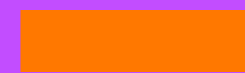


SASAKI

MDS
ARCHITECTS

The John R. Pierce School



SITE DESIGN UPDATE

MAY 19, 2022

AGENDA

SITE OVERVIEW

*Overall Character
Circulation
Program*

SITE AREA STUDIES

*Entry & Welcome
Green Access & Service
Play
Outdoor Amphitheater + Courtyard*

SITE SYSTEMS

*Planting
Materials
Drainage & Site Utilities*

NEXT STEPS



SITE OVERVIEW

- 27 vertical feet of grade change across the site.
- A blend of landscapes that:
 - welcome students and the community to school,
 - provide both play and curricular space,
 - connect civic amenities and,
 - integrate service functions for the school and library.



PROPOSED VEHICULAR ARRIVAL

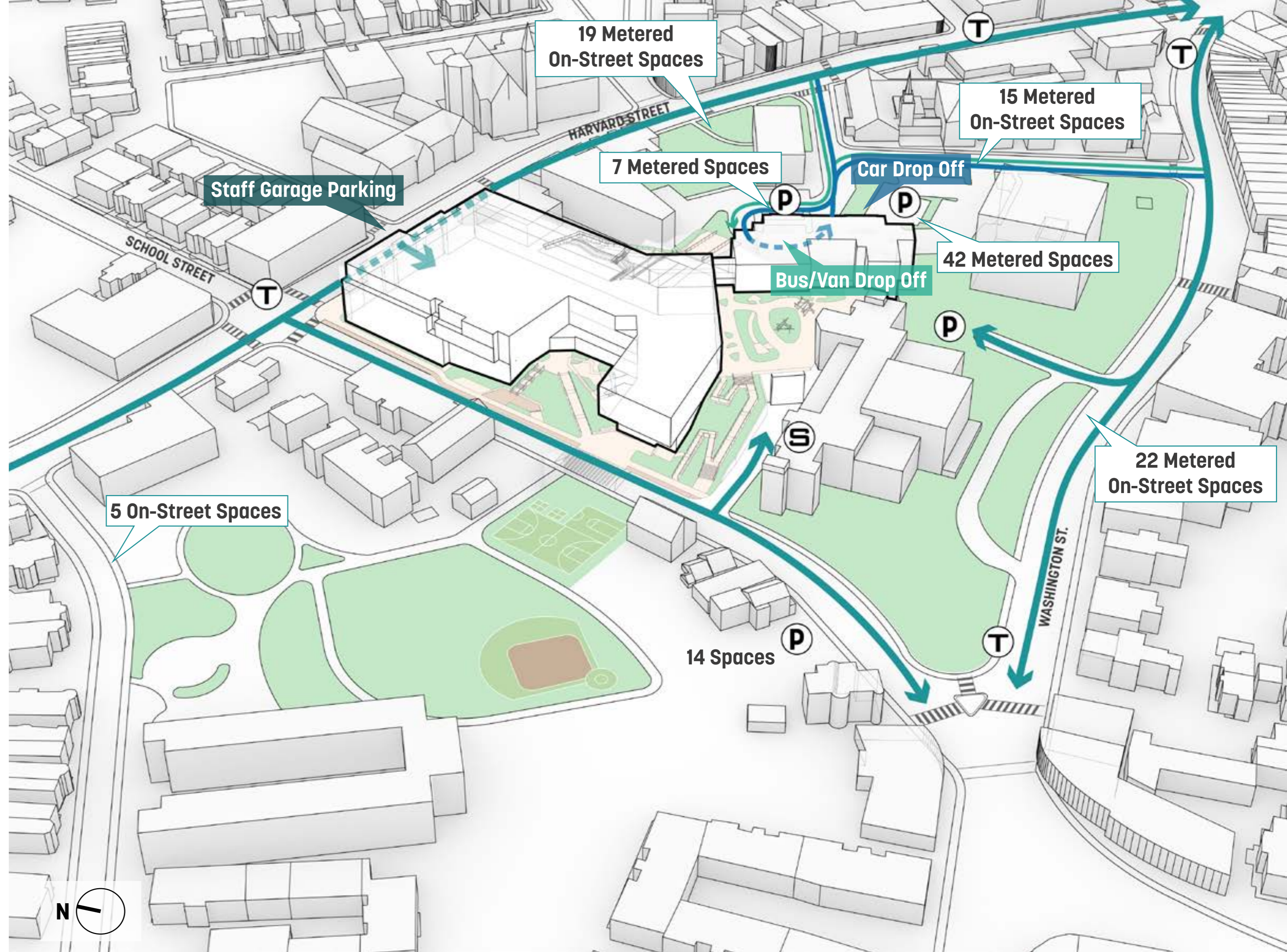
LEGEND

-  CAR CIRCULATION
-  BUS/VAN CIRCULATION

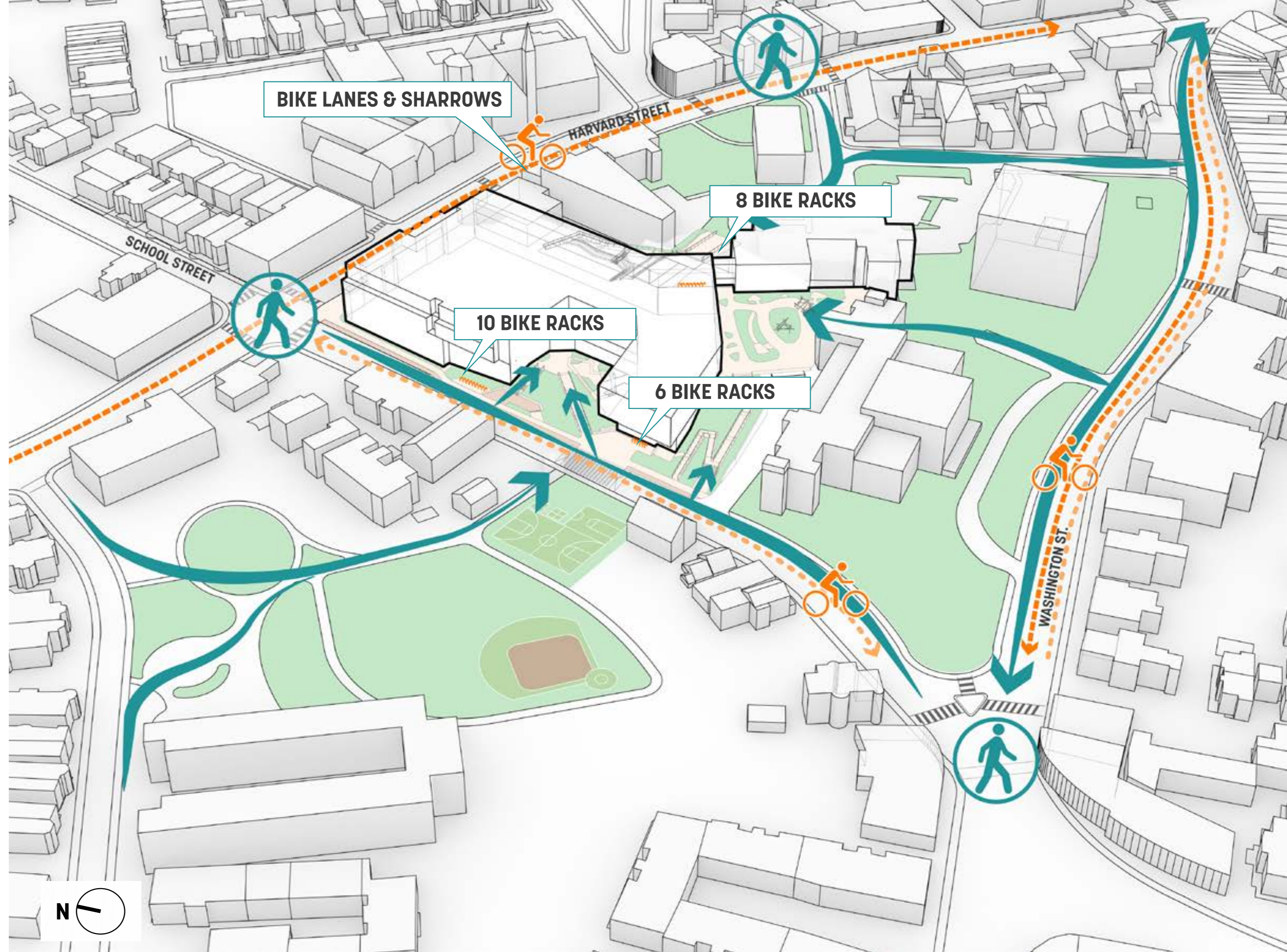
 SERVICE

 PARKING

 BUS STOP



PROPOSED PEDESTRIAN + BICYCLIST ARRIVAL



LEGEND

 PEDESTRIAN ARRIVAL

 BICYCLE PATHS

 BIKE / SCOOTER RACKS



SITE AREAS



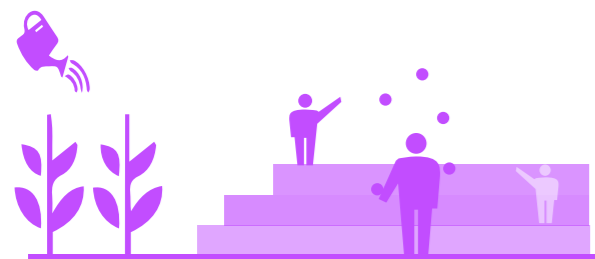
ARRIVAL & CIRCULATION



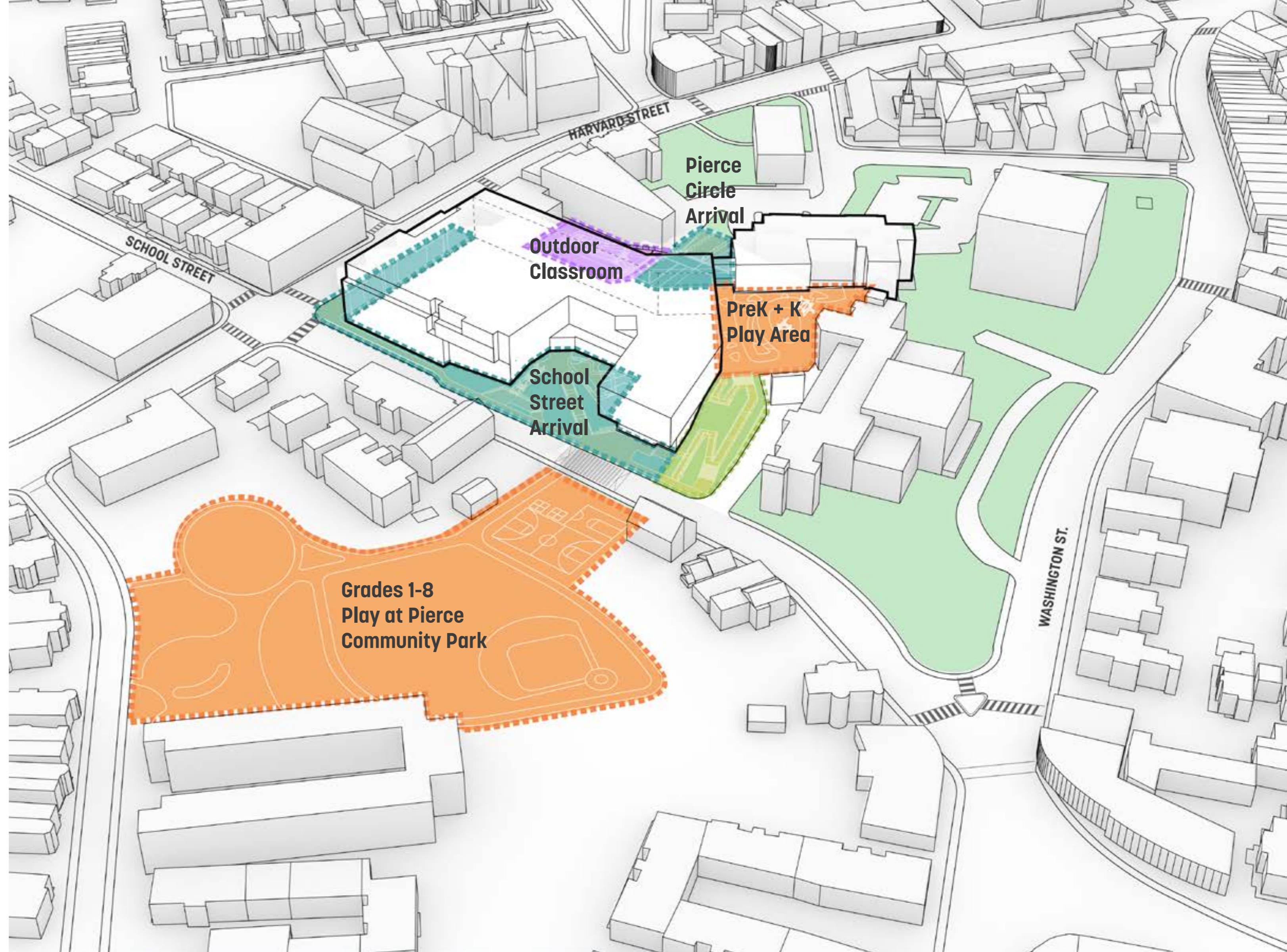
GREEN ACCESS & SERVICE



OUTDOOR PLAY & LEARNING



OUTDOOR AMPHITHEATER
& GARDENS



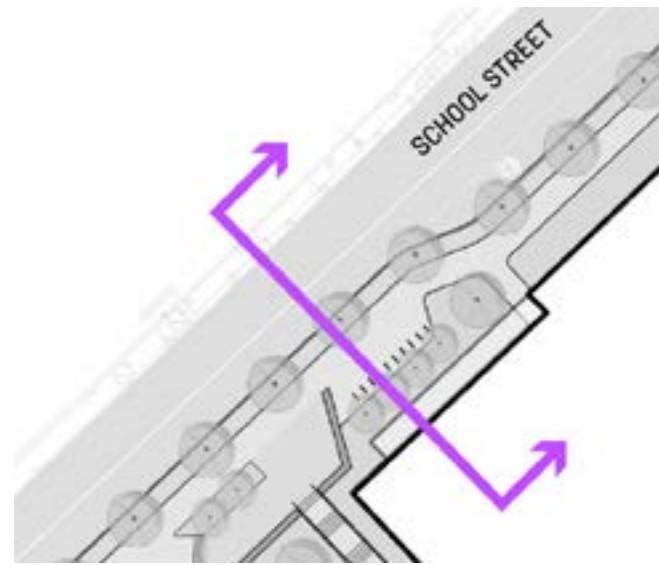
ENTRY & ARRIVAL

- Safe, welcoming and distinctive gateways to school
- Intuitive wayfinding
- Universal access
- Comfortable social spaces with amenities



