

JOHN BURROUGHS ELEMENTARY SCHOOL

COMMISSION OF FINE ARTS | CONCEPT PRESENTATION

FEBRUARY 20, 2025



EXISTING CONDITIONS

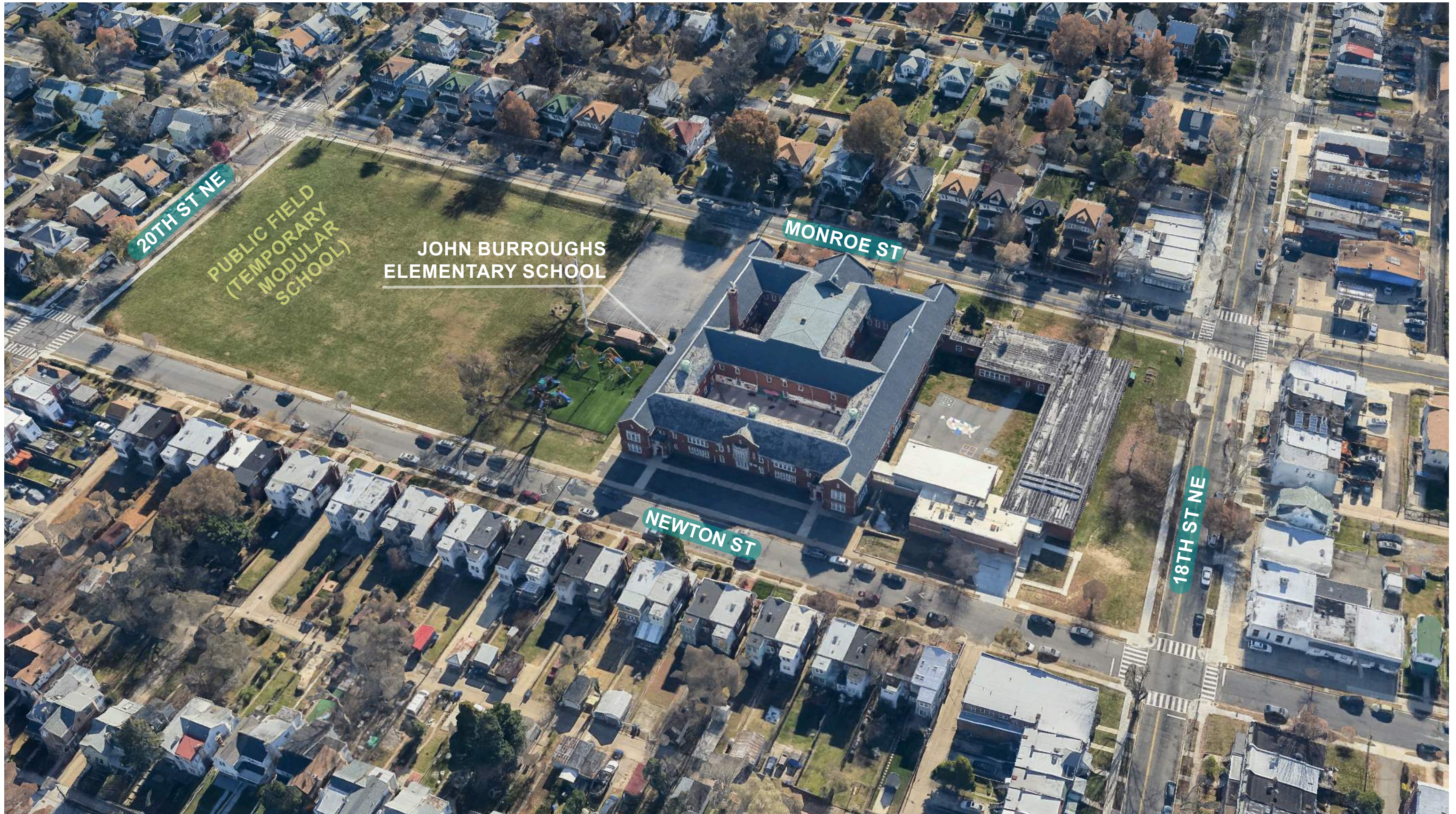
Vicinity Map

- 1 Taft Junior High School
- 2 Basketball Courts
- 3 Tennis Courts
- 4 Basketball Courts
- 5 Taft Field Garden
- 6 Dwight Mosley Playground
- 7 Franciscan Monastery of the Holy Land in America
- 8 Franciscan Monastery Garden
- 9 Public Field
- 10 Woodridge Neighborhood Library



EXISTING CONDITIONS

Existing Aerial View Looking Southeast





JOHN BURROUGHS ELEMENTARY SCHOOL



HISTORY

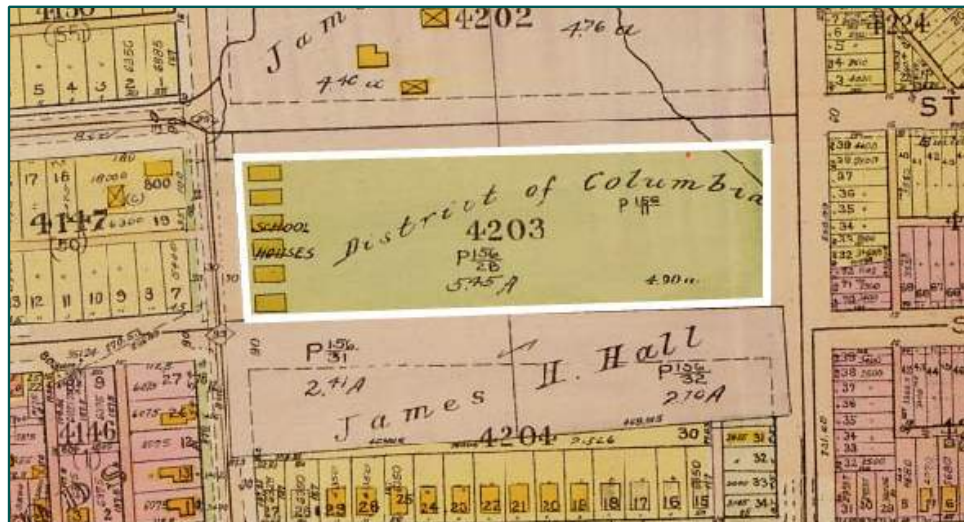
The story of John Burroughs Elementary School is one that echoes the transformation of the Brookland neighborhood itself. Originally the ancestral lands of the Nacotchtank people, the site became part of a colonial land grant and developed into a bustling residential community. Since then, the school has become an important part of the neighborhood.

The school's history reflects not only the changing landscape of Brookland but also the broader social and cultural shifts that have shaped the nation's capital. Named after the celebrated naturalist and writer John Burroughs, the school stands as a testament to the importance of both nature and education.

The Brookland neighborhood inhabits lands that were once home to the Nacotchtank people. They were stewards of the Potomac and Anacostia region for centuries prior to the arrival of European settlers. By the seventeenth century, England was actively asserting control over the area, creating land grants encouraging settler development. What is known as the Brookland neighborhood today became part of Washington County in the 1800's. The establishment of the Catholic University of America and the opening of the Baltimore and Ohio Railroad's western branch initiated residential and commercial development around the current site.



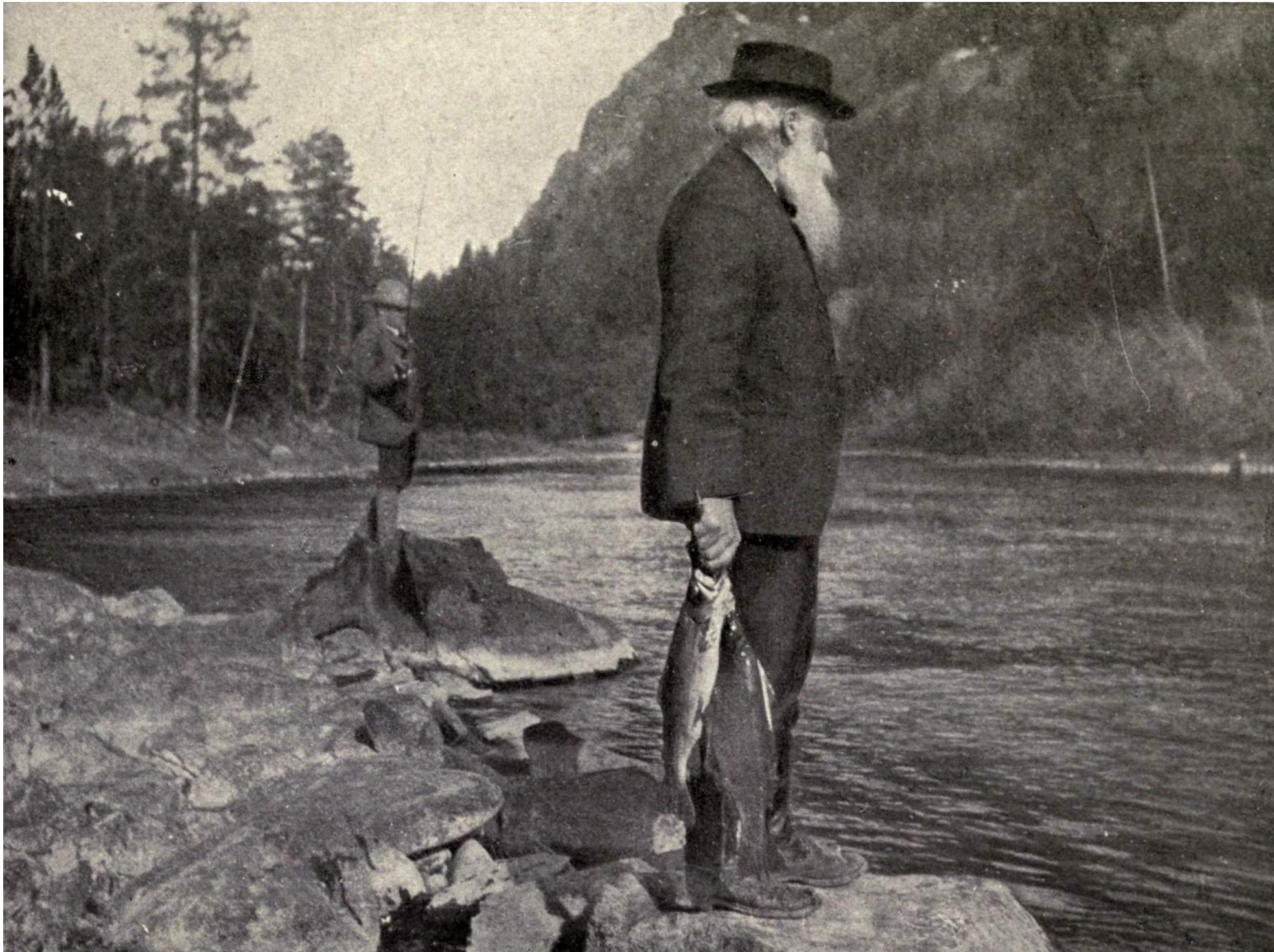
Early photo of John Burroughs Elementary School.



1921 map of school property.



Historic photo of classroom showing corridor ventilation window (top left).



John Burroughs, namesake of school.

*I go to nature to be soothed and healed,
and to have my senses put in order.*

John Burroughs, Naturalist

JOHN BURROUGHS

John Burroughs (1837–1921) was an essayist, naturalist, and conservationist who wrote many books on a variety of topics concerning nature. Over the course of a 50-year writing career, Burroughs cataloged his observations of the natural world; while most other naturalist writers wrote of soaring mountains, scenic vistas, and vast wilderness, Burroughs encouraged his readers to see grandeur in the local and familiar. Burroughs died in 1921.

Naming the new school after John Burroughs was declared a “fitting and appropriate tribute to the famous naturalist, as this school was in the very midst of the nature which he loved so well,” by a local publication called the Neighborhood News.

John Burroughs' philosophy, rooted in deep observation and appreciation of the natural world, is an educational ideology that lends itself to profoundly enriching dynamic learning environments. By fostering hands-on exploration and mindful reflection, educators can encourage a deeper connection with nature. A multi-faceted approach that highlights integral relationships with nature along with plant-based learning and stewardship further amplifies the impact. Embracing Burroughs' philosophy allows educators to cultivate spaces where students not only acquire knowledge but also develop a lifelong love of learning and a profound respect for the natural world.

EXISTING CONDITIONS

CONTEXT

John Burroughs Elementary School is located on the western half of a full city block nestled within a residential neighborhood. Two major traffic arteries, Monroe St. NE and 18th St. NE, makeup the southwest corner of the site, while the northeast corner is bordered by Newton St. NE and 20th St. NE. The historic main entrance is off Monroe St, however, due to heavy traffic on that street, the school uses Newton St. for arrival and dismissal.

Existing site features include a grade change in the north-south direction of approximately eight feet favoring Monroe St, a large open field on the eastern half of the city block, and a few trees scattered around the school.

