

THURSDAY, NOVEMBER 21, 2019
MASTER PLANNING AND FACILITIES COMMITTEE MEETING

Alexander R. Fischer
James D. Klingbeil
Timothy P. Smucker
Brent R. Porteus
Anand Shah
Robert H. Schottenstein
Gary R. Heminger (*ex officio*)

Location: Longaberger Alumni House
Mount Leadership Room

Time: 8:00-9:45am

Public Session

ITEMS FOR DISCUSSION

- | | |
|------------------------------------------------------------------------------------------------------------------------|-------------|
| 1. <i>Physical Environment Scorecard – Jay Kasey</i> | 8:00-8:05am |
| 2. <i>Sustainability Goals Update – Jay Kasey, Mark Conselyea</i> | 8:05-8:15am |
| 3. <i>Ohio State Energy Partners Scorecard – Jay Kasey</i> | 8:15-8:20am |
| 4. <i>Capital Savings Update – Jay Kasey, Mark Conselyea</i> | 8:20-8:25am |
| 5. <i>Major Project Updates – Mark Conselyea</i> | 8:25-8:35am |
| 6. <i>FY19 Capital Projects Annual Report – Mark Conselyea</i> | 8:35-8:45am |
| 7. <i>Design Review: Controlled Environment Food Production Research Complex – Dr. Graham Cochran, Keith Myers</i> | 8:45-8:55am |

ITEMS FOR ACTION

- | | |
|-----------------------------------------------------------------------------------------------------------|-------------|
| 8. Authorization to Enter Into/Increase Professional Services and Construction Contracts – Mark Conselyea | 8:55-9:05am |
| 9. Approval of a Joint Use Agreement: Canine Companions – Keith Myers | 9:05-9:10am |
| 10. Approval to Purchase Real Property – Keith Myers | 9:10-9:20am |
| a. Purchase of Real Property – Highland Street | |
| b. Purchase of Real Property – Eye & Ear Institute | |

Executive Session

9:20-9:45am

| PHYSICAL ENVIRONMENT | Actual Prior Year Same Period (FY19 YTD) | FY20 Year-To-Date | | | | FY20 Annual Target (Budget) | Comments |
|-------------------------------------------------------------------------|------------------------------------------|-------------------|-----------------|-------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| | | Actual | Target (Budget) | Target %Var | Actual vs Target | | |
| A. FINANCIAL | | | | | | | |
| 1. A&P Tot. Operating Expenses (General & Earnings Funds) | \$28,433,253 | \$27,877,671 | \$29,782,258 | -6.4% | — | \$153,677,566 | |
| B. OPERATIONAL | | | | | | | |
| 1. %Total Projects Completed on Time | 87.5% | 82.7% | 90.0% | -8.2% | ▲ | 90.0% | 81 of 98 projects YTD |
| 2. %Total Projects Completed on Budget | 97.7% | 100.0% | 90.0% | 11.1% | — | 90.0% | |
| 3. Capital Investment Program Spend * | \$376.5 | \$474.6 | \$527.8 | -10.1% | ▲ | \$808.1 | Metric is measured Quarterly, showing 4th Quarter FY19 Value; in Millions |
| 4. Facility Condition Index % - Conditioned Academic/Research Bldgs | 74.3% | 74.2% | 80.0% | -7.2% | — | 80.0% | Avg. composite FCI to-date. |
| 5. CABS Riders | 535,807 | 604,902 | 532,000 | 13.7% | — | 4,589,000 | YTD positive variance results from increased year-over-year service to the Med. Ctr. |
| 6. All Parking Garage Peak Time Occupancy % ** | 81.0% | 70.5% | 85.0% | -17.1% | ▲ | 85.0% | YTD (Jul-Aug) Occup%: Transient= 63%, Permit= 78%, Mixed= 68% |
| 7. WMC Parking Garage Peak Time Occupancy % ** | 90.0% | 92.0% | 85.0% | 8.2% | — | 85.0% | YTD (Jul-Aug) Occup%: Transient= 94%, Permit= 84%, Mixed= 94.5% |
| 8. Sum of Daily Temporary Parking Space Closures | 5,936 | 2,162 | 5,000 | -56.8% | — | 20,000 | Key drivers for temp space removals are closures due to the 12th Ave Garage at Arnoff Dock, the Mirror Lake Algea Project, ENGIE's project in |
| 9. WOSU Broadcast Audience (Viewers, Listeners) | 537,150 | 571,700 | 537,150 | 6.4% | — | 569,758 | Budget is based on last F/Y actuals with TV viewers increasing |
| 10. WOSU Digital Audience (Unique Visitors, Video Views, Digital Audio) | 1,042,573 | 1,397,424 | 1,042,573 | 34.0% | ▼ | 8,346,796 | Budget is based on last F/Y actuals with Unique Visitors and Streaming increasing |
| C. SAFETY | | | | | | | |
| 1. EHS Recordable Accident Rate (CYTD): | 1.40 | 1.40 | 2.00 | -30.0% | — | 2.00 | 2019 Calendar YTD |
| 2. Major On-Campus Crimes (burglary, assault, arson, etc.) | 10 | 18 | 13 | 38.5% | ▼ | 120 | Record Mgmt Sys. Data unaudited at time of retrieval |
| 3. Avg. Response time to In-Progress Calls for Svc | N/A | 3:41 | 5:00 | -26.3% | ▲ | 5:00 | Prior year n/a through Sept. due to system upgrade |
| 4. Traffic Accidents Injury | 6 | 3 | 5 | -40.0% | ▲ | 31 | Record Mgmt Sys. Data unaudited at time of retrieval |
| 5. Traffic Accidents Non-Injury | 52 | 32 | 47 | -31.9% | — | 215 | Record Mgmt Sys. Data unaudited at time of retrieval |
| 6. Off-Campus Crime Statistics | 363 | 321 | 363 | -11.6% | ▲ | 1,940 | Record Mgmt Sys. Data unaudited at time of retrieval |

