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Status of Capital Projects Executive Summary September 22, 2016

1. Projects completed:

One major project was completed since the last report. The planned deconstruction of Withrow Court necessitated the relocation of University Archives. However, the Libraries took advantage of this situation to improve services and reduce the cost of operation by co-locating University Archives with the Special Collections area within King Library. In addition, the project consolidated and improved the Howe Writing Center space in a prominent location on the first floor of King. The project was completed on time and on budget. Twenty-one projects under \$500,000 were completed since the last report.

2. Projects added:

Thirteen projects under \$500,000 were added during this reporting period. No new major projects were added during this reporting period.

3. Projects in progress:

The East Wing of Armstrong Student Center remains on schedule. The atrium connector between the existing building and the East Wing is progressing quite well. Inside the East Wing, there is a flurry of activity as framing and dry wall is being installed. Abatement and demolition have both been completed. Clawson and Hamilton residence halls. Renovations are underway in each of these buildings. Gunlock Family Athletic Performance Center is generating excitement leading into our current academic year and the start of another football season. The exterior façade is nearly complete giving fans and visitors a sense of the improvements the facility will bring. Work has begun in the “C-Wing” of Hughes Hall. This underutilized space will become important flexible and collaborative laboratory space to be used as swing space during the Pearson Hall renovation. The construction of two new residence halls on the north end of campus has just begun. The phased renovation of Shriver Center continues to make good progress. It is exciting to see the new and reconfigured spaces as they are being completed. The second phase of the Western Campus Geothermal system made great progress over the summer. Drilling of nearly 400 new wells (each 600 feet deep) is expected to be complete by the time the Board meets. Havighurst Hall is now served by geothermal heating and cooling.

Respectfully submitted,

Cody J. Powell, PE
Associate Vice President –
Facilities Planning & Operations

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Miami University
Physical Facilities Department
Status of Capital Projects Report

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<u>Summary of Active Projects</u>		
	<u>Number of Projects</u>	<u>Value</u>
Under Construction	17	\$231,214,835
In Design	5	\$118,100,000
In Planning	4	\$29,700,000
Projects Under \$500,000	87	\$17,965,070
	113	\$396,979,905

<u>New Projects Over \$500,000</u>	
New Residence Hall – North Quad Withrow Court Site	Page 20, Item 4
Western Walk – Phase II	Page 24, Item 4

<u>Projects Completed Since Last Report</u>	
King Library Improvements	\$1,720,733
Total	\$1,720,733

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UNDER CONSTRUCTION
(Under Contract)
Projects Requiring Board of Trustees Approval

1. Armstrong Student Center, Phase 2, East Wing: (BOT Sep '15)

This project will complete the Armstrong Student Center through the adaptive reuse of Culler Hall. The project will renovate the interior of Culler Hall in a similar manner to the adaptive reuse of Gaskill and Rowan Halls. The project will address needed rehabilitation to the core and shell of the Culler Hall building. The East Wing renovation of Culler Hall will be joined to the existing Armstrong Student Center by a two-story atrium link, creating a unified Armstrong Student Center. The renovation, addition, and connection will be executed in such a way that the Student Center will be perceived as one building comprised of distinct but complementary spaces.

Safety for the workers and all those adjacent to the construction site is our prime concern. Work is progressing without incident.

The concrete footings and foundations have been installed for most of the project. The existing auditorium slab on grade (the future Student Senate) has been demolished. Footings for the new, tiered concrete floor have been installed. Concrete shear walls, to reinforce the Culler Hall structure, have been installed. The elevator shaft wall installation is complete. The west wall of Culler Hall has been partially removed and reinforced to open the building to the new Atrium that adjoins phases 1 & 2. The majority of the structural steel erection is complete, including the tie-in to the structure of the Armstrong Student Center, Phase 1. Attic insulation has been installed and the wood rafters are covered with fire-resistant drywall. Ductwork and HVAC components are being installed on all floors. Plumbing rough-in is almost complete. The old windows have been removed and new windows are being installed. The work is progressing on schedule and within budget.



Under Construction

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Armstrong Student Center, Phase 2, East Wing (continued):

Delivery Method: Construction Manager at Risk

Project Cost	
Design and Administration	\$2,094,100
Cost of Work	\$18,428,075
Contingency	\$1,000,000
Owner Costs	\$2,077,825
Total	\$23,600,000

Funding Source	
Gifts	\$12,850,000
Local	\$7,975,000
HDRBS CR&R	\$2,600,000
University Buildings CR&R	\$175,000
Total	\$23,600,000

*\$10,000,000 to be funded from the redirecting of a portion of the Rec Center Student Fee. The balance is to be from gifts.

Contingency Balance: 51%
Construction Complete: 38%
Project Completion: July 2017

2. Clawson Hall Renovation: (BOT Feb '16) (Previous Report – In Design)

This project will renovate Clawson Residence Hall as a continuation of the 2010 Housing and Dining Master Plan. Clawson Hall will receive an upgrade in the mechanical systems, fire suppression, energy efficiency, and minor interior renovations.

The design includes improvements in the heating, cooling, electrical, life safety systems and building envelope, and is expected to extend the life of the facility. The limited renovation improves the student experience, but will not address all needs as would a complete renovation or new construction.

The Clawson Hall GMP session was held in early June. Abatement and demolition work have commenced. The project is on schedule and within budget.