EXISTING CONDITIONS

Historic Building Photos



1 MONROE ST ENTRANCE.



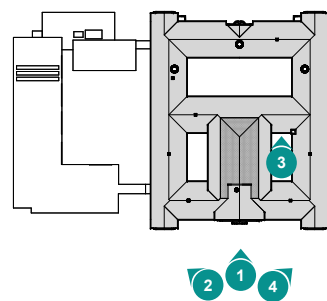
2 MONROE ST LOOKING WEST



3 SMALL COURTYARD



4 MONROE ENTRANCE LOOKING EAST



EXISTING CONDITIONS

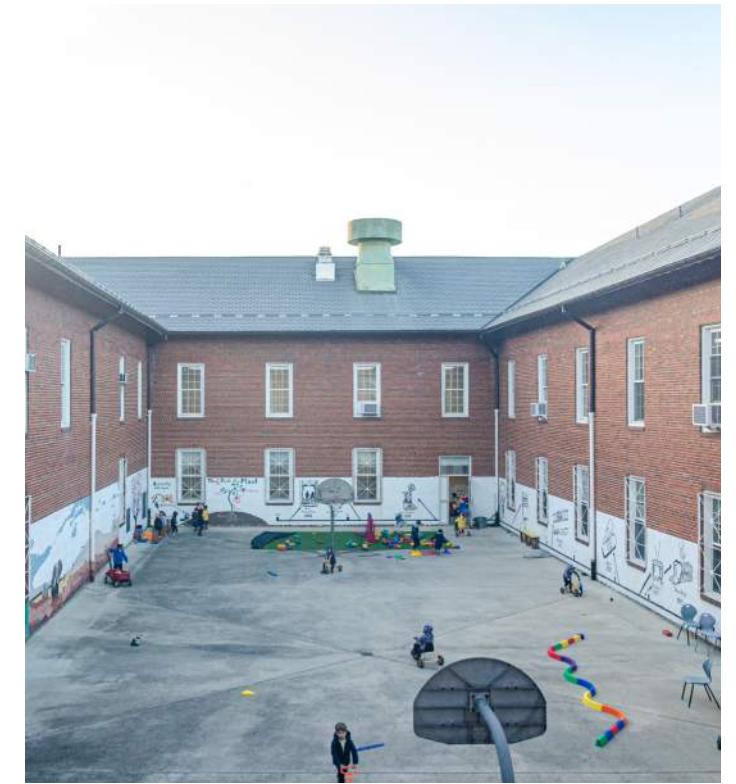
Historic Building Photos



1 WEST HISTORIC FACADE



2 SOUTH EAST FACADE FROM MONROE ST



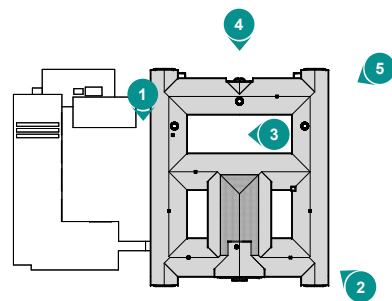
3 LARGE OPEN COURTYARD



4 NORTH ELEVATION FROM NEWTON ST



5 EAST FACADE FROM NEWTON ST, HERITAGE TREE, AND EXISTING PLAYGROUND



EXISTING CONDITIONS

Addition Building Photos



1 NORTH FACADE OF 2013 ADDITION.



2 2013 ADDITION CONNECTOR FROM NEWTON ST.



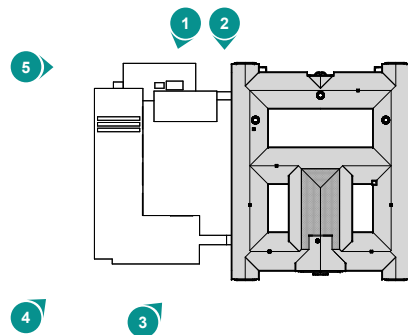
3 SOUTH FACADE OF 1959 ADDITION.



4 CORNER OF MONROE ST AND 18H ST NE, LOOKING AT 1959 ADDITION.



5 RAMP AND NEWTON ST ENTRANCE OF 2013 ADDITION.



EXISTING CONDITIONS

Site Context Photos



1 MONROE ST



2 MONROE ST



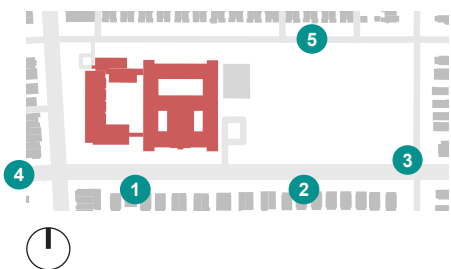
3 20TH ST



4 MONROE ST AND 18TH



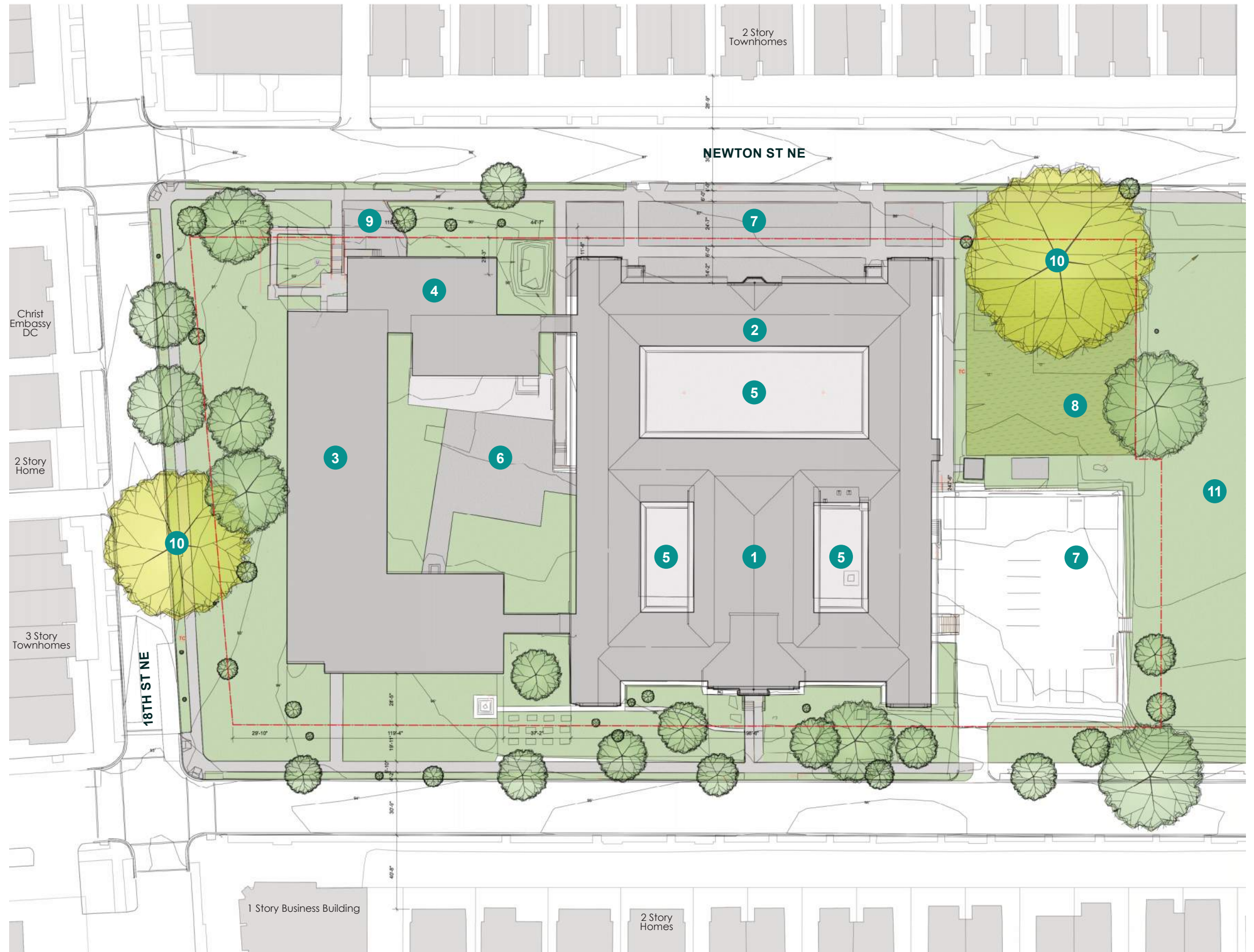
5 NEWTON ST



CONTEXT

Existing Site Plan

- 1 1921 Burroughs School Building (2 Story)
- 2 1927 Burroughs School Building (2 Story)
- 3 1959 Addition (1 Story)
- 4 2013 Addition (1 Story)
- 5 Open Courtyard
- 6 Court
- 7 Parking
- 8 Playground
- 9 Service Yard
- 10 Heritage Tree
- 11 Public Field (Temporary Modular School)

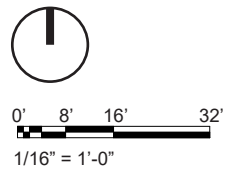
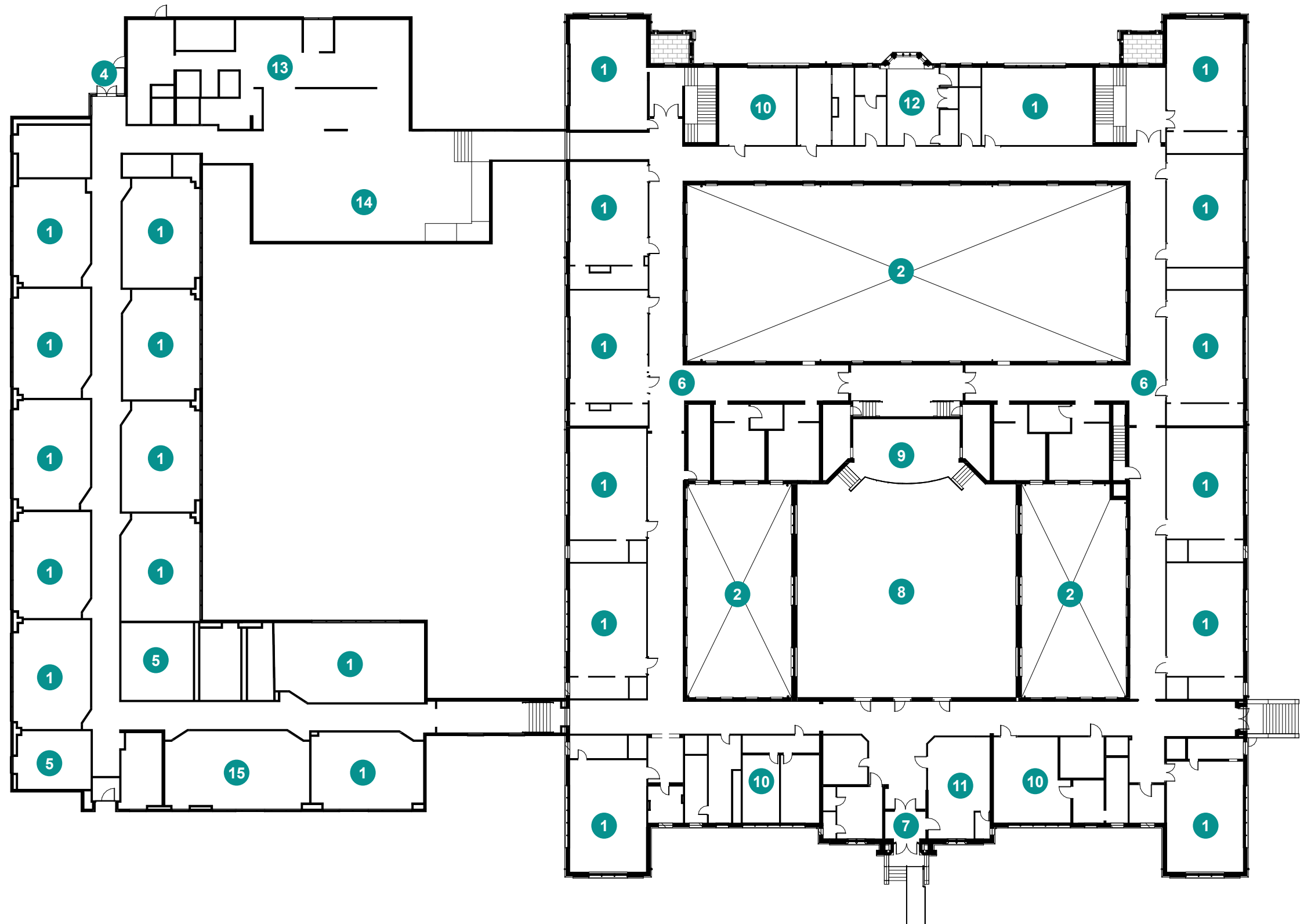


QEA

EXISTING CONDITIONS

First Floor Plan

- 1 Classroom
- 2 Open Courtyard
- 3 Egress Stair
- 4 Main Student Entrance
- 5 Storage
- 6 Circulation
- 7 Historic Entrance
- 8 Multipurpose Gymnasium
- 9 Stage
- 10 Administration
- 11 Welcome Desk
- 12 Health Suite
- 13 Kitchen
- 14 Cafeteria
- 15 Library