* For B3. Capital Investment Program Spend, Green = "Target %Variance" of + or - 10%, with an additional Yellow range extending 10% above and 20% below the Green range.

** For B6&7. Parking Garage Peak Time Occupancy %, the target is 85% + or - 5%, with an additional 5% Yellow range in both directions. Peak time measured on weekdays between 12:30 and 1:30 p.m.

- Meets or surpasses Target
- Within 10% of Target
- Does not meet Target by >10%
- Data Pending
- 4-Mo Target %Var improved from Prior 4-Mo
- Within +/- 2.5% of Prior 4-Mo Target %Var
- 4-Mo Target %Var decline from Prior 4-Mo

**SUSTAINABLE CAMPUS
MASTER PLANNING & FACILITIES COMMITTEE
NOVEMBER 21, 2019**



THE OHIO STATE UNIVERSITY

FY 2019 OHIO STATE SUSTAINABILITY GOALS

STRATEGIC VISION

Ohio State is recognized as a world leader in developing durable solutions to the pressing challenges of sustainability and in evolving a culture of sustainability through collaborative teaching, pioneering research, comprehensive outreach, and innovative operations, practices and policies.



TEACHING AND LEARNING

1,200+

Sustainability related courses

70%

Undergraduate students surveyed reporting awareness of and ability to participate in sustainability programming

74

Undergraduate majors and graduate programs with sustainability related learning outcomes



RESEARCH AND INNOVATION

600

Faculty and researchers conducting sustainability scholarship (including 60 Discovery Theme hires)

\$33+M

Externally funded sustainability research grants

\$3M

Board of Trustees approval to design Energy Advancement and Innovation Center



OUTREACH AND ENGAGEMENT

650+

Partnering for a Resilient and Sustainable Future Community Engagement Conference attendees

1 OF 20

International University Climate Change Coalition members

1 OF 2

Midwestern Higher Education Climate Summit founding members



RESOURCE STEWARDSHIP

14%

Purchased electricity from renewable wind

250+

Energy Smart Meters installed through Ohio State Energy Partners

24M

Gallons saved through fixing leaks detected by a leak detection survey

600

Trees planted on Columbus campus

50

Procured vehicles operating on alternative fuel

161

Tons of waste avoided by installation of hand dryers

COMPREHENSIVE, UNIVERSITY-WIDE GOAL STATEMENTS

1. Deliver a sustainability curriculum throughout the university.
2. Teach sustainability in innovative ways in and out of the classroom.
3. Reward sustainability scholarship and engagement.
4. Encourage new sustainability knowledge and solutions.
5. Foster sustainability culture on and off campus.
6. Encourage local and global sustainability partnerships.
7. Implement world-leading, university-wide goals to reduce resource consumption.