TYPICAL SECTION OF SCHOOL STREET

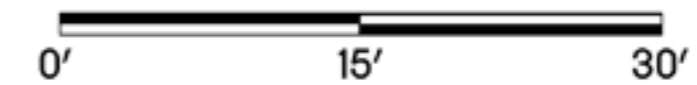
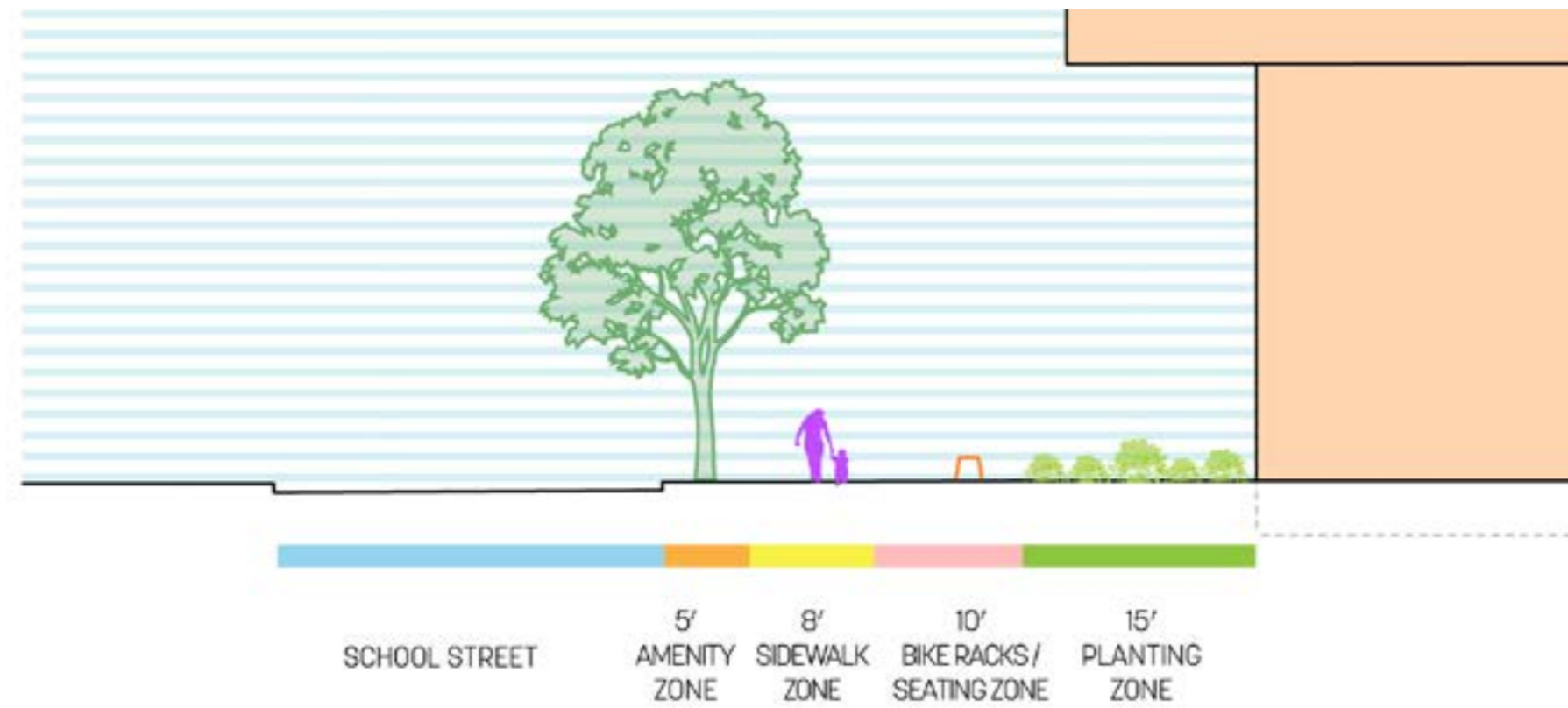
KEY PLAN