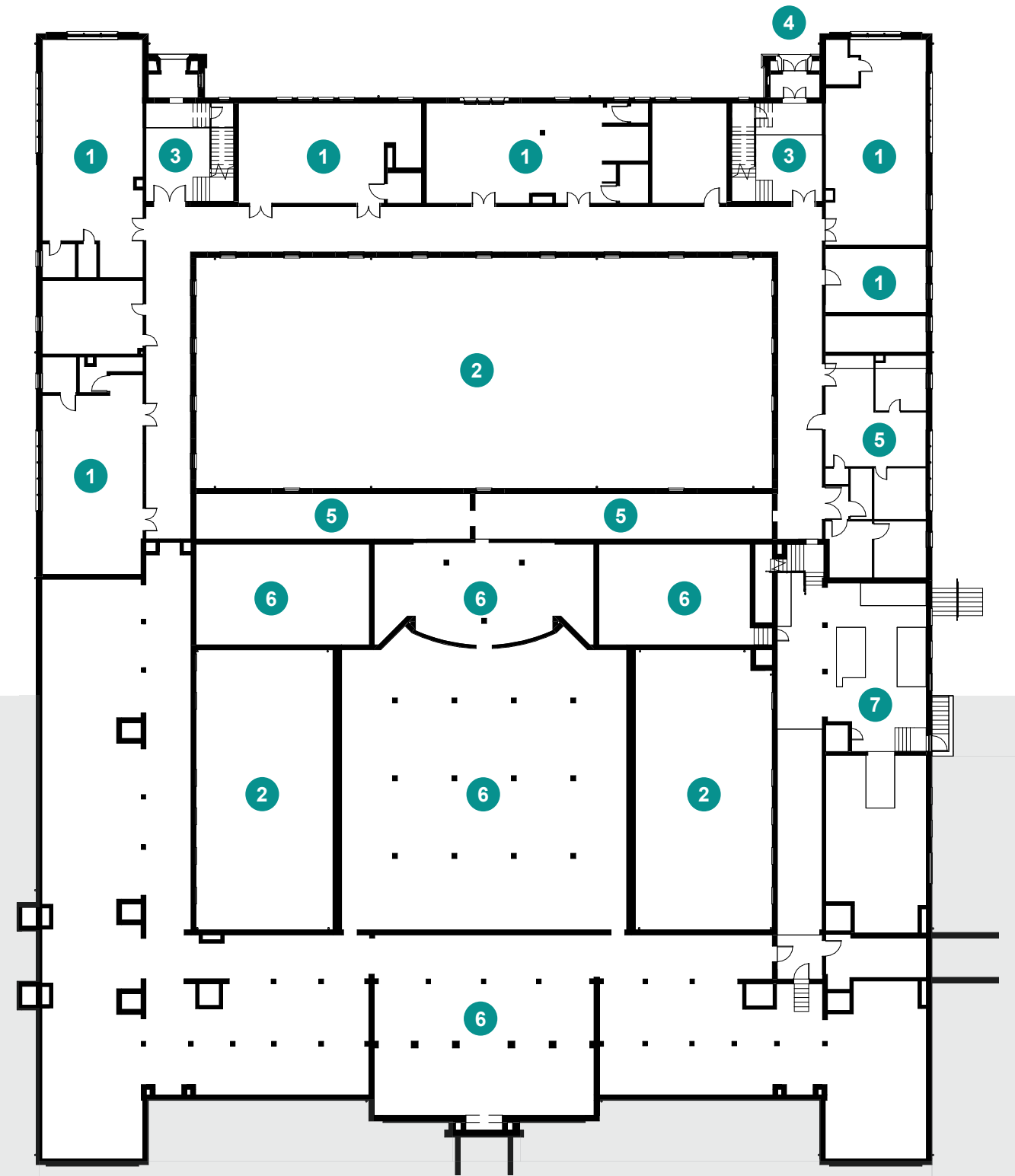
EXISTING CONDITIONS

Ground Floor Plan

- 1 Classroom
- 2 Open Courtyard
- 3 Egress Stair
- 4 Student Entrance
- 5 Storage
- 6 Excavated Basement Without Floor Slab
- 7 Main Mechanical Space

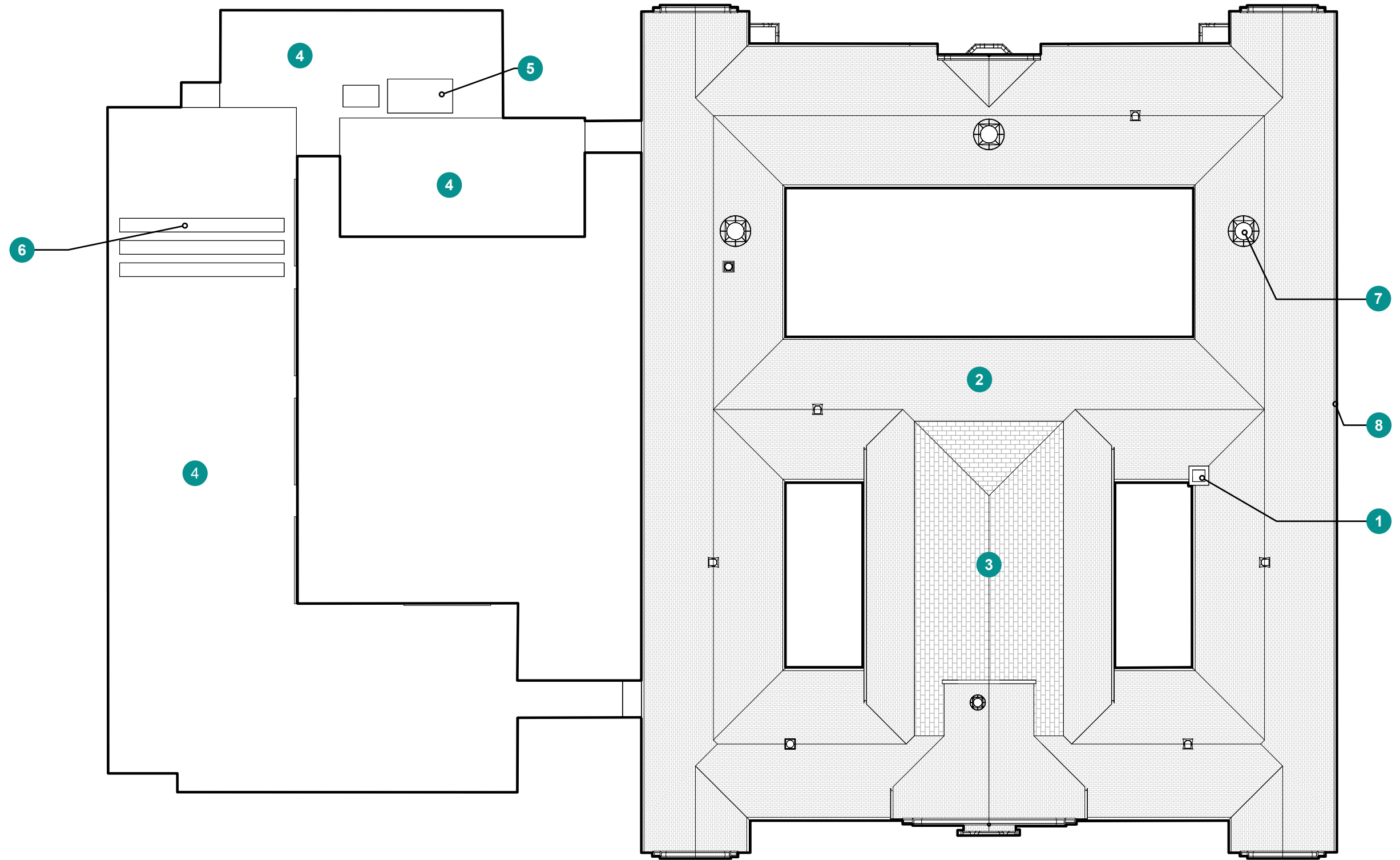


0' 8' 16' 32'
1/16" = 1'-0"



EXISTING CONDITIONS

Roof Plan



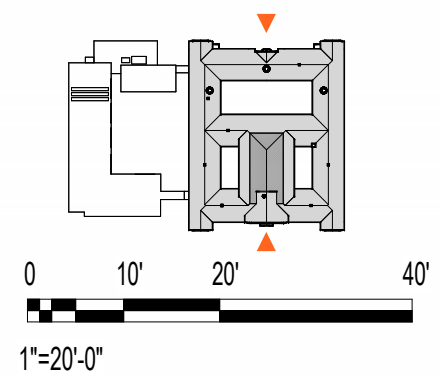
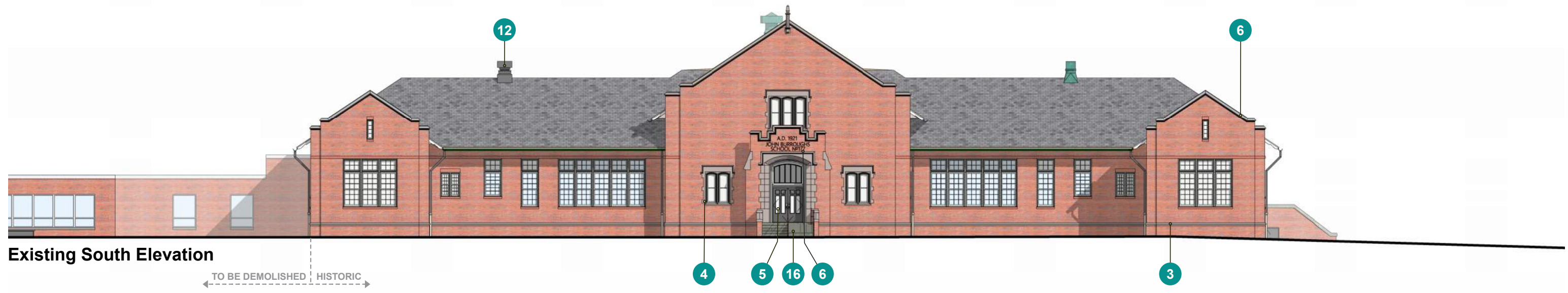
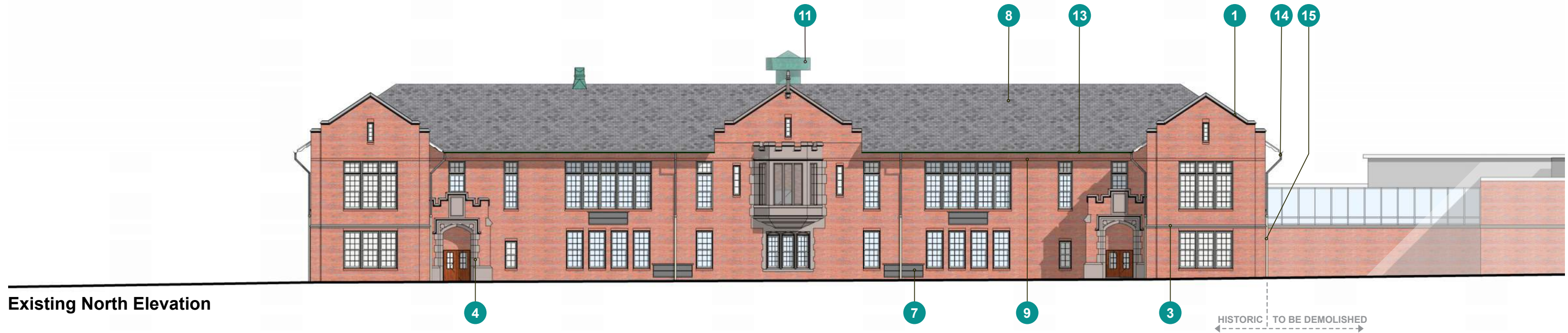
- 1 Brick Chimney
- 2 Slate Roofing
- 3 Metal Panel Roof
- 4 Single Ply Roofing
- 5 Mechanical Equipment
- 6 Solar Panels
- 7 Mechanical Ventilator
- 8 Copper Gutter



0' 8' 16' 32'
1/16" = 1'-0"

EXISTING CONDITIONS

Existing Historic Building Elevations



EXISTING ELEVATION NOTES

- | | | | | | |
|---|--------------------------------|----|------------------------------|----|-----------------------------|
| 1 | Limestone coping | 8 | Slate Roofing | 15 | PVC Downspout |
| 2 | Limestone Sill | 9 | Brick Soldier Course | 16 | Concrete ADA Ramp and Steps |
| 3 | Limestone Banding | 10 | Brick Chimney | 17 | Painted Metal Louver |
| 4 | Limestone Surround | 11 | Copper Mechanical Ventilator | 18 | Metal Coping |
| 5 | Historic Main Entrance | 12 | Steel mechanical ventilator | 19 | Cast Stone Band |
| 6 | Historic Signage | 13 | Copper Gutter | | |
| 7 | Metal Grille at Fan Coil Units | 14 | Copper Downspout | | |