OPERATIONAL RESOURCE STEWARDSHIP SCORECARD

FY19 YEAR END | THROUGH JUNE 2019

| Ohio State Sustainability Goal | Metric Definition | Baseline | | FY19 Performance | | | Long-Term | Highlights |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------|------------------|-------------|-------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | FY15 Actual (Baseline) | FY18 Actual | FY19 Actual | FY19 Target | FY20 Target | Overall Target | |
| 7a. Achieve Carbon Neutrality by 2050 per Presidents' Climate Leadership Commitment | Metric Tons of Carbon Dioxide Equivalent Per Year (MTeCO2/Yr) | 615,051 | 629,073 | 619,944 | 576,808 | 558,721 | FY50 = 0 MTeCO2/Yr | Highlights: ~14% of university electricity from renewable wind power; savings from transition to LED lights; improved energy performance through retro-commissioning Next Action: complete construction of 14 building-level ECMs, begin construction on 31 additional building-level ECMs, begin CHP construction in CY2020 |
| 7b. Reduce University Energy Consumption per Building Sq Ft by 25% by 2025 (Metric for Columbus Campus only via OSEP Agreement) | Energy Use Intensity = 1000 British Thermal Units/Conditioned Gross Square Foot /Year Baseline year is FY17 (kBTU/GSF/Yr) | 199.92 (FY17) | 194.37 | 191.84 | 198.82 | 190.83 | FY25 = 149.98 kBTU/GSF/Yr | Highlights: savings from transition to LED lights; improved energy performance through retro-commissioning; 14 building-level ECMs began construction; 250 smart meters installed Next Action: complete construction of 14 building-level ECMs, begin construction on 31 additional building-level ECMs, begin CHP construction in CY2020, implement revised green build standards |
| 7c. Reduce Potable Water Consumption by 5% Per Capita Every 5 Years- reset every 5 years | Calculated as Gallons Per Weighted Campus User. Baseline is average of FY13, 14 and 15 (Gal/WCU) | 21,755 | 17,573 | 16,835 | 20,884 | 20,667 | FY20 = 20,667 Gal/WCU | Highlights: meter installations, fewer water main breaks; 29 million gallons saved through fixing leaks, proactive building water leak audits, and low-flow fixture installations Next Action: continue meter installations, additional leak repairs, water reclamation study, identify and reduce once-through water usage, public education campaign targeting labs and students |
| 7d. Increase Ecosystem Services by 60 Percentage Points by 2025 (Metric for Columbus Campus only) | Ecosystem Services Improvement (ESI) Index- Based on metrics for 11 individual Ecosystem Initiatives equated to a 0-100% scale | 19.6% | 24.7% | 26.7% | 32.8% | 40.9% | FY25 = 79.7% ESI Index Score | Highlights: 3 acres of stormwater infrastructure added, planted more than 600 trees at Columbus campus, (Lost 11 acres of farmland to development) Next Action: Cannon Drive Preserve & Sesquicentennial tree plantings (460 total trees), Kunz-Brundige Franklin County Extension Building green roof, Carmack Woods restoration |
| 7e. Reduce Carbon Footprint of University Fleet by 25% by 2025 | Metric Tons of Carbon Dioxide Per Year. Baseline year is FY16 (MTCO2/Yr) | 6,461 (FY16) | 7,233 | 7,543 | 7,076 | 7,983 | FY25 = 4,846 MTCO2/Yr | Highlights: 45 CNG vehicles added to fleet; 5 EV added to fleet; fleet charging stations installed at Blankenship and TNC; higher carbon footprint FY17, FY18 and FY19 due to increased bus service; increase of 18% in ridership from FY18 to FY19 Next Action: continue adopting EV and CNG vehicles to fleet; install electric charging stations at ARC, Newark, Marion, and Lima |
| 7f. Achieve Zero Waste by 2025 by Diverting 90% of Waste Away from Landfills | Percentage of Materials Diverted from the Landfill (Diversion Rate) | 29.2% | 27.8% | 31.3% | 34.6% | 36.0% | FY25 = 90.0% Diversion Rate | Highlights: waste avoidance, recycling contamination reduction, positive efforts in auxiliary units Next Action: improve waste tracking, reduce bulk waste to landfill, increase organics collection |

10/9/19

OHIO STATE SUSTAINABILITY GOALS:

Teaching and Learning- Sustainability Curriculum through a Variety of Formats and Strategies

Research and Innovation- Sustainability Scholarship, Increase Reputation as a Sustainability Research Leader

Outreach and Engagement- Long-Term Partnerships that Encourage Sustainability-Oriented Practices and Economic, Social and Environmental Welfare

Resource Stewardship- Implement Sustainable World-Leading Operational Goals

= Exceeds Target = Some Progress = No Progress

ZERO WASTE



GOAL

- Achieve zero waste by 2025 by diverting 90% of waste away from landfills
- FY19: 31.3% diversion rate

NEXT STEPS

- Expand organics and recycling collections
- Purchase more environmentally preferred products
- Eliminate waste streams altogether



OHIO STATE
ZERO WASTE

RECYCLE COMPOST TRASH



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ACHIEVEMENTS



- Ohio Stadium ranked #1 in Big Ten diversion rate for the past seven years
- FOD replacing paper towels with hand dryers in 29 of buildings (will divert 550+ tons)
- 72% of WMC's clinical supplies meet Environmentally Preferred Purchasing standards
- Expanding behind-the-scenes composting in dining locations
- FOD hosted 25+ zero waste events, diverting 1/2 tons of compost, in FY19



ZERO WASTE BOARD OF TRUSTEES



AUGUST MEETINGS

- Back of house diverted 75% of material from landfill

NOVEMBER MEETINGS

- Added composting stream
- Eliminated non-recyclable and non-compostable items
- Added zero waste bins in public spaces



NEXT STEPS

- FOD students will measure and report progress






















Ohio State Energy Partners Contract Scorecard

F19 Year End - Through June 2019

| Legend | |
|-------------------------------------------------------------------------------------|---------------------------|
|  | Meets or surpasses target |
|  | Does not meet target |

