thrush
- k. Towhee
- l. Winter Wren

TREE SPECIES

- | | |
|---------------------------------|--------------------|
| 1. <i>Betula papyrifera</i> | Paper Birch |
| 2. <i>Tsuga heterophylla</i> | Western Hemlock |
| 3. <i>Pinus monticola</i> | Western White Pine |
| 4. <i>Pseudotsuga menziesii</i> | Douglas Fir |
| 5. <i>Cornus nuttallii</i> | Pacific Dogwood |
| 6. <i>Acer macrophyllum</i> | Big Leaf Maple |

TREES

- *Cercis canadensis* (Eastern Redbud)
- *Halesia carolina* (Carolina Silverbell)
- *Populus tremuloides* (Quaking Aspen)
- *Prunus sargentii* (Sargent's Cherry)
- *Prunus subhirtella* (Higan Cherry)
- *Ulmus parvifolia* (Chinese Elm)
- *Salix babylonica* (Weeping Willow)

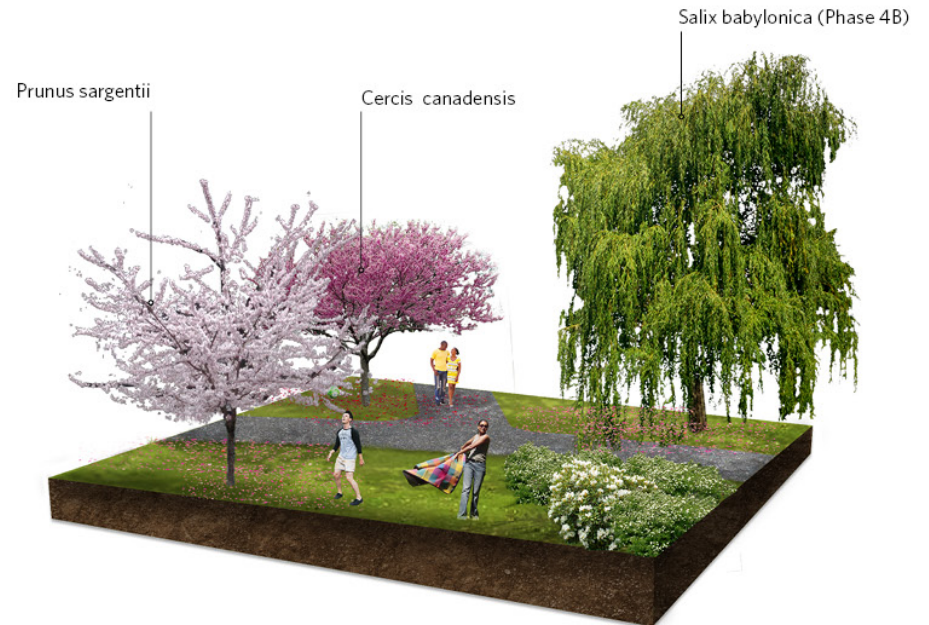


SHRUBS

- *Holodiscus discolor* (Ocean Spray)
- *Philadelphus lewisii* (Mock Orange)
- *Rhododendron macrophyllum* (Pacific Rododendron)

GROUNDCOVER

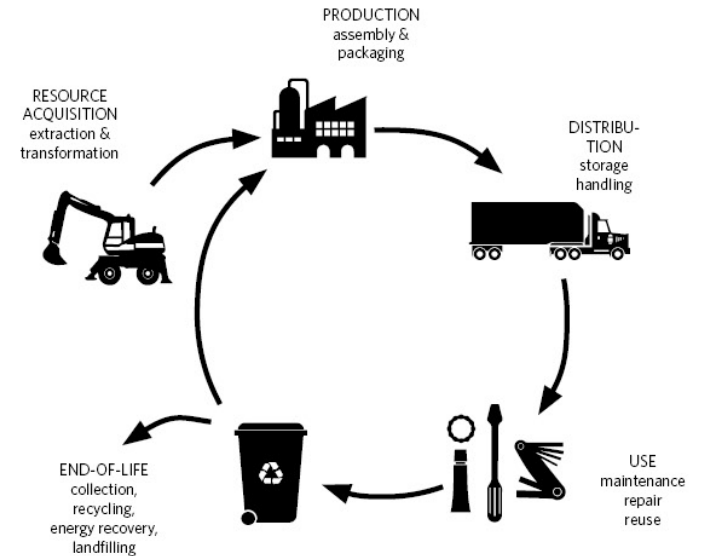
- Lawn (Ryegrass/Fescue/Bluegrass blend)



CAMPUS GREEN TYPOLOGY

	 <p>WARM MIX ASPHALT (20% RAP)</p>	 <p>CONCRETE</p>	 <p>BRICK</p>
MATERIAL	<ul style="list-style-type: none"> stone aggregate recycled aggregate bitumen 	<ul style="list-style-type: none"> virgin stone aggregate Portland cement 	<ul style="list-style-type: none"> clay
EMBODIED ENERGY (MJ/metric ton)	7,112	790	3,000
EMBODIED CARBON (KG CO2/metric ton)	177	116	232
DISTRIBUTION	local (<50 mi)	local (<50 mi)	global (> 500 mi)
USE AND MAINTENANCE	repair 5 y replace top layer 15-20 y	repair 5 y replacement 30-40 y	repair 5 y replacement 100+ y
RECOVERY/REUSE	reprocessing	reprocessing	recovery
TOXICITY	Oils and emulsions known carcinogens	Cement kilns offgas heavy metals	none
Additional Considerations	<ul style="list-style-type: none"> Figures assume at least 20% recycled asphalt Reduce fossil fuel use at plant Decreased emissions at plant Decreased worker exposure to emissions during placement Reduces first costs Utilizes additive mix WDOT & SDOT approved 	<ul style="list-style-type: none"> Figures would improve with recycled concrete 	<ul style="list-style-type: none"> Greater transport distance and kiln-firing increase footprint
TOTAL SQ. FEET	48,223 SF	26,825 SF	11,278 SF
PERCENTAGE OF HARDSCAPE	48%	26%	11%

SOURCES:
 • *Materials for Sustainable Sites* by Meg Calkins (2009)
 • *The Sustainable Sites Handbook* by Meg Calkins (2011)

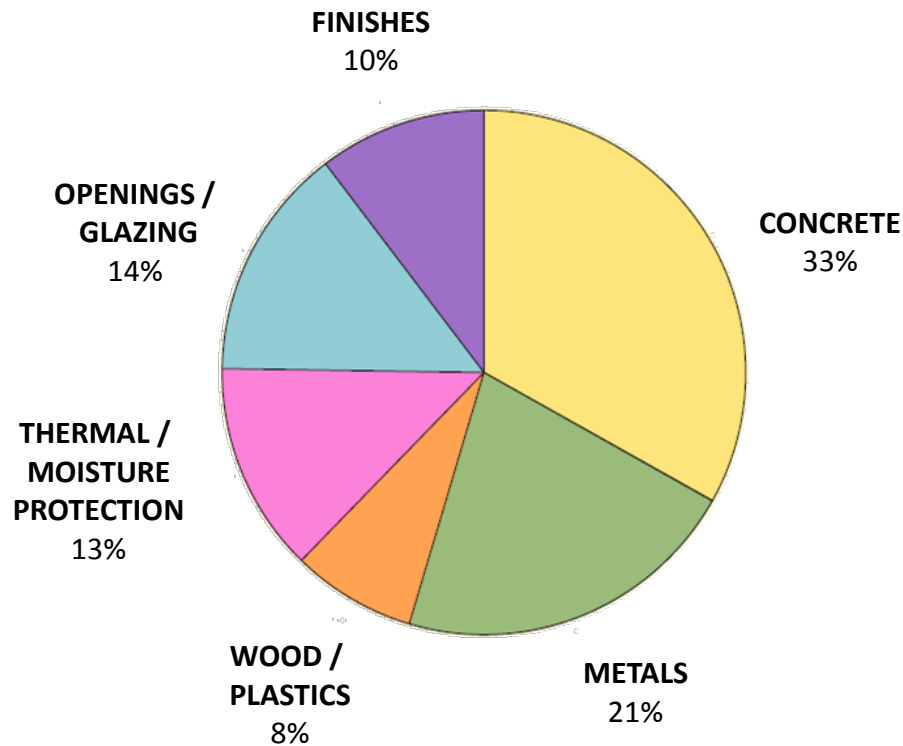


15% Boulders, Concrete Planks, Deck Tile, River Rock Edging, Stepping Stone, Stone Fines

- ROMAN BRICK
- CONCRETE
- ASPHALT



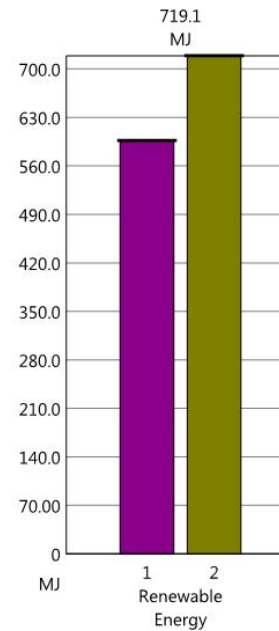
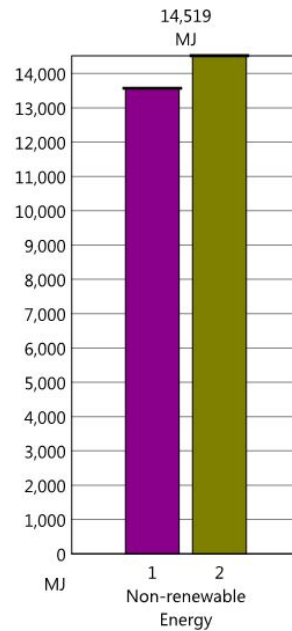
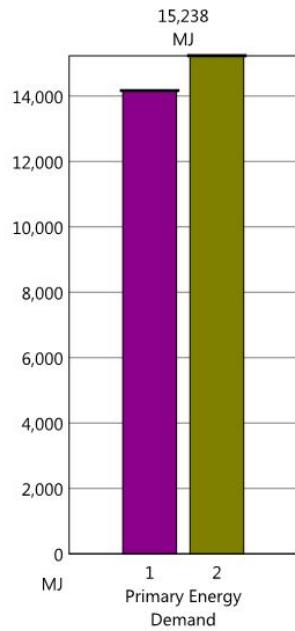
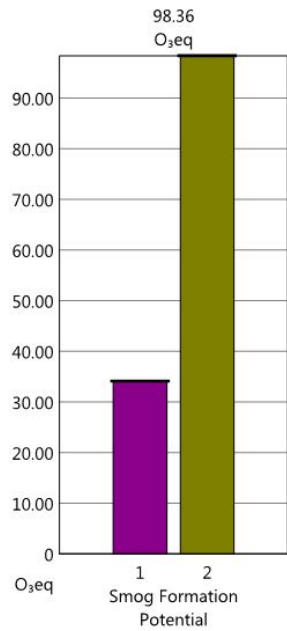
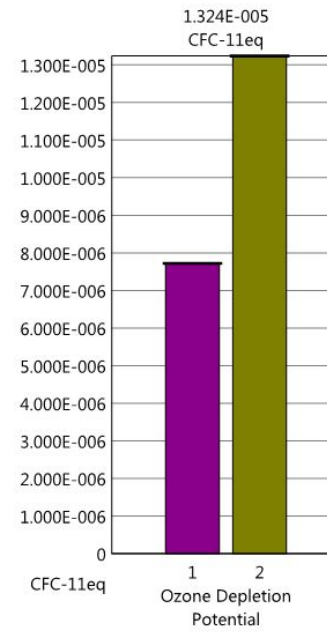
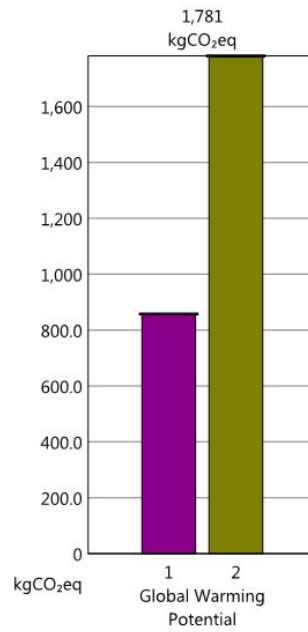
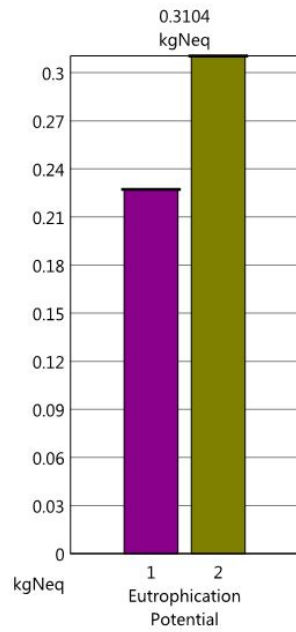
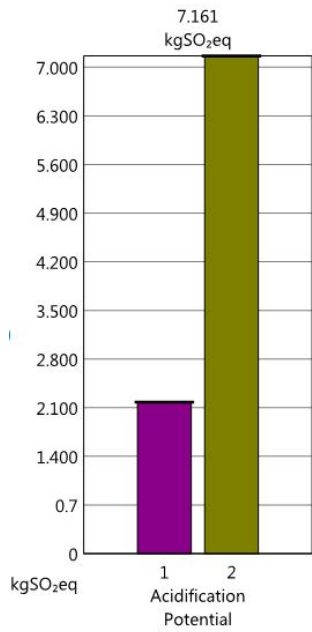
GLOBAL WARMING POTENTIAL



