



2017 to 2018

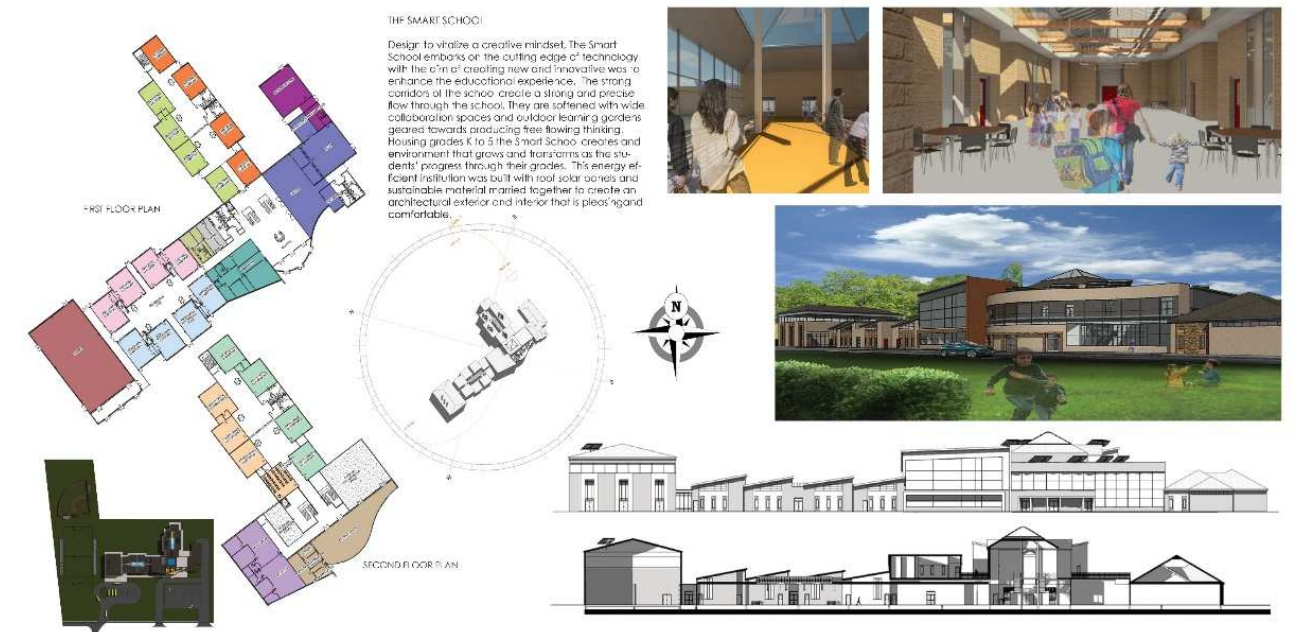
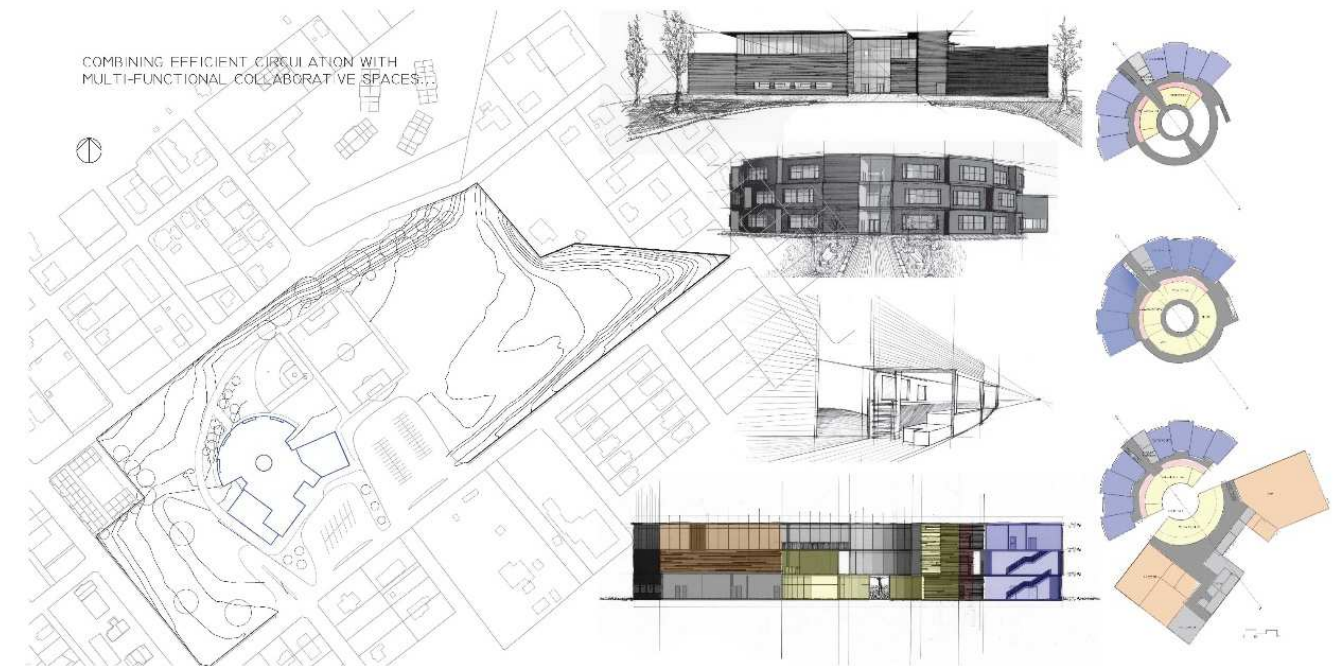
# STUDENT DESIGN COMPETITION





# Purpose of the Competition

- Expand the diversity of attendees at the annual conference by encouraging participation at the university level
- Student opportunities: educational facility planning, collaboration with design professionals, presentation skills, career development
- Add a “student perspective” component to the annual conference



# Competition Overview

- Students at Virginia Tech and Hampton University competed independently with the same building program, but different sites
- 2 classes total – 1 class at Virginia Tech and 1 class at Hampton University

## Awards per Each Class

- First Place - \$500 award + conference expenses (present design)
- Second Place - \$250 award + conference expenses (present design)
- Two Honorable Mentions – certificate

## Mentoring Teams

- **Virginia Tech** – Spectrum Architects, Moseley Architects, RRMM Architects
- **Hampton University** – Newport News Public Schools, Moseley Architects, RRMM Architects



# Competition Overview

- Design a “Smart School” for 650 elementary students – Grades K-5<sup>th</sup>
- Sites selected by Universities
- 3<sup>rd</sup> or 4<sup>th</sup> year architecture students, 6 weeks to complete
- Program was organized around energy efficient design and collaborative learning spaces that promote cross-curriculum integration through formal and informal learning spaces





# Judging Criteria

- Creativity
- Learning Enhancement Potential
- Educational Functionality
- Collaborative Opportunities
- Presentation Quality

