

POPULATION HEALTH FACILITY

UWAC - ULAC

PROJECT GOALS

Foster collaboration and connectivity amongst those working within the facility, with other programs and with researchers at UW, local and global partners, and students

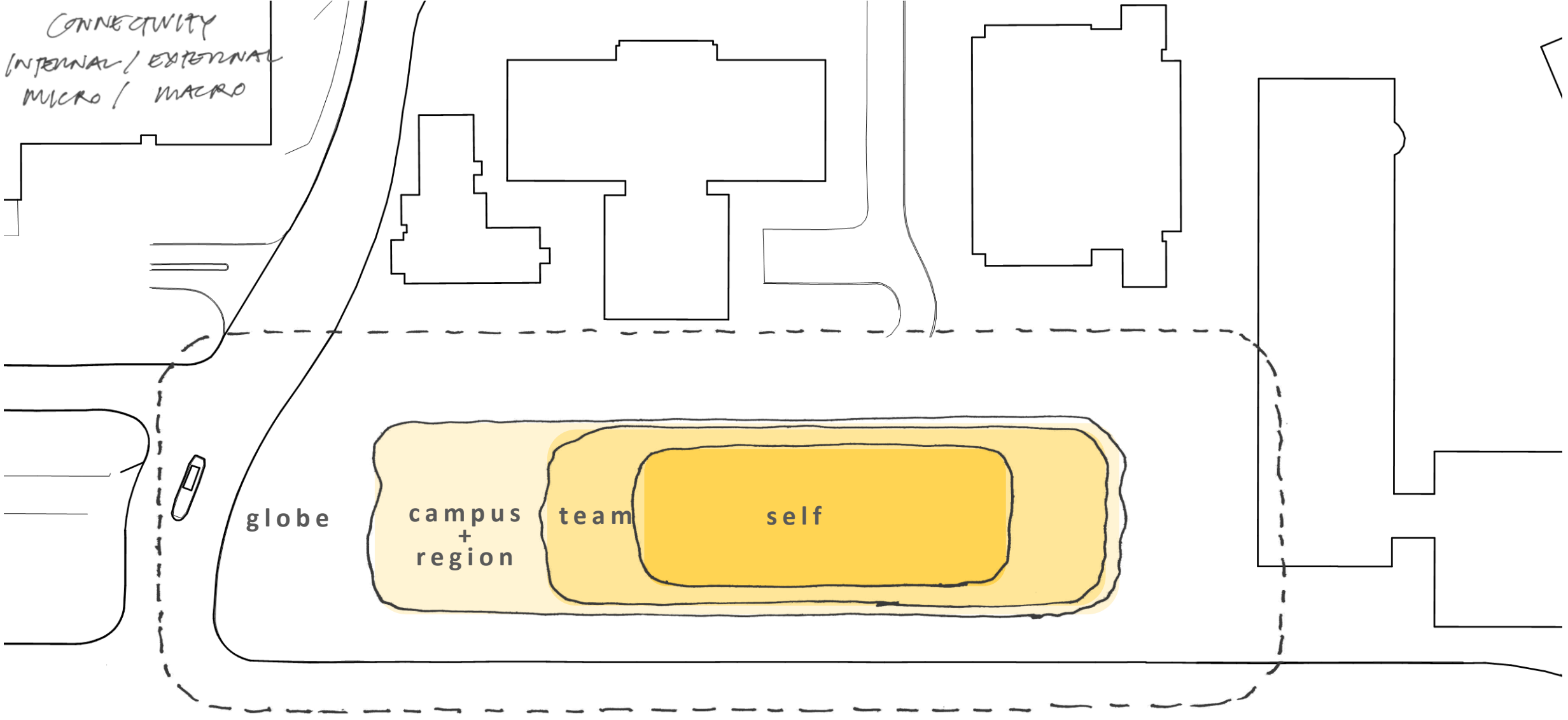
Promote healthy living within and around the new facility

Design space that is flexible and adaptable to meet the evolving needs of IHME, DGH and SPH

Employ best practices in sustainable building to reduce energy and water use, lower life cycle costs, and improve occupant satisfaction and health

Support and **further the institution-wide population health vision.**

CONNECTIVITY
INTERNAL / EXTERNAL
MICRO / MACRO



CONNECTION TO THE PLANET



communications



reduced water use



reduced carbon emissions



responsible materials

CONNECTION TO THE CAMPUS + REGION



energy



iconic views



accessibility



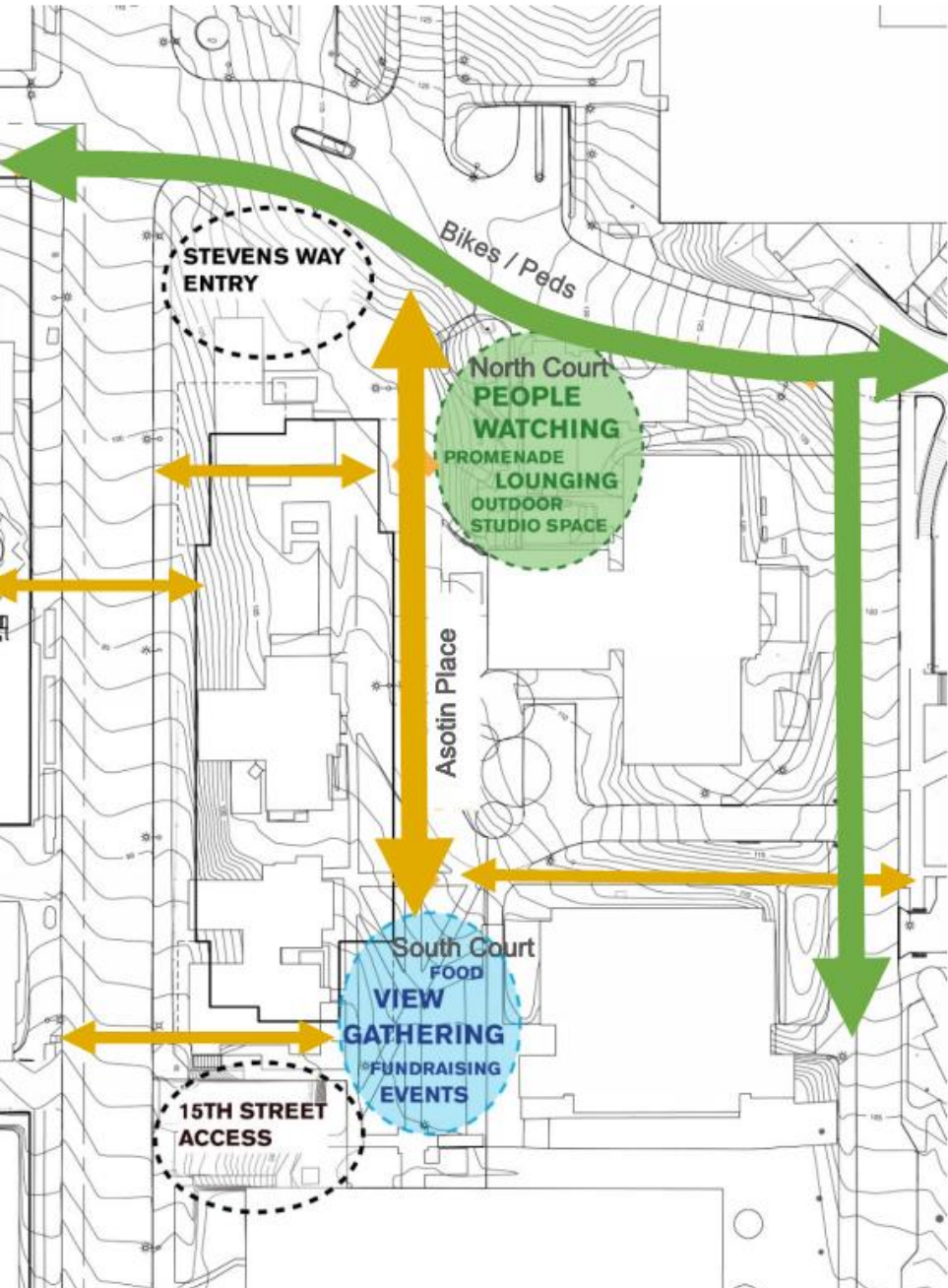
stormwater

Public Realm & Connectivity Diagram

Figure 127. Graphics are for illustrative Purposes Only



Site Program



June Session Site Comments

Consider both E/W
Pedestrian
Populations – Arch
Hall to Gould &
General UW

Can more trees be
preserved north of
the building?

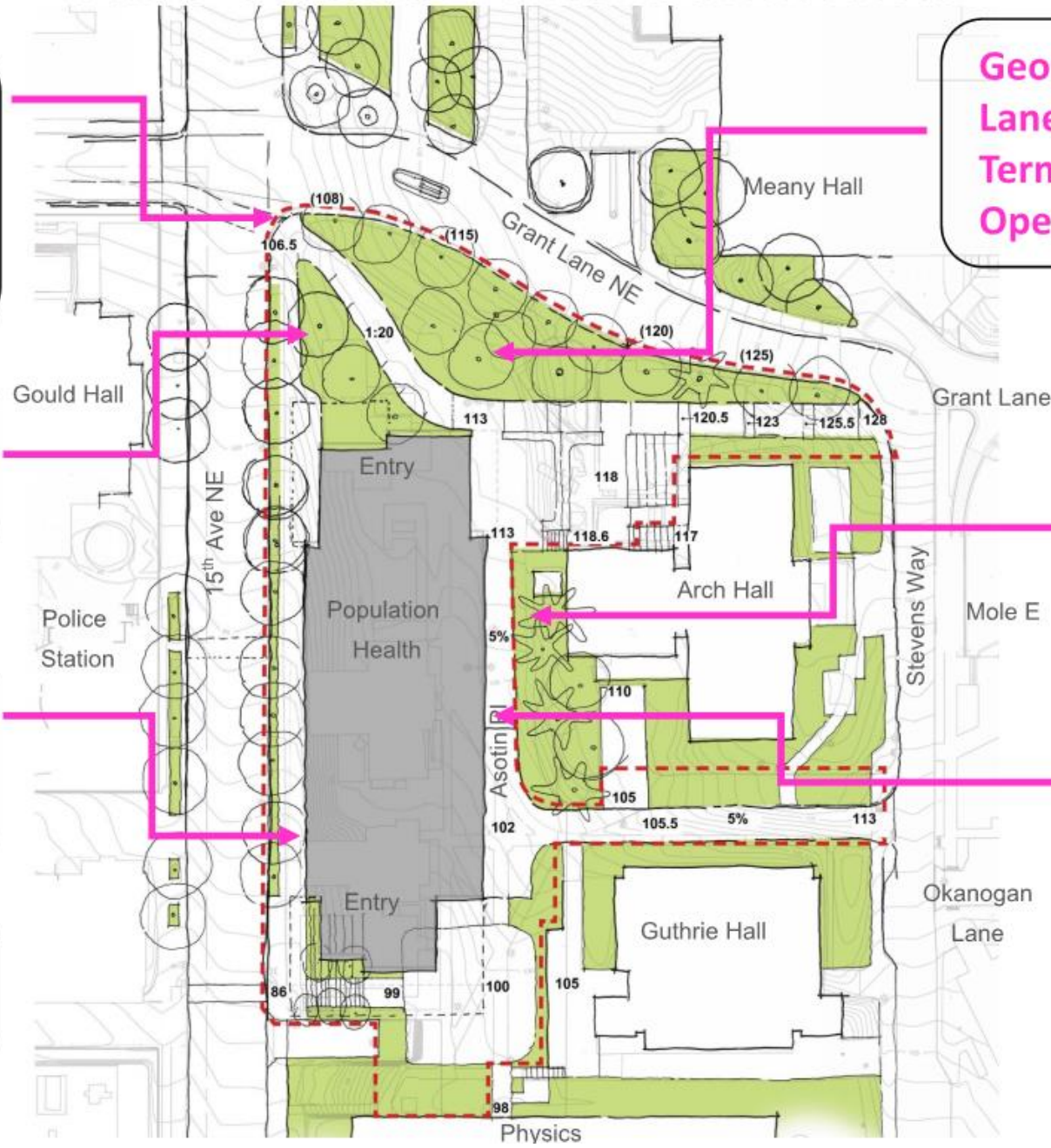
Activate 15th
30' Building Setback
Allee of Trees

Apply sustainability
goals to site.

George Washington
Lane View –
Terminated or
Open?

Short Compression
at Architecture Hall
ok.

For a garden
experience – consider
proportion of green
to hardscape.



POPULATION HEALTH FACILITY
landscape design progress

SITE CONNECTIVITY

CAMPUS CONNECTIVITY

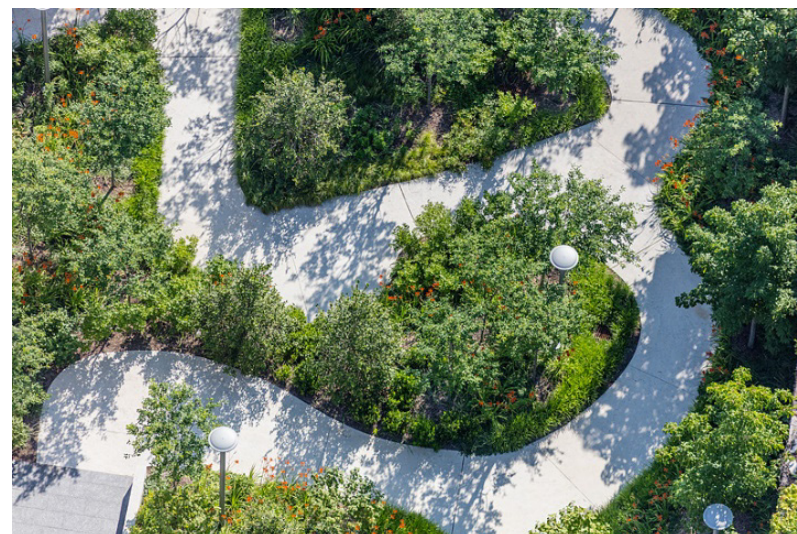
PEDESTRIANS & ADA CIRCULATION
BICYCLE PARKING & CIRCULATION
ADA PARKING & TRANSIT