Delivery Method: Design-Build

Project Cost	
Design and Administration	\$1,338,417
Cost of Work	\$12,243,583
Contingency	\$1,060,000
Owner Costs	\$358,000
Total	\$15,000,000

Funding Source	
Bond Series 2014	\$14,000,000
Local	\$1,000,000
Total	\$15,000,000

Contingency Balance: 100%
Construction Complete: 0%
Project Completion: August 2017

Under Construction

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3. Gunlock Family Athletic Performance Center: (BOT Jun '15)

This project will add a new facility housing the varsity football locker rooms, training and rehabilitation facilities, a football-specific weight room, hydrotherapy, offices for coaches, a team lounge, break out rooms, and a team meeting room. The facility will connect Yager Stadium to the new Dauch Indoor Sports Center.

Construction is on schedule. Exterior envelope is expected to be dried-in by the end of June 2016. Masonry work is progressing well, with the majority of it completed by the end of summer. Hydrotherapy tubs have been installed. Air handlers, chillers, and water heaters are installed. Interior framing, installation of mechanical and electrical systems, and finishes are ahead of schedule. The curtainwall and storefront are in progress. The geothermal field wells are complete, the vault installed and the ground loop piping complete.



Delivery Method: Construction Manager at Risk

Project Cost	
Design and Administration	\$2,050,000
Cost of Work	\$19,200,000
Contingency	\$650,000
Owner Costs	\$1,100,000
Total	\$23,000,000

Funding Source	
Gifts	\$23,000,000
Total	\$23,000,000

Contingency Balance: 22%
Construction Complete: 60%
Project Completion: November 2016

Under Construction

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4. Hamilton Hall Renovation: (BOT Jun '15) (Previous Report – In Design)

This project will renovate Hamilton Residence Hall as a continuation of the 2010 Housing and Dining Master Plan. Hamilton Hall will receive a comprehensive interior renovation and upgrade of all building systems, fire suppression, energy efficiency, accessibility improvements, landscaping, and site utility connections.

The Hamilton Hall renovation will repurpose Hamilton Dining Hall, providing space for additional sorority suites and multipurpose space, in addition to improved common living areas for the residents. The increase in sorority space in Hamilton Hall provides necessary swing space during future housing renovations.

Abatement is nearing completion and demolition of interior spaces will begin soon. Exterior site work is progressing.

Delivery Method: Design-Build

Project Cost	
Design and Administration	\$1,475,252
Cost of Work	\$18,400,977
Contingency	\$1,830,630
Owner Costs	\$1,293,141
Total	\$23,000,000

Funding Source	
Bond Series 2014	\$23,000,000
Total	\$23,000,000

Contingency Balance: 100%
Construction Complete: 2%
Project Completion: August 2017

5. North Quad Renovation: (BOT Sep '13)

This project will renovate Brandon, Flower, Hahne, and Hepburn Residence Halls as well as Martin Dining Hall and a portion of the North Chiller Plant at Billings Hall. Hahne Hall will receive an addition to accommodate approximately 100 more beds. The work will include site utilities and infrastructure, landscaping and site improvements for the identified buildings. These renovations will be comprehensive upgrades of all buildings systems, addition of fire suppression, accessibility improvements, energy efficiency improvements, and new finishes throughout. The project will also include a replacement of the existing tunnel top adjacent to the project site.

Construction on all five buildings is nearly complete. Occupancy certificates for Brandon and Hepburn Halls were issued ahead of schedule on May 20, and are expected on schedule at Hahne and Flower Halls by July 1, and Martin Dining by August 1. For the site work, the hardscape is approximately 75% complete, and final grading and topsoil installation for sod and landscaping is underway. The tunnel top replacement work is expected to be complete from the corner of Tallawanda and Sycamore Streets to the North Chiller Plant by August 17. Unforeseen conditions with electrical and IT cabling inside the tunnels will delay completion of the section in front of the North Chiller Plant until mid-September, but pedestrian access will be maintained on Tallawanda. The underground utility work that was added to the project in support of the new residence hall at the tennis court site is 75% complete.

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North Quad Renovation (continued):



Delivery Method: Design-Build

Project Cost	
Design and Administration	\$7,396,314
Construction	\$79,380,873
Contingency	\$8,397,813
Owner Costs	\$3,125,000
Total	\$98,300,000

Funding Source	
Bond Series 2012	\$5,000,000
Bond Series 2014	\$90,690,500
UEA CR&R	\$1,400,000
University Buildings CR&R	\$1,209,500
Total	\$98,300,000

Contingency Balance: 66%
Construction Complete: 90%
Project Completion: August 2016

Under Construction

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6. Shriver Center Renovations – Phase 1: (BOT Sep '15)

As a result of many functions relocating to the new Armstrong Student Center, this project will initiate renovations of the Shriver Center. The scope of Phase 1 has evolved to include the following elements. *General Exterior:* Limited parking, delivery, and south entry modifications. *General Interior:* Mechanical, Electrical, and Plumbing upgrades, as well as whole-building fire protection and new passenger and freight elevators. *First Floor:* An admission welcome center including pre-function space, a 250-seat auditorium, and associated admission offices, counseling rooms, and support spaces; expanded bookstore retail space; a new convenience store; and renovated circulation and restrooms. *Second Floor:* Catering kitchen; an event planning and building management office suite; renovated main lobby, circulation and restrooms. *Third Floor:* Rinella Learning Center, Student Disability Services, and renovated circulation and restrooms.