EXISTING CONDITIONS

Existing Building Facade Analysis



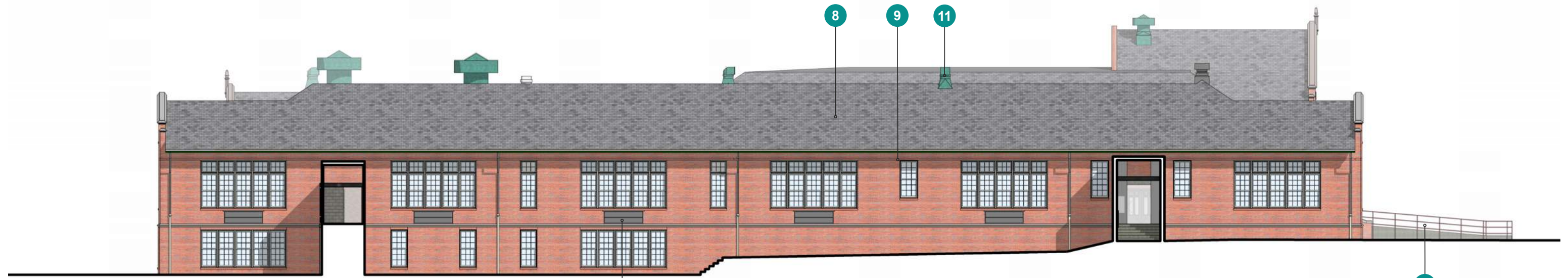
Gable Elevation Defining Elements

- Layered gable facade with step-backs in brick
- Stone coping on gable end parapets
- Pitched roofs abut gables with projecting eaves/rafter tails/downspouts at sides
- Limestone watertable
- Continuous soldier course above windows

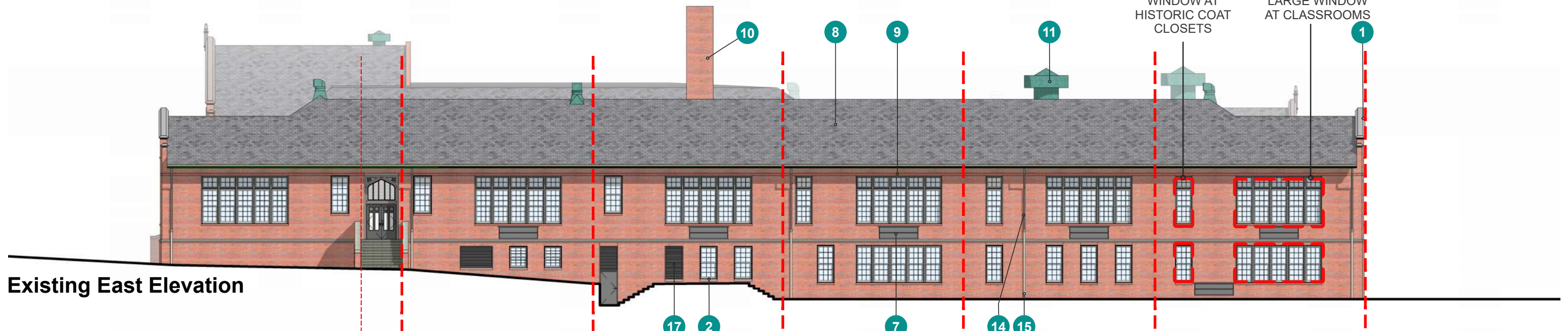


EXISTING CONDITIONS

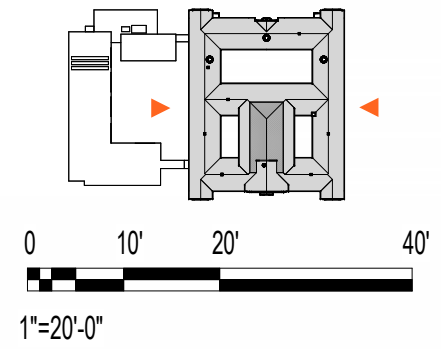
Existing Historic Building Elevations



Existing West Elevation



Existing East Elevation

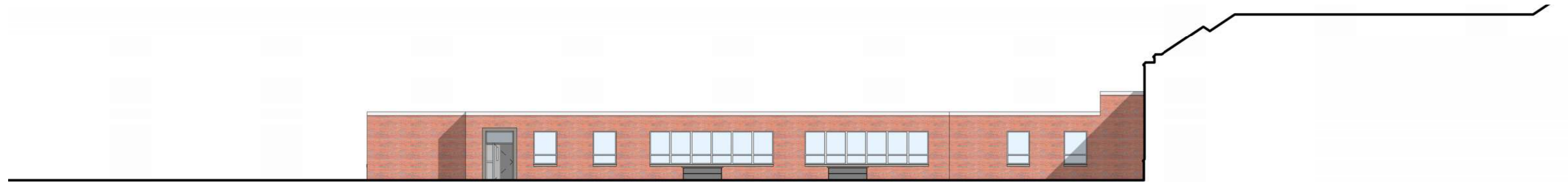


EXISTING ELEVATION NOTES

- | | | | | | |
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EXISTING CONDITIONS

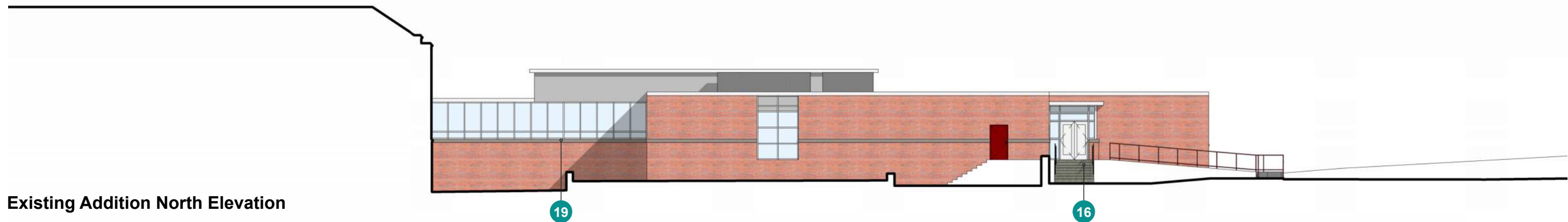
Existing Addition Building Elevations



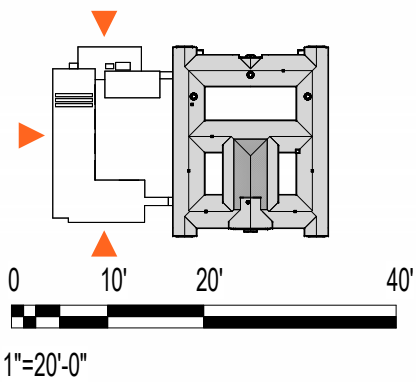
Existing Addition South Elevation



Existing Addition West Elevation



Existing Addition North Elevation



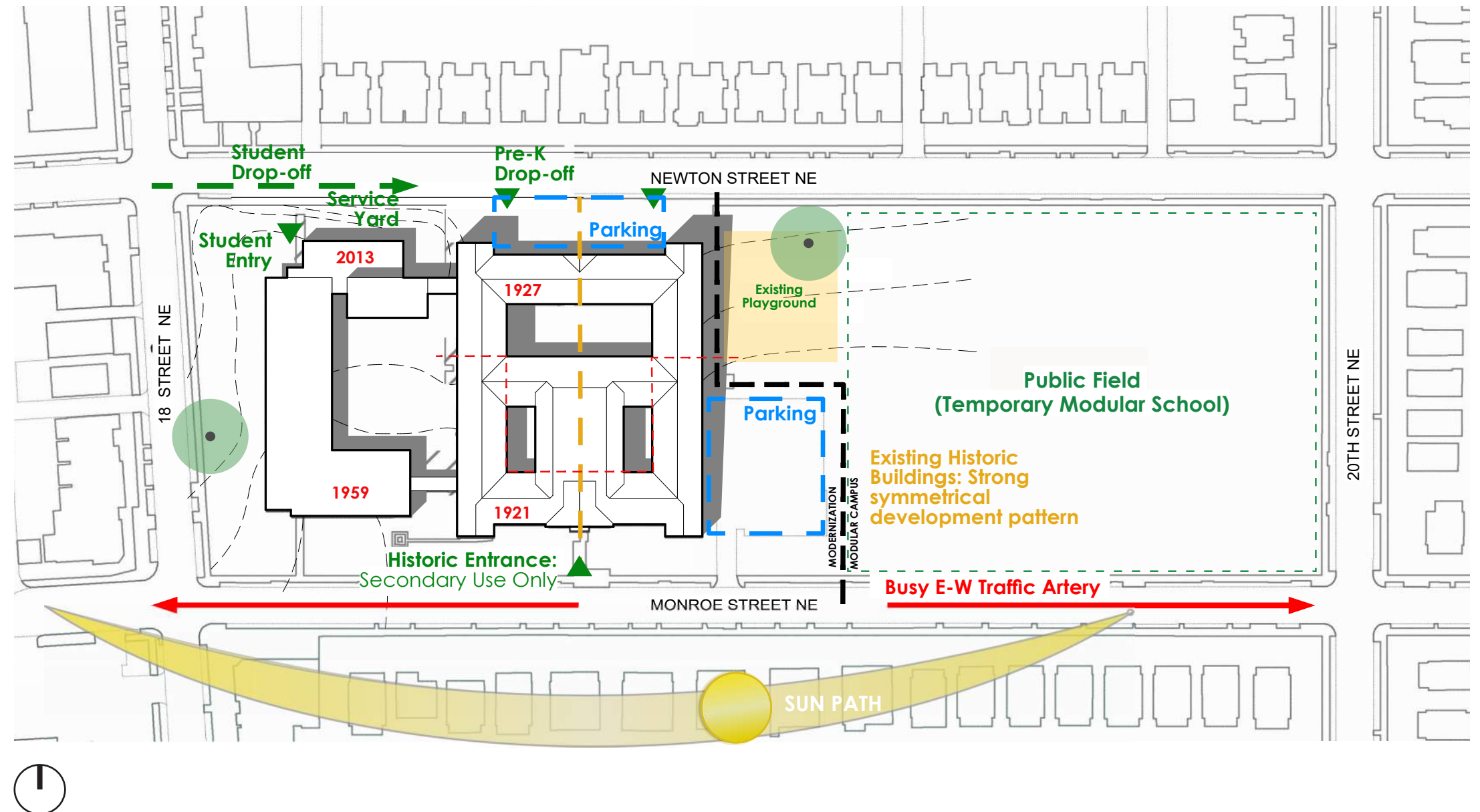
EXISTING ELEVATION NOTES

- | | | | | | |
|---|--------------------------------|----|------------------------------|----|-----------------------------|
| 1 | Limestone coping | 8 | Slate Roofing | 15 | PVC Downspout |
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| 7 | Metal Grille at Fan Coil Units | 14 | Copper Downspout | | |

EXISTING CONDITIONS

Site Analysis

- **Historic school entrance safety issues:** Monroe St. is a major traffic through-fare. School currently uses multiple doorways on Newton St for arrival/pick-up to mitigate risk.
- **Newton Street Vehicle Issues:** Teacher Parking and Loading/ Trash along Newton St present safety and aesthetic issues.
- **2 heritage trees in close proximity to the building.** Critical Root Zones significantly impact areas of potential development on the west end of the site.
- **East Constraints:** Site improvements to the East side are limited by temporary Modular School (on play field).
- **Addition Accessibility and Planning Issues:** 1950's and 2013 Additions have ADA issues. Student Dining location (2013 addition) drives the problematic service yard location.
- **Under-utilized Courtyards:** Historic building courtyards are concrete covered yards. The smaller courtyards are not used by students.
- **Strong North-South symmetrical development pattern in Historic Building:** Main Entrance, Gymnasium, the courtyards and north bay window are all on a formal NS axis.



Taking into account the pedagogy of the school and its associated namesake of John Burroughs, the design team created a list of Guiding Principles used in conjunction with the Project Objectives outlined above, these Guiding Principles help inform and measure design success.

STEM Incubator

Learning Landscapes

Fostering Student Community

Connection to Nature

Sustainability Goals

STEM Incubator

Creating a learning environment that celebrates exploration and discovery. As a STEM school, exploration and discovery are fundamental to the teaching pedagogy at Burroughs Elementary. Students will be able to use the school as a teaching tool to learn about various building systems and functions via:



- Exposed building systems: Feature visible pipes, ducts, and structural elements to spark curiosity about how buildings work.
- Flexible classrooms: Design classrooms that can be easily reconfigured to support various STEM activities, from group projects to individual experiments.
- Interactive Displays: Install interactive displays that showcase STEM concepts, such as energy use or building sustainability.
- Student Work Gallery: Providing multiple areas and opportunities for self-curated display of student work, discoveries and explorations.

Learning Landscapes



An integrated campus, where learning happens everywhere, is a key theme of the building and site. The landscape will seamlessly weave itself around and through the building, creating moments of interaction between the natural and built environments. Students will be able to learn directly from and within the landscape via:

- Sensory Gardens: Gardens with diverse plant life, textures, scents, and sounds to stimulate the senses.
- Nature Play Areas: Playgrounds with natural elements like logs and boulders to encourage exploration and play.
- Outdoor Learning Labs: Development of designated spaces for outdoor science experiments, gardening, and nature observation.
- Semi-Indoor and Semi-Outdoor spaces: Spaces such as covered porches or courtyards that invite learning beyond the typical classroom.