10/7/19

| Current Year | | | | | Actual vs Target | Comments |
|----------------------------------|---------------|-------------|-----------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Actual | Target | Target %Var | Actual Prior Yr | | | |
| A. Financial | | | | | | |
| \$ 55,208,967 | \$ 55,345,706 | 0.2% | \$ 53,284,053 |  | 1. Total Expense (Fixed & Operating) | |
| \$ 2,225 | \$ 2,230 | 0.2% | \$ 2,147 |  | 2. Total Expense (Fixed & Operating) / 1000 EUI GSF | |
| \$ 1,108,552 | \$ 1,243,780 | -10.9% | \$ - |  | 3. Utilities Capital Investment Variable Fees Paid | Expenses incurred in FY18 accrue to FY19, thus no Prior Year Actual |
| \$ 389,840 | \$ 422,000 | 7.6% | \$ 389,910 |  | 4. ECMs Capital Investment Variable Fees Paid | ECMs: Energy Conservation Measures |
| B. Operational | | | | | | |
| 24,814 | N/A | N/A | 24,814 |  | 1. 1000 EUI Gross Sq Ft (used in EUI calc.) | 24,813,694 = Total Building Gross Sq Ft |
| 191,839 | 194,371 | 1.3% | 194,372 |  | 2. Annual Energy Use Intensity (EUI) Reduction: BTU/GSF | Prior years EUI adjusted to account for errors in university building list |
| 1.39 | 1.41 | 1.4% | 1.40 |  | 3. Boiler Efficiency (mmBtu of fuel/mlb of steam) | |
| 0.78 | 0.90 | 13.3% | 0.88 |  | 4. Chilled Water Conversion (kW/Ton) | |
| 63.42% | 50.0% | 26.8% | 35.2 |  | 5. Smart Meter Implementation % | Year two of four-year implementation plan |
| C. Customer Satisfaction | | | | | | |
| 99.999% | 99.996% | 0.00% | 100.00% |  | 1. Electric Uptime Reliability % | Reliability % - Financial penalties increase as the Reliability % goes below the target and increase as the number of consecutive years of missing the target increases. Examples: - If the Reliability % is slightly below the target one year, there is no financial penalty; if the target is missed multiple years in a row, penalties will begin/increase - If the Reliability % is missed by a large enough amount, financial penalties can ensue immediately - Similar logic applies to Downtime Events |
| 100% | 99.960% | 0.04% | 100.00% |  | 2. Natural Gas Uptime Reliability % | |
| 99.99% | 99.950% | 0.04% | 99.98% |  | 3. Chilled Water Uptime Reliability % | |
| 99.99% | 99.900% | 0.09% | 100.00% |  | 4. Steam Uptime Reliability % | |
| 2 | 4 | 50.0% | 1 |  | 5. Electric # of Downtime Events | |
| - | 2 | 100.0% | 1 |  | 6. Natural Gas # of Downtime Events | |
| 12 | 15 | 20.0% | 5 |  | 7. Chilled Water # of Downtime Events | |
| 1 | 4 | 75.0% | 0 |  | 8. Steam # of Downtime Events | |
| D. Academic Collaboration | | | | | | |
| \$ 810,000 | \$ 810,000 | 0% | \$ 810,000 |  | 1. Philanthropic Allocation | Projected lifetime allocation - \$40.5 million |
| 11 | 10 | 10% | 11 |  | 2. Internships | Cumulative = 22; required to offer 10/yr |

CAPITAL SAVINGS UPDATE

Estimating / Total Cost of Ownership

Master Planning & Facilities Committee
November 21, 2019



THE OHIO STATE UNIVERSITY

Capital Savings: FY20 and Beyond

A New Approach to Capital Efficiencies

- Develop Construction Project Cost Estimating Model
 - Benchmark costs based on space types (office, classroom, research, dormitory, clinical, etc.)
 - Establish a range of estimated costs based on project goals and objectives (e.g., class A , B or C building costs)
 - Integrate life cycle/total cost of ownership information

Expected Outcomes/Benefits

- Provide a tool that:
 - Informs capital planning and conceptual estimating
 - Allows the university to pressure-test cost estimates at a detailed level at project milestones
 - Integrates life cycle/total cost of ownership information

Capital Savings: Benchmarking

RSMMeans – On-line leading source of construction cost information

- Comprehensive: find costs for nearly every category of construction
 - 85,000 unit prices, 25,000 building assemblies and 42,000 facilities repair and remodeling costs covering every category of construction.
- Localized: customize cost data to reflect prices in our market
- Up-to-date: online database is updated year-round as costs change

Beginning to Compare to University Projects

- Biomedical Research Tower – to generate a probable cost of constructing the facility today
- Interdisciplinary Research Facility – to test and align on assumptions for the new building

Capital Savings – Research Buildings Preliminary Comparison

| | Biomedical Research Tower | Intradisciplinary Research Facility |
|---------------------|---------------------------|-------------------------------------|
| HVAC | \$110.47/SF | \$109.65/SF |
| Electrical | \$46.24/SF | \$46.69/SF |
| Communications | \$7.80/SF | \$7.46/SF |
| Plumbing | \$20.18/SF | \$47.82/SF |
| Safety and Security | \$4.14/SF | ** |
| Conveying Systems | \$6.46/SF | \$3.83/SF |
| Fire Protection | \$5.29/SF | \$7.05/SF |

Capital Savings: Next Steps

Next Steps

- Finalize the cost estimate format
- Quality check the “pilot” research facility estimates / comparisons
- Develop cost models for each facility type
 - Including facility estimate \$/SF ranges (Class A, B, and C)
- Provide an update at the February Board of Trustee meeting
- Complete Phase 1 (New Construction) in May 2020