ENVIRONMENTAL CONNECTIVITY

TREE PRESERVATION
SUSTAINABLE STORMWATER
HORTICULTURE

HUMAN CONNECTIVITY

HEALTH & WELLNESS
SOCIAL INTERACTION & EVENTS



LANDSCAPE MOSAIC : EXISTING



LANDSCAPE MOSAIC : EXISTING CHARACTER

● PASSAGE



● WOODLAND GROVE



● COURTYARD/TERRACES



● URBAN FRONTAGE



LANDSCAPE MOSAIC : PROPOSED



LANDSCAPE MOSAIC : PROPOSED

● PASSAGE

CAMPUS CONNECTOR - GRANT LANE



URBAN PASSAGE - ASOTIN LANE



● URBAN FRONTAGE - 15TH STREET



● TERRACES



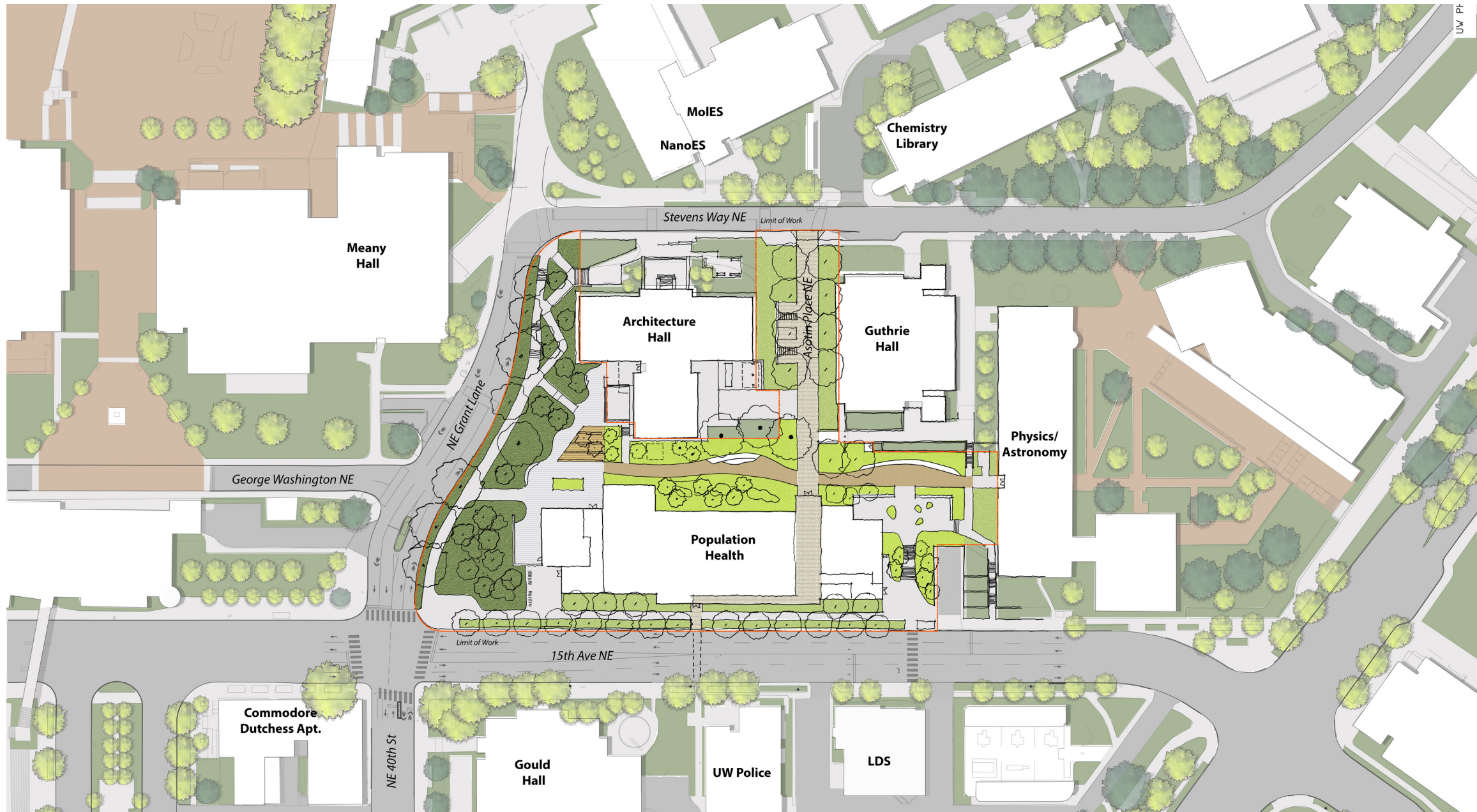
● WOODLAND GROVE - GARDEN WALK



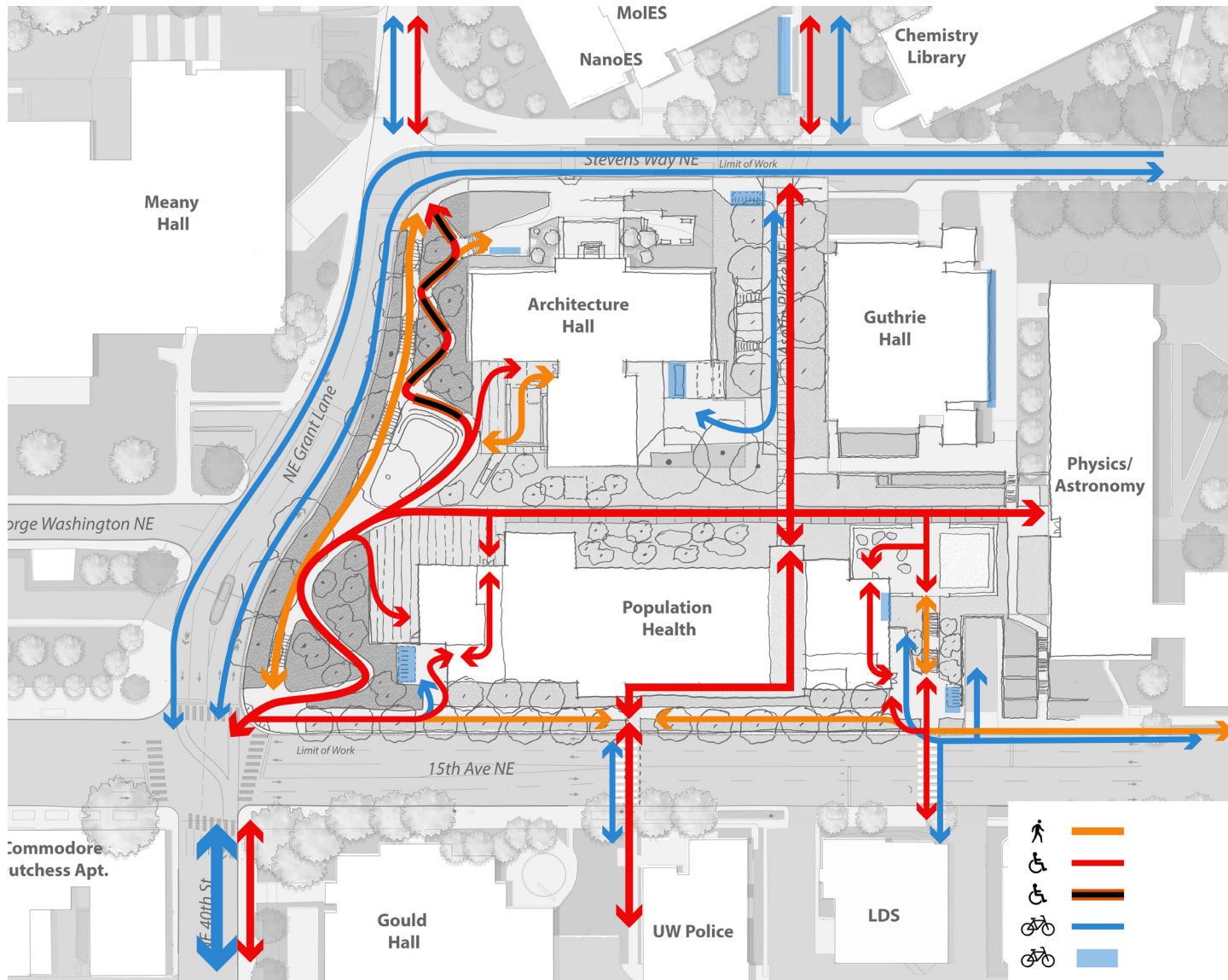
LANDSCAPE SCHEMATIC DESIGN - OPTION 01



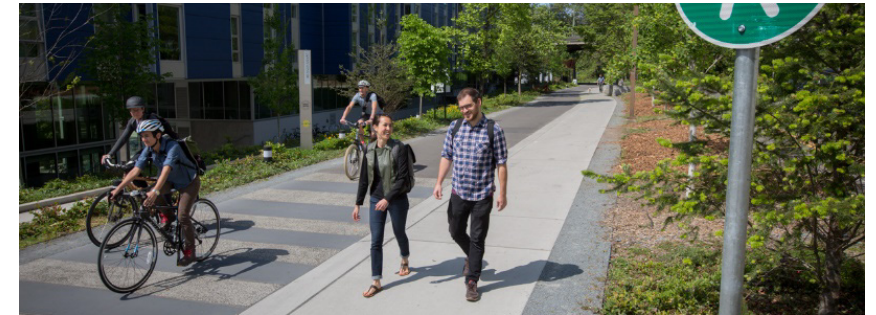
LANDSCAPE SCHEMATIC DESIGN - OPTION 02



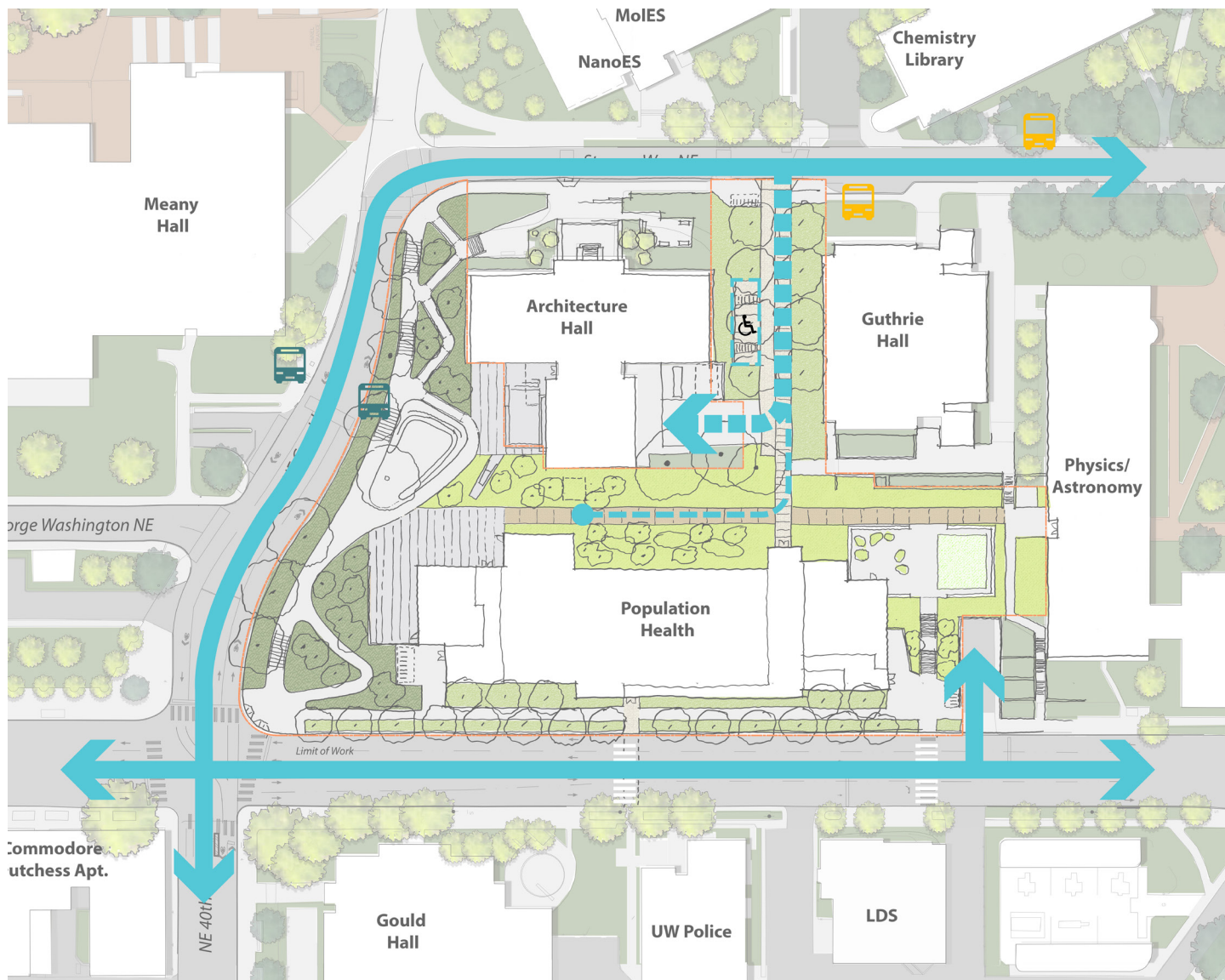
CAMPUS CONNECTIVITY



PEDESTRIAN CIRCULATION



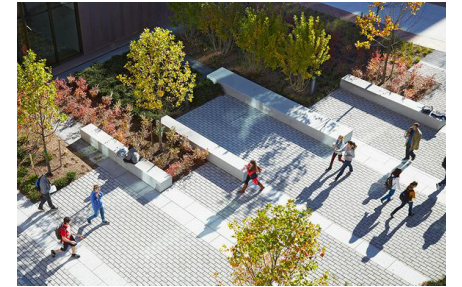
CAMPUS CONNECTIVITY



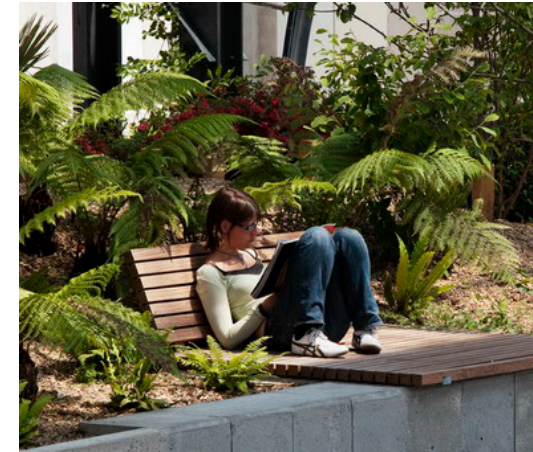
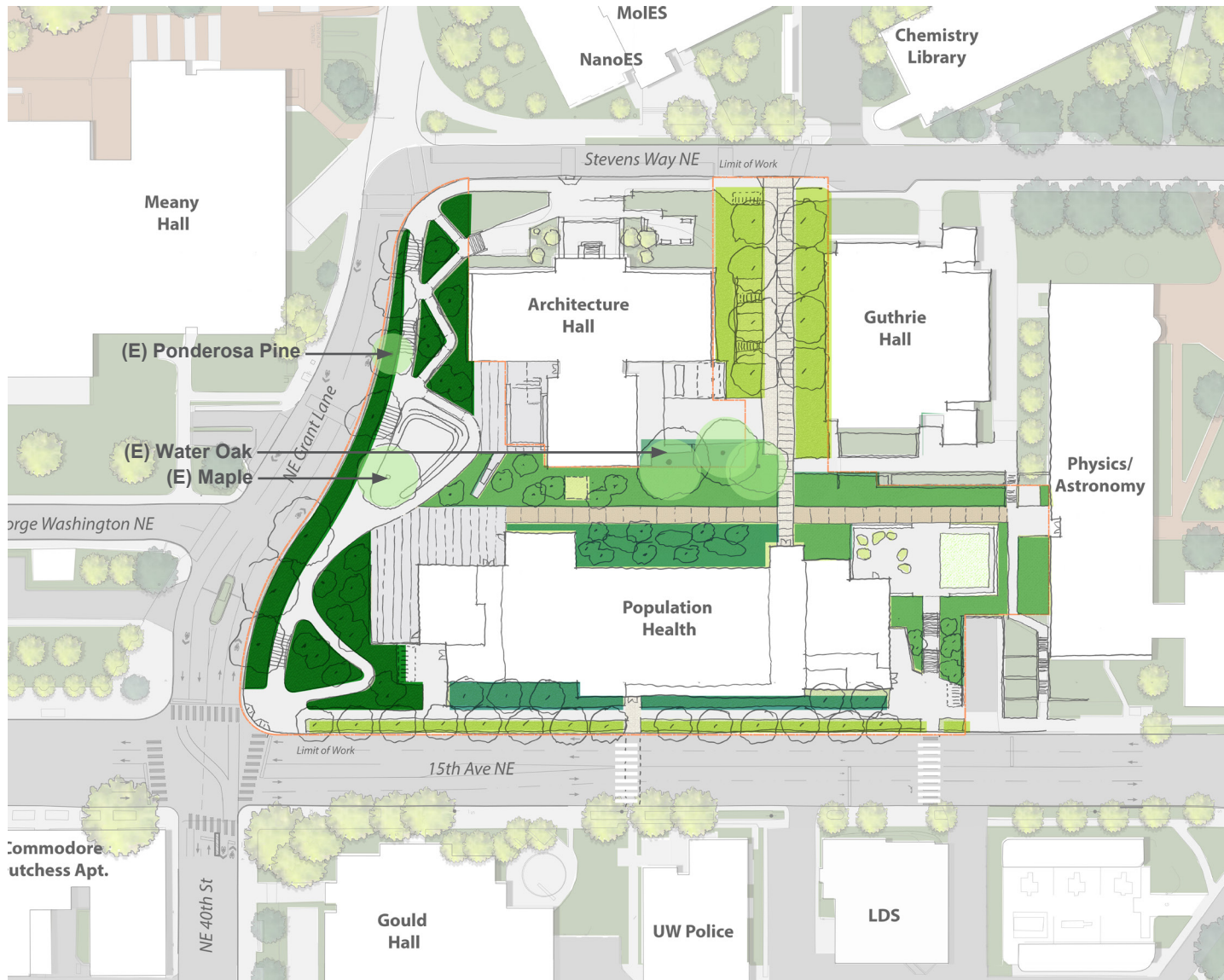
VEHICULAR CIRCULATION



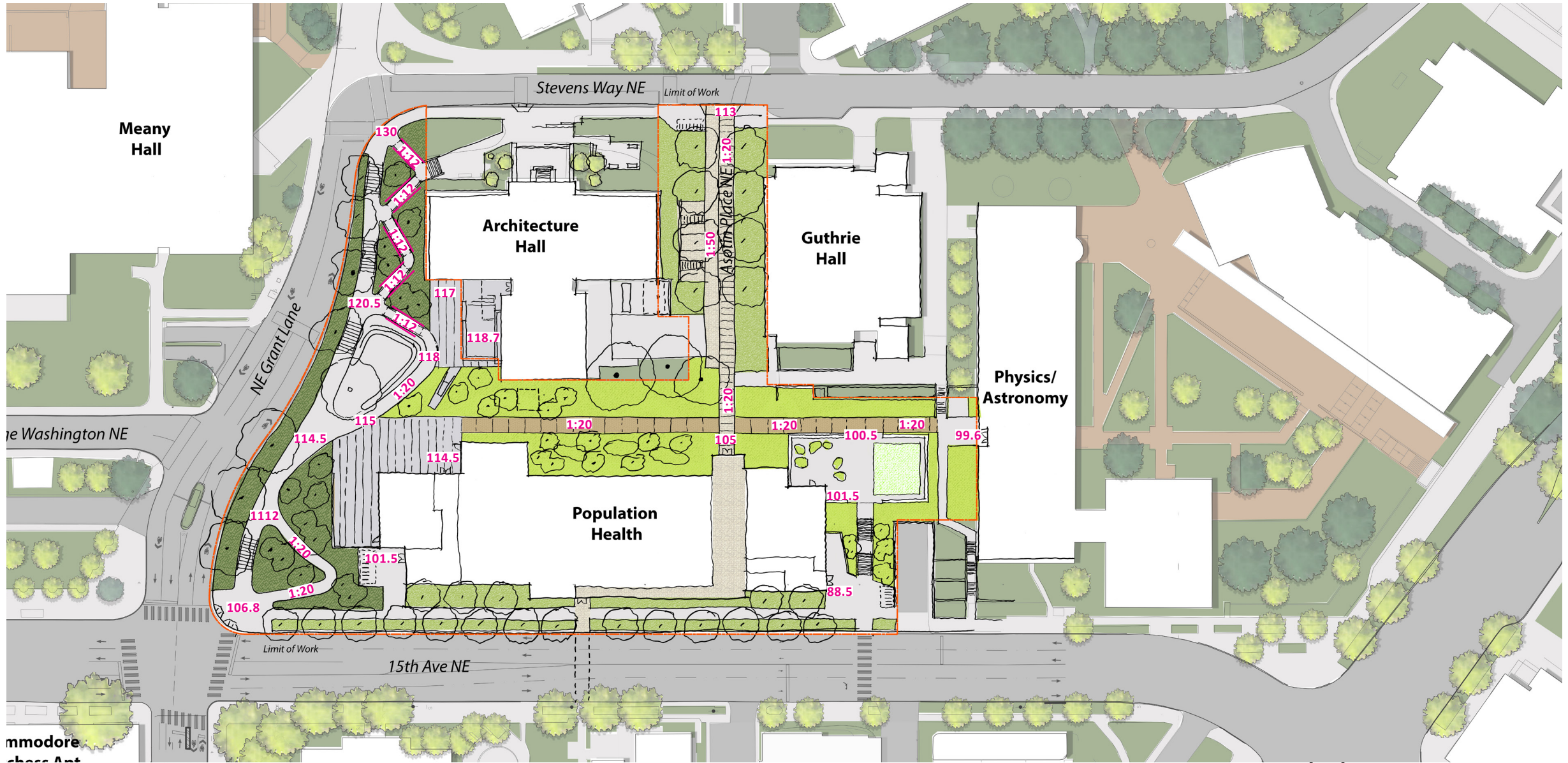
SOCIAL CONNECTIVITY



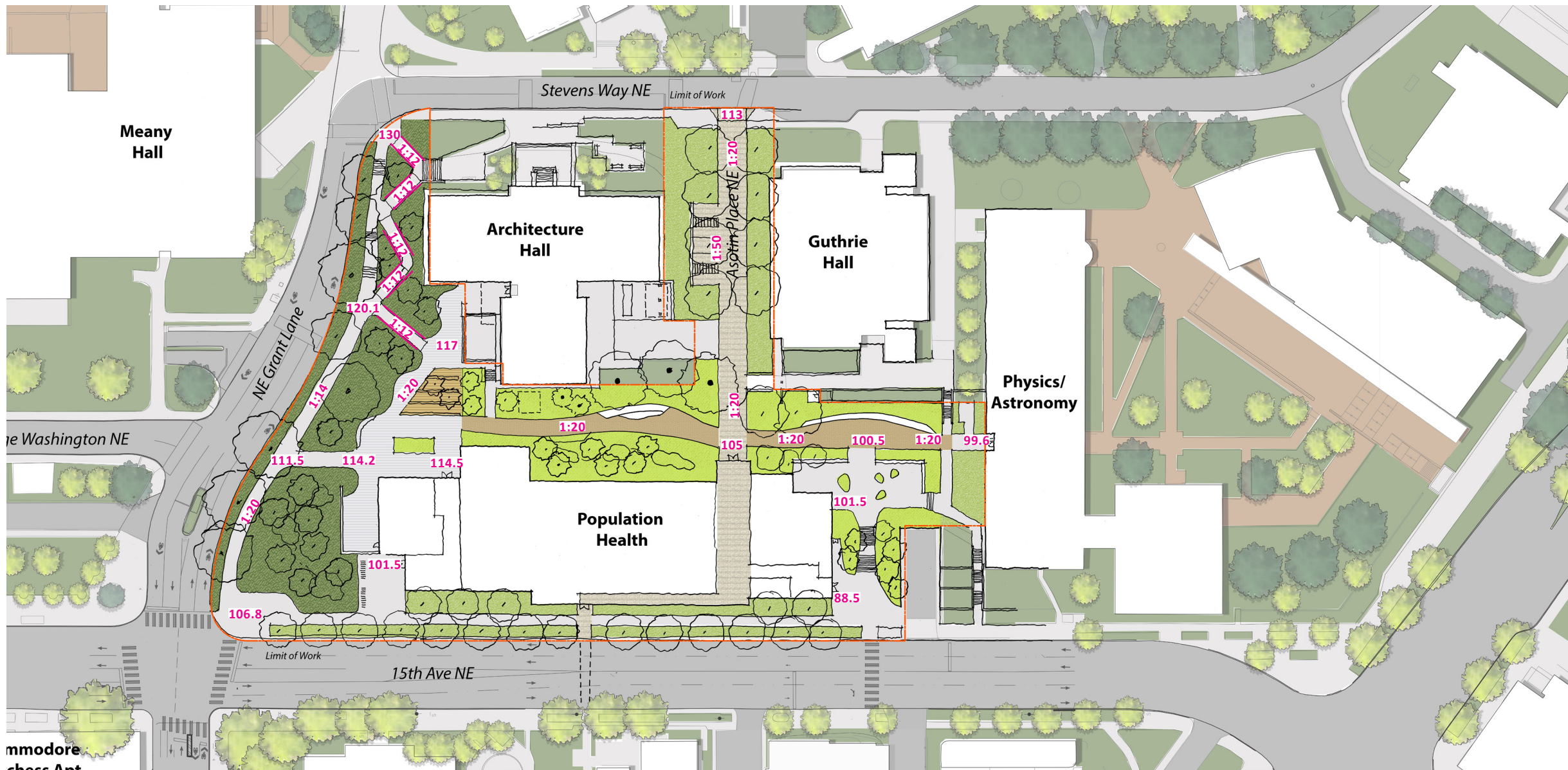
ENVIRONMENTAL CONNECTIVITY



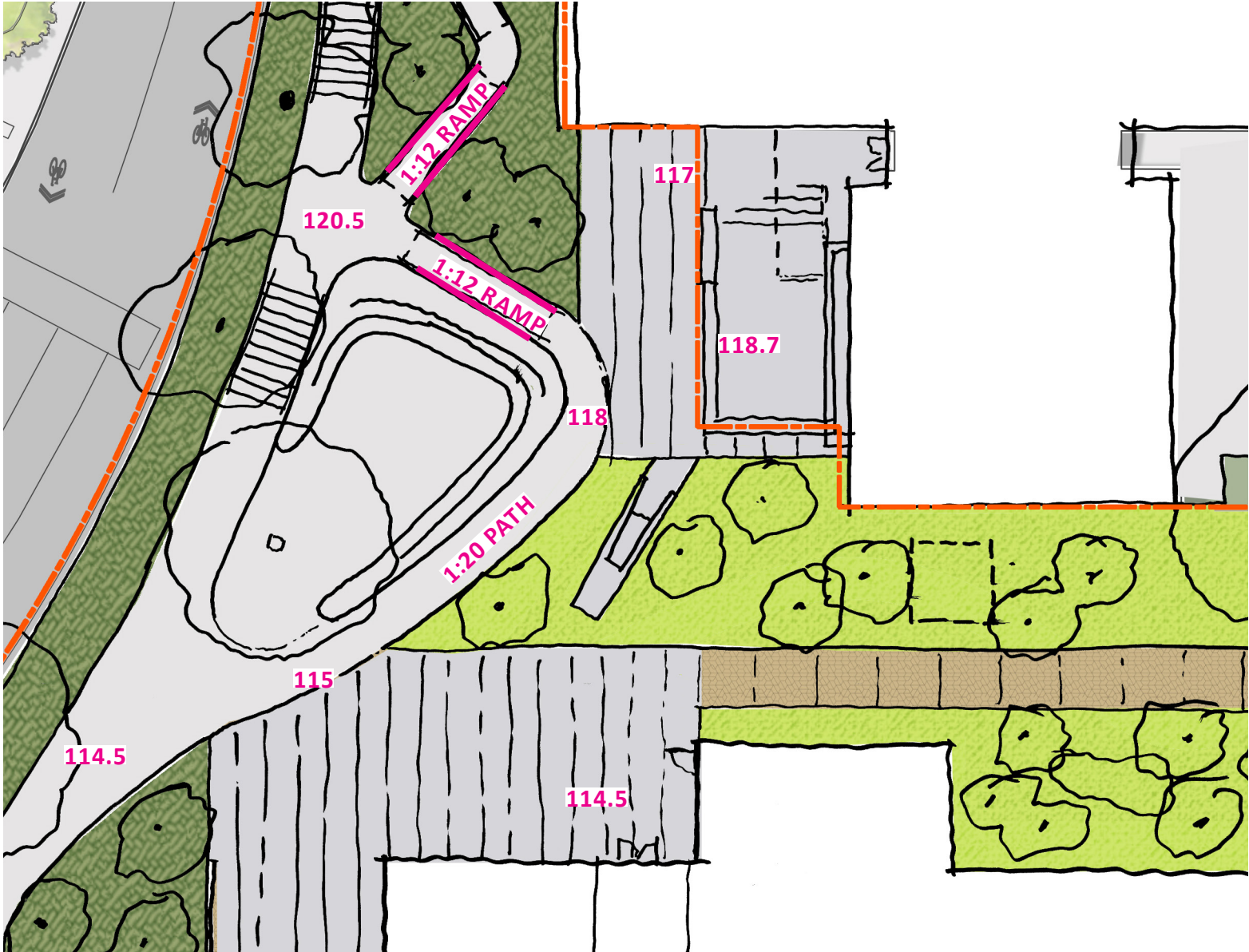
LANDSCAPE SCHEMATIC DESIGN - OPTION 01



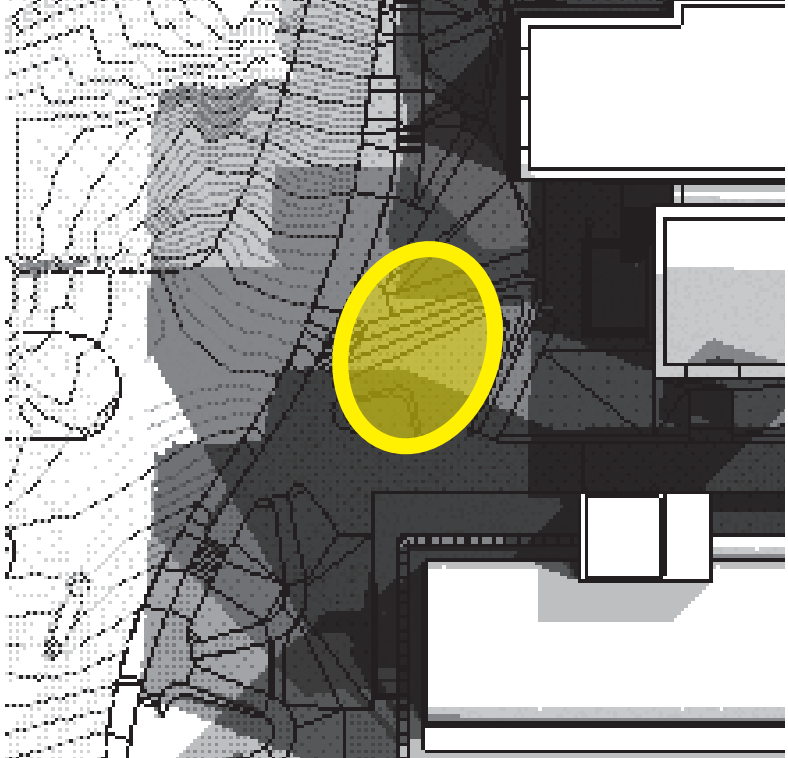
LANDSCAPE SCHEMATIC DESIGN - OPTION 02



SOCIAL PROSPECT- OPTION 1 - Curved Amphitheater

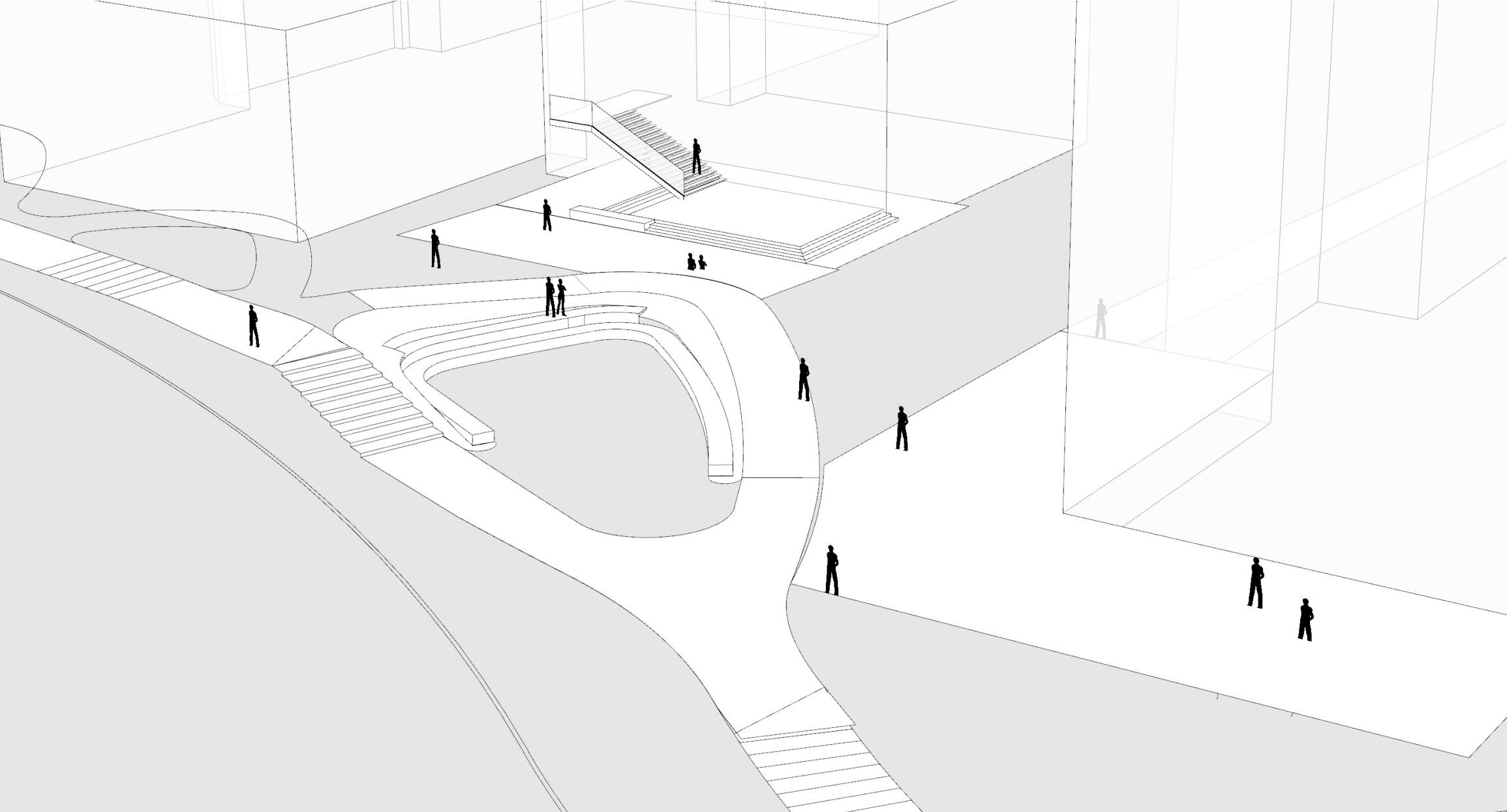


SOLAR STUDY



Midday Sun (10AM- 2PM)