Fostering Student Community



An important component to the design is defining a “Heart of the School”. A strong school community provides a safe and supportive environment where students can develop healthy relationships, learn social skills, and build empathy and understanding. The building will foster connections between students, teachers and community via:

- **Community Engagement:** Engage students, teachers, and the local community in the design and maintenance of biophilic elements.
- **Small Group Spaces:** Include nooks, alcoves, cozy corners, or breakout rooms adjacent to classrooms or in hallways where students can work together on projects or socialize in smaller quieter areas.
- **Accessibility:** Ensure all spaces are universally accessible and inclusive for all students and visitors.

Connection to Nature



Facilitating a sense of connection to and interest in the natural world was integral to John Burroughs' philosophy. The project strives to embody this ethos by integrating biophilic design principles to reinforce a deeper connection between students and nature via:

- **Natural Light:** Maximize daylight in classrooms and circulation areas through large windows, skylights, and light wells.
- **Views of Nature:** Provide unobstructed views to the outdoors, framing trees, gardens, or natural landscapes.
- **Biomorphic Forms:** Provide architectural elements that reference nature-based geometries and materials.
- **Mass Timber:** Provide a structural solution that promotes embodied carbon, responsible material selection and contributes to biomorphic design.

Sustainability Goals



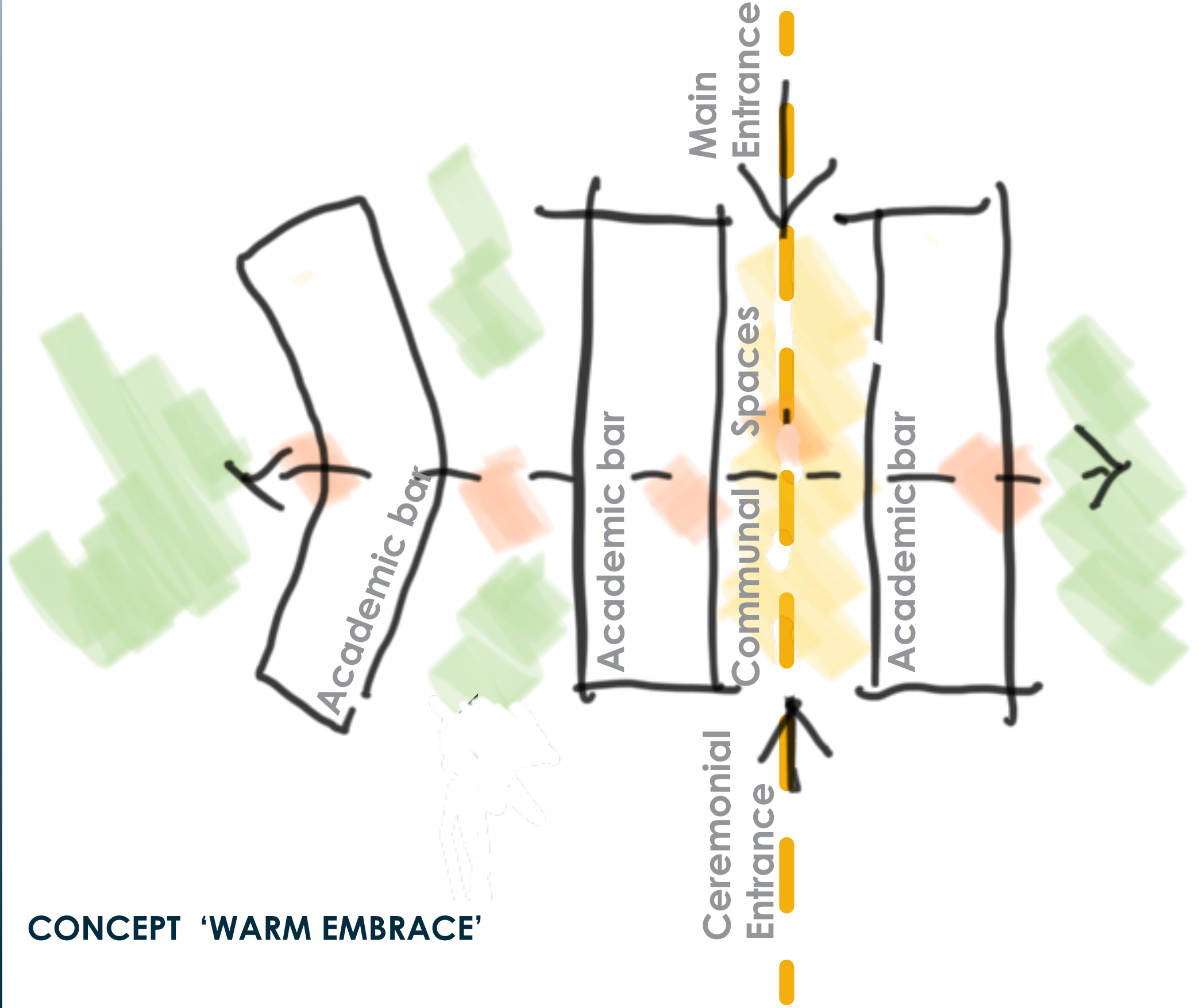
A sustainable school building serves as a living laboratory, demonstrating how thoughtful design can positively impact both our planet and the well-being of its inhabitants.

- **Embodied carbon:** Reuse of the existing under-croft space to save tons of CO2 from being added to the atmosphere and showcase the benefits of building reuse to students.
- **Material Selection:** The selection of reclaimed, recycled or rapidly renewable materials will promote a responsible design response.

Sustainability goals for the project include:

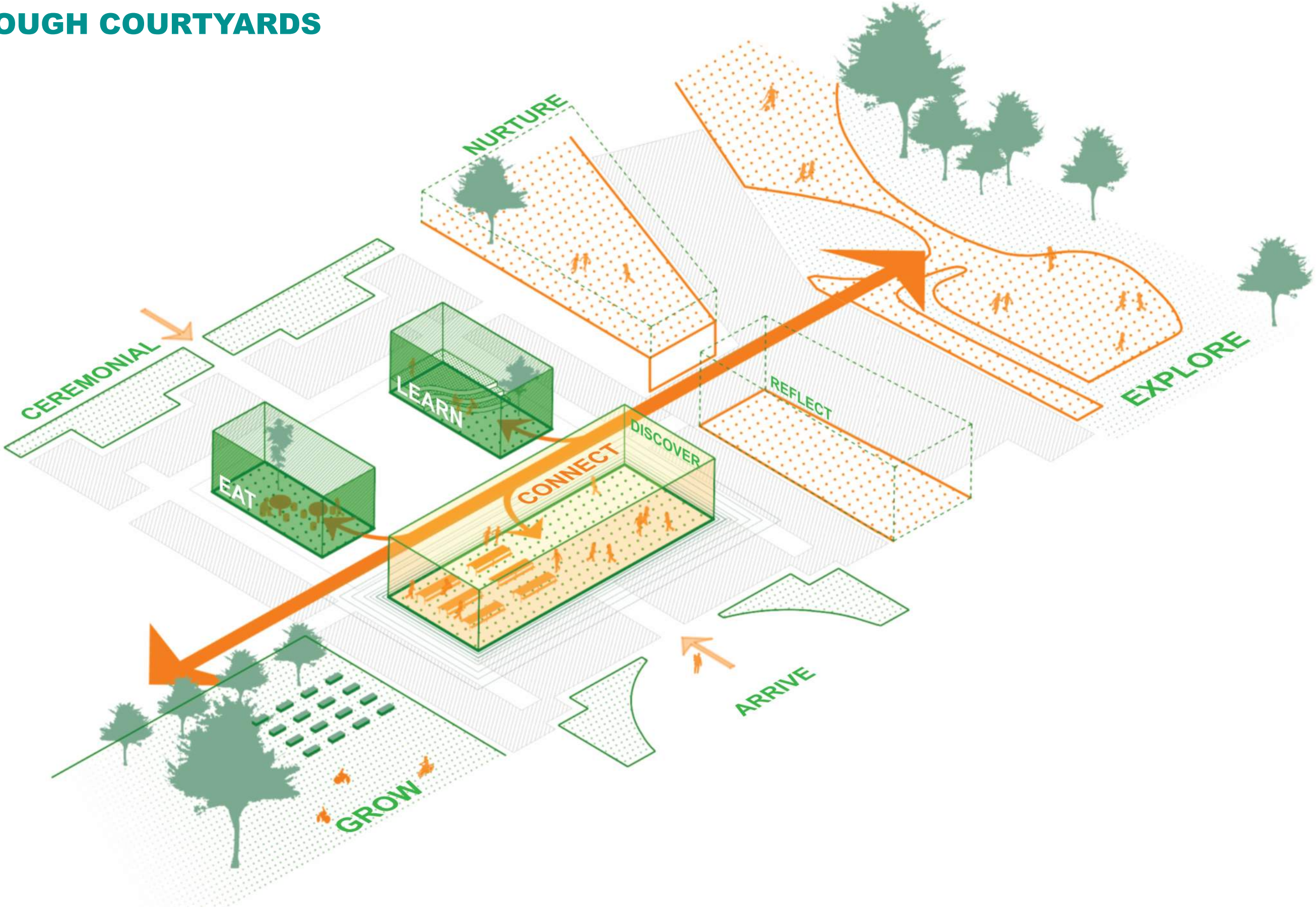
- LEED BD+C: Schools - Gold Certification
- ENERGY STAR Certification
- Net Zero: EUI < 20, Solar ready
- Low Total Carbon: Adaptive reuse, Heavy Timber Construction

3 PROPOSED CONCEPT DESIGN



CONCEPT 'WARM EMBRACE'

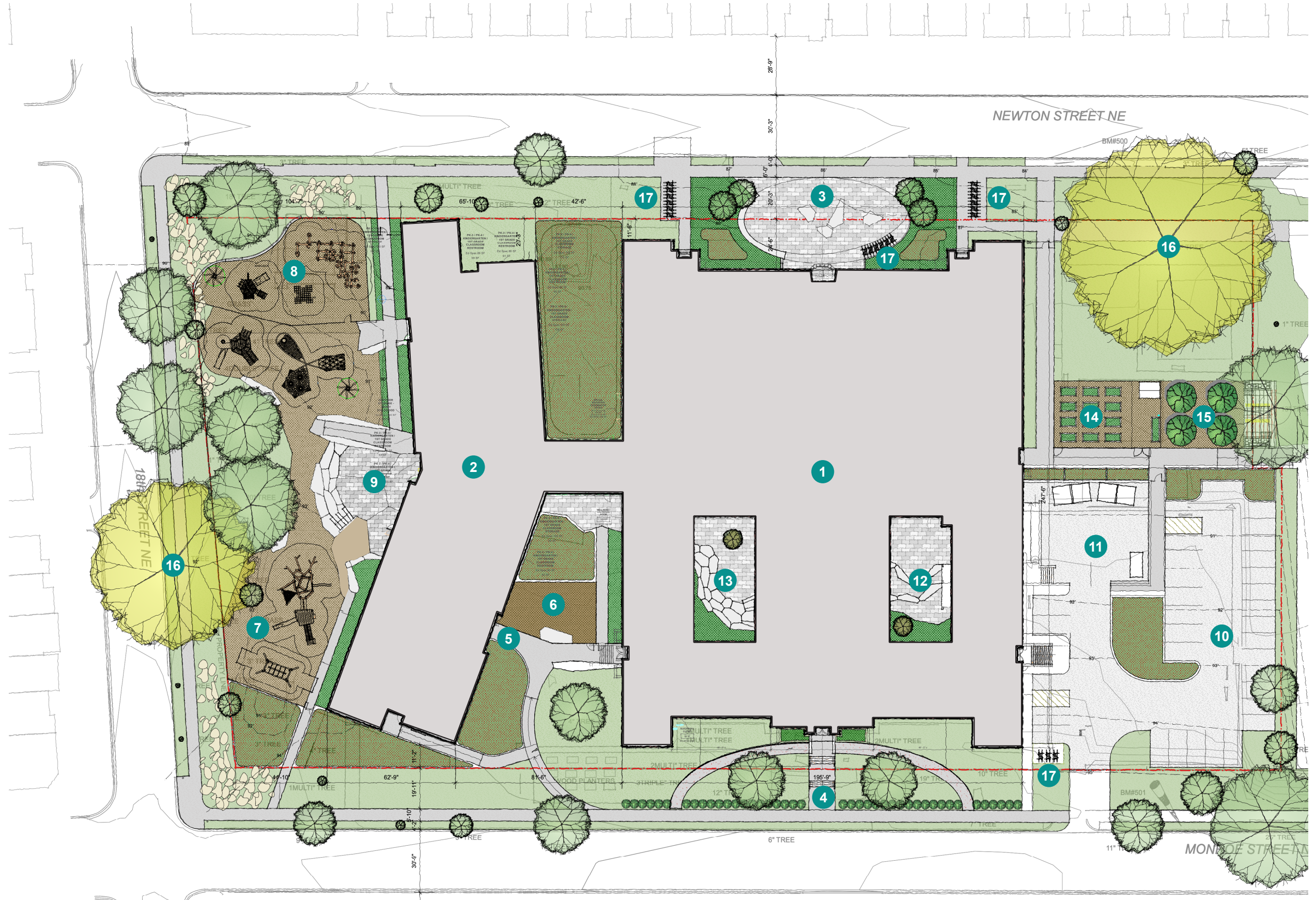
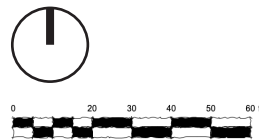
CONNECTION TO NATURE THROUGH COURTYARDS



