VEFP ARCHITECTURAL EXHIBIT

March 17, 2015

Williamsburg, Virginia









Renovation/Additions Category

Midlothian High School
Martin Luther King Jr. Middle School
Charlottesville High School Sigma Lab
Chesterfield Career & Technical Center at Hull
Fauquier High School





Jury Comments Midlothian High School

- New entrance more lighting
- Inviting exterior look







MIDLOTHIAN HIGH SCHOOL

The original Midlothian High School building on Charter Colony Parkway opened thirty years ago in 1984. The Midlothian High School Additions and Renovation project focuses construction in six areas of the building. Additions include a new main entrance to the school, an Administration Suite, Performing Arts Classrooms, a Fitness Center, and a new 3-court Gymnasium with a 2,000-person seating

capacity. Renovated spaces include the Administration and Guidance spaces areas, the Clinic, one Science Classroom, the Media Center, Performing Arts classrooms, and the Auxiliary Gymnasium (renovated into team locker rooms). Phasing of the additions was of primary consideration as the school was occupied during construction.

















Jury Comments Martin Luther King Jr. Middle School

- Bright and cheerful
- Good use of color







MARTIN LUTHER KING, JR. MIDDLE SCHOOL

The main goal of this project was to provide a high-quality 21st Century learning environment for the Martin Luther King, Jr. Middle School students, administration, and faculty. In order to provide this for the citizens of Richmond, the City of Richmond and Richmond Public Schools initiated a program known as Building a Better

Richmond and it was determined that a new facility should be constructed on the current site while reusing the existing auditorium and some portions of the surrounding spaces. Concurrently, an Educational Specification was developed for this school which guided the schematic process.





















Jury Comments Charlottesville High School Sigma Lab

- Vibrant planning process
- Collaborative learning environment
- 21st century learning



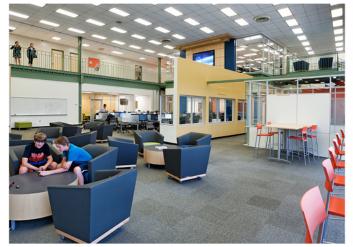


Renovation of 6,900-square-foot media center on the first floor





before





after





First floor as seen from second floor corridor





before





after

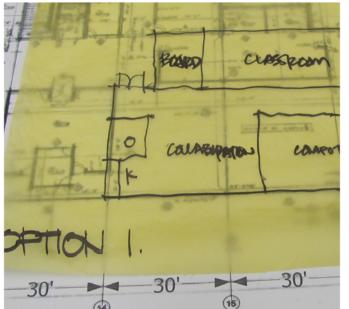




Students, faculty, administrative staff, and architects converged in a collaborative session to discuss user needs and explore design solutions.



This charrette resulted in concepts for a very open plan; existing building elements would be shifted on a fivedegree angle to allow the new STEM Lab to stand apart from the existing construction.











DESIGN FOR INNOVATION

The STEM lab is set up in three distinct areas so a student can collaborate during the design process, execute their design in the computer lab, and build their design in three-dimensions.









DESIGN FOR INVITATION

Highly visible within the school to entice passing students into the STEM program



DESIGN FOR EXHIBITION

Twelve LCD television monitors display the students' projects, visible from both the first and second floors

Built-in display cases beneath the monitors feature the lab's 3-D creations







Renovation/Addition Category Special Recognition Award Charlottesville High School Sigma Lab

- Charlottesville City Public Schools
- Moseley Architects









Jury Comments Chesterfield Career and Technical Center at Hull

- Effective makeover
- Looks like a cool hotel, an innovation center
- Spaces that promote collaboration opportunities
- Mirrors working environment
- Multi-functional great design
- An inviting environment



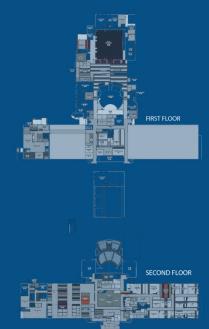




THE CAREER & TECHNICAL CENTER at HULL

Thomas R. Fulghum Conference Center

Chesterfield County needed a multi-functional facility that would combine career and technical education, school administration and a conference center, all within the walls of an abandoned high school building. Specialty career and technical education spaces accommodate lab, lecture and research areas for bio-technolog, homeland security, ecology, PT/OT, and mechatronics to name a few. Breakout space and collaboration hubs are ample throughout the building, encouraging 21st century learning among real world work environments. The Career and Tech Center design provides the County an opportunity to re-use existing space while building new programs for students and administrators in an innovative atmosphere.





























