LONGWOOD AT OAKMONT HEALTHCARE CENTER

VERONA, PENNSYLVANIA

PROJECT DELIVERY TEAM

Owner/Occupant: Presbyterian Senior Care
General Contractor: Mistick Construction
Architect: Reese, Lower, Patrick, and Scott, Ltd.
MEP Engineer: Reese Engineering Inc.
Structural Engineer: Zug and Associates
Civil Engineer: Gateway Engineering Inc.
Landscape Architects: Victor – Wetzel Associates
Food Services: S.S. Kemp and Co.

BUILDING INFORMATION

Overall Estimated Cost: $11,000,000
Project Size: 45,000 S.F.
Prject Height: Two Stories Above Grade
Project Delivery Method: Design-Bid-Build
Construction Dates: Start - November 2007
Finish - July 2008

ARCHITECTURE

- Combination of renovation and new construction
- Dementia Wing
- Rehabilitation Area
- Healthcare Center
- All areas include multifunctional public spaces as well as a number of varying resident rooms.
- Exterior facade consists of a combination of red brick, vinyl siding, and EIFS.

MECHANICAL

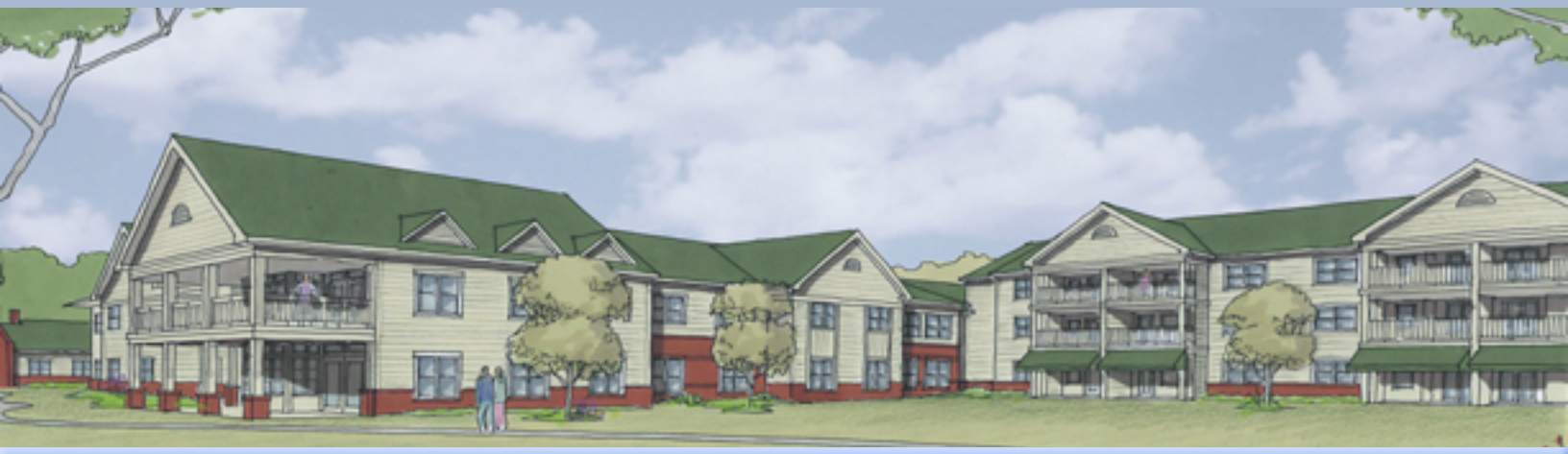
- Water source heat pumps serve individual spaces
- Gas fired boilers provide heat for closed water loop
- Closed circuit fluid cooler located on roof
- Ventilation air handled by single energy recovery unit, brought to "room neutral" before being supplied to heat pumps
- Exhaust air drawn through energy recovery unit with the exception of specified rooms which are exhausted directly outside

STRUCTURAL

- Concrete strip footings along exterior walls
- 6" concrete slab-on-grad reinforced with welded wire frame
- Load baring exterior masonry walls
- Steel wide-flange beams
- Unique roof trusses allow for mechanical and plumbing to run above corridor

LIGHTING/ELECTRICAL

- 3000 amp service switchboard at 208 volts
- 300 KW natural gas fired emergency generator
- Most lighting is energy efficient fluorescent
- Nurse call system throughout building
- Patient wandering system located in dementia wing



TYLER LOBB

MECHANICAL OPTION

http://www.engr.psu.edu/ae/thesis/portfolios/2008/tdl139/

The Pennsylvania State University

Department of Architectural Engineering