The scope and schedule of a future Phase 2 continues to develop, and is focused around assigning functions to currently unassigned spaces that can both drive traffic to the building as well as generate revenue to support the new facility. An initial submittal of the Phase 2 planning study was completed by the consultants on June 1, and is under review.

Construction of Phase 1 remains on schedule. Interior framing and MEP rough-in is approximately 70% complete. Installation of wall finishes are underway throughout the building, with the 3rd floor, west wing being the furthest along at approximately 85%. The installation and activation of three new air handling units is underway and will continue in three-week phases throughout the summer. The passenger elevator cab is under construction, with the service elevator to follow. Completion of the coffee bar in the lower level of the bookstore is on schedule for an August 1 milestone date.



Delivery Method: Construction Manager at Risk

Project Cost	
Design and Administration	\$2,003,877
Cost of Work	\$16,021,136
Contingency	\$624,987
Owner Costs	\$1,350,000
Total	\$20,000,000

Funding Source	
Univ. Bldg. CR&R	\$5,000,000
Local	\$10,850,000
Shriver Ctr. CR&R	\$4,050,000
UEA CR&R	\$100,000
Total	\$20,000,000

Contingency Balance: 25%
Construction Complete: 55%
Project Completion: January 2017

*\$3,000,000 from GY 2013 operating surplus, approved at the September 2013 Finance and Audit Committee Meeting. \$5,000,000 to be taken from GY 2014 operating surplus, assuming project is approved.

Under Construction

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7. Western Campus Geothermal Infrastructure, Phase 2: (BOT Feb '16)

The University introduced geothermal heating and cooling on the Western Campus in the first phase of this project in 2013-2014. In the first phase, the heating and cooling needs of the new buildings constructed on the Western Campus were served by the new geothermal plant. The existing Western Campus buildings remain on the central heating plant. Plans were made for a future expansion of the geothermal system to convert existing buildings on Western Campus to geothermal in later phases.

The existing geothermal system will be expanded to include approximately 400 additional deep wells. The project will add 1,400 tons of available cooling capacity to the geothermal plant. This project will address the infrastructure needs for connecting five (5) existing buildings onto the Western Campus geothermal system – Havighurst, Child Development Center, Clawson, Hoyt and Presser. This project also includes the deconstruction of Mary Lyon Hall, located on the Western Campus.

Well field construction is on schedule. Mechanical systems conversion in Havighurst Hall will be complete by early August 2016. Site piping installation and the electrical infrastructure upgrades are proceeding according to plan. The project is on schedule and within budget.



Delivery Method: Construction Manager at Risk

Project Cost	
Design and Administration	\$929,078
Construction	\$14,050,344
Contingency	\$931,648
Owner Costs	\$688,930
Total	\$16,600,000

Funding Source	
Local	\$15,540,000
Bond Series 2014	\$1,060,000
Total	\$16,600,000

Contingency Balance: 100%
Construction Complete: 15%
Project Completion: July 2017

Under Construction

**Miami University
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**UNDER CONSTRUCTION
(Under Contract)
Projects Between \$500,000 and \$2,500,000**

1. Hamilton Campus Gymnasium Roof Replacement 2016:

This project replaces the roof on the Hamilton Campus Gymnasium. The existing Ethylene Propylene Diene Membrane (EPDM) roof is well beyond its useful life. The roof will be replaced with a highly efficient Thermoplastic Polyolefin (TPO) product.

Construction began in May with a substantial completion expected in August 2016. The contractor is far ahead of schedule. Installation of the roof is approximately 80% complete.

Delivery Method: Single Prime Contracting

Project Cost	
Design and Administration	\$40,000
Cost of Work	\$430,520
Contingency	\$43,000
Owner Costs	\$186,480
Total	\$700,000

Funding Source	
Local	\$700,000
Total	\$700,000

Contingency Balance: 100%
Construction Complete: 80%
Project Completion: August 2016

2. Hughes Hall Laboratories 141/161 Renovation: (Previous Report – In Design)

This project renovates Hughes Laboratories 141 and 161 lecture halls. Existing space will be better utilized, allowing the construction of two additional classrooms in the basement of Hughes Laboratories. The project includes new finishes, MEP systems, A/V and demonstration stations.

Work began on May 16 with a substantial completion deadline of December 2016. The general contractor is making good progress and is ahead of schedule.



Under Construction

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Hughes Hall Laboratories 141/161 Renovation (continued):

Delivery Method: Single Prime Contracting

Project Cost	
Design and Administration	\$118,000
Cost of Work	\$807,000
Contingency	\$256,000
Owner Costs	\$219,000
Total	\$1,400,000

Funding Source	
Local	\$1,400,000
Total	\$1,400,000

Contingency Balance: 100%
Construction Complete: 20%
Project Completion: December 2016

3. Irvin Hall Renovations 2016: (Previous Report – In Planning)

This project includes a combination of classroom modernization as well as deferred maintenance projects. This work will be completed using single prime contracting as well as state term contractors.

The work to be executed includes: replacing corridor ceilings and installing new LED lighting; upgrading HVAC controls for energy efficiency; replacing the fire alarm system; and modernizing three high-use classrooms.

HVAC control work, fire alarm system and fire suppression upgrade work is being completed within classrooms and corridors. Once these activities are complete, finishes will be installed.