- Concrete contributes the most to Global Warming Potential
- Concrete impacts could be reduced through optimization of concrete mix or through reduction of use of concrete, such as by increasing the amount of brick used
- Wood currently contributes under 10% of total impacts even though it provides the majority of the structure and is in use on the façade
- Increasing the ratio of wood to metal used in the façade would reduce environmental impacts



- Carbon sequestration related to use of wood-framed construction and façade cladding.
- Embodied energy in wood is vastly less than in concrete and masonry.
- Increase in student density decreases number of students commuting. (Only 4% of on-campus students have cars.)
- There is no cooling within residential spaces.
- Heating in residential spaces is through electric resistance base board units. Electric supply in Seattle is provided from 100% renewable sources, mostly hydro.
- Thermally efficient windows are used throughout the residential areas.



Design Options

- Brick (primary)
- Conc.

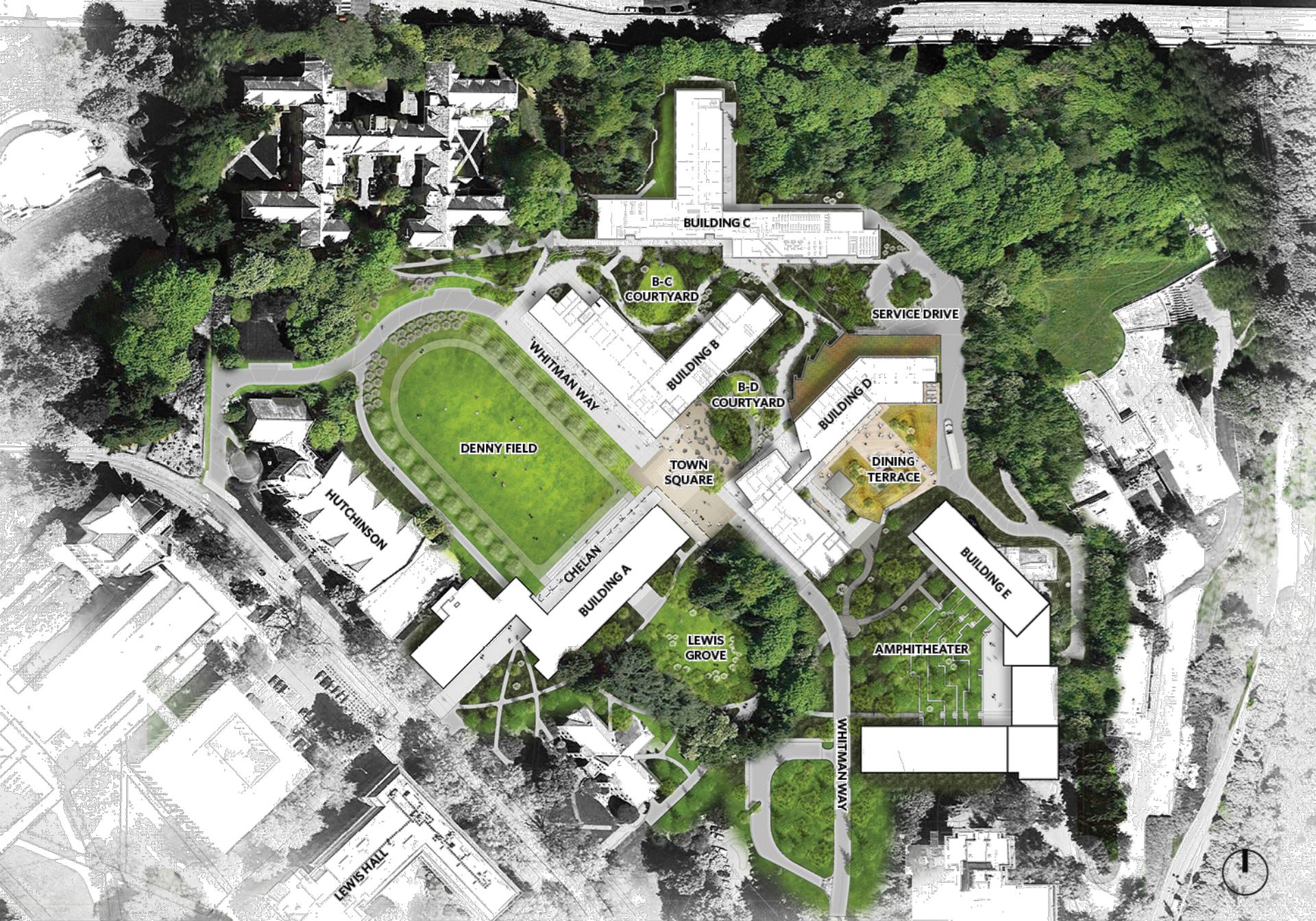


DESIGN DEVELOPMENT

KIERAN TIMBERLAKE



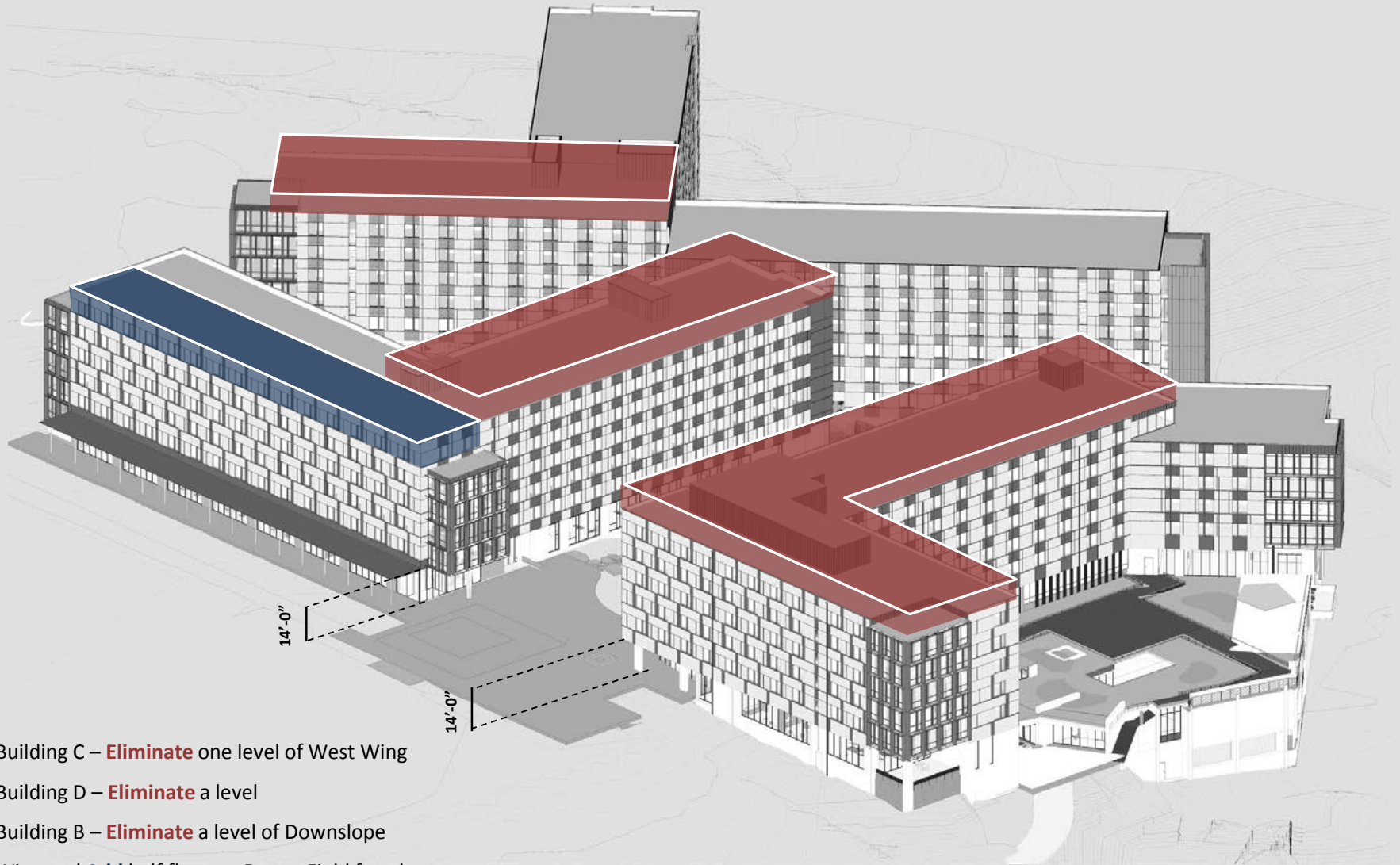
DESIGN DEVELOPMENT OVERALL SITE PLAN – PHASE IVA



DESIGN DEVELOPMENT OVERALL SITE PLAN – COMPLETED PHASE IV

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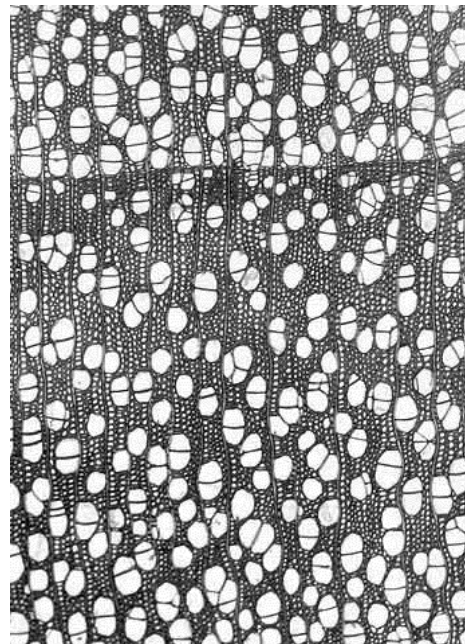
- Building C – **Eliminate** one level of West Wing
- Building D – **Eliminate** a level
- Building B – **Eliminate** a level of Downslope Wing and **Add** half floor on Denny Field façade
- Increase F-T-F heights in all buildings



DESIGN DEVELOPMENT PERSPECTIVE VIEW

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DESIGN DEVELOPMENT FIELD FAÇADE PATTERNING CONCEPT

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DESIGN DEVELOPMENT FIELD FAÇADE PATTERNING - FRIEZE

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DESIGN DEVELOPMENT FIELD FAÇADE PATTERNING - VERTICAL

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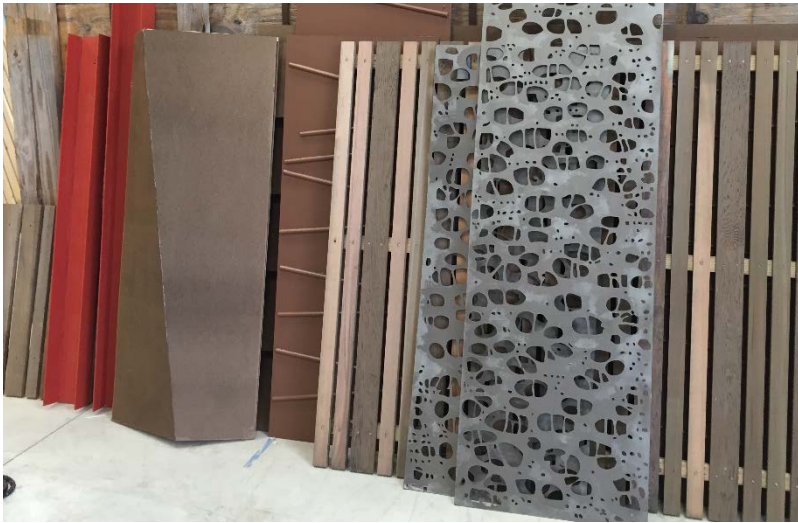
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DESIGN DEVELOPMENT FIELD FAÇADE PATTERNING – MOCKUP PANEL