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Major Project Updates

Projects Over \$20M

November 2019



PROJECT STATUS REPORT

CURRENT PROJECTS OVER \$20M

| PROJECT | COMPLETION DATE | APPROVALS | | BUDGET | ON TIME | ON BUDGET |
|--------------------------------------------------------|-----------------|-----------|-----|----------|---------|-----------|
| | | Des | Con | | | |
| OSU East – West Wing Expansion/Renovation | 3/2020 | ✓ | ✓ | \$26.0M | | |
| Cannon Drive Relocation – Phase 1 | 5/2020 | ✓ | ✓ | \$52.1M | | |
| Postle Partial Replacement | 7/2020 | ✓ | ✓ | \$95.0M | | |
| Mars G. Fontana Laboratories (BMEC) | 7/2020 | ✓ | ✓ | \$59.1M | | |
| Health Sciences Faculty Office and Optometry Clinic | 8/2020 | ✓ | ✓ | \$35.9M | | |
| Wooster – New Laboratory Building | 8/2020 | ✓ | ✓ | \$33.5M | | |
| WMC Inpatient Hospital – Central Sterile Supply | 11/2020 | ✓ | ✓ | \$44.2M | | |
| Ty Tucker Tennis Center | 12/2020 | ✓ | ✓ | \$22.8M | | |
| Newark – John & Mary Alford Ctr for Sci and Technology | 12/2020 | ✓ | ✓ | \$32.0M | | |
| WMC Inpatient Hosp Garage, Infr & Road Work | 3/2021 | ✓ | ✓ | \$102.1M | | |
| WMC Regional Ambulatory Facilities-Hamilton Rd | 5/2021 | ✓ | ✓ | \$137.9M | | |
| Controlled Env Food Production Research Complex | 7/2021 | ✓ | | \$35.0M | | |
| Newton Hall – Renovation and Addition | 10/2021 | ✓ | ✓ | \$24.5M | | |
| Lacrosse Stadium | 11/2021 | ✓ | | \$20.0M | | |
| Dodd – Parking Garage | 2/2022 | ✓ | ✓ | \$33.3M | | |
| Arts District | 6/2022 | ✓ | ✓ | \$161.6M | | |
| Celeste Lab Renovation | 8/2022 | ✓ | | \$29.0M | | |
| Interdisciplinary Health Sciences Center | 7/2023 | ✓ | ✓ | \$155.9M | | |
| Instructional Science Buildings Deferred Maintenance | TBD | ✓ | | \$25.0M | | |



OSU EAST – WEST WING EXPANSION/RENOVATION

Renovation of 11,500 GSF and expansion of 29,000 GSF on the second floor of the west wing of the hospital tower with mechanical penthouse.

Renovated and expanded spaces include operating rooms, pre-operative/PACU spaces; imaging; and improvements to the patient arrival experience.

PROJECT FUNDING

auxiliary funds

CURRENT PROJECT BUDGET

construction w/cont \$23.9M
total project \$26.0M

CONSULTANTS

architect of record Moody Nolan
CM at Risk Elford

PROJECT SCHEDULE

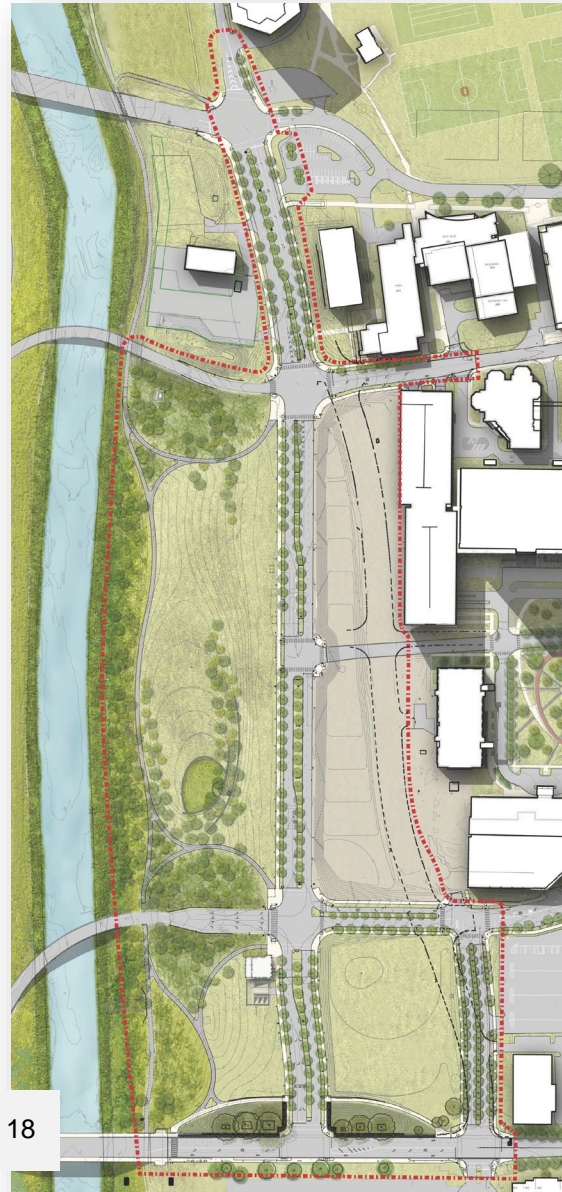
BoT approval 6/17
construction 9/18-3/20
facility opening 8/20

PROJECT UPDATE

Construction work is ongoing, including interior framing, plumbing, roofing, and fireproofing.

