



STEVEN ROGERS

CONSTRUCTION
MANAGEMENT

[HTTP://WWW.ENGR.PSU.EDU/AE/THESIS/PORTFOLIOS/2010/SMR353](http://www.engr.psu.edu/ae/thesis/portfolios/2010/smr353)

PROJECT TEAM

- △ Owner: Loyola College In Maryland
- △ Architect: Sasaki Associates
- △ Construction Manager: Whiting Turner
- △ Structural Engineer: Whitney-Bailey & Associates
- △ MEP/FP Engineer: Gipe Associates
- △ Geotechnical Engineer: Haley & Aldrich



PROJECT INFORMATION

- △ Size: 41,520 Square Feet
- △ Date of Construction: December 2006-February 2009
- △ Cost: \$53,872,347
- △ Project Delivery Method: Guaranteed Maximum Price (GMP)
- △ Stories: 4 stories (Includes Press Boxes and Presidential Suite)

ARCHITECTURE

The stadium is composed of a four-story complex with upper and lower grandstands, which can hold up to 5,966 people. The complex also contains a home game field and two practice fields. There are two main stairwells, one on the north end of the building and one in the middle of the building. The exterior is composed of stone veneer, glazed aluminum curtain wall systems, EIFFs, and concrete walls.

MEP SYSTEMS

- △ Electric Distributed through building at 277/480 V
- △ (1) backup 400kW generator with 2 Automatic Transfer Switches, (1) 400 Amps and (1) 800 Amps
- △ (7) ERVs totaling 24,850 CFM
- △ (66) Water Source Heat Pumps Provide the Heat To The Building
- △ Linear fluorescent luminaries with direct distribution is utilized the most throughout the building

STRUCTURAL

- △ Lower grandstands consist of 4000 psi cast-in-place concrete with a typical column being 18"x18"
- △ Upper grandstands are supported by the columns, spread footings, and concrete shear walls of the building.
- △ Columns range from W10x49 to W12x120
- △ 3 1/4" lightweight concrete slabs on 3"x 20 gauge composite metal decking