PROPOSED CONCEPT DESIGN

Site Plan

- 1 1921-27 Burroughs School Building
(2 Story)
Addition (2 Story)
- 3 Entry Plaza
- 4 Secondary Entrance
- 5 CDC Entrance
- 6 CDC Playground
- 7 5-12 Year Playground
- 8 Early Childhood Development
Playground
- 9 Plaza
- 10 Parking
- 11 Service
- 12 Outdoor Dining
Courtyard
- 13 Outdoor Learning
Courtyard
- 14 Garden
- 15 Orchard
- 16 Heritage Tree to
Remain
- 17 Bike Rack



PROPOSED CONCEPT DESIGN

Newton St. Main Entrance Rendering

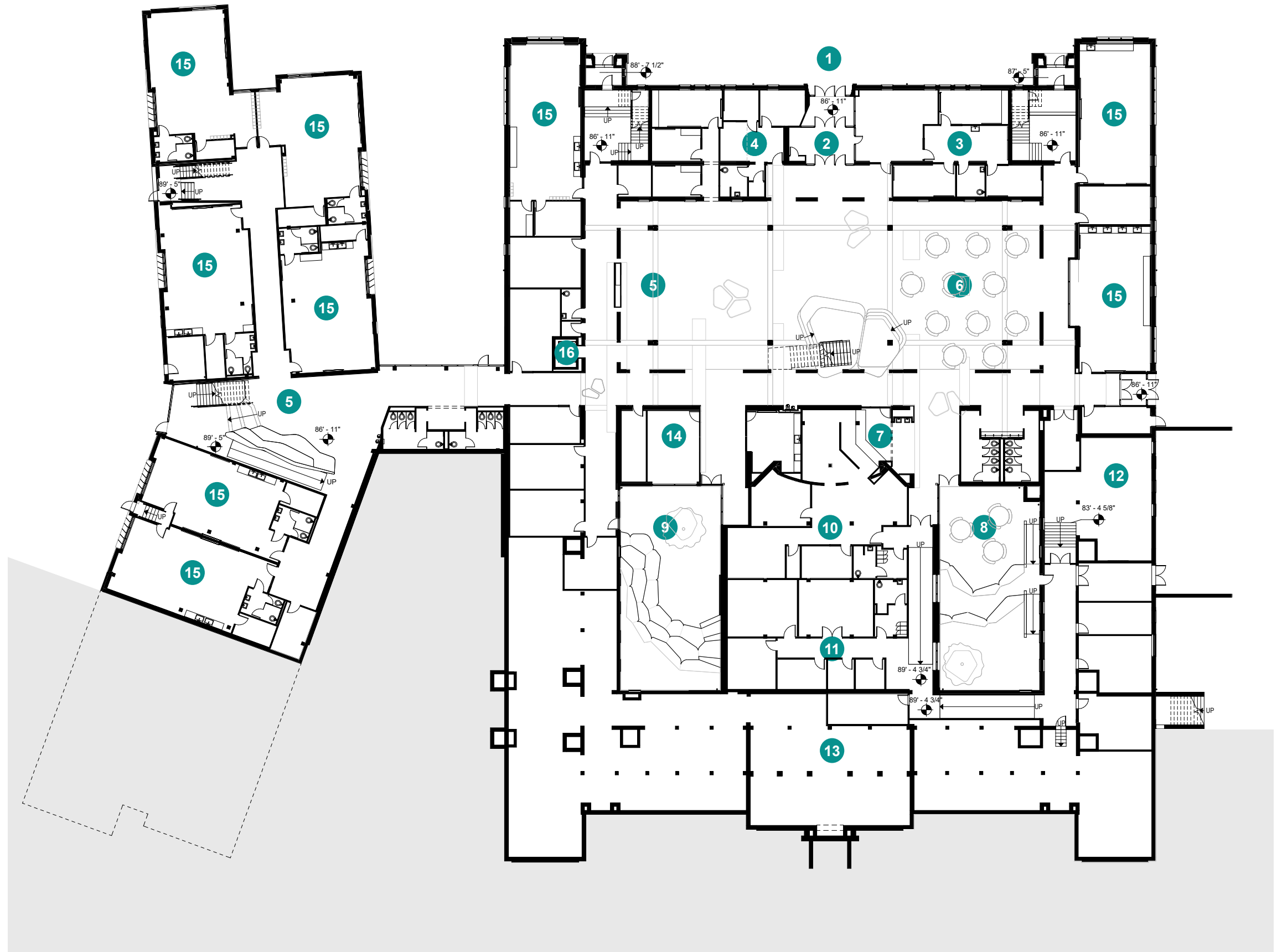
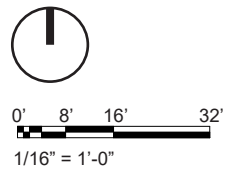


Proposed entry plaza will provide an outdoor arrival and gathering space to serve the school's drop off and pickup needs.

PROPOSED CONCEPT DESIGN

Ground Floor Plan

- 1 Entry Plaza
- 2 Entrance Lobby
- 3 Administration
- 4 Health Suite
- 5 Discovery Commons
- 6 Student Dining
- 7 Cafeteria
- 8 Outdoor Dining (Open Courtyard)
- 9 Learning Courtyard (Open)
- 10 Food Service Spaces
- 11 Custodial Spaces
- 12 Main Mechanical Space
- 13 Unexcavated Basement
- 14 Teacher Collaboration Space
- 15 Classroom
- 16 Elevator



PROPOSED CONCEPT DESIGN

Courtyard Commons Rendering



The existing large courtyard is enclosed to become the new 'heart' of the school. In addition to serving as a circulation hub the space will accommodate student dining and a flexible STEM focused learning area.

PROPOSED CONCEPT DESIGN

Discovery Commons Courtyard Rendering



The STEM focused learning area at the west end of the courtyard incorporates a teaching wall and flexible seating.

PROPOSED CONCEPT DESIGN

Learning Courtyard Rendering



- ▲ DCPS embraces opportunities for outdoor learning and includes an outdoor classroom in its Education Specification. The West small courtyard is a classroom sized 'outdoor room' that will serve this function while at the same time bringing natural light and landscape elements into the heart of the existing building.
- ◀ Connecting corridor to courtyard from courtyard commons area.

PROPOSED CONCEPT DESIGN

Dining Courtyard Rendering

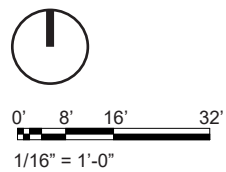
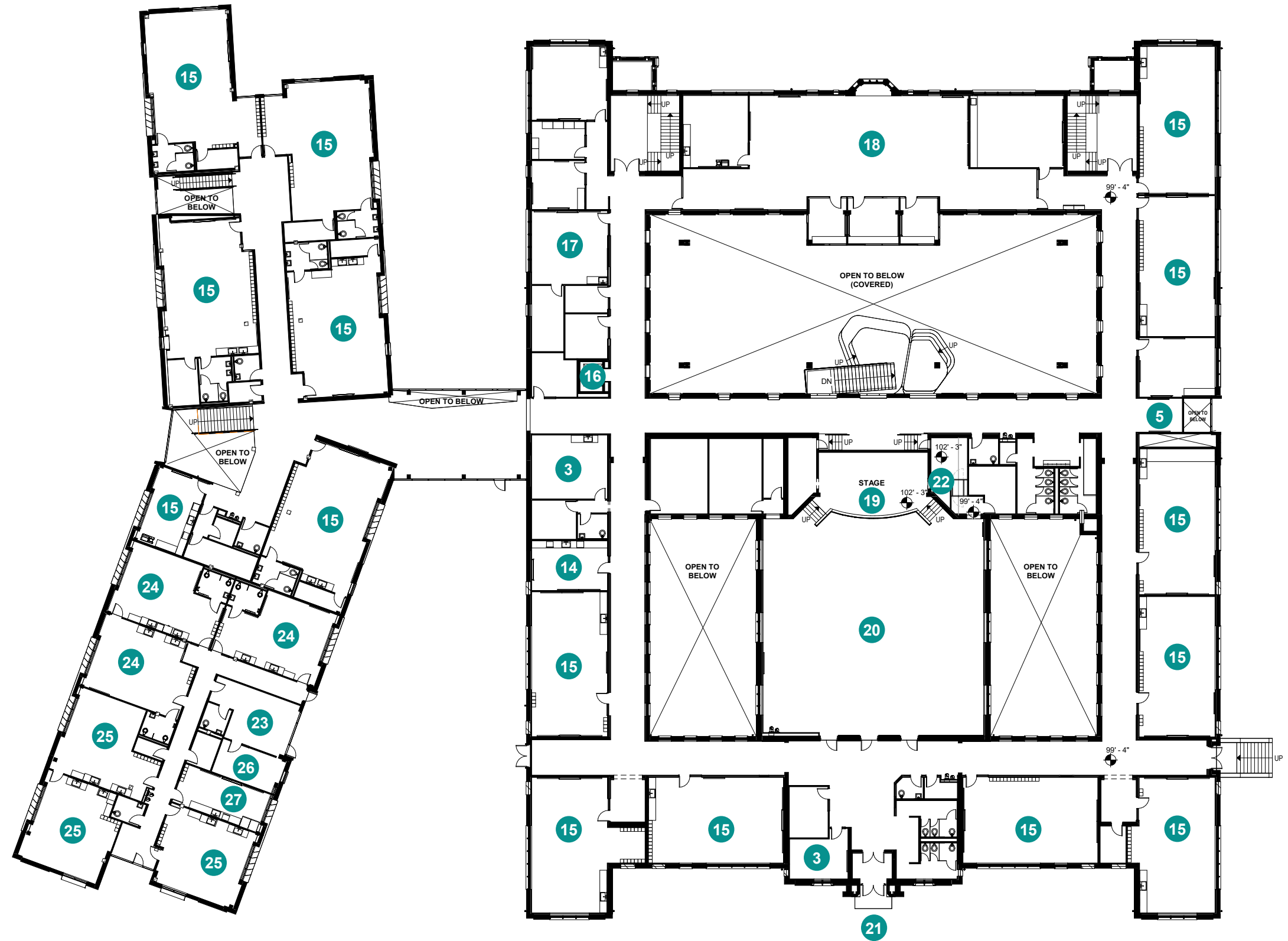


The East small courtyard similarly provides an area for outdoor dining in close proximity to the food service and student dining area.

PROPOSED CONCEPT DESIGN

First Floor Plan

- 3 Administration
- 5 Discovery Commons
- 14 Teacher Collaboration Space
- 15 Classroom
- 16 Elevator
- 17 Student Support Space
- 18 Library Suite
- 19 Restored Historic Stage
- 20 Restored Historic Gymnasium
- 21 Historic Entrance
- 22 Accessible Chair Lift
- 23 CDC Welcome Center
- 24 CDC Toddler Room
- 25 CDC Infant Room
- 26 CDC Admin
- 27 CDC Food Prep



PROPOSED CONCEPT DESIGN

Historic Monroe St. Entrance Rendering



The historic entrance will serve as a ceremonial entrance for events in the Gymnasium. This is made accessible with an elliptical pathway.

PROPOSED CONCEPT DESIGN

CDC Rendering



The Child Development Center has its own entrance accessed via a courtyard between the south end of the addition and the historic building.

PROPOSED CONCEPT DESIGN

Monroe St. Rendering



View of historic main entrance with new addition in foreground.

PROPOSED CONCEPT DESIGN

Playground Rendering



West Facade of Addition embraces the landscape with a an amphitheater at the end of the East-West circulation spine and playground areas integrated into the natural landscape. The existing grove of trees along the West property line are preserved.

PROPOSED CONCEPT DESIGN

Newton St. Rendering

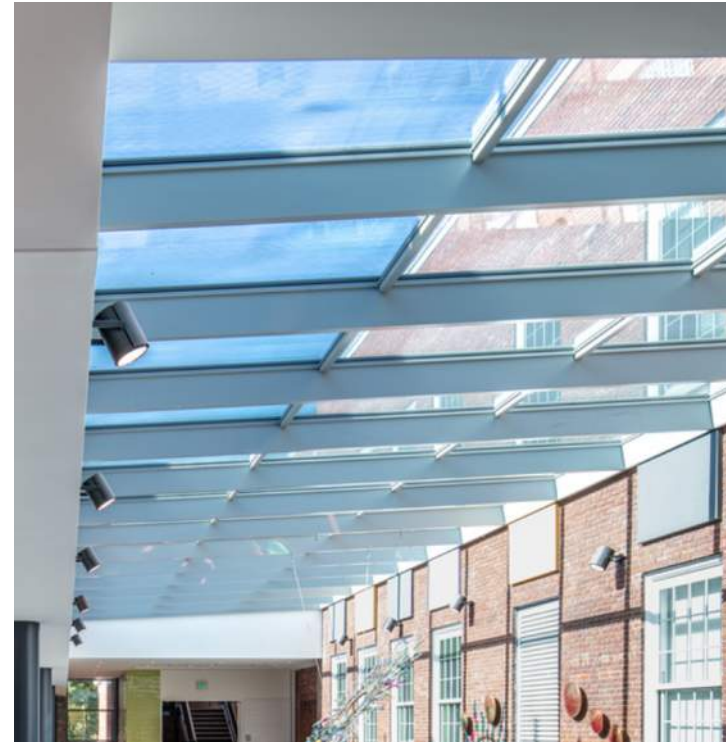


Newton Street building perspective with new addition in foreground and main school entrance beyond. The addition reinterprets the vernacular of the existing buildings in a modern expression.

PROPOSED CONCEPT DESIGN

Proposed Building Materials Palette

Prefinished Alum Metal Panel
Location: Addition

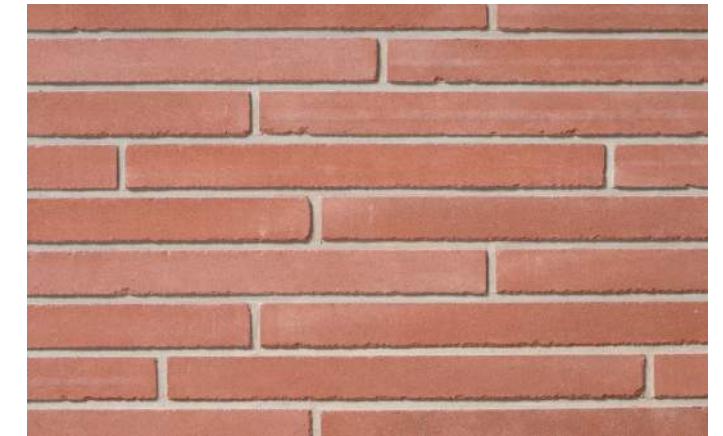


◀ **Modular Skylight**
Location: Courtyard Commons

▼ **Mass Timber**
Location: Courtyard Commons / Addition



Linear Brick
Location: Addition



Standing Seam Metal Roof
Location: Addition



Vertical Prefinished Aluminum Sun Control Louvers
Location: Addition

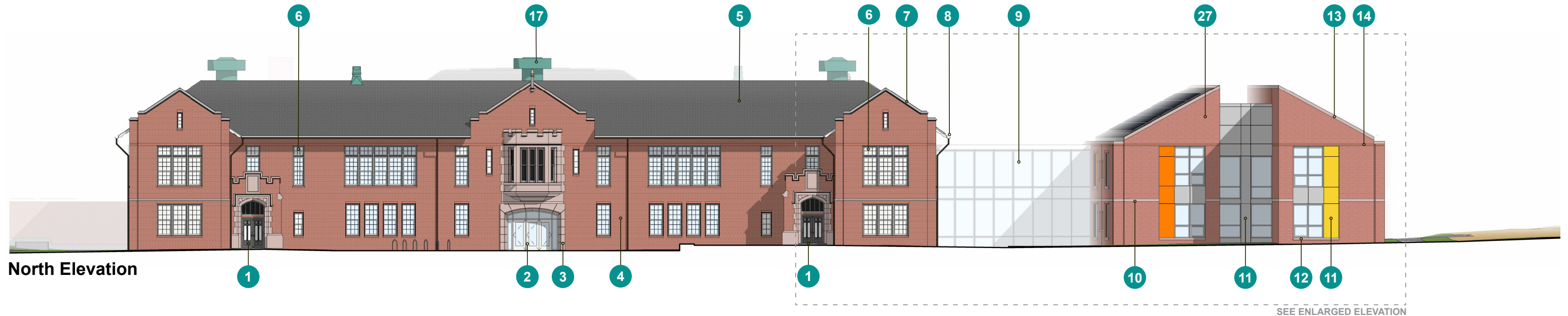


Limestone to Match Existing
Location: Existing on historic building / Addition

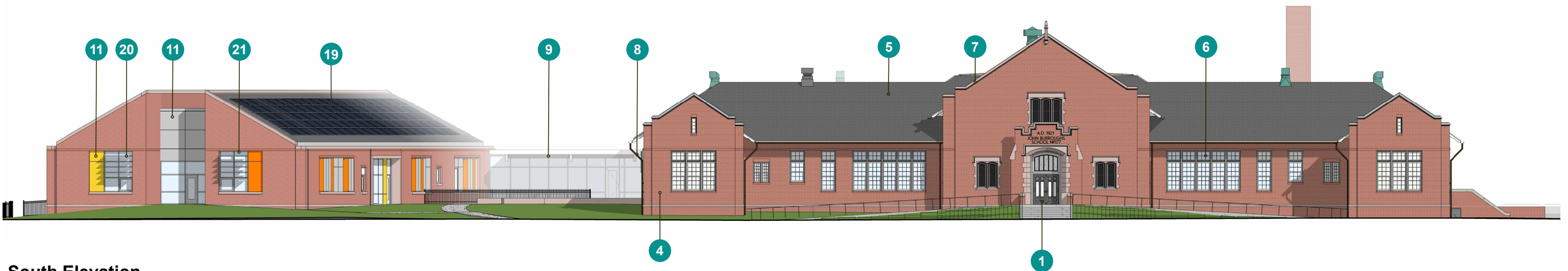


Unit Pavers
Location: Entry Plaza, Playground Plaza, Outdoor Courtyards

PROPOSED CONCEPT DESIGN Elevations



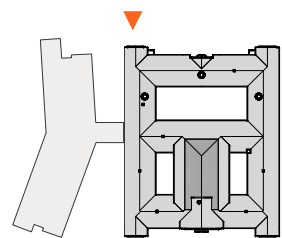
North Elevation



South Elevation

PROPOSED ELEVATION NOTES

- | | | | | | |
|---|---|----|---|----|--|
| 1 | Aluminum clad historic replica door | 10 | Limestone string course | 19 | Photovoltaic panels (future by owner) |
| 2 | Prefinished aluminum entrance doors | 11 | Prefinished alum metal panels | 20 | Sun control louvers |
| 3 | Limestone to match existing | 12 | Limestone sill | 21 | High performance aluminum glazing system |
| 4 | Historic brick walls restored - FCU openings infilled as required | 13 | Limestone coping | 22 | Prefinished standing seam roof |
| 5 | Existing synthetic slate roof to remain | 14 | Brick header course | 23 | Prefinished aluminum sun control fins |
| 6 | New aluminum replica historic windows | 15 | Limestone string course | 24 | Brick soldier course at window head |
| 7 | Limestone coping to remain | 16 | New aluminum historic replica transom lite and door frame | 25 | Extruded aluminum downspout |
| 8 | Copper downspout to remain | 17 | Historic ventilator restored as required | 26 | Limestone sill |
| 9 | Aluminum curtain wall | 18 | Limestone lining around new opening | 27 | Linear brick |



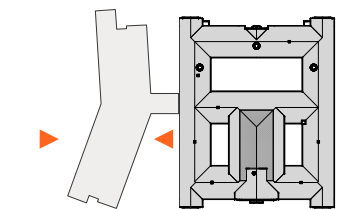
0' 8' 16' 32'
1/16" = 1'-0"

PROPOSED CONCEPT DESIGN Elevations



PROPOSED ELEVATION NOTES

- | | | | | | |
|---|---|----|---|----|--|
| 1 | Aluminum clad historic replica door | 10 | Limestone string course | 19 | Photovoltaic panels (future by owner) |
| 2 | Prefinished aluminum entrance doors | 11 | Prefinished alum metal panels | 20 | Sun control louvers |
| 3 | Limestone to match existing | 12 | Limestone sill | 21 | High performance aluminum glazing system |
| 4 | Historic brick walls restored - FCU openings infilled as required | 13 | Limestone coping | 22 | Prefinished standing seam roof |
| 5 | Existing synthetic slate roof to remain | 14 | Brick header course | 23 | Prefinished aluminum sun control fins |
| 6 | New aluminum replica historic windows | 15 | New aluminum historic replica door | 24 | Brick soldier course at window head |
| 7 | Limestone coping to remain | 16 | New aluminum historic replica transom lite and door frame | 25 | Extruded aluminum downspout |
| 8 | Copper downspout to remain | 17 | Historic ventilator restored as required | 26 | Limestone sill |
| 9 | Aluminum curtain wall | 18 | Limestone lining around new opening | 27 | Linear brick |
| | | | | 28 | Limestone string course |



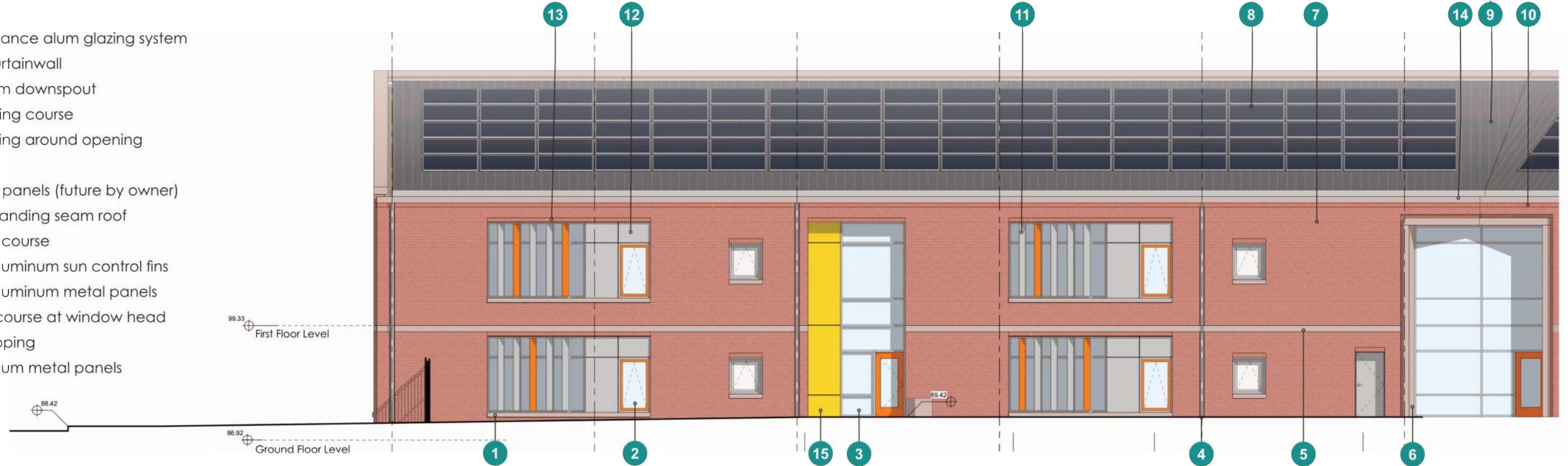
0' 8' 16' 32'
1/16" = 1'-0"

PROPOSED CONCEPT DESIGN

Enlarged Addition Elevations

PROPOSED ELEVATION NOTES

- 1 Limestone sill
- 2 High performance alum glazing system
- 3 Aluminum curtainwall
- 4 Extruded alum downspout
- 5 Limestone string course
- 6 Limestone lining around opening
- 7 Linear brick
- 8 Photovoltaic panels (future by owner)
- 9 Prefinished standing seam roof
- 10 Brick header course
- 11 Prefinished aluminum sun control fins
- 12 Prefinished aluminum metal panels
- 13 Brick soldier course at window head
- 14 Limestone coping
- 15 Prefinished alum metal panels