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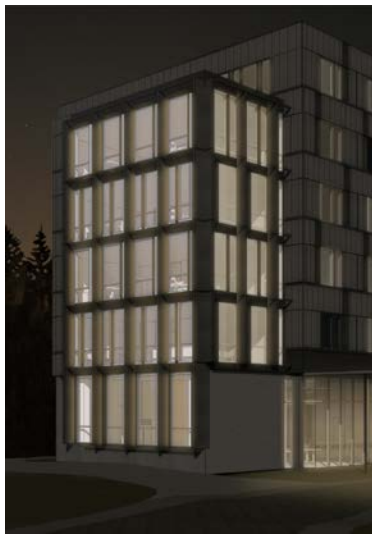
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BUILDING B
TOWN SQUARE



BUILDING B
DENNY FIELD



BUILDING C
MID-SLOPE PATH

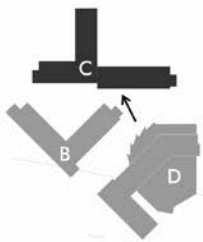


BUILDING D
WHITMAN WAY



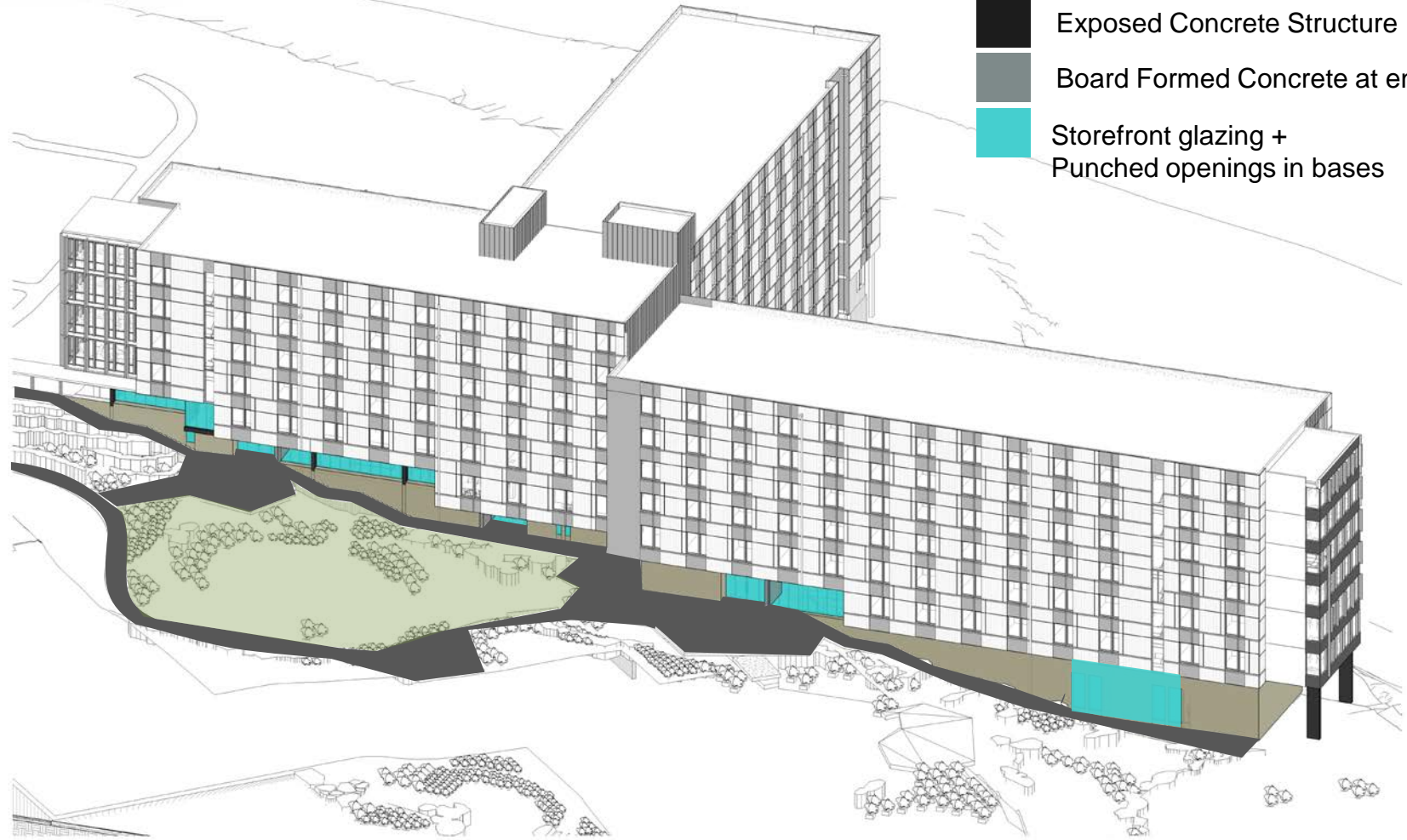
BUILDING D
BUILDING E

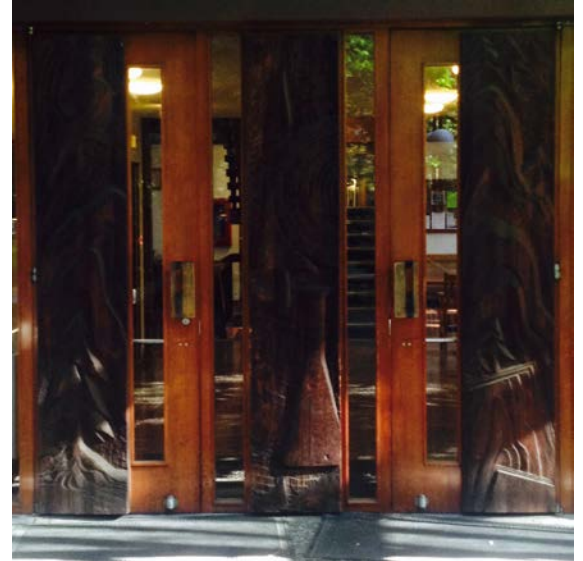




BASE DESIGN – GUIDING PRINCIPLES

- Terraced brick plinths
- Exposed Concrete Structure
- Board Formed Concrete at entries
- Storefront glazing + Punched openings in bases





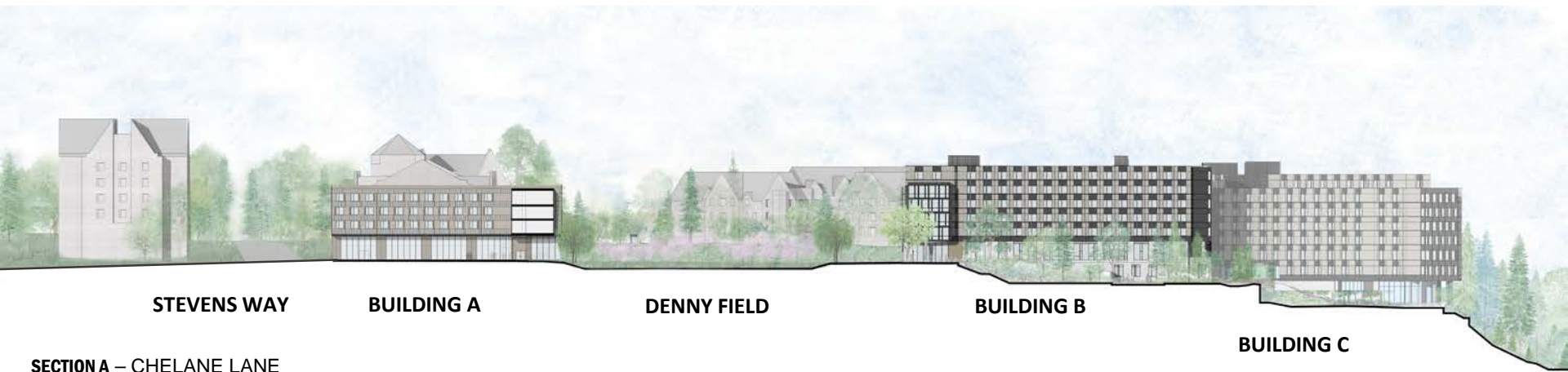


DESIGN DEVELOPMENT BUILDING BASE DESIGN

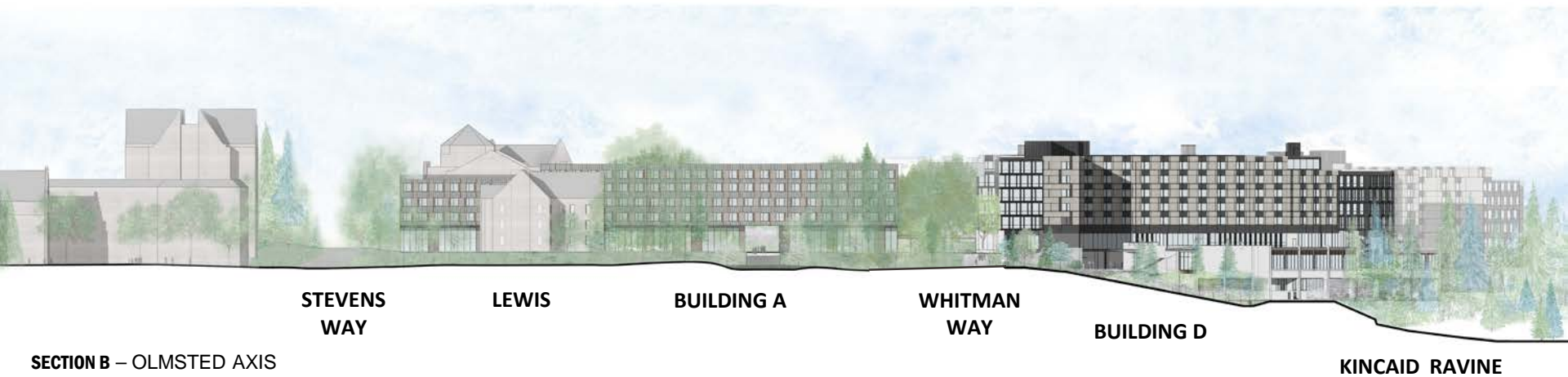
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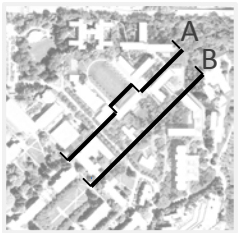




