

Committee Minutes

BUILDINGS AND GROUNDS COMMITTEE

March 21, 2016

Joint Open Session with Student Affairs and Athletics

Board Members Present: Dr. Nancy Dye, Mr. William Fairchild, Mr. Michael Quillen, Rev. Wayne Robinson, Mr. Mehul Sanghini, Mr. Steve Sturgis, Ms. Morgan Sykes

VPI&SU Staff and Guests: Dr. Sharikka Adams, Mr. Whit Babcock, Mr. John Ballein, Dr. Gary Bennett, Mr. Tom Brown, Ms. Katie Bylenga, Ms. Jade Carcamo, Ms. Taran Cardone, Ms. Heather Evans, Mr. Ted Faulkner, Dr. Eleanor Finger, Dr. Chris Flynn, Mr. Bill Foy, Dr. Lance Franklin, Maj. Gen. Randy Fullhart, Mr. Tom Gabbard, Dr. Martha Glass, Ms. Caroline Green, Ms. Hunter Gresham, Ms. Nannette Gordon, Mr. Hikmet Gursoy, Ms. Amy Hogan, Dr. Robyn Hudson, Mr. Byron Hughes, Ms. Angela Kates, Ms. Frances Keene, Dr. Chris Kiwus, Mr. Bill Lansden, Ms. Leigh LaClair, Ms. Gabby Marquez, Ms. Kim O'Rourke, Dr. Patty Perillo, Mr. Charles Phlegar, Ms. Tara Reel, Mr. Aaron Reistad, Ms. Bradi Rhodes, Mr. Kyle Rose, Mr. Rohsaan Settle, Dr. Frank Shushok, Angela Simmons, Jason Soileau, Tricia Smith, Penny White, Dr. Sherwood Wilson, Chris Wise

1. **Intercollegiate Athletics Report (Part A: Facilities).** The committee met in joint session with the Student Affairs and Athletics Committee to receive a presentation on the facilities master plan for Intercollegiate Athletics. Athletic Director Whit Babcock and Tom Gabbard, senior associate athletic director overseeing facilities and operations, reviewed recently completed projects (such as Thompson Field, the Marching Virginians Practice Facility, and the Indoor Practice Facility) and current projects already underway (graphic package enhancement to the Merryman Athletic Center and the Olympic Sports entrance), before reviewing future projects under consideration. Future proposals include renovations to Rector Fieldhouse, the Burrows-Burleson Tennis Center, English Field, Cassell Coliseum seating, and the Hahn-Hurst weight room. In addition, the athletic facilities master plan calls for a softball hitting facility, a re-classification of the Bowman Room as a center for student-athlete nutrition and donor hospitality, an upgrade to the Thompson Field video/score board, the Garnett Smith Golf Simulator and men's and women's golf offices, a new entrance for the west-side of Cassell Coliseum, a student-athlete development suite, South Endzone enhanced serving areas, a realignment of the cross country course, and the Southgate Interchange project.

Open Session

Board Members Present: Mr. William Fairchild - Chair, Mr. Michael Quillen, Mr. Steve Sturgis

VPI&SU Staff: Ms. Jennifer Altman, Deputy Chief Mac Babb, Mr. John Ballein, Dr. Yvan Beliveau, Dr. Tanyel Bulbul, Mr. Bob Broyden, Ms. Delia Chandler, Ms. Vickie Chiocca, Mr. Van Coble, Chief Kevin Foust, Dr. Lance Franklin, Mr. Tom Gabbard, Mr. Mark Gess, Dr. David Goldsmith, Mr. Mark Helms, Mr. Rick Hinson, Ms. Angela Kates, Dr. Chris Kiwus, Dr. Brian Kleiner, Ms. Leigh LaClair, Mr. Brian Lee, Mr. Mike Mulhare, Ms. Laura Neff-Henderson, Ms. Kim O'Rourke, Mr. Charles Phlegar, Dr. Timothy Sands, Ms. Kayla Smith, Mr. Jason Soileau, Mr. Ken Smith, Ms. Tracy Vosburgh, Mr. Luke Watson, Dr. Lisa Wilkes, Dr. Sherwood Wilson

Guests: Mr. John Angle, Mr. Scott Brame, Mr. Paul Galloway, Ms. Jennifer Johnson, Mr. John Lawson, Mr. Raynald Morris, Ms. Rebekah Paulson, Mr. Dwayne Sellars, Mr. Glenn Thompson, Ms. Beth Umberger.

1. **Virtual Tour of Classroom Building:** The Committee received a presentation from representatives of W.M. Jordan Company that included an overview of the use of current and future technologies in the design and construction of the Indoor Athletic Training Facility and the Classroom Building. Several interactive technologies that facilitate in the design-build process were demonstrated, including a virtual reality tour of the Classroom Building.
2. **Opening Remarks and Approval of Minutes of the November 9, 2015 Meeting and the November 20, 2015 Special Meeting:** The Committee approved the minutes of the November 9, 2015 meeting and the November 20, 2015 special meeting.
3. **Update on Capital Budget from the General Assembly and Master Plan:** The Committee received an update on the capital budget from the 2016 session of the Virginia General Assembly. The budget included design and construction funding for four capital projects at Virginia Tech, pending approval by the Governor.

The Virginia Tech Master Plan is scheduled for a soft kick-off in April. The revised Master Plan scope will include an in-depth space analysis to enable more efficient space utilization. The master plan will incorporate a student life component and investigate opportunities to create an “innovation district” concept in support of “Beyond Boundaries”. Additionally, a significant infrastructure review, including a comprehensive storm water management process; land-use analyses of existing and planned precincts; and a physical accessibility assessment in support of the “InclusiveVT” goals will be part of the plan. Roanoke and the National Capital Region campuses will be included in the plan review, creating a northern and southern “binary star” model that will support the destination areas and global engagement. More information will be presented at the June 2016 Board of Visitors meeting.

- * 4. **Resolution for Amendment of Guidelines for Projects under the Public-Private Education Facilities and Infrastructure Act (PPEA) of 2002:** The Committee approved a resolution revising the Guidelines for Projects under the Public-Private Education Facilities and Infrastructure Act (PPEA) of 2002.
5. **Design Preview Rector Field House:** The Committee approved the design graphics, with one minor comment, for Phase 1 of the Athletics Facilities Improvements project that will consist of a major addition to the east side of the Rector Field House and a small addition on the north side. This design is the first of four phased building additions. The renovated and expanded Rector Field House will house improved Olympic indoor sports facilities, including track and field and softball batting, fielding, and practice facilities. Facilities will work with the architect on modifications to the solid pre-cast panel on the northeast corner.
6. **Eastern Virginia Agricultural Research and Extension Center (AREC) Cost Analysis:** The Committee received an update on the Eastern Virginia Agricultural Research and Extension Center (AREC) Cost Analysis. The university has identified several cost improvement measures to the design-build process for less complex structures that are considered capital projects, specifically project(s) consisting of new construction of 5,000 square feet or greater, but costing less than \$2 million. The Committee members emphasized

the importance of minimizing design requirements that would adversely limit solicitation of pre-engineered structures/components.

- 7. Capital Project Status Report:** The Committee received an update on the status of all capital projects which included seven projects in design and six projects under construction.

Joint Open Session with Finance and Audit:

Board Members Present: Mr. Jim Chapman, Mr. Dan Cook - staff representative, Mr. William Fairchild, Mr. B. K. Fulton, Mr. Charles T. Hill, Ms. Deborah Petrine, Mr. Mike Quillen, Mr. Steve Sturgis, Mr. Dennis Treacy, Mr. Horacio Valeiras

VPI & SU Staff: Ms. Beth Armstrong, Mr. Mac Babb, Mr. Jared Bourne, Mr. Bob Broyden, Mr. Matt Chan, Ms. D'Elia Chandler, Mr. Al Cooper, Mr. John Cusimano, Mr. Brian Daniels, Dr. John Dooley, Dr. Guru Ghosh, Ms. Kay Heidbreder, Ms. Mary Helmick, Mr. Tim Hodge, Ms. Elizabeth Hooper, Ms. Katie Huger, Ms. Courtney Hughes, Ms. Angela Kates, Mr. Chris Kiwus, Ms. Sharon Kurek, Ms. Leigh LaClair, Ms. Nancy Meacham, Dr. Scott Midkiff, Mr. Ken Miller, Ms. Terri Mitchell, Ms. Laura Neff-Henderson, Ms. Kim O'Rourke, Mr. Mark Owczarski, Dr. Scot Ransbottom, Dr. Timothy Sands, Ms. Savita Sharma, Mr. M. Dwight Shelton Jr., Mr. Ken Smith, Mr. Jason Soileau, Mr. Brad Sumpter, Ms. Tracy Vosburgh, Dr. Sherwood Wilson, Mr. Chris Wise, Mr. Chris Yianilos

- *1. Approval of Resolution for Planning Authorization for O'Shaughnessy Hall Renovation:** The Committees reviewed for approval a resolution for planning authorization for O'Shaughnessy Hall Renovation. O'Shaughnessy Hall was built in 1966 and is approximately 69,200 gross square feet with housing capacity for about 341 students. The facility has received few improvements since its original construction, does not meet student expectations, and carries a significant deferred maintenance backlog. Attracting high quality students in higher education is competitive, and the Housing program is often a critical factor for students because of its link to quality of life and academic support. The Board of Visitors approved the University's 2016-2022 Capital Plan on June 1, 2015, including a nongeneral fund project to renovate O'Shaughnessy Hall.