EXISTING SECTION

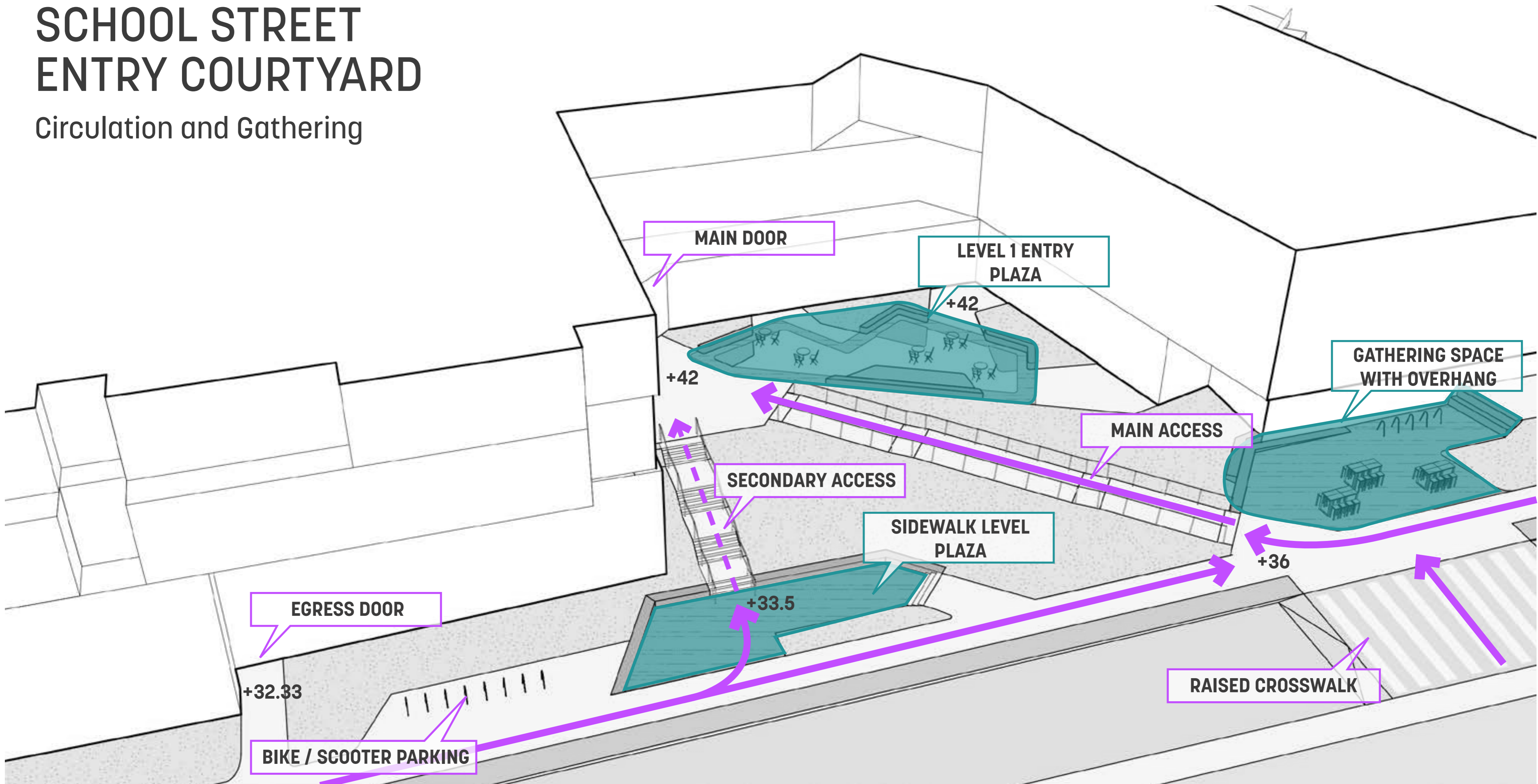


PROPOSED SECTION

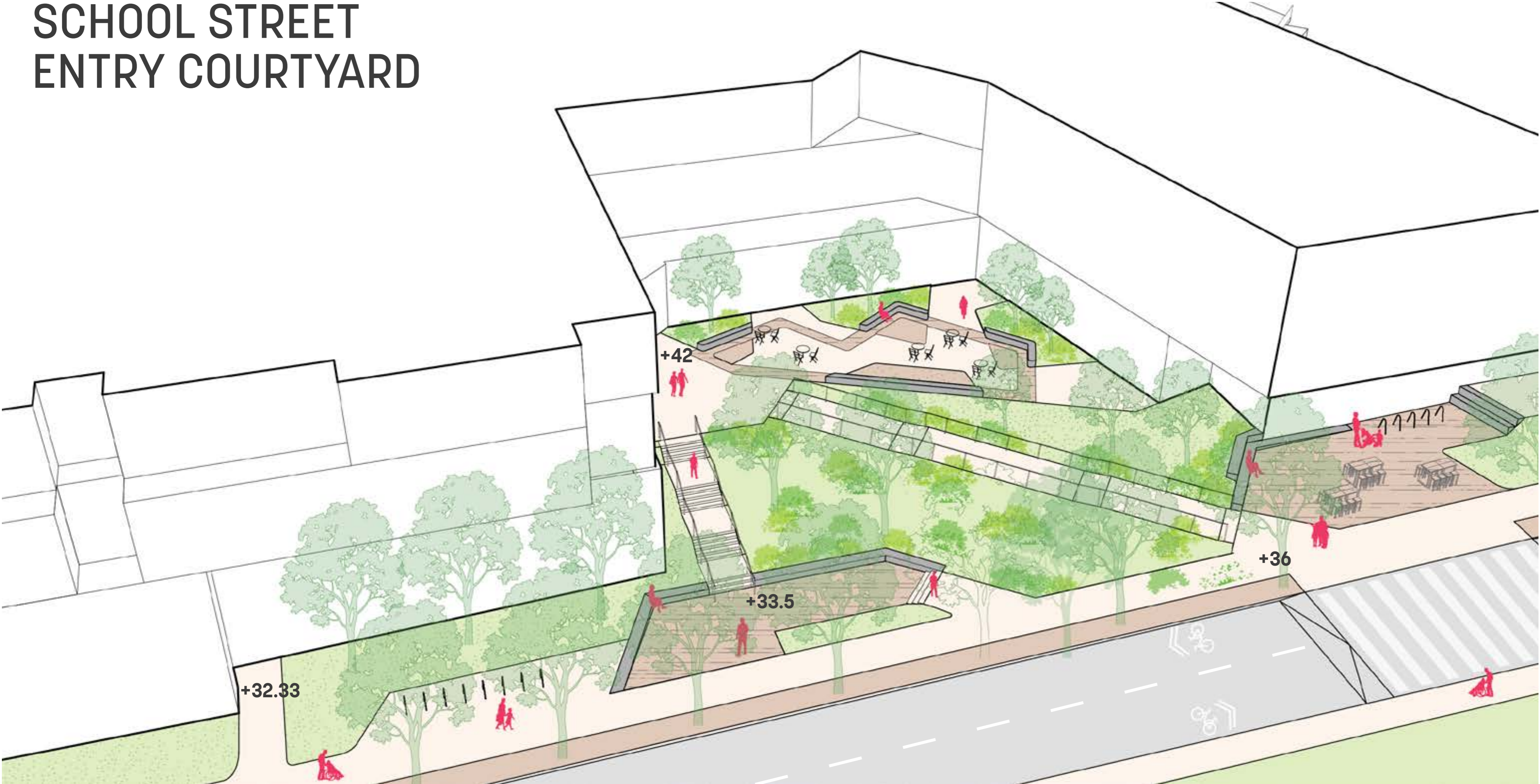


SCHOOL STREET ENTRY COURTYARD

Circulation and Gathering



SCHOOL STREET ENTRY COURTYARD



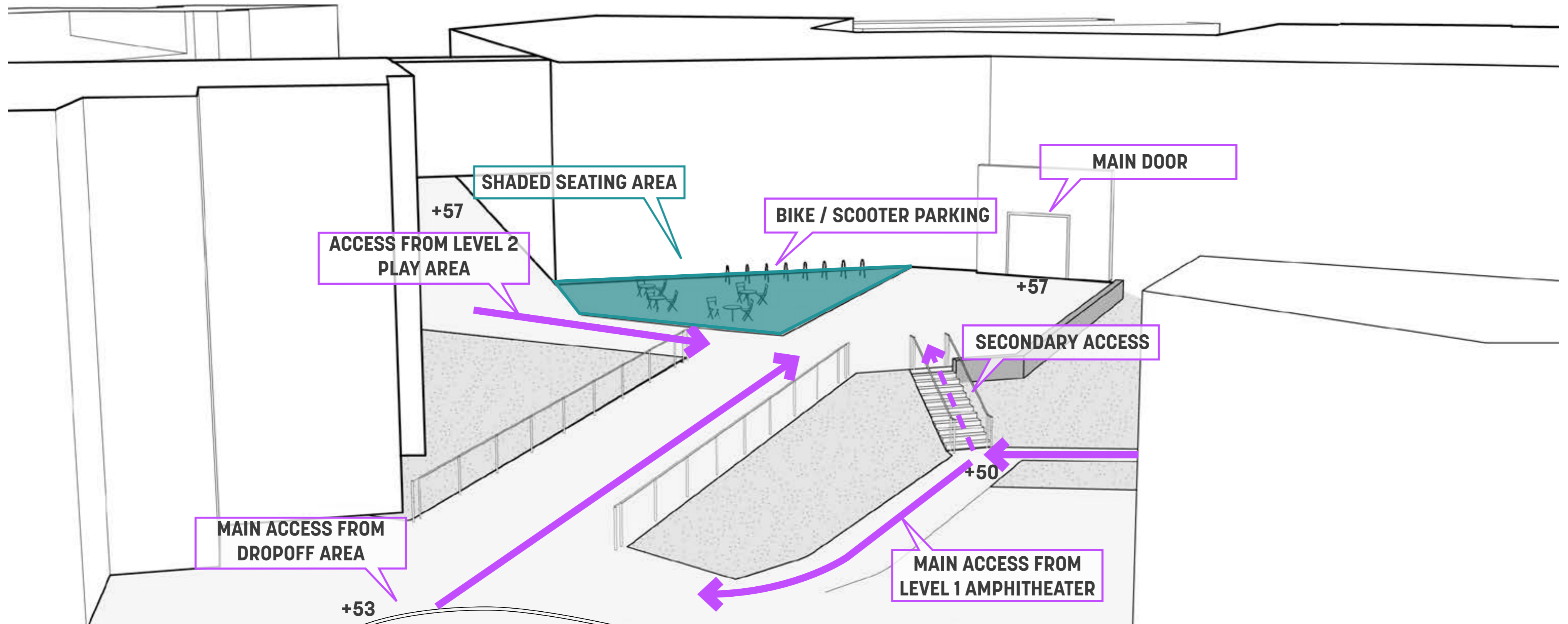
SCHOOL STREET ENTRY COURTYARD

Character

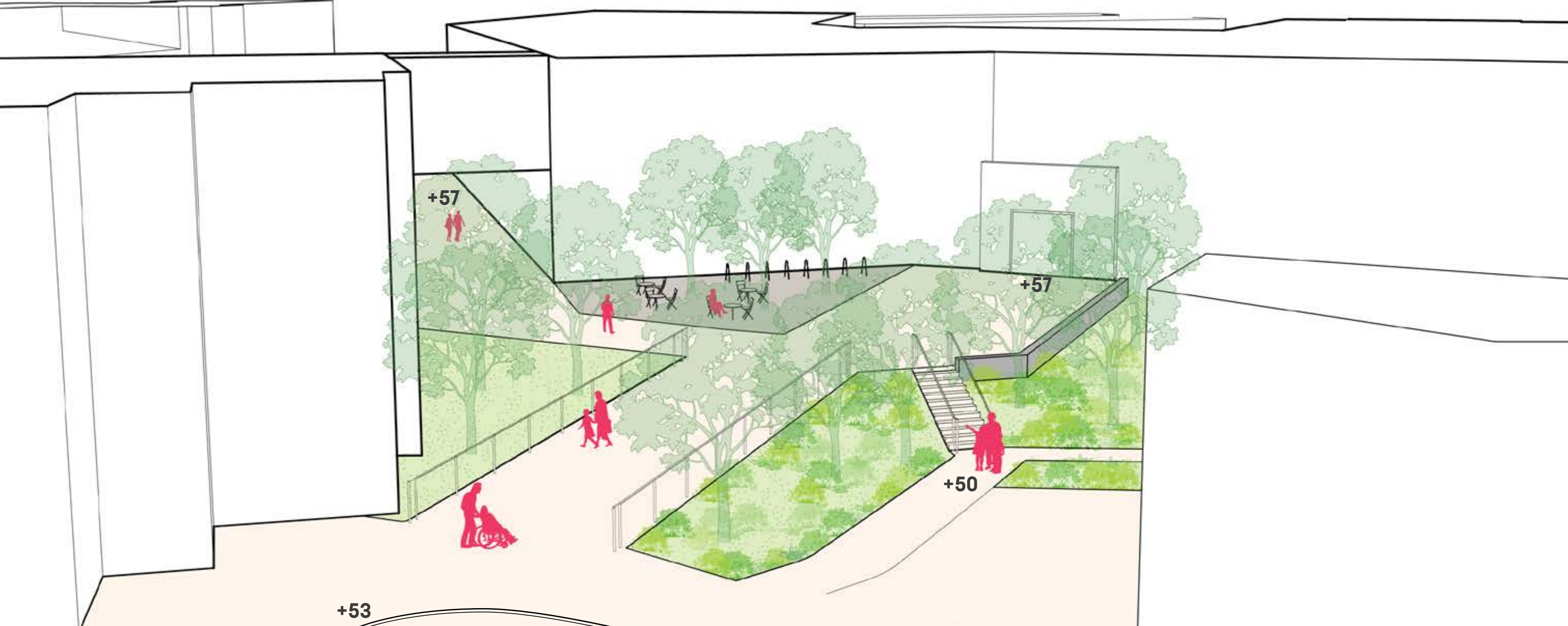


PIERCE DROPOFF ENTRY

Circulation and Gathering



PIERCE DROPOFF ENTRY



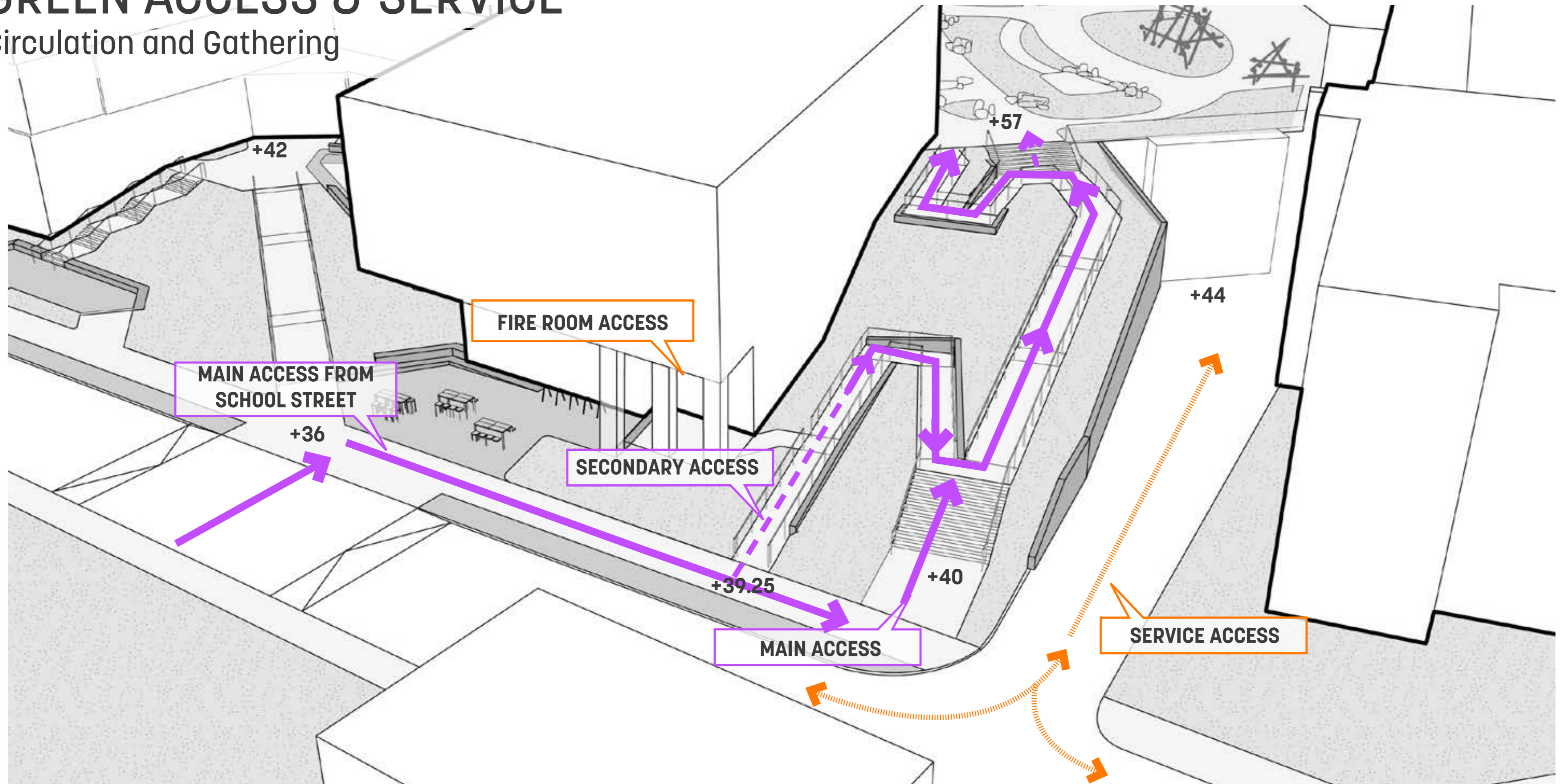
GREEN ACCESS & SERVICE

- Universally accessible mid-block connection
- Vegetated spine through campus
- Functional but screened service area

