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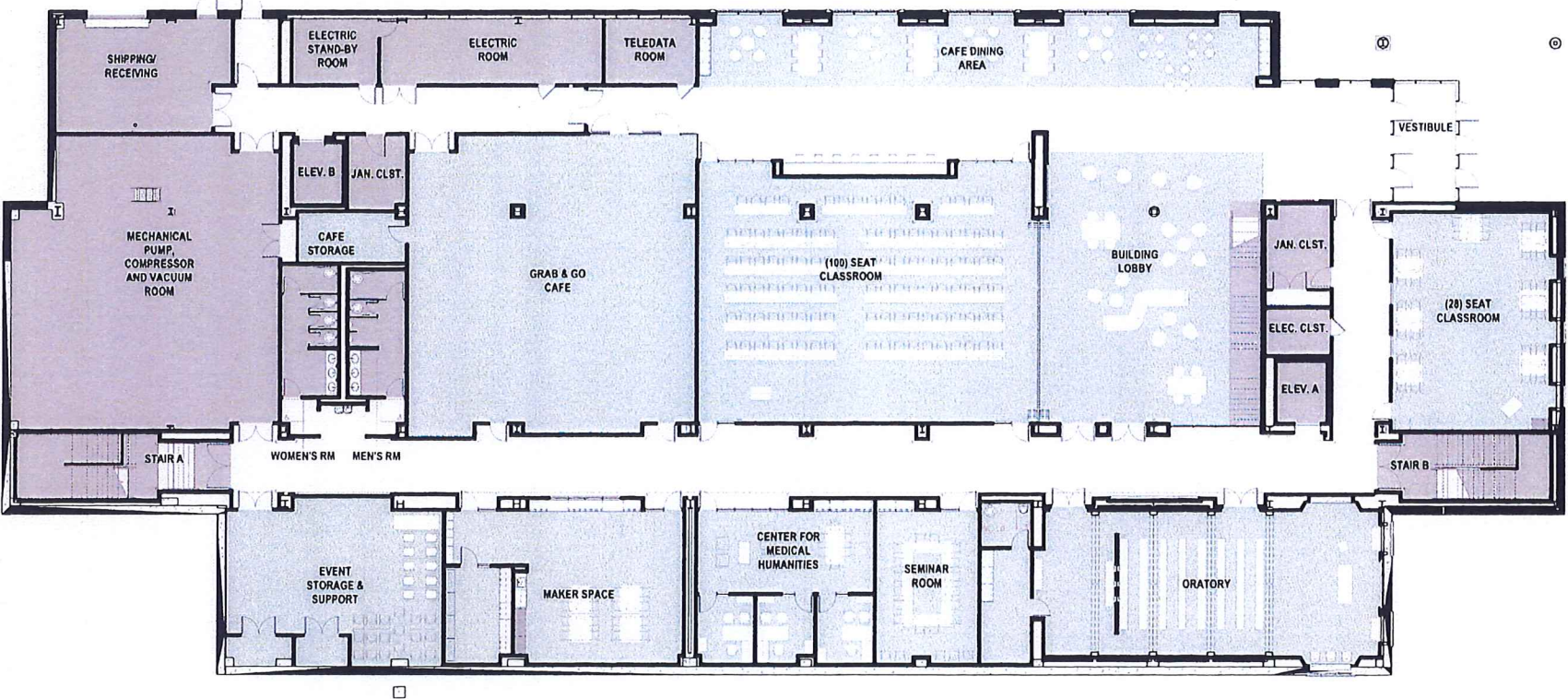