SECTION A – CHELANE LANE



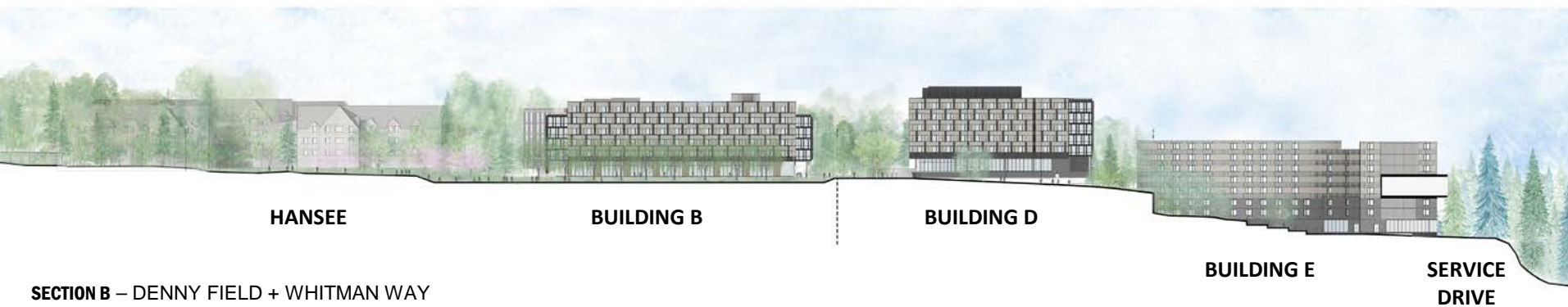
SECTION B – OLMSTED AXIS



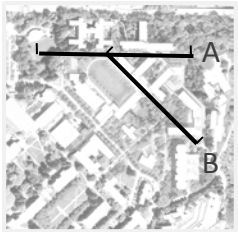
DESIGN DEVELOPMENT SITE SECTIONS



SECTION A – BC COURTYARD



SECTION B – DENNY FIELD + WHITMAN WAY



DESIGN DEVELOPMENT SITE SECTIONS

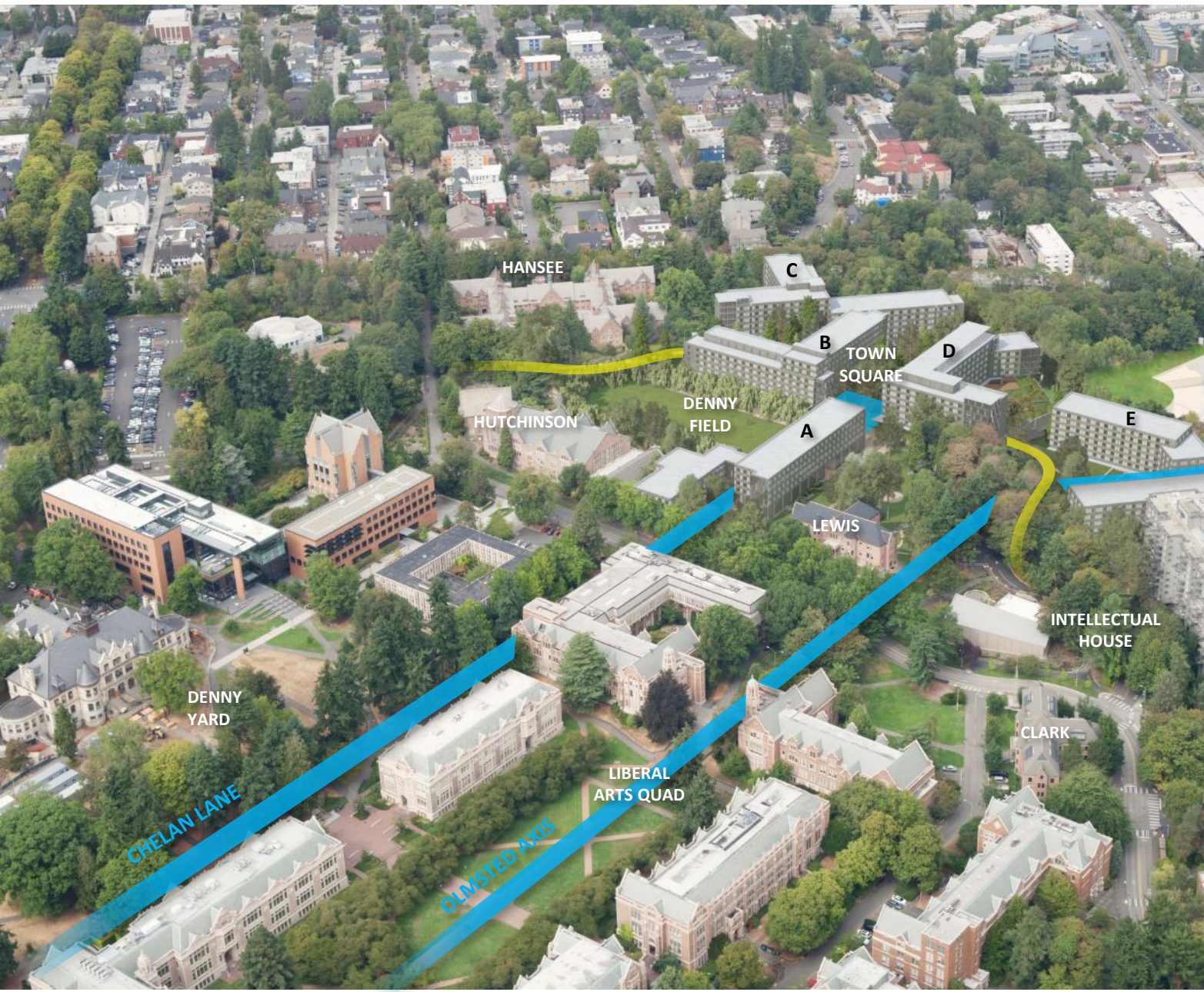


PHASE IVA WALKTHROUGH



LEGEND

- SEQUENCE PATH
- ENLARGEMENT AREA



CHELAN LANE
TOWN SQUARE
TOWN SQUARE



OLMSTED AXIS
VIEW EAST



PHASE IVA WALKTHROUGH TOWN SQUARE – PERSPECTIVE VIEW FROM DENNY FIELD

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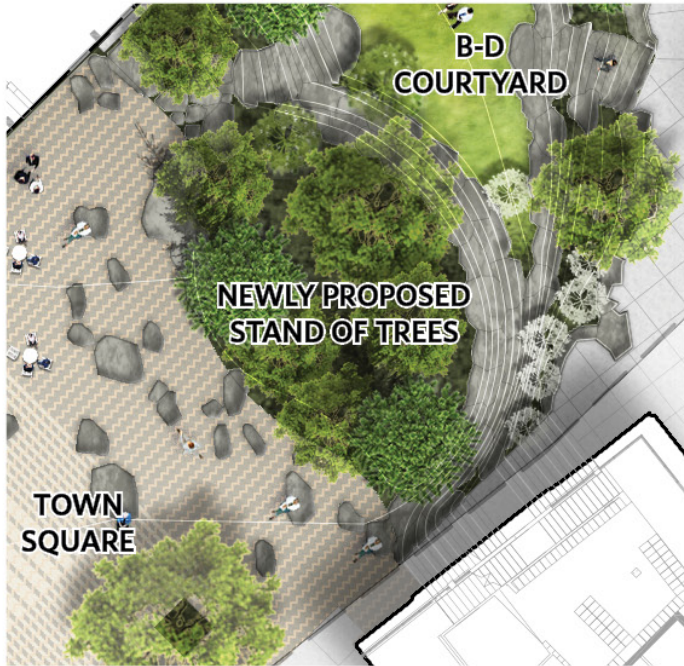
FOCAL SQUARE



LARGE SQUARE



BORDER SQUARE



Big Leaf Maple (*Acer macrophyllum*)



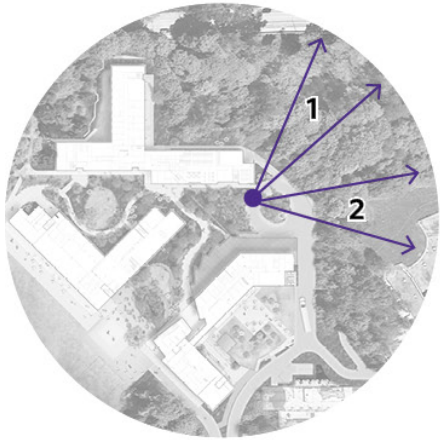
Madronas (*Arbutus menziesii*)



Eddie's White Wonder Dogwood (*Cornus*)



Noble Fir (*Abies procera*)



1

FENCING

UNIVERSITY VILLAGE

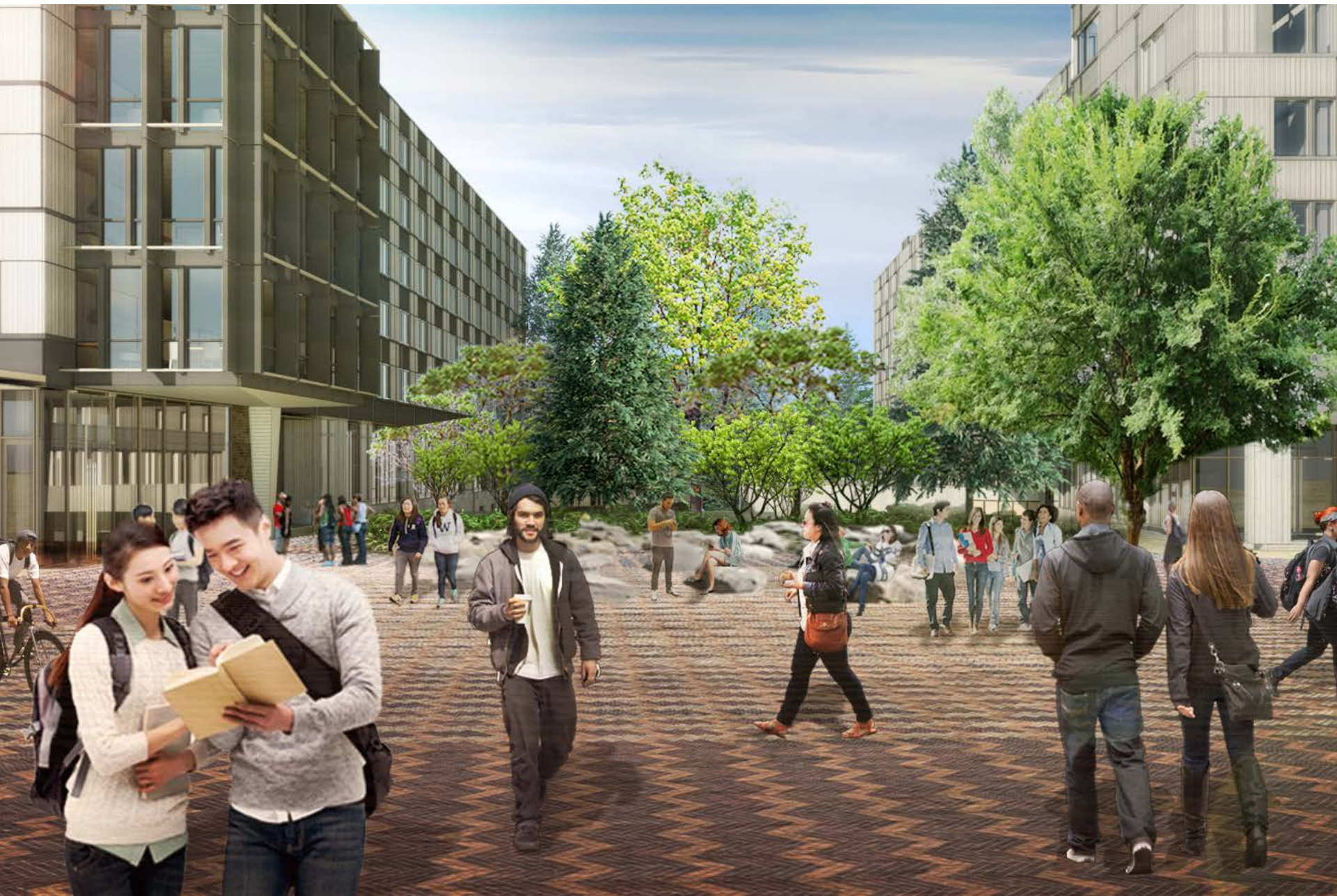


2

NORTH PHYSICS LAB ROOF



PHASE IVA WALKTHROUGH TOWN SQUARE – EXISTING CHELAN AXIS VIEWS



PHASE IVA WALKTHROUGH TOWN SQUARE – PERSPECTIVE VIEW FROM BUILDING A

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PHASE IVA WALKTHROUGH PERSPECTIVE FROM BUILDING D TO TOWN SQUARE

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PHASE IVA WALKTHROUGH PLAN OF BUILDING D AND EXTERIOR SPACES

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PHASE IVA WALKTHROUGH PERSPECTIVE FROM WHITMAN WAY TO BUILDING D – PHASE IVA

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PHASE IVA WALKTHROUGH PERSPECTIVE FROM WHITMAN WAY TO BUILDING D – PHASE IVB