 On Time

 On Budget



CANNON DRIVE RELOCATION – PHASE 1

In partnership with the City of Columbus, the project will raise Cannon Drive between King Avenue and Herrick Drive above the 500-year flood level. Phase 2, from Herrick Drive to Woody Hayes Drive, will protect the campus from the 500-year storm event.

Work will also include utility service lines under the relocated Cannon Drive and stub out piping to serve future development, as well as the restoration of the rivers edge.

PROJECT FUNDING

university funds; city of Columbus

CURRENT PROJECT BUDGET

| | |
|---------------------|---------|
| construction w/cont | \$44.3M |
| total project | \$52.1M |

CONSULTANTS

| | |
|---------------------|------------|
| architect of record | EMHT, Inc. |
| general contractor | Kokosing |

PROJECT SCHEDULE

| | |
|-----------------|-----------|
| BoT approval | 11/16 |
| construction | 8/17-5/20 |
| roadway opening | 6/19 |

PROJECT UPDATE

Construction will continue along the roadway, but the roads will remain open. King/Cannon entry feature construction will begin in November

 On Time

 On Budget



POSTLE PARTIAL REPLACEMENT

Replace the southern portion of the east wing and renovate/upgrade portions of the west wing.

PROJECT FUNDING

fundraising; state appropriations; department funds; university debt

CURRENT PROJECT BUDGET

| | |
|---------------------|---------|
| construction w/cont | \$85.4M |
| total project | \$95.0M |

CONSULTANTS

| | |
|---------------------|----------------------|
| architect of record | Design Group |
| des architect | Robert AM Stern Arch |
| CM at Risk | Gilbane |

PROJECT SCHEDULE

| | |
|------------------|-----------|
| BoT approval | 9/16 |
| construction | 6/18-7/20 |
| facility opening | 8/20 |

PROJECT UPDATE

Exterior framing has begun. The concrete slab placements continue. Plumbing and electrical work has begun.





MARS G. FONTANA LABORATORIES BIOMEDICAL ENGINEERING COMPLEX (BMEC)

Renovation of the former Koffolt Lab and Fontana Lab to create research labs, offices, and classrooms.

PROJECT FUNDING

state appropriations; fundraising; department funds; university debt

CURRENT PROJECT BUDGET

| | |
|---------------------|---------|
| construction w/cont | \$53.2M |
| total project | \$59.1M |

CONSULTANTS

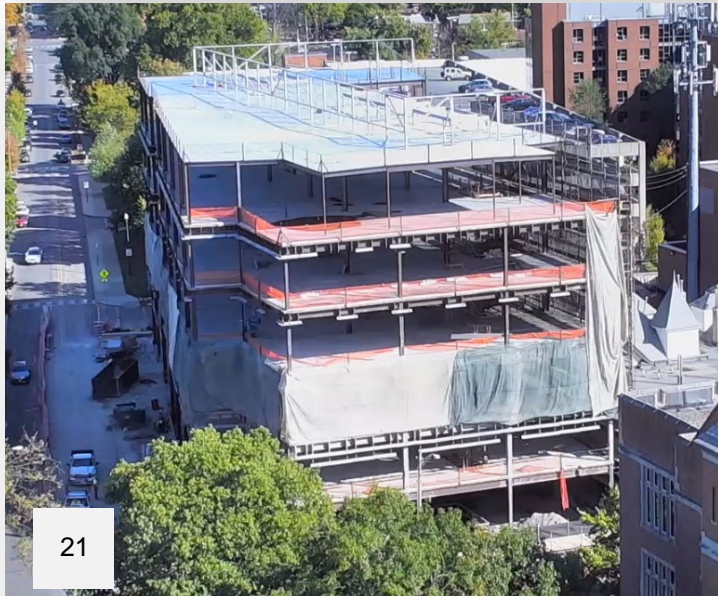
| | |
|------------------|----------------|
| arch of record | Moody Nolan |
| design architect | Perkins & Will |
| CM at Risk | Ruscilli |

PROJECT SCHEDULE

| | |
|------------------|-----------|
| BoT approval | 9/16 |
| construction | 5/18-7/20 |
| facility opening | 8/20 |

PROJECT UPDATE

The rough-in of mechanical and electrical as well as framing are ongoing in Koffolt and Fontana. Drywall is being hung and finished in Koffolt and Fontana. Glass is being installed on the new addition.



HEALTH SCIENCES FACULTY OFFICE AND OPTOMETRY CLINIC BUILDING

Construct a building at 11th Avenue and Neil Avenue for College of Optometry patient clinic and eyewear gallery. The facility will also include clinic support and Health Sciences faculty offices. This project is a key enabler for the Interdisciplinary Health Sciences Center.