Converting O'Shaughnessy Hall into a living-learning/residential college format will modernize the program space within the building with minimal loss of beds. The programmatic changes include the creation of a faculty principal apartment, five to seven faculty/staff offices, a classroom, and common meeting rooms for student activities. The project scope includes updating the building's interior; residential rooms; bathrooms; mechanical, electrical, and plumbing systems; elevators; addressing other deferred maintenance items as needed; and installing air conditioning.

This request is for a \$1.75 million planning authorization to complete working drawing documents for the O'Shaughnessy Hall Renovation project. As with all self-supporting projects, the university has developed a financing plan to provide assurance regarding the financial feasibility of this planning project.

The Committees recommended the Resolution for Planning Authorization for O'Shaughnessy Hall to the full Board for approval.

- *2. Approval of Resolution for Planning of Student Wellness Services:** The Committees reviewed for approval a resolution for planning of student wellness services. In March 2014,

the Board of Visitors approved a \$200,000 planning authorization to expand and improve student health and counseling services at the Schiffert Health Center. In June 2015, the Board of Visitors approved a supplemental \$2.871 million for construction to build a 3,500 gross square foot one-story addition to the east wing of McComas Hall (Schiffert Health Center) and to renovate 1,700 square feet of interior space of the existing facility. At the time of construction approval, the project was in the preliminary design phase with an expected construction bid date of December 2015.

During design work and prior to construction, the university conducted a program review update, including considerations to accommodate enrollment growth, which showed the capacity provided by the project underway would not be sufficient to accommodate the foreseeable demand for counseling and health services. The rising demand for services within the current population and projected enrollment growth require more than double the approximately 5,200 square feet of scope in the existing project.

In consideration that the existing project does not meet foreseeable student needs, the university halted design work in November, the project has not been bid, and alternatives are being considered. Permanent solutions for wellness services, particularly health and counseling services will likely take three to four years to implement. The university is exploring temporary solutions to meet student demand for services until a permanent solution is available.

This request is for approval to utilize the \$2.757 million available balance from the \$3.071 million authorized for the Health Center Improvements project to plan a new and comprehensive solution for student wellness services.

The Committees recommended the Resolution for Planning of Student Wellness Services to the full Board for approval.

- *3. Approval of Resolution for the Eastern Shore AREC Equipment Storage Building:** The Committees reviewed for approval a resolution for planning authorization for the Eastern Shore Agricultural Research and Extension Center (AREC) Equipment Storage Building. The Eastern Shore AREC is located in Painter, Virginia and is part of the university's Extension and Research program which is overseen by the College of Agriculture and Life Sciences. The current Eastern Shore AREC facilities include approximately 39,200 gross square feet of space distributed among 11 buildings with an average age of 50 years-old. The spaces include offices, laboratories, a small auditorium, conference rooms, storage, and workshops. The AREC's existing facilities are not adequate to appropriately store the equipment and a new structure is required. A project for the Eastern Shore Agriculture Research and Extension Center (AREC) Equipment Storage Building was included on the 2016-2022 Six-Year Capital Outlay Plan approved by the Board of Visitors.

The AREC, working with the college and the university, has developed the specifications for the necessary facilities to house and secure the equipment. The program includes an approximately 9,300 gross square foot, single story structure located on site and adjacent to the AREC's other facilities. The exterior shell of the facility would be a pre-engineered metal building standing on a concrete slab with insulation and heating, but no cooling.

The request is for a \$46,000 planning authorization to complete bid documents for the project. As with all self-supporting projects, the university has developed a funding plan to provide assurance regarding the financial feasibility of the project.

The Committees recommended the Resolution for Planning the Eastern Shore AREC Equipment and Storage Building to the full Board for approval

There being no further business, the meeting adjourned at 11:52 a.m.

***Requires full Board approval.**



**VIRGINIA TECH
ATHLETICS**

**Intercollegiate Athletics report to the
Student Affairs & Athletic Committee of
the Board of Visitors**

March 21, 2016



VIRGINIA TECH ATHLETICS

FACILITIES MASTER PLAN



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Our mission...



Virginia Tech Athletics is committed to excellence, both academically and athletically, and to the personal development of our student-athletes. In the spirit of Ut Prosim, we stand together to serve and represent our university and community with integrity and respect.

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RECENTLY COMPLETED PROJECTS



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RECENTLY COMPLETED PROJECTS

GRAPHICS PACKAGES

Quillen Family Academic
Center for
Student-Athletes

Thompson Field
(Men's/Women's Soccer
and Lacrosse)

Wrestling Training
Room & Locker Room

Hahn-Hurst Basketball
Practice Facility

ACADEMIC CENTER

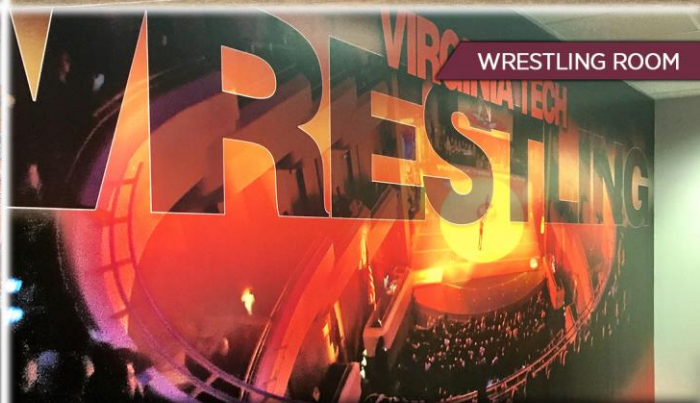


HAHN-HURST

THOMPSON FIELD



WRESTLING ROOM



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RECENTLY COMPLETED PROJECTS

Marching Virginians Center **PRACTICE FACILITY**



MARCHING VIRGINIANS CENTER

Upgraded Entryway **HOKIE VILLAGE**



HOKIE VILLAGE ENTRANCE

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**FACILITIES
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INDOOR PRACTICE FACILITY

(available for use by all sports)



INDOOR PRACTICE FACILITY

COURTSIDE AT CASSELL

Men's/Women's Basketball
Wrestling
Volleyball



COURTSIDE AT CASSELL

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RECENTLY COMPLETED PROJECTS

West Side Indoor Clubs **LANE STADIUM**



Re-Sealing of South Endzone **LANE STADIUM**



RECENTLY COMPLETED PROJECTS

ADA & Press Row Enhancements

Virginia Tech Carilion Court at CASSELL COLISEUM



Frank Moseley Soccer & Lacrosse Practice Field

TURF REPLACEMENT



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COMPLETED PROJECTS

Graphics Package TECH SOFTBALL PARK

PROJECT DETAILS:

Banners representing the Softball program will wrap the entire back of the stadium creating a welcoming fan experience. The wraps will also provide a pleasant site line, while preventing a view of the back of the bleacher complex.

COST:

To be determined

TARGETED COMPLETION:

February 2016

TECH SOFTBALL PARK



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CURRENT PROJECTS



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CURRENT PROJECTS

Graphics Package **MERRYMAN ATHLETIC CENTER**

PROJECT DETAILS:

Enhancement of the entrance to the athletic complex. Dramatic displays of the Football program's historical achievements, famous student-athletes, tributes to coaches, and memorabilia. The package will include interactive stations, current information and highlights, and modernized interior finishes.

COST:

\$2 million

(includes Olympic Sports package)

TARGETED COMPLETION:

Summer 2016

MERRYMAN ATHLETIC CENTER



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Graphics Package OLYMPIC SPORTS ENTRANCE

PROJECT DETAILS:

Project will occur simultaneously with Merryman graphics project. Graphics will represent all of our sports other than Football and provide a dramatic entrance to the athletic complex for student-athletes.