Under Construction

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Irvin Hall Renovations 2016 (continued):

Delivery Method: Single Prime Contracting & State Term

Project Cost	
Design and Administration	\$84,500
Cost of Work	\$794,623
Contingency	\$109,000
Owner Costs	\$181,877
Total	\$1,170,000

Funding Source	
Local	\$1,170,000
Total	\$1,170,000

Contingency Balance: 100%
Construction Complete: 45%
Project Completion: August 2016

4. Middletown Campus – Gardner Harvey Library Renovation:

This project will add partitions on the first floor to allow for new study rooms, offices and a “maker space.” The project provides additional electrical panels and receptacles to support electronic devices presently in use, as well as provide for future expansion. Minor updates to IT infrastructure will also occur. The existing lift will be replaced with a new ADA compliant elevator.

The project began construction immediately following graduation. Demolition is complete. Wall and soffit framing are complete and drywall is underway. MEP and electrical rough-in is in progress. Communication room coordination work is complete. Elevator pit excavation is beginning. Elevator shop drawings were approved and fabrication is in progress.

Delivery Method: Single Prime Contracting

Project Cost	
Design and Administration	\$70,700
Cost of Work	\$661,070
Contingency	\$66,000
Owner Costs	\$82,730
Total	\$880,500

Funding Source	
State	\$877,500
Local	\$3,000
Total	\$880,500

Contingency Balance: 85%
Construction Complete: 20%
Project Completion: August 2016
(Elevator November 2016)

Under Construction

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5. Millett Hall Roof Replacement 2016: (Previous Report – In Design)

This project will replace the roof around the lower concourse of Millett Hall. The work will include correction of a flashing detail around the limestone columns and installation of additional roof drains.

Work began on May 16 with a substantial completion deadline by November 2016. The work is on schedule.

Delivery Method: Single Prime Contracting

Project Cost	
Design and Administration	\$167,000
Cost of Work	\$1,534,700
Contingency	\$165,000
Owner Costs	\$133,300
Total	\$2,000,000

Funding Source	
Local	\$2,000,000
Total	\$2,000,000

Contingency Balance: 85%
Construction Complete: 20%
Project Completion: November 2016

6. Ogden Hall Roof Repairs 2016:

The copper valleys, flashing, downspouts and gutters in the center core (between the chimneys) are at the end of their useful life and will be replaced with this project. Approximately 20% of the existing barrel tile roof (in the center core between the chimneys) will be replaced. The balance of the roof tile is in good condition and will remain.

Work began on May 16 with a substantial completion deadline of August 2016. The contractor is on schedule and 60% complete.

Delivery Method: Single Prime Contracting

Project Cost	
Design and Administration	\$40,000
Cost of Work	\$365,615
Contingency	\$60,000
Owner Costs	\$284,385
Total	\$750,000

Funding Source	
HDRBS CR&R	\$750,000
Total	\$750,000

Contingency Balance: 100%
Construction Complete: 60%
Project Completion: August 2016

Under Construction

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**7. Upham Hall Emergency Generator Replacement and Unit Substation Consolidation:
(Previous Report – In Design)**

This project will replace the existing diesel fueled emergency generator with a natural gas fueled unit located inside the building. The project will also consolidate the three existing Unit Substations into one large Unit Substation and change the medium voltage feeder to the building from 4 kV to 12.5 kV.

Work began in May and is expected to be complete by August 2016.

Delivery Method: Single Prime Contracting

Project Cost	
Design and Administration	\$42,700
Cost of Work	\$652,120
Contingency	\$63,800
Owner Costs	\$6,380
Total	\$765,000

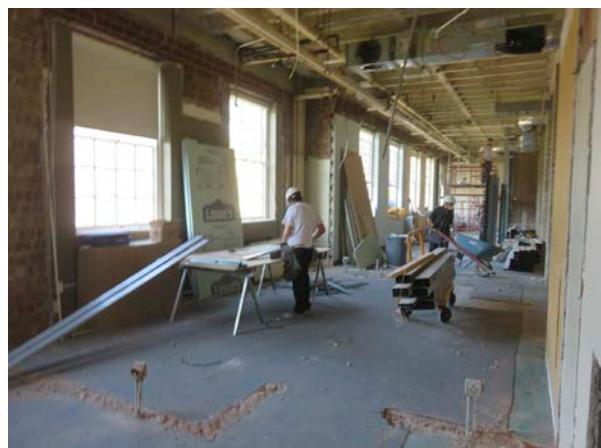
Funding Source	
Local	\$765,000
Total	\$765,000

Contingency Balance: 100%
Construction Complete: 15%
Project Completion: August 2016

8. Upham Hall First Floor Renovation:

This project will renovate the offices and corridors in the south wing of the first floor of Upham Hall. The renovation creates additional new space for the College of Arts and Science Academic Advising unit.

Work began on May 16 with a substantial completion deadline by August 2016. The work is on schedule.



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Upham Hall First Floor Renovation (continued):

Delivery Method: Single Prime Contracting

Project Cost	
Design and Administration	\$55,800
Cost of Work	\$546,300
Contingency	\$70,000
Owner Costs	\$178,200
Total	\$850,300

Funding Source	
Local	\$850,300
Total	\$850,300

Contingency Balance: 100%
Construction Complete: 50%
Project Completion: August 2016

9. Varsity Tennis Courts:

This project will construct a new tournament level outdoor tennis court complex. The new tennis courts are necessary to replace the existing courts being razed for construction of a residence hall. The project site is located northwest of Yager Stadium, immediately north of the existing field hockey field. The facility will include six (6) competitive level courts and two (2) practice courts including court lighting, scoreboard and viewing area.

The project is on schedule with site utilities, subgrade work, and asphalt paving completed. Court lighting is nearing completion. Chain link court fence and specialty fence installation is ongoing with preparations for concrete flat work underway.



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Varsity Tennis Courts (continued):

Delivery Method: Design-Build

Project Cost	
Design and Administration	\$350,000
Cost of Work	\$1,450,000
Contingency	\$145,000
Owner Costs	\$55,000
Total	\$2,000,000

Funding Source	
Bond Series 2014	\$2,000,000
Total	\$2,000,000

Contingency Balance: 57%
Construction Complete: 70%
Project Completion: July 2016

10. Yager Site/Infrastructure Improvements:

This project removes and adds ductbanks and manholes to complete the loop connecting electric and telecommunications between the east and west sides of Yager stadium, as well as installing parking for TV trucks, handicapped and other parking for Yager Stadium. The project improves and integrates the parking and access roads impacting Yager West Stands, the proposed Varsity Tennis Court site, the Gunlock Family Athletic Performance Center, and the Dauch Indoor Sports Center.

Utility work has been performed in coordination with the foundation and slab of the Gunlock Family Athletic Performance Center. The electric duct bank is complete to provide power to the new tennis facility. IT infrastructure conveyance is complete to the north end of Yager west cable tray. Parking lot completion is anticipated for the summer, in time for fall football season.

Delivery Method: Construction Manager at Risk

Project Cost	
Design and Administration	\$12,000
Cost of Work	\$1,079,000
Contingency	\$25,000
Owner Costs	\$84,000
Total	\$1,200,000

Funding Source	
UEA CR&R	\$200,000
Gifts	\$1,000,000
Total	\$1,200,000

Contingency Balance: 100%
Construction Complete: 65%
Project Completion: November 2016

Under Construction

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**IN DESIGN
(Pre-Contract)**

1. Hughes Hall C-Wing Renovation:

The Hughes Hall C-Wing Renovation is an enabling project supporting the renovation of Pearson Hall. The project will provide flexible interdisciplinary swing space to house occupants of Pearson Hall as sections of the building are renovated. Once the renovation work in Pearson is completed, the labs will serve as interdisciplinary space and support specific needs in the College of Engineering and Computing.

The Design-Builder is currently working on construction documents and GMP negotiations has been scheduled for July 2016.

Delivery Method: Design-Build
Estimated Budget: \$11,000,000
Estimated Start: August 2016
Estimated Completion: July 2017

Funding Source	
Local	\$11,000,000
Total	\$11,000,000

2. Minnich and Scott Halls Renovation:

This project will renovate two co-located residence halls in the Central Quad. Selection of these two residence halls aligns with progress on implementing the Utility Master Plan. The Scott Hall program will include new sorority suites, which creates swing space for sorority suites as the balance of the Central Quad residence halls are renovated.

Program verification is complete and the project is beginning Schematic Design.

Delivery Method: Design-Build
Estimated Budget: TBD
Estimated Start: May 2017
Estimated Completion: August 2018

Funding Source	
TBD	TBD
Total	TBD

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3. New Residence Hall – North Quad Tennis Court Site: (BOT Dec '15)

The increase in student population has created a demand for on-campus beds beyond the Long Range Housing Master Plan's original projection. The Master Plan called for 7,100 beds total on campus. Current projections call for a demand of 8,100 beds on campus.

The site at the location of the varsity tennis courts was one of four sites originally identified in the Master Plan. This site can take advantage of utilities being upgraded in the current renovation of the North Quad. The program calls for approximately 350 beds. The new residence hall will be designed to the current design standards used on the other new residence halls built within the last three years. This residence hall will likely have a Neo-Georgian architectural style, utilizing materials seen on the other North Quad halls. The project will include hardscape/landscape design to integrate the new hall into the existing pedestrian and vehicular network in this area of campus.

Design development is complete. Construction documents are currently being prepared. The GMP budget submission is scheduled for June 2016.

Delivery Method: Construction Manager at Risk
Estimated Budget: \$38,500,000
(changed from \$36,500,000)
Estimated Start: July 2016
Estimated Completion: July 2018

Funding Source	
Bond Series 2014	\$38,500,000
Total	\$38,500,000

4. New Residence Hall – North Quad Withrow Court Site: (BOT May '16) (New Project This Report)

The increase in student population has created a demand for on-campus beds beyond the Long Range Housing Master Plan's original projection. The Master Plan called for 7,100 beds total on campus. Current projections call for a demand of 8,100 beds on campus.

The site at the location of Withrow Court was one of four sites originally identified in the Master Plan. The program calls for approximately 270 beds. The new residence hall will be designed to the current design standards used on the other new residence halls built within the last three years. This residence hall will likely have a modified Neo-Georgian architectural style, utilizing materials seen on the other North Quad halls, and incorporating design elements from Withrow Court including replicating the cupola and salvaging selected stone elements for re-use on the main entrance. The project will include minimal hardscape and landscape to connect it to a larger district landscape plan being developed as a separate project. A 2,600 square foot retail space is included in the program in anticipation of a second Starbucks Coffee store.

Schematic Design is complete. An initial GMP budget submission based on the schematic design is scheduled for June 2016.

Delivery Method: Construction Manager at Risk
Estimated Budget: \$38,500,000
Estimated Start: July 2016
Estimated Completion: July 2018

Funding Source	
Bond Series 2014	\$38,500,000
Total	\$38,500,000

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5. Pearson Hall Renovations Phase 1:

Pearson Hall, built in 1985, serves the biological sciences including the Departments of Biology and Microbiology. This phased, occupied rehabilitation will renovate teaching and research labs, offices, common areas, mechanical, electrical, plumbing and fire systems, and circulation spaces. Because the building is occupied, the work is expected to occur over approximately four years.

Phase 1 is expected to address at least 50% of the necessary heating, cooling, and lab exhaust systems; replace electrical switchgear, modernize the public areas, and modernize approximately 50% of the teaching and research laboratories. The large lecture halls have been modernized in recent years and will not be impacted by this project.

The Criteria Architect is currently working with user groups to complete design development drawings.

Delivery Method: Design-Build
Estimated Budget: \$30,100,000
Estimated Start: May 2017
Estimated Completion: August 2018

Funding Source	
State Appropriations	\$23,900,000
Local	\$6,200,000
Total	\$30,100,000

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**IN PLANNING
(Pre-A&E)**

1. Campus Avenue Building Lower Level Rehab:

The CAB Lower Level Rehab project will allow the University to relocate and consolidate the offices of University Communications and Marketing into space vacated by Student Disability Services and Rinella Learning Center, which will relocate to the renovated Shriver Center. University Communications and Marketing is currently located in three separate buildings on campus: Glos Center, MacMillan Hall, and Williams Hall. The CAB project will also realign some of the remaining work groups with the Division of Enrollment Management and HOME, completing the University’s goal of creating a one-stop service center for students.

A planning study for both the initial project scope and a larger plan that includes some reorganization of Enrollment Management has been completed by the consultants and is being reviewed prior to commencing with Schematic Design.

Proposed Budget: TBD
Desired Start: February 2017
Desired Completion: December 2017

Funding Source	
TBD	TBD
Total	TBD

2. Hamilton Campus – Knightsbridge Building Renovation:

This project will provide for the renovation of the recently acquired 23,500 square feet Richard Allen Academy building located on the Hamilton Campus at the intersection of Knightsbridge Drive and University Boulevard in Hamilton. A facility assessment to be used in developing program and renovation cost has been completed. The assessment has identified the need for mechanical/electrical upgrades as part of the renovation, reporting approximately \$4,000,000 in probable cost. A recent professionally-prepared campus space plan is contributing to the programmed scope of this project.

Planning is underway to align the campus space requirements, academic priorities, and existing facilities condition/needs.

Proposed Budget: TBD
Desired Start: TBD
Desired Completion: TBD

Funding Source	
Hamilton Campus CR&R	TBD
Total	TBD

3. TIGER Grant Transportation Improvements:

The University has partnered with the Butler County Regional Transit Authority (BCRTA), the City of Oxford, and the Talawanda School District (TSD) to seek a federal TIGER grant. The project is comprised of regional transportation improvements on two University-owned sites to create a comprehensive public transit system. At Chestnut Fields (the former Talawanda High School site), a new transit center with public lobby, ticketing, BCRTA offices, Talawanda School District bus staff, large vehicle maintenance, bus and large-format vehicle storage and related support spaces will create a new shared transit hub. The site will also have a large-format vehicle wash station, a centralized shared fueling center, and expanded parking for those using the hub. The site planning has been developed to provide a direct link for a future Amtrak platform and stop.

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TIGER Grant Transportation Improvements (continued):

At Shriver Center, the plan calls for a central bus terminal that serves all outgoing BCRTA bus routes, private apartment shuttles, Barons bus, and visitor buses to an 8+ bus cuing hub, located one story under a new plaza to the south of Shriver Center. The terminal depot also has an underground access drive from Maple Street to Patterson Avenue to reduce pulsing and route times at a point of heavy congestion and density. Directly adjacent to the underground hub and pass thru, the university would take advantage of the site work to co-develop an approximately 300 car parking garage to support the transit hub, Admissions Office move to Shriver, as well as events at the CPA and the Armstrong Student Center.

The grant submission occurred in late April. The awards are recognized in the Fall 2016. If the grant award is successful, the project will use the design-build methodology. The project would require approximately one year for design and would take approximately 18 months to complete construction.

Delivery Method: Design-Build
Estimated Budget: \$28,000,000
Estimated Start: November 2017
Estimated Completion: May 2019

Funding Source	
Federal DOT Grant	\$19,000,000
Local	\$9,000,000
Total	\$28,000,000

4. Western Walk – Phase II: (New Project This Report)

As part of the Long Range Housing Master Plan, the first phase of the Western Walk was created in 2014. Phase II of this project extends the Western Walk south past Clawson Hall to Boyd and McKee Halls. This also provides an improved connection for students living in Peabody Hall. This plan also establishes a large open commons space for students and continues to improve the aesthetic of the Western Campus.

Delivery Method: Design Build
Estimated Budget: \$1,700,000
Estimated Start: Fall 2016
Estimated Completion: January 2017

Funding Source	
TBD FY 2017	\$1,700,000
Total	\$1,700,000

In Planning

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COMPLETED PROJECTS

1. King Library Improvements:

The removal of Withrow Court necessitated the relocation of University Archives. Improved operational efficiencies, facilities, and security was realized by co-locating the University Archives with the Special Collections area on the third floor of King Library. The work also included a consolidation and improvement of the Howe Writing Center into a prominent location on the first floor of King Library and the relocation of the IT offices within the facility.

The Howe Writing Center opened for use in early March 2016. The Special Collections and Archives renovation was complete in early April 2016. The relocation of the archives materials from Withrow to King Library occurred in late April 2016.