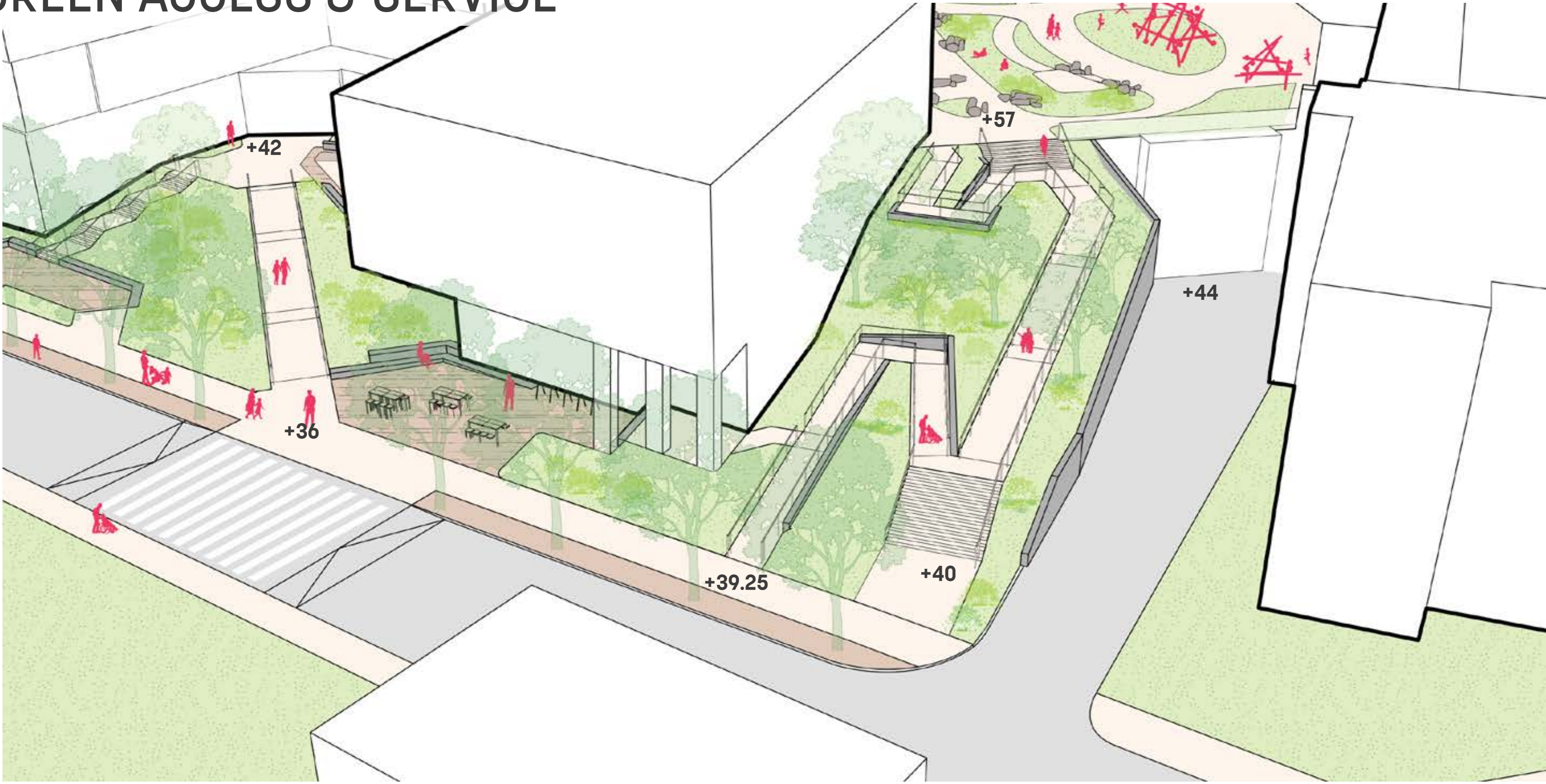


GREEN ACCESS & SERVICE

Circulation and Gathering

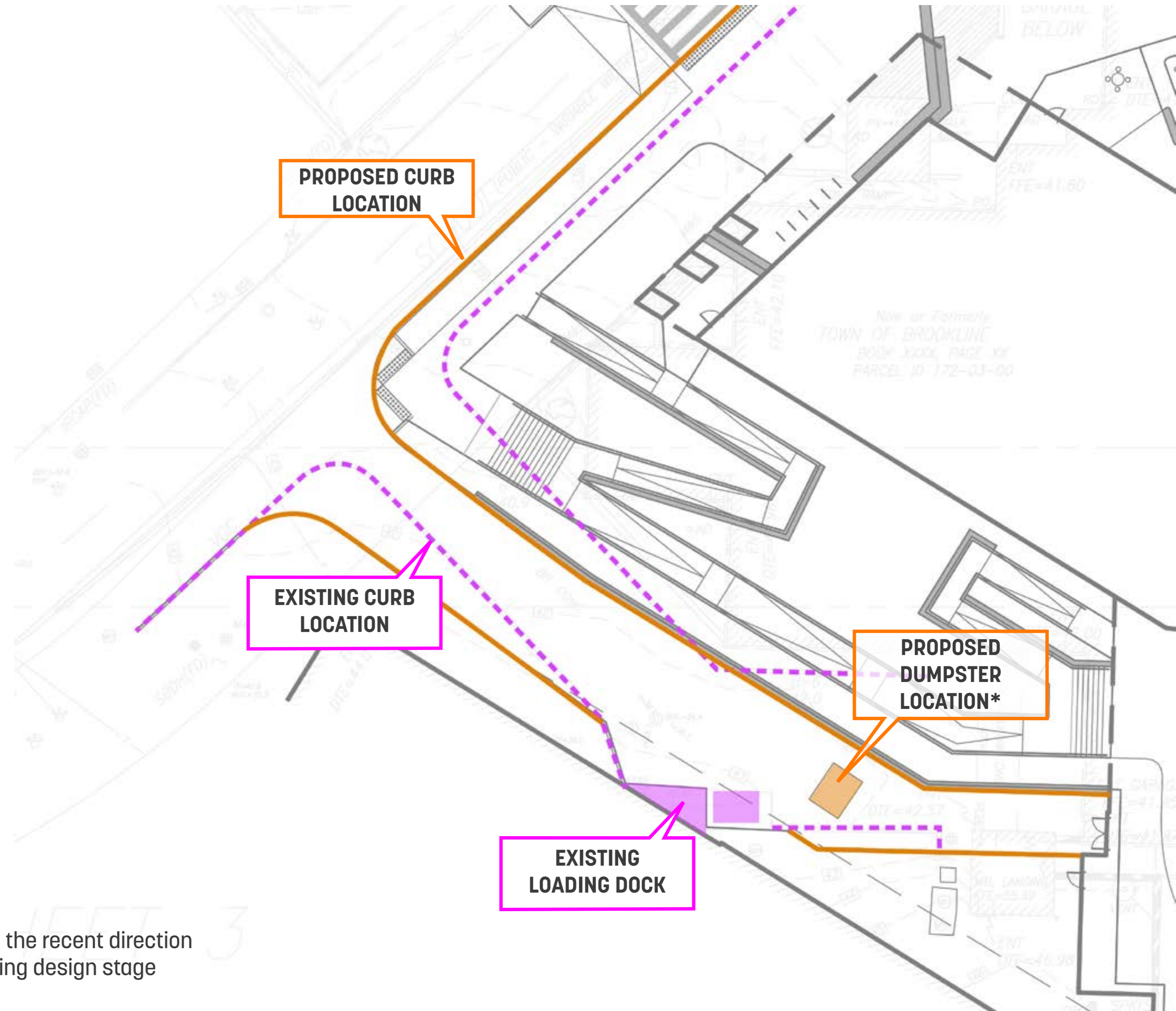


GREEN ACCESS & SERVICE



SERVICE AREA

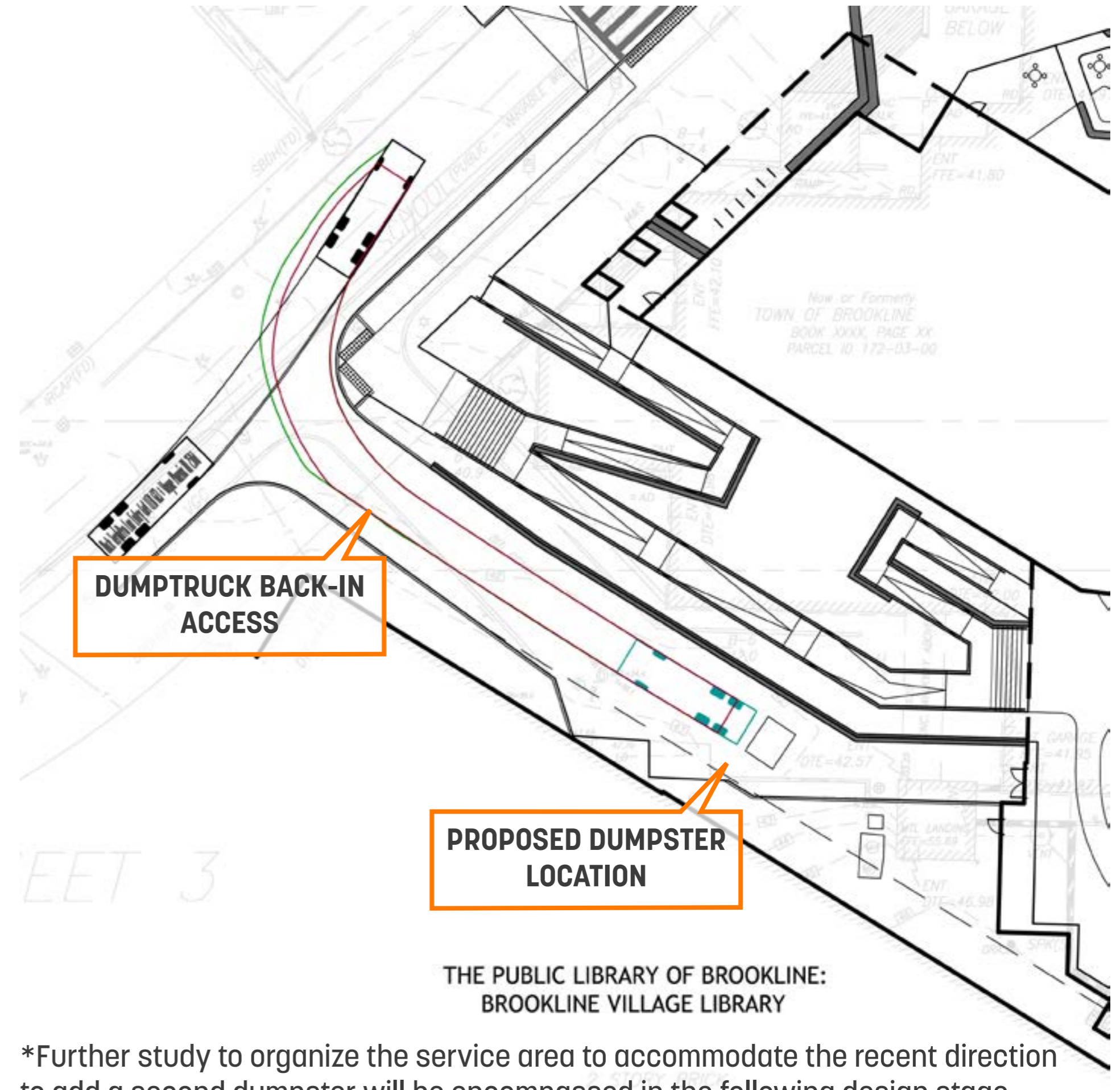
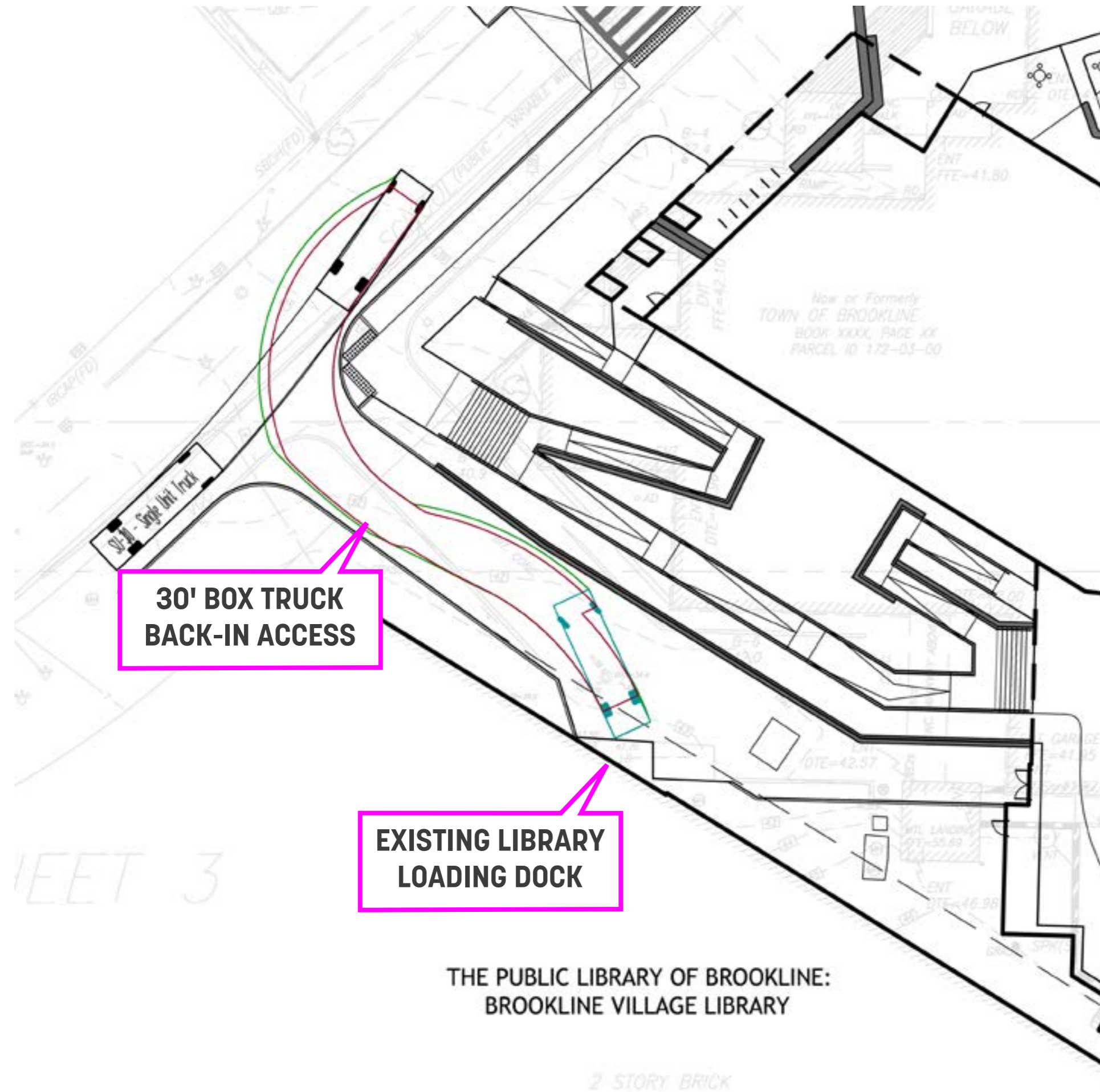
Proposed Alignment



*Further study to organize the service area to accommodate the recent direction to add a second dumpster will be encompassed in the following design stage

SERVICE AREA

Proposed Service Access



*Further study to organize the service area to accommodate the recent direction to add a second dumpster will be encompassed in the following design stage

GREEN ACCESS & SERVICE

Character

+ SHADE

+ LIGHTING

+ SIMPLE
HANDRAILS

+ LUSH NATIVE
PLANTINGS

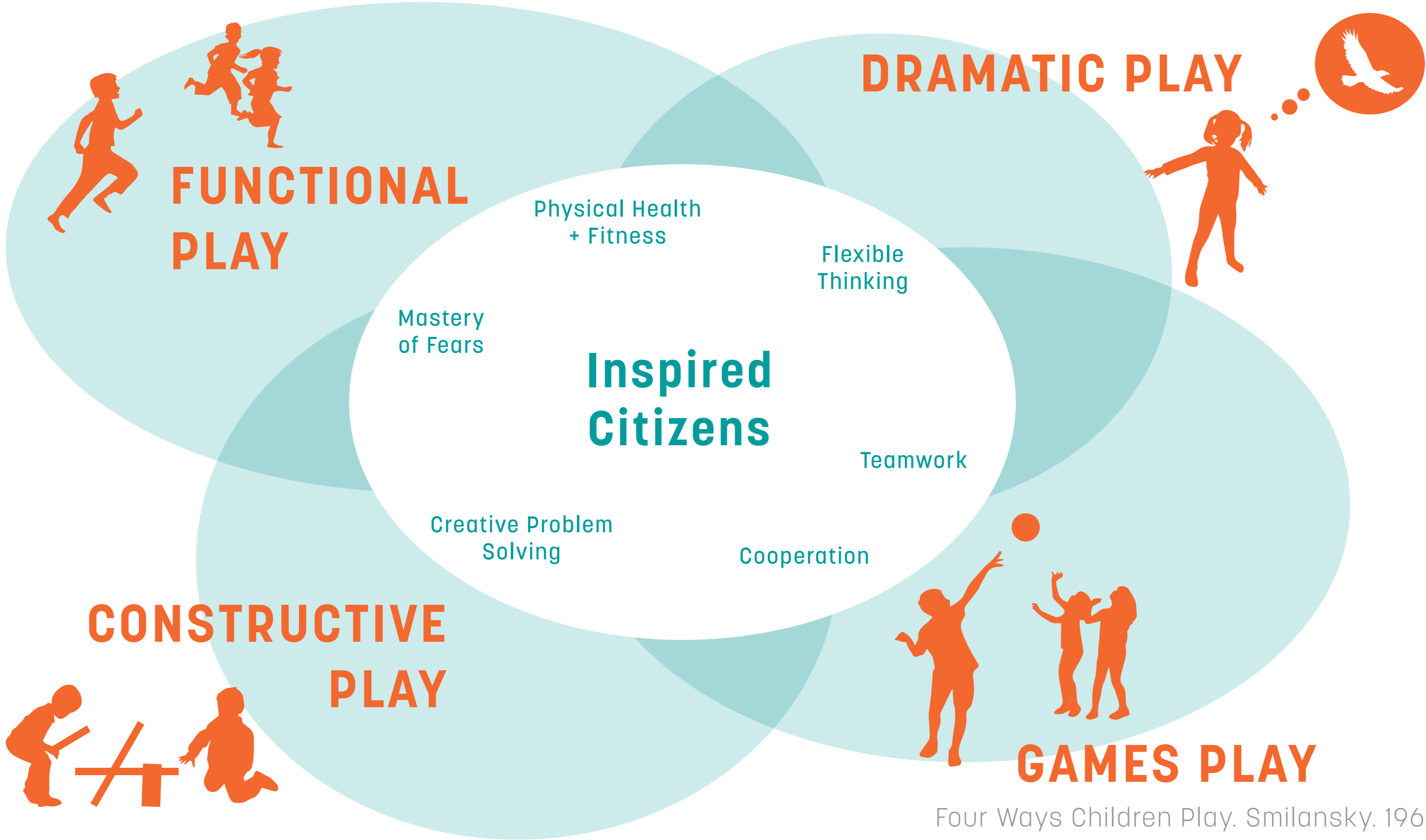


OUTDOOR PLAY FOR PRE-K and K

- A diversity of engaging physical elements for a range of abilities
- Sensory stimuli
- Flexible areas for games and activities
- Comfortable seating + social spaces
- Easily monitored by staff



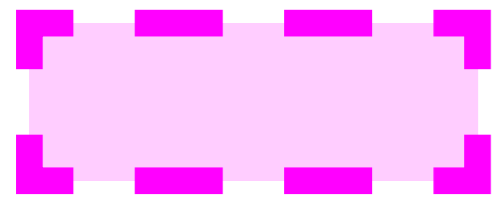
The Playscape at Pierce should hit developmental objectives



Four Ways Children Play. Smilansky. 1968.