PROVIDENCE
COLLEGE

Providence College

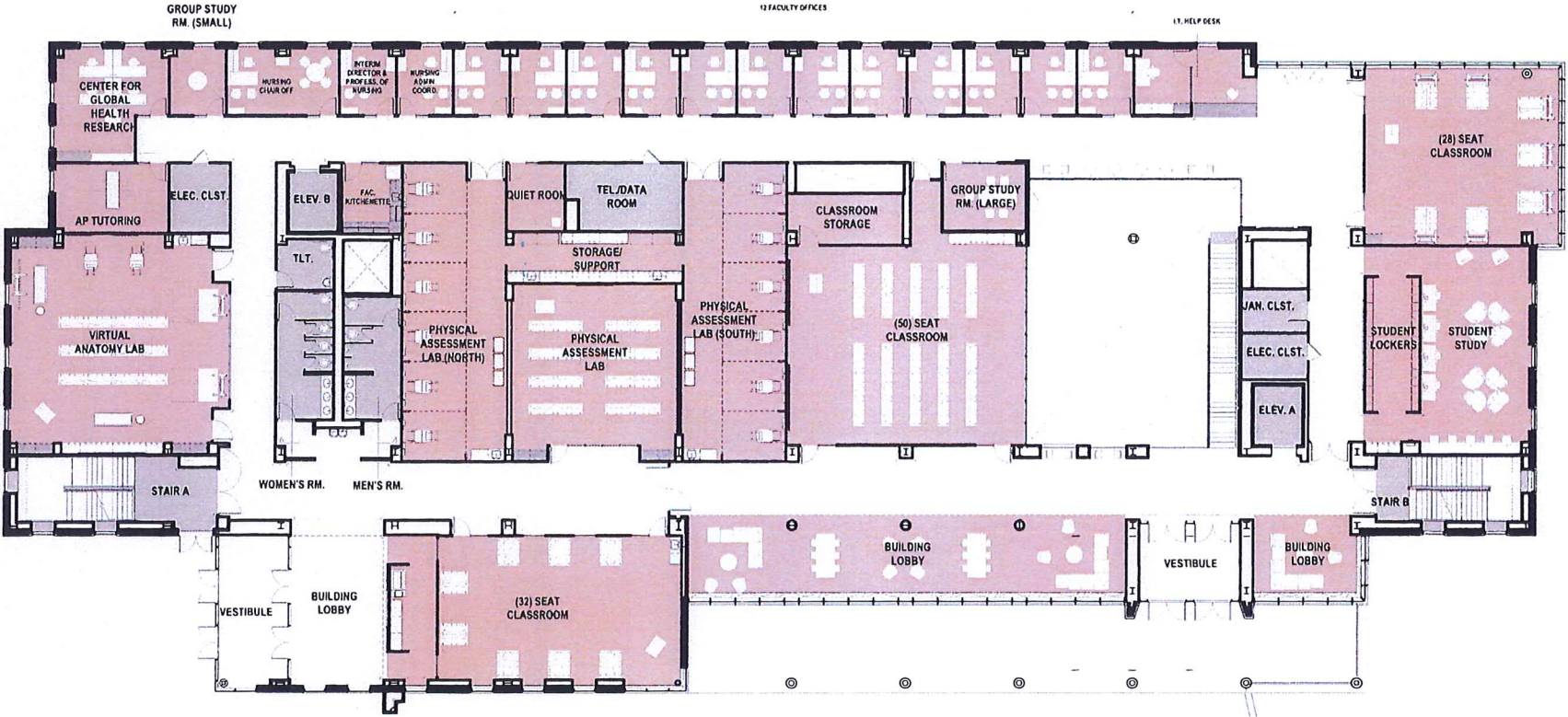
School of Nursing & Health Sciences

Floor Plan: Lower Level



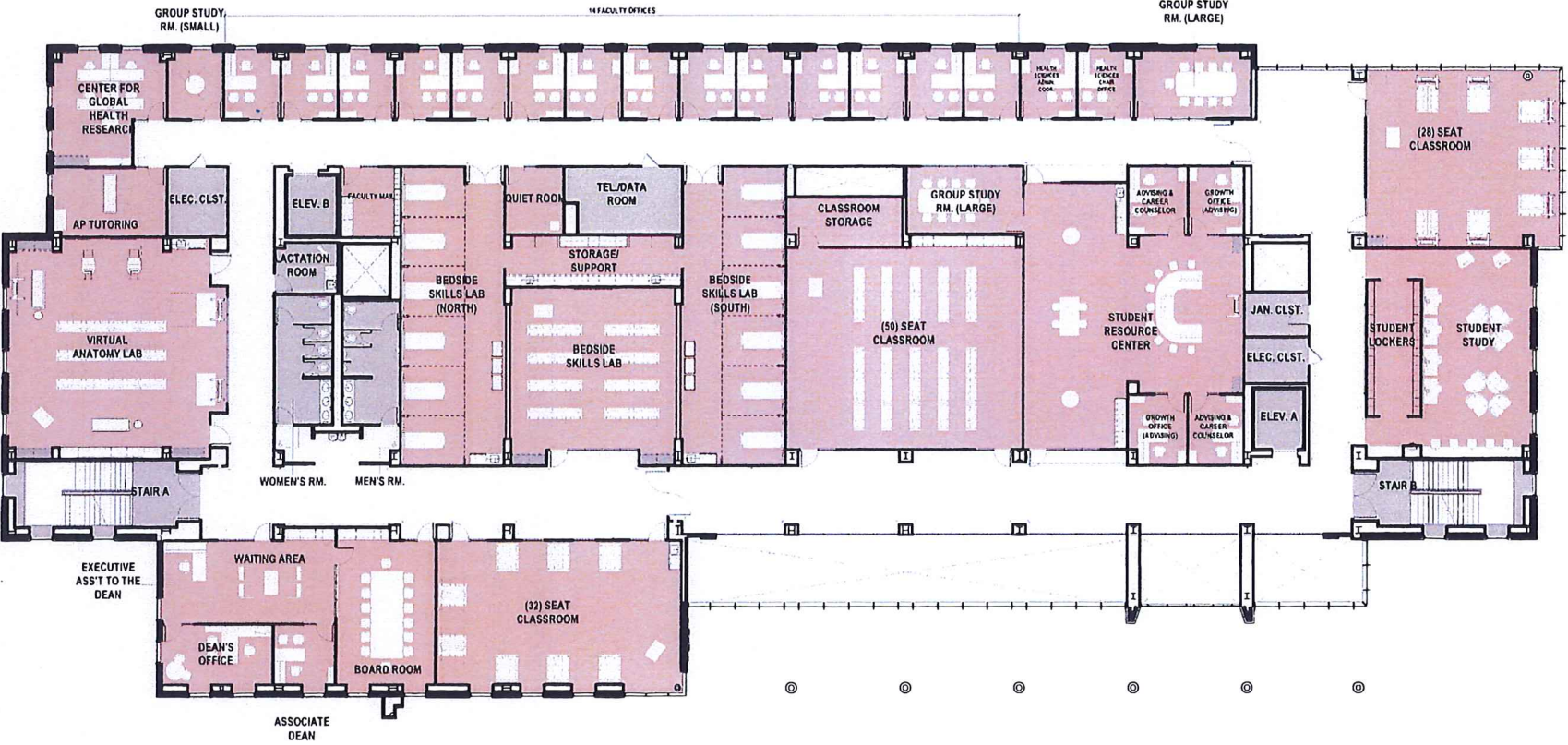
- CAMPUS RESOURCES
- NURSING/ HEALTH SCIENCES
- BUILDING SUPPORT
- SHELLLED SPACE

