

Masonic Village at Sewickley

Sewickley, PA



Courtesy of: Reese, Lower, Patrick, & Scott, LTD.



MEP

Cooling Tower:	90,000 CFM
Boilers:	3 Natural Gas Boilers 1 – WSHP (1,9680 MBH) 2 – Hot Water (1,680 MBH)
Condenser Pumps:	2 Pumps (826 GPM)
Heat Recovery:	2 Units (2,500 CFM)
Electrical System:	480/277V 3 Φ , 4 Wire
Utility Feed:	15 kV
Generator:	800 kW
Fire Suppression:	Wet Pipe Sprinkler System

Project Overview

Owner:	Masonic Villages of Pennsylvania
CM:	Weber Murphy Fox
Architect:	Reese, Lower, Patrick, & Scott
Engineers:	Macintosh Engineering, Alderson Engineering, Gateway Engineering
Building Type:	Retirement Home/Health Care
Total Height:	3 Stories
Project Cost:	\$22.8 Million
Duration:	Sept. 13, 2012 – Sept. 27, 2012
Address:	1000 Masonic Dr. Sewickley, PA 15143

Construction

Project Delivery:	GMP
Enclosure:	Brick Veneer (3-5/8" x 7-5/8") Asphalt Shingles
Occupancy:	128 Beds
New Construction:	66,455 SF
Renovation Work:	40,000 SF
Project Phasing:	<i>Phase 1</i> – Site Development <i>Phase 2</i> – New Additions <i>Phase 3</i> – Connect Additions <i>Phase 4</i> – Heavy Renovations <i>Phase 5</i> – Light Renovations

Structure

Foundation:	Caissons Grade Beams Spread Footings
CIP Concrete:	4" Slabs-on-Grade 2" Topping Slabs 1 st Floor Form Walls
Precast Concrete:	Solid Core Concrete Planking
Masonry:	CMU Bearing Walls (8"x16")
Roof:	Wood Trusses Wood Sheathing

Jason M. Drake

Architectural Engineering | Construction Option

<http://www.engr.psu.edu/ae/thesis/portfolios/2012/JMD5306/index.html>