STRUCTURAL DIAGRAM

Constraints



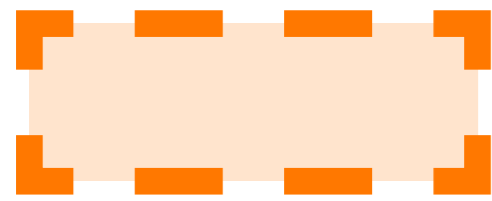
ON NEW STRUCTURE

- Potential to coordinate throughout the design process to allow for additional loading
- Could allow for more planting, trees, and landforms



ON EXISTING STRUCTURE

- Minimal loading can be added
- Likely cannot accommodate trees or large plantings



NOT ON STRUCTURE

- No structural restrictions on planting and trees



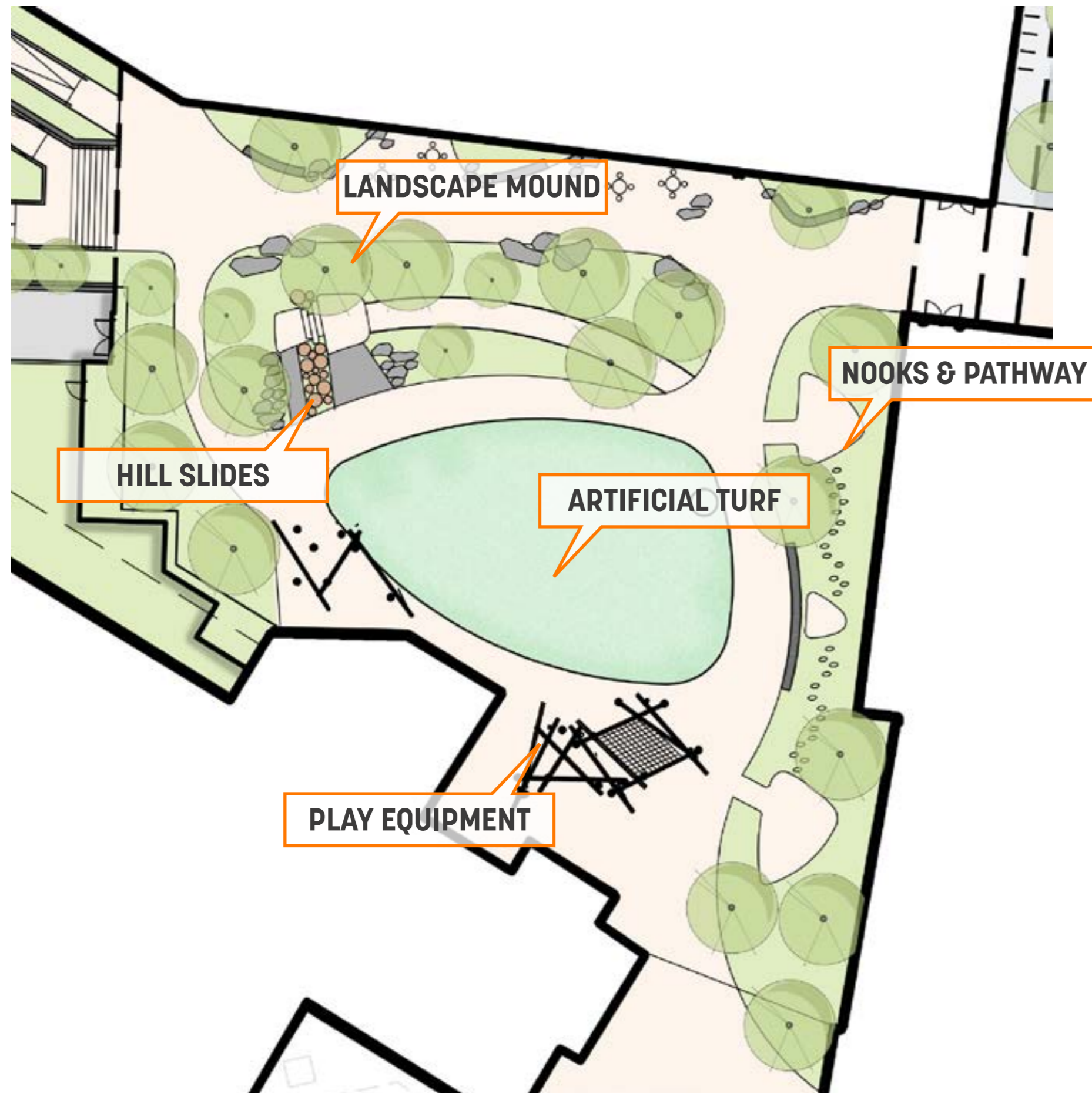
LEVEL 2 PLAY AREA OPTIONS



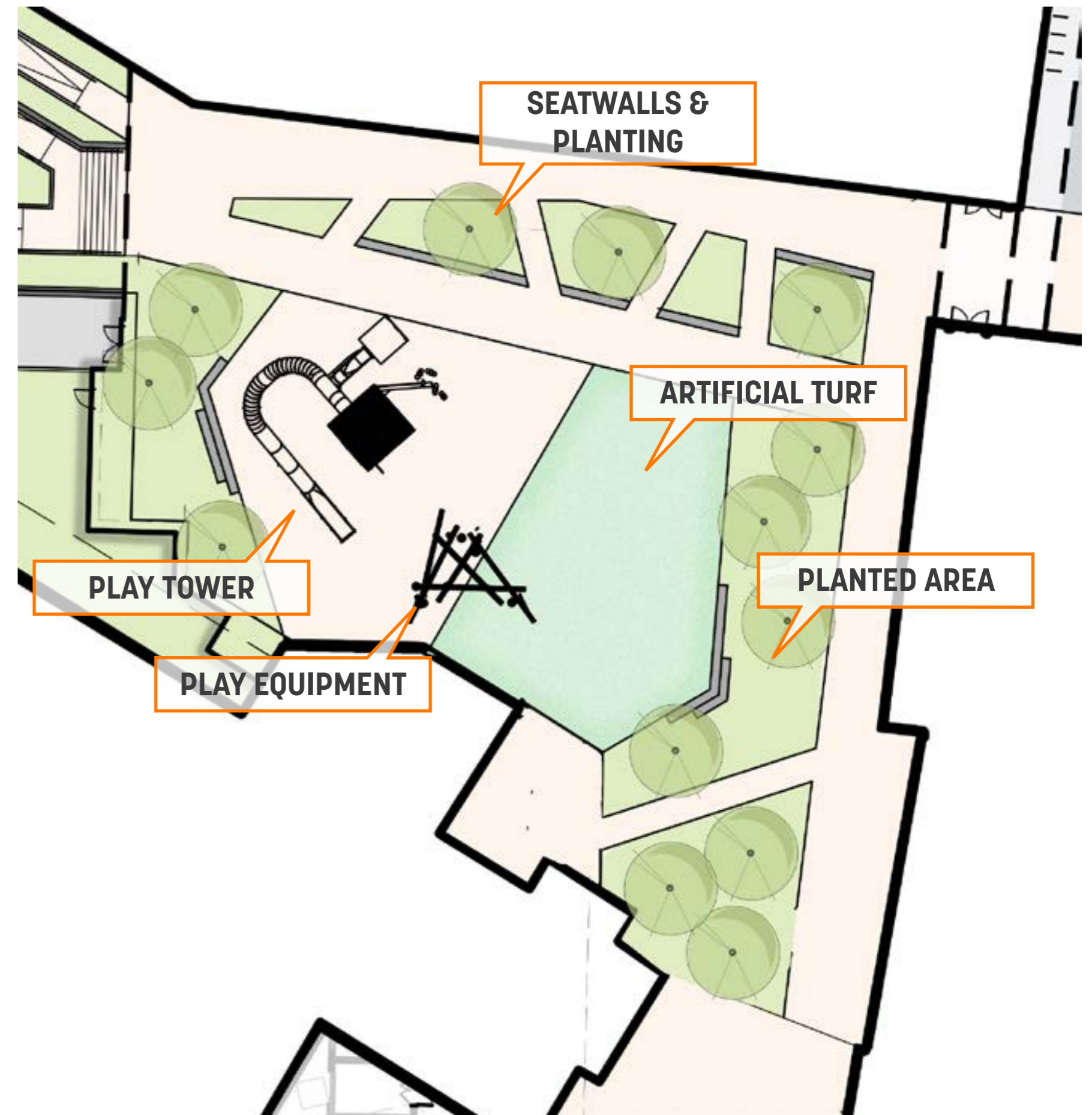
Landscape as Play Structure, with Emphasis on Natural Features