Floor Plan: First Floor



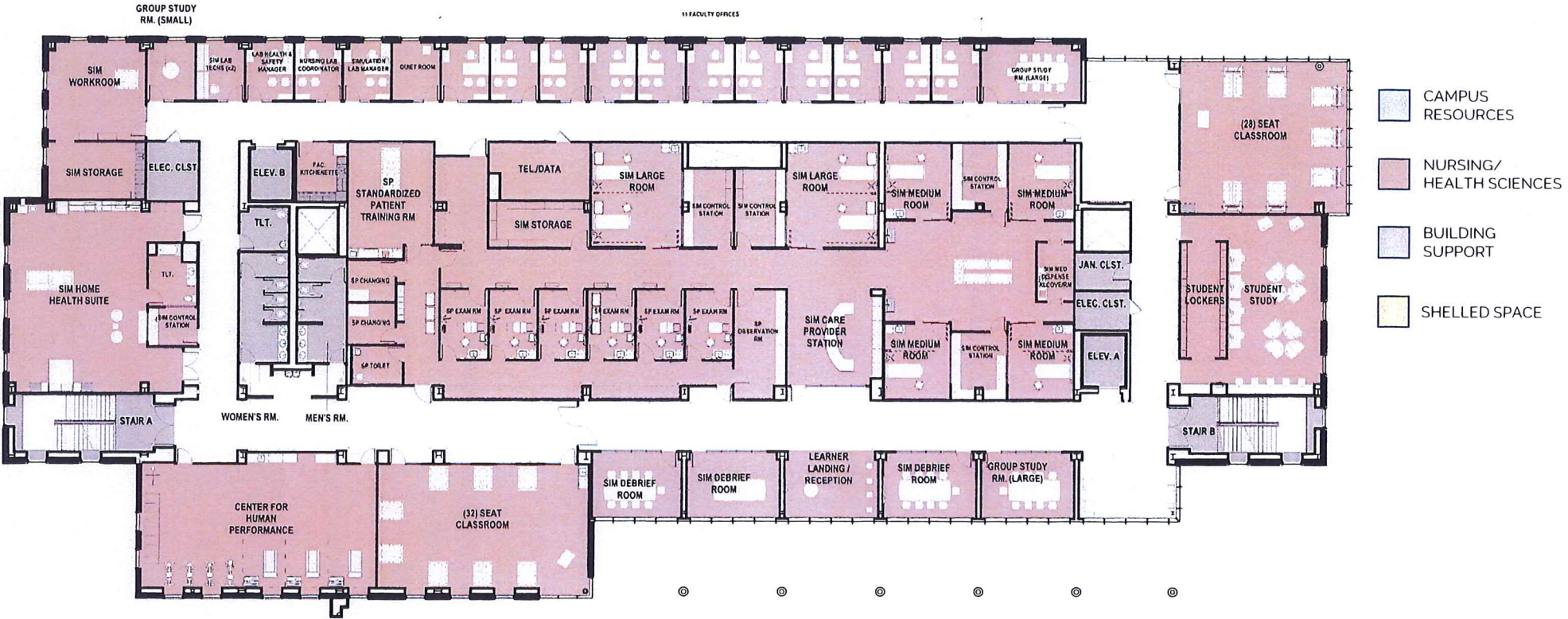
- CAMPUS RESOURCES
- NURSING/ HEALTH SCIENCES
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- SHELLED SPACE