COST:

A portion of the total Merryman graphics project budget of \$2 million

TARGETED COMPLETION:

Summer 2016





FUTURE PROJECTS UNDER CONSIDERATION



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**FACILITIES
MASTER PLAN**

Rector Fieldhouse RENOVATION

PROJECT DETAILS:

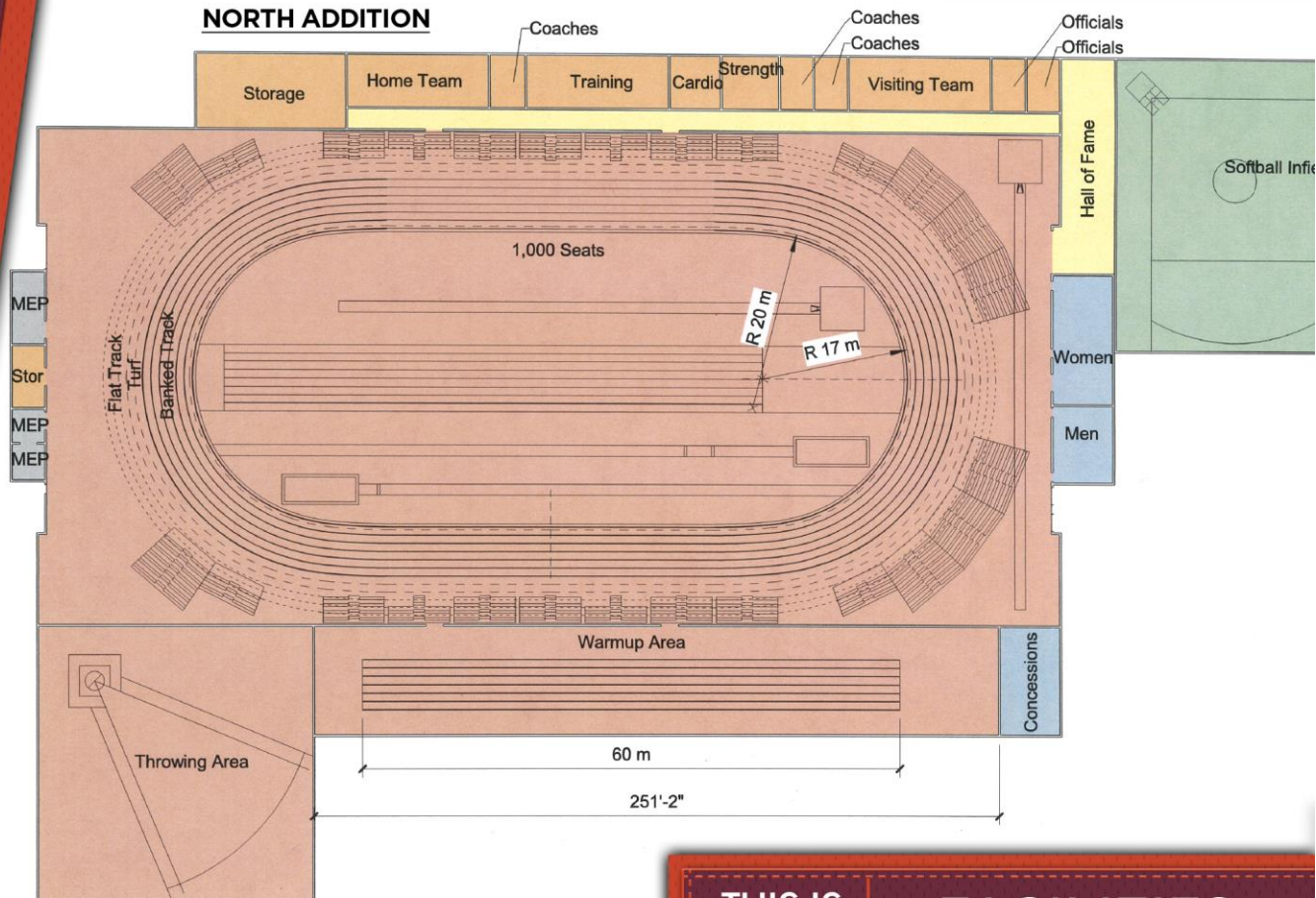
The final phase of the Rector Fieldhouse renovation includes an addition to the north side of the current structure. As shown in the diagram (orange area), the new addition will house a cardio room, strength room, training area and storage. The addition will also provide brand new locker rooms that will replace the trailers currently used as in-game locker rooms for both Soccer & Lacrosse. The increase in space will be beneficial when hosting ACC Indoor Track Championships and other large-scale indoor meets.

COST:

Included in total cost of Rector renovation

TARGETED COMPLETION:

Fall 2017



Burrows-Burleson Tennis Center RENOVATION

Project details:

A renovation enhancing multiple areas, once completed Burrows-Burleson Tennis Center will feature expanded locker rooms, team lounges, and an improved fan viewing area. Also, new to the facility will be a medical training support area.

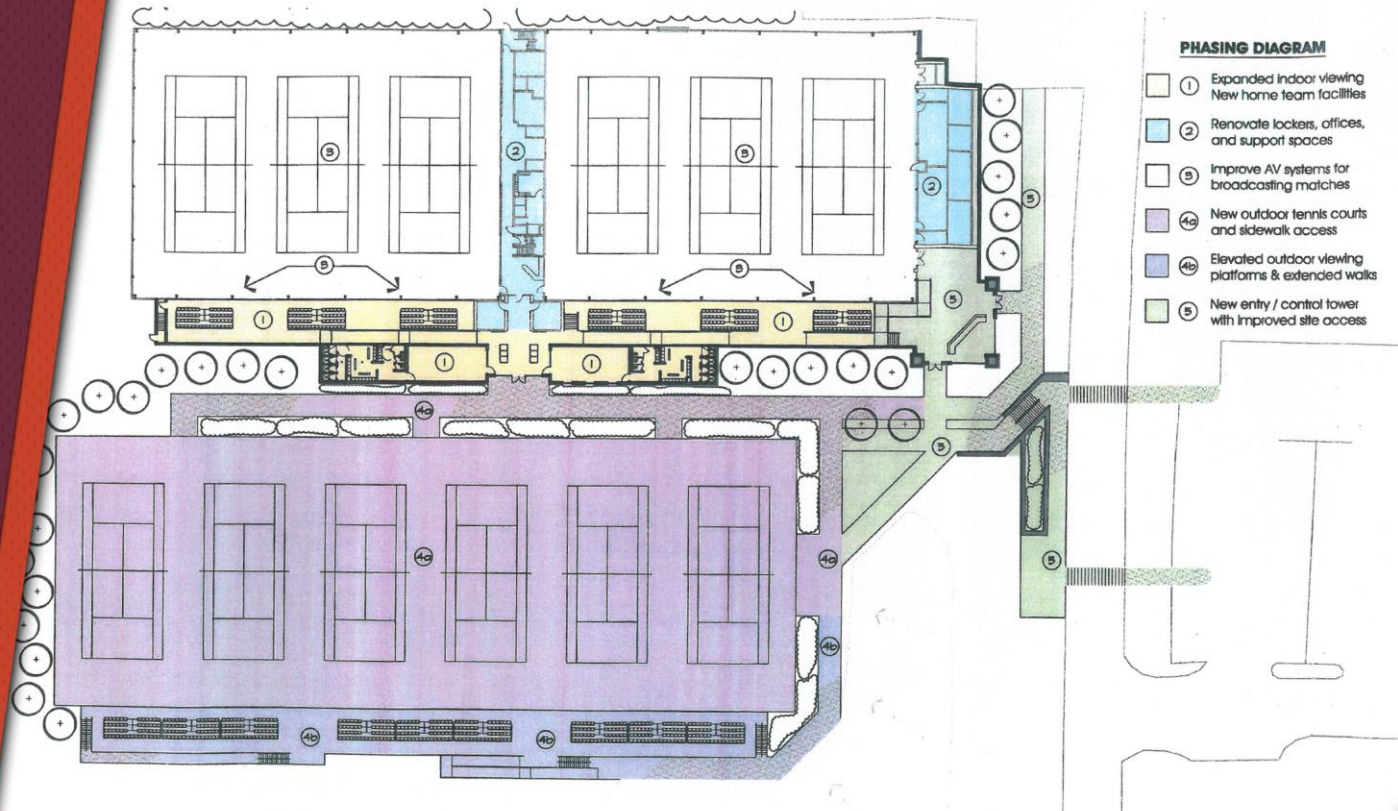
(yellow area represents renovation site)

Cost:

\$2 million

TARGETED COMPLETION:

Spring 2017



FUTURE PROJECTS
UNDER CONSIDERATION

English Field RENOVATION

PROJECT DETAILS:

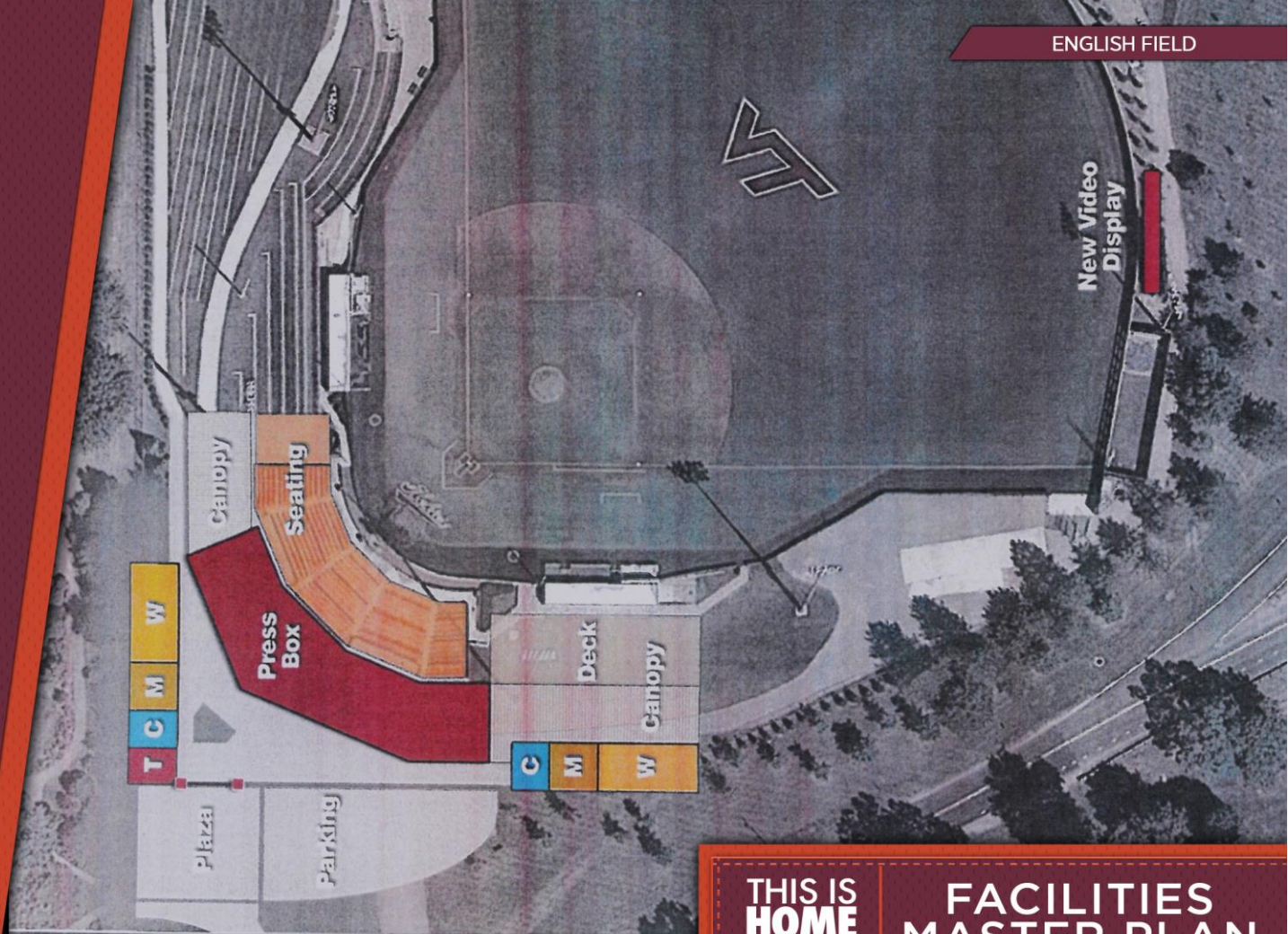
When you play in America's best baseball conference, it demands that your facility lives up to the highest of standards. That's why English Field is embarking on a total facelift and upgrade that will ensure Virginia Tech student-athletes, alumni, fans and the community at large, one of the best baseball experiences in the nation.

COST:

To be determined

TARGETED COMPLETION:

To be determined



ENGLISH FIELD

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English Field RENOVATION

PROJECT DETAILS:

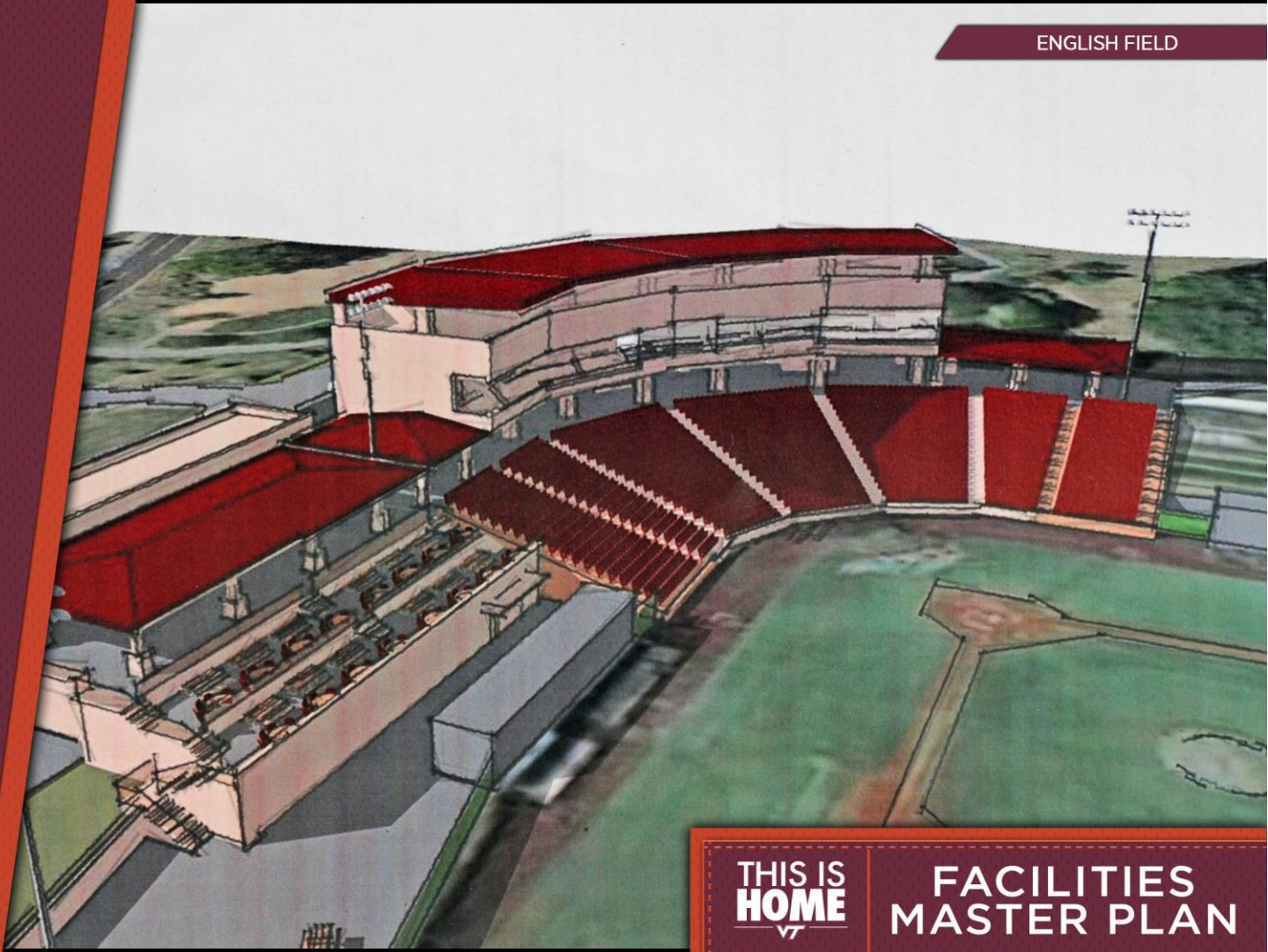
When you play in America's best baseball conference, it demands that your facility lives up to the highest of standards. That's why English Field is embarking on a total facelift and upgrade that will ensure Virginia Tech student-athletes, alumni, fans and the community at large, one of the best baseball experiences in the nation.

COST:

To be determined

TARGETED COMPLETION:

To be determined



FUTURE PROJECTS
UNDER CONSIDERATION

Cassell Coliseum Seating RENOVATION

PROJECT DETAILS:

The plan is to begin to replace a portion of the original seats with a theater-style seat. This project will be done in phases and the first phase will begin in the summer of 2016. The number of seats replaced at each phase is yet to be determined.