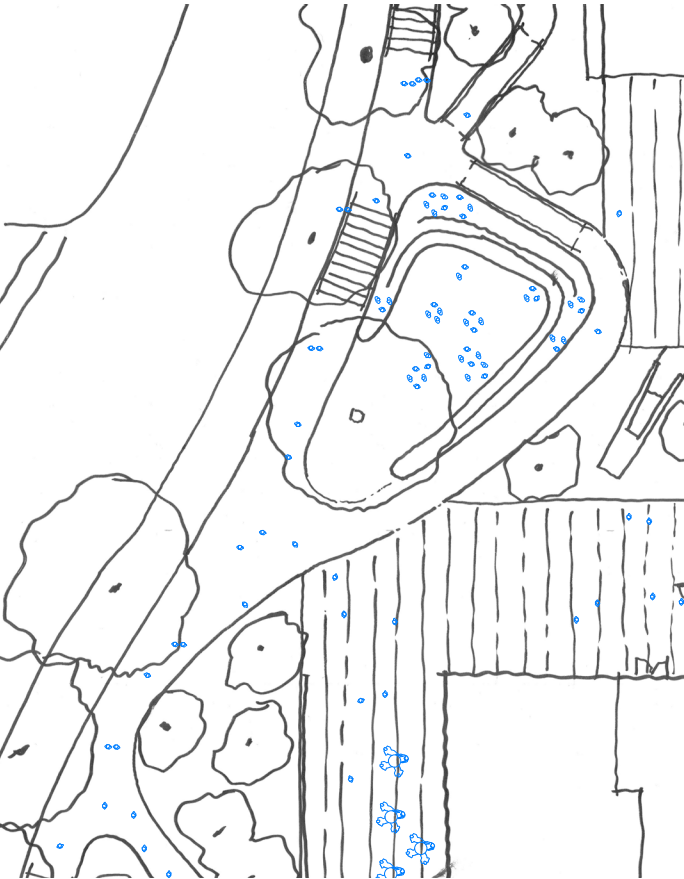
SOCIAL PROSPECT- OPTION 1 - Curved Amphitheater



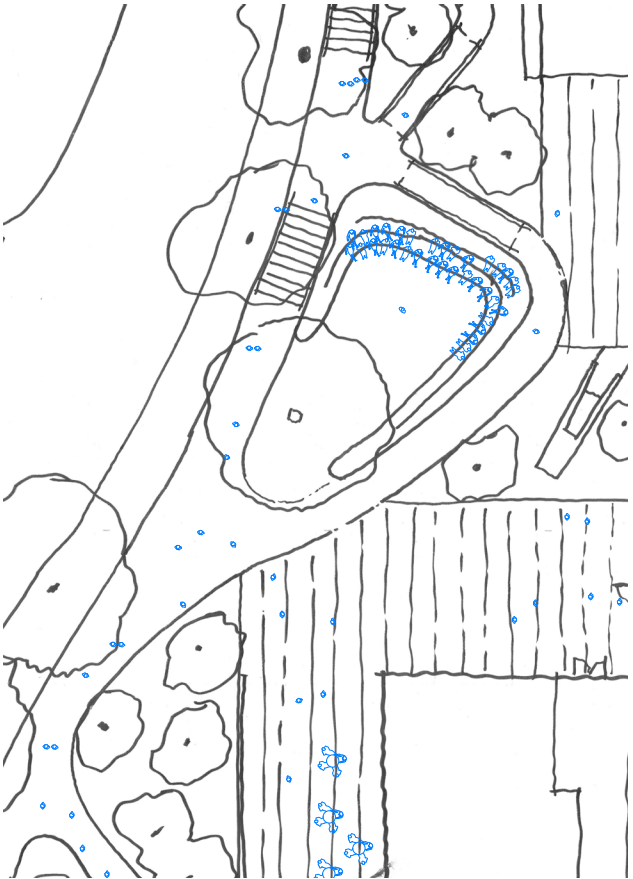
SOCIAL PROSPECT- OPTION 1 - Curved Amphitheater



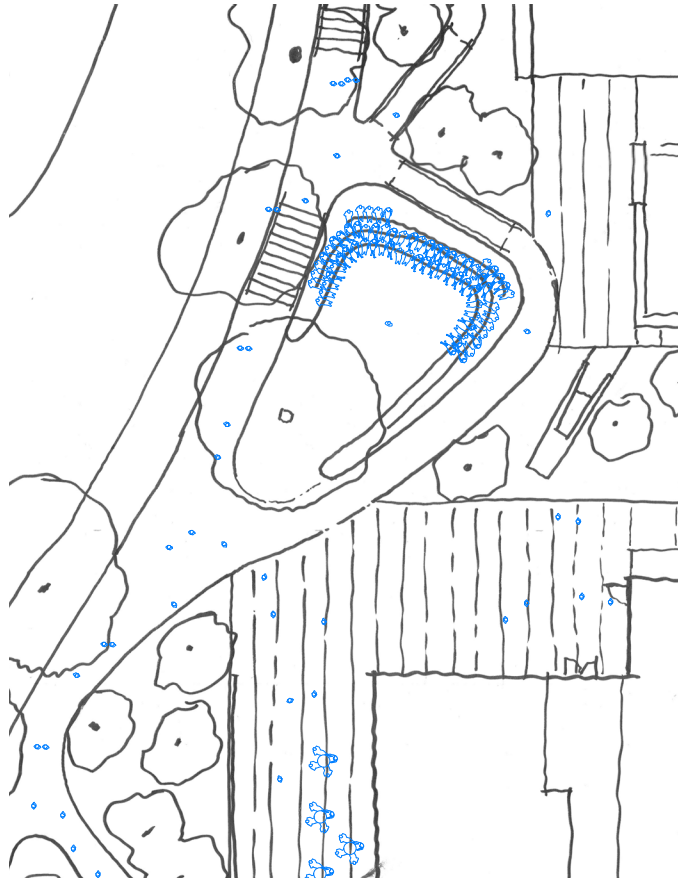
SOCIAL PROSPECT- OPTION 1 - Curved Amphitheater