Sculptural Play Structure as Focal Feature, with Emphasis on Architecture

LEVEL 2 PLAY AREA OPTIONS



CONCEPTUAL LAYOUT 1

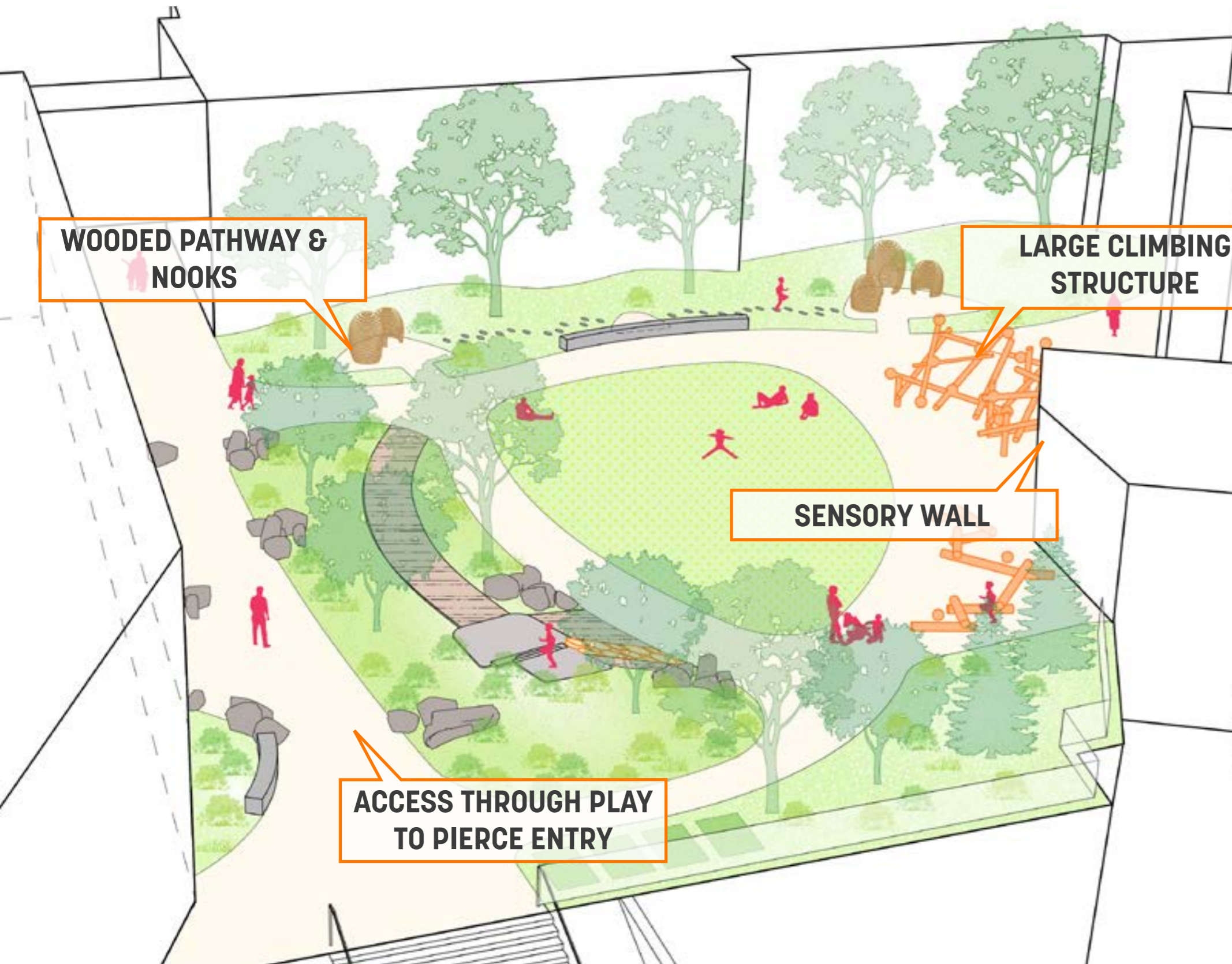


CONCEPTUAL LAYOUT 2

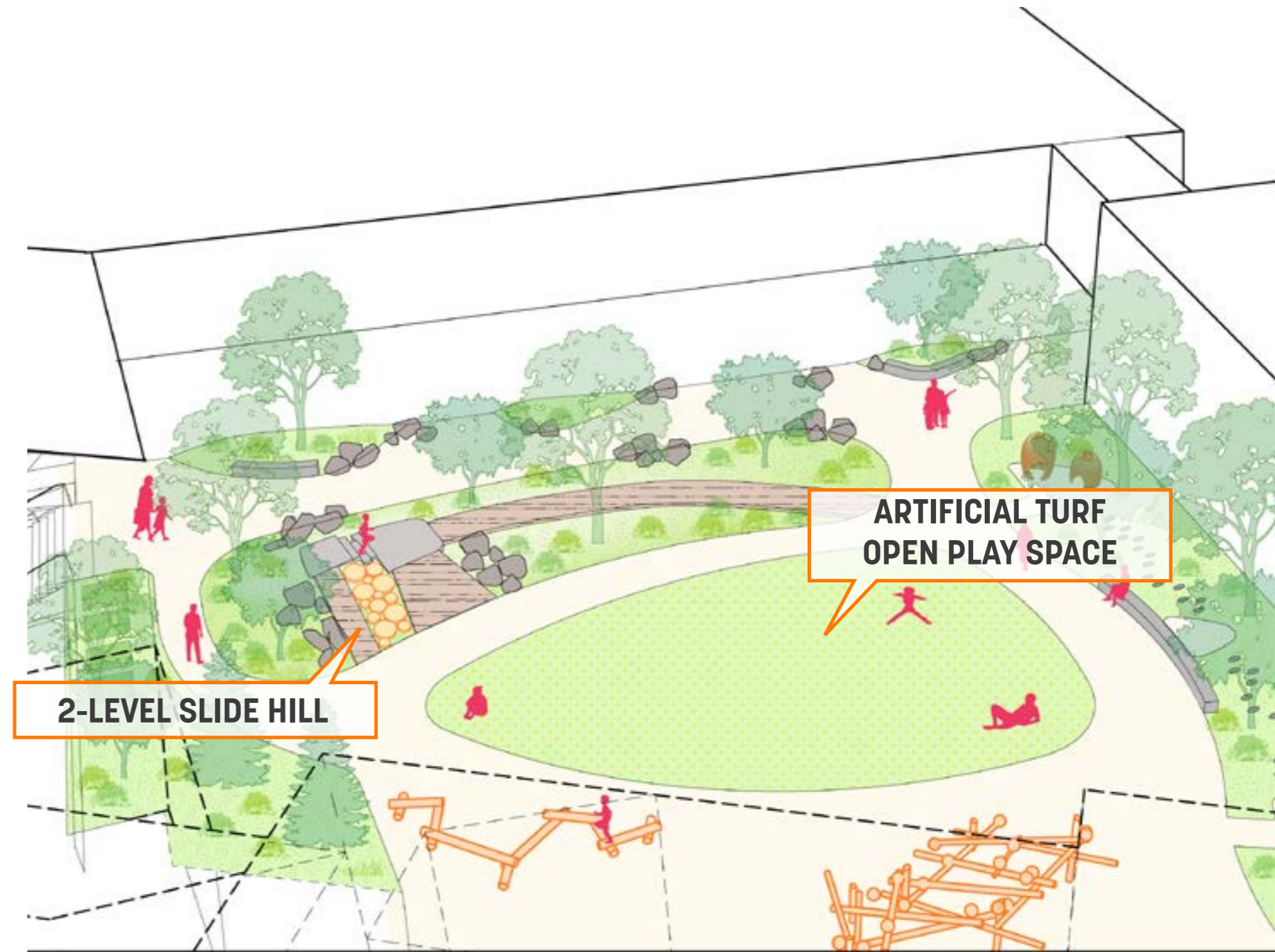
CONCEPTUAL PLAY LAYOUT



CONCEPTUAL PLAY LAYOUT



VIEW 1



VIEW 2

K & PRE-K PLAY

Character Imagery | Smale Riverfront Park | Cincinnati, OH



K & PRE-K PLAY

Character Imagery | Log & Rope Climbing Structure



K & PRE-K PLAY

Character Imagery | Imaginative Play + Sensory Nooks



K & PRE-K PLAY

Character Imagery | Grass Area Programming



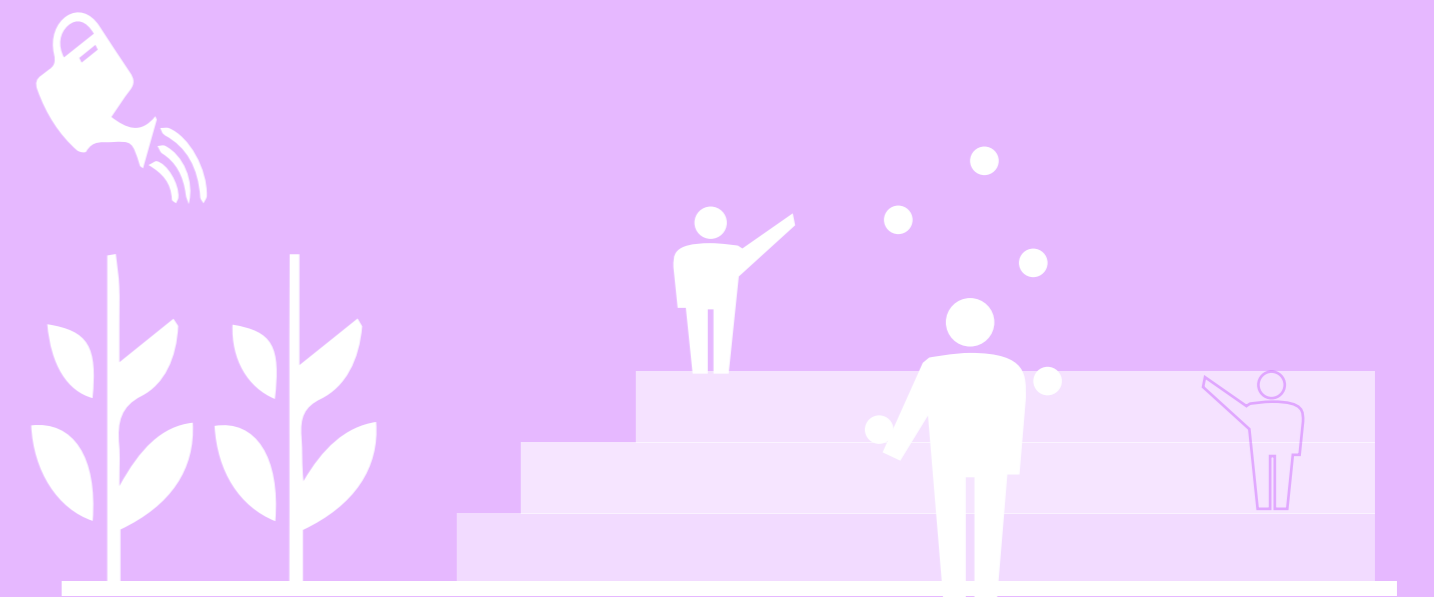
K & PRE-K PLAY

Character Imagery | Sensory Play Wall



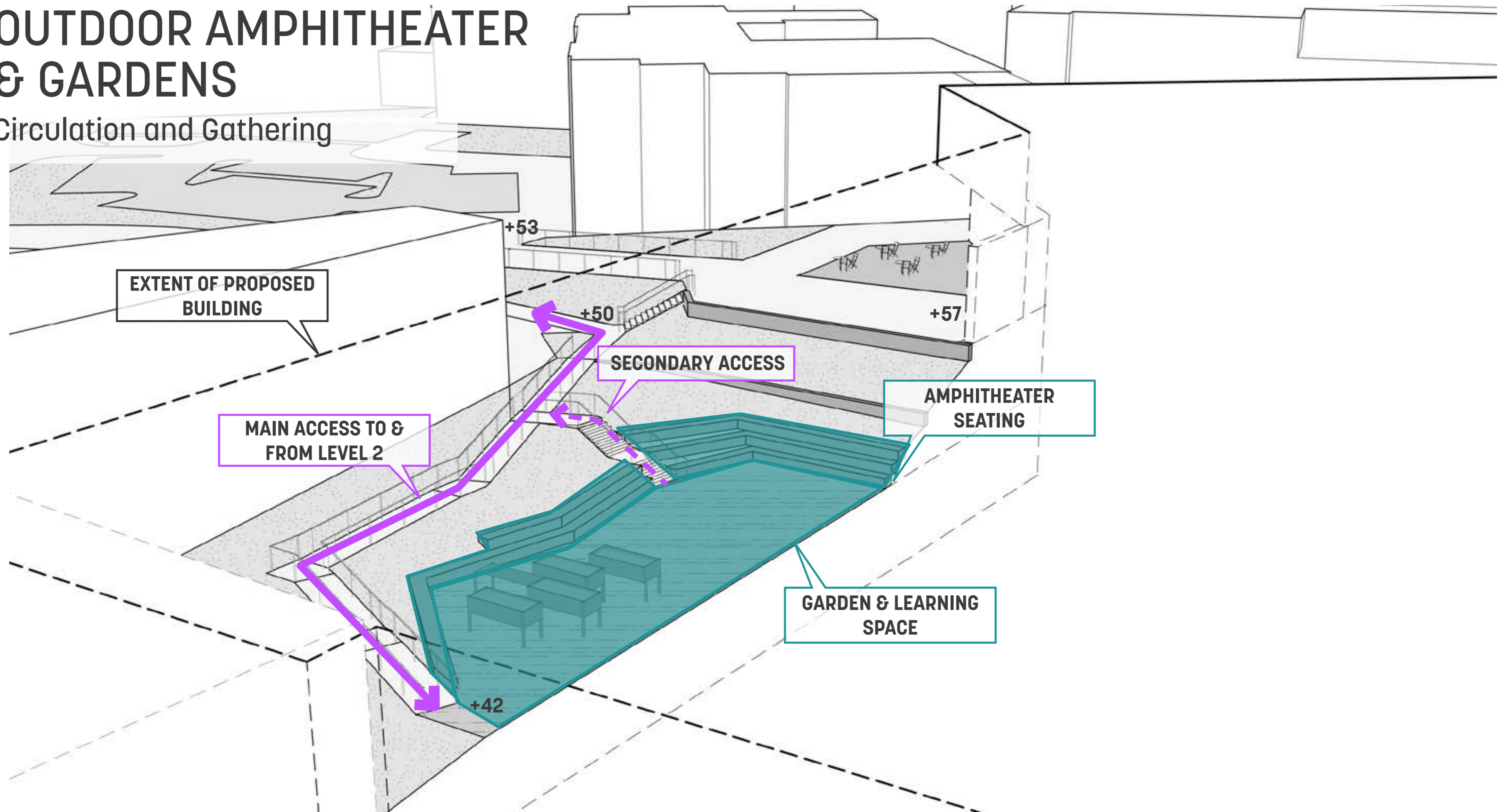
OUTDOOR AMPHITHEATER & GARDENS

- An outdoor ampitheater to accommodate grade levels (80-100 kids)
- School garden program
- Universal access