WORKING AMBIENCE

The goal for the instructional leadership and development spaces is to provide a flexible, collaborative environment that supports the existing positive synergies between departments and provides opportunities for developing new relationships. The multiple meeting and work areas as well as offices and stations exists for permanent employees and docking spaces are available for itinerant employees. Specific programmatic adjacencies were implemented in the organization of the space to facilitate interaction.











EDUCATIONAL COMMUNITY

The open architecture approach blurs the boundaries between the work environment and leisure spaces increasing opportunities for collaboration and interaction. The meeting rooms, workrooms, open office meeting areas, the break room and the employee lounge are placed strategically within the building. All of these spaces are visible from multiple vantage points to maximize energy and interaction while taking advantage of the natural light brought into the building via enlarged glazed openings in the exterior walls.

















Renovation/Addition Category Silver Award Chesterfield Career and Technical Center at Hull

- Chesterfield County Public Schools
- BCWH Architects









Jury Comments Fauquier High School

- Social circulation promotes interaction
- Interesting variety of furniture
- User friendly details
- Fun info graphics
- Spaces and student movement facilitate collaboration and connections





Fauquier High School







SITE STRATEGY

The strategy for the addition and renovation of Fauquier High School unites disparate school wings into a coherent and harmonious campus.

The 90,000 SF addition replaces an underperforming 1964 classroom building. Providing a net increase in usable space within a smaller footprint, the addition efficiently contains classrooms, laboratories, administrative spaces, and common areas within its four stories.

The existing library is transformed into a 21st century media center, the performing arts precinct is renovated and expanded, and the school campus is renewed with landscape improvements and a campus master plan for future growth.















BUILDING STRATEGY

Fauquier High School's entrance level is composed of shared school and community spaces. An administrative suite, a versatile student commons, the media center, and the Falcon Room forum surround a ground-level academic courtyard. The four-story stairway spills into the student commons and links it to three additional floors of classroom academies.

Social engagement and flexible learning are prominently displayed in this four-story vertical learning environment, foregrounding a new civic presence and showcasing Fauquier County's commitment to educational excellence. In all, the new addition and its integrated landscape provide students, teachers, and visitors with a vital sense of orientation and school character.





TAKING LEARNING TO THE STAIRS

The central stair provides much more than passage from one floor to another: it's the life force of the school. Designed to facilitate a variety of learning activities and social encounters, the stair and its circulation environment are choreographed with places for sitting, chatting, group work, small presentations, impromptu assemblies, school displays, galleries of student work / awards, and other opportunities to extend learning beyond the four walls of the classroom.

Situated next to a four-story glass curtain wall, the stair is bathed in natural daylight and capitalizes on views of the surrounding county. Likewise, from the outside, the stairway is a prominent feature, showcasing various instances of learning and engagement occurring in the school.











21ST CENTURY LEARNING ENVIRONMENTS

The central stair acts as a continuous learning environment, rich with a variety of formal and informal spaces. Flexible arrangements and comfortable furniture ranging in scale and character allow "break-out areas" to be easily customized to meet the diverse needs of students and teachers.

Along this circulation corridor, students and teachers alike have access to distributed conference rooms and break-out learning spaces. Flexible gathering and learning areas found along natural circulation pathways encourage active learning and a community of sharing.

Natural daylighting from Solatube™ skylights is supplemented by ample views of Fauquier County.