Small Groups - 45 people

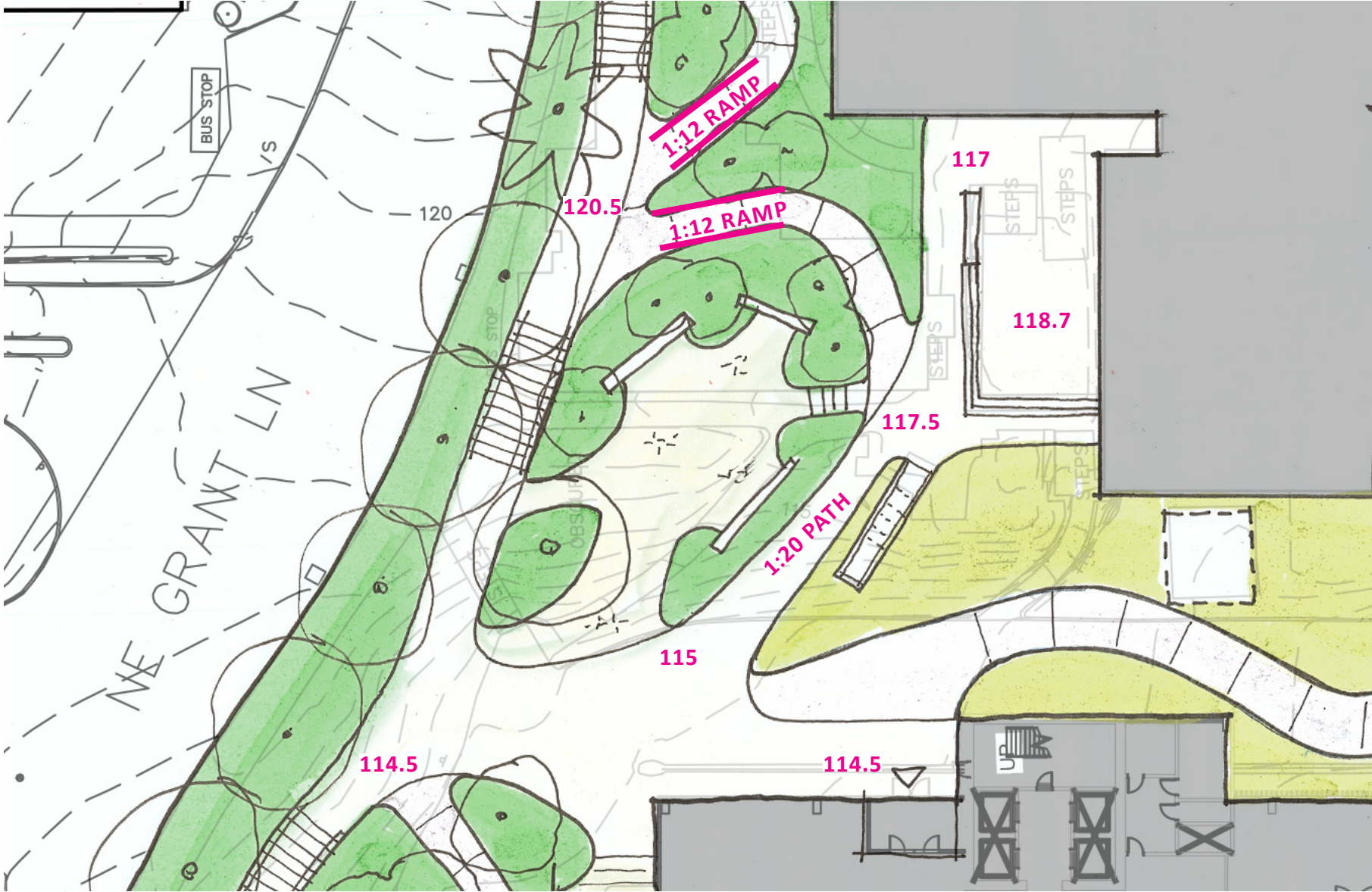


Small Classes - 35 people

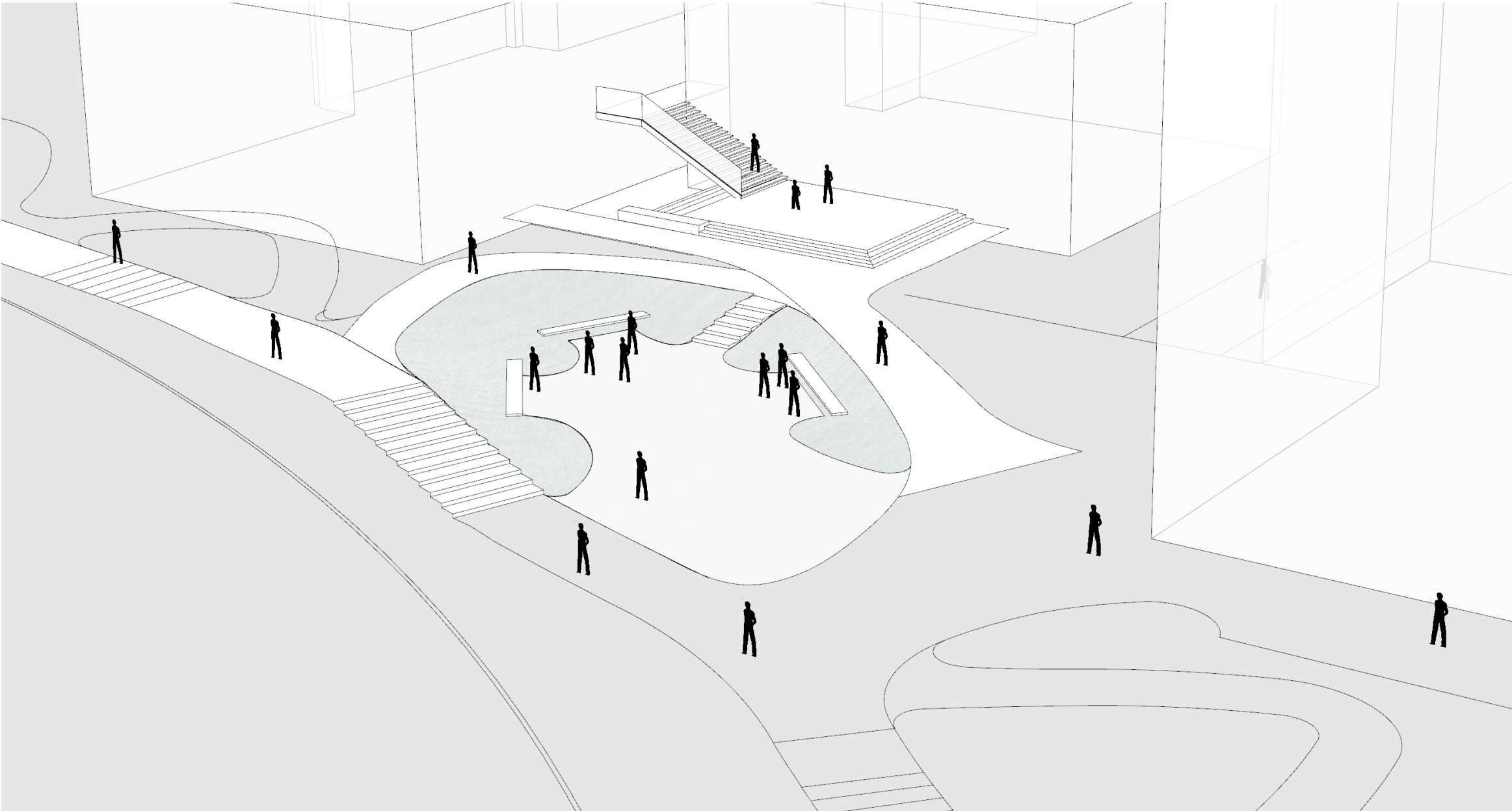


Large Classes - 75 people

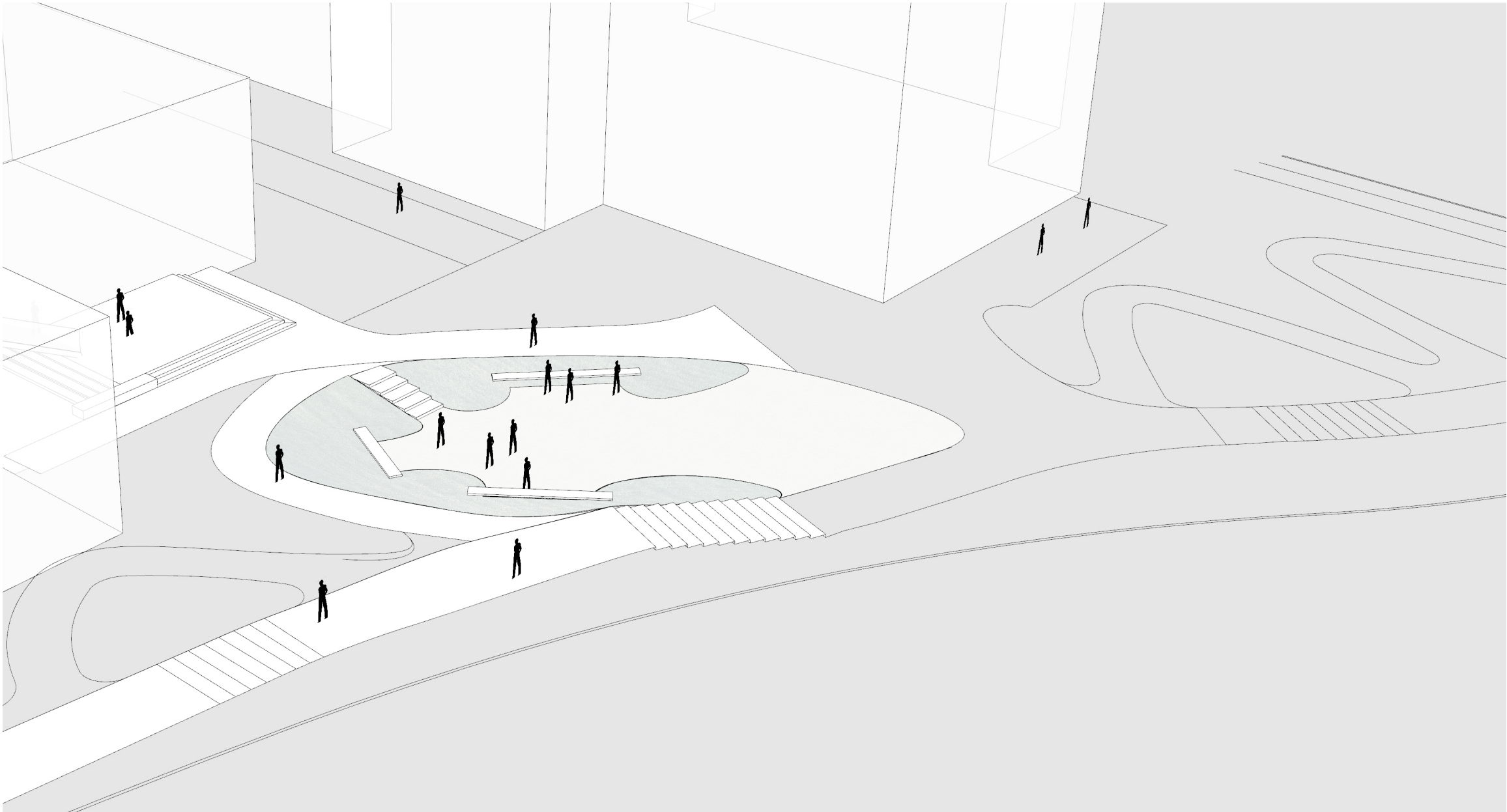
SOCIAL PROSPECT - OPTION 2- Garden Room



SOCIAL PROSPECT - OPTION 2- Garden Room



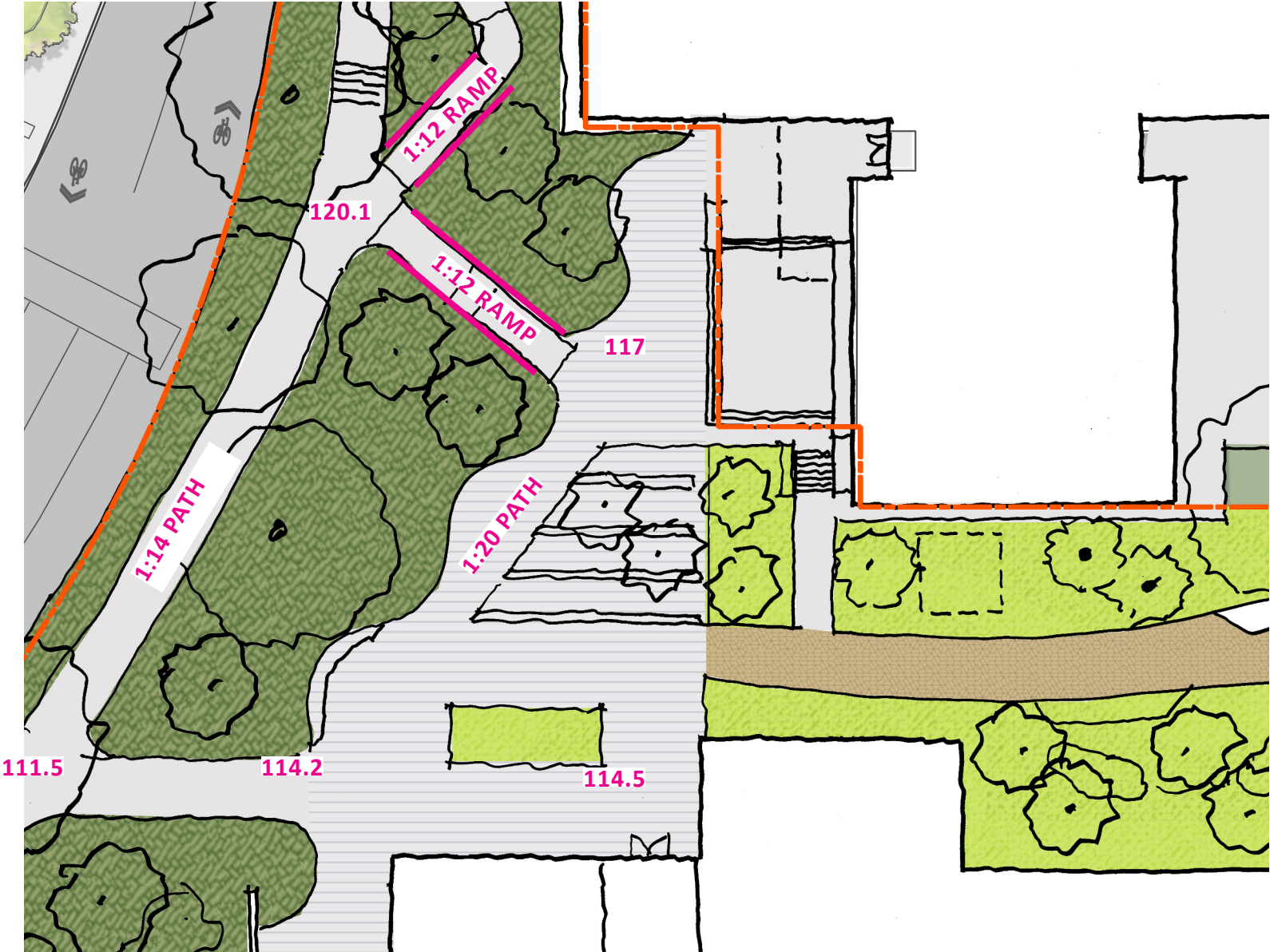
SOCIAL PROSPECT - OPTION 2- Garden Room



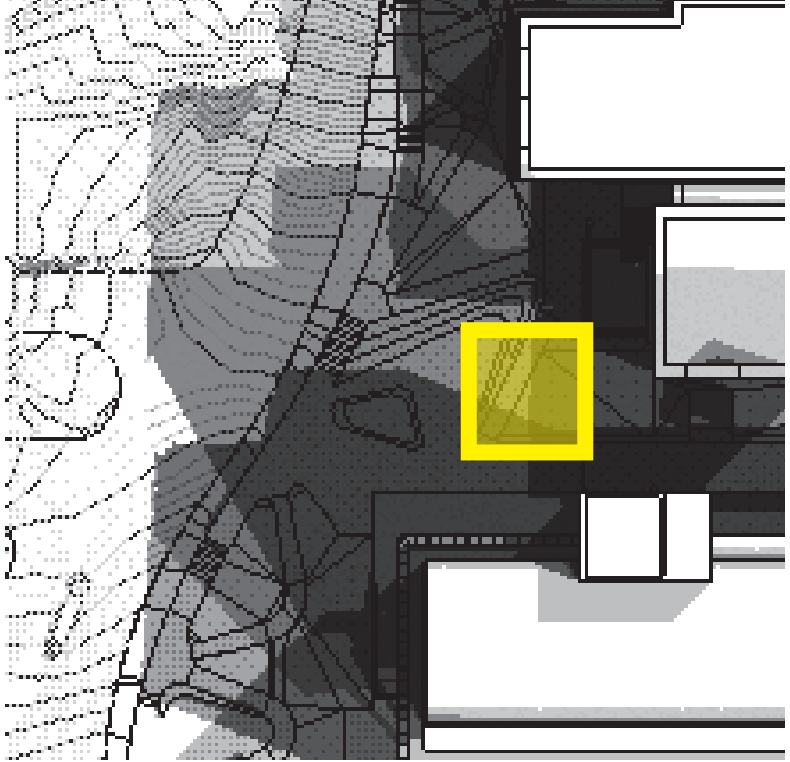
SOCIAL PROSPECT - OPTION 2- Garden Room



SOCIAL PROSPECT - OPTION 3 - Orthogonal Amphitheater

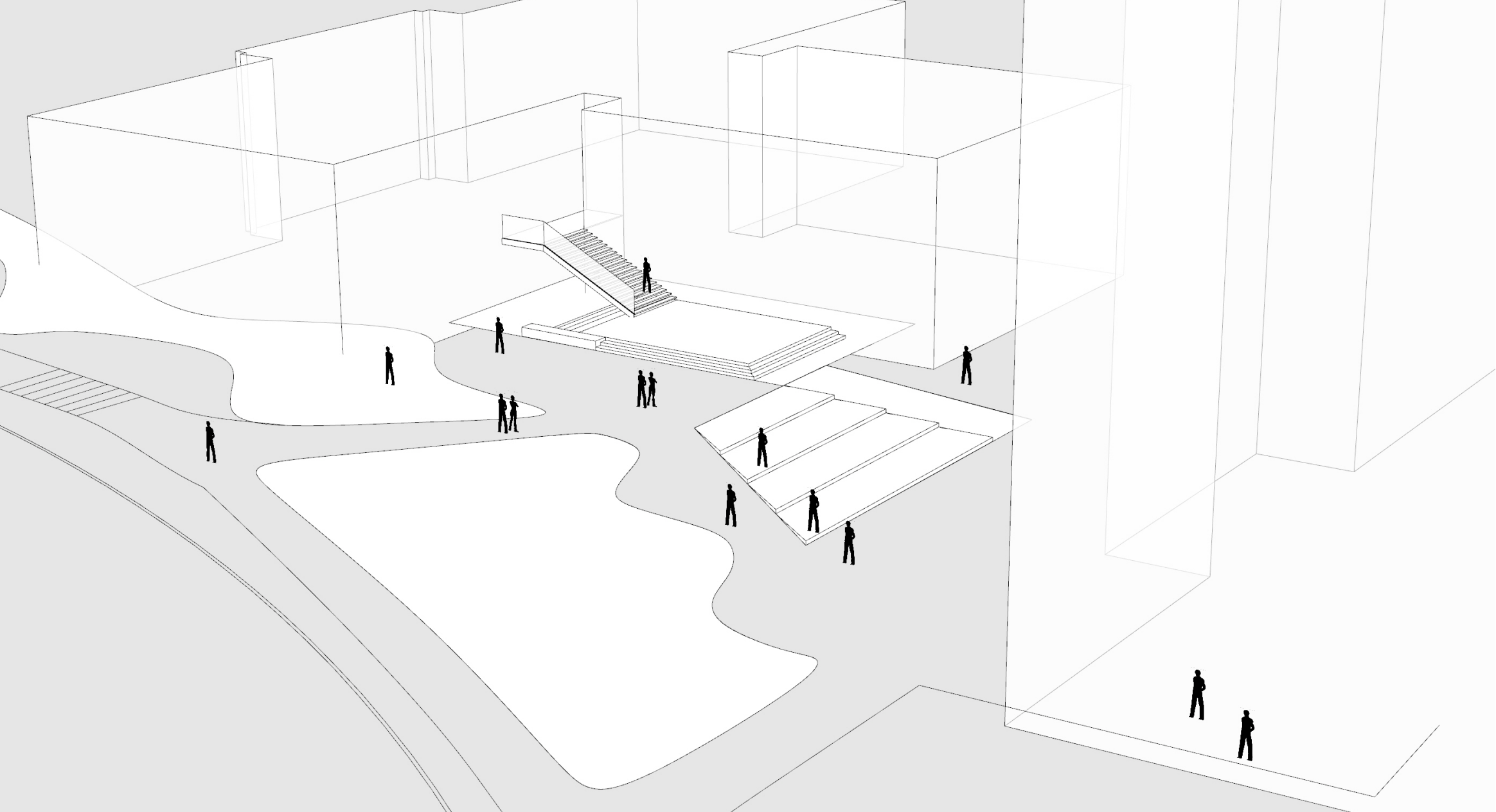


SOLAR STUDY

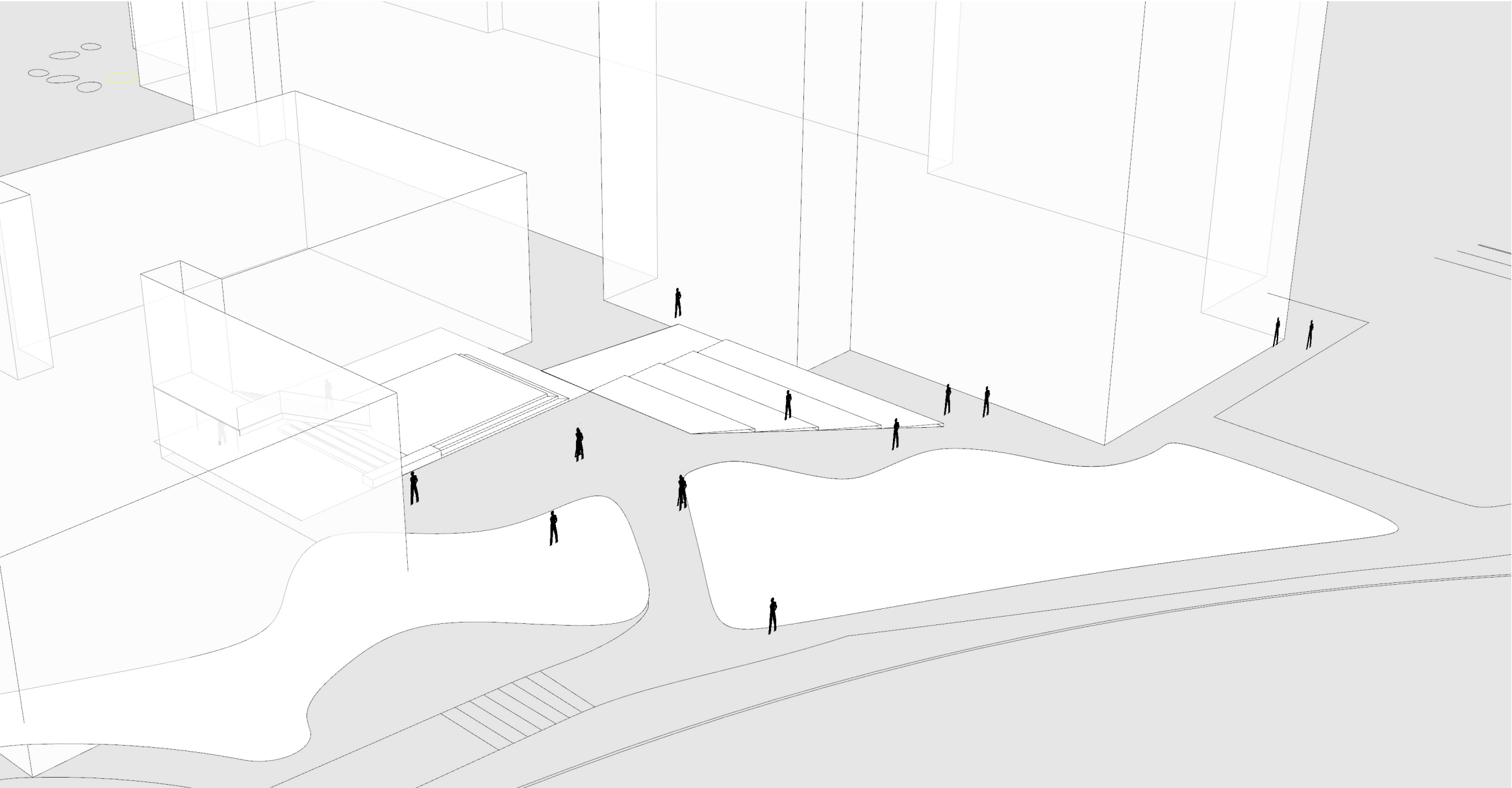


Midday Sun (11AM- 1PM)

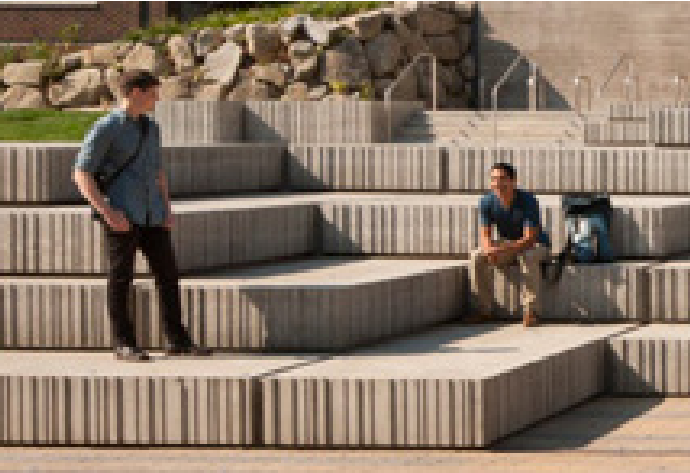
SOCIAL PROSPECT - OPTION 2 - Orthogonal Amphitheater



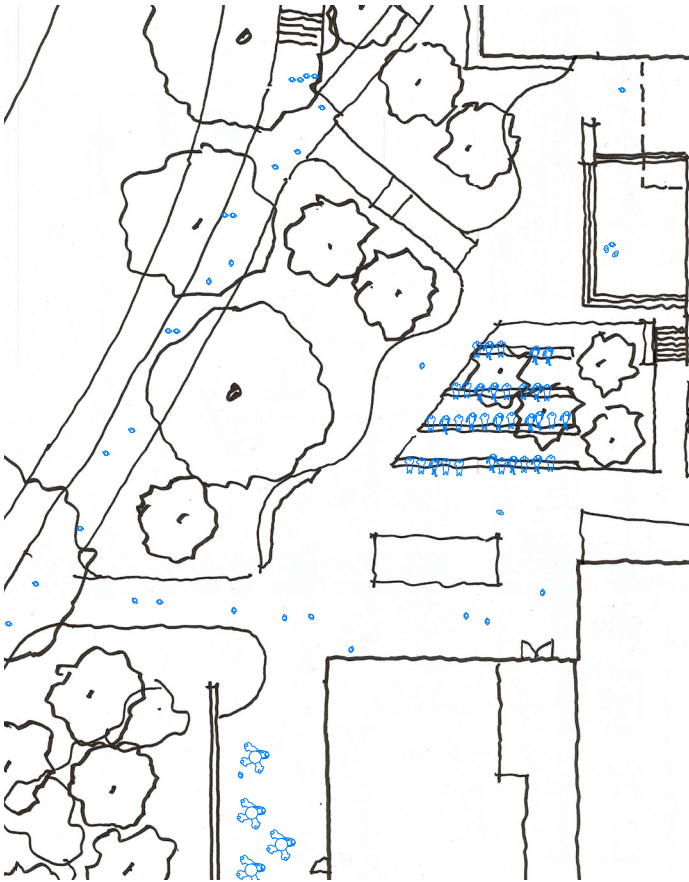
SOCIAL PROSPECT - OPTION 2 - Orthogonal Amphitheater



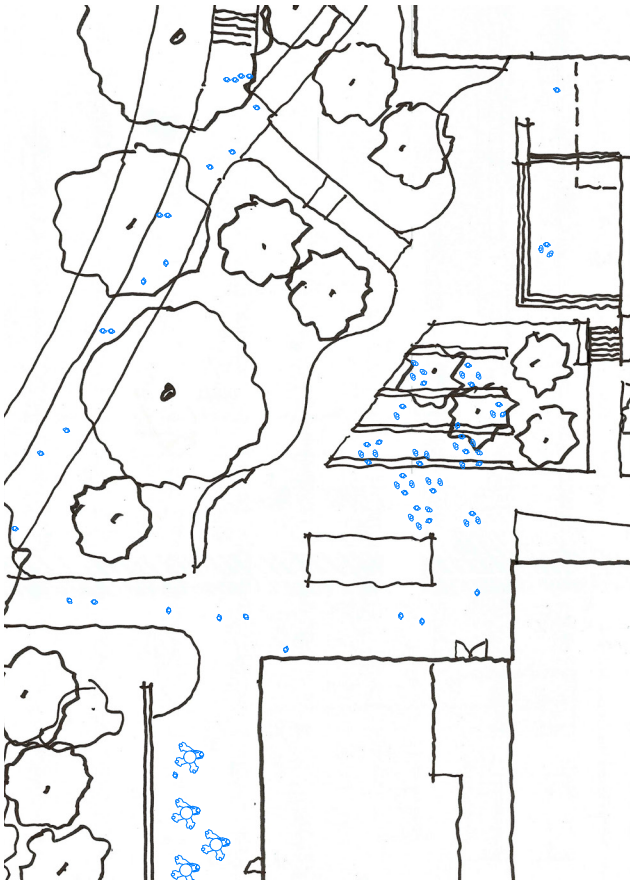
SOCIAL PROSPECT - OPTION 3 - Orthogonal Amphitheater



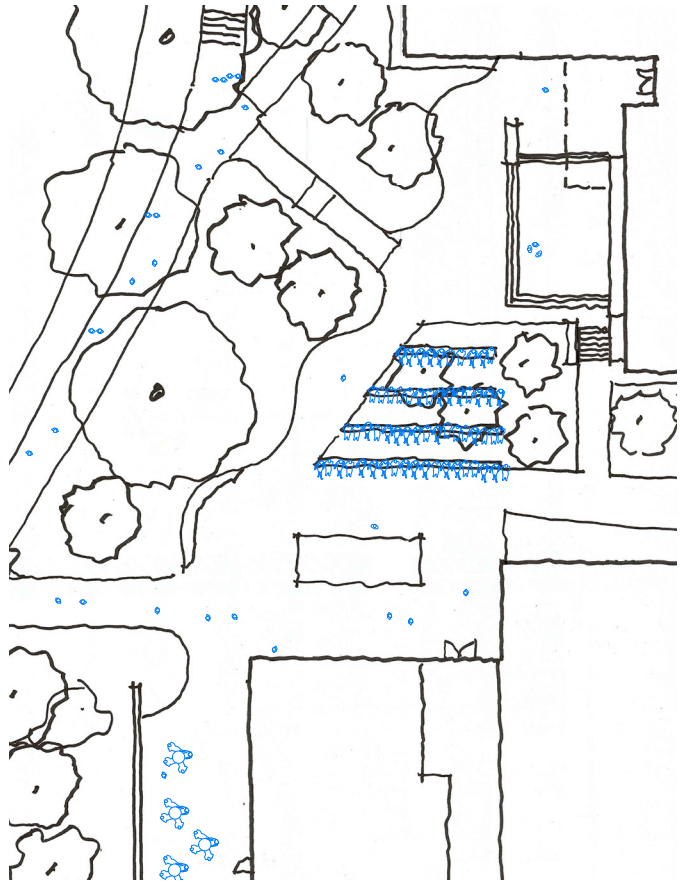
SOCIAL PROSPECT - OPTION 2 - Orthogonal Amphitheater