PROJECT FUNDING

auxiliary funds; university funds

CURRENT PROJECT BUDGET

| | |
|---------------------|---------|
| construction w/cont | \$31.7M |
| total project | \$35.9M |

CONSULTANTS

| | |
|---------------------|---------------|
| architect of record | Moody Nolan |
| Design/Build firm | Daimler Group |

PROJECT SCHEDULE

| | |
|------------------|-----------|
| BoT approval | 11/17 |
| construction | 2/19-8/20 |
| facility opening | 10/20 |

PROJECT UPDATE

All upper floor slabs completed. Exterior wall framing and masonry installation is ongoing. Roofing will be installed in November and December

 On Time

 On Budget



WOOSTER – NEW LABORATORY BUILDING

Construct a new facility for Entomology research that will include teaching labs, research space, classrooms, and a small café. The new building will connect to a central chilled water plant.

PROJECT FUNDING

university funds; state appropriations

CURRENT PROJECT BUDGET

| | |
|---------------------|---------|
| construction w/cont | \$30.0M |
| total project | \$33.5M |

CONSULTANTS

| | |
|---------------------|----------------|
| architect of record | Hasenstab Arch |
| CM at Risk | Elford |

PROJECT SCHEDULE

| | |
|------------------|------------|
| BoT approval | 1/17 |
| construction | 10/18-8/20 |
| facility opening | 9/20 |

PROJECT UPDATE

Chilled water work will complete in November. The new building site and foundation work are ongoing along with underground utilities.



On Time



On Budget



WEXNER MEDICAL CENTER INPATIENT HOSPITAL – CENTRAL STERILE SUPPLY

The project will construct a central sterile supply building to serve the hospital and ambulatory locations.

PROJECT FUNDING

auxiliary funds

CURRENT PROJECT BUDGET

| | |
|---------------------|---------|
| construction w/cont | \$30.5M |
| total project | \$44.2M |

CONSULTANTS

| | |
|---------------------|--------------|
| architect of record | HDR |
| CM at Risk | Walsh-Turner |

PROJECT SCHEDULE

| | |
|------------------|------------|
| BoT approval | 2/18 |
| construction | 7/19-11/20 |
| facility opening | 1/21 |

PROJECT UPDATE

Construction work has begun





TY TUCKER TENNIS CENTER

Construct a new 68,000 GSF indoor tennis facility in the Athletics District. The new center will include 6 courts, seating for 500, men's and women's varsity locker rooms, training facilities and offices.



PROJECT FUNDING

university funds; fundraising

CURRENT PROJECT BUDGET

| | |
|---------------------|---------|
| construction w/cont | \$20.9M |
| total project | \$22.8M |

CONSULTANTS

| | |
|---------------------|--------------|
| architect of record | Moody Nolan |
| CM at Risk | Barton Malow |



PROJECT SCHEDULE

| | |
|------------------|------------|
| BoT approval | 8/18 |
| construction | 9/19-12/20 |
| facility opening | 1/21 |

PROJECT UPDATE

Construction work has begun.

On Time

On Budget



NEWARK – JOHN & MARY ALFORD CTR FOR SCIENCE AND TECHNOLOGY

Construct a 60,000 GSF facility containing biological and physical sciences research and teaching labs, classrooms, collaborative learning and academic support spaces. Spaces will serve both the Newark campus and Central Ohio Technical College.

PROJECT FUNDING

university funds; university debt; development

CURRENT PROJECT BUDGET

| | |
|---------------------|---------|
| construction w/cont | \$29.7M |
| total project | \$32.0M |

CONSULTANTS

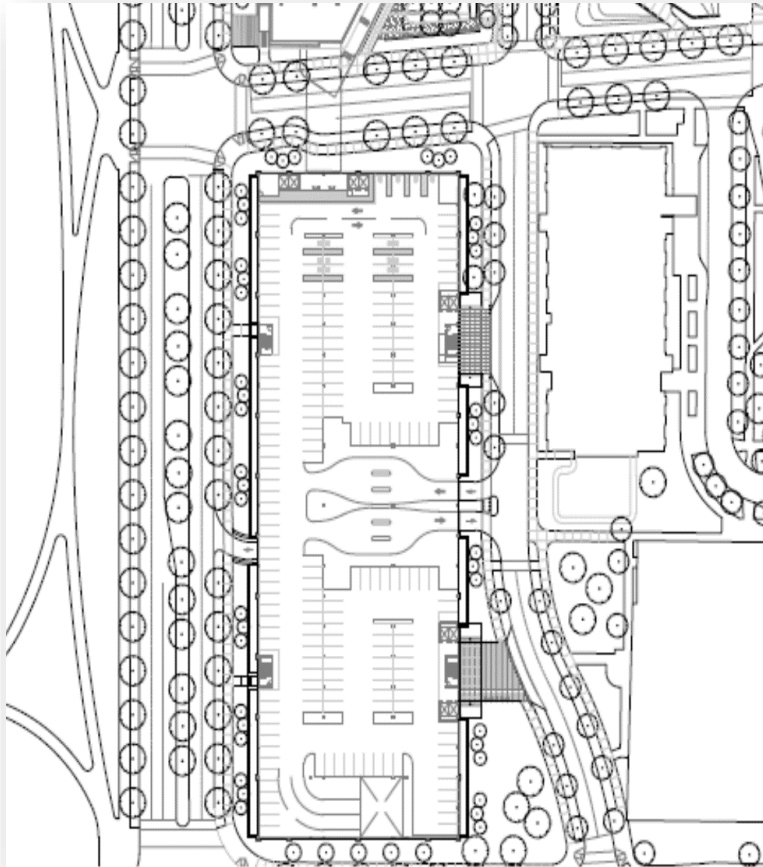
| | |
|---------------------|-------------|
| architect of record | DesignGroup |
| CM at Risk | Smoot |

PROJECT SCHEDULE

| | |
|------------------|------------|
| BoT approval | 8/18 |
| construction | 7/19-12/20 |
| facility opening | 1/21 |

PROJECT UPDATE

Project construction is underway.



