

Metal building used for high school's sports complex

Scope: St. Augustine Preparatory Academy, Richland, N.J., recently completed a sports and classroom annex on the high school's 118-acre (47-hectare) campus. Operated by the Order of St. Augustine, Villanova Province, the four-year, private high school has a selective enrollment of 650 boys. The school is widely respected for its balanced program of character development, academic competence and 19 interscholastic sports, including a top-ranked swim team.

Details: The \$21 million program for the newest building and some remodeling to an existing building followed a master plan designed to create a "campus quad" concept. The program required more than a year of planning, fundraising and an environmental impact study required of sites within the Pinelands Region of New Jersey.

The resulting 100,000-square-foot (9,290-m²) facility is a combination of metal building systems and conventional construction. The building features two physics and two biology

classrooms, administrative offices, an art room, chapel, eight-lane swimming pool, weight room, bleacher seating for the 1,100-spectator gymnasium, four locker rooms and miscellaneous support space. Careful attention was paid to including energy management and humidity control features in the advanced mechanical systems for the gymnasium and pool. Brick, split-faced block and metal wall panels make up the exterior wall construction, which is backed up with a high R-value metal refrigeration panel as the interior walls for the gym and natatorium and used as an inspection catwalk in the pool.

Butler Manufacturing, Kansas City, Mo., supplied the structural framing that was tied to the conventional bar joist creating the second floor, MR-24 standing-seam metal roof system and Butler metal wall panel system. Butler Builder Stanker & Galetto Construction, Vineland, N.J., led the project, and Manders/Merighi Associates, Vineland, provided architectural services.

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