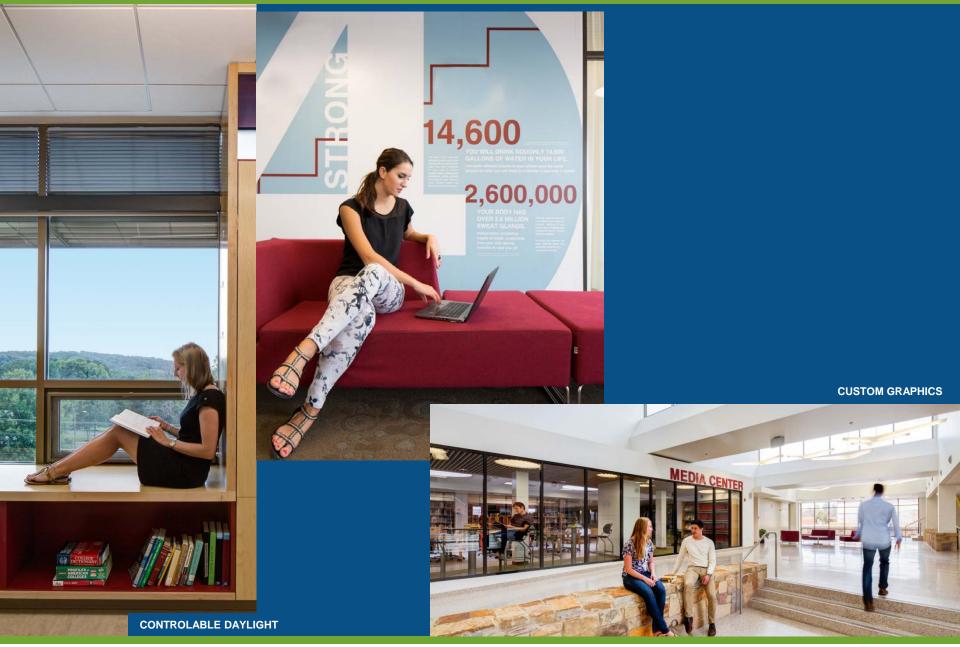


















INSPIRING HEALTH & MOVEMENT

The design of the four-story addition draws inspiration from a set of active design guidelines (first implemented by New York City in 2010) to encourage movement and active utilization of the built environment to bolster health and fitness. The central stair at Fauquier High School does just that, prompting stair use (and behavior change) by featuring interactive graphics about the health benefits of using stairs. Each floor in the school features a different branded color identity for wayfinding purposes along with engaging statistics related to a specific movement-based "floor theme" – including Healthy, Active, and Strong.













Renovation/Addition Category Gold Award Fauquier High School

- Fauquier County Public Schools
- VMDO Architects









New Construction Category

Pioneer Elementary School Georgie D. Tyler Middle School Nokesville K-8 School Kellam High School Replacement



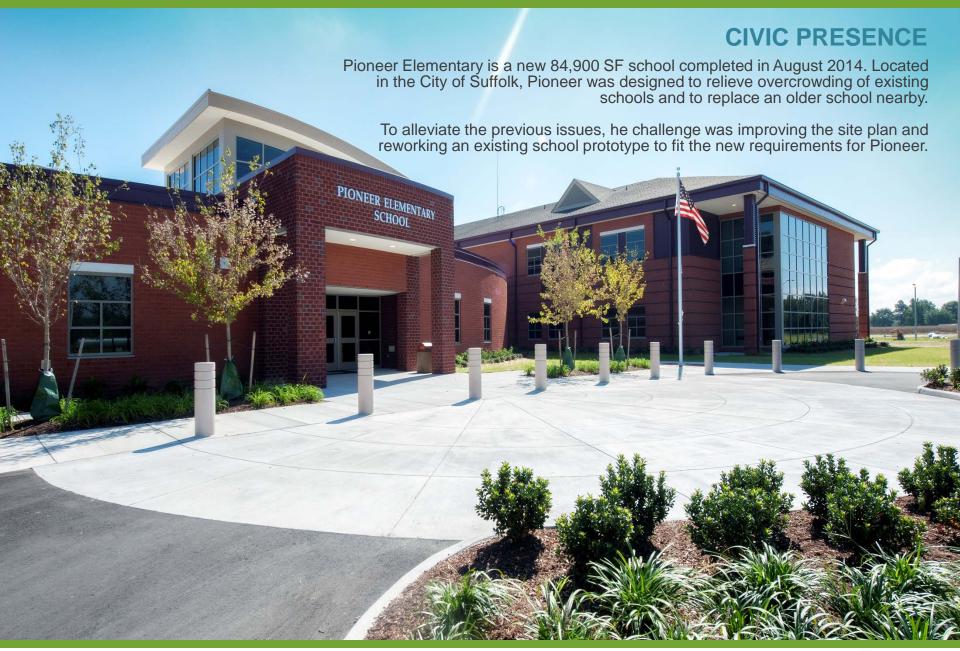


Jury Comments Pioneer Elementary School

- Good overall functional zoning
- Good site plan, flow and safety features
- Warm and friendly colors











SERVICE STAFF PARKING PLAY FIELD HARD SURFACE SOCCER NEW PIONEER ELEMENTARY PLAY FIELD SCHOOL **BUS LOOP** PLAY FIELD PLAY FIELD BUS FUELING STATION **SOFTBALL** Site Plan 200' 400' 100'

EDUCATIONAL COMMUNITY

The site is located on a heavily traveled highway, Route 58. It was important to arrange the school to allow buses and visitors to enter off of Pioneer Road versus Route 58.