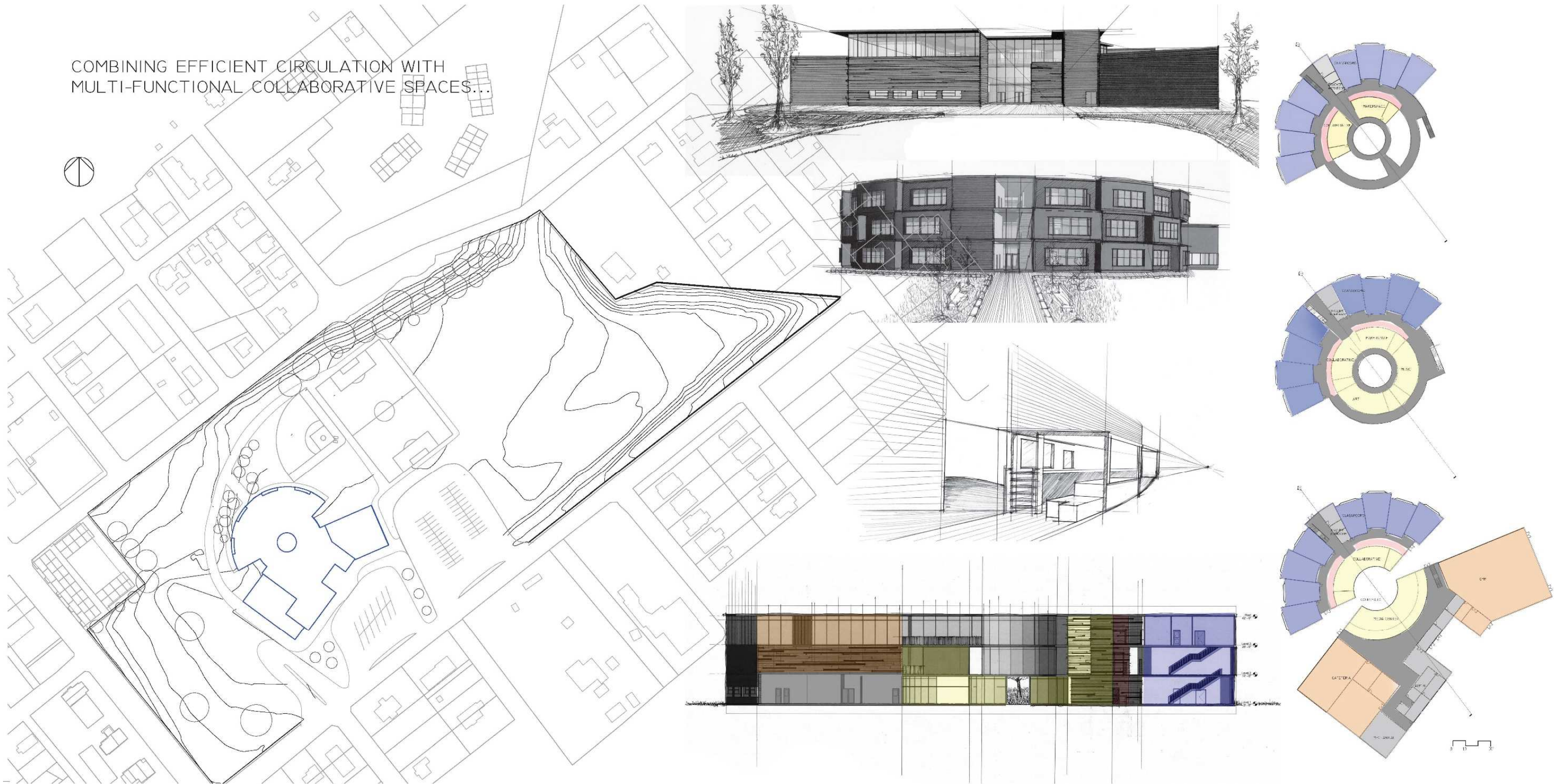




# First Place – Mina Kang

Virginia Tech

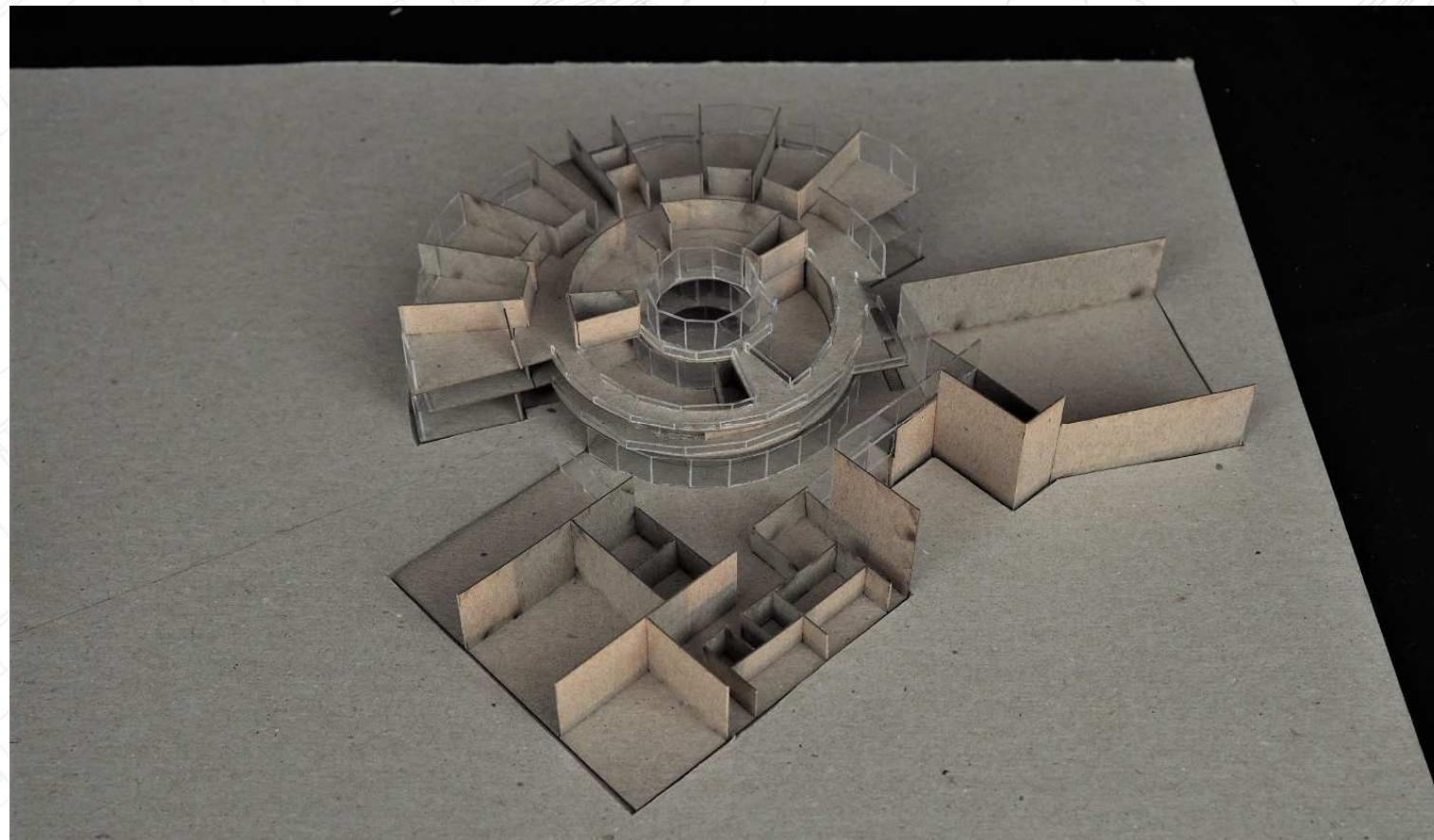
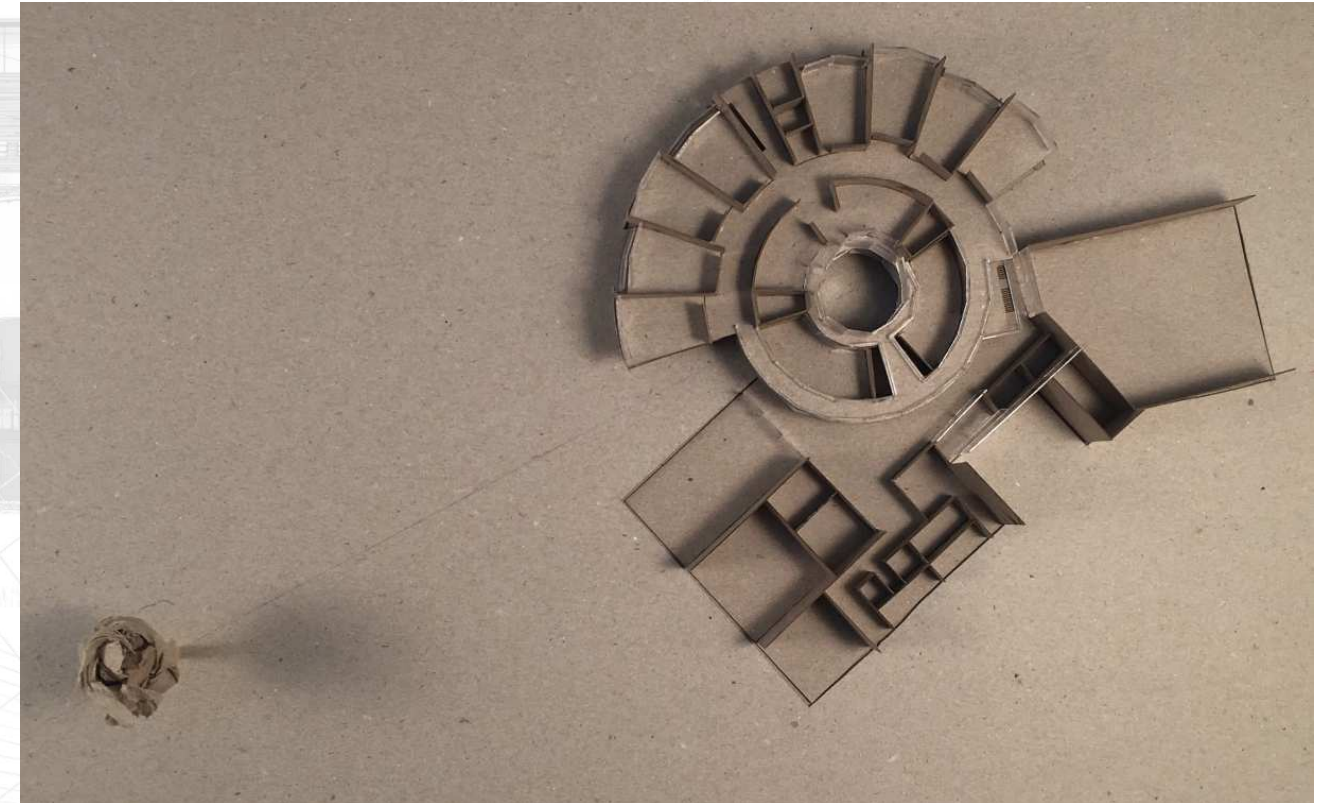
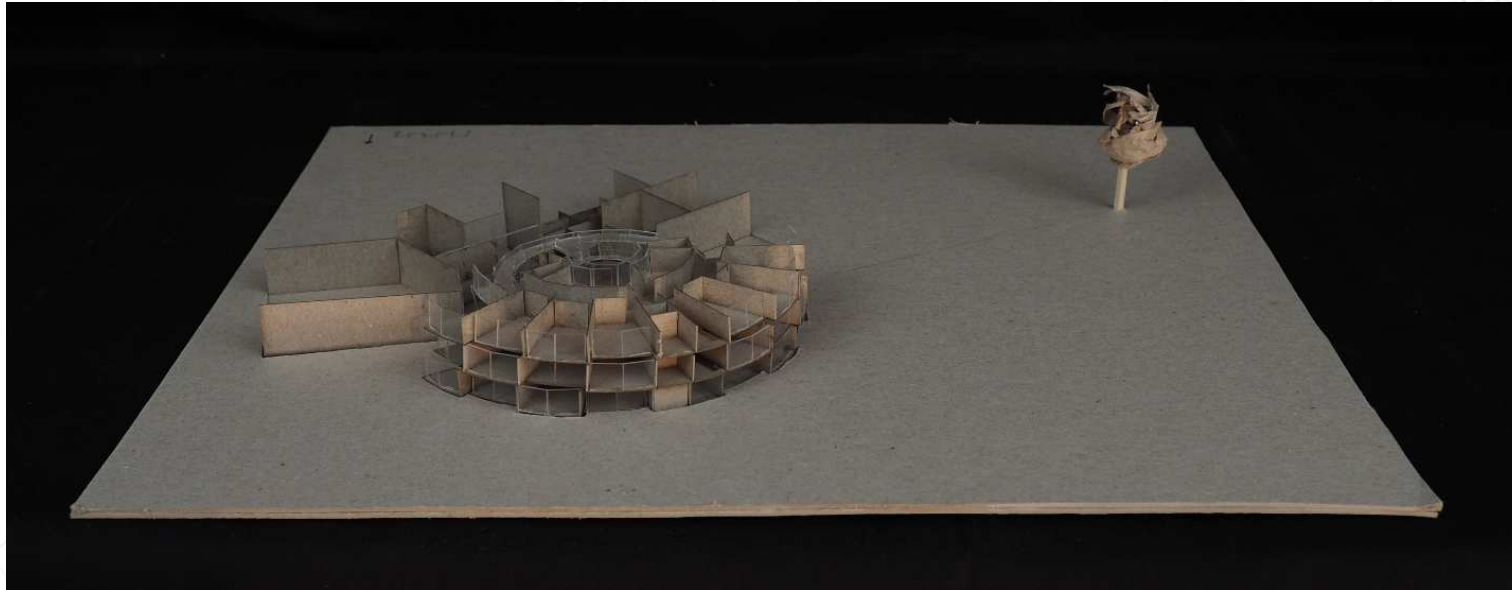
COMBINING EFFICIENT CIRCULATION WITH  
MULTI-FUNCTIONAL COLLABORATIVE SPACES...