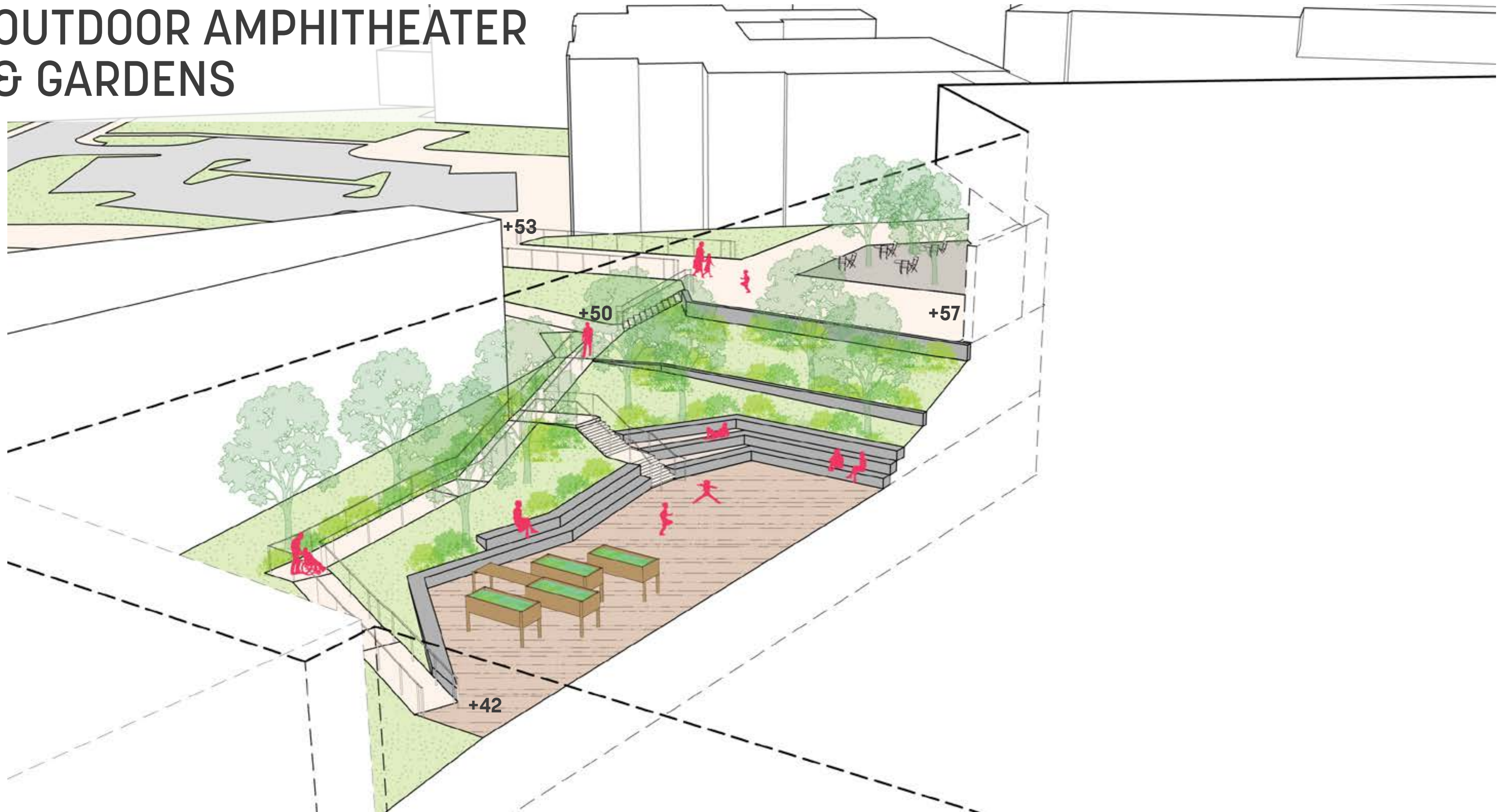


OUTDOOR AMPHITHEATER & GARDENS

Circulation and Gathering



OUTDOOR AMPHITHEATER & GARDENS

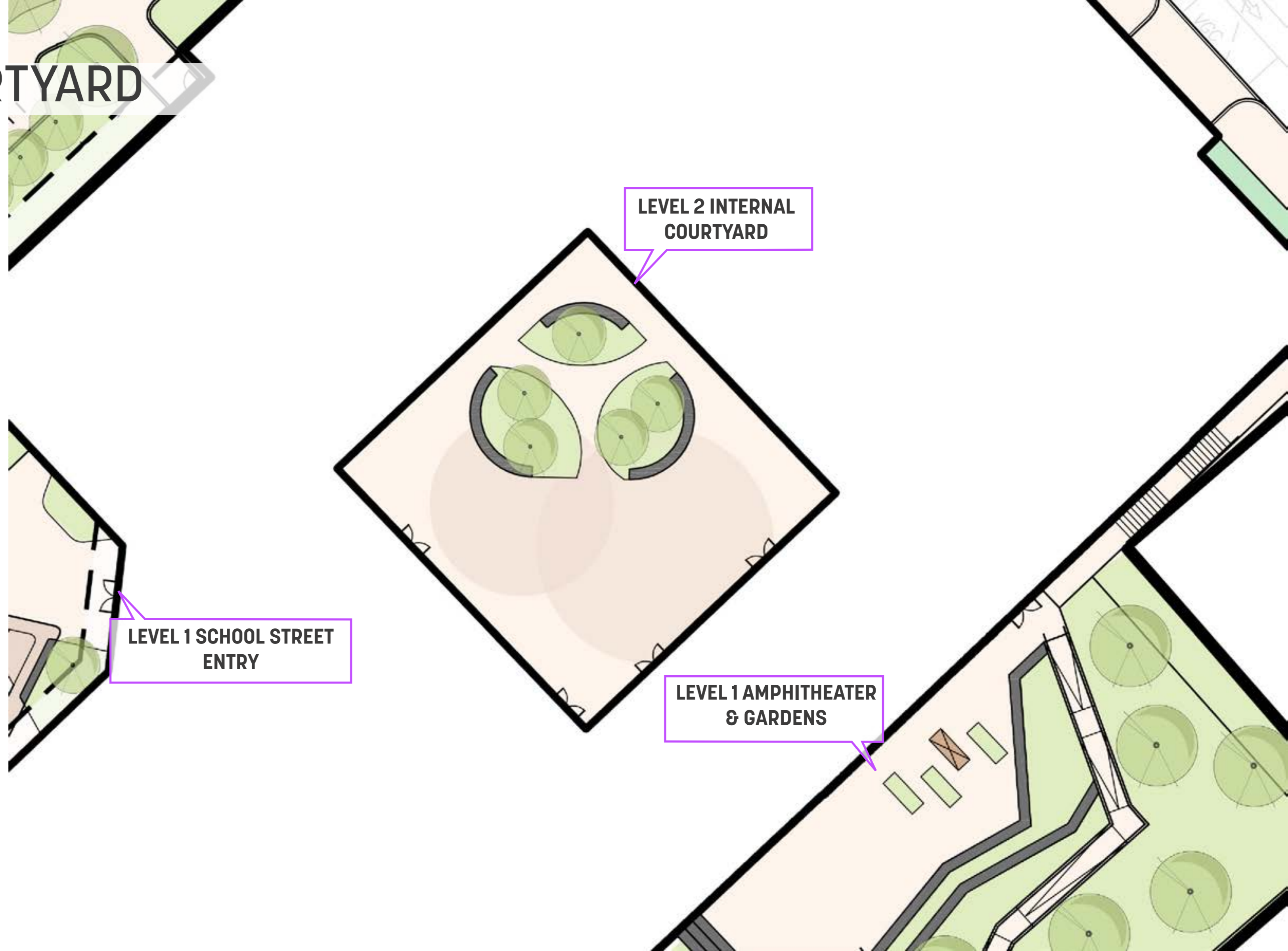


OUTDOOR AMPHITHEATER & GARDENS

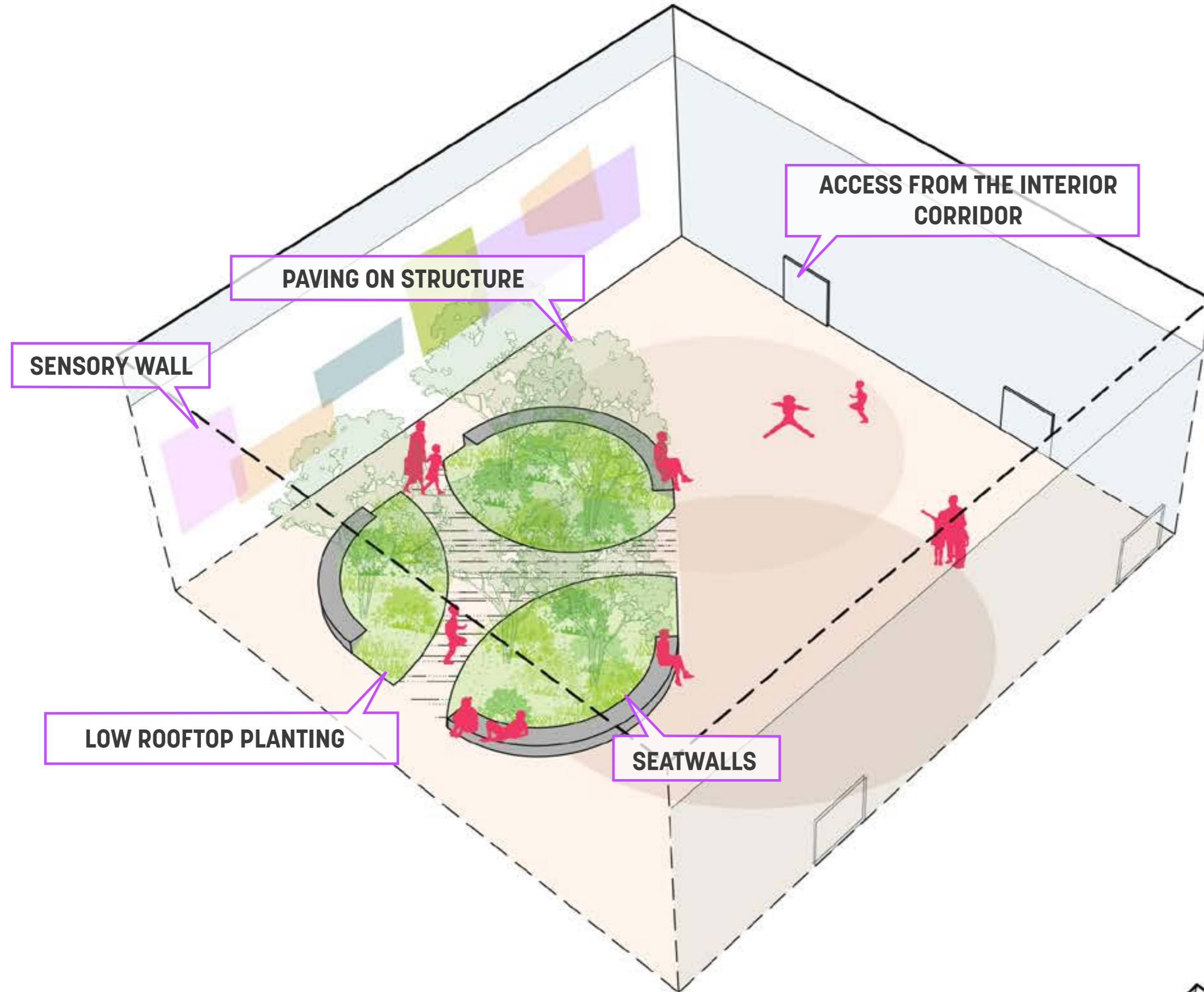
Character



INTERNAL COURTYARD



INTERNAL COURTYARD





SITE SYSTEMS

- Planting
- Materials
- Drainage + Utilities

STREETScape PLANTING

PRECEDENT IMAGERY & CHARACTER

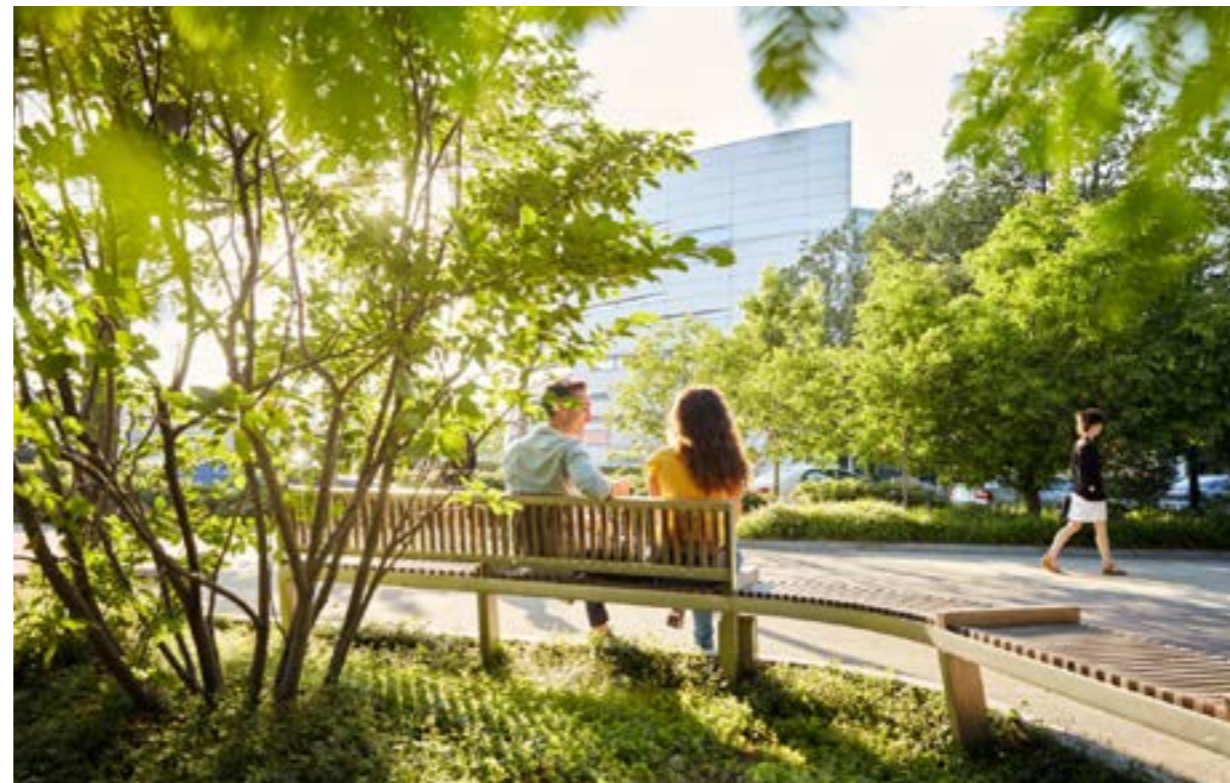
- Complimentary to existing street trees.
- Grasses, shrubs, subtle pops of colorful perennials.