COST:

To be determined in 2016

TARGETED COMPLETION:

First seats installed by
Summer 2016

CASSELL COLISEUM



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FUTURE PROJECTS
UNDER CONSIDERATION

BOWMAN ROOM

Center for Student-Athlete Nutrition
& Donor Hospitality

PROJECT DETAILS:

A healthy body and mind start with proper nutrition. To ensure peak performance in both the classroom and on the field, Virginia Tech will provide a training table that properly powers the Hokies.

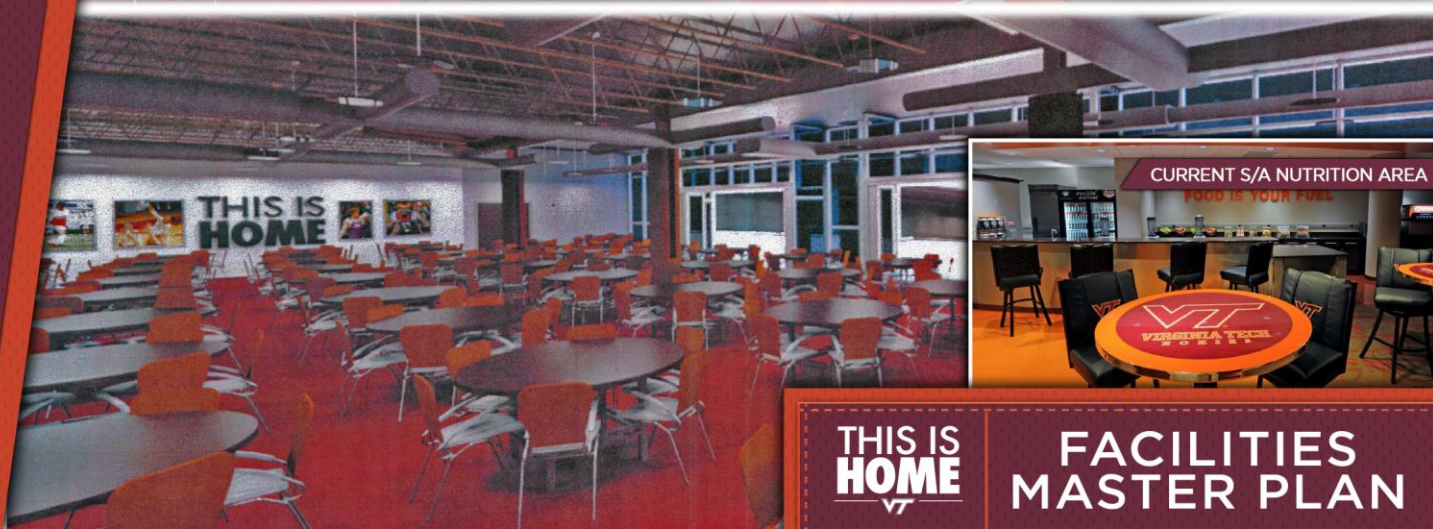
COST:

\$2 million

TARGETED COMPLETION:

To be determined

POTENTIAL SPACE TO FILL CURRENT BOWMAN ROOM



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FUTURE PROJECTS
UNDER CONSIDERATION

Hahn-Hurst Weight Room RENOVATION

PROJECT DETAILS:

Potential renovation includes an upgrade in flooring, new racks for weights and new cardio machines.

COST:

Anticipated budget
\$150,000 - \$175,000

TARGETED COMPLETION:

Fall 2016

CURRENT WEIGHT ROOM



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Video/Score Board Upgrade **THOMPSON FIELD**

PROJECT DETAILS:

There is currently a need to replace and upgrade the existing scoreboard with a new state-of-the-art video board.

COST:

Approximate budget -
\$500,000 to \$600,000

TARGETED COMPLETION:

To be determined



FUTURE PROJECTS
UNDER CONSIDERATION

GARNETT SMITH GOLF SIMULATOR & OFFICES

Men's/Women's Golf

Project details:

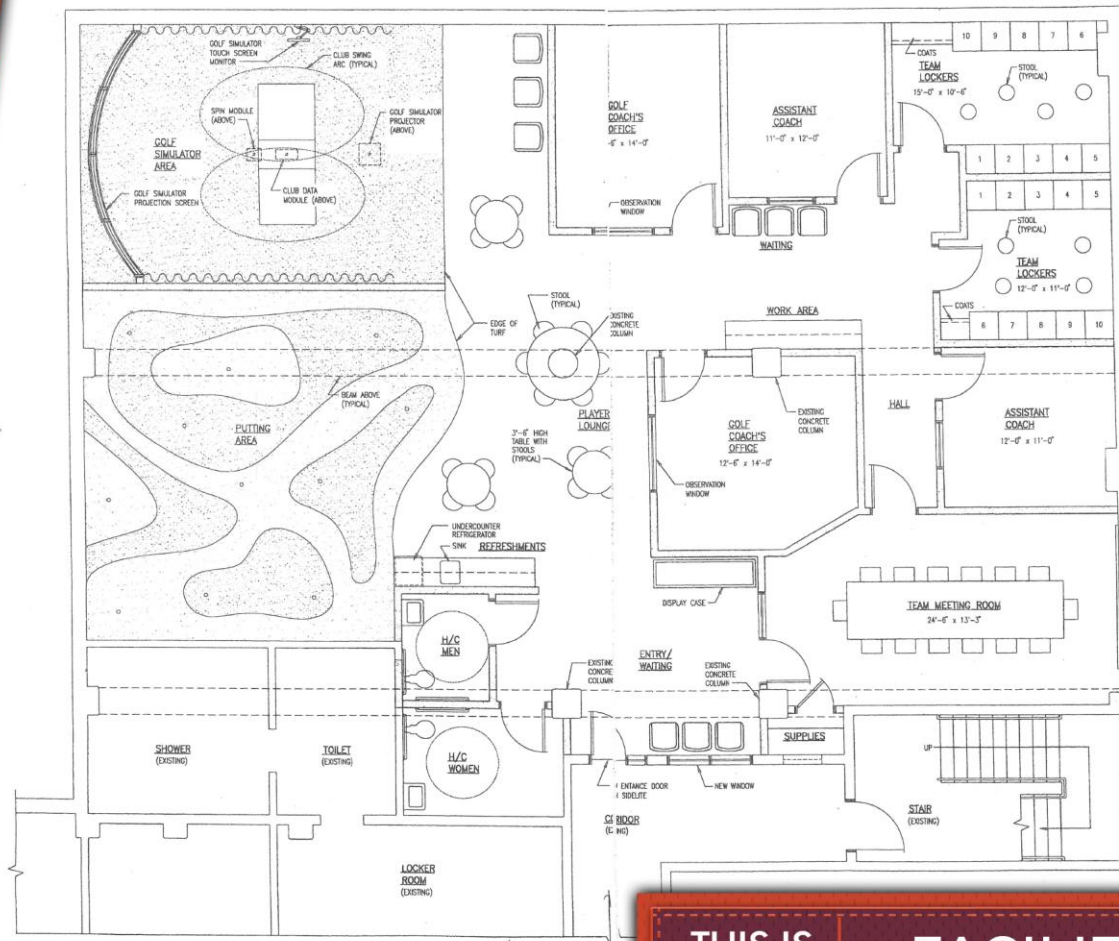
As these programs continue to compete in the ACC, the addition of a golf simulator area will provide practice opportunities during the winter months. Furthermore, providing offices in this same area will allow for closer communication between coaches and their team. Both the simulator and offices will be located on-campus allowing student-athletes to utilize the facility between class times and stay in close contact with coaches.

COST:

\$650,000

TARGETED COMPLETION:

Bids scheduled to go out January 2016, work should be completed by summer 2016



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FUTURE PROJECTS
UNDER CONSIDERATION

West-Side Entrance to CASSELL COLISEUM

PROJECT DETAILS:

A new entrance extending out for the existing entrance to the west side of Cassell is needed, particularly in the winter months. The new entrance will better isolate our fans already sitting inside from the cold weather that comes through the current west side when doors are opened for entries to the event.

COST:

To be determined

TARGETED COMPLETION:

To be determined

CURRENT ENTRANCE



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FUTURE PROJECTS
UNDER CONSIDERATION

Student-Athlete Development Suite

PROJECT DETAILS:

Student-athlete development is a very important aspect as we prepare student-athletes for life after athletics. This area is expanding in scope and can provide tremendous non-athletic preparation for the future of our student-athletes. More space is needed to perform this important mission.

Initial design thoughts on this expansion involve the renovation of some space in Lane Stadium. However, building new space in conjunction with other expansion plans is not out of the question.