WMC INPATIENT HOSPITAL GARAGE, INFRASTRUCTURE & ROAD WORK

The project will construct a 1,870-space parking garage west of McCampbell Hall. Garage construction will be phased with a portion opening in 10/2020 and the remainder open by 6/2021.

Infrastructure work includes water line connections, sewer lines and communications lines; road work includes street, curb and sidewalks on both sides of street A, including direct sidewalk connection to ingress and egress points of the garage, and street lighting on the west side.

PROJECT FUNDING

auxiliary funds

CURRENT PROJECT BUDGET

| | |
|---------------------|----------|
| construction w/cont | \$76.3M |
| total project | \$102.1M |

CONSULTANTS

| | |
|---------------------|--------------|
| architect of record | HDR |
| CM at Risk | Walsh-Turner |

PROJECT SCHEDULE

| | |
|------------------|-----------|
| BoT approval | 2/18 |
| construction | 5/19-3/21 |
| facility opening | 6/21 |

PROJECT UPDATE

Infrastructure and roadwork construction has begun.

On Time

On Budget



WMC REGIONAL AMBULATORY FACILITIES- HAMILTON ROAD

Construct an approximately 244,000 square foot medical office building and ambulatory surgery center on North Hamilton Road.

PROJECT FUNDING

auxiliary funds

CURRENT PROJECT BUDGET

| | |
|---------------------|----------|
| construction w/cont | \$89.2M |
| total project | \$137.9M |

CONSULTANTS

| | |
|---------------------|---------------|
| architect of record | DLR Group |
| CM at Risk | Daimler Group |

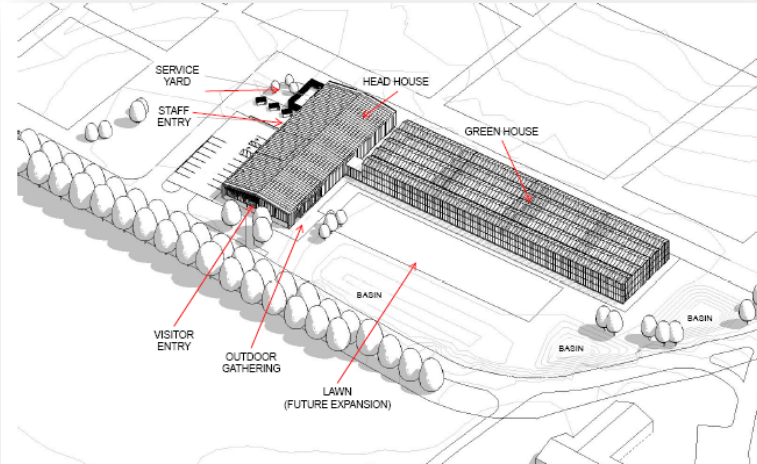
PROJECT SCHEDULE

| | |
|------------------|-----------|
| BoT approval | 4/18 |
| construction | 7/19-5/21 |
| facility opening | 7/21 |

PROJECT UPDATE

Site and foundation work is complete and steel erection work has begun.





CONTROLLED ENVIRONMENT FOOD PRODUCTION RESEARCH COMPLEX

Construct a new facility to house research and support learning in several approaches to food (plant and fish) production; research on greenhouse engineering, pest and pathogen management, and plant breeding.

PROJECT FUNDING

fundraising

CURRENT PROJECT BUDGET

| | |
|---------------------|---------|
| construction w/cont | \$31.8M |
| total project | \$35.0M |

CONSULTANTS

| | |
|---------------------|----------------|
| architect of record | Erdy McHenry |
| CM at Risk | Corna/Kokosing |

PROJECT SCHEDULE

| | |
|------------------|-------------|
| BoT approval | 6/17 |
| construction | 2/20 – 5/21 |
| facility opening | 7/21 |

PROJECT UPDATE

Project design continues with construction beginning in the spring.





NEWTON HALL – RENOVATION AND ADDITION

Construct an addition of approximately 35,000 sf to the south that will include flexible classrooms, information learning spaces and offices. Existing space will be renovated including a new façade, relocation of the entryway and plaza, and updated corridor and wellness space.

PROJECT FUNDING

department funds; fundraising; university debt; state funds

CURRENT PROJECT BUDGET

| | |
|---------------------|---------|
| construction w/cont | \$21.8M |
| total project | \$24.5M |

CONSULTANTS

| | |
|---------------------|----------------|
| architect of record | Meacham & Apel |
| