



**Turner**



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### General Building Data

- Building name : **Susquehanna Sports Center**
- Location and site: **Bel Air, MD**
- Building Occupant **Harford Community College**
- Size: **106,955 SF**
- Dates of construction: **5/23/2011-11/07/12**
- Overall project cost: **\$26.7 Million**
- Project delivery method: **Design-Bid-Build**

### Primary project team

- Owner: **Harford Community College**
- CM: **Turner Construction**
- Architect: **Hord | Coplan | Macht**
- Civil: **Site Resources, Inc.**
- MEP: **BKM & Associates, Inc.**
- Structural: **CMJ Structural Engineering, Inc.**
- Natatorium: **Councilman Hunsaker**

### Architecture

- The renovation of the existing Susquehanna Center includes an expanded fitness center with a new façade that provides filtered, natural, indirect light into the space.
- The administrative offices for the athletics department and physical education faculty and staff have been also upgraded.
- The existing 25-yard swimming pool will be refurbished and fitted with new equipment.
- The new construction includes a 2,500 seat arena with wood athletic floor, concessions, ticket windows, and public toilet rooms.

### Structure

- The structure of this building comprised of both structural steel and cast in place concrete. The new arena is supported by 153' long trusses spaced 8' apart.
- Cast in place concrete has been used in the main lobby area connecting the basketball arena with the Susquehanna center.

### Mechanical

- All existing HVAC systems are demolished and removed except for HVAC hot water boilers.
- New HVAC hot water pumps and hot water distribution along with a new 340 ton air-cooled chiller are included.
- The existing building is served by 4 rooftop air-handling units with chilled water and hot water coils along with a dedicated DX rooftop unit for the pool area.
- The new addition is served by (4) rooftop DX air-handling units with hot water preheat coils and heat recovery wheels.

### Electrical

- The secondary service will provide the buildings with 277/480 voltage power. Local dry transformers will be used to provide 120/208 voltage power for receptacles and low voltage loads.
- A diesel generator will provide emergency power to support the fire alarm system as well as life safety lighting.

**Haitham Alrasbi**

**Architectural Engineering—Construction Management**

<http://www.engr.psu.edu/ae/thesis/portfolios/2013/haa133/index.html>