COST:

To be determined

TARGETED COMPLETION:

To be determined



CURRENT SUITE

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South Endzone Enhanced Serving Areas

PROJECT DETAILS:

Expansion of concession offerings in the south endzone clubs, including some complimentary options, as well as the opportunity to purchase beer and/or wine.

COST:
\$15,000

TARGETED COMPLETION:
August 2016



FUTURE PROJECTS
UNDER CONSIDERATION

Cross Country Course REALIGNMENT

PROJECT DETAILS:

The new entrance to campus off of Route 460, as well as the airport expansion project offer the opportunity for the current Cross Country course to be realigned. Once the new campus entrance and the airport expansion is complete, the opportunity to realign the course will be available.

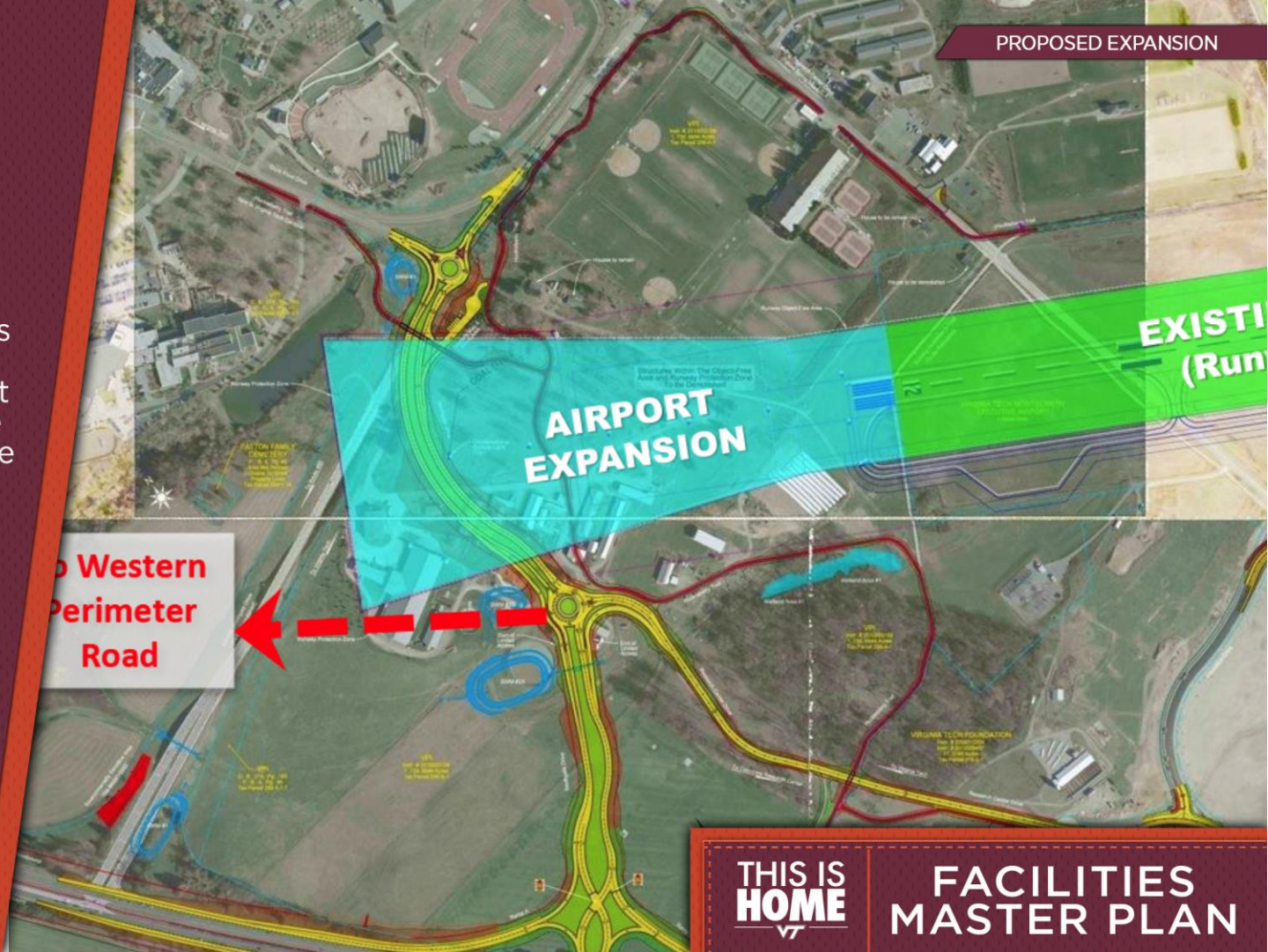
COST:

To be determined

TARGETED COMPLETION:

To be determined

PROPOSED EXPANSION



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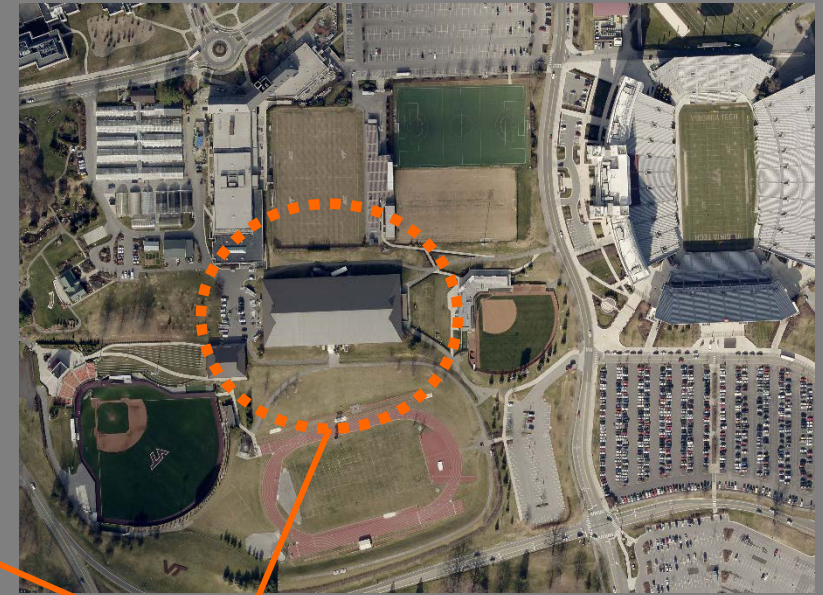


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Design Preview for:
Athletics Facilities Improvements
– Rector Field House Phase 1