Floor Plan: Second Floor

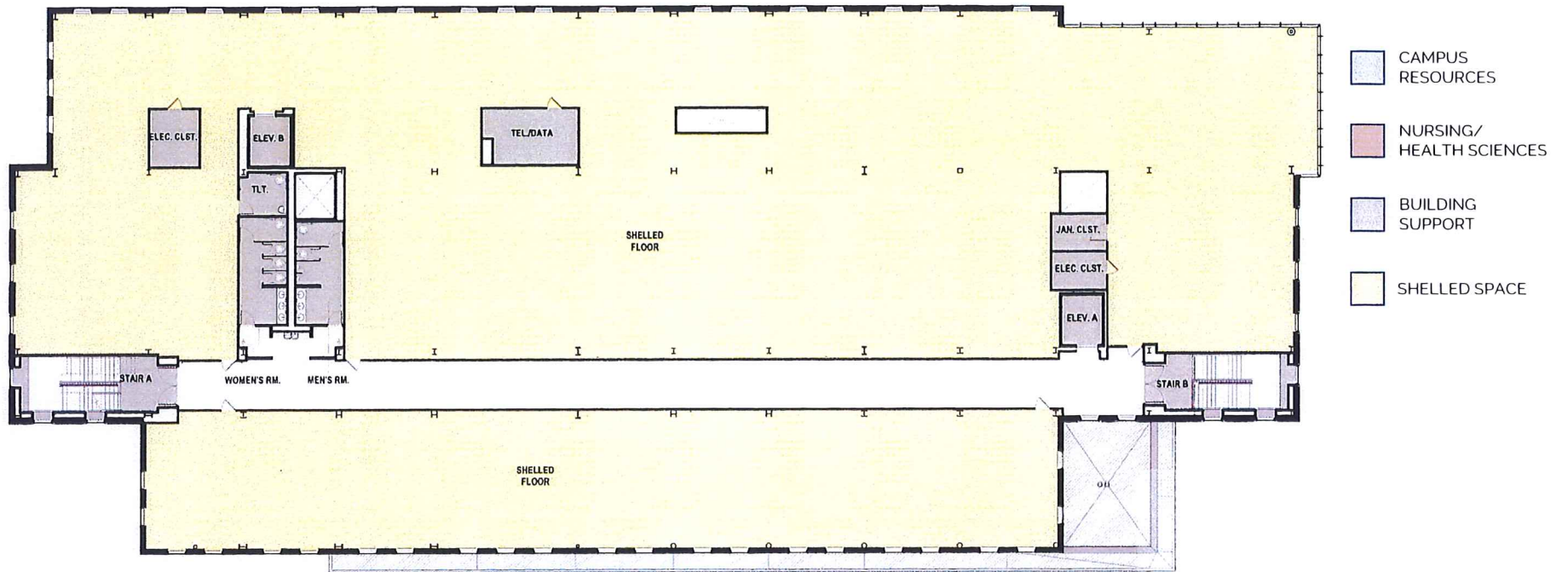


- CAMPUS RESOURCES
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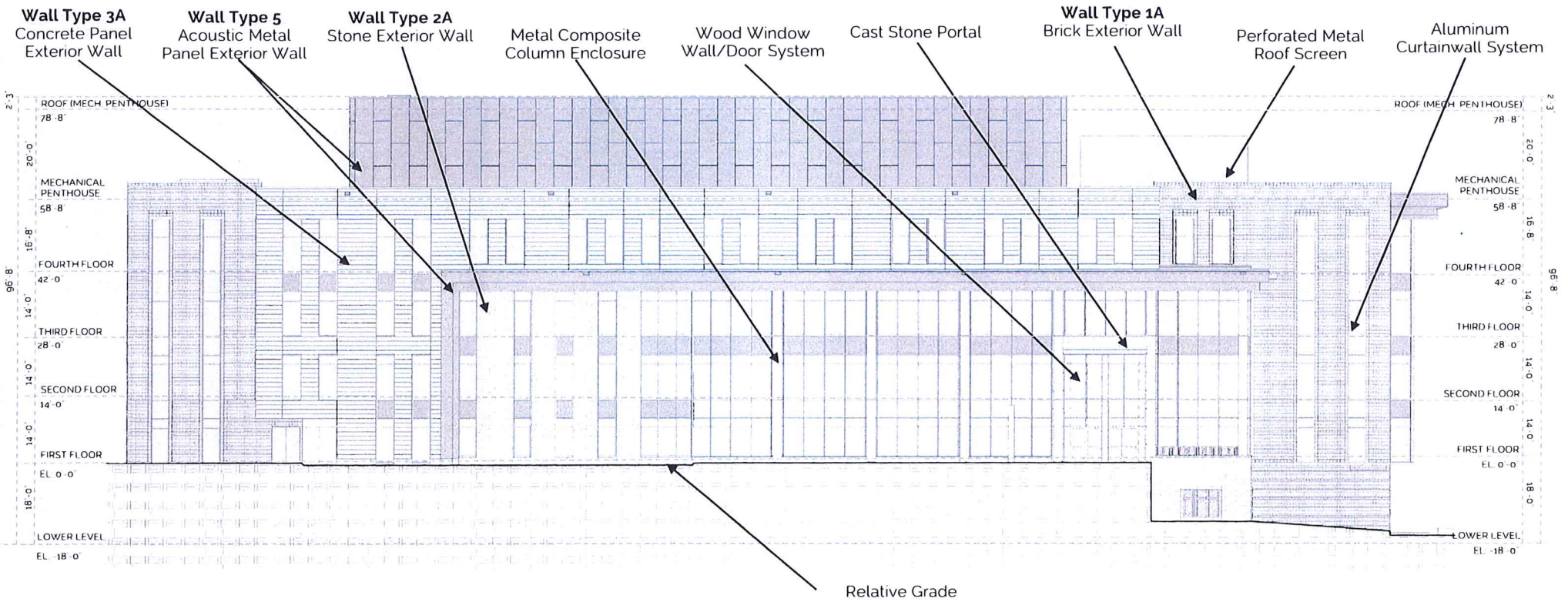
Floor Plan: Third Floor