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PHASE IVA WALKTHROUGH PLAN OF BUILDING D AND EXTERIOR SPACES

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PHASE IVA WALKTHROUGH PERSPECTIVE THROUGH BUILDING D STREETSCAPE

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PHASE IVA WALKTHROUGH PERSPECTIVE THROUGH BUILDING D STREETScape

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PHASE IVA WALKTHROUGH PERSPECTIVE THROUGH BUILDING D STREETSCAPE

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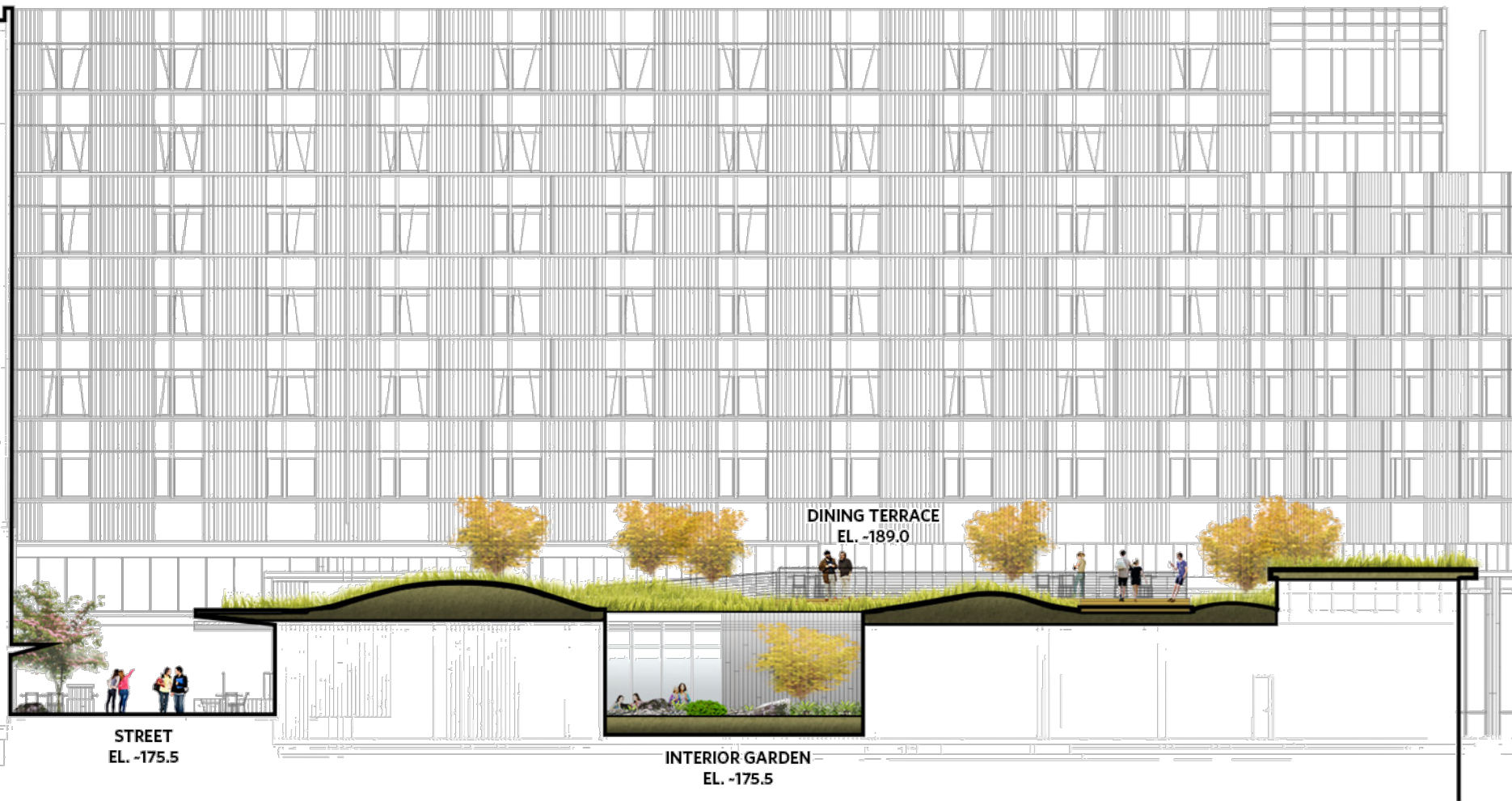
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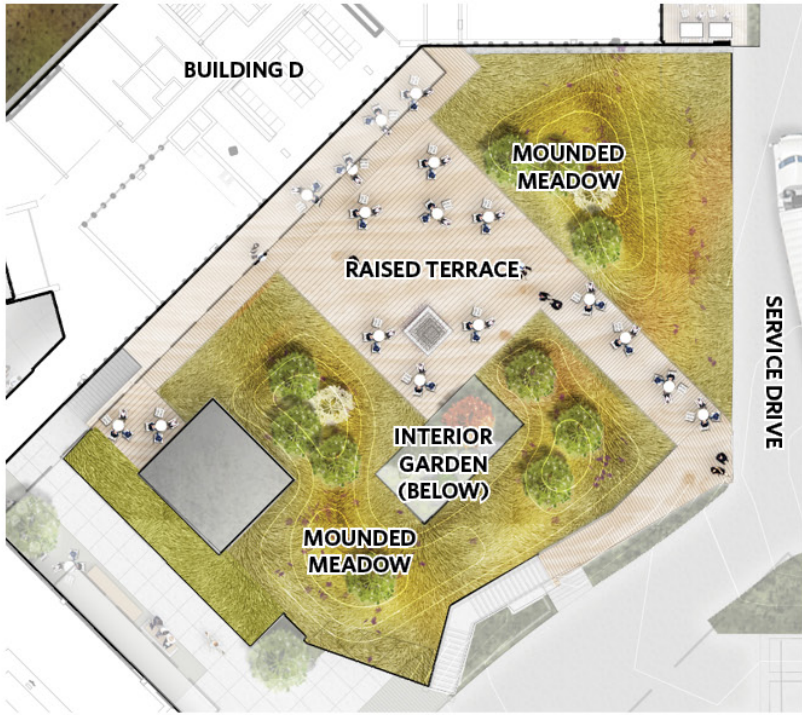
PHASE IVA WALKTHROUGH PLAN OF BUILDING D AND EXTERIOR SPACES

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PHASE IVA WALKTHROUGH SECTION THROUGH BUILDING D EXTERIOR SPACES



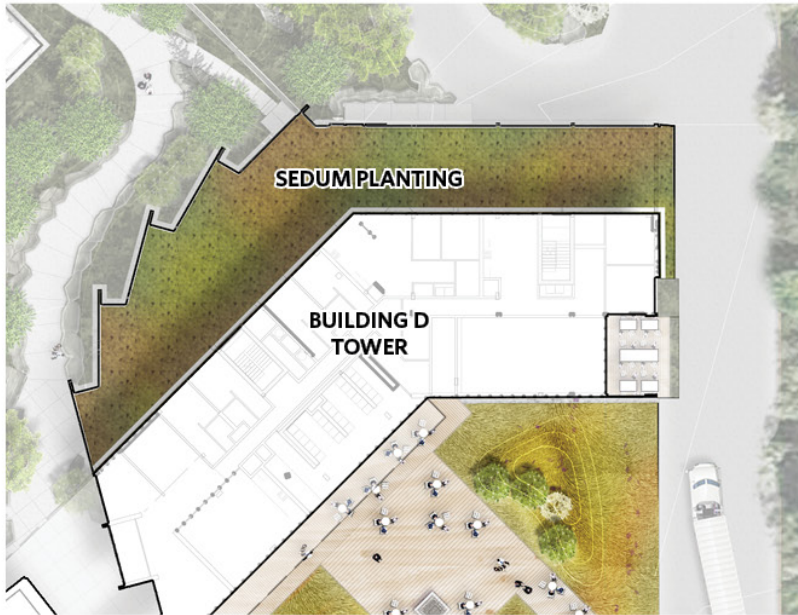
Latter Day Saints Convention Center



Washington Mutual Center



Enso Apartment Terrace



Yale University



Bill & Melinda Gates Foundation



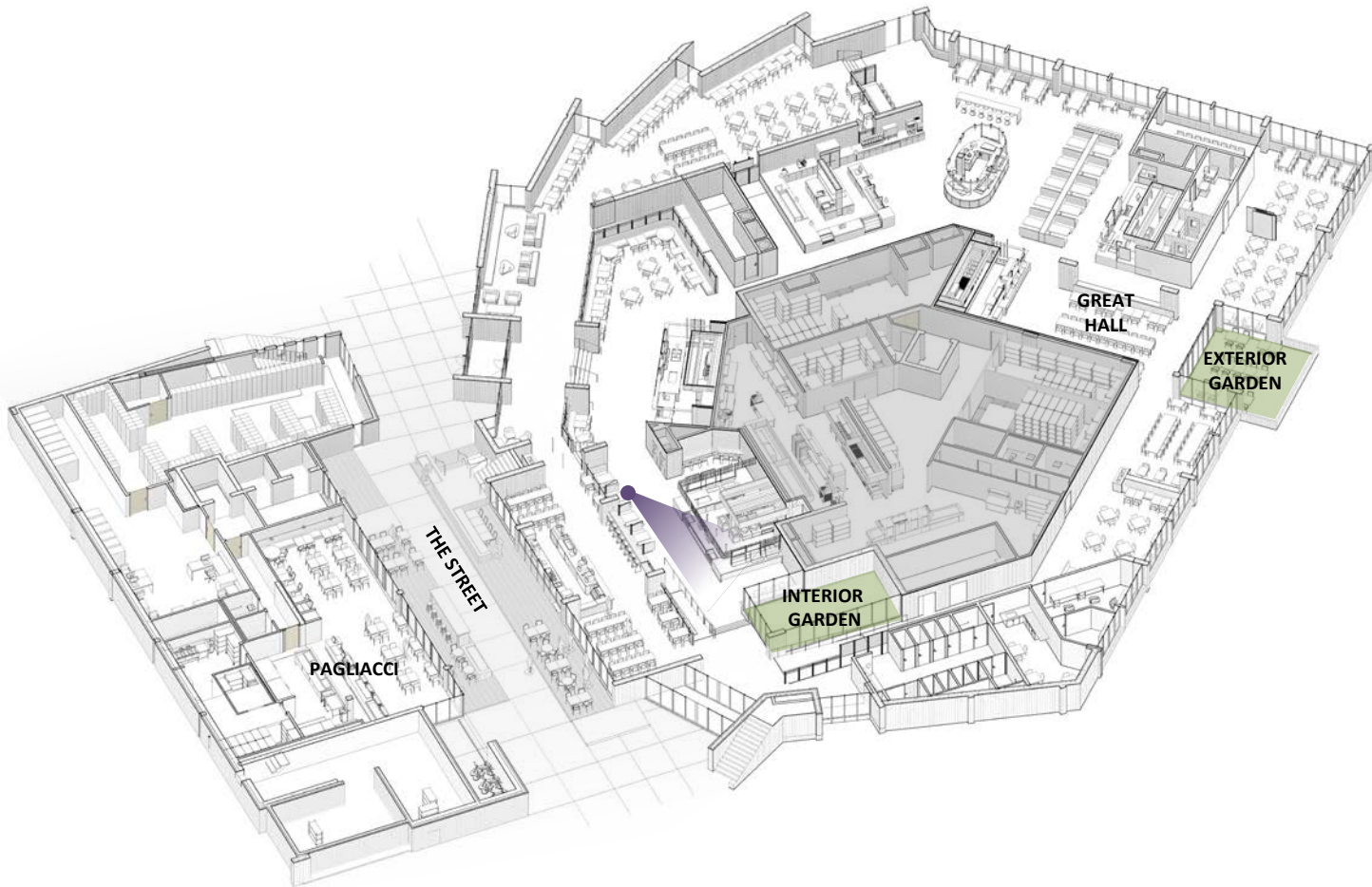
Swarthmore College



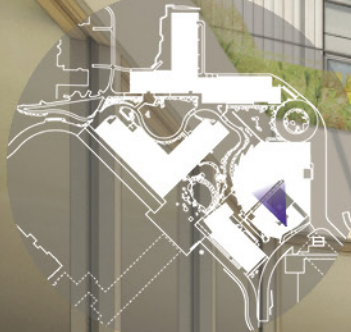
PHASE IVA WALKTHROUGH PERSPECTIVE THROUGH BUILDING D STREETScape