Lurie Garden | Chicago, IL



Constitution Ave | Canberra, Australia

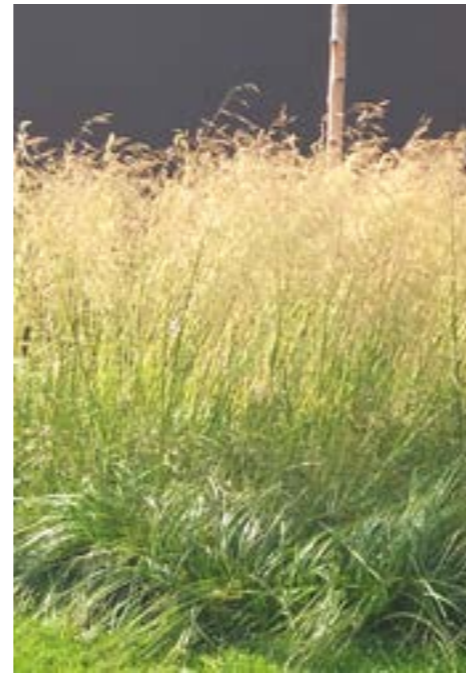


Buffalo Niagra Medical Campus Streetscape | Buffalo NY



STREETSCAPE PLANTING

CONCEPTUAL PALETTE



Tufted Hair Grass



Switchgrass



Little Bluestem



Amsonia 'Blue Ice'



Amsonia



School Street | Existing



Harvard Street | Existing



Accolade Elm | 50-60' Ht



Red Oak | 50-75' Ht



Marmo Freeman Maple | 45-70'

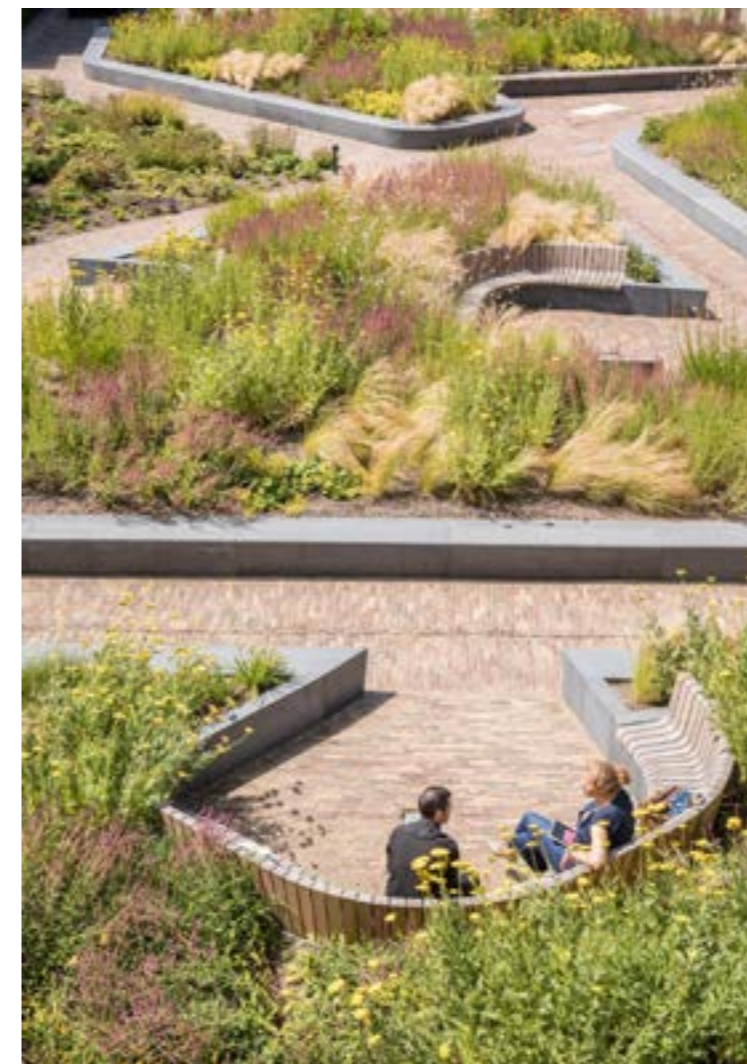
SITE PLANTING

PRECEDENT IMAGERY & CHARACTER

- Providing shade in key locations where people will gather.
- Sensory native plantings in areas where students will be in close contact with plantings.



Perennial Mixes



Delfland Water Authority | Netherlands

SITE PLANTING CONCEPTUAL PALETTE



Hayscented Fern



Sweetfern



Blazing Star



'Arctic Fire' Dogwood



Dwarf Fothergilla



Winterberry



Winterberry



Echinacea



Lavender



Black Eyed Susan

MATERIALITY

CONCEPTUAL PALETTE



PAVEMENT

SEATING & WALLS

FURNISHINGS

STORMWATER MANAGEMENT




MassDEP Stormwater Management Standards

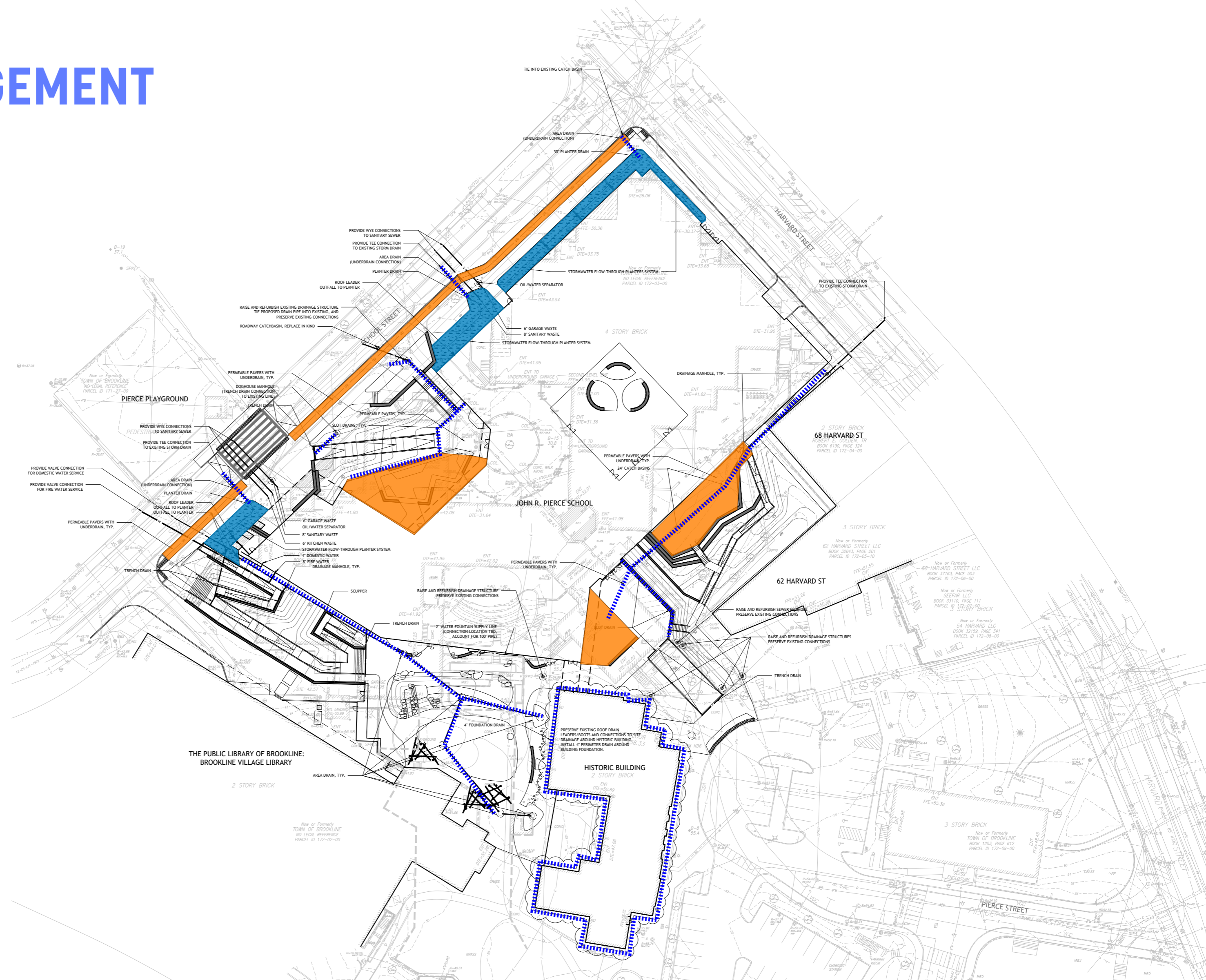
- Post-development peak rates \leq pre-development peak rates
- Maintain annual groundwater recharge
- Remove 80% of TSS (to max. extent practicable for redevelopment projects)

Project Goals

- Minimize impervious surface area
- Reduce and slow runoff
- Promote infiltration when possible
- Provide visible, educational displays of environmental stewardship

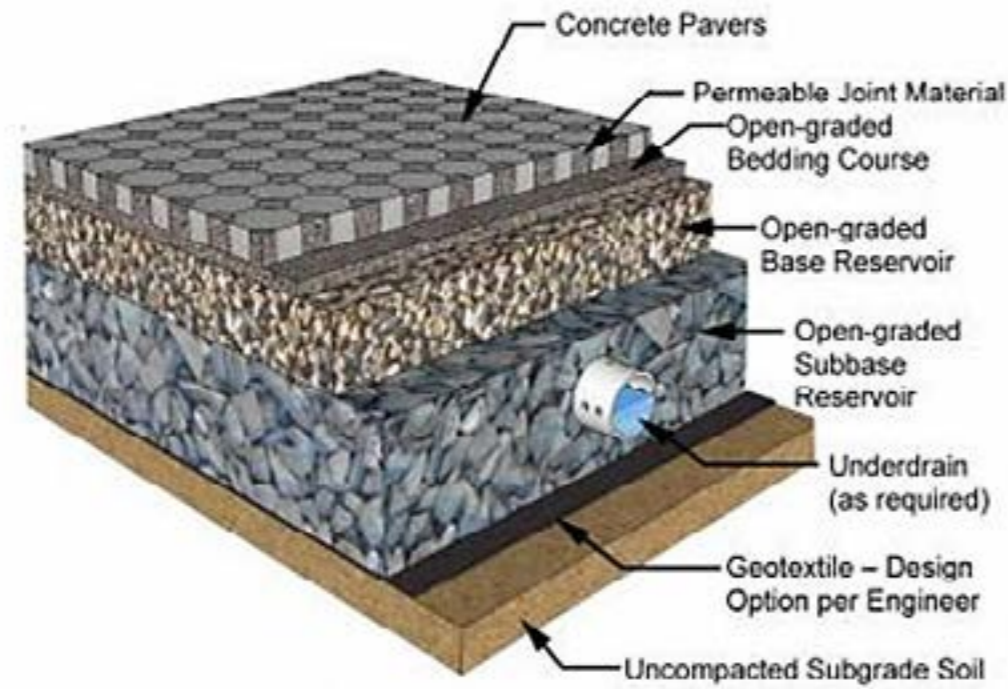
LEGEND

-  PERMEABLE PAVING
-  STORMWATER FLOW-THROUGH PLANTERS
-  NEW DRAINAGE PIPING



STORMWATER MANAGEMENT

Permeable Paving

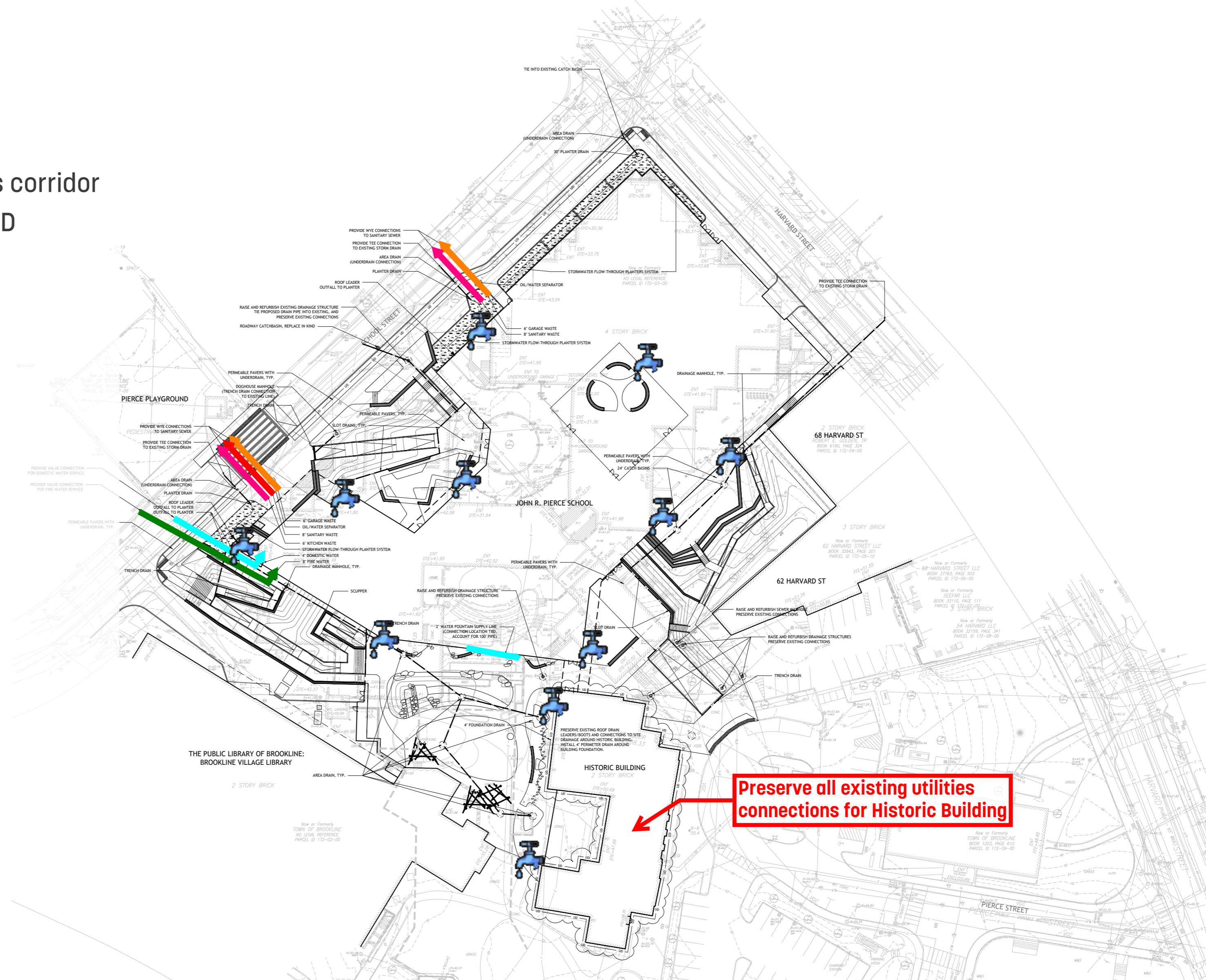


Stormwater Flow-Through Planters



SITE UTILITIES

- Take advantage of School Street utilities corridor
- Coordinate service connections with GGD



LEGEND

-  Domestic Water
-  Fire Water
-  Sanitary Sewer
-  Kitchen Sewer
-  Garage Sewer
-  Hose Bib

Preserve all existing utilities connections for Historic Building



JOHN PIERCE SCHOOL



THANK YOU!

DISCUSSION