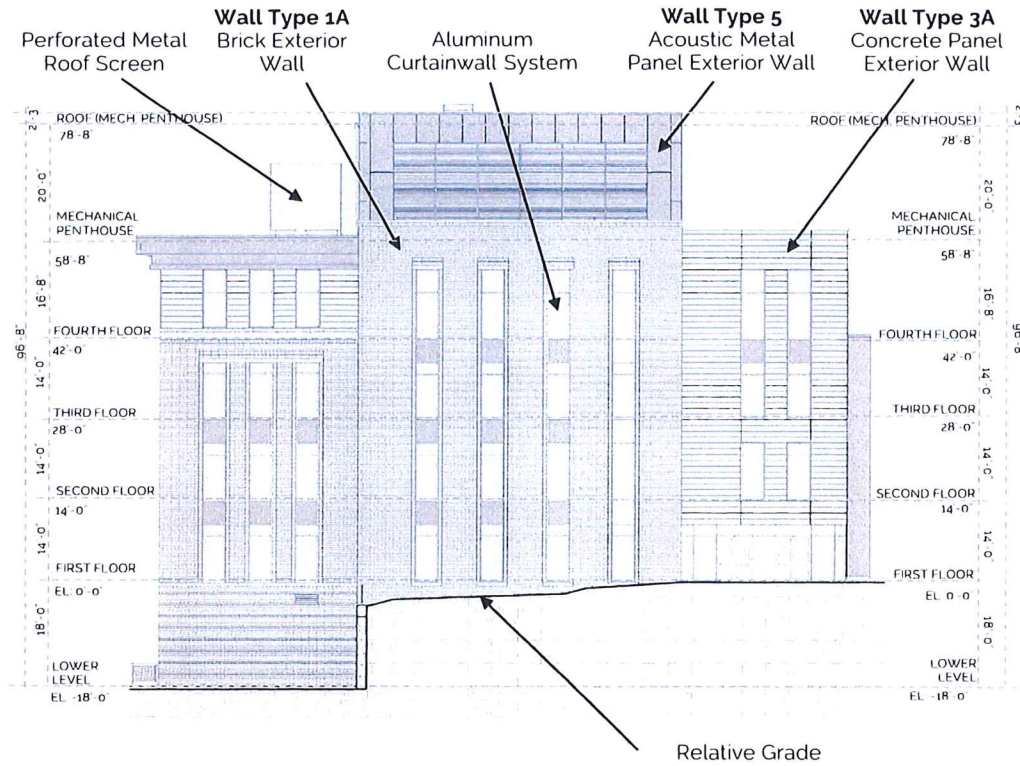
Floor Plan: Fourth Floor



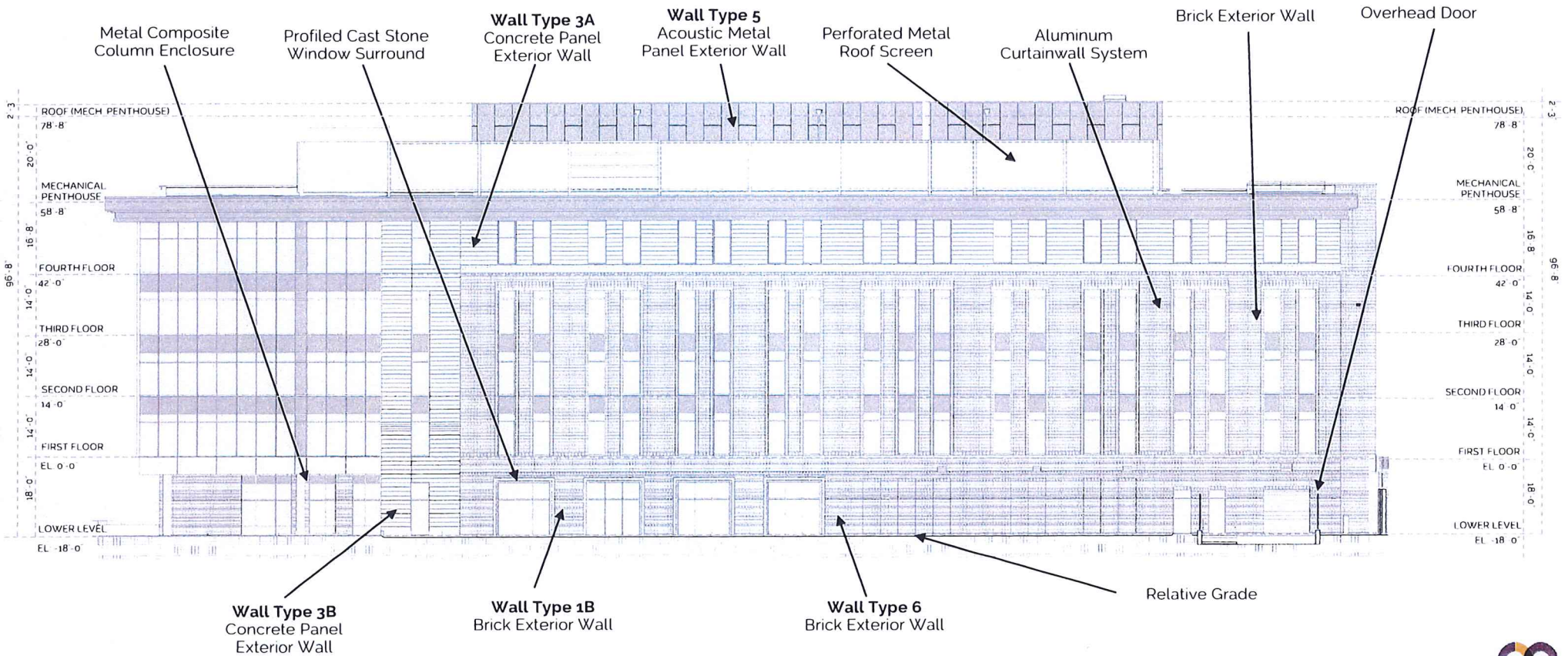
Elevation: West



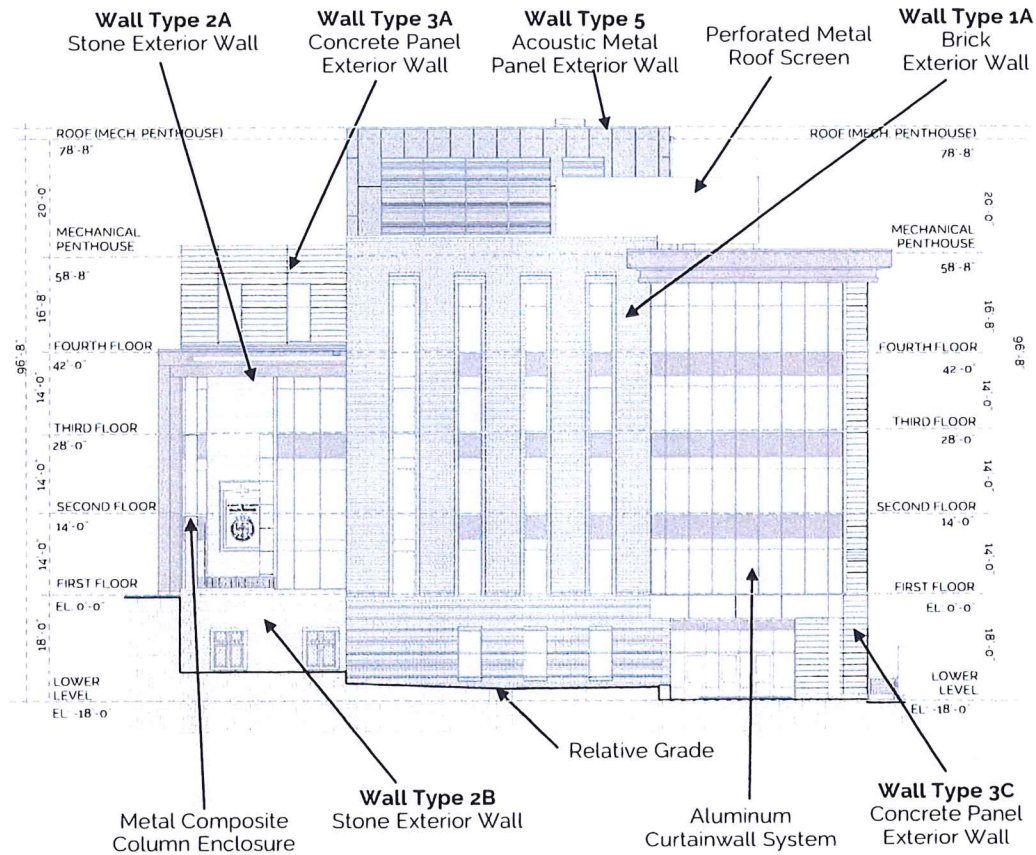
Elevation: North



Elevation: East



Elevation: South



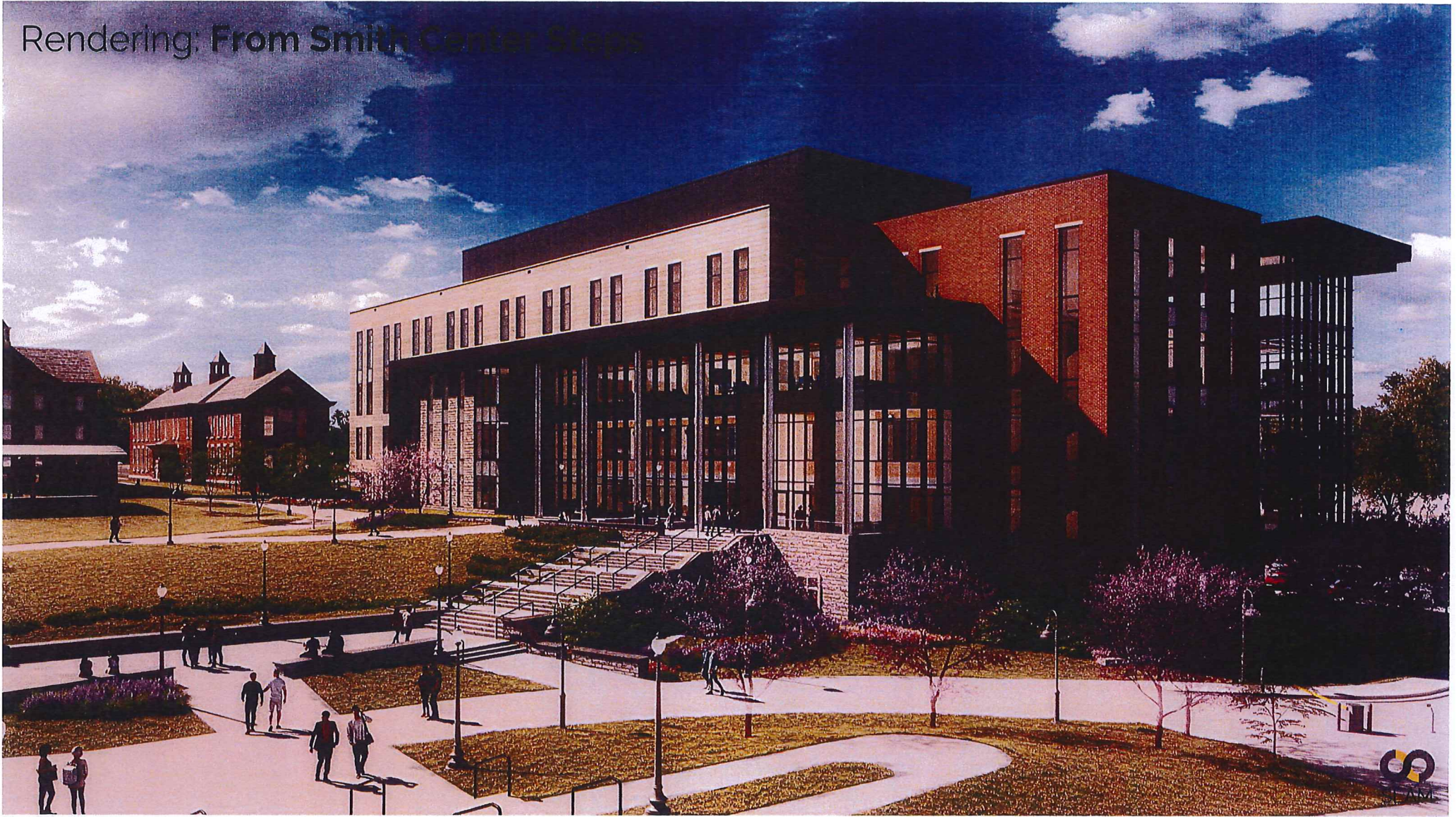
Arial Rendering



Rendering: Walkway coming from Shanley Hall



Rendering: From Smith Center Steps



View from Easton Street Guardhouse





TRANSFORMATIVE OPPORTUNITIES

Through working with Providence College following vision, goals and objectives were identified and were the foundation for the design of the Nursing and Health Sciences building at Providence College:

1. *Celebrate the integration of **Health Sciences Education** with PC's strong **Catholic and Dominican Liberal Arts Education***
2. *Consider this building as part of a **network of resources** across campus to **encourage connectivity** and collaboration **across disciplines***
3. *Create a **State of the Art** facility that provides necessary learning environments for the **next generation of health care providers**.*

The facility has been designed as a five-story building with the lowest level being partially submerged below grade and mechanical penthouse. The building will be a mix of brick, high performance concrete panels, precast concrete accents, metal panel and glass. The scale has been modulated with the use of the above-mentioned materials including a three-story loggia along the re-envisioned campus quad. The building has been designed with a more modern and transparent design facing the re-envisioned campus quad and campus and a contextual side facing the city. This two sided approach will allow the building to present a welcoming and transparent image to the campus while displaying a sympathetic campus image to the city.

The new building is planned to be approximately 147,556 gross square feet (GSF), providing about 60,600 net square feet (NSF) of defined classroom, lab, immersive learning, work, and collaboration space over four floors. A fifth shelled floor provides opportunity for future program growth or other campus initiatives. The proposed program provides transformative opportunities for programs in the school of Nursing and Health Sciences as well as the College.

