

STEIDLE BUILDING RENEWAL PROJECT

University Park, Pennsylvania

Project Overview

Size:

100,000 Square Feet

Height:

5 Stories

Occupancy Type:

Mixed Use Facility

Delivery Method:

Const. Manager At Risk

Project Budget:

\$52 million

Project Timeline:

June 2014 – June 2016



Rendering courtesy of Mascaro Construction Co.

Project Team

Owner:

Penn State University

Occupant:

Material Sciences and
Engineering Department

Architect:

EYP Architects &
Engineers

Construction Manager:

Mascaro Construction Co.

Architecture:

Existing Building

- ◆ Beaux-Arts style exterior
- ◆ Renovated lab and office spaces

Central Wing

- ◆ Houses an 80-seat lecture hall, computer lab and three research labs
- ◆ Glass-and-Limestone Curtain Wall on the South Side

Electrical:

- ◆ 4000 Amp Main-Tie-Main Switch-gear
- ◆ Three separate electrical systems:
 - ◆ Emergency Stand-By Power
 - ◆ Low Voltage Power (120/208V)
 - ◆ High Voltage Power (277/480V)
- ◆ Localized panelboards for power distribution

Structural:

Existing Building

- ◆ Steel column and concrete slab interior frame
- ◆ Steel trusses and girders which supports new TPO roofing system

Central Wing

- ◆ Concrete Structure utilizing:
 - ◆ Post-Tensioned Beams
 - ◆ Flat Plate Slabs
 - ◆ One-way Beam System

Mechanical:

- ◆ 100% Outside Air System
 - ◆ Two 70,000 CFM AHU's
 - ◆ Two 65,000 CFM EAHU's
 - ◆ Serviced by a variety of Re-heat Coils, Fan Coil Units, and Terminal Boxes.
- ◆ Specialized Portable Exhaust (PEX) Extractors
 - ◆ Used for dedicated equipment and bench-work exhaust