

T.C. WILLIAMS HIGH SCHOOL

ALEXANDRIA, VA

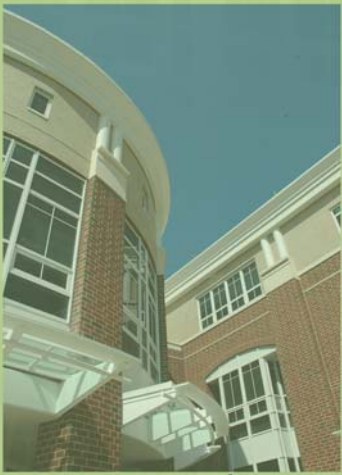


GENERAL INFORMATION

- PROJECT COST: \$87,000,000
- SIZE: 3 STORIES~461,000 SQ FT
- COMPLETED: SUMMER '07
- ARCHITECT: MOSELEY ARCHITECTS
- ENGINEERS: MOSELEY ARCHITECTS
- CONSTRUCTION MANAGEMENT:
HENSEL PHELPS
- PROJECT DELIVERY METHOD:
DESIGN BUILD~GMP

ARCHITECTURAL FEATURES

- GREEN ROOF
- 70% OF ROOMS CONTAIN AN OUTSIDE VIEW
- EXPOSED STRUCTURAL STEEL
- OUTDOOR PLAZA



LEED DESIGN

- ACHIEVED SILVER RATING
- 450,000 GALLON CISTERN, PROVIDES WATER FOR CHILLERS, AIR CONDITIONING, AND TOILETS
- GREEN ROOF - COLLECTS WATER FOR CISTERN



LIGHTING | ELECTRICAL

- CLASSROOMS - 54W T5 HO 277V
PENDANT FIXTURE
- CORRIDORS - 32W T8 277V
RECESSED FIXTURE
- (24) 270V PANEL BOARDS
- (67) 120V PANEL BOARDS

STRUCTURAL

- STRIP AND SPREAD CONCRETE FOOTINGS
- BUILDING FOUNDATIONS CONSTRUCTED ON SUB GRADE SOIL IMPROVED BY THE INSTALLATION OF A GEOPIER RAMMED AGGREGATE PIER SOIL REINFORCEMENT SYSTEM
- COMPOSITE FLOOR SYSTEM W/ 3" CONCRETE SLAB ON 1½" STEEL DECK SUPPORTED BY STEEL BEAMS
- ROOF SUPPORTED BY 3" STEEL DECK ON K SERIES STEEL JOISTS

MECHANICAL

- (2) 600 TON 975 GPM CHILLERS
- (2) 9,000,000 BTUH 1,200 GPM COOLING TOWERS
- 17 ROOF TOP AIR HANDLING UNITS W/ COMBINED 229,100 CFM
- 4 INDOOR AIR HANDLING UNITS W/ COMBINED 40,355 CFM

CHRISTOPHER B DEKER
STRUCTURAL OPTION

<http://www.engr.psu.edu/ae/thesis/portfolios/2008/cbd127/>