The new building will be located on the existing site of Fennell Hall. By redeveloping the Fennell Hall site, we will be able to bring new development to the east side of campus and transform the existing campus quad. This site will also allow the college to replace existing aged infrastructure serving several other existing buildings on east campus. This site also provides a strong connection to the Eaton Street gate, allowing for easy vehicular access for students as they perform their clinical rotations in local area hospitals.

PROGRAM SUMMARY

The space types represented in the new building include:

Classrooms/Instructional

To support the health sciences disciplines as well as provide additional classrooms to the campus offerings overall, the new building will contain a 100-seat classroom, two 50 seat classrooms, seven 28-32 seat classrooms, and a 16-seat seminar room.

Teaching Labs

Highly specific teaching spaces in the building are designated as Teaching Labs and include the Virtual Anatomy Lab, Bedside Skills Lab, and Physical Assessment Lab. These spaces accommodate specific equipment, acoustic settings, power/data, structural, and utility requirements specific to the curricular demands of the health sciences programs.

Immersive Learning/Simulation

The full continuum of care is represented in immersive learning spaces including outpatient, inpatient and home health environments.

Anatomy Lab and AP Tutoring

The anatomy lab and adjacent support space is sized to accommodate groups of 24 learners.

Student Life/Common

Breakout seating and group study spaces are distributed throughout the building to provide spaces for students to cross paths and develop interprofessional synergies outside the classroom.

Research and Development

A Maker Space, located on the lower level, provides space for innovation and problem-solving. This space will also be used for teaching casting and splinting.

