

# New Construction/Addition Entire School/Campus Building

NAC | Architecture 2025 First Avenue, Suite 300 Seattle, WA 98121 www.nacarchitecture.com Kevin Flanagan, AIA, LEED AP, Principal Architect 206/441-4522

#### **DESIGN TEAM**

Guy J. Overman, AIA, Principal-in-Charge, Design Principal Steven M. Shiver, AIA, Project Manager/ Ed Planner Galen R. Newton, Construction Administration Coughlin Porter Lundeen, Civil & Structural Engineers Hargis Engineers, Mechanical Engineers NAC | Engineering, Electrical Engineers

#### **OWNER/CLIENT**

Renton School District Renton, WA Dr. Merri Rieger, Superintendent 425/204-2300

## **KEY STATS**

Grades Served: 7-12 Capacity: 400 students Size of Site: 11.82 acres Building Area: 69,061 sq. ft. Building Volume: 1.38 million cu. ft. Space per Student: 172 sq. ft. Cost per Student: \$53,564 Square Foot Cost: \$310 Construction Cost: \$21.4 million Total Project Cost: \$26.4 million Contract Date: Apr. 2011 Sustainability Rating System/Applied/ Status/Level: WSSP

PHOTOGRAPHY: ED SOZINHO

# Secondary Learning Center

Renton, WA



The Secondary Learning Center (SLC) is envisioned as a catalyst for future learning facilities in the District. An alternative school, the SLC is designed as an integrated, project-based learning environment, enabling learners to develop at their most effective pace. Inherent in this model is both flexibility and fluidity as the primary goal is to match students with a learning environment that enhances their learning style and likelihood of success. Staff and students work as a team to identify each student's unique needs and place them in an appropriate program based on maturity and optimum instructional strategy to empower them to grow and mature. Three main tracks were developed: Directed, Guided and Independent. Each has a zone









within the building while also sharing spaces such as science, career technology and physical fitness. Virtual learning is integrated into the program.

The SLC incorporates sensible sustainable strategies

to enhance energy performance and serve as teaching tools, and is predicted to consume 46% less energy than the average school. Colored accent lighting provides users with immediate feedback about the building's energy use and offers students and staff the opportunity to actively participate in lowering their consumption of water, tempered air and energy.



## High Performance Building Envelope

The esterior walls of the SLC have been carefully designed to provide enhanced thermal performance. Emergy loss is prevented through additional insulation, reduced thermal bridging, and upgraded window glass.



- Spray foam insulation seals gaps in insulated wall cavities
- Horizontal rigid insulation panels reduce heat transfer
- Shading device prevents glare inside room
- Light shelf reflects light deeper into the room
- Thermally broken window frames reduce heat transfer
- Displacement ventilation in classrooms and Commons
- Thermally broken primary structure and building envelope reduces heat transfer through steel building components
- Double pune glazing with Solarban coating on multiple surfaces doubles insulation performance compared to standard insulated glass

Continuous insulation

- Air barrier prevents heat loss
- Thermally broken exterior wall and floor slab-