

United States Naval Academy, Wesley Brown Field House

Annapolis, Maryland

Owner

United States Naval Academy

Contractor

Hensel Phelps Construction Company

Design Architect

Shalom Baranes Associates

Executive Architect

HKS, Inc.

Completion Date

2008

Construction Cost

\$50.9 million

Total Area

140,000 sf

Awards

Commander's Award for Design Excellence, 2009 NAVFAC Design Awards Program

Excellence in Structural Engineering Merit Award, New Buildings \$10-50 Million, Structural Engineers Association of Metropolitan Washington, 2008

Washington Contractor Awards, 2008 Merit Award Winner, Design-Build, Associated General Contractors of Metropolitan Washington



This design-build project consists of a 140,000-square-foot athletic center for use in physical education, varsity athletics, intramurals, club sports and personal fitness. The building was designed to meet LEED Silver criteria.

The Field House includes facilities for indoor track and field; a sports medicine clinic; varsity offices; a trophy/recruiting hall; locker rooms; varsity and physical education meeting spaces; storage spaces; spectator and multi-media spaces and systems and other support spaces. The project features a super-elevated hydraulic track and a retractable Astroturf surface.

The long-span roof is framed with box trusses spanning more than 200 feet. The trusses, connected by open-web joists, curve gracefully towards the water as they come to rest on 55-foot-high exposed concrete pylons. The structure rests on an elevated two-way concrete slab that is supported on piles, while the second floor consists of composite steel and concrete.

The project site required that the signature glass façade fronting the Severn River meet anti-terrorism force protection (ATFP) guidelines. The steel frame supporting the high-performance glass was designed to have sufficient ductility and ultimate strength to meet the blast-resistance requirements, while maintaining the building's architectural vision.



Photos by HKS, Inc.