Office/Administration

Office space for Nursing and Health Sciences faculty is located on the first, second, and third floors and is distributed by discipline. The Dean's Suite accommodates office space for the Dean and Associate Dean. Three conference rooms and touchdown/huddle space support collaboration.

Exterior Design Description

The exterior palette for the design of the new Nursing and Health Sciences Building will respect the vision and values of Providence College and reflect the mission of the health science and academic environment. The design team has chosen all materials to achieve quality, durability, and ease of maintenance.

Exterior Enclosure

The below descriptions are for the major wall assembly systems found on the building

Wall Type 1A: (Masonry Veneer Wall Assembly)

- Brick masonry veneer
- Air cavity
- 4" cavity insulation
- Engineered masonry veneer ties @ 16" O.C. horizontal and vertical— anchor to cold-formed metal framing
- Fluid applied membrane air and vapor barrier
- 5/8" gypsum sheathing
- 6" cold-formed metal stud framing at 16" O.C.
- 5/8" interior gypsum board
- Prefinished metal roof edge coping

Wall Type 1B: (Masonry Veneer Wall Assembly)

- Brick masonry veneer
- Air cavity
- 4" cavity insulation
- Engineered masonry veneer ties @ 16" O.C. horizontal and vertical— anchor to cold-formed metal framing
- Fluid applied membrane air and vapor barrier
- 5/8" gypsum sheathing

- 8" cold-formed metal stud framing at 16" O.C.
- 5/8" interior gypsum board
- Prefinished metal roof edge coping

• **Wall Type 2A: (Granite Veneer Wall Assembly)**

- 3 5/8" Split faced granite veneer
- Grout cavity full—1" minimum depth
- Stone veneer anchor system with ties @16" O.C. horizontal and vertical
- Geotextile drainage mat
- 4" XPS rigid insulation—fully adhered, foam gaps at edges, typical 2 layers of 2" thick panels—staggered joints
- Fluid applied membrane air and vapor barrier—seal at all penetrations per MFR requirements
- 5/8" Gypsum sheathing
- 6" Cold formed metal stud framing at 16" O.C.
- 5/8" Gypsum sheathing