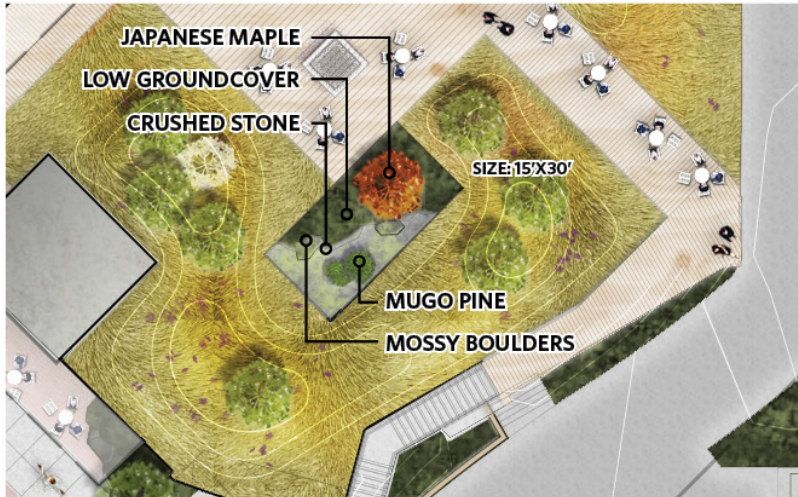
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Japanese Maple



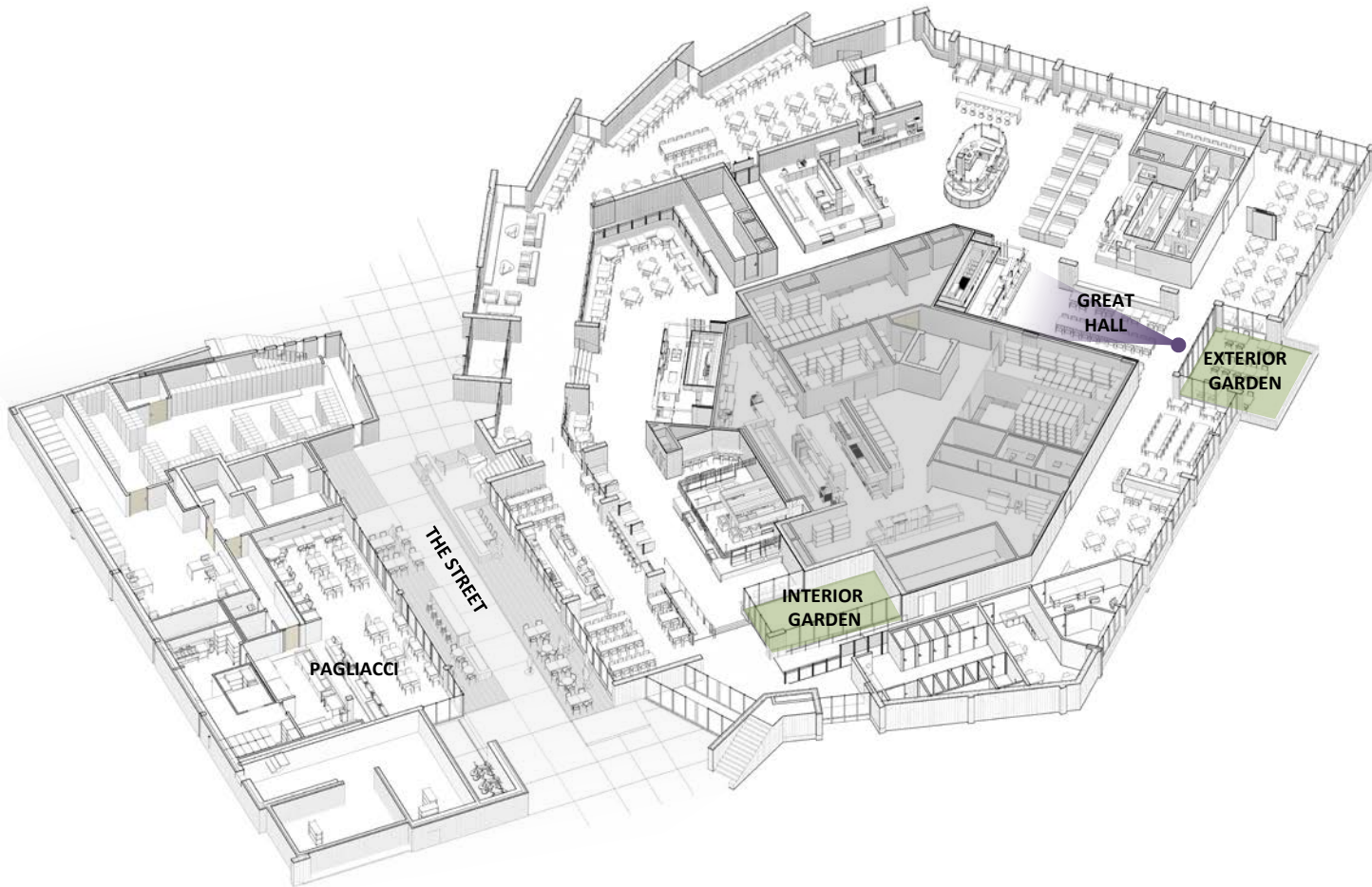
Board Form Concrete



Japanese Mugo Pine



Moss and Fern Mix





PHASE IVA WALKTHROUGH PERSPECTIVE THROUGH DINING HALL

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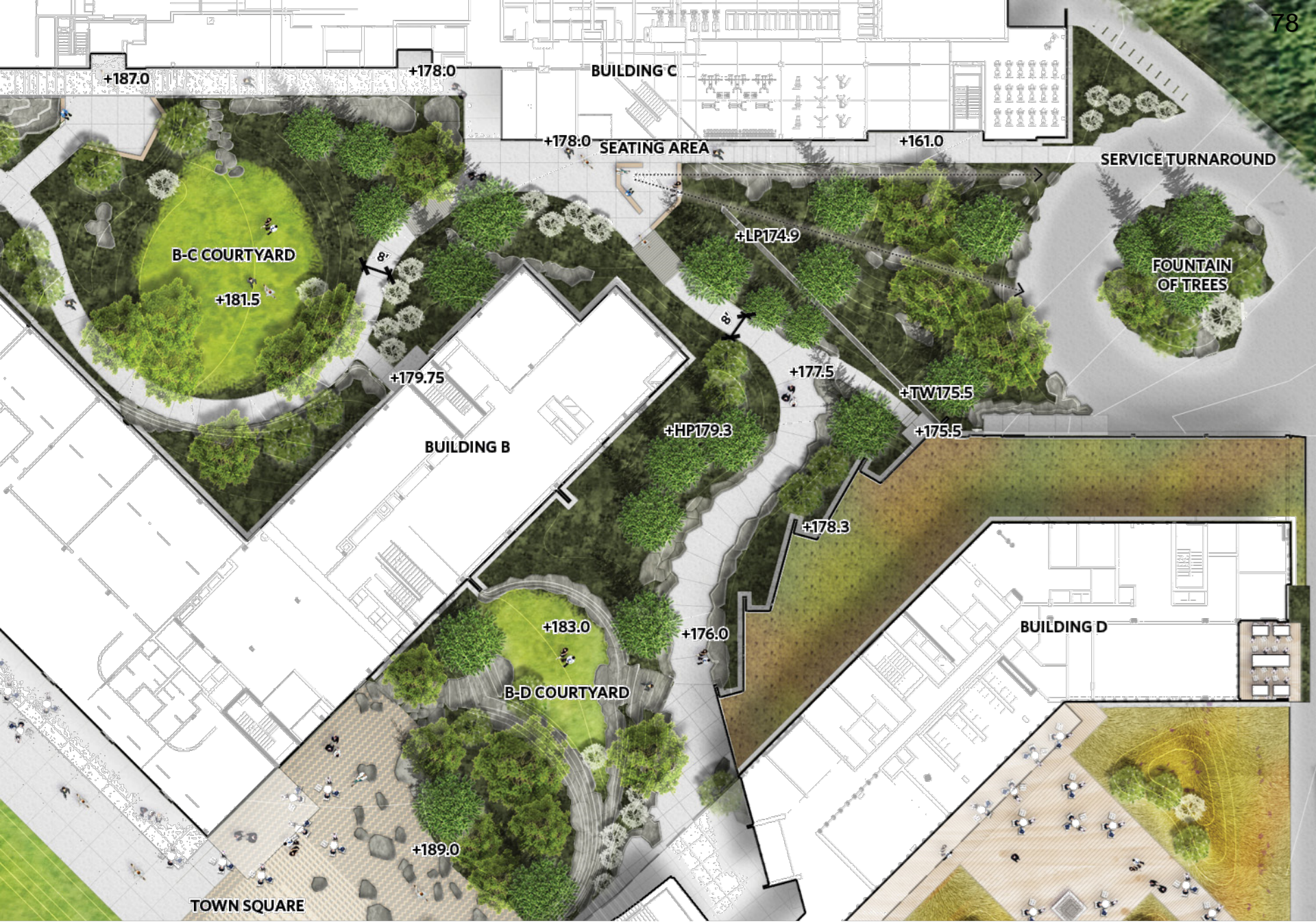


FSC Wood Deck Tiles



Evergreen Huckleberry





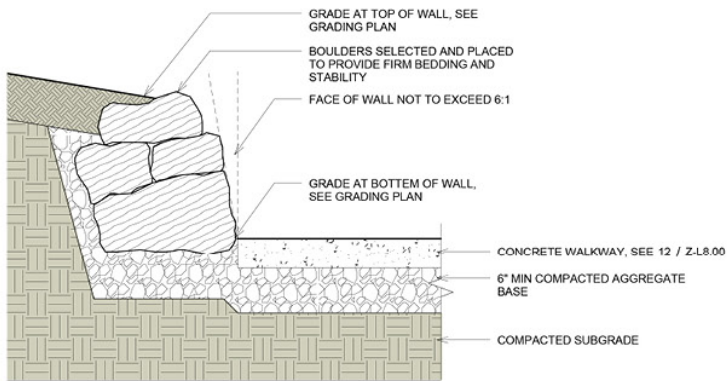
PHASE IVA WALKTHROUGH PLAN OF B-C COURTYARD



PHASE IVA WALKTHROUGH PERSPECTIVE FROM B-D COURTYARD TO TOWN SQUARE

UNIVERSITY OF WASHINGTON NORTH CAMPUS HOUSING

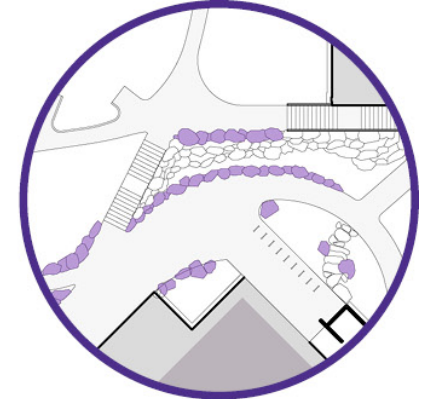
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BOULDER WALL DETAIL



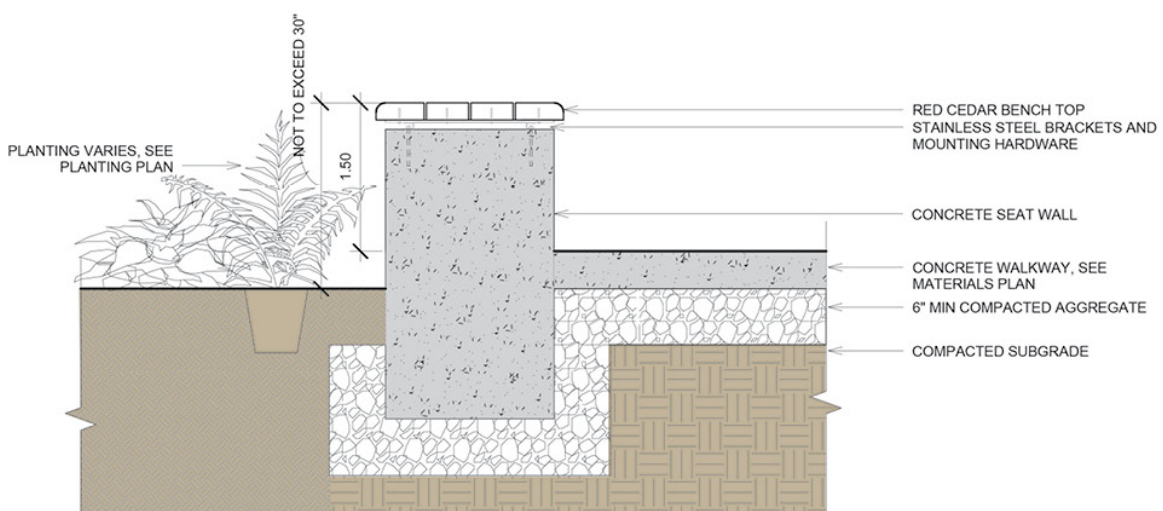
INTEGRATED BOULDER SEATWALLS



DENNY FIELD STAIR



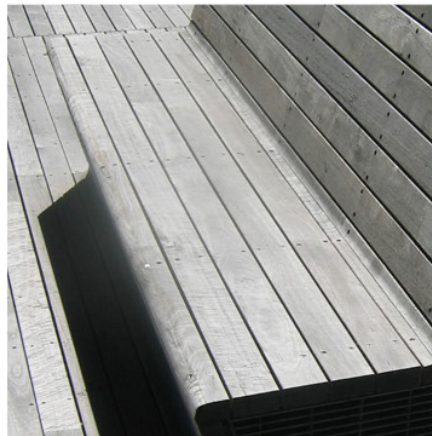
MID-SLOPE PATH



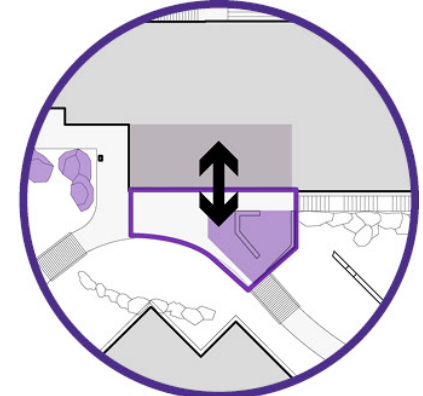
WOOD TOPPED CONCRETE SITEWALL



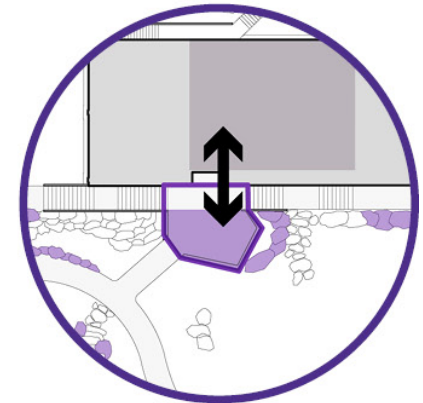
BOARD FORM CONCRETE



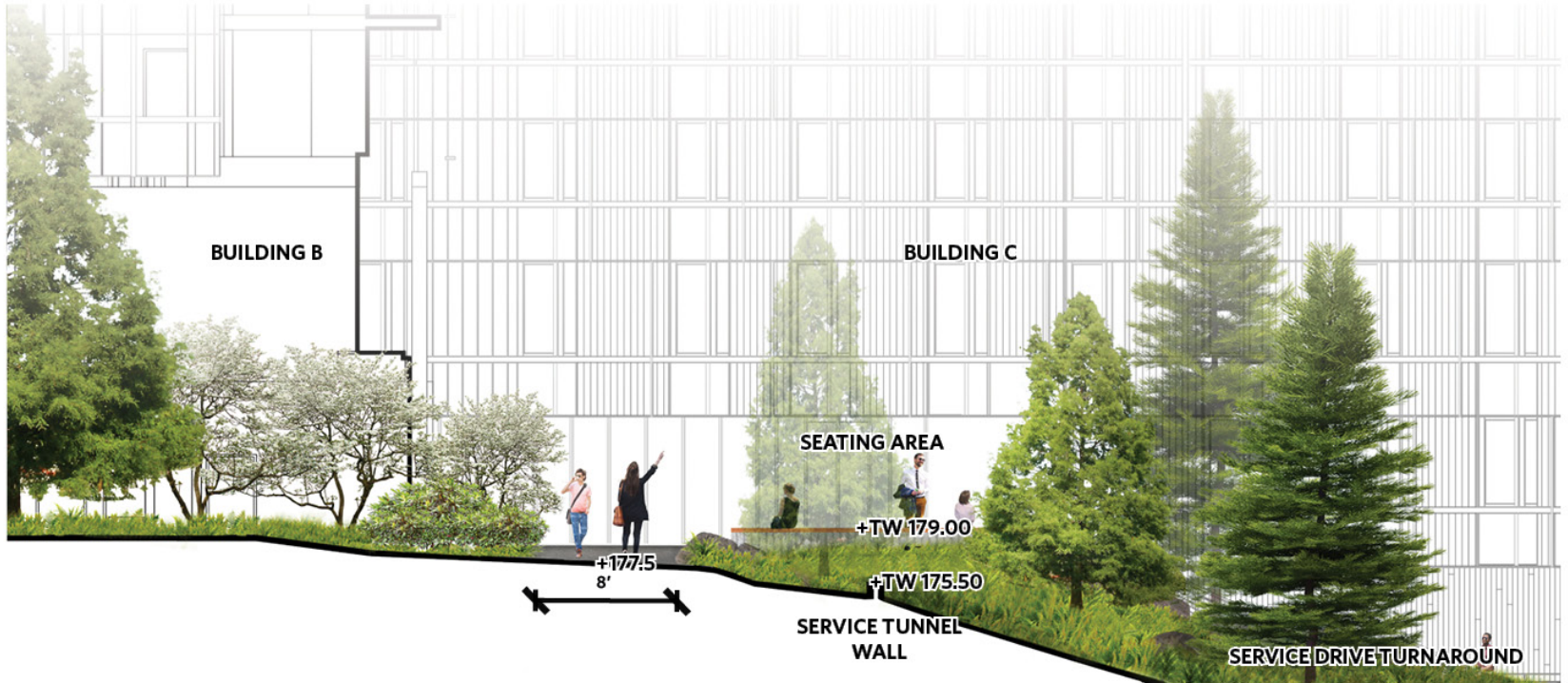
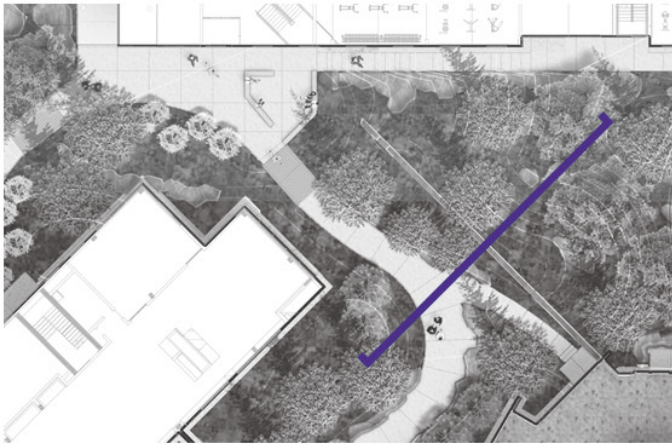
IPE BENCH TOP