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Virginia Tech



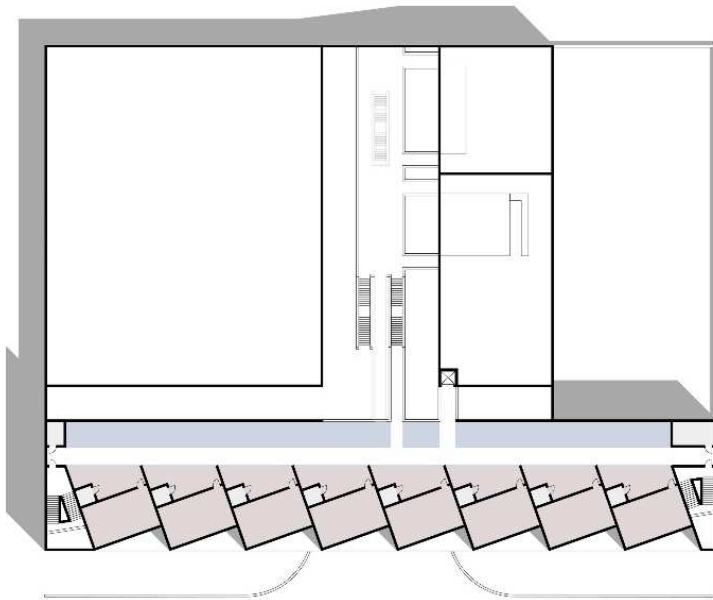
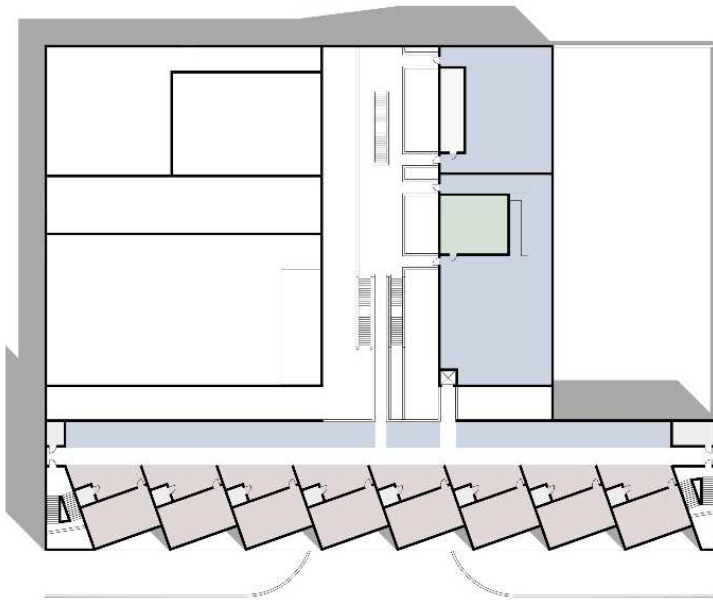
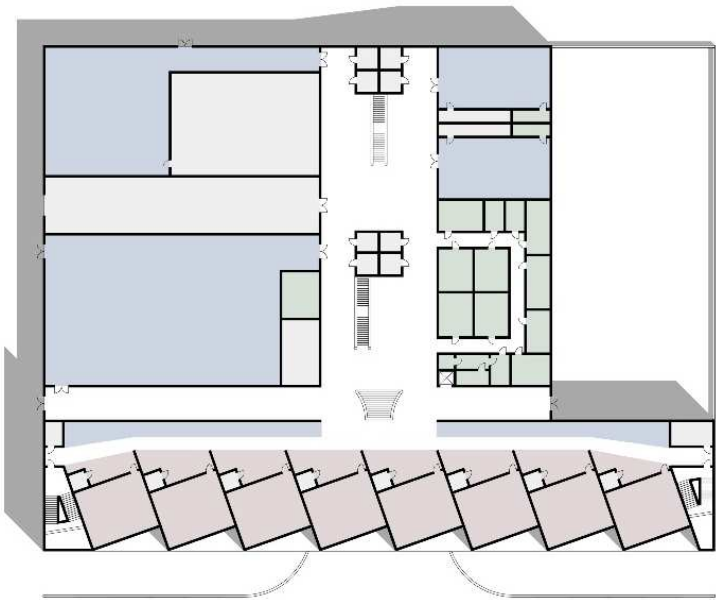
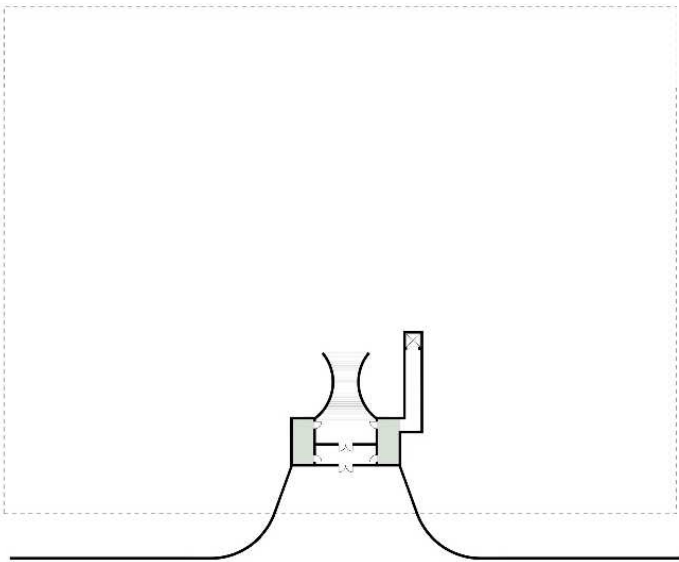
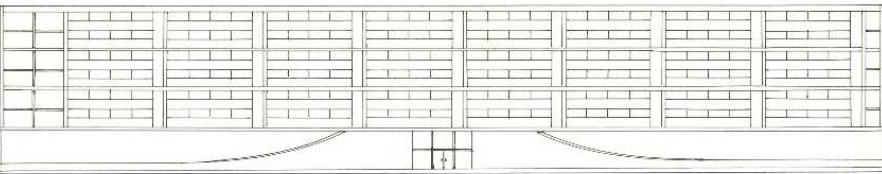
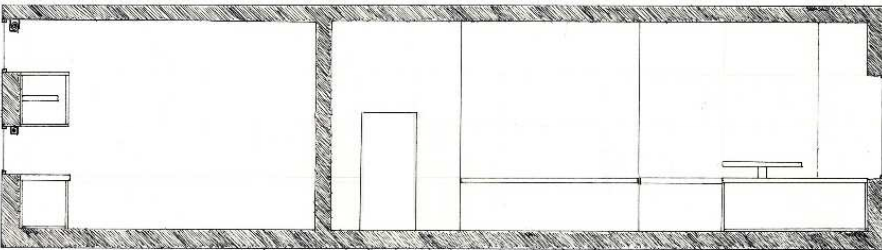
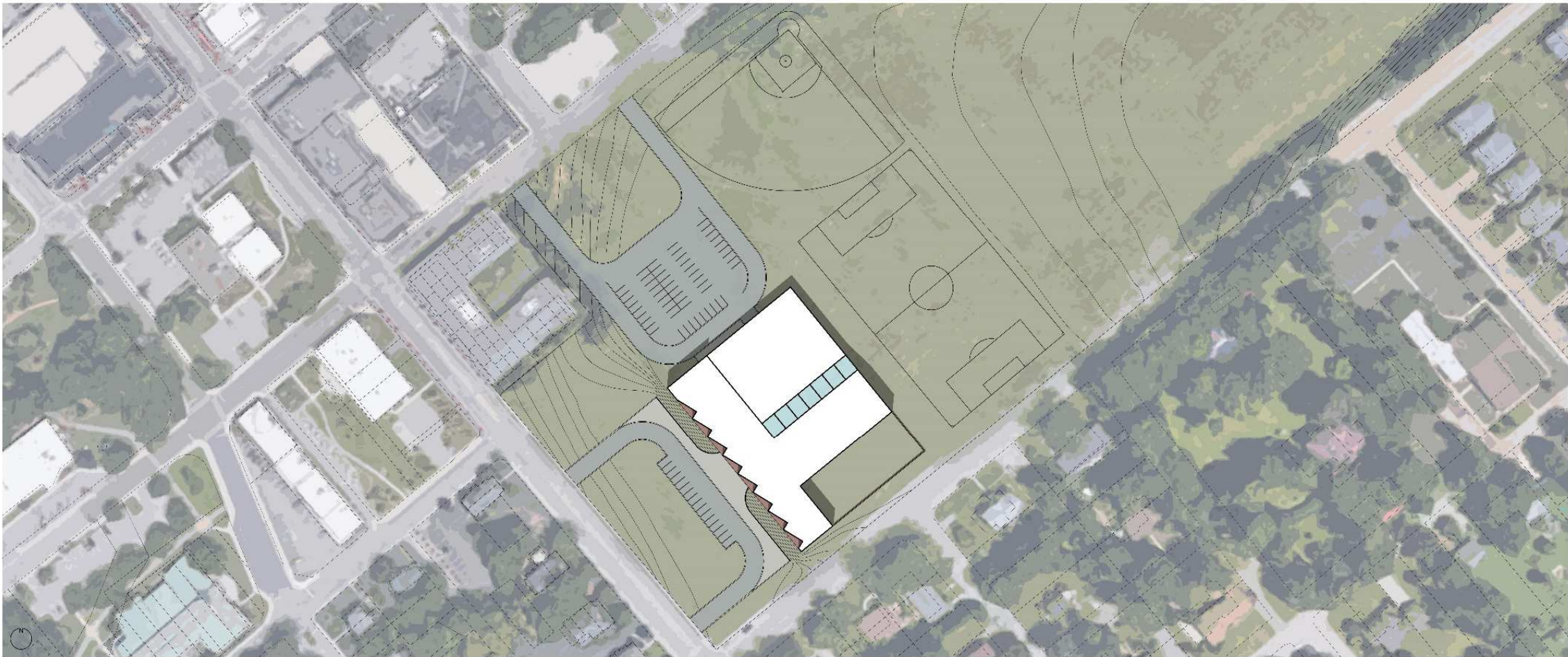
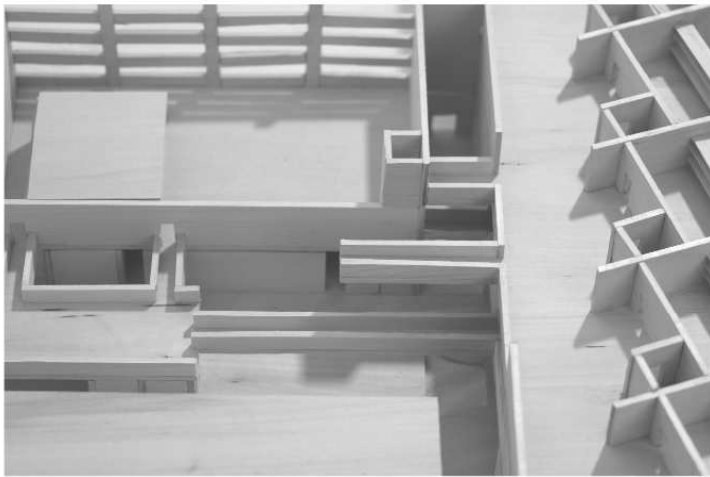
## Judges' Comments:

