



PROJECT TEAM

Owner: District of Columbia Public Schools

Design-BUILDER: HESS Construction + Engineering Services

Architect: cox graae + spack

Associate Architect: SHW Group

Civil Engineer: Wiles Mensch

Landscape: EDAW | AECOM

Structural: ADTEK

M/E/P: Setty and Associates International, PLLC

BUILDING STATISTICS

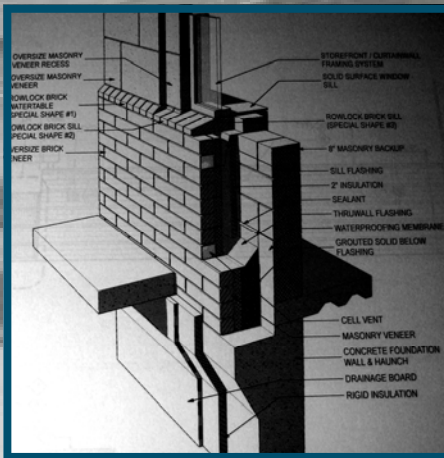
Function: Complete High School Facility

Size: 266,000 SF

Stories: 3 above grade, 1 below

Construction: September 2009—November 2011

Delivery Method: Design-Build w/ CM at Risk



Rendering courtesy of cox graae + spack

ARCHITECTURE

Purpose: New High School facility to replace the former High School at the same location

Spaces: 2 Gymnasiums, Natatorium, Auditorium, Classrooms, Admin Spaces and Outdoor Sports Facilities

Material: Brick, Precast Banding, Masonry Panels, Aluminum Panels and Storefront Style Glass Curtain Walls

ELECTRICAL

Power Distribution: Two Switchboards

3,000A 480/277V 3PH 4W

Step Down Transformers: Multiple per floor for 208/120V Loads

STRUCTURAL

Main Floors: Ordinary Steel Construction with Concentrically braced frames.

Roof: metal decking on Open Web Steel Truss

Foundation: Spread Footings on Structural Fill or Undisturbed Earth

MECHANICAL

Ventilation: Dedicated Outdoor Air System with VAV's

Heating Loads: Gas Fired Parallel Boilers supply AHU's and Reheat Coils at VAV's

Cooling Loads: Cooling tower with 2 Dual Centrifugal Chillers supply AHU's and DOAS/VAV System

Natorium: Standalone Dehumidification Unit

Neal Diehl

Construction Option

<http://www.engr.psu.edu/ae/thesis/portfolios/2011/nwd5013/index.html>