Delivery Method: Single Prime Contracting

Project Revenue	
Design and Administration	\$205,431
Cost of Work	\$1,312,802
Contingency	\$117,500
Owner Costs	\$85,000
Total	\$1,720,733

Project Expense	
Design and Administration	\$205,431
Cost of Work	\$1,312,802
Contingency	\$70,140
Owner Costs	\$85,000
Total	\$1,673,353

Est. Contingency Balance Returned: \$47,360
 Est. Contingency Balance Returned Percent of Total: 40%
 Est. Bid Savings / VE: \$0
 Est. Final Total: \$1,673,353

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Projects Between \$50,000 and \$500,000

Project	Budget
Airport RSA Grading Project	\$128,320
Alumni Hall – High Bay Roof Replacement	\$250,000
Armstrong Student Center – Stair Tread Replacement	\$107,000
Art Building – Room 011 Photo Darkroom Renovation	\$145,000
Art Building – Room 154 Classroom Renovation	\$139,000
Bachelor Hall – Lecture Hall 102 Renovation	\$440,000
Bachelor Hall – Room 108 Conversion to Classroom	\$110,000
Benton Hall – Agile Classroom	\$50,000
Boyd Hall – Fashion Design Studio	\$105,375
Campus Avenue Water Main Work (in conjunction with City of Oxford)	\$150,000
Center for Performing Arts – Room 078 Dye Vat Installation	\$147,100
Central Campus Electrical Modifications – Phase II	\$230,665
Central Campus Utility Upgrade	\$498,000
Chestnut Fields – Fieldhouse Renovation for Club & Rec Sports	\$500,000
Chestnut Fields – Site Infrastructure and Utility Improvements	\$300,000
Classroom Chair Replacement (17 classrooms)	\$189,685
Cole Service Building Reconfiguration	\$187,310
E & G Buildings – Corridor Lighting Control	\$200,000
E & G Buildings – Fan Energy Upgrades	\$72,000
E & G Buildings – Heating Pumps Energy Upgrades	\$160,000
E & G Buildings – Relamping	\$350,000
E & G Buildings – Summer Painting – Building Exteriors 2014/2015	\$187,000
Edwards Parking Lot Rehabilitation	\$450,000
Emergency Phones Phase II	\$465,000
Emerson Hall Emergency Power Upgrades	\$125,000
Engineering Building – Fume Hood Exhaust Fan Resolution	\$100,000
Engineering Building – Second Floor Honors Suite	\$65,605
Farmer School of Business – Exterior Entrance Door Repairs	\$150,000
Goggin Ice Center – Stair Repair/Replacement	\$80,000
Hamilton Campus – One Stop Enrollment Management Center	\$260,160
Hamilton Campus – Rentschler Hall Entry Reconstruction	\$180,000
Hamilton Campus – Wilks & Schwarm Halls Building Automation Upgrade	\$200,000
Hamilton Campus – Wilks & Schwarm Halls Fire Alarm Upgrades	\$125,000
Hamilton Campus – Wilks & Schwarm LED Lighting Retrofit	\$90,000
Havighurst Hall – Lighting Upgrades 2016	\$345,750
Havighurst/Clawson-Emergency Generator	\$100,000
Hiestand Hall – Exhaust Improvements	\$70,000
Hiestand Hall - Room 200 - Lab Refresh and Update	\$75,000
HDRBS – HVAC Improvements 2016	\$100,000
HDRBS – MEP Improvements 2016	\$400,000
HDRBS – Residence Halls 2x2 Lighting Retrofit	\$80,000
HUB Quad Engraved Brick Replacement	\$145,500
Hughes Hall Still Replacement	\$160,000
Irvin Drive Relocation	\$200,000
Irvin Hall – Classroom 10 Interior Finish Upgrades	\$330,000
Irvin Hall – Classroom 40 Renovation	\$385,000
Irvin Hall – Classrooms 50 & 60 Renovations	\$225,000
Irvin Hall – Room 126 A/V Upgrades	\$95,000

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Kreger Hall Furniture Package	\$300,000
Maplestreet Station – Sidewalk Remediation	\$235,000
Maplestreet Station – Starbucks Renovation	\$325,000
Marcum Conference Center –Building Window Replacement	\$104,000
McGuffey Drive – Water Line Extension	\$250,000
McGuffey Hall – Multipurpose Learning Center	\$131,680
McGuffey Hall – Room 128 - AV and Computer Equipment Installation	\$85,000
Middletown Campus – Bennett Rec Center Fire Alarm Upgrade	\$75,000
Middletown Campus – One Stop Enrollment Management Center	\$171,560
Middletown Campus – SWORD Drainage Improvements	\$162,300
Middletown Campus – SWORD Roof and Building Repair	\$395,000
Middletown Campus – SWORD Storm Water/Chiller Improvements	\$200,000
Middletown Campus – Thesken Hall Fire Alarm Upgrades	\$75,000
Middletown Campus – Verity Lodge Fire Alarm Upgrades	\$75,000
Millett Hall – Electrical Modifications – 4kv to 12.5kv Conversion	\$200,000
North Chiller Plant – Roof Replacement	\$200,000
Patterson Place – Exterior Envelope Rehabilitation	\$250,000
Peabody Hall – Lighting and Mechanical Upgrades 2016	\$275,000
Phillips Hall – Entryway Repairs	\$75,000
Phillips Hall – Gymnasium Netting, Room 30 Renovation	\$150,000
Presser Hall Stormwater Pond	\$262,250
Psychology Building – Room 36 Hood and Hall Modifications	\$55,000
Recreational Sports Center – Envelope Evaluation	\$145,000
Recreational Sports Center – Outdoor Pursuits Center	\$90,000
Recreational Sports Center – Scoreboard Replacement	\$500,000
Regional Campuses – Classroom Technology Upgrade 2015	\$306,000
Rental Property Demolition and Grounds Restoration (406 E. Chestnut Street)	\$160,000
Richard Hall – Electrical Modifications	\$235,000
Sawyer Gym Renovation	\$400,000
Softball Field Scoreboard Upgrade	\$136,810
South Refrigeration Plant Air Conditioning Upgrades	\$200,000
Upham Hall – Second Floor Renovation	\$320,000
Utility Group Control Automation Upgrades	\$200,000
Utility Group Network Reconfiguration	\$150,000
VOA – Exterior Repairs	\$100,000
Western Campus – Alumnae Legacy Project	\$340,000
Western Campus Bridge Reconstruction	\$400,000
Western Campus – Water Main Extension	\$332,000
Yager Stadium – Space for Tennis and Golf Teams	\$250,000