- Strong collaboration concept
- Comprehensive in its solution
- Tackles marriage of orthogonal geometry and round forms
- Board demonstrates strong graphic sensibility



# Second Place – Jack Littrell

Virginia Tech

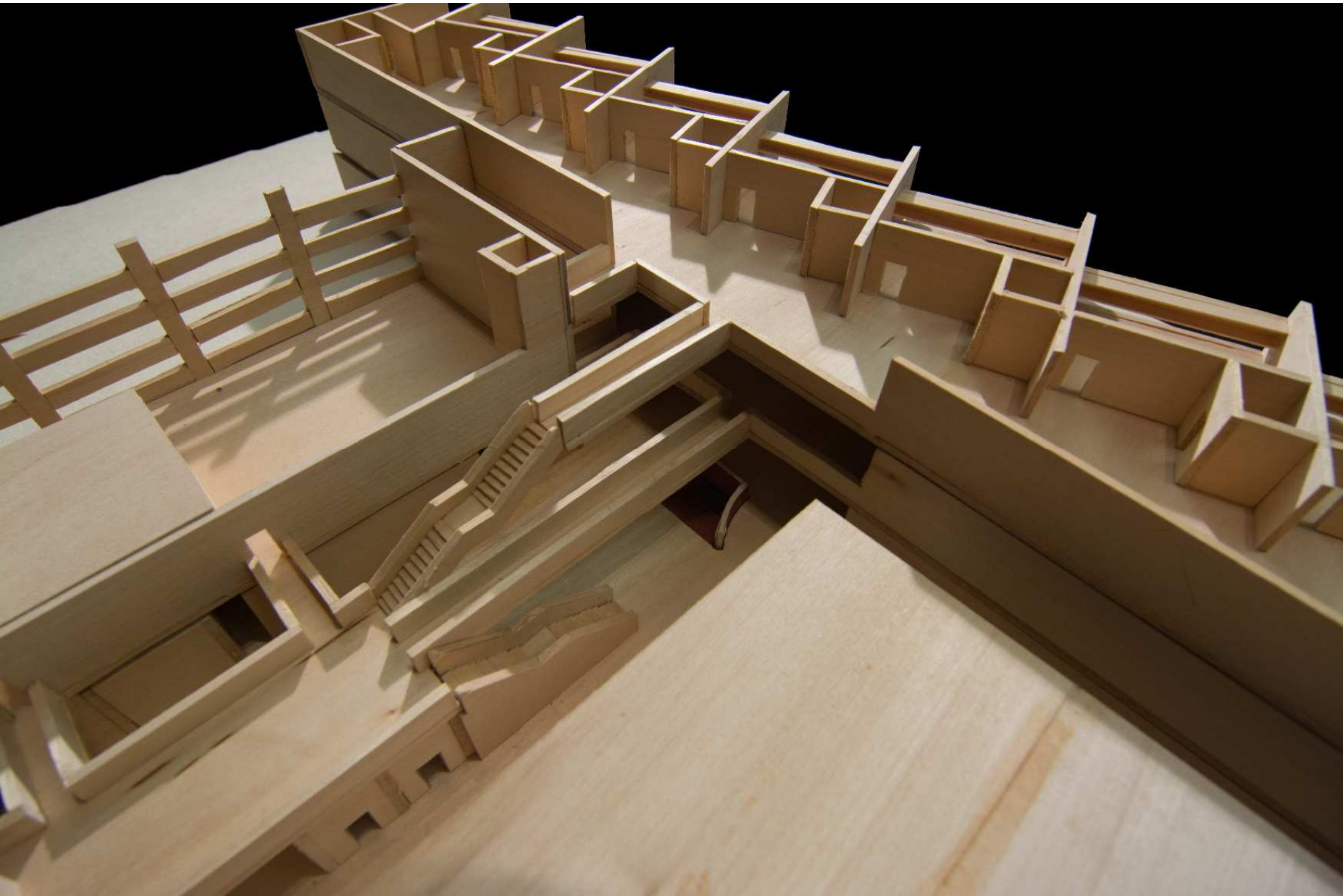


- Classrooms
- Administration
- Shared Spaces



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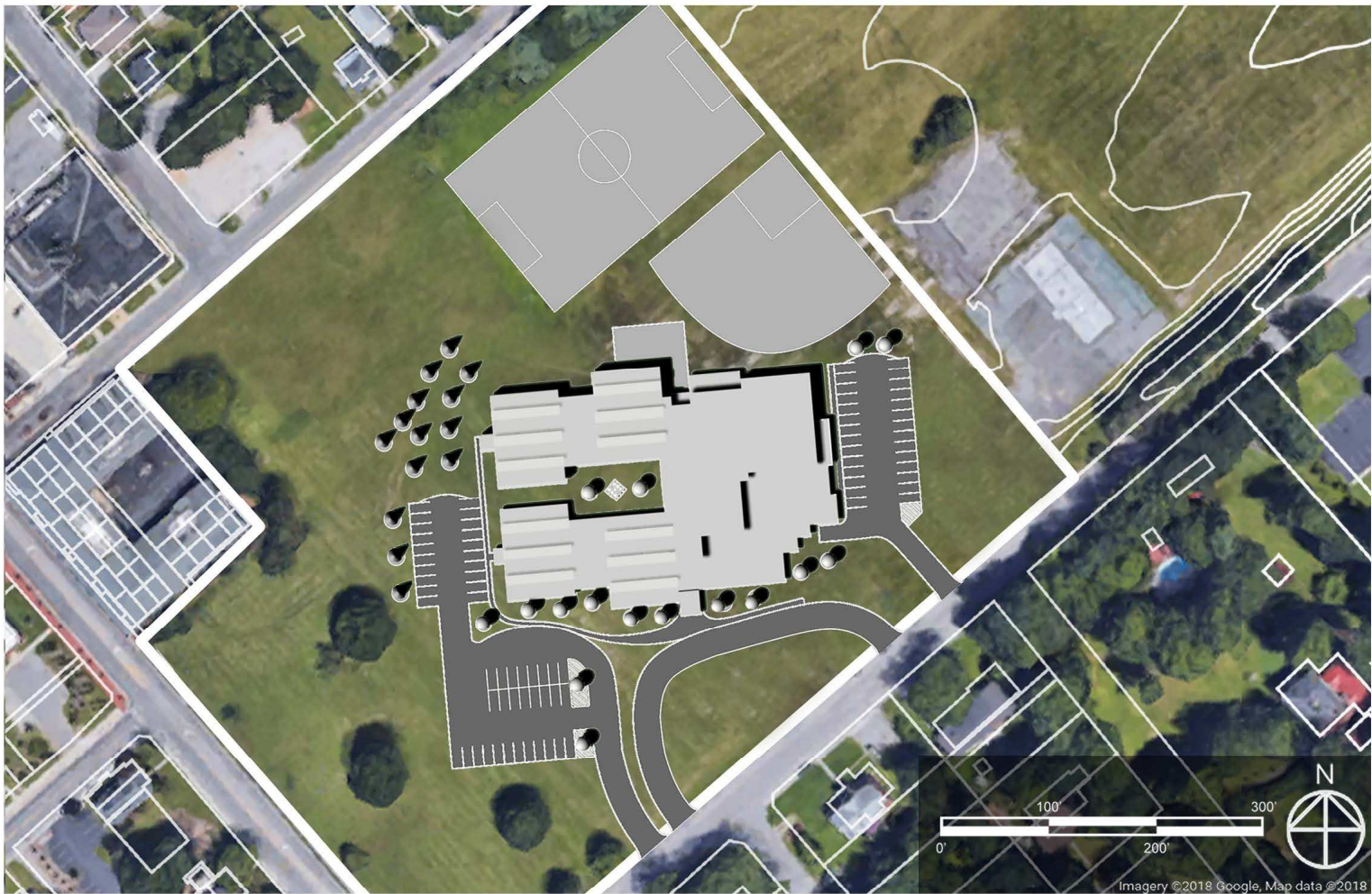
## Judges' Comments:

- Gutsy, unique scheme
- Thoughtful design for classrooms and breakout space
- Strong plan for student circulation and connection

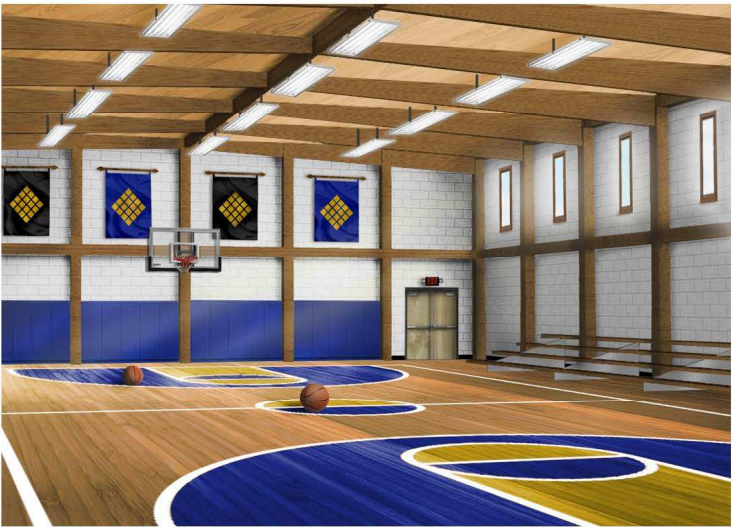
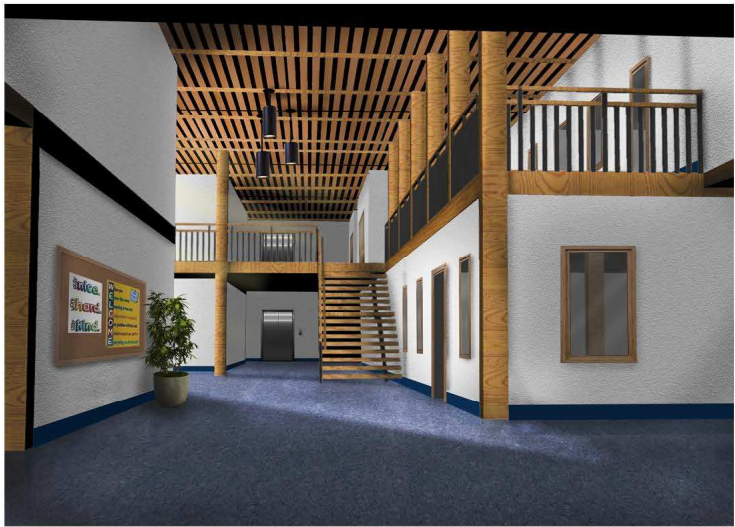


# Honorable Mention – David Martin

Virginia Tech



- A - Gymnasium
- B - Dining Hall
- C - Media Center
- D - Art
- E - Music
- F - Makerspace
- G - Collab. K/1
- H - Collab. 2/3
- J - Collab. 4/5





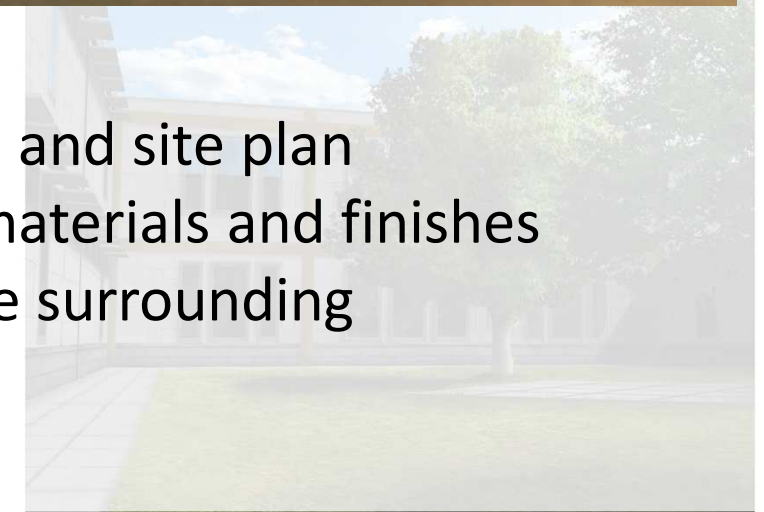
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## Judges' Comments:

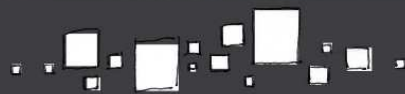
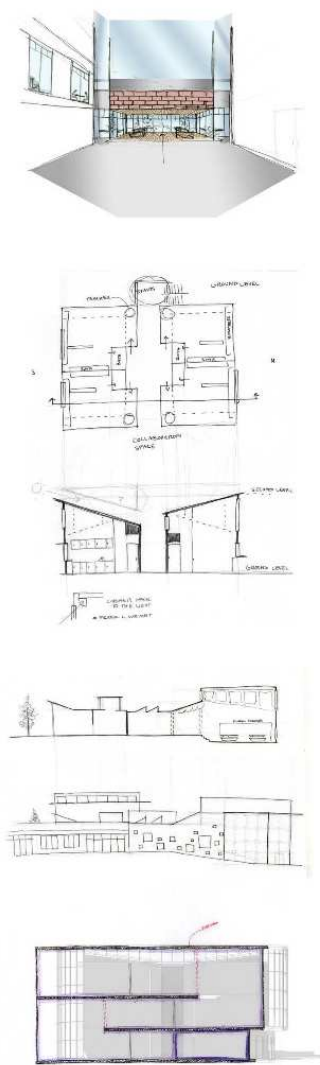
- Well-conceived floor plan and site plan
- Thoughtful approach to materials and finishes
- Building complements the surrounding neighborhood