Enlarged West Elevation

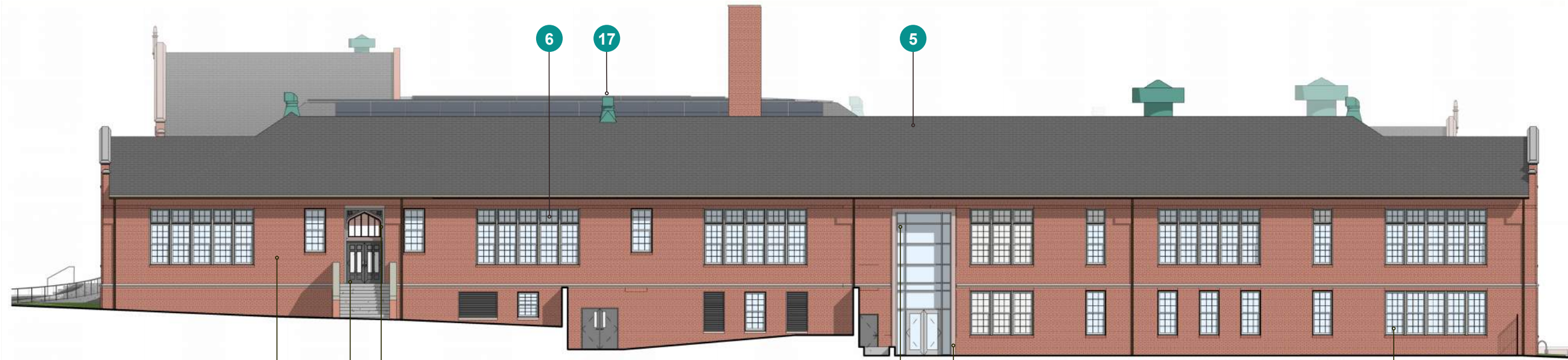


Enlarged North Elevation

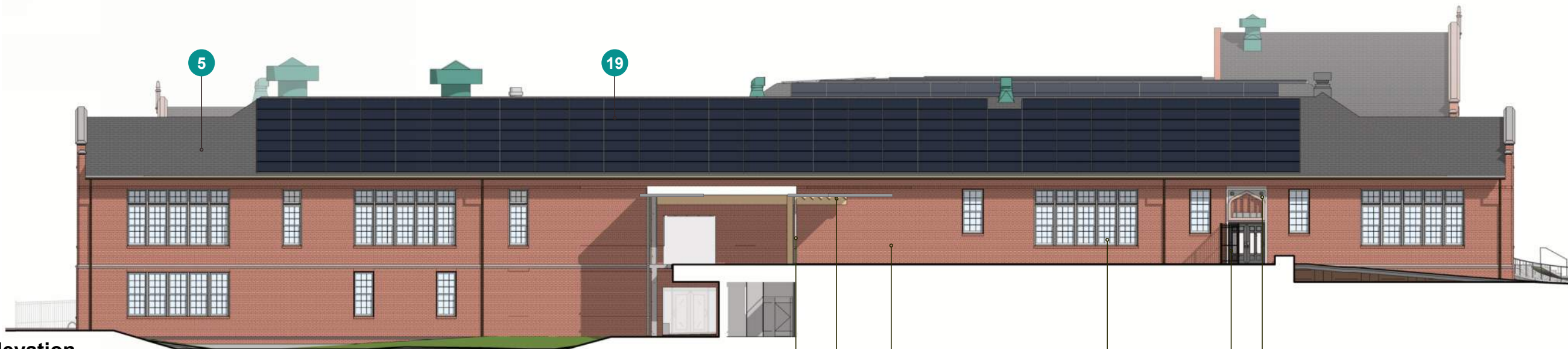
0' 8' 16' 32'
1/16" = 1'-0"

PROPOSED CONCEPT DESIGN

Elevations



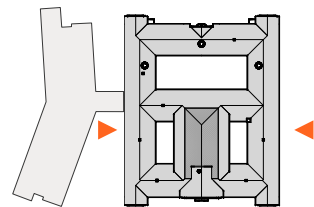
East Elevation



West Elevation

PROPOSED ELEVATION NOTES

- | | | | | | |
|---|---|----|---|----|--|
| 1 | Aluminum clad historic replica door | 10 | Limestone string course | 19 | Photovoltaic panels (future by owner) |
| 2 | Prefinished aluminum entrance doors | 11 | Prefinished alum metal panels | 20 | Sun control louvers |
| 3 | Limestone to match existing | 12 | Limestone sill | 21 | High performance aluminum glazing system |
| 4 | Historic brick walls restored - FCU openings infilled as required | 13 | Limestone coping | 22 | Prefinished standing seam roof |
| 5 | Existing synthetic slate roof to remain | 14 | Brick header course | 23 | Prefinished aluminum sun control fins |
| 6 | New aluminum replica historic windows | 15 | New aluminum historic replica door | 24 | Brick soldier course at window head |
| 7 | Limestone coping to remain | 16 | New aluminum historic replica transom lite and door frame | 25 | Extruded aluminum downspout |
| 8 | Copper downspout to remain | 17 | Historic ventilator restored as required | 26 | Limestone sill |
| 9 | Aluminum curtain wall | 18 | Limestone lining around new opening | 27 | Linear brick |
| | | | | 28 | Limestone string course |

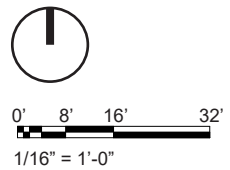
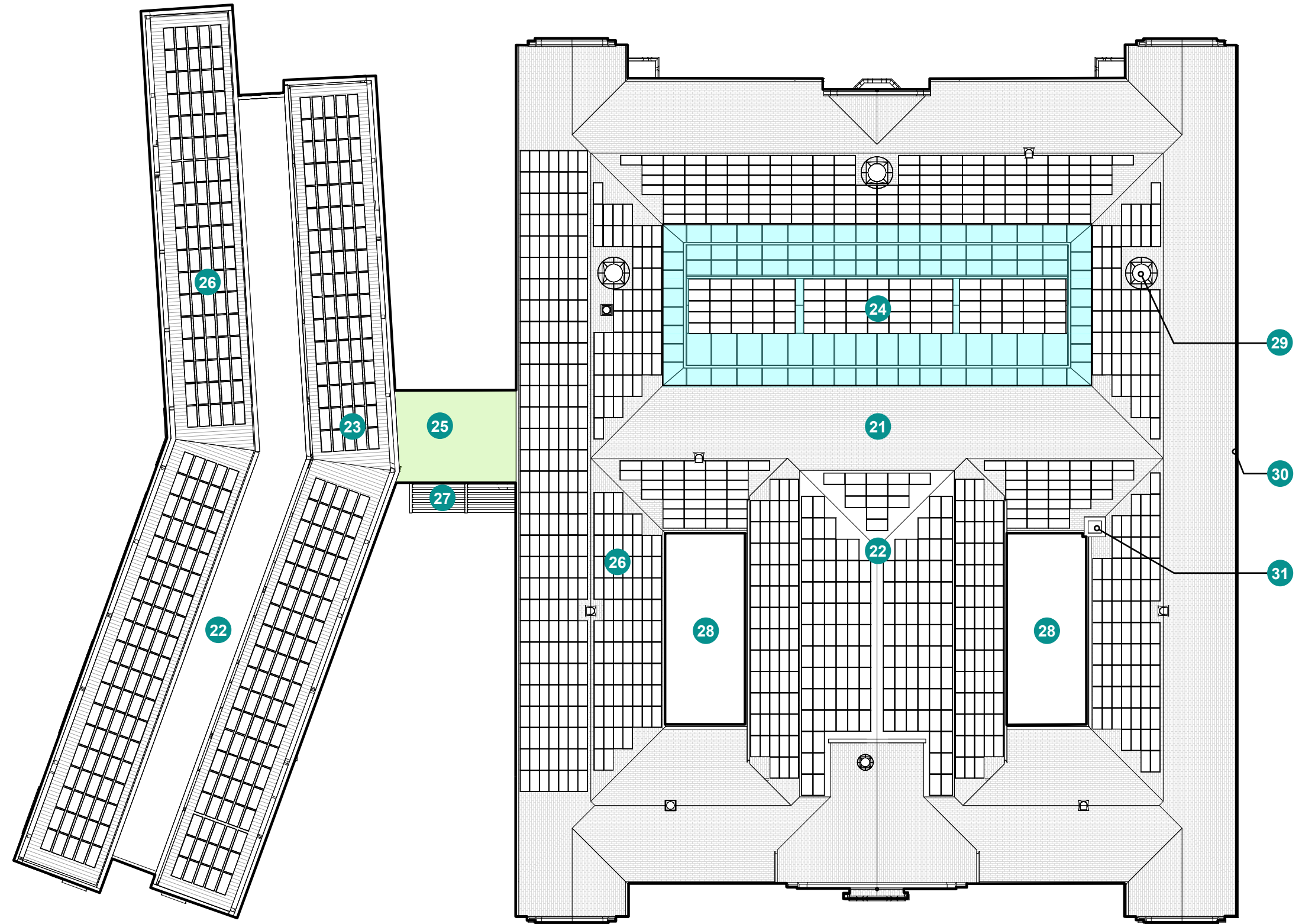


0' 8' 16' 32'
1/16" = 1'-0"

PROPOSED CONCEPT DESIGN

Roof Plan

- 21 Existing Slate Roof
- 22 PVC Flat Roof
- 23 Standing Seam Metal Roof
- 24 Skylight
- 25 Green Roof
- 26 Photovoltaic Panels
- 27 Shading Louvers
- 28 Open to Below
- 29 Mechanical Ventilator
- 30 Copper Gutter
- 31 Brick Chimney



PROPOSED CONCEPT DESIGN

Programmatic Imagery



PROPOSED CONCEPT DESIGN

Plant Imagery



Amelanchier canadensis
Serviceberry, Rosaceae family, native to Eastern North America, Zone 4-8, height 25-30', spread 15-20', bloom from April to May, white flower, full sun to part shade, medium to low maintenance, showy flowers, good fall color, attract birds, edible fruits, tolerate heavy soil



Buxus sempervirens
Common box, Buxaceae family, broadleaf evergreen shrub, native to southern Europe and western Asia, Zone 5-8, height 5-15', spread 5-15', bloom from April to May, greenish-cream insignificant flower, full sun to part shade, medium water requirement, medium maintenance, winter interest, tolerate rabbit and deer



Magnolia stellata
Star magnolia, Magnoliaceae family, native to Japan, Zone 4-8, height 15-20', spread 10-15', bloom in March, white flower, full sun to part shade, medium maintenance, showy and fragrant flowers, tolerate clay soil



Juniperus conferta 'Emerald Sea'
Shore juniper, Cupressaceae family, evergreen shrub, prostrate habit, Zone 6-11, height 12-18", spread 6-8', bloom from April to May, white flower, full sun to part shade, low maintenance



Magnolia virginiana
Sweetbay Magnolia, Magnoliaceae family, native to eastern United States, Zone 5-10, height 10-35', spread 10-35', bloom from May to June, white flower, full sun to part shade, low maintenance, showy and fragrant flowers, showy fruit, tolerate clay, wet soil, and air pollution



Iris versicolor
Blue flag, Iridaceae family, herbaceous perennial, Zone 3-9, height 2-5', spread 2-2.5', bloom from May to June, violet blue flower, full sun to part shade, water plant, medium to low maintenance, tolerate wet soils



Juncus effusus
Rush, Juncaceae family, native to Eurasia, North America, Australia and New Zealand, Zone 4-9, water plant, height 2-4', spread 2-4', bloom from June to August, yellowish-greenish showy flower, full sun, medium to low maintenance, wet soils



Aster oblongifolius 'Raydons Favorite'
Aromatic aster, Asteraceae family, herbaceous perennial, Zone 3-8, height 2-3', spread 2-3', bloom from August to September, blue-purple flower, full sun, medium maintenance, showy, attract birds and butterflies, tolerate heavy soil



Baptisia sphaerocarpa 'Screamin Yellow'
Yellow wild indigo, Fabaceae family, herbaceous perennial, Zone 5-8, height 2-3', spread 2-5', bloom from April to May, yellow flower, full sun to part shade, medium to low maintenance, showy, attract butterflies, tolerate dry soil



Bouteloua gracilis 'Blonde Ambition', Blue gramma, Poaceae family, ornamental grass, Zone 3-10, height 0.75-1.5', spread 0.75-1.5', bloom from June to August, dry to medium, full sun, low maintenance, tolerate dry and shallow soil



Carex 'Ice Dance'
Sedge, Cyperaceae family, herbaceous perennial, Zone 5-9, height 1', spread 1-2', bloom from April to July, full sun to part shade, medium to low maintenance, leaf attractive, tolerate heavy soil



Eragrostis spectabilis
Purple lovegrass, Poaceae family, native to North America, Zone 5-9, height 1-5', spread 1-2', bloom from July to August, yellow soft redish purple flower, full sun, low maintenance, tolerate drought



Hakonechloa macra 'Albovariegata'
Hakone grass, Poaceae family, Zone 509, height 1-1.5', spread 1-1.5', bloom from July to August, airy flower, showy leaf turning pink in the tip in late summer, part shade, low maintenance, tolerate heavy shade



Pycnanthemum muticum
Blunt mountainmint, Lamiaceae family, herbaceous perennial, Zone 4-8, height 1-3', spread 1-3', bloom from July to September, grey flower, full sun to part shade, low maintenance



Solidago rugosa 'Fireworks'
Golden rod, Asteraceae family, herbaceous perennial, Zone 4-8, height 2.5-3', spread 2.5-3', bloom from September to October, yellow showy flower, full sun, low maintenance, attract butterfly, tolerate heavy soil



Sporobolus heterolepis
Prairie dropseed, Poaceae family, native to North America, Zone 3-9, height 2-3', spread 2-3', bloom from August to October, pink and brown lined bloom, fragrant, full sun, low maintenance, good fall color, attract birds, winter interest, tolerate dry soil



Stachys monieri 'Hummelo'
Betony, Lamiaceae family, herbaceous perennial, Zone 4-8, height 1.5-2', spread 1.5-2', bloom from July to September, rose lavender showy flower, full sun, medium to low maintenance



Vernonia lettermannii 'Iron Butterfly'
Ironweed, Asteraceae family, evergreen shrub, Zone 4-9, height 2-3', spread 2-3', bloom from July to August, purple flower, full sun, low maintenance, attract humming birds and butterflies, drought tolerant

PROPOSED CONCEPT DESIGN

Planting Plan