Small Groups - 45 people

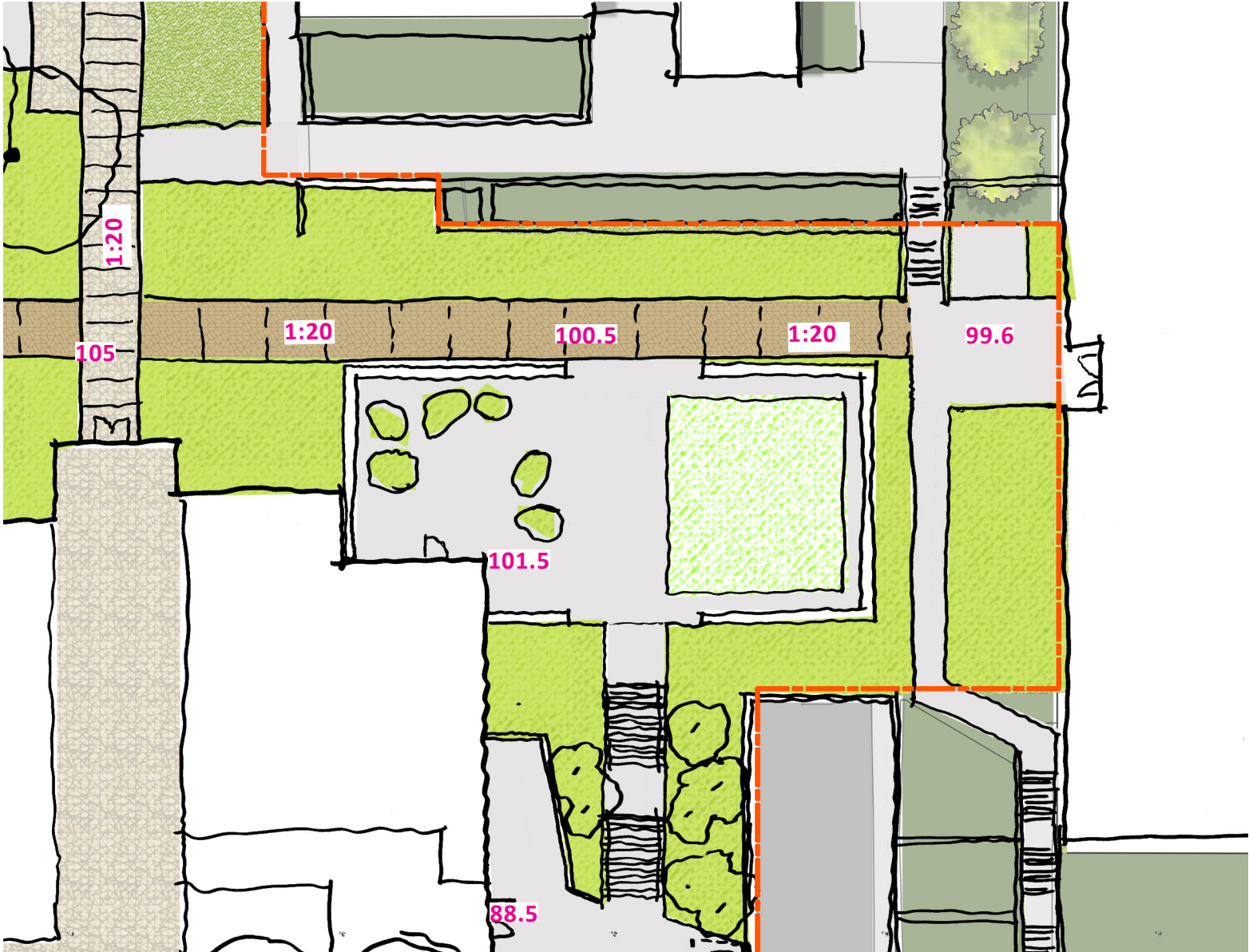


Small Classes - 35 people

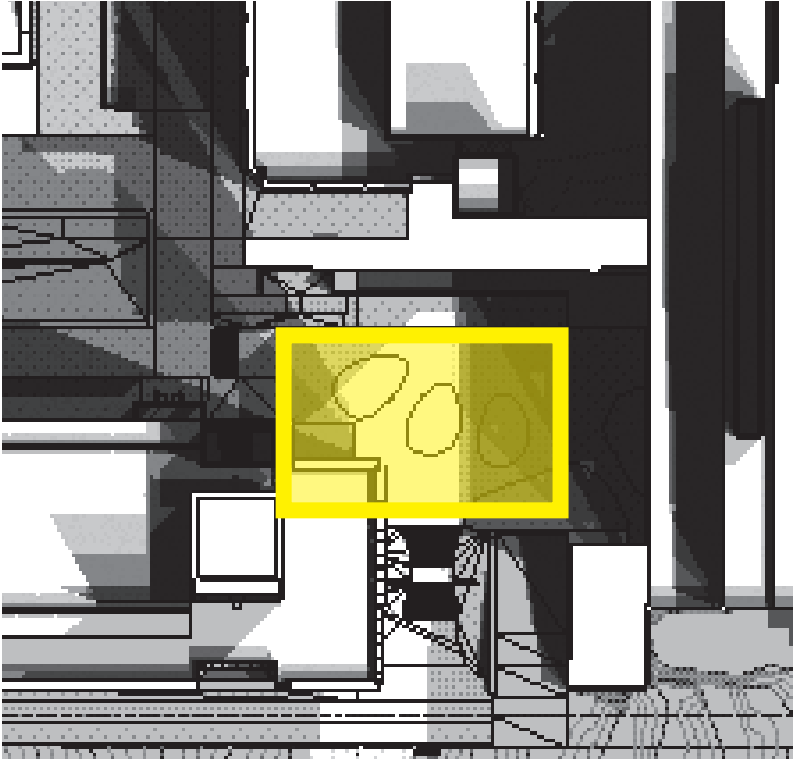


Large Classes - 75 people

SOUTH COURT - OPTION 1

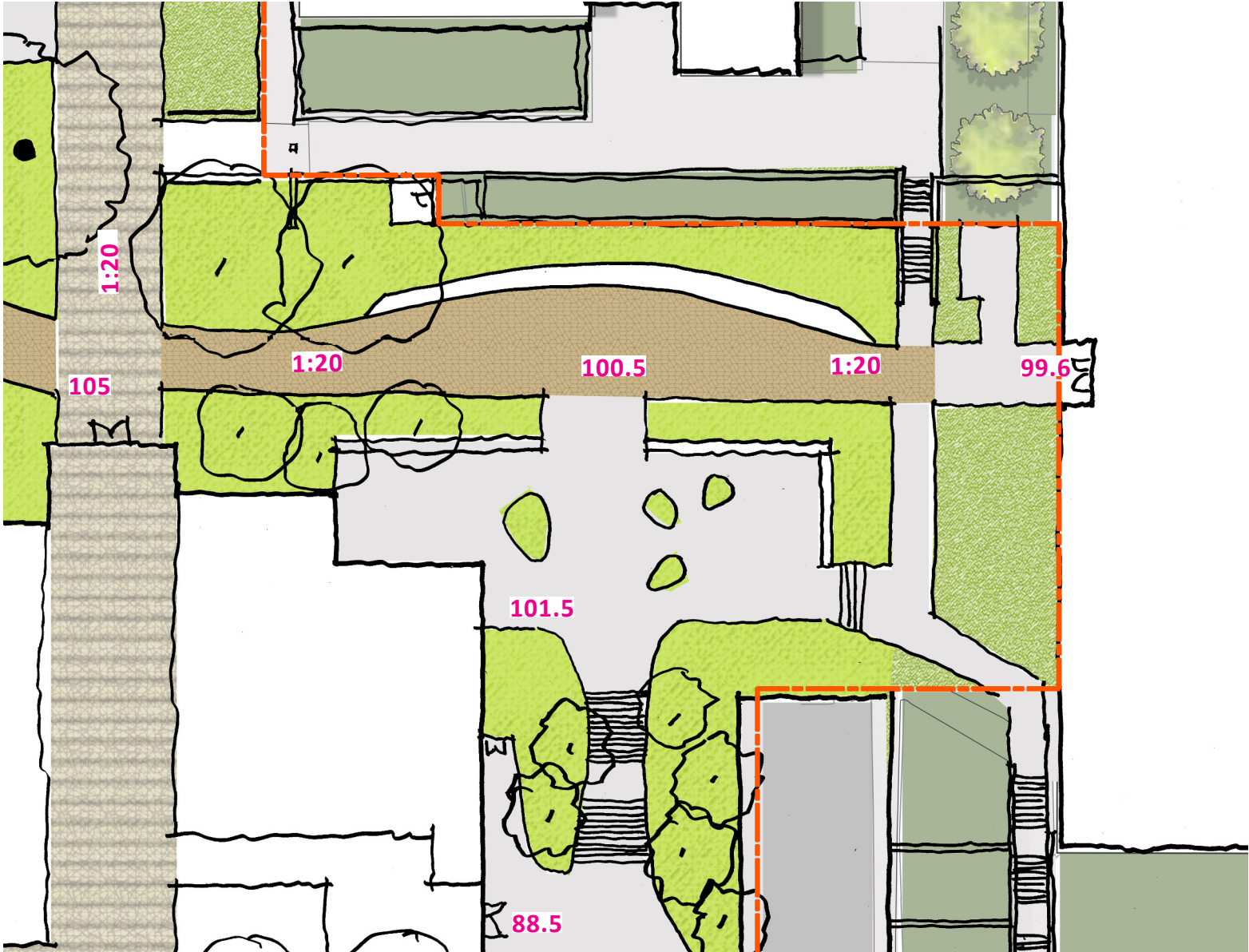


SOLAR STUDY

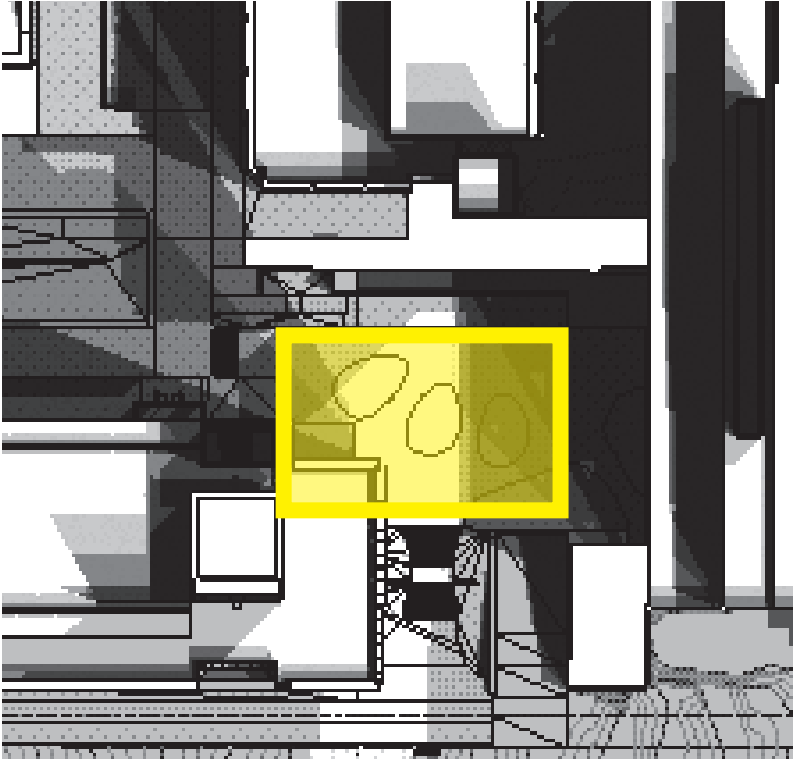


All Day Partial Sun

SOUTH COURT - OPTION 2

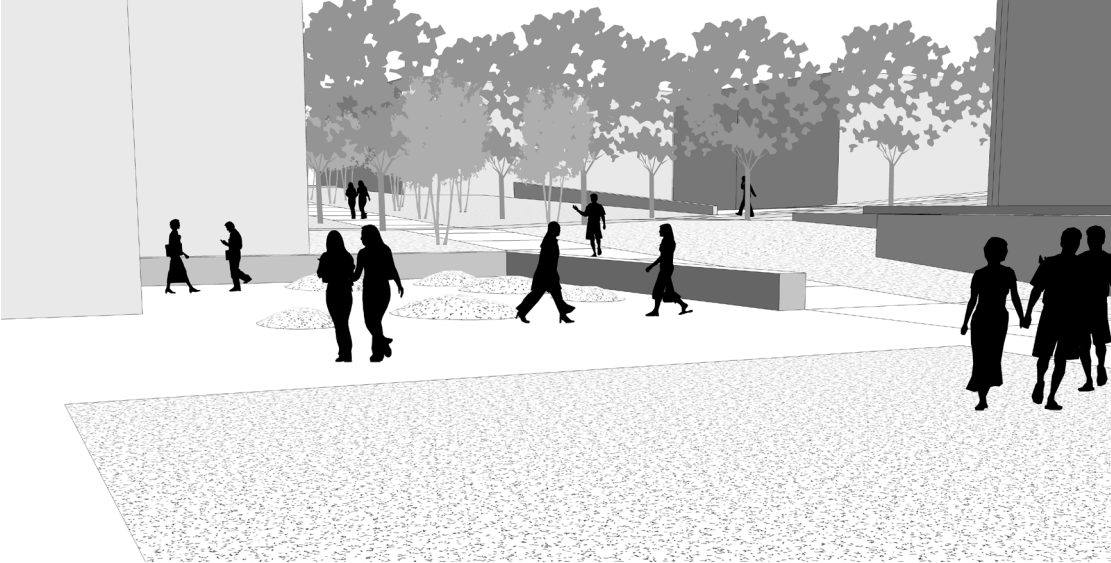
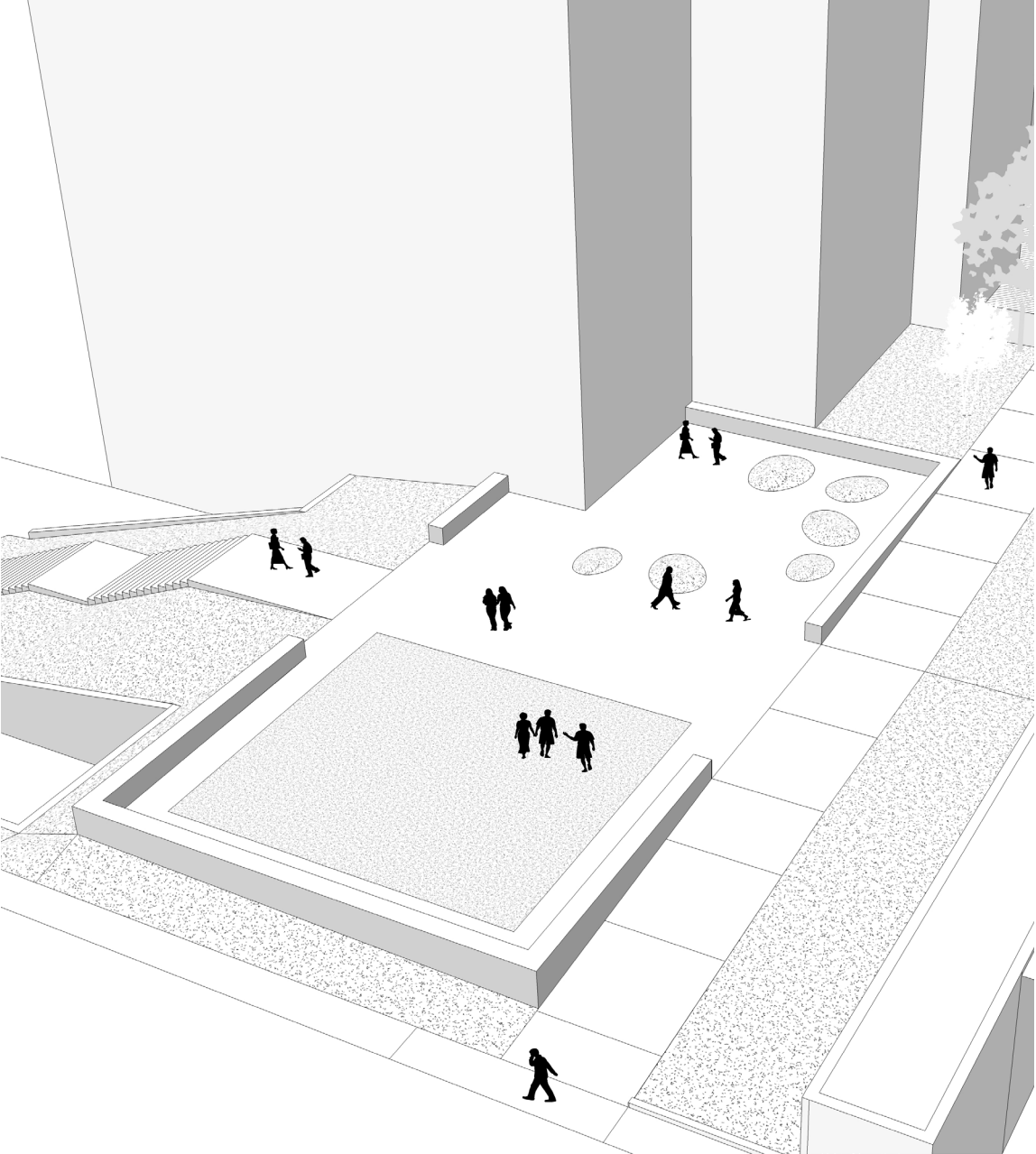


SOLAR STUDY



All Day Partial Sun

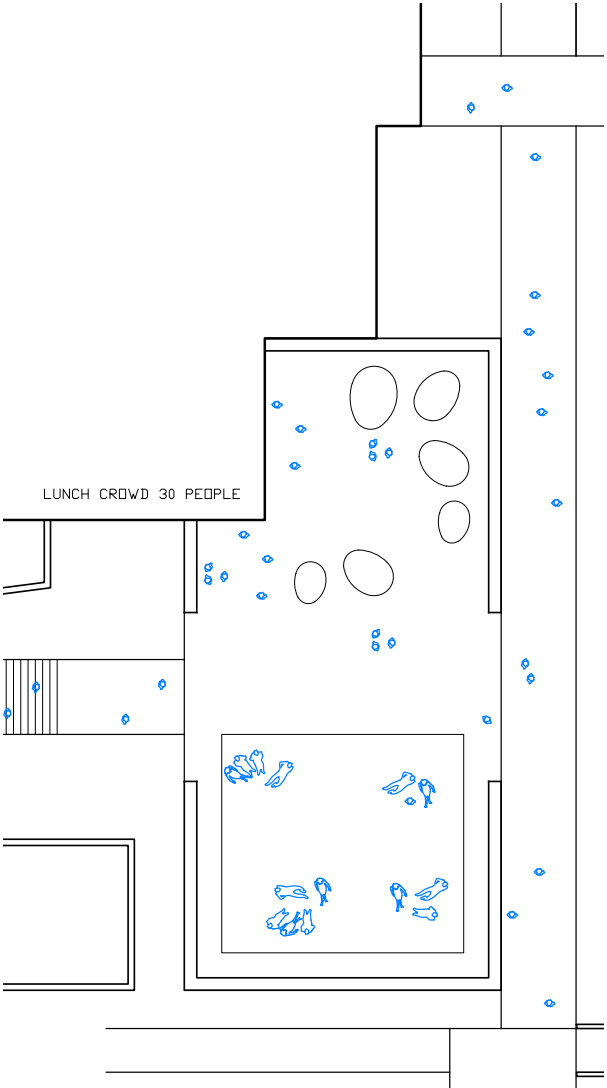
SOUTH COURT



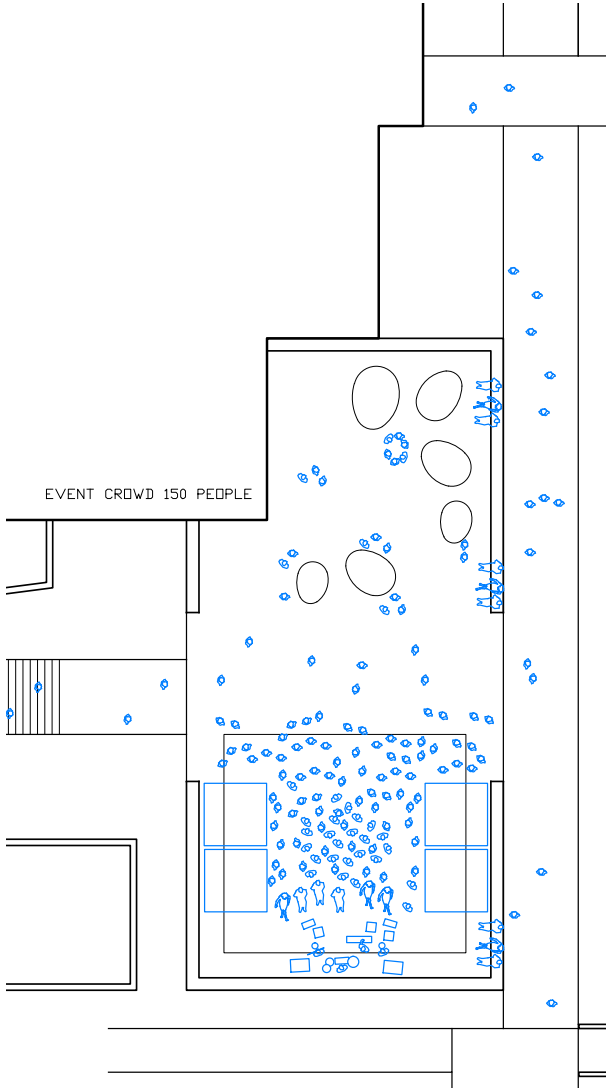
SOUTH COURT



SOUTH COURT EVENTS

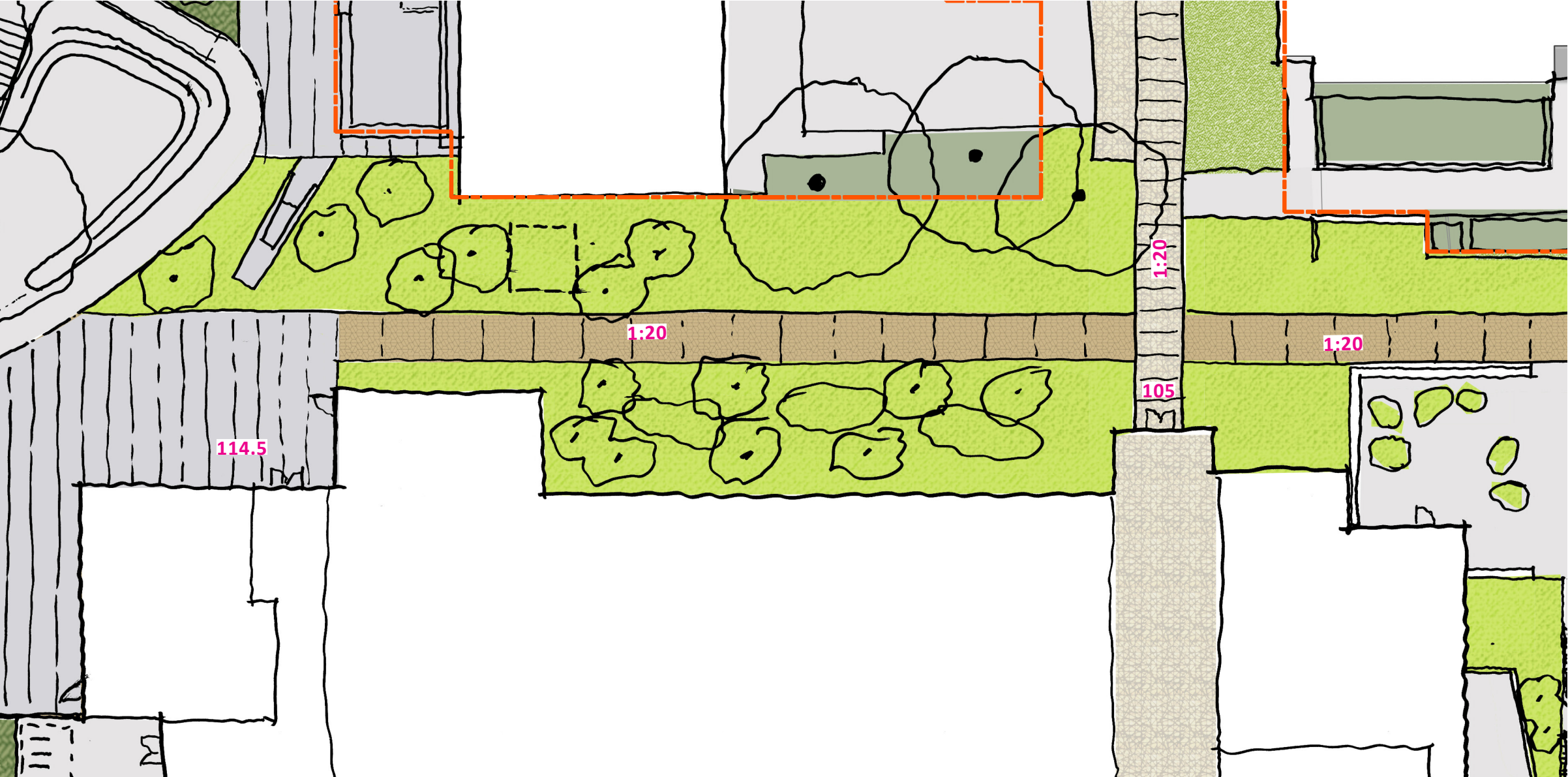


Small Groups - 30 people



Large Event - 150 people

GARDEN WALK - OPTION 1 - Straight Path



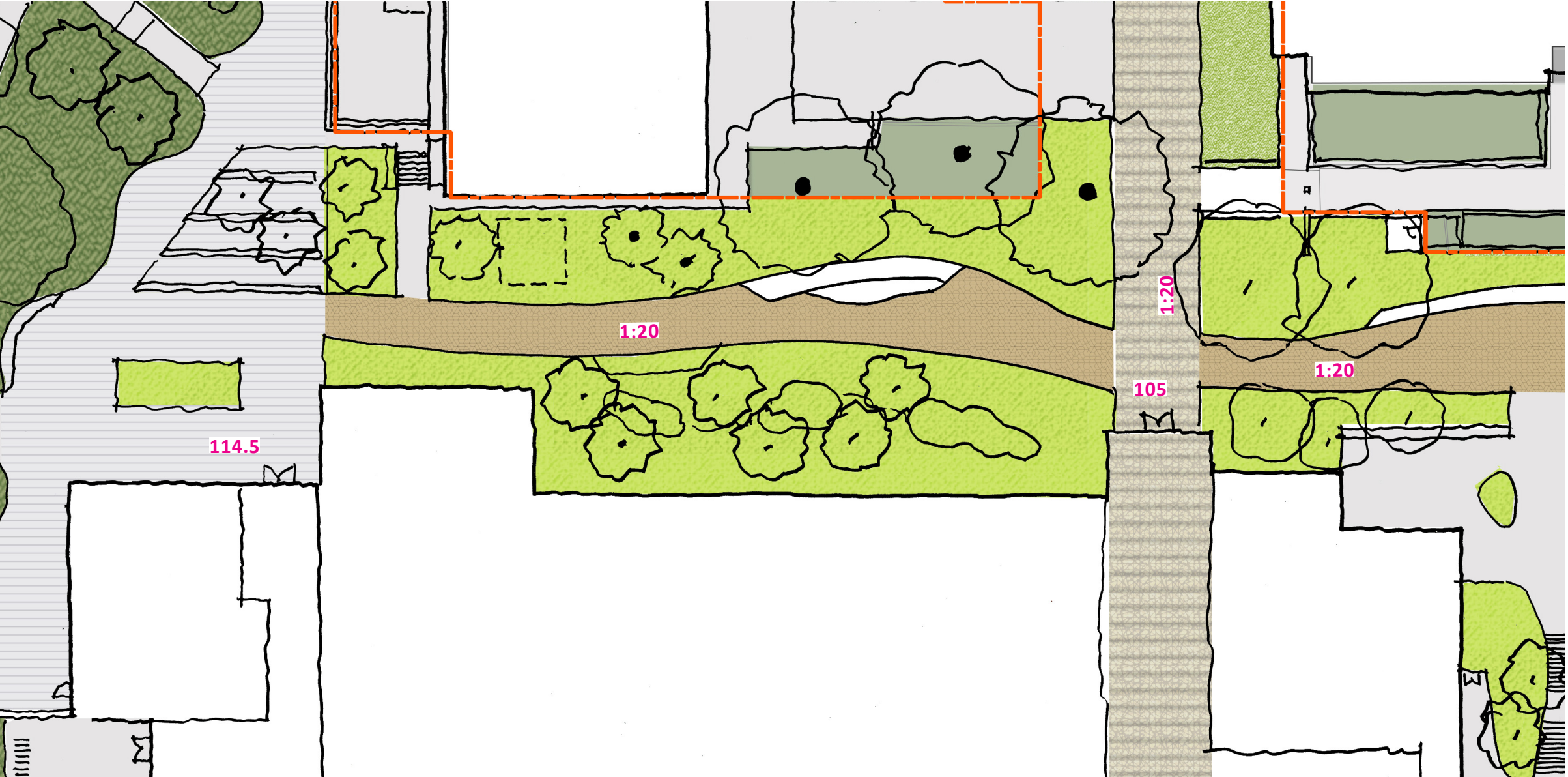
GARDEN WALK - OPTION 1 - Straight Path



GARDEN WALK - OPTION 1 - Straight Path



GARDEN WALK - OPTION 2 - Curved Path



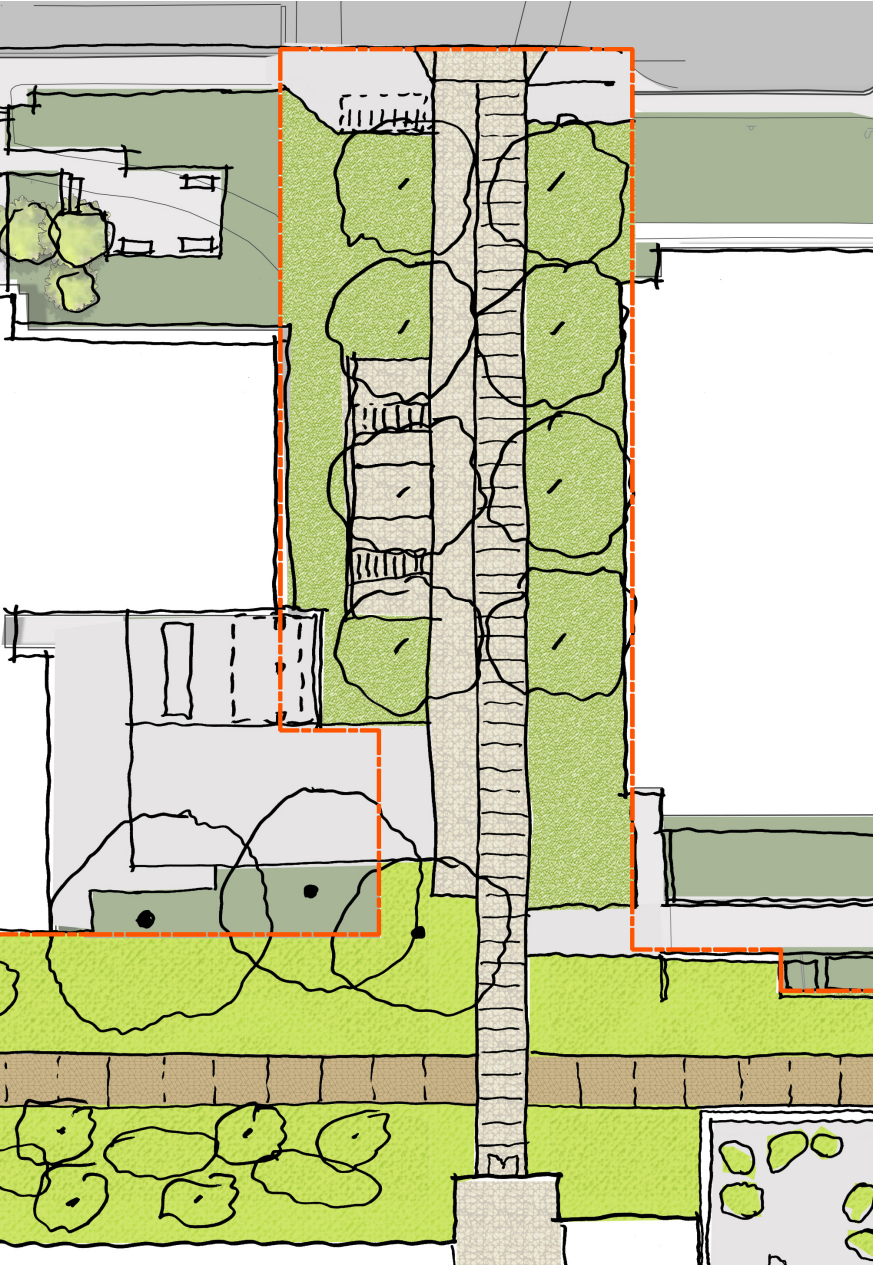
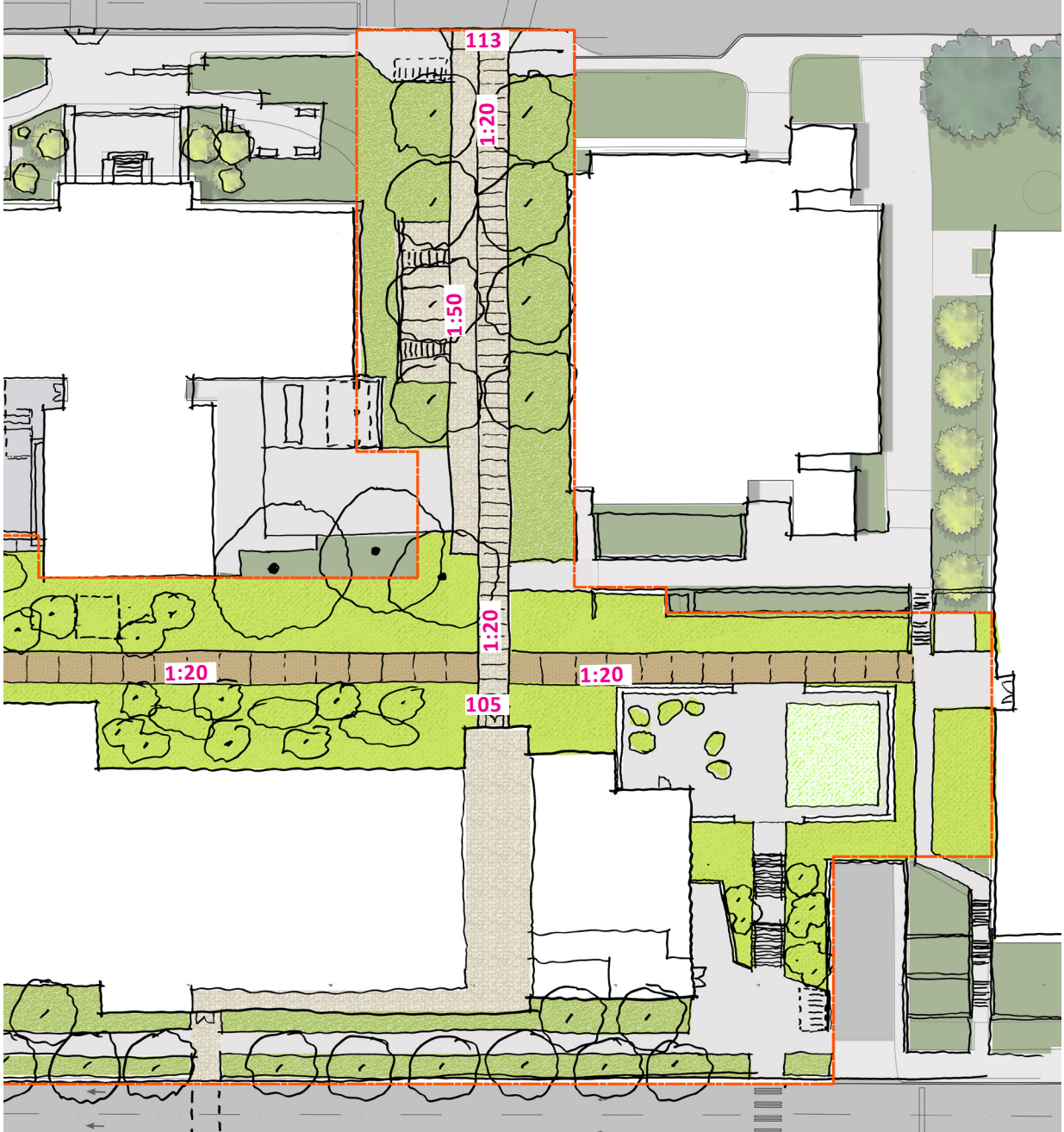
GARDEN WALK - OPTION 2 - Curved Path