# Honorable Mention – Bronwyn Redd

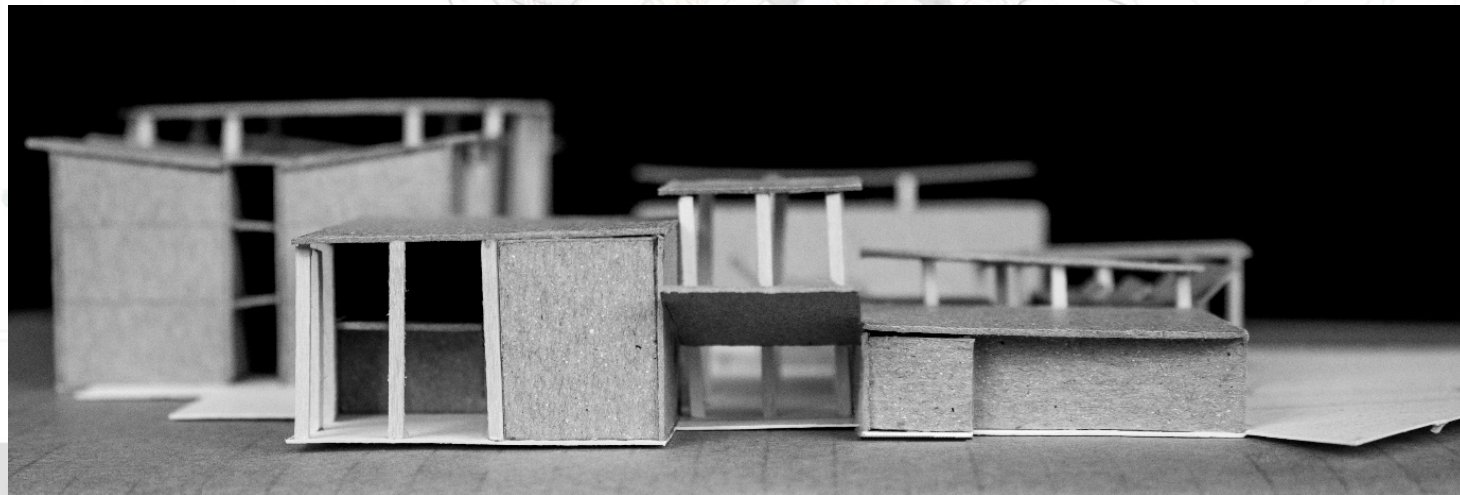
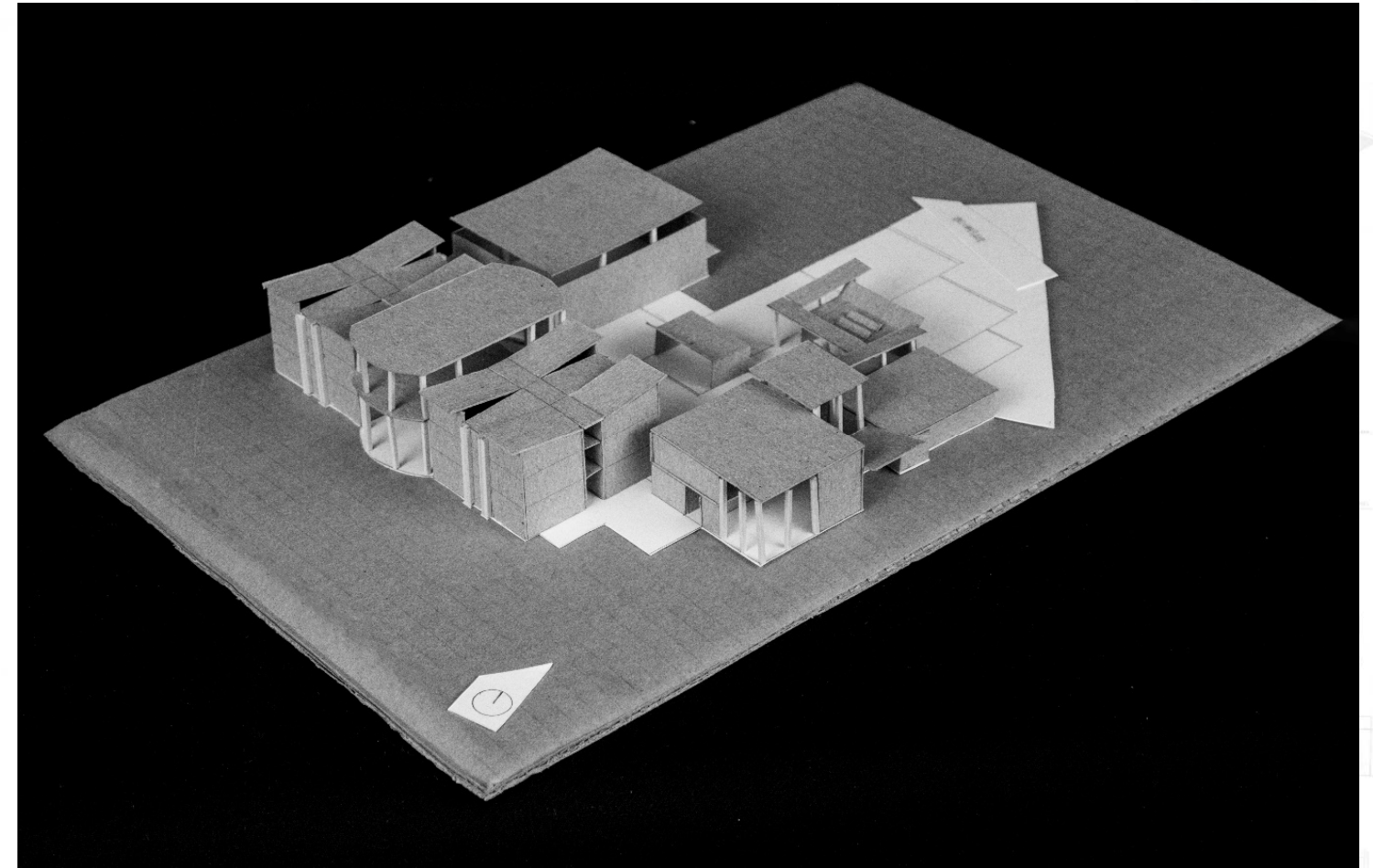
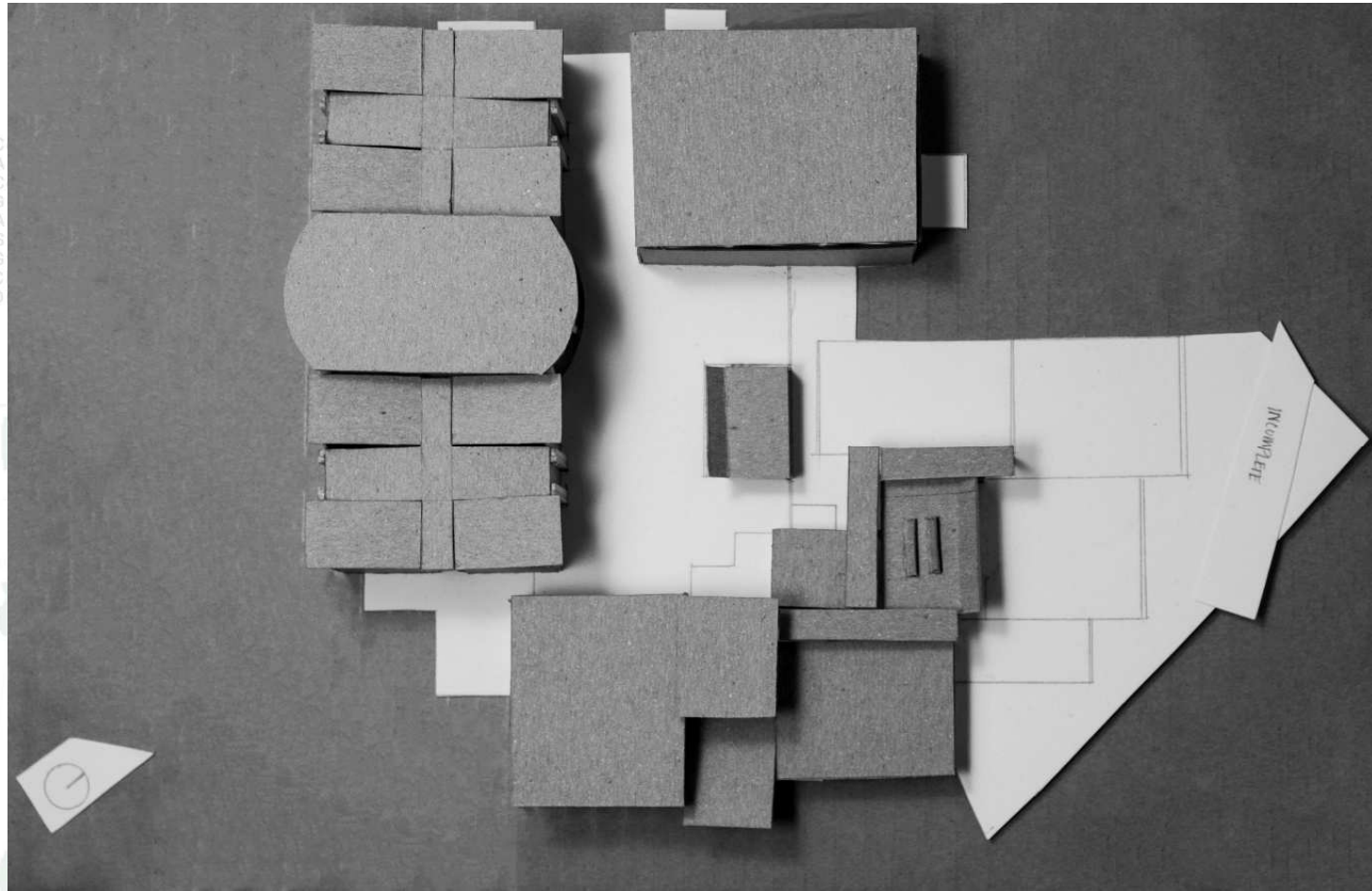
Virginia Tech