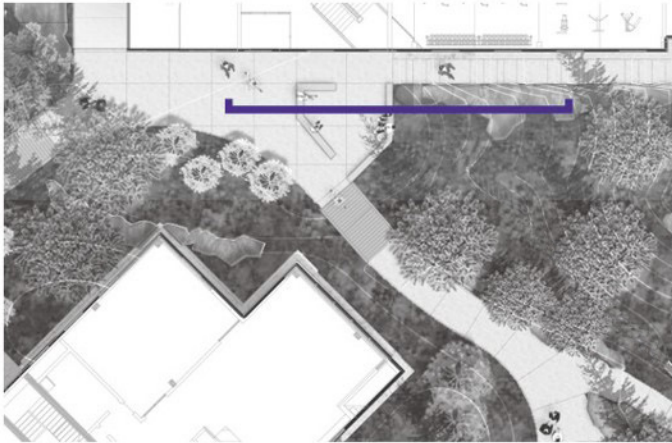
ENTRY PLAZA



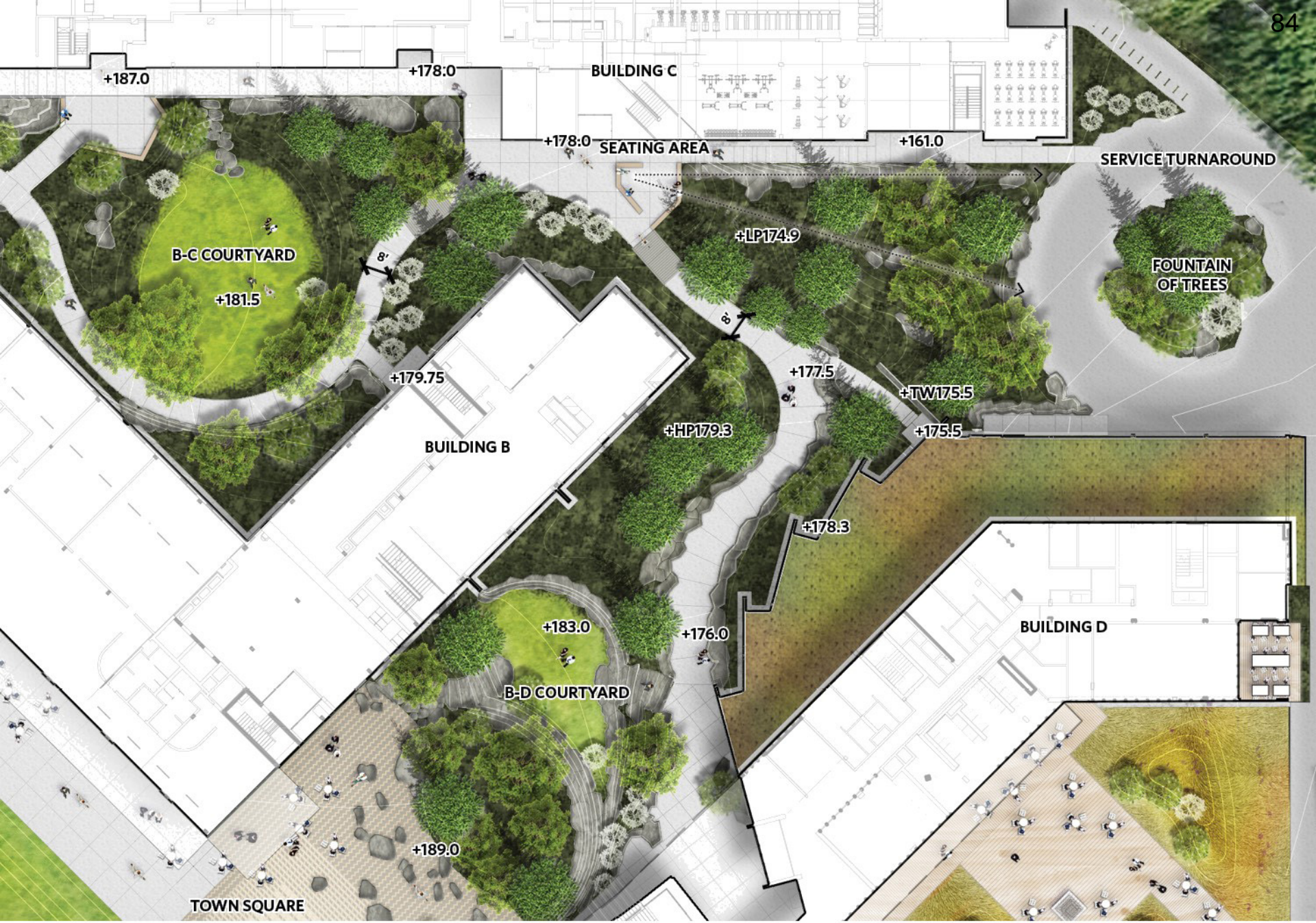
ENTRY PLAZA



PHASE IVA WALKTHROUGH SECTION THROUGH B-C COURTYARD



PHASE IVA WALKTHROUGH SECTION THROUGH B-C COURTYARD



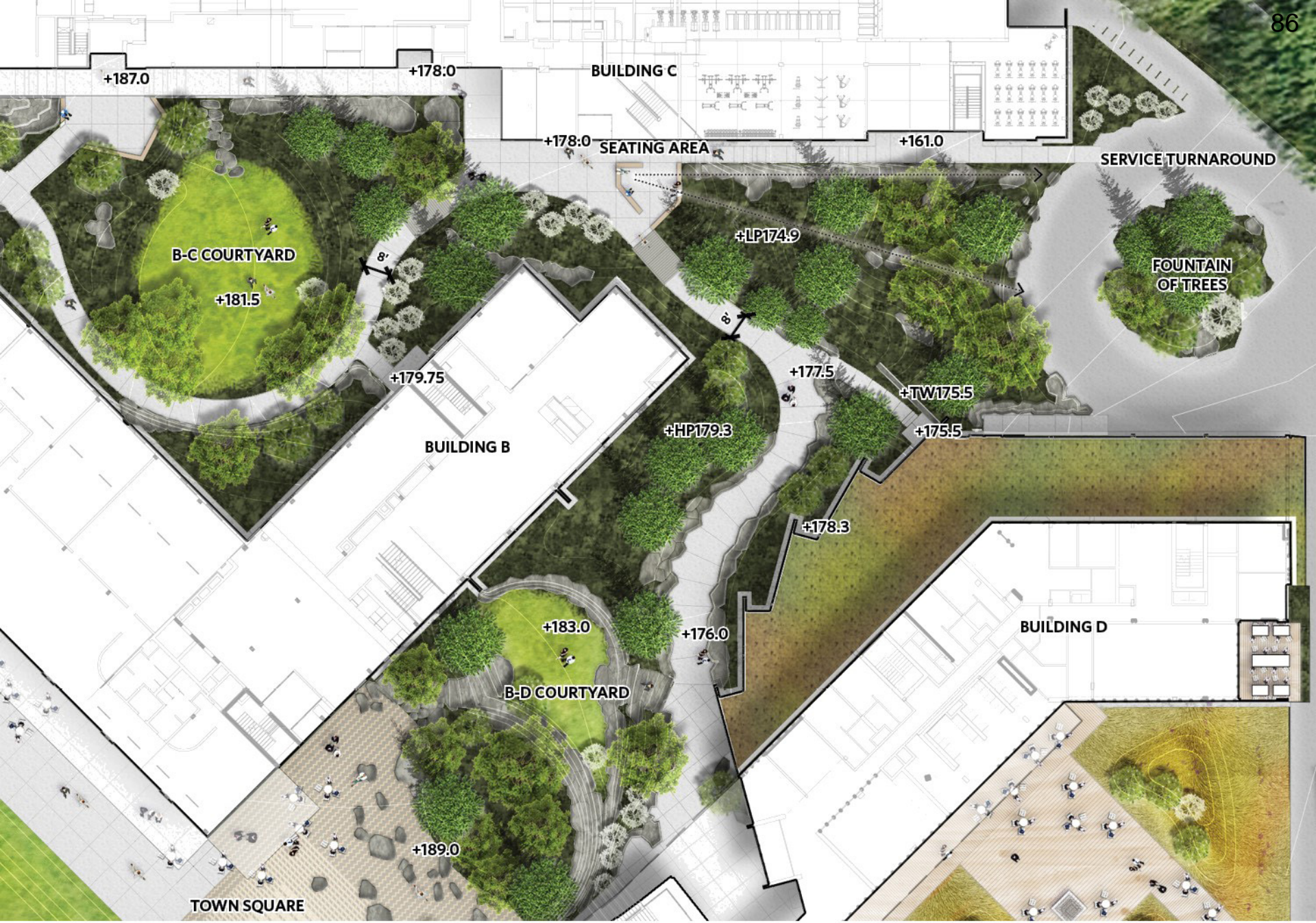
PHASE IVA WALKTHROUGH PLAN OF B-C COURTYARD



PHASE IVA WALKTHROUGH PERSPECTIVE FROM SERVICE DRIVE TO B-C COURTYARD

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PHASE IVA WALKTHROUGH PLAN OF B-C COURTYARD



PHASE IVA WALKTHROUGH PERSPECTIVE OF B-C COURTYARD

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BIKE PARKING
WHITMAN WAY

B-C COURTYARD

+199

+189

BUILDING B

+189

PORCH

ICE CREAM PARLOR

DENNY FIELD

CONNECTION TO KLINKITAT



PHASE IVA WALKTHROUGH PERSPECTIVE FROM HANSEE TO DENNY FIELD

UNIVERSITY OF WASHINGTON NORTH CAMPUS HOUSING

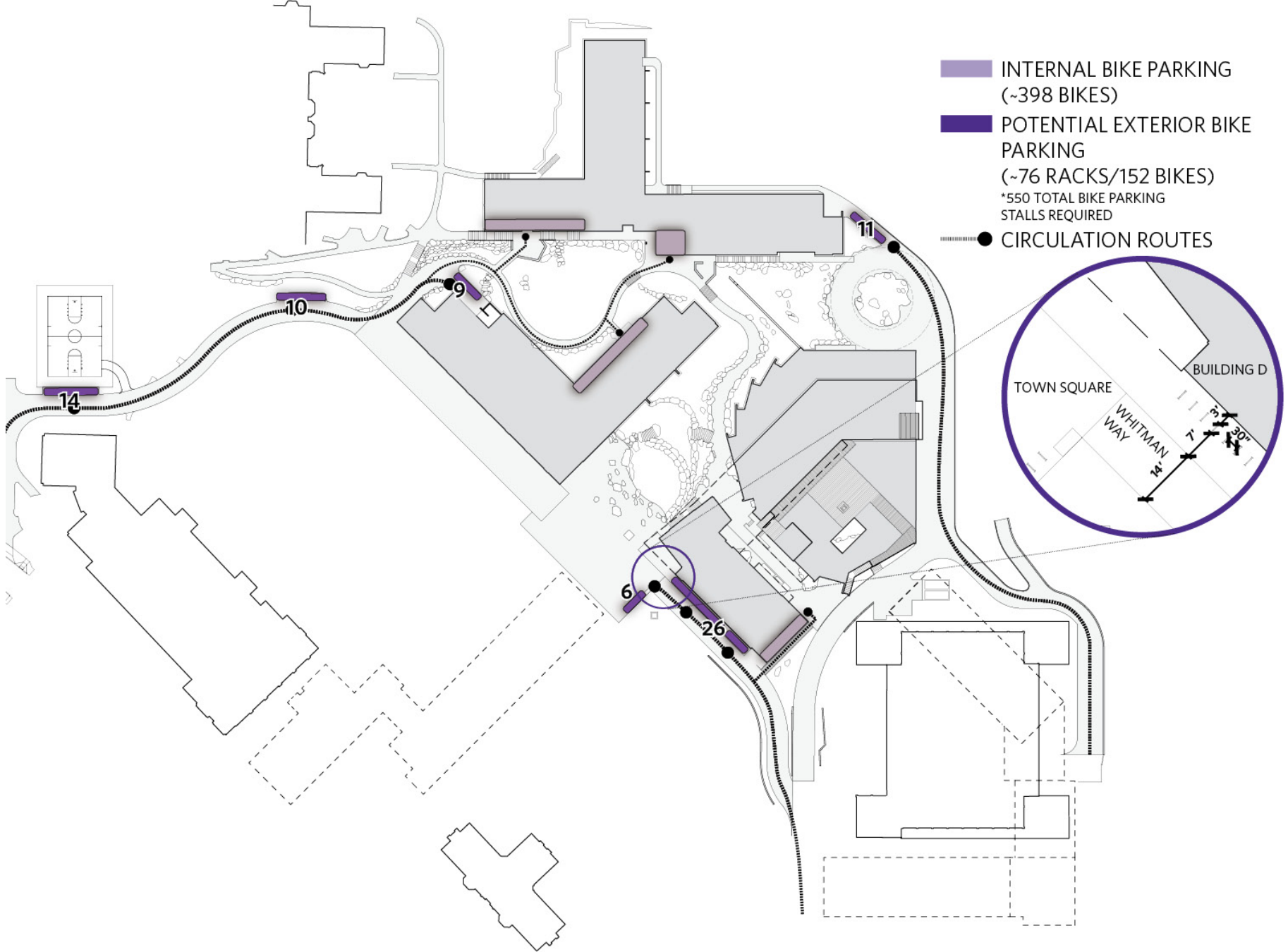
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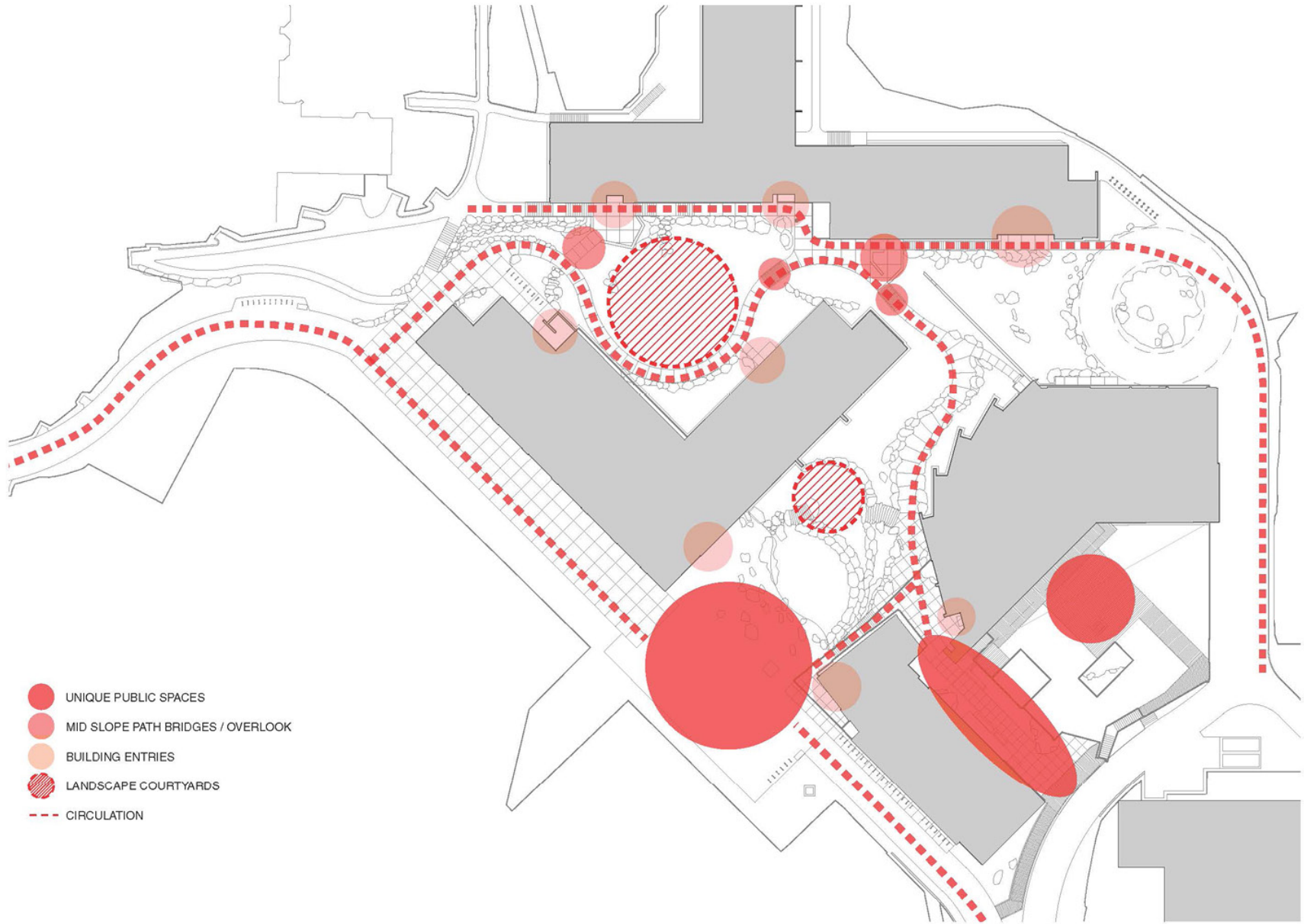
PHASE IVA WALKTHROUGH OVERALL SITE PLAN

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PHASE IVA WALKTHROUGH BIKE PARKING & CIRCULATION



- UNIQUE PUBLIC SPACES
- MID SLOPE PATH BRIDGES / OVERLOOK
- BUILDING ENTRIES
- LANDSCAPE COURTYARDS
- CIRCULATION



OLIN **FMS** FISHER MARANTZ STONE

PHASE IVA WALKTHROUGH SITE LIGHTING

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PHASE IVA WALKTHROUGH SITE LIGHTING

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PHASE IVA WALKTHROUGH AERIAL OR NORTH CAMPUS

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