

# INTRAMURAL BUILDING ADDITION AND RENOVATION PHASE I

## UNIVERSITY PARK, PA



### GENERAL BUILDING DATA

**SIZE:** 47,925 GSF Addition | 148,565 GSF Total  
**STORIES:** 1 Story w/ Mezzanine and Basement  
**FUNCTION:** Higher Education Gymnasium Facility  
**DELIVERY METHOD:** Multiple Prime Contract - GMP  
**TOTAL COST:** \$26.1 Million  
**CONSTRUCTION DATES:** 01/31/2013 - 02/12/2012

### PROJECT TEAM

**OWNER:** The Pennsylvania State University  
**CM:** M.A. Mortenson Construction  
**ARCHITECT:** Moody Nolan  
**ASSOCIATE ARCHITECT:** APArchitects  
**CIVIL ENGINEER:** Sweetland Engineers & Associates  
**STRUCTURAL ENGINEER:** Korda  
**MEP ENGINEER:** Reese Engineering  
**LIGHTING DESIGNER:** CD+M Lighting Design group  
**LANDSCAPE ENGINEER:** The EDGE Group  
**COST ESTIMATOR:** Rider Levett Bucknall

### ARCHITECTURE

- Norman brick face and Aluminum wall Panels
- Operational Glazing (Curtain Wall)
- High end Fitness facility and Cardio Loft
- Highly visible and elegant entrance

### MECHANICAL SYSTEM

- Chilled Water Cooling System
- Steam Heat exchangers feed the AHUs to 25 VAVs
- Fin Tube Radiators for additional heating

### ELECTRICAL SYSTEM

- 480/277V Secondary
- (1) 2000 A and (1) 1600 A Switchgear and Switchboard
- (1) 225 KVA and (1) 45 KVA transformers in New Addition

### STRUCTURAL

- Limited Mobility Displacement Grouting performed to improve the stability of soil
- Cast in Place Foundation and Footings
- Structural Steel Framing

## GONZALO LAY

### CONSTRUCTION OPTION

<http://www.engr.psu.edu/ae/thesis/portfolios/2014/gv15037/index.html>



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