The location of the play areas had to be carefully considered to ensure they were safely positioned as far as possible from the busy road.

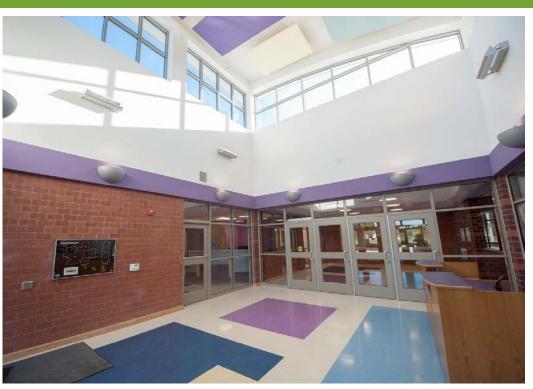


Academic Wing







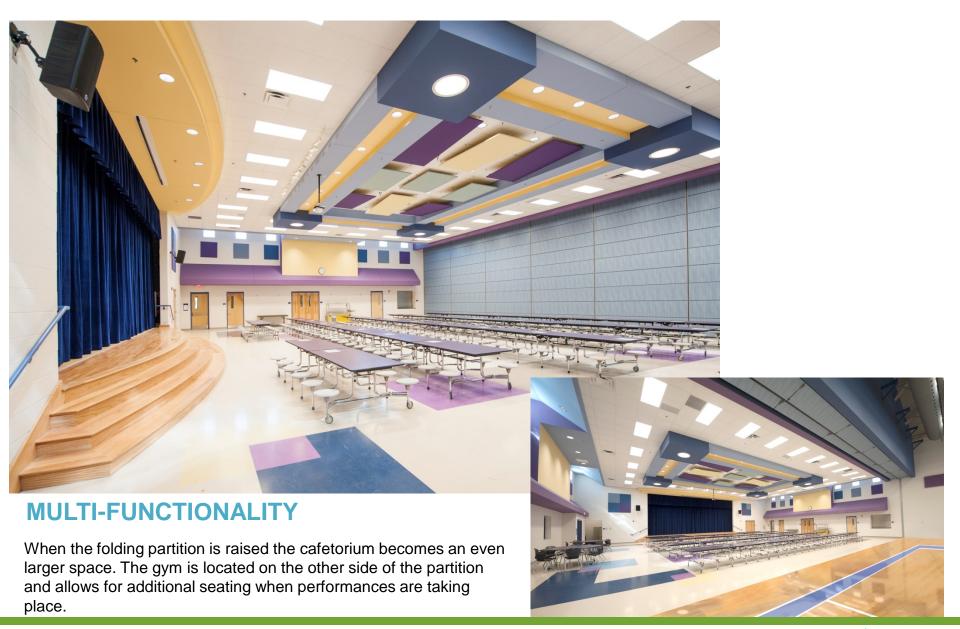


SUBTLE SECURITY

The floor plan is organized with a public entrance separate from the bus loop entrances. The idea behind this is to eliminate the public from entering the school without being checked in by the administration. Upon entering the large vestibule, one is greeted by a check desk with the administrative area adjacently located. This allows one to be checked prior to entering the interior of the school through another set of doors.