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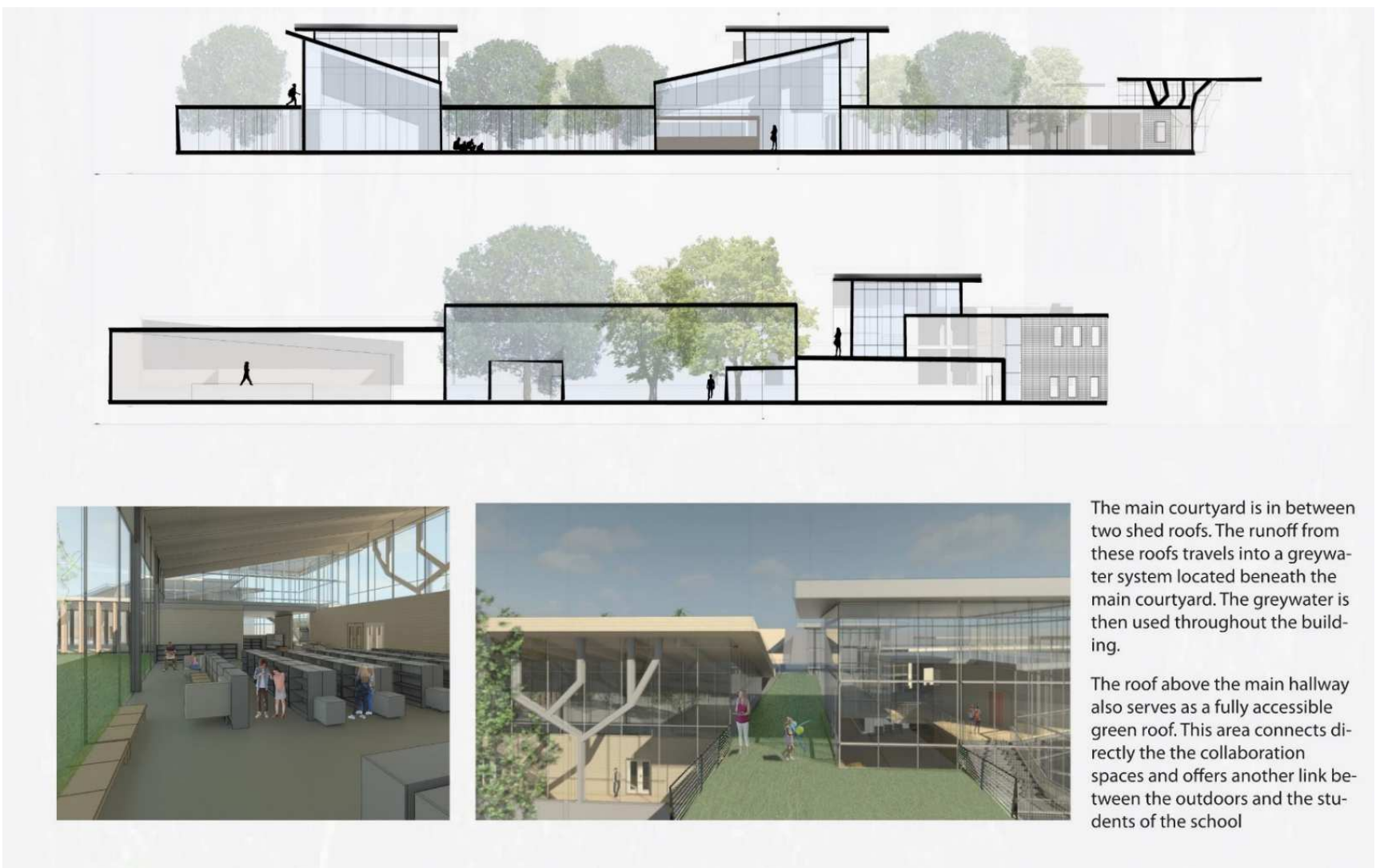
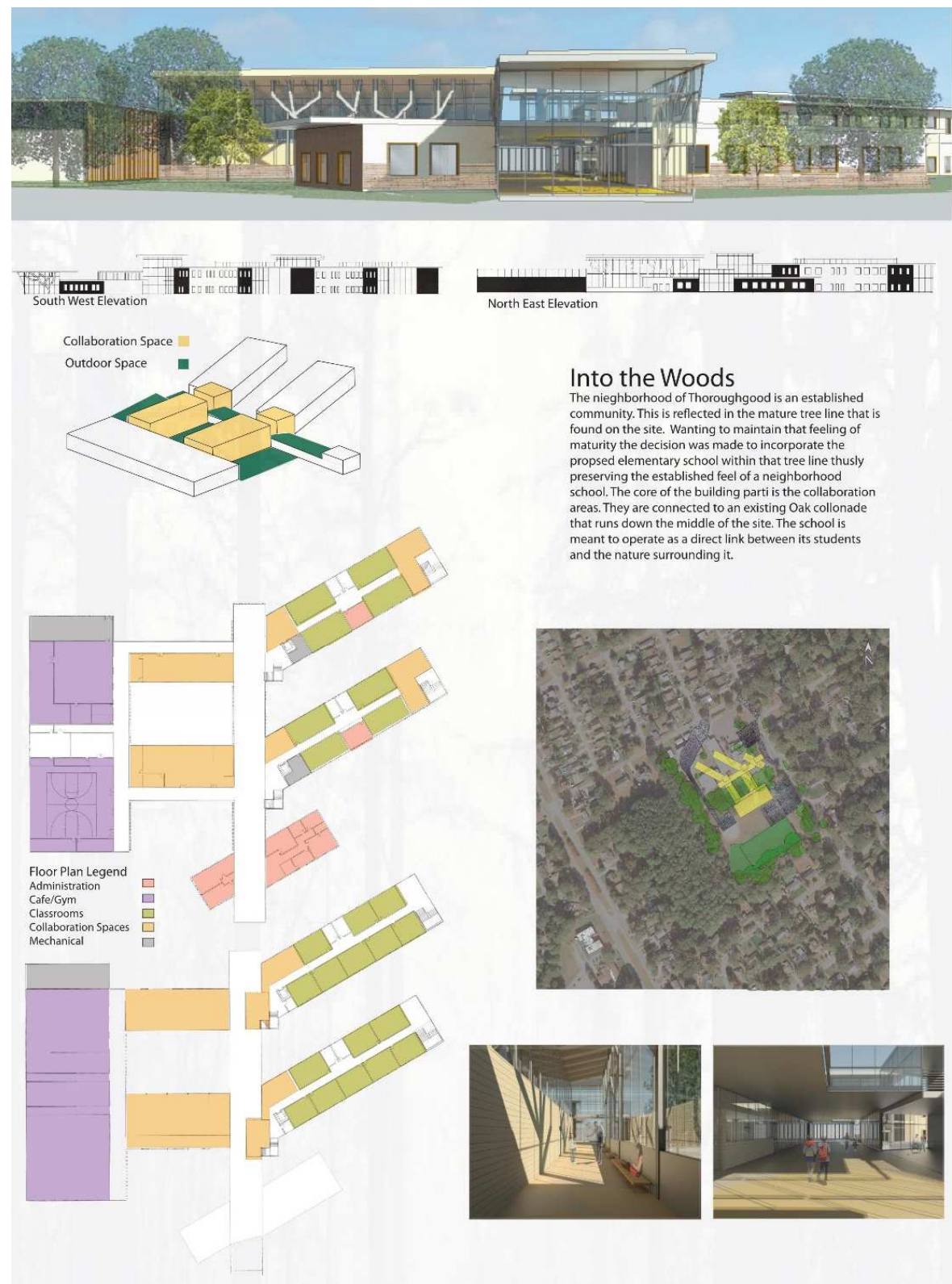
## Judges' Comments:

- Decentralized, campus-style approach differentiates concept
- Great potential in shared outdoor spaces
- Strong sense of community



# First Place – Ashley Montgomery

Hampton University



## Judges' Comments:

- Well thought-out integration of green spaces with collaboration space
- Overall transparency of building ties it to nature
- Good use of symbolism in architecture



# Second Place – Gary Garner

Hampton University

## THE SMART SCHOOL

Design to vitalize a creative mindset, The Smart School embarks on the cutting edge of technology with the aim of creating new and innovative ways to enhance the educational experience. The strong corridors of the school create a strong and precise flow through the school. They are softened with wide collaboration spaces and outdoor learning gardens geared towards producing free flowing thinking. Housing grades K to 5 the Smart School creates an environment that grows and transforms as the students' progress through their grades. This energy efficient institution was built with roof solar panels and sustainable material married together to create an architectural exterior and interior that is pleasing and comfortable.



## Judges' Comments:

- Very clear, well-developed plans
- Strong collaboration spaces
- Met all programmatic requirements
- Thought was given to sustainable materiality



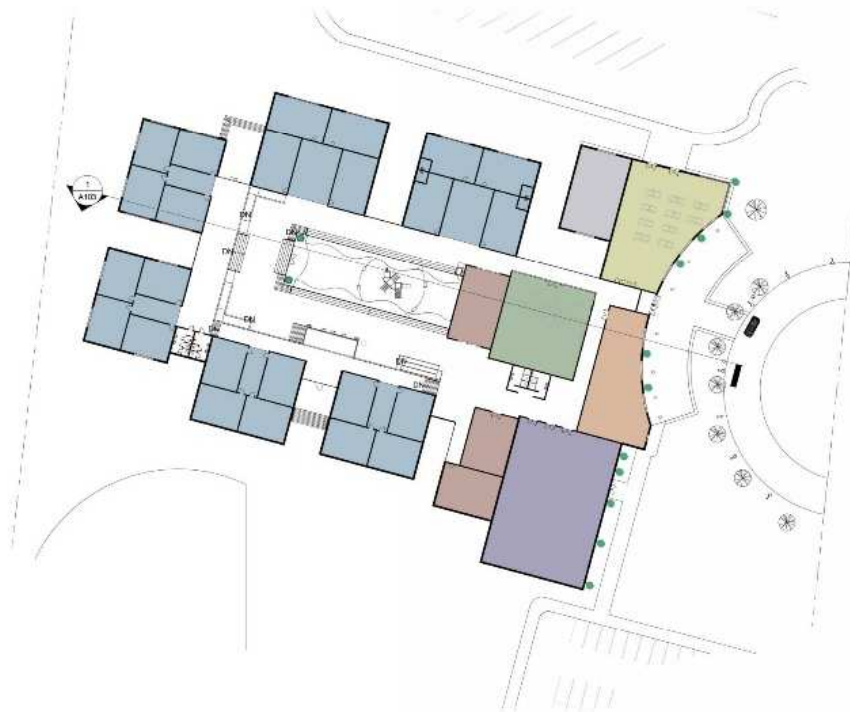
# Honorable Mention – Jameel Tomlinson

Hampton University

## Learning To Grow

The concept that formed this elementary school design is rooted in emphasizing the growth in the students as they move up in grade and gain knowledge. This is reinforced with the integration of the stepping classroom loop, which creates elevation changes between pairs of grade levels. The loop wraps around the large collaboration area which is centrally anchored by the low scale learning stair and elevated courtyard.

Roots from the upper levels slope to direct water to the courtyard space that also acts as a rainwater garden. The gymnasium roof directs rainwater towards a cistern located underneath the highest elevation of the classroom loop. To maximize quality daylighting, the school is oriented to have its longer dimension facing south and integrates multiple clerestories.



## Judges' Comments:

- Exterior elevations provide lots of visual interest
- Raised, glass-enclosed courtyard provides natural light
- Compact plan



North Elevation



East-West Section





# Honorable Mention – Sean Dawly

Hampton University



## “THE CORE”

Much like the human spine, A.D. Ross Elementary uses its “core” hallway to connect the academic spaces as well as the recreational spaces. This main spine creates a strong core of fun interactive learning for students outside the classroom.

The building’s orientation capitalizes on natural daylighting with the many clerestory roofs, which face south. The many roofs provide ample opportunity for the use of solar panels as well as roof gardens to help catch and retain rainwater runoff into underground water cisterns.



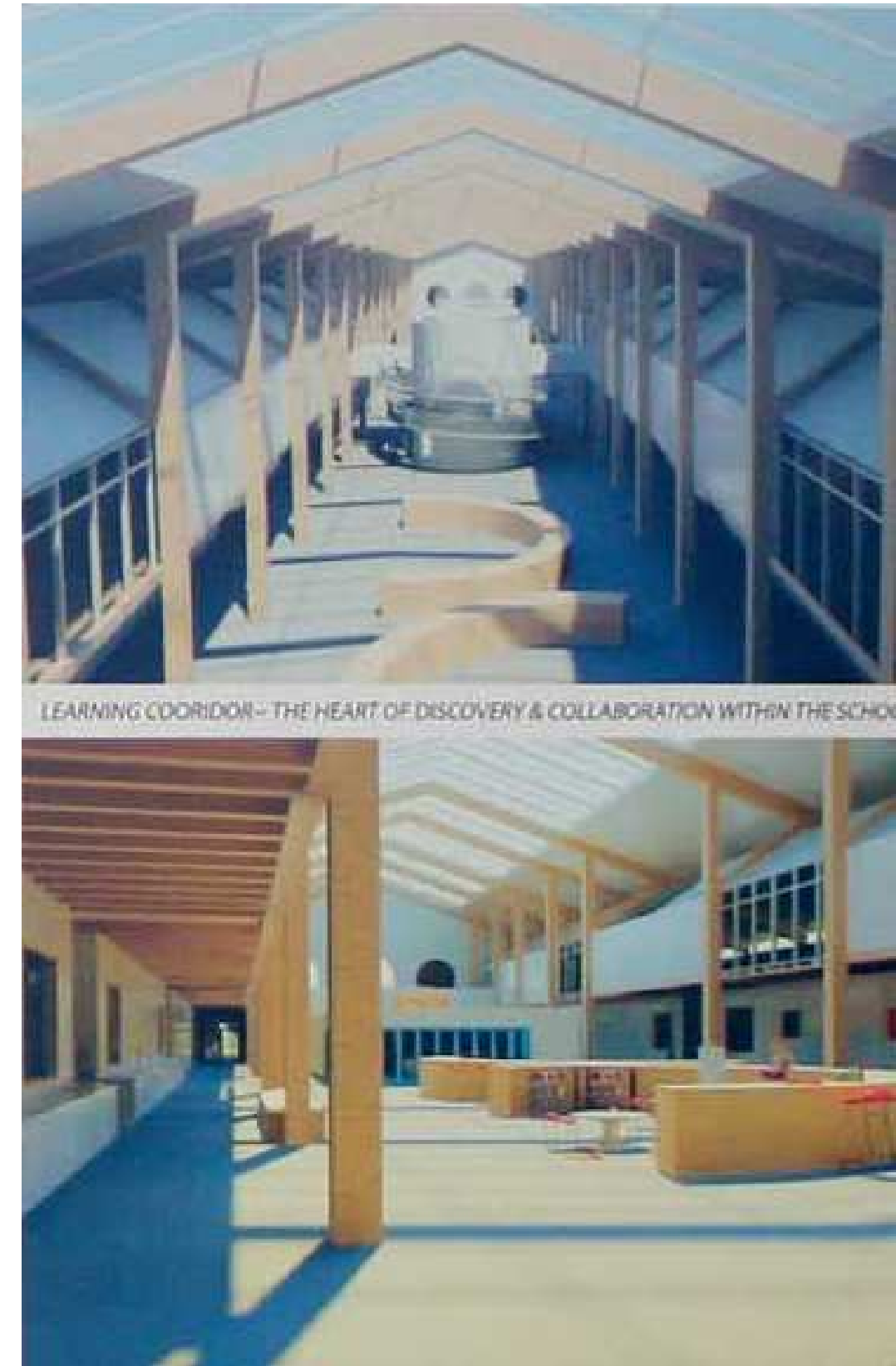
## Judges’ Comments:

- Strong, well-organized plan
- Attractive elevations
- Expansive use of clerestories and balconies gives design airy feel



# Final Jury Comments

- Include more integrated green ideas
- Pay attention to graphic elements that best tell the story
- Make sure plans and renderings are easy to read and detailed
- Overall composition of boards does impact the viewer's impression
- Overall.... Very Impressive!!! Thank you!!!





# Special Thanks to...

- Virginia Tech
  - Professor Elizabeth Grant
- Hampton University
  - Professor Laura Battaglia

