Hadley Family Recreation & Well-Being Center

Project Description

The proposed new facility will contain 200,000 gross square feet and will include modern gymnasiums, a track for jogging and walking, spaces for weight and cardiovascular training, group exercise rooms, aquatics, climbing areas, courts for squash, and racquetball, locker rooms, support, and administration spaces. The project will allow greater access and opportunity for students, faculty, and staff to improve their health and well-being.

Energy Efficiency Measures

- The building's design and systems include several energy-efficient features that will target an estimated 20% energy savings compared with an energy code-compliant building, as defined in ASHRAE 90.1-2013.
- Automated window shades in the south and west-facing windows.
- Energy recovery chiller for IT closets and Electrical rooms.
- Increased inspection of building envelope during construction.
- Improved lighting power densities when compared to ASHRAE 90.1-2013.
- Increased insulation on below-grade walls.
- Increased insulation on above-grade walls.
- Increased insulation on the roof.
- High performance glass.
- High performance chiller equipment
- Demand control ventilation control for densely populated zones (with CO2 sensors).
- Dual energy recovery wheels for units with increased discharge air temperature.
- Increased size of cooling towers.
- Roof overhang to control solar heat gain.
- Approximately 100 photovoltaic panels provide on-site renewable energy.

Other Sustainability Features

- This project is registered under the LEED green building certification program with the certification goal of LEED Platinum under the LEED v4 for New Construction rating system.
- Designed to adopt low/medium temperature hot water to allow connection to geo-exchange should it become available in the future.
- The project is located on previously developed site.
- Proximity to public bus routes and basic services (such as banks, theaters, and restaurants) encourage building occupants to use alternative transportation methods.
- Native and drought-tolerant plantings will require no irrigation for project landscape.
- Site protection / maintaining vegetative elements (landmark and surrounding trees).
- The stormwater management system will limit increased (post-construction) runoff levels, vegetation &

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topsoil will filter stormwater for quality before it enters into the existing system

- Construction waste will be diverted from landfills when possible.
- Low-VOC adhesives and sealants, paints and coatings, flooring systems, and composite wood products.
- Materials to contain recycled content whenever possible.
- Regional materials specified whenever possible to reduce negative environmental impacts associated with transportation.
- Low-flow fixtures will reduce water consumption by a minimum of 20% beyond code requirements.