GARDEN WALK - OPTION 2 - Curved Path



URBAN PASSAGE - Asotin Lane



URBAN PASSAGE - Asotin Lane



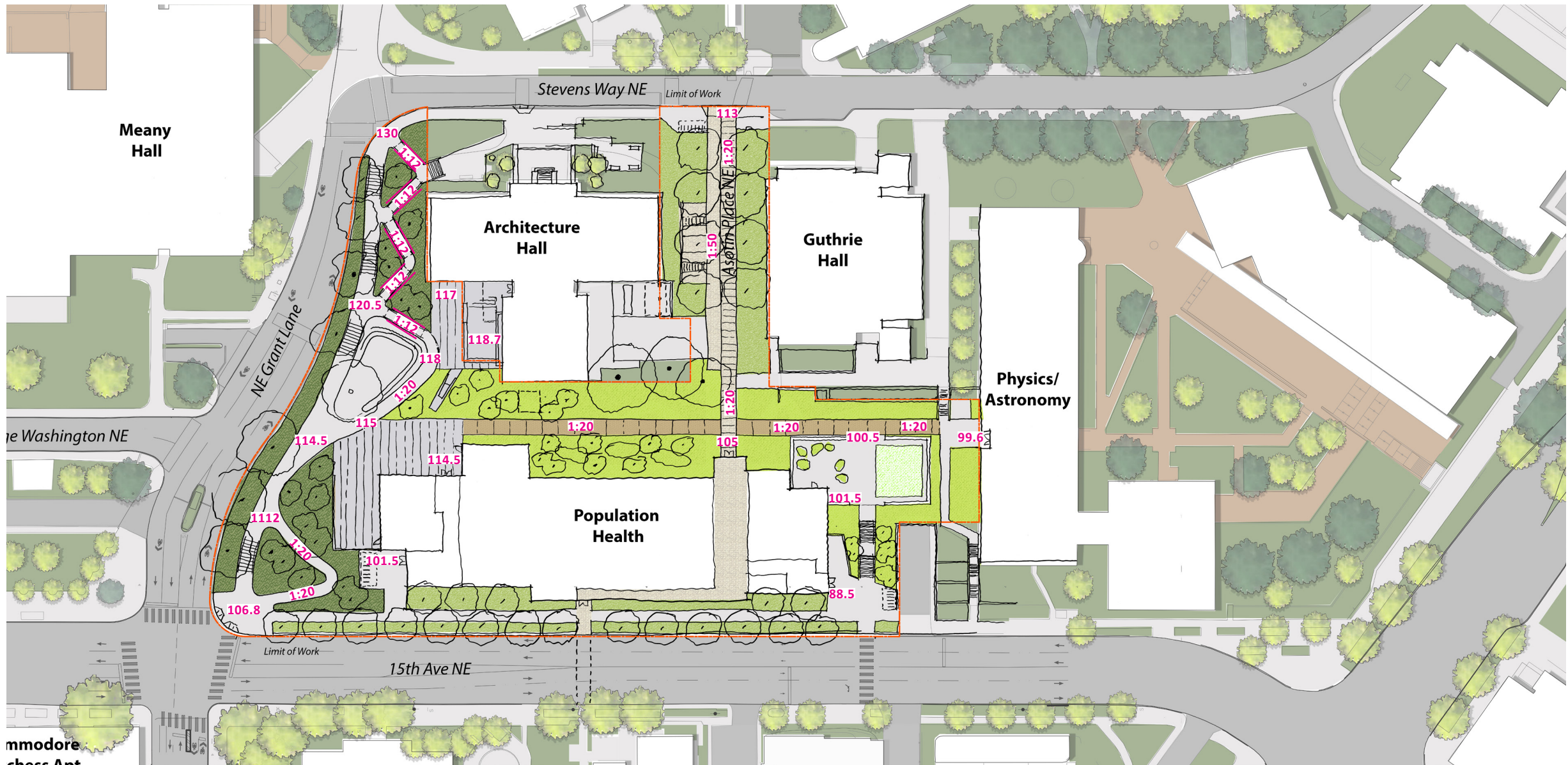
URBAN PASSAGE - Asotin Lane



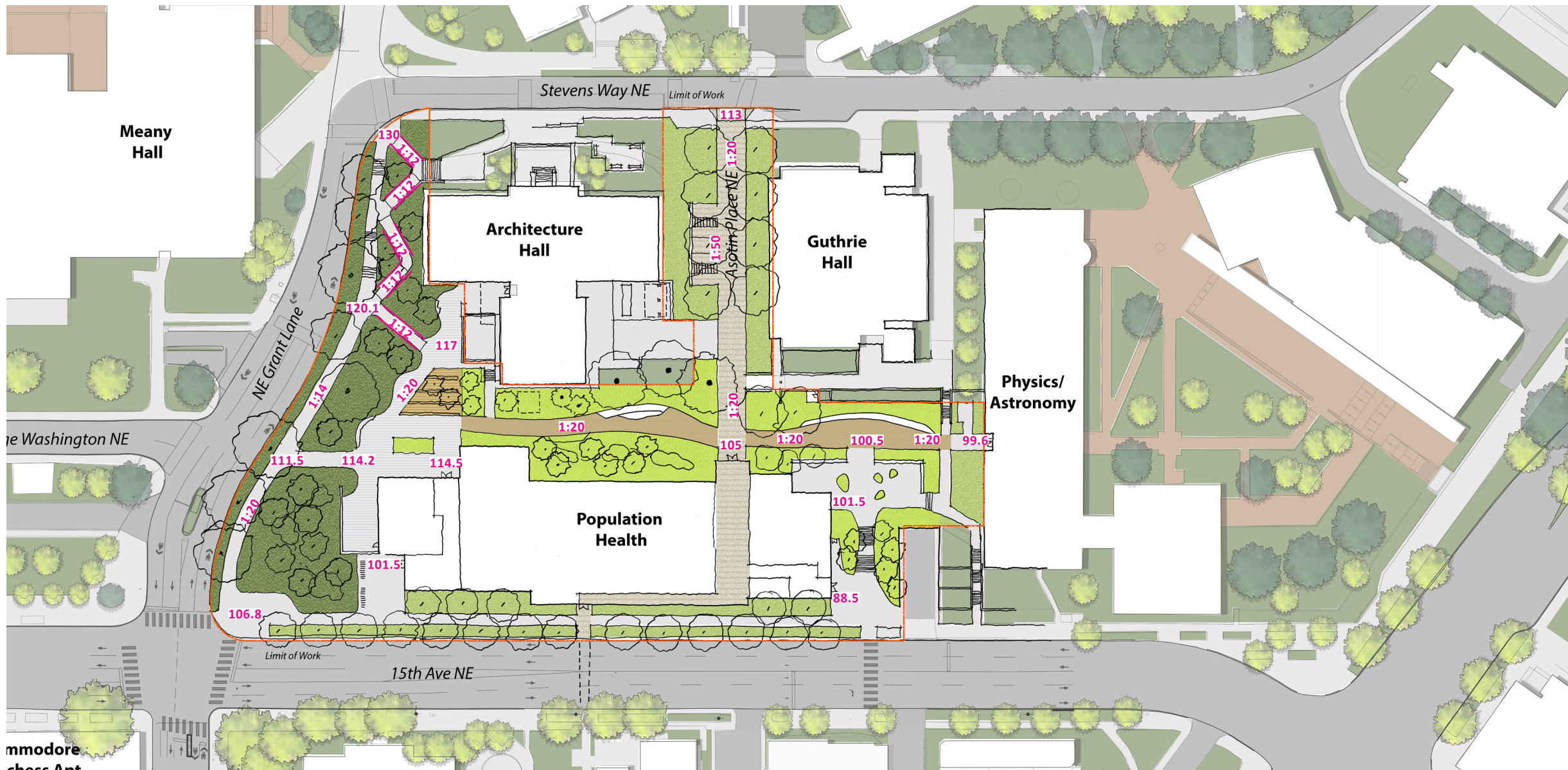
URBAN PASSAGE - Asotin Lane



LANDSCAPE SCHEMATIC DESIGN - OPTION 01

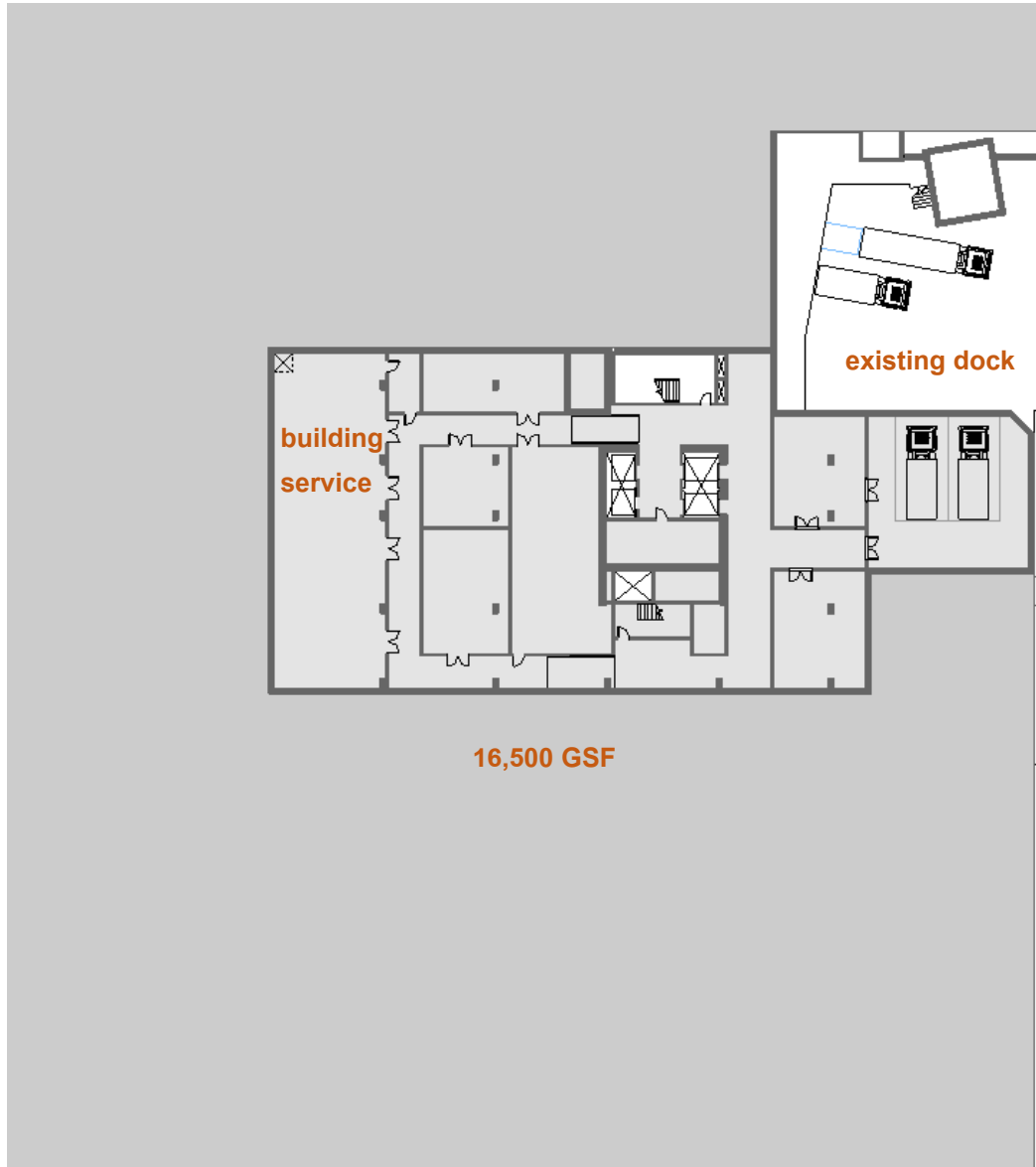


LANDSCAPE SCHEMATIC DESIGN - OPTION 02

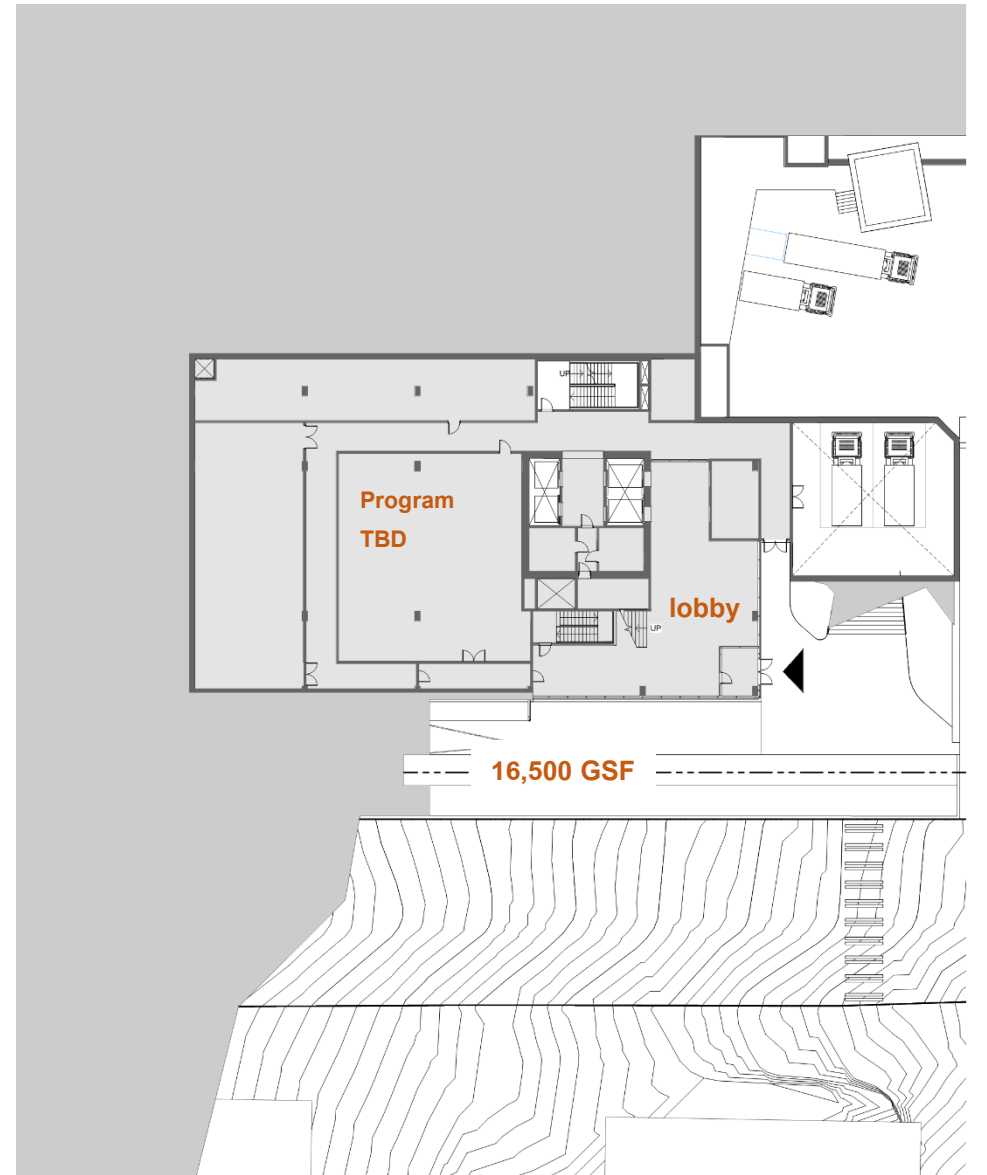


POPULATION HEALTH FACILITY
architectural design progress

BASEMENT EXTENTS

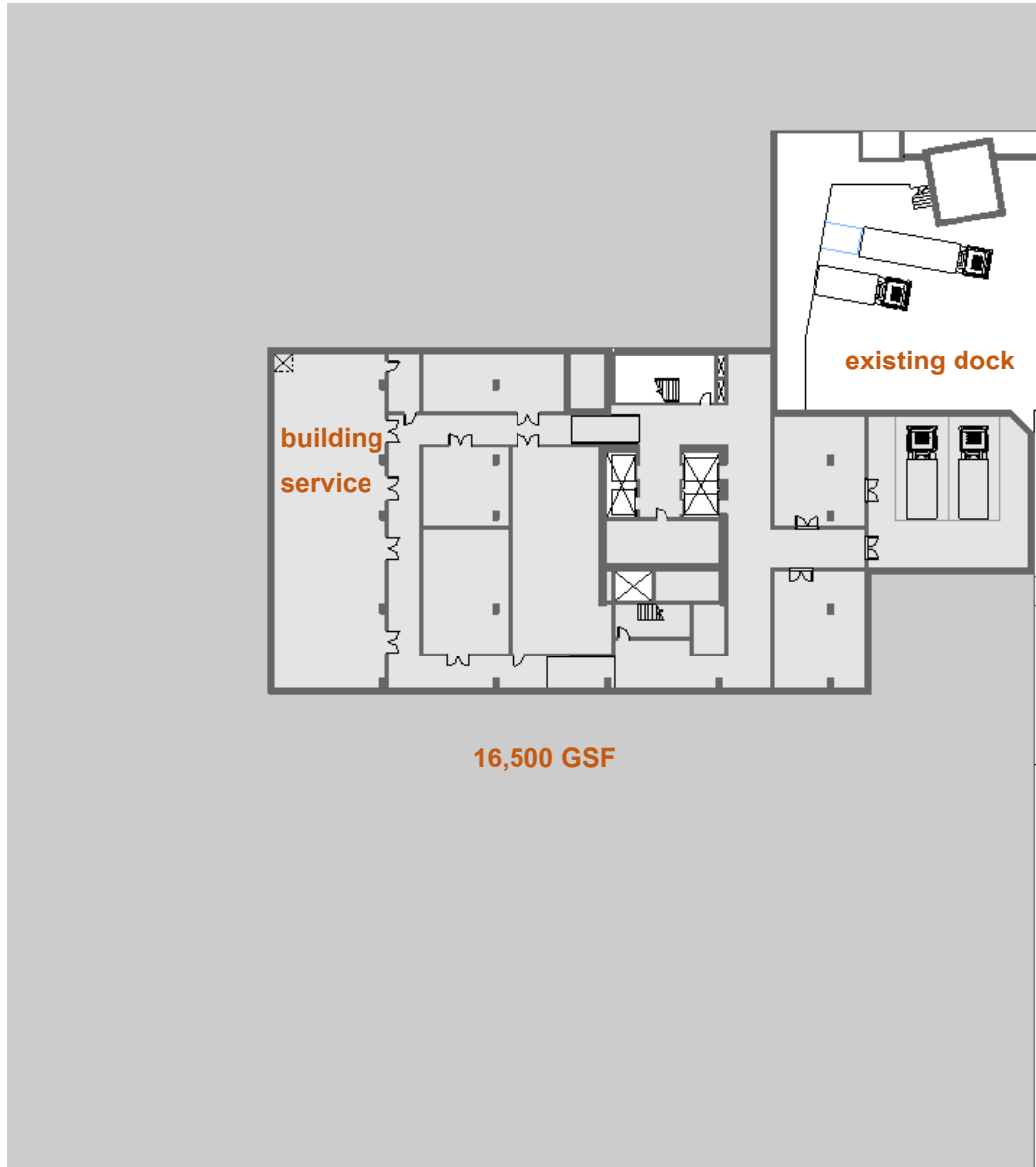


LEVEL B2

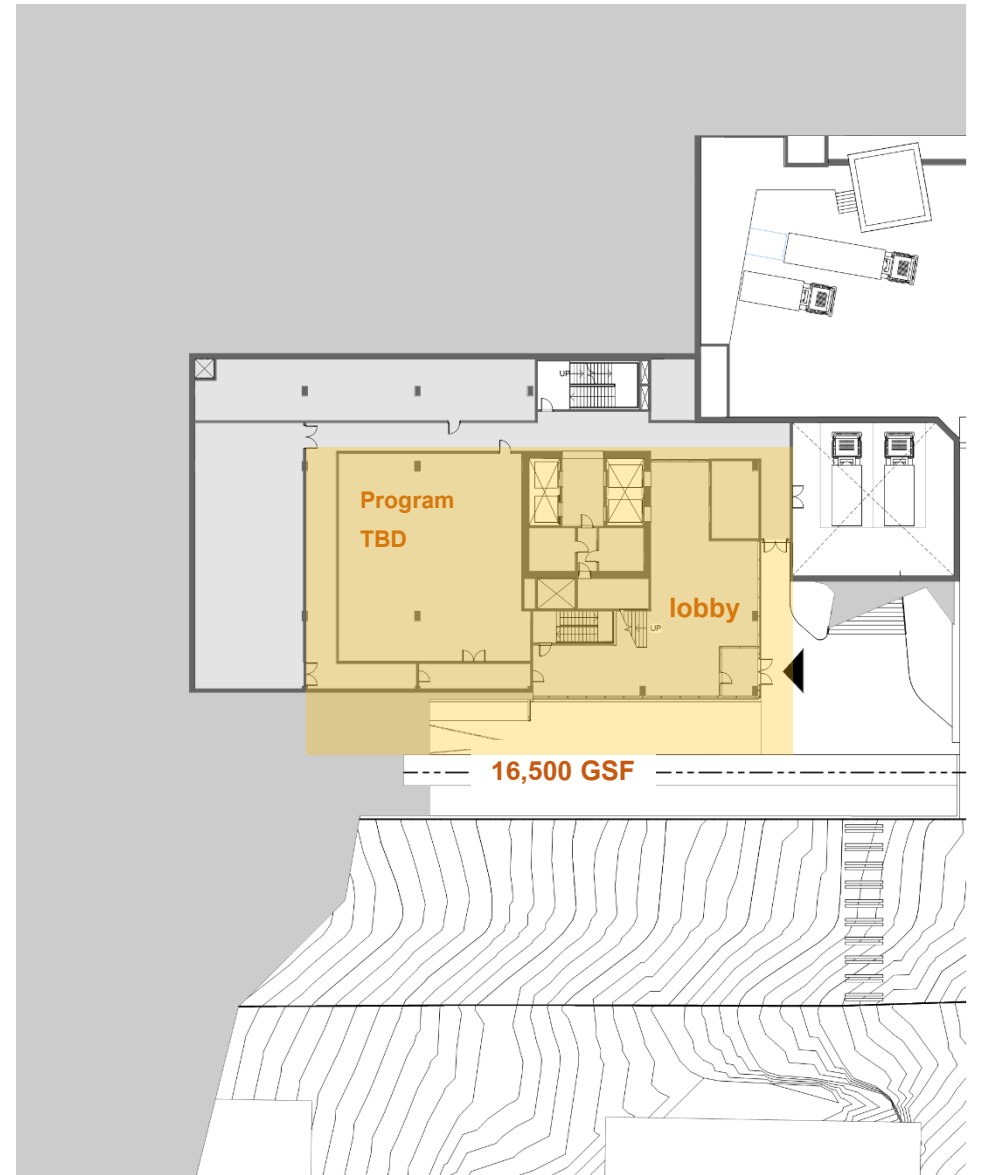


LEVEL B1

BASEMENT EXTENTS

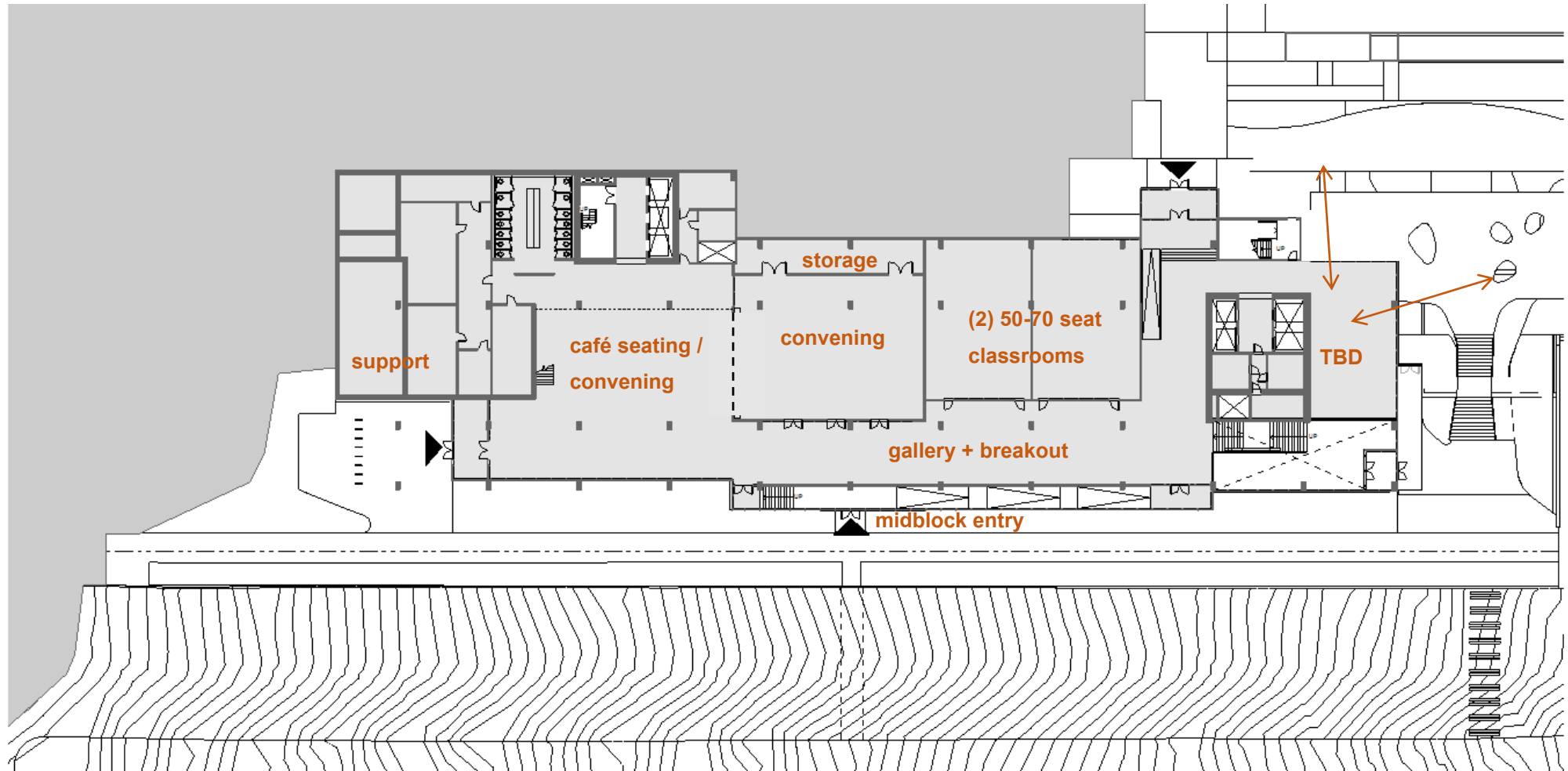


LEVEL B2

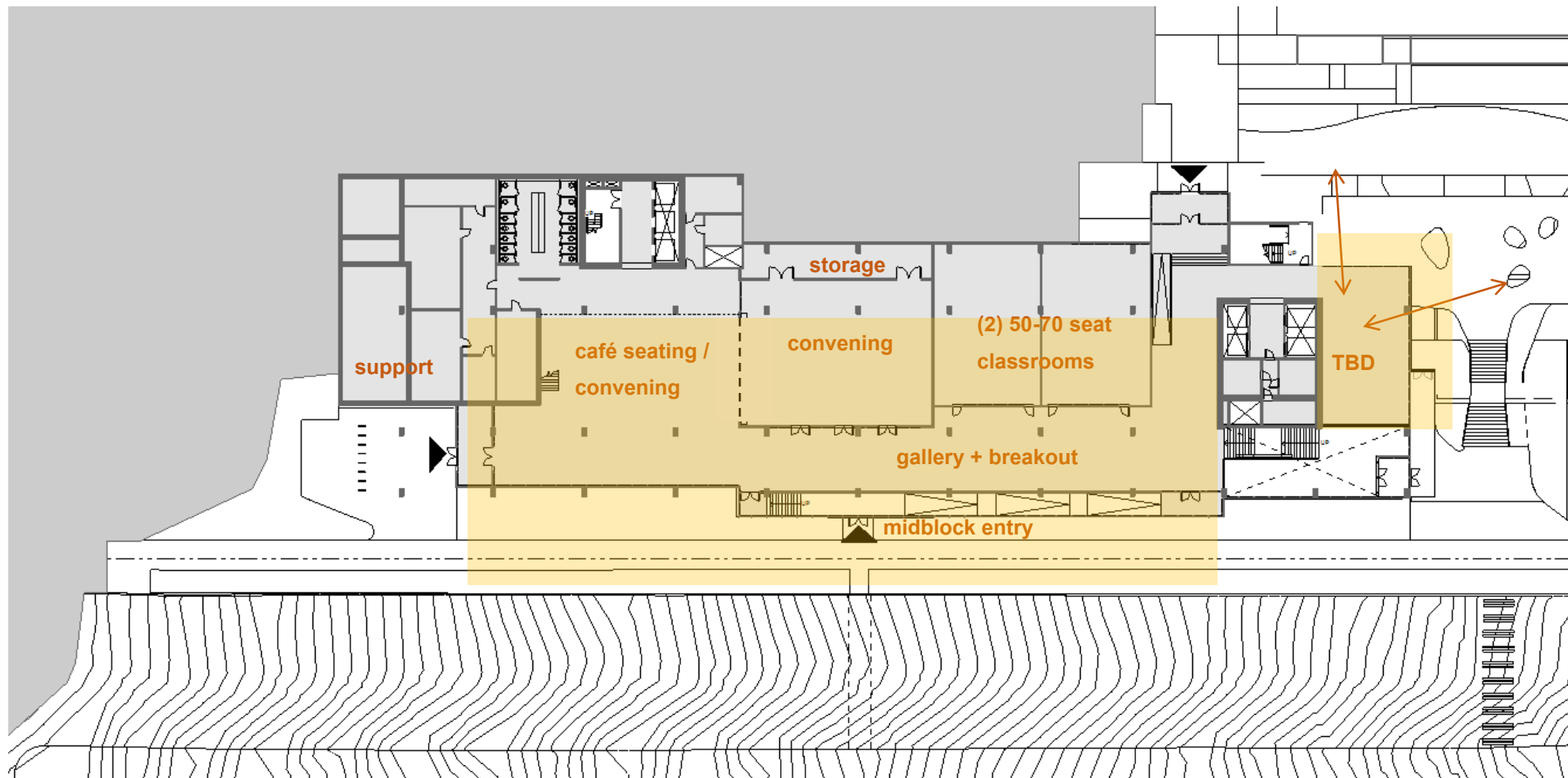


LEVEL B1

BUILDING ENTRIES + GROUND FLOOR PROGRAM



BUILDING ENTRIES + GROUND FLOOR PROGRAM

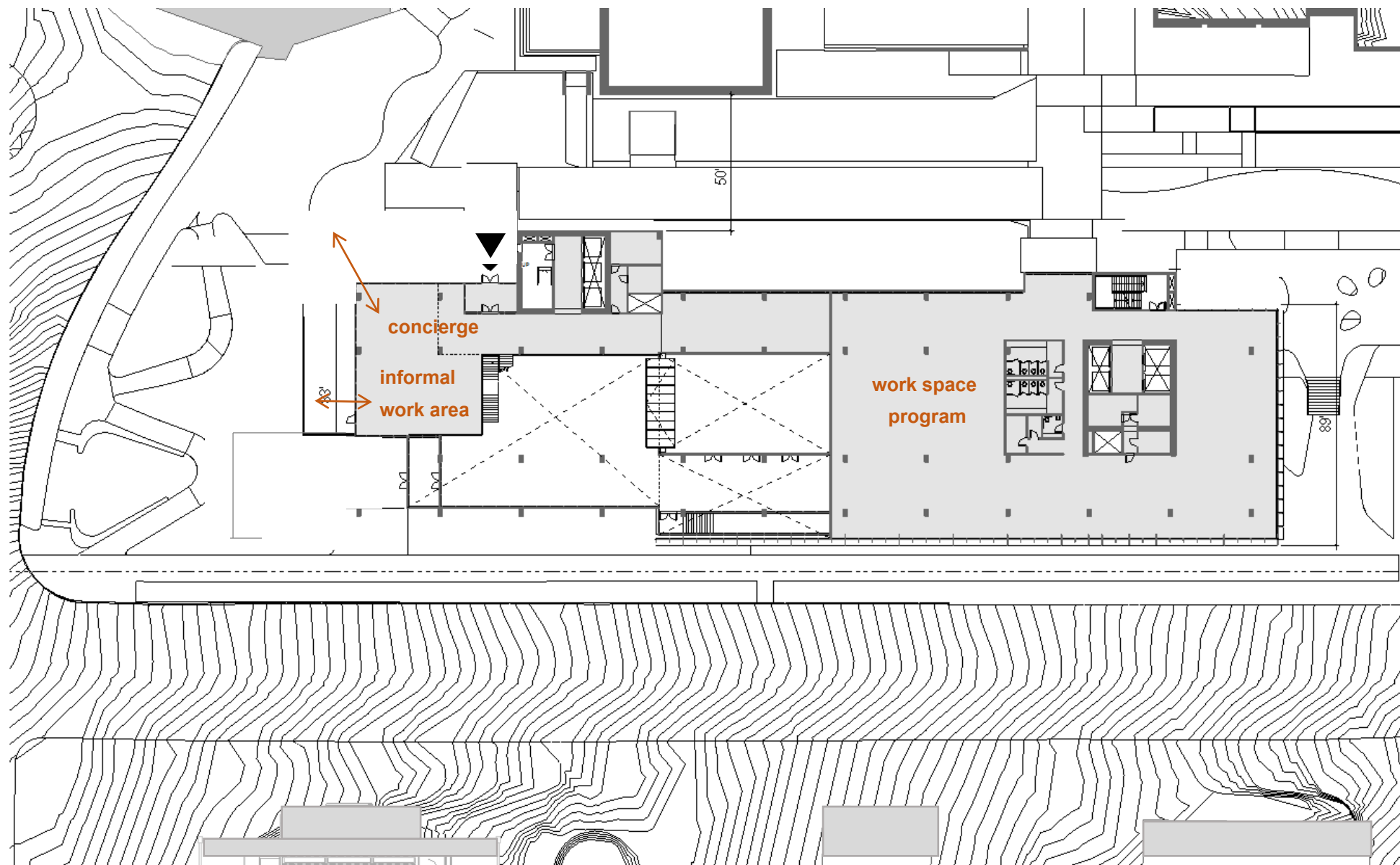




THE POPULATION HEALTH FACILITY

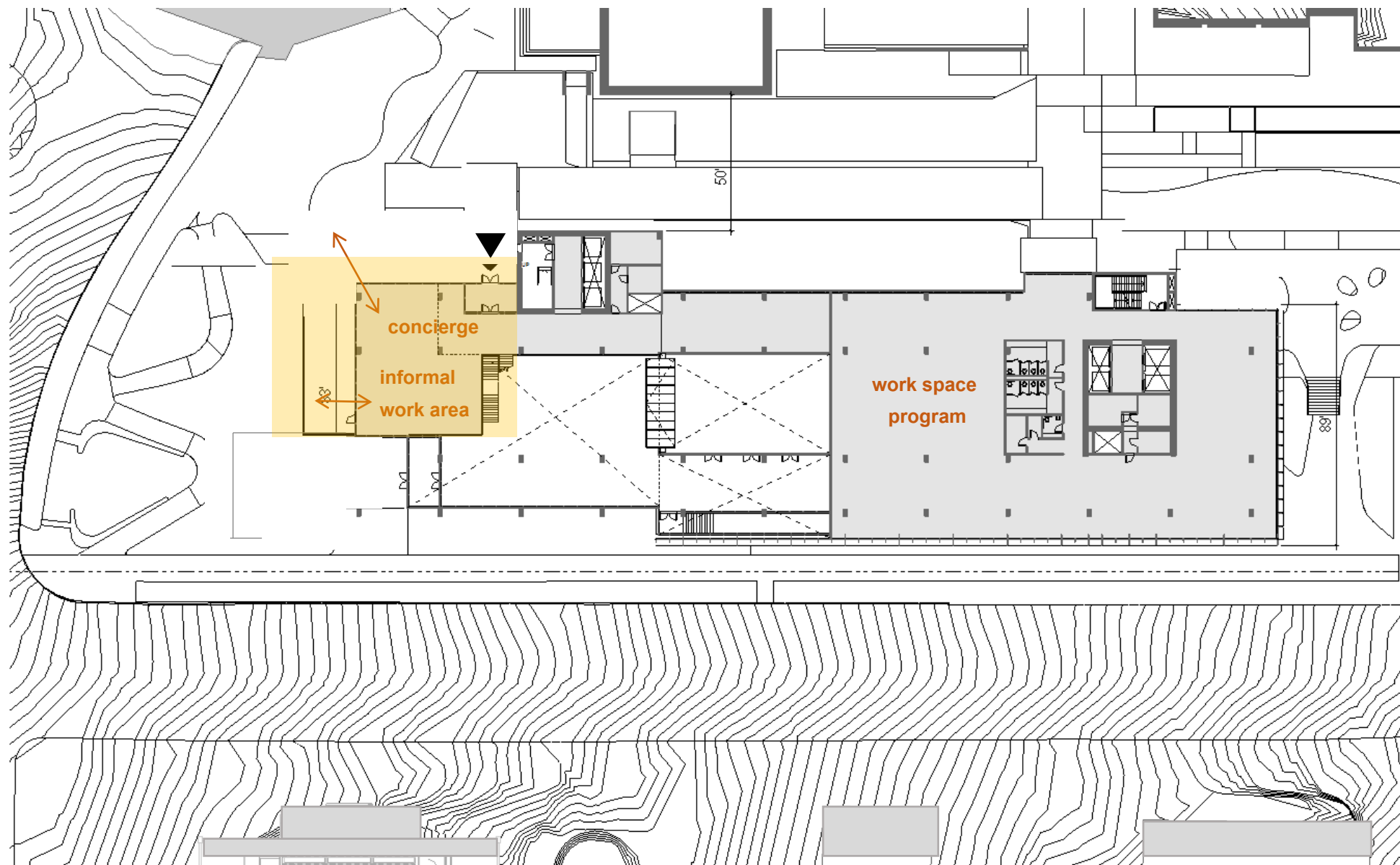