Wall Type 2B: (Granite Veneer Wall Assembly)

- 3 5/8" Split faced granite veneer
- Grout cavity full—1" minimum depth
- Stone veneer anchor system with ties @16" O.C. horizontal and vertical
- Geotextile drainage mat
- 4" XPS rigid insulation—fully adhered, foam gaps at edges, typical 2 layers of 2" thick panels—staggered joints
- Fluid applied membrane air and vapor barrier—seal at all penetrations per MFR requirements
- 5/8" Gypsum sheathing
- 8" Cold formed metal stud framing at 16" O.C.
- 5/8" Gypsum sheathing

Wall Type 3A: (High Performance Concrete Panel Wall Assembly)

- High performance concrete panel—fastened to hat track with exposed fasteners
- Visual barrier mat between vertical hat track and panels
- Vertical hat track—paint flat black exposed to view
- Vented air space cavity
- Horizontal L-Grit
- 5" Mineral wool insulation (R-21.5) - 2 layers consisting of a 2" and 3" thick panel—staggered joints
- Fluid applied membrane air and vapor barrier
- Thermally broken wall bracket & spacer
- 5/8" Sheathing
- 6" cold-formed metal stud framing at 16" O.C.
- 5/8" Gypsum board

Wall Type 3B: (High Performance Concrete Panel Wall Assembly)

- High performance concrete panel—fastened to hat track with exposed fasteners
- Visual barrier mat between vertical hat track and panels
- Vertical hat track—paint flat black exposed to view
- Vented air space cavity
- Horizontal L-Grit
- 5" Mineral wool insulation (R-21.5) - 2 layers consisting of a 2" and 3" thick panel—staggered joints
- Fluid applied membrane air and vapor barrier

- Thermally broken wall bracket & spacer
- 5/8" Sheathing
- 8" cold-formed metal stud framing at 16" O.C.
- 5/8" Gypsum board

Wall Type 3C: (High Performance Concrete Panel Wall Assembly)

- High performance concrete panel—fastened to hat track with exposed fasteners
- Visual barrier mat between vertical hat track and panels
- Vertical hat track—paint flat black exposed to view
- Vented air space cavity
- Horizontal L-Grit
- 5" Mineral wool insulation (R-21.5) - 2 layers consisting of a 2" and 3" thick panel—staggered joints
- Fluid applied membrane air and vapor barrier
- Thermally broken wall bracket & spacer
- Concrete backup

Wall Type 5: (Metal Composite Wall Panel)

- Metal composite material wall panel system - fastened to hat-channels
- Air / ventilation cavity
- 1" cold-formed metal hat-channels (vertical)
- 5" semi-rigid board insulation
- 5" cold-formed metal "Z" girt (horizontal) fastened to cold-formed metal studs
- Fluid applied membrane air and vapor barrier
- 5/8" gypsum sheathing
- 6" cold formed metal stud framing at 16" O.C.
- 5/8" interior gypsum board
- Prefinished metal coping to match metal panel

Wall Type 6: (Masonry Veneer Wall Assembly)

- Brick masonry veneer with special shapes & lipped bricks @ lintels & relieving angles
- Air cavity
- 4" XPS rigid insulation—fully adhered, foam gaps at edges, typical 2 layers of 2" thick panels—staggered joints
- Engineered masonry veneer ties @ 16" O.C. horizontal and vertical— anchor to cold-formed metal framing
- Fluid applied membrane air and vapor barrier
- Concrete backup

Wall Type 7: (Roofing/ Cold -formed metal framing Wall Assembly)

- EPDM Roofing membrane
- 5/8" Gypsum parapet sheathing
- 4" Polyiso insulation
- Fluid applied membrane air and vapor barrier
- 5/8" Gypsum Sheathing
- 6" cold formed metal stud framing at 16" O.C.
- Spray foam insulation
- 5/8" Gypsum sheathing

Curtain Wall System: Thermally-Broken Captured System

- Mullion Size: 2-1/2" face width x system depth required per engineering
- Color: High-performance organic (two coats)
- Glazing: Insulated glazing units with Low-E coating
 - A. Clear vision glazing
 - B. Spandrel System at floor level locations
 - C. In-fill metal panel

Extruded Aluminum Louver

- 6" deep aluminum louver
- Color: To match adjacent construction

Roofing System: Membrane Roofing

- Typical Membrane Roofing System: Nonreinforced, 60 mils thick
- Cover board: Cellulosic-fiber insulation board
- Tapered Insulation: 5" (R-30) polyisocyanurate board roofing insulation
- Fluid applied membrane air and vapor barrier and gypsum sheathing on metal roof deck

Doors: Main Entrances

- Thermally broken aluminum entrance system with insulated glass lites
- Color to match exterior curtain wall system

Doors: Service Doors

- Insulated hollow metal doors and frames
- Color to match adjacent construction

Parking and Building site:

The building site is highlighted on the far eastern part of the campus.

With the construction of Shanley Hall and the proposed building site for the new School of Nursing and Health Sciences, there was a need to create additional parking on campus as these building footprints necessitated the elimination of spaces on those particular sites. As identified (1, 2, 3, 4, 5), these parking lots will add an additional 48 spaces to the campus inventory.

