



Stanton Elementary West Entrance Rendering (Image Source: Tompkins Builders)

Stanton Elementary School

Washington, D.C.

Ryan DeJesso

Construction Management

Advisor: Dr. Somayeh Asadi

Project Team

Owner: Department of General Services
Architect: Little Diversified Architectural Consulting
Structural Engineer: ReStI Designers, Inc.
MEP Engineer: Engenium Group
Civil Engineer: Wiles Mensch Group
Geotechnical Engineer: ECS
AV/IT/Security Consultant: Polysonics
Construction Manager/Estimator: Tompkins Builders

Project Information

Occupancy: Educational (Elementary)
Project Type: Building Addition
Size: 21,449 SF
Number of Stories: 3
Building Height: 50 feet
Construction Cost: \$14,000,000
Overall Project Cost: \$16,000,000
Project Delivery Method: Design-Build with GMP
Building Completion: December 28, 2015
Project Completion: April 15, 2016

Project Goals

Design Goals: LEED Silver Certification
Client Goals: Increase building size to meet the enrollment needs of the school district. Enhance the quality of learning for Stanton Elementary School students.
Client Key Concerns: Quality project is delivered as ensured by a third party inspector. Substantial completion by December 28, 2015 to allow for students to move in to building on first day back from winter break.
Client Expectations: Project is delivered on-time and within the expected budget.

Architecture

- ◆ Building addition increases square footage of the building from 62,300 to 83,700 square feet. Building will hold 46 classrooms following the addition.
- ◆ Brick façade envelopes existing building. Addition will feature both a horizontal and vertical insulated metal panel façade.
- ◆ Large glass curtain wall present at the west entrance.

Green Roof

- ◆ Located on building first and third story floors and covers a total of 10,450 square feet.
- ◆ Made up of 4 inches of media with sedum plantings for roof vegetation. Green roof overlays a system of vapor barriers and drainage on top of roof slab.

Structure

- ◆ Steel structure with bolted connections on top of spread footings. Spread footings supported by piles.
- ◆ Composite metal deck using a two-inch 20 gage deck with four inches of lightweight concrete
- ◆ Helical pile and pile cap system in conjunction with continuous footings makes up foundation system

MEP Systems

- ◆ Mechanical system uses a refrigerant flow system with variable air volume (VAV) terminals.
- ◆ Electrical system utilizes three main switchboards. The main switchboard operates as a 265V/460V system, while the two main distribution panels operate as a 120V/208V system and a 277V/408V system.