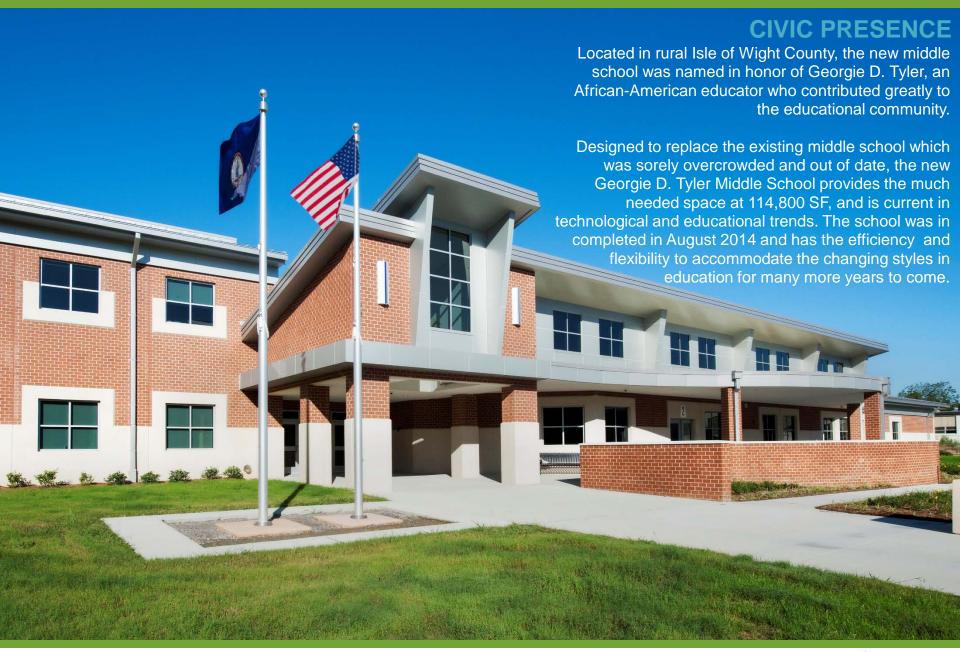


Jury Comments Georgie D. Tyler Middle School

- Tough tight site for building
- Good community use zoning
- Kid friendly main entrance
- Well-designed for community use
- Visible front lobby











SITE ORGANIZATION

GOURTHOUSE HWY (RTE 258) SOCCER **EXIST GYM** MULTI PURPOSE WALKING/ EXERCISE TRAIL BUS LOOP (15) NEW GEORGIE D TYLER MIDDLE **FIELD** SCHOOL SERVICE LINE OF EXISTING SOFTBALL BUILDING STAFF PARKING BMP (116 SPACES) N. COURT ST (RTE 610) (D) (D) N COURT STREET (NO' R/NO) POUTE 810 (PE 1 PO 204)/PE 4 PO 62, N COURT STREET (DO' N/N)

NO COURT STREET (DO' N/N)

The design challenge was to find a way to build the new school on the same site as the existing school while fully occupied with students, faculty, and staff.

The solution was to locate the new school in close proximity to the existing school; primarily to salvage and repurpose the existing gym into an auxiliary gym. Another high priority as determined from the users and school system was to retain the existing play fields for reuse. Finally, once the existing building is demolished the remaining area will be converted to new play fields.



Bus Loop Entrance



Site Plan

100' 200'

400'









EDUCATIONAL COMMUNITY

The academic wing is anchored with a monumental stair case centrally located in the commons area, which serves as a hub to help orient and guide students to their classrooms after entering from the bus loop.















CIVIC PRESENCE

Georgie D. Tyler Memorial. This new facility is named in honor of Georgie D. Tyler, an African-American educator, because of her positive and outstanding service to the students in this community. Ms. Tyler began teaching in single and two room school houses in 1912 and was later selected to be supervisor over the county's all-black schools, a total of 27. With Ms. Tyler being such a part of the community and history, the county Board of Educators voted to pay her this tribute. This memorial display will house artifacts (currently off site for refinishing) from the original school and from students taught by Ms. Tyler.









Jury Comments Nokesville K-8 School

- Clear segregation of elementary and middle school
- User friendly and spatial qualities in circulation
 - Balconies
 - Open stairs
- Abundant lighting
- Some sustainable features











To reduce students' distractions and to allow stronger relationships to be forged between teachers and individual families, Prince William County elected to replace an outdated elementary school with a combined school.

The new facility shares a site with the existing Brentsville High School. Careful studies and planning resulted in an integrated campus.

Hayfeld Playfeld Play

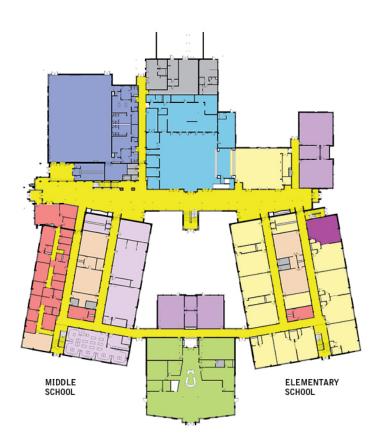


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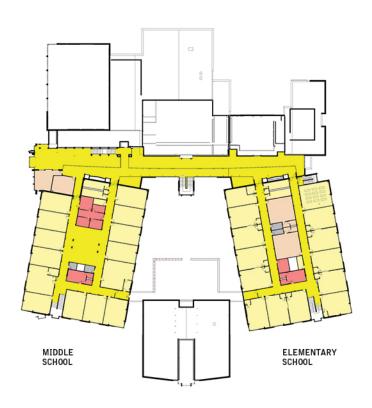




First Floor Second Floor











The school opens to a soaring, light-filled two-story foyer that leads to separate wings for the elementary and middle-school grades.