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Projects Closed Between \$50,000 and \$500,000

Project	Original Budget	Returned Funds
Asphalt Maintenance	\$352,000	\$17,770
Farmer School of Business – Room 1036 Classroom Renovation	\$66,000	\$7,000
Farmer School of Business – Room 3075 Renovation	\$53,850	\$0
Farmer School of Business Technology Upgrades	\$126,000	\$0
Hayden Park – FF&E	\$180,000	\$7,400
HDRBS – Exterior Summer Painting 2014	\$50,000	\$1
Maplestreet Station/Etheridge Hall Door Security Additions	\$100,000	\$1,135
Marcum Conference Center Crestron Upgrades	\$85,000	\$35,510
Millett Hall – Carpet Replacement	\$72,500	\$0
Millett Hall – Sub Gym Floor Remediation	\$140,000	\$1,930
Murstein/Glos Electric Service Modification	\$200,000	\$13,350
Parking Garages – Lighting Retrofit	\$140,000	\$3,350
Pearson Hall Laboratory AV Upgrades	\$398,022	\$98,500
Pearson Hall Laboratory Upgrades (267 B-F, G, H)	\$145,850	\$30,000
VOA – AV Upgrades	\$97,000	\$19,150

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Glossary of Terms

Construction Manager at Risk (CMR) – is a delivery method which entails a commitment by the construction manager to deliver the project within a Guaranteed Maximum Price (GMP). The owner contracts the architectural and engineering services to perform the design from concept through construction bid documents using the construction manager as a consultant. The construction manager acts as the equivalent of a general contractor during the construction phase. CMR arrangement eliminates a "Low Bid" construction project. This method will typically be used on projects with high complexity and demanding completion schedules.

Contingency – includes both owner contingency and the D/B or CMR contingency where applicable.

Cost of the Work – is the cost of construction. This includes general condition fees, contractor overhead and profit, D/B or CMR construction stage personnel.

Design & Administration – includes all professional services to support the work. This consists of base Architect/Engineer (A/E) fees, A/E additional services, A/E reimbursables, non-error/omission A/E contingency fees, geotechnical services, special inspection services partnering services, multi-vista photo documentation of projects, D/B or CMR pre-construction services, third party estimator, and local administration fees.

Design Build (D/B) – is a project delivery method in which the design and construction services are contracted by a single entity and delivered within a Guaranteed Maximum Price (GMP). Design Build relies on a single point of responsibility contract and is used to minimize risks for the project owner and to reduce the delivery schedule by overlapping the design phase and construction phase of a project. This method will typically be used on projects with less complexity and have demanding completion schedules.

Guaranteed Maximum Price (GMP) – is the negotiated contract for construction services when using D/B or CMR. The owner negotiates a reasonable maximum price for the project (or component of the project) to be delivered within the prescribed schedule. The D/B firm or CMR is responsible for delivering the project within the agreed upon GMP. This process eliminates bidding risks experienced by the owner, allows creative value engineering (VE) to manage the budget, and permits portions of the work to begin far earlier than traditional bidding of the entire project.

Multiple Prime Contracting – is a project delivery method historically allowed by the State of Ohio. The owner contracts the architectural and engineering services to perform the design from concept through construction bid documents. The construction services are divided into various trade specialties – each bid as a separate contract (general, plumbing, mechanical, electrical, sprinkler, etc.). The owner is responsible for managing the terms of each contract and coordinating the work between the multiple contractors.

Owner Costs – are costs directly borne by the owner to complete the project. This includes furniture, fixtures, and equipment (FF&E), audio/visual (A/V), IT networking, percent for art (applicable on State funded projects exceeding \$4 million), printing and advertising expenses, and any special moving or start-up funds.

Preconstruction Services – are the development and design services provided by a D/B firm or CMR to the owner. These services are typically performed for an identified cost prior to the negotiation of a GMP. These services are included in "Design and Administration."

Single Prime Contracting – is a project delivery method in which the owner contracts the architectural and engineering services to perform the design from concept through construction bid documents. The construction services are contracted separately, but through a single entity. Single Prime Contracting is beneficial on projects with specialized construction requiring more owner oversight or control. This method will typically be used on projects with high complexity and low schedule importance.