BUILDING ENTRIES + GROUND FLOOR PROGRAM



— ⊕ LEVEL 2

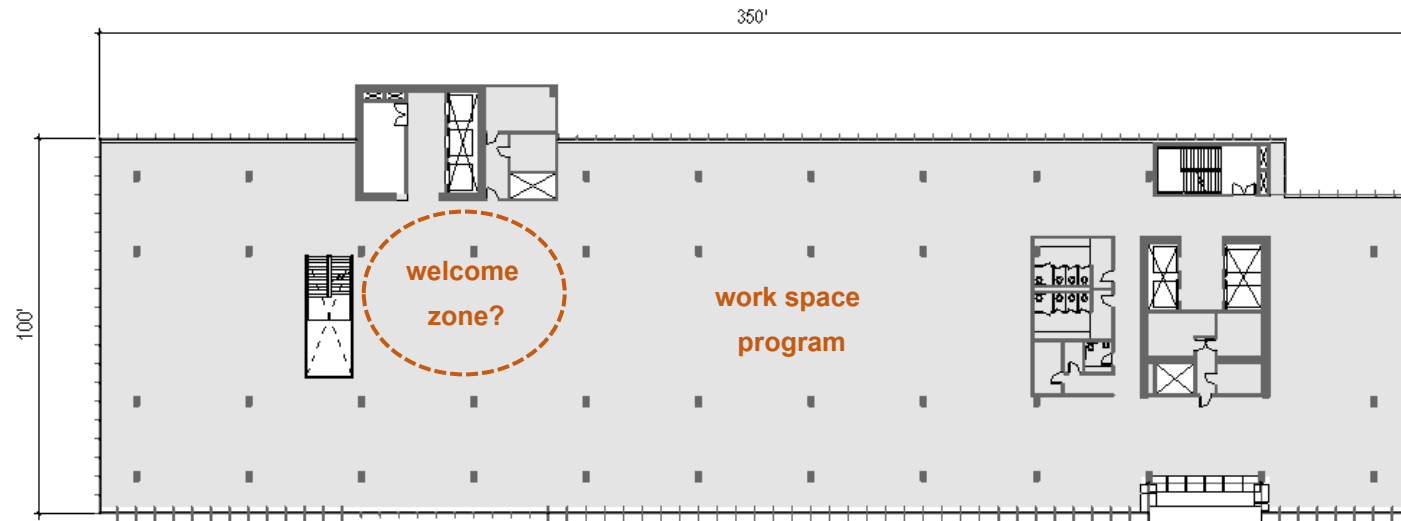
BUILDING ENTRIES + GROUND FLOOR PROGRAM



— ⊕ LEVEL 2



TYPICAL OFFICE FLOOR PLATE



CONNECTION TO (ONE'S) SELF



personal health / wellness



daylight / views / fresh air



individual control



space to focus

CONNECTION TO THE TEAM (family, community)



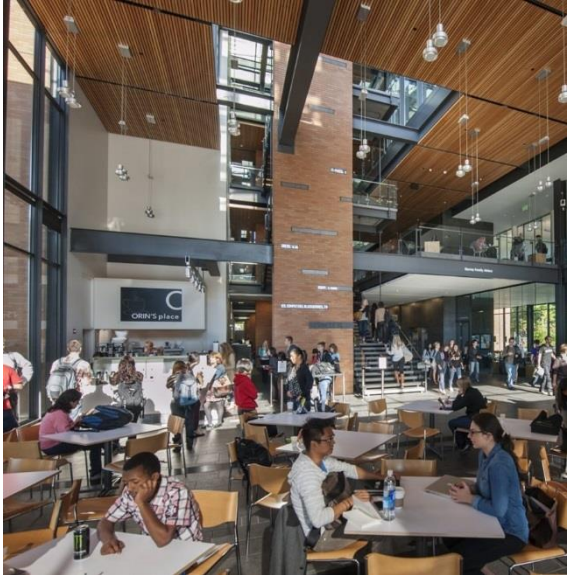
chance encounters



team engagement

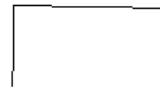
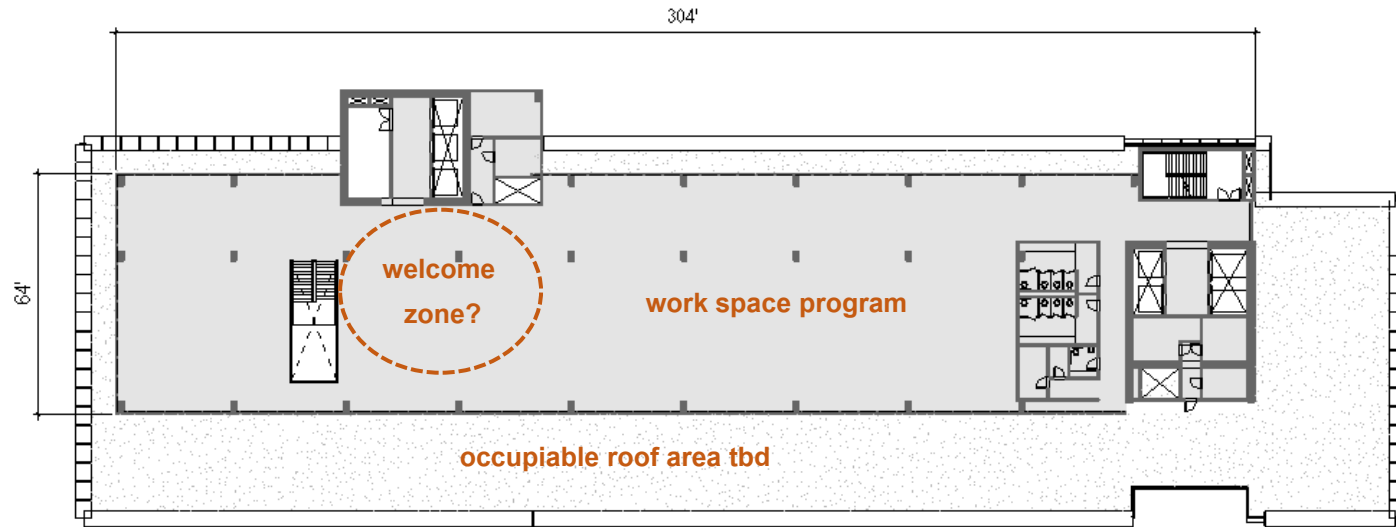


the initiative



campus fabric

TOP FLOOR PLATE



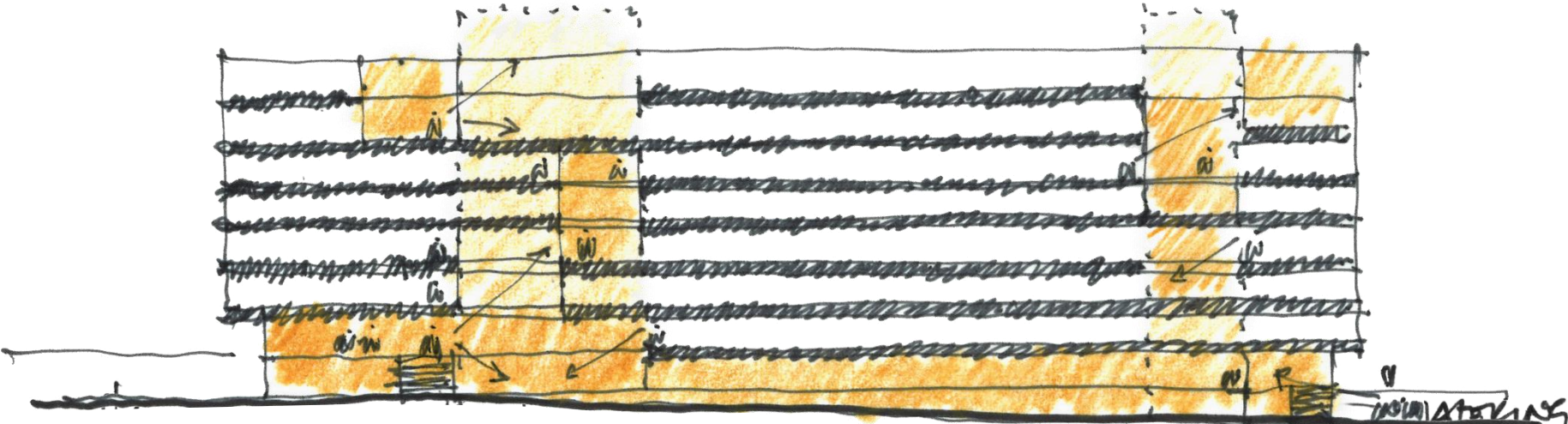
LEVEL 8

building modulation & expression

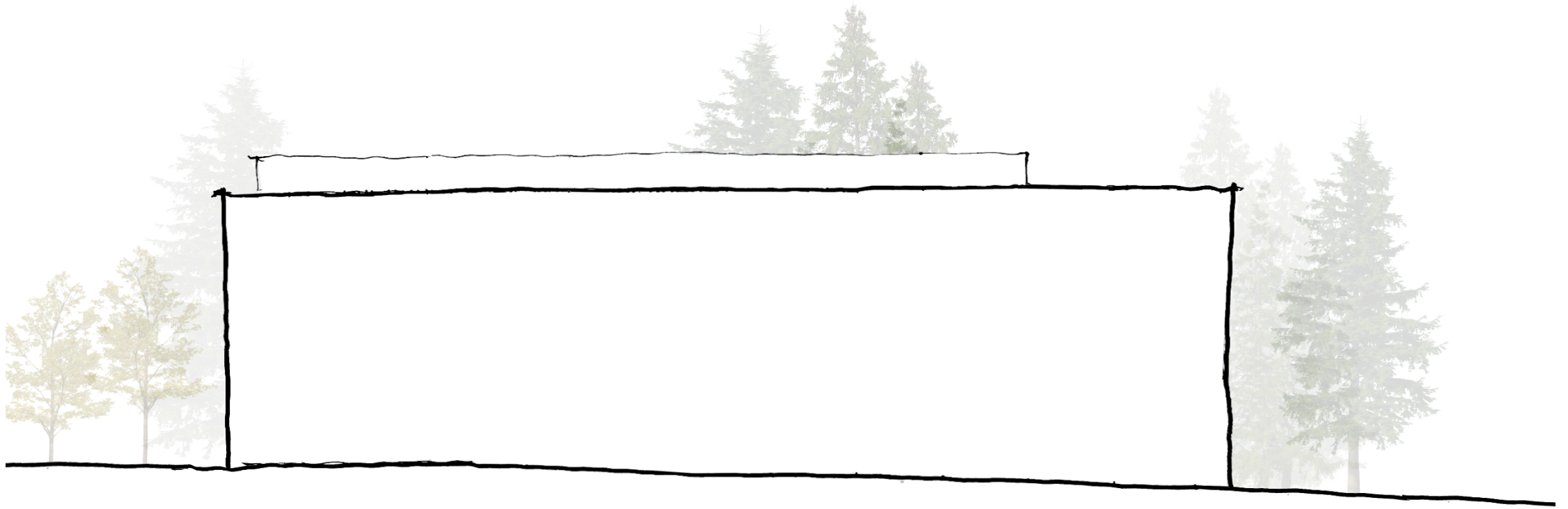
INFLUENCES & DRIVERS

- expression of connectivity
- variability in scale (macro & micro)
- universal daylight & views
- flexibility in program
- energy performance
- constructability + affordability