The school has two science labs: one for elementary school students and one for seventh- and eighth-graders—as well as a gymnasium, cafeteria, multi-purpose room and library, all of which will be used by all grade levels.



























New Construction Category Silver Award Nokesville K-8 School

- Prince William County Public Schools
- Moseley Architects









Jury Comments Kellam High School Replacement

- 6 small learning communities
- 3 types of purpose driven gardens
- Innovative small learning communities
- Collaboration stations are effective
- Good sense of purpose in each learning space





Jury Comments Kellam High School Replacement

- Collaborative planning process, community input
- Attractive and inviting
- 21st century learning spaces
- Green roof





KELLAM HIGH SCHOOL REPLACEMENT



From the beginning, this new 2,000 student high school was envisioned as a prototype for **21st century learning**. We established three clear objectives that would define success for this project:

- 1. Involve full spectrum of stakeholders in collaborative planning and design processes to maximize the value of designthinking across diverse networks and also to achieve user and community "buy-in.
- 2. Design a high school facility that will facilitate and support the implementation of a new curriculum and assessment model founded on the principals of student-centered challenge-based learning and focused on developing skills in critical thinking, creative thinking, collaboration and communication.
- 3. Create challenge-based learning opportunities for Kellam HS students that are integral to the planning and design process for the new school and that are collaborative efforts with the design team; incorporate design themes and elements into the school facility that will encourage students to become engaged as lifelong "sustainable citizens".





PLANNING: COLLABORATIVE DESIGN







EDUCATIONAL COMMUNITY/ LEARNING AMBIENCE

Learning Commons

The **Learning Commons** are at the core of each Learning Community, encouraging exploration and interaction.

Daylight

All common spaces are flooded with natural light, and each classroom is designed with sloped ceilings and light-diffusing windows in order to **capture the most daylight possible**. This increases student productivity and reduces the need for electrical lighting.







Two Smart Boards and Three projectors in each Experiential Lab space give many

avenues for the display of student work.

EDUCATIONAL COMMUNITY/

LEARNING AMBIENCE

Innovative Learning Spaces

All Learning Community spaces are designed to facilitate student discussion and collaboration, as well as presentation and demonstration. *Student Centered Problem-Based Learning* is successful when the educational model provides for inquiry-based, multi-sensory, multi-path, collaborative learning that has real-world context. Students come to understand that problem solving is an interdisciplinary and iterative process, and that there is no one right answer; rather, that there a multitude of possible solutions and that each have benefits and consequences.









SUSTAINABLE DESIGN

A Dynamic and Sustainable Outdoor Space for Learning and Exploration



The **edible garden** contains planter boxes, a greenhouse, composting bins, and an outdoor classroom constructed from sustainable materials.

The planning, planting, maintenance, and harvesting of the garden will be fully incorporated into the science and culinary arts curriculum.

Rainwater from adjacent roofs is collected for **sustainable irrigation** and run-off is directed through the gathering garden.

Rainwater from adjacent roofs is collected and added to the irrigation run-off in Rainwater Runnels, which meander through the Amphitheater, gathering areas, and outdoor café as a visual reminder to students of the role of water in their school and

environment.





Seating areas and sustainable decking are interspersed within a **natural marsh environment**, allowing students to directly observe water infiltration: the completion of the water's journey through the educational courtyard.





CIVIC PRESENCE

A School that Unites, Teaches, and Inspires 21st Century Learners

This High School is an educational facility that has truly been designed from the inside out, planned to support and facilitate a new challenge-based learning curriculum focused on engaging students in their own learning, and collaboratively designed by the stakeholders who will benefit from its realization.

This unique and innovative **design** directly responds and correlates to the new curriculum, and serves as a model for future schools in the area.

Through participating in the design and planning of this educational facility, the entire community has produced a new school that they can respect, take pride in, and get excited about.









Entrance Lobby

SUBTLE SECURITY

Providing Passive Security & Safety





We worked with teachers to establish **optimum levels of transparency**, allowing visual connections between learning spaces for passive security and increased interaction and collaboration among students and teachers.

Controlled entrances and clear separation of parking areas maximizes visibility and safety.







New Construction Category Gold Award Kellam High School Replacement

- Virginia Beach City Public Schools
- HBA Architects



