

THE PENNSYLVANIA STATE UNIVERSITY CHEMISTRY BUILDING UNIVERSITY PARK, PA

ADAM J. SENK
MECHANICAL OPTION

[WWW.ARCHE.PSU.EDU/THESIS/EPORTFOLIO/
CURRENT/PORTFOLIOS/AJS394/](http://WWW.ARCHE.PSU.EDU/THESIS/EPORTFOLIO/CURRENT/PORTFOLIOS/AJS394/)

BUILDING: 5 OCCUPIED STORIES, BASEMENT, MECHANICAL
PENTHOUSE

SIZE: 181,890 SQ FT

COST: \$62.5 MILLION TOTAL, \$57.5 MILLION STATE FUNDED,
\$5 MILLION PRIVATELY FUNDED

COMPLETION: *PHASE I* STARTED 10/25/01 AND WAS
SUBSTANTIALLY COMPLETED 10/01/02,
PHASE II STARTED 3/28/02 AND WAS SUBSTANTIALLY
COMPLETED 12/28/03



OWNER: THE PENNSYLVANIA STATE UNIVERSITY
ARCHITECT: BOWER LEWIS THROWER ARCHITECTS,
PAYETTE ASSOCIATES INC.
LANDSCAPE ARCHITECT: LAGER RAABE SKAFTE
LANDSCAPE ARCHITECTS
CM: REYNOLDS CONSTRUCTION MANAGEMENT, INC
MECH. ENGINEER: BR+A CONSULTING ENGINEERS
STRUCTURAL ENGINEER: GANNETT FLEMING
GENERAL CONTRACTOR PHASE I: L.S. FIORE INC.
GENERAL CONTRACTOR PHASE II: ALEXANDER BUILDING
CONSTRUCTION, LLC.
COST CONSULTANT: BECKER & FRONDORF

MECHANICAL SYSTEMS:

- 4 INTERIOR AIR HANDLERS UNITS
- VARIABLE & CONSTANT VOLUME BOXES
- LABORATORY HOODED EXHAUST
- RADIANT CEILING PANELS (HEATING)

ELECTRICAL SYSTEMS:

- 3000 AMP, 480/277 V, 3-PHASE, 4 WIRE
- EMERGENCY GENERATOR: 5000 KW, 480/277 V, 3-
PHASE, 4 WIRE

LIGHTING:

- TYPICAL 277V LIGHTING SYSTEM
- LIGHTING IS PRIMARILY FLUORESCENT



STRUCTURAL SYSTEMS:

- STRUCTURAL STEEL SKELETON

FOUNDATION SYSTEMS:

- SPREAD FOOTING
- REINFORCED CONCRETE MAT

ARCHITECTURAL FEATURES:

- ENCLOSED PEDESTRIAN BRIDGE CONNECTING CHEMISTRY
TO LIFE SCIENCES.
- ALUMINUM CLAD HIP ROOF ENCLOSING PENTHOUSE
- COMBINATION OF GLAZING, METAL PANELS, AND BRICK
VENEER FACADE