CONNECTIVITY ON DISPLAY

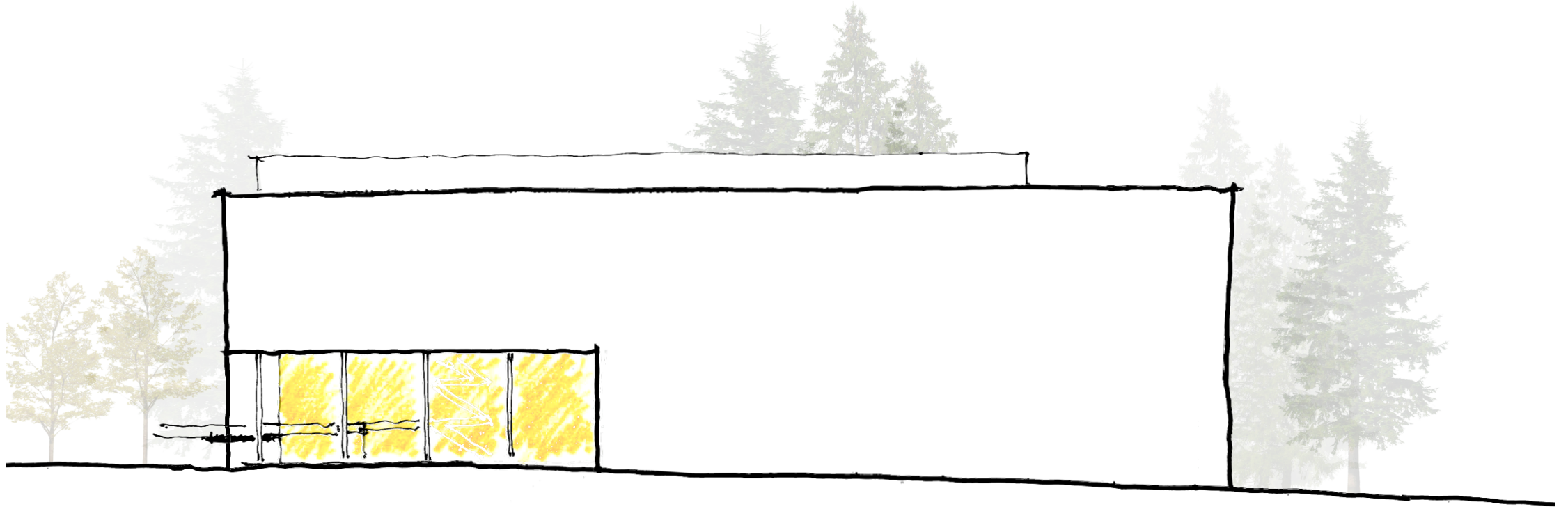


CONNECTIVITY ON DISPLAY



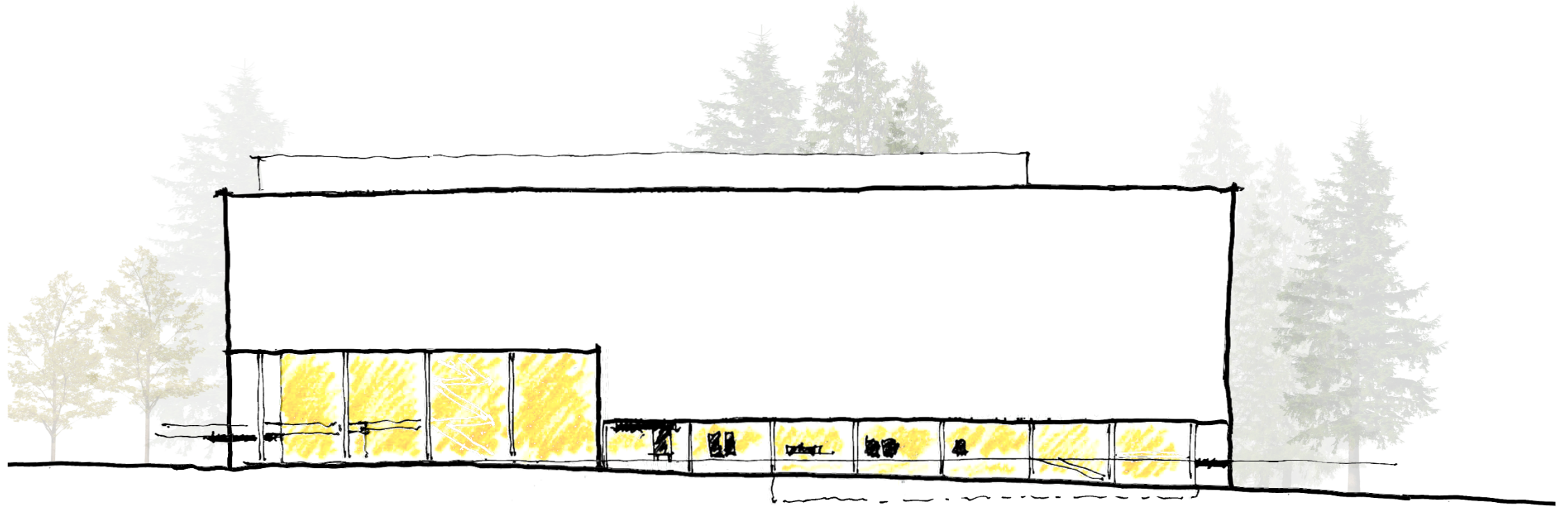
WEST ELEVATION

MACRO – CAMPUS CONNECTIVITY



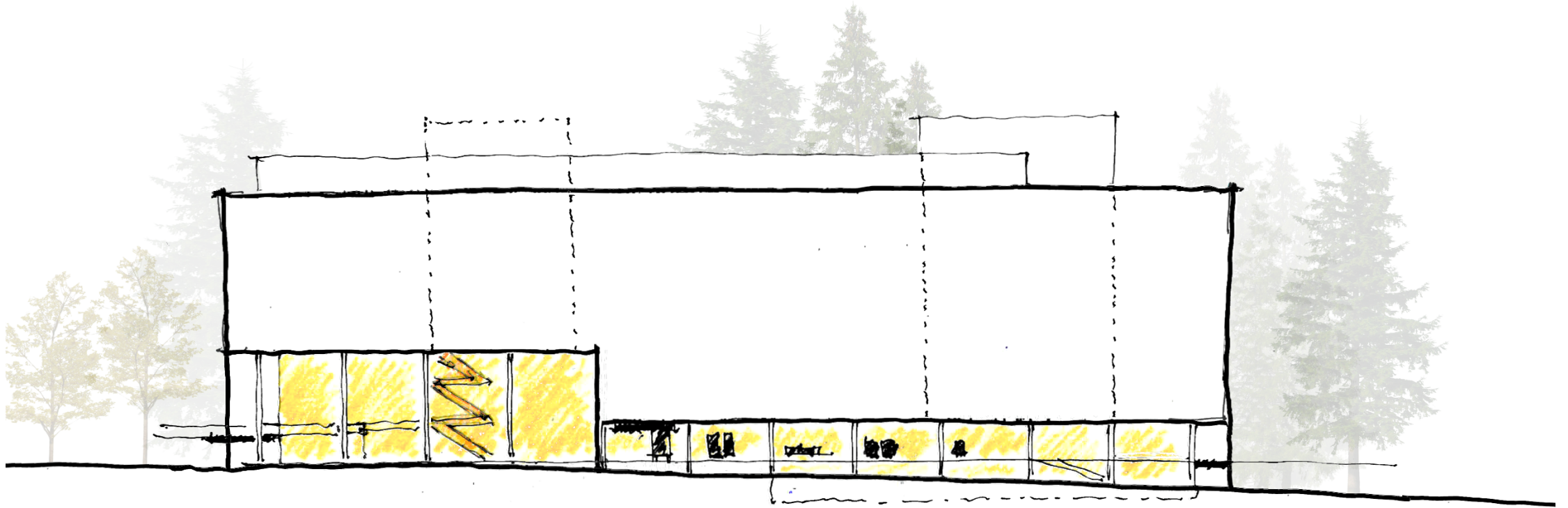
WEST ELEVATION

MACRO – STREETSCAPE CONNECTIVITY



WEST ELEVATION

MACRO - VERTICAL CONNECTIVITY



WEST ELEVATION

MACRO – PROGRAM CONNECTIVITY



WEST ELEVATION

MICRO – ENVIRONMENTAL CONNECTIVITY



WEST ELEVATION

MICRO – ENVIRONMENTAL CONNECTIVITY



WEST ELEVATION

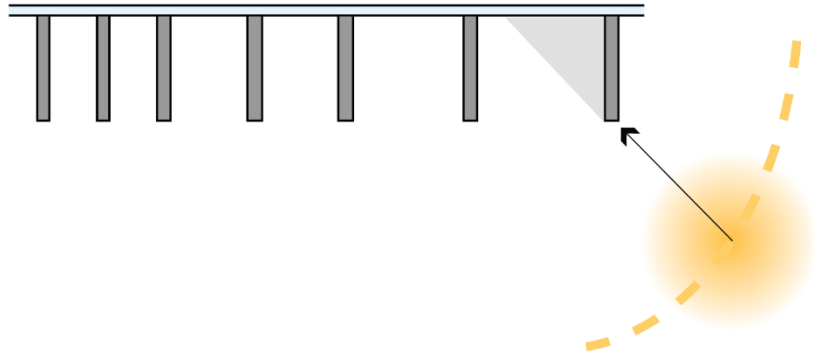


ELEMENT



ELEMENT

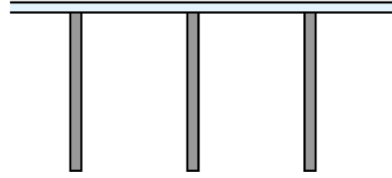
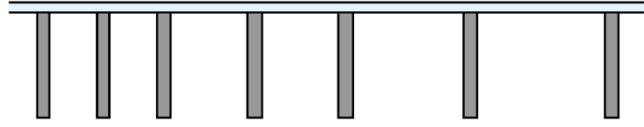
SPACING



ELEMENT

SPACING

DEPTH

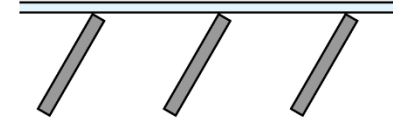
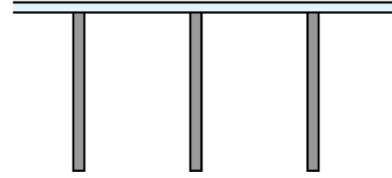
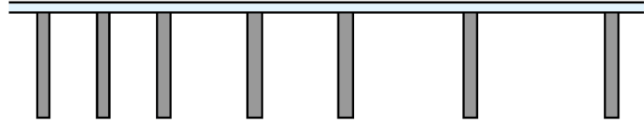


ELEMENT

SPACING

DEPTH

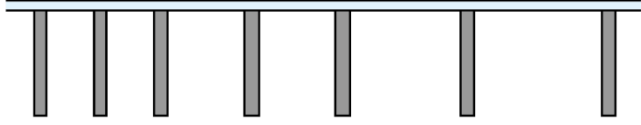
ANGLE



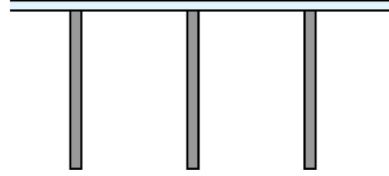
ELEMENT



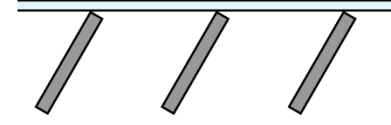
SPACING



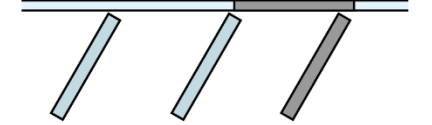
DEPTH



ANGLE



MATERIAL



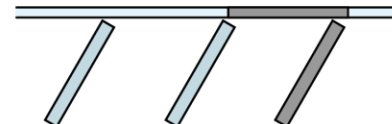
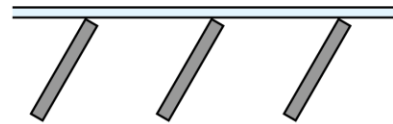
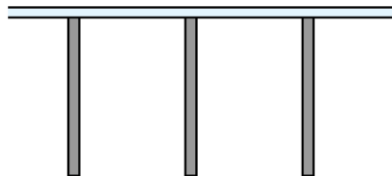
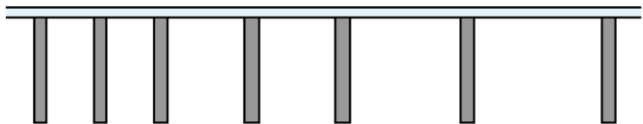
ELEMENT

SPACING

DEPTH

ANGLE

MATERIAL



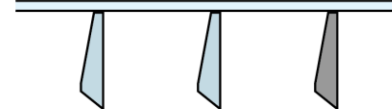
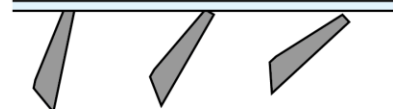
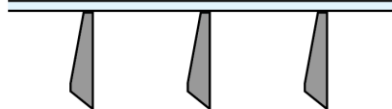
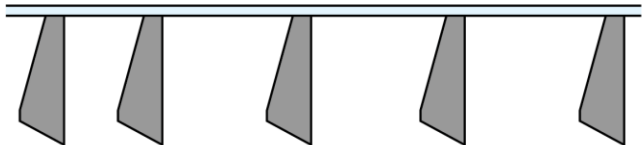
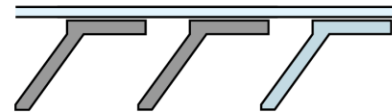
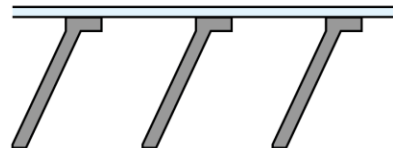
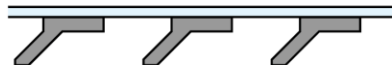
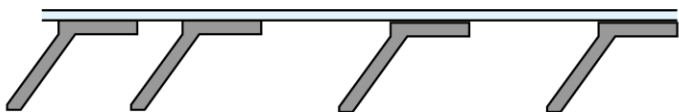
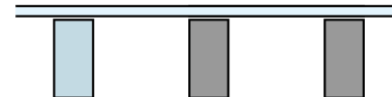
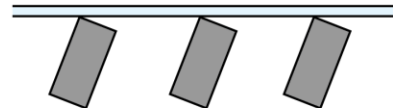
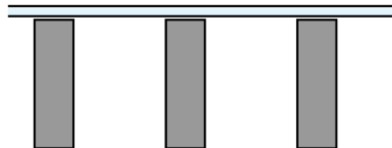
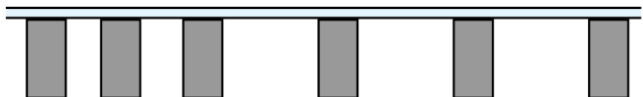
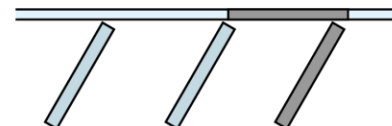
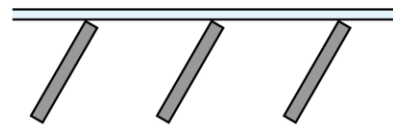
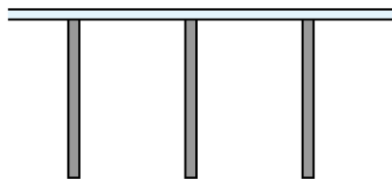
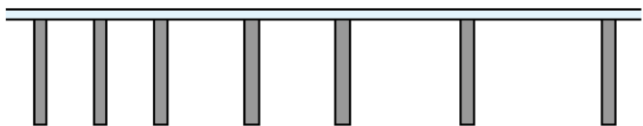
ELEMENT

SPACING

DEPTH

ANGLE

MATERIAL



SHADING STUDY METHODOLOGY

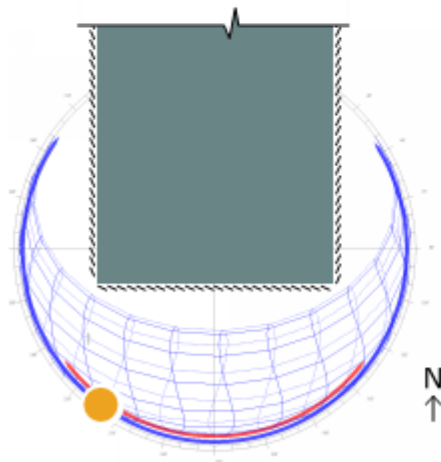
Summary

This initial study examines the optimal projection, angle and spacing of fixed external vertical shades and horizontal brise soleil to reduce peak cooling loads on the building. The west and south facades will experience the height of solar heat gains and therefore are the focus of this study.

External Vertical Shades

A simplified vertical shading solution might resemble the shading strategy in the plan view diagram below.

To understand the boundaries this shading strategy, two angles of projection and two projection-to-spacing ratios are explored.



Study 1 - 1:1 External Vertical Shades (90°)

Perpendicular (90°) vertical shades spaced 1 ft apart projecting 1 ft from the building. (A 1:1 projection-to-spacing ratio.)



Study 2 - 1:1 External Vertical Shades (45°)

1 ft deep vertical shades with 45° angle from the facade with a 1:1 projection-to-spacing ratio.



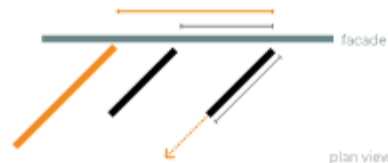
Study 3 - 1:2 External Vertical Shades (45°)

Vertical shades with a 45° angle from the facade, but a 1:2 projection-to-spacing ratio. (External vertical shades project 1 ft from the building and spaced 2 ft apart.)



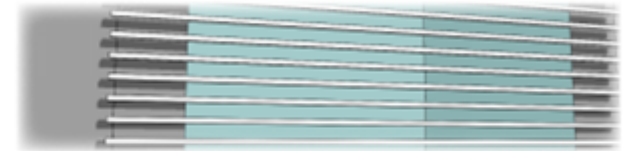
Projection-to-Spacing Ratio

A 1:1 ratio in this study is representative by a 12 inch projection from the facade and spaced 12 inches apart. The same result on the building's peak loads are expected as long as this ratio is maintained. For example, vertical shades with a 14 inch projection spaced 14 inches apart with a 45° angle to the facade expect the same result as Study 2.



Brise Soleil

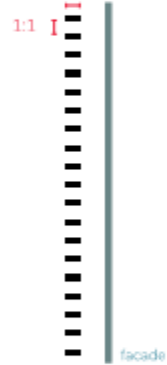
Study 4 and 5 analyze the optimal spacing for horizontal brise soleils. Each brise soleil is 1 in deep and the set of brise soleils are mounted 6" from the facade. Study 4 examines a 1:1 projection-to-spacing ratio and Study 5 looks at 1:3 ratio.



Study 4 - 1:3 Brise Soleil

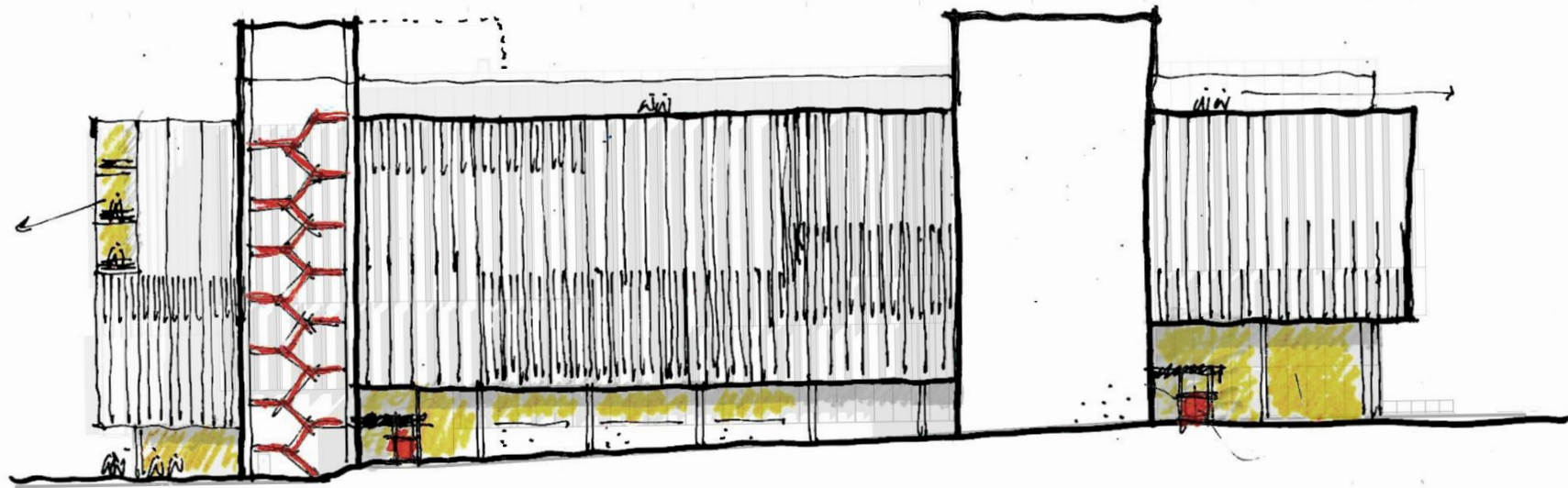


Study 5 - 1:3 Brise Soleil

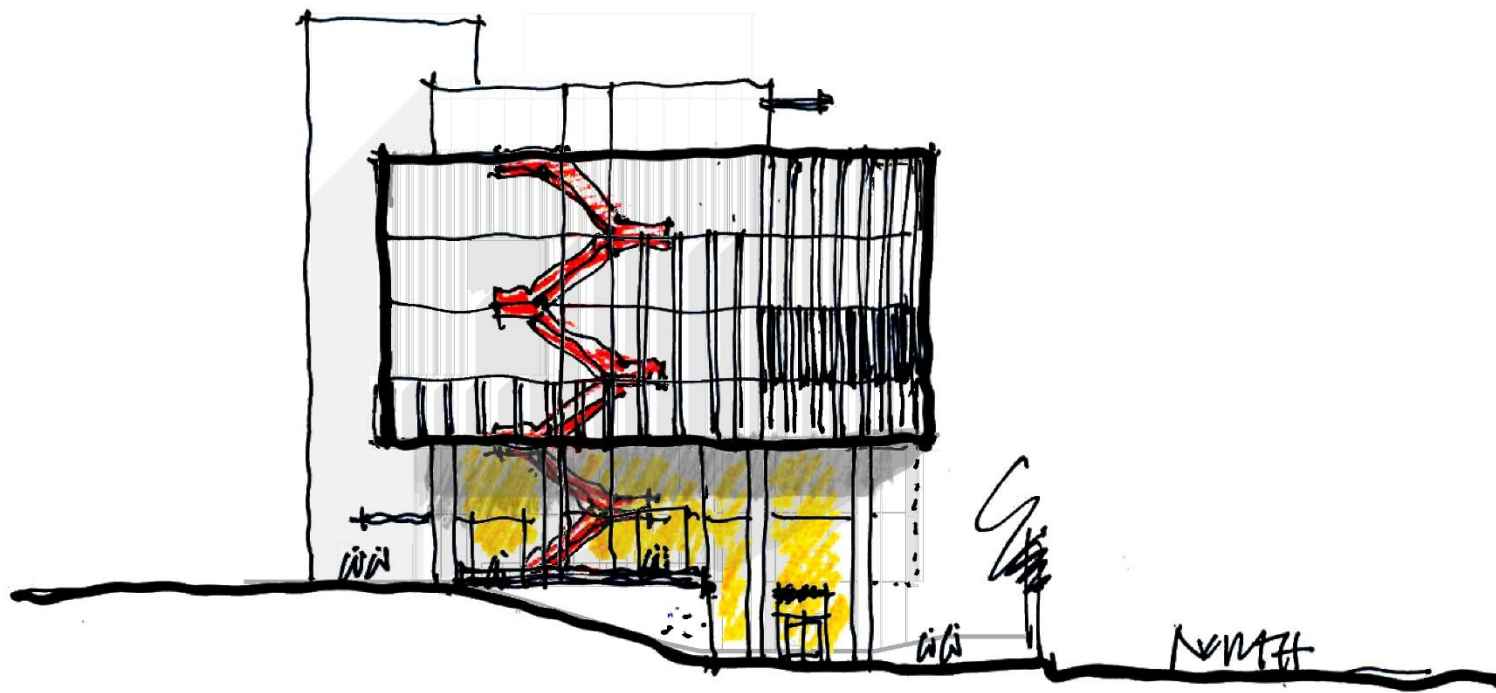


Study 6 - External Operable Shades

Study 6 examines external dynamic shades. These are assumed to be similar to the Warema external venetian blinds.



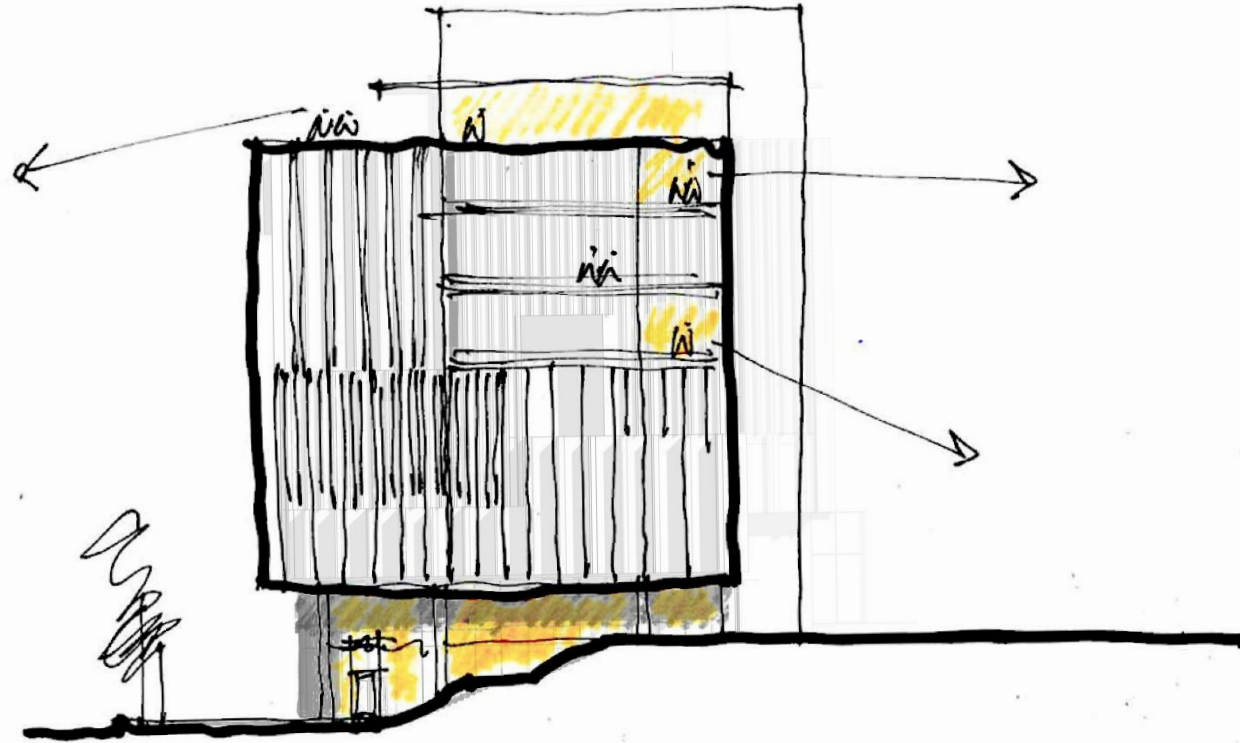
EAST ELEVATION



NORTH ELEVATION



NORTH ELEVATION



SOUTH ELEVATION



THE POPULATION HEALTH FACILITY