Project Location



Rector Field House

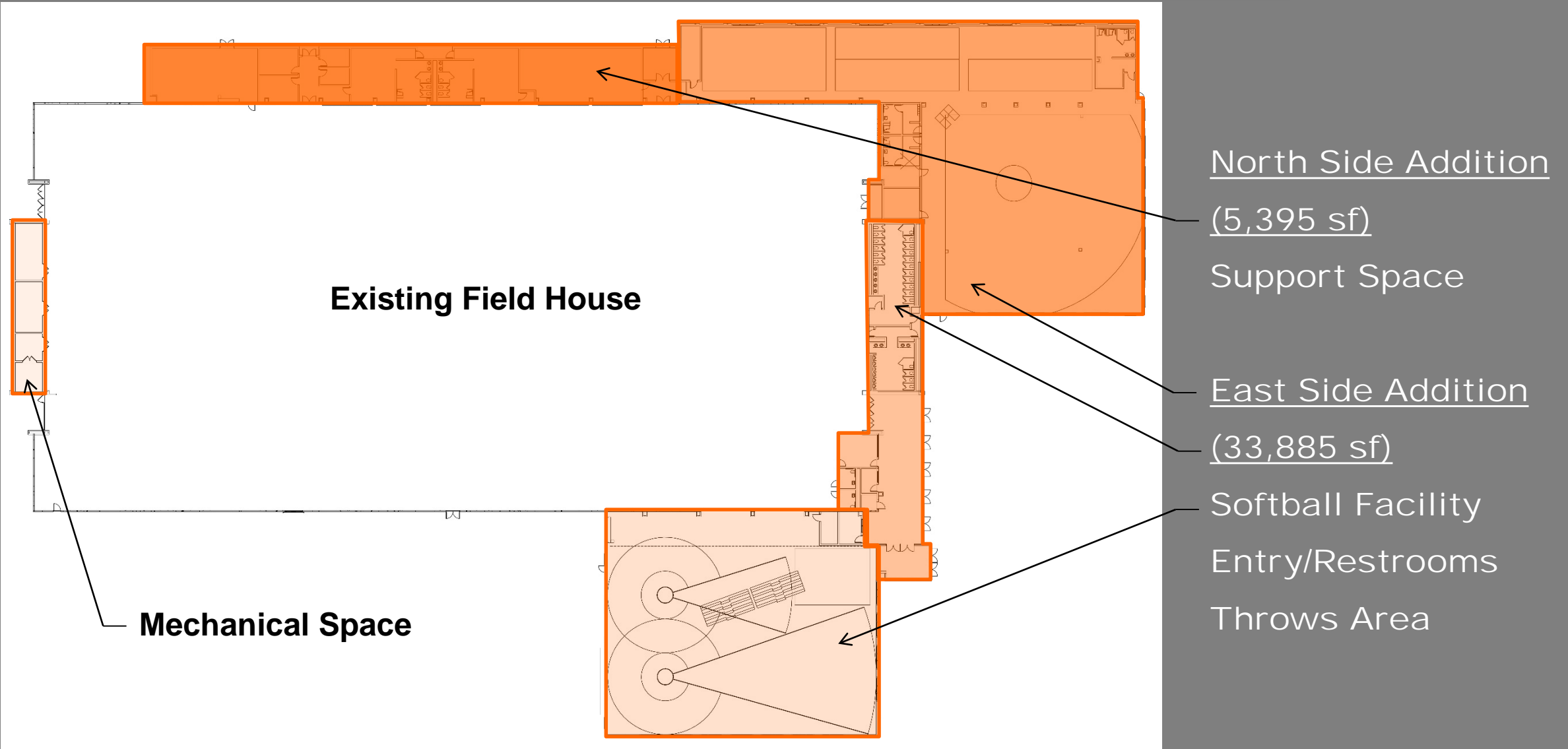
Rector Field House Phase 1

Site Plan Indicating Final Build Out by Phases



Rector Field House Phase 1

Proposed Floor Plan Phase 1



Rector Field House Phase 1

Recommendation for Proposed Design

RECOMMENDATION:

That the Design Preview graphics for Phase 1 be approved and authorization be provided to continue with the project design consistent with the drawings shown.

DESIGN PREVIEW FOR THE ATHLETICS FACILITIES IMPROVEMENTS – RECTOR FIELD HOUSE PHASE 1

Schematic design is underway for the renovation of the 71,200 gross square foot (GSF) Field House and phased building additions. The renovated and expanded Rector Field House will house improved Olympic indoor sports facilities, including Track and Field and Softball batting, fielding, and practice facilities. Support spaces serving the public will include new entry lobbies, new and expanded restrooms, and new spectator seating. Support space for participants will include training, team, officials, and storage areas. The work will be undertaken in four phases:

- Phase 1 – Includes an east side addition at 33,885 GSF with a throws area, a Softball practice facility with team and coach support, entry lobbies with concessions, ticketing, and restrooms; and a north side addition at 5,395 GSF with a new training room, team rooms with wet areas, officials' rooms, and storage space. (This Design Preview authorization request comprises Phase 1 only.)

Note: future design phases of the Athletics Facilities Improvements project are not part of this Design Preview and will be brought to the Board of Visitors for review in the future as the phases are designed:

- Phase 2 – Includes a 66,545 GSF renovation to the existing field house, including a new athletic floor surface, refinished banked track, and new bleachers.
- Phase 3 – Includes the build-out of the lower level below the new throws area (constructed as shell space in Phase 1) for broadcast space and additional storage totaling 7,640 GSF.
- Phase 4 – Includes an addition on the south west side of the field house containing warmup space for track athletes and storage totaling 14,778 GSF.

**Capital Project Information Summary – Athletics Facilities Improvements –
Rector Field House Phase 1**

BUILDINGS AND GROUNDS COMMITTEE

March 21, 2016

Title of Project:

Athletics Facilities Improvements – Rector Field House Phase 1

Location:

This renovation/addition project involves construction at the building and site of the existing Rector Field House.

Current Project Status and Schedule:

The project is in Schematic Design, which is expected to be completed in early summer 2016.

Project Description:

The 71,200 gross square foot (GSF) Field House has served Olympic sports and other programs as an indoor practice facility since its opening in 1973. The Field House's building conditions and systems are past their useful life and program space is inadequate to meet the needs of the Olympics sports programs. Ongoing Athletics use of the Field House dictates that the renovation and additions be achieved through multiple, sequenced phases of construction.

This Design Preview comprises Phase 1 only. Phase 1 consists of a major addition to the east side of the field house totaling 33,885 GSF, with 1,014 GSF of renovated field house mechanical space. This existing track level addition program includes a throws area, a Softball practice facility, and entry vestibule housing restrooms, concessions, and ticketing serving the public. A 5,395 GSF north-side addition west of the Softball addition will comprise a new training room, team rooms with wet areas, officials' rooms, and storage space.

Future design phases of the Athletics Facilities Improvements project are not part of this Design Preview and will be brought to the Board of Visitors for review as the phases are designed.

Phase 2

This phase will consist of a renovation to the existing Field House including a new athletic floor surface throughout the track and field areas and refinishing the existing banked track. The track and jumping pits will be shifted west to accommodate new bleachers on the east end. Permanent bleachers will also be

installed along the north and south walls. The metal roof of the Field House will also be replaced.

New Construction: N/A
Renovated Space: 66,545 GSF

Phase 3

Phase three will consist of the build out of the lower level of the throws addition for a broadcast space and storage.

New Construction: N/A
Renovated Space: 7,640 GSF

Phase 4

Phase four will consist of an addition on the south side of the Field House to contain a warmup space for the track athletes. A new storage room will connect the warmup space to the existing Throws area.

New Construction: 14,778 GSF
Renovated Space: N/A

Brief Program Description:

The renovated and expanded Rector Field House will house improved Olympic indoor sports facilities including track and field and softball batting, fielding, and practice facilities. Support spaces serving the public will include new entry lobbies, new and expanded restrooms, and new spectator seating. Support space for participants will include training, team, officials, and storage areas.

Contextual Issues and Design Intent:

The east-side addition exterior materials will include Hokie Stone, precast panels with decorative reveals and athletic heraldry, precast trim, and curtain wall glazing with metal trim. The north-side addition will include smooth finish cementitious panels in addition to decorative precast trim.

Architect/Engineer:

Cannon Design

Construction Manager:

TBD

CAPITAL PROJECT STATUS REPORT

Board of Visitors Meeting: *March 21, 2016*

Christopher H. Kiwus, PE, PhD
Associate Vice President and Chief Facilities Officer

PROJECTS IN DESIGN

- Athletic Facilities Improvements
- **Biocomplexity Institute Data Center Expansion**
- **Health Center Improvements**
- Improve Kentland Facilities
- Lane Electric Substation Expansion
- Multi-Modal Transit Facility
- Renovate Academic Buildings



BI DATA CENTER EXPANSION

- Includes the renovation of four rooms in the Biocomplexity Institute of Virginia Tech (BI) building into a high performance computing center to support high end technical research and attract grant funding
- Planning authorization received for development of bridging documents and cost estimate
- Four Design-Build teams submitted proposals, but all were significantly over the estimated cost for construction
- BI has requested evaluation of value engineering items by the A/E to negotiate with two of the teams



PROJECTS UNDER CONSTRUCTION

- **Airport Hangar Replacement**
- **Classroom Building**
- **Fire Alarm Systems and Access**
- **Residential Door Access Improvements**
- **Unified Communications and Network Renewal Project**
- **Upper Quad Residence Halls**



RESIDENTIAL DOOR ACCESS IMPROVEMENTS

- **This project will retrofit and install wireless electronic door access locks on approximately 4,520 student room doors campus-wide**
- **The project will include locks utilizing multi-technology keypad (MTK) readers with corresponding Hokie Passport upgrades to Smart Card technology**
- **Planning for the lock system in the first half of the residential buildings is underway**
- **The first round of lock installations and system integration will take place in summer 2016**

UPPER QUAD RESIDENCE HALLS

- Includes the demolition and reconstruction of Brodie and Rasche residence halls to serve the Corps of Cadets
- Brodie Hall has been demolished and is tracking behind schedule
- Corps of Cadets moved into Pearson Hall in November 2015
- Targeted completion date for Brodie in Spring 2017



BUILDING AND GROUNDS COMMITTEE						
March 21, 2016						
Capital Project Status Report						
Project Name	Project Description	Estimated Total Project Cost	Non-General Funds	Project Teams	Contract Completion Date	Project Status
DESIGN						
Athletic Facilities Improvements	Planning authorization only. This is an umbrella project for improvements to multiple athletic facilities, including Rector Field House, Baseball, Tennis, and Cassell Coliseum Bowman Room.	\$3,500,000	\$3,500,000	Multiple A/E firms	TBD	Sub-projects are as follows: <u>1) Rector Field House</u> - Includes building renovation and a new addition to provide for softball, throws practice, support space, and entry improvements. An A/E contract has been executed with Cannon Design. Construction Management at Risk contractor procurement currently in progress. Planning authorization only. <u>2) Baseball</u> - Includes building renovation and an addition to provide for improved baseball team and training facilities. An A/E contract has been executed with Koonce Associates for bridging documents. Design-Build construction contract is anticipated. Planning authorization only. <u>3) Tennis</u> - Includes building renovation and an addition to provide for improved tennis team and training facilities. A/E contract negotiation is in progress. <u>4) Cassell Coliseum/Bowman Room</u> - Includes building renovation and an addition to provide improvements for athletic team training and nutrition program. Planning authorization only.
				Multiple Contractors		
Biocomplexity Institute Data Center Expansion	Planning authorization only. This project includes the renovation of four rooms in the Biocomplexity Institute of Virginia Tech (BI) building into a high performance computing center.	\$500,000	\$500,000	TSS Columbia, MD	TBD	Planning authorization was approved by the Board of Visitors at its August 2015 meeting. An A/E firm was contracted to prepare bridging documents for construction delivery by Design/Build (DB). Four DB teams submitted proposals, but all were significantly over the A/E estimated cost for construction. BI has requested evaluation of value engineering (VE) items by the A/E. DB teams will submit revised pricing based on accepted VE items.
				TBD		
Health Center Improvements	The project includes a one story addition of approximately 3,500 gross square feet (GSF) and a 1,700 GSF renovation of existing space to support the clinical needs of the Schiffert Health Center.	\$3,071,000	\$3,071,000	Lord, Aeck & Sargent, Inc. Atlanta, GA	TBD	Division of Student Affairs (DSA) has reevaluated the project scope and budget needs in light of planned enrollment growth. A request to increase the project scope and budget is under consideration.
				TBD		
Improve Kentland Facilities	This project includes new construction of three buildings totaling approximately 28,900 gross square feet (GSF) including a metabolism research laboratory, an applied reproduction facility, and an arena with animal demonstration and holding spaces to serve Agency 229 Virginia Cooperative Extension and the Virginia Agricultural Experiment Station.	\$9,363,000	\$0	Spectrum Design, PC Roanoke, VA	TBD	Funding authorization has been received from the Commonwealth of Virginia Department of General Services and the project has progressed into the final design phase. An early bid package has been prepared to expedite the start of construction pending release of funds by the Commonwealth.
				TBD		
Lane Electric Substation Expansion	This project will expand the existing electrical sub-station to add approximately 37 percent additional power capacity to serve the campus Life Sciences and Northwest Precincts and the Corporate Research Center's proposed expansion.	\$6,500,000	\$6,500,000	AEP and VTES	TBD	Project administered by Virginia Tech Electric Service in coordination with Appalachian Power Company (APCo) and Appalachian Electric Power (AEP). Long lead items are being procured.
				AEP and VTES		
Multi-Modal Transit Facility	Project administered by the Town of Blacksburg funded by Federal Transportation Administration grants and a university match.	TBD	TBD	Wendel Associates	TBD	Schematic design is in progress. Project proposed to be designed for LEED Platinum, providing an on campus sustainability demonstration showcase.
				TBD		
Renovate/Renew Academic Buildings	This project will renovate three existing campus buildings - Sandy Hall, Liberal Arts Building, and the original portion of Davidson Hall. Collectively, these renovations will increase the functionality of three underutilized building assets, address several deferred maintenance issues, and reduce critical space deficiencies. A small addition is planned for Sandy and Liberal Arts Buildings to provide for an elevator, ADA accommodations, and circulation space improvements.	\$30,563,000	\$0	Glavè & Holmes Associates Richmond, VA	TBD	Preliminary design is complete and Construction Documents have been initiated. The Commonwealth of Virginia Department of Historic Resources has approved the renovation of Davidson Hall, and the Environmental Impact report was approved by the Secretary of Administration. Currently investigating release of an early bid package to expedite the start of construction pending release of funds by the Commonwealth.
				Grunley Construction Rockville, MD		

Project Name	Project Description	Estimated Total Project Cost	Non-General Funds	Project Teams	Contract Completion Date	Project Status
CONSTRUCTION						
Airport Hangar Replacement	This project provides for the design and construction of a new 14,000 gross square foot (GSF) airplane hangar at the Virginia Tech / Montgomery Executive Airport. The new facility will replace an outdated airplane hangar that will be demolished in the upcoming airport runway expansion and will have the capacity to house two planes and provide interior office space for pilots.	\$2,520,000	\$2,520,000	Landmark Builders of the Triad, Inc. Winston-Salem, NC	April 1, 2016	The construction notice to proceed was issued in July 2015 to the Design - Build contractor. The prefabricated metal building has been erected and the concrete floor slab is in place. Utilities installation and interior finishes are in progress.
				Lindsey Architecture, Greensboro, NC		
Classroom Building	This project provides for the design and construction of a 73,275 square foot (SF) academic building which will contain state-of-the-art instructional space to accommodate the unmet demand for multi-discipline general assignment classrooms and labs. The new academic building will include approximately 15 flexible classrooms and 4 laboratory rooms of various sizes and configurations to accommodate multiple teaching methods. The building will provide approximately 1,600 student stations with wireless capability throughout.	\$42,650,000	\$0	EYP Architecture & Engineering Washington D.C.	July 8, 2016	Construction is in progress. Site work and utilities are underway. Structural steel erection is complete. Hokie Stone installation is in progress. Project is on schedule.
				W.M. Jordan Company Newport News, VA		
Fire Alarm Systems and Access	This project provides for critical life safety improvements in several educational and general facilities on campus. Fire alarm systems will be installed or expanded in as many campus buildings as funding allows, including Architecture Annex, Food Science and Technology, Lane Hall, Litton Reaves Hall, Newman Library, Norris Hall, Patton Hall, Randolph Hall, War Memorial Hall, and Whittemore Hall.	\$4,900,000	\$0	Multiple A/E Firms	Multiple Sub-projects Dec-16	Release of construction funding is allocated subject to cost approval in the bidding/construction phase: Architecture Annex, Food Science and Technology, Lane Hall, Litton Reaves Hall, Patton Hall, War Memorial Hall, and Whittemore Hall are in construction. Randolph Hall is in cost review. Norris Hall is in design phase.
				Various Contractors		
Residential Door Access Improvements	This project will retrofit and install wireless electronic door access locks on approximately 4,520 student room doors campus-wide.	\$7,735,000	\$7,735,000	Hokie Passport, CNS, and CBORD	Fall 2017	Planning for the lock system in the first half of the residential buildings is underway. The first round of lock installations and system integration will take place in summer 2016. The project will include locks utilizing multi-technology keypad (MTK) readers with corresponding Hokie Passport upgrades to Smart Card technology.
Unified Communications and Network Renewal Project	This project replaces outdated equipment and upgrades campus communications systems, providing infrastructure and equipment enhancements over a five year period. The project scope includes upgrades to the Internet Protocol (IP) Network, the cable plant, and equipment rooms in buildings throughout campus.	\$16,508,000	\$16,508,000	Multiple A/E Firms	Dec-16	The ROLM system has been fully decommissioned. ROLM equipment and telephones are being surplusd. The data center team continues to work through the planning, design, and procurement activities for the data center network upgrade. The target completion date of the project has been adjusted from December 2016 to December 2017 due to the technical complexity of the project and availability of engineering resources. Crews continue to work to complete the inside cabling and network upgrades for the nine remaining buildings. The target completion date for the cabling and building network upgrades is December 2016.
				Various Contractors		
Upper Quad Residential Facilities	This project provides for the demolition and reconstruction of Brodie and Rasche residence halls to serve the Corps of Cadets. The new residence halls totaling approximately 210,000 gross square feet (GSF) will provide over 1,000 beds in double and triple rooms sharing hall community bathrooms. These new residence halls will be constructed at the approximate location of the original Rasche Hall and Brodie Hall. Both buildings will meet the residence and in-room storage space needs of the cadets. Both new residence halls will provide dedicated meeting, community, and group spaces, specifically designed to meet Corps program and organization needs. Thomas Hall and Monteith Hall will also be demolished as part of this project.	\$91,000,000	\$91,000,000	Clark Nexsen Charlotte, NC	Pearson - August 8, 2015 Brodie - July 31, 2016	Construction of Pearson Hall (Rasche Hall replacement) is substantially complete. The Corps of Cadets moved in on November 14, 2015. The new Brodie Hall construction is underway, but is behind schedule. Brodie Hall is tracking for completion in spring 2017.
				Barton Malow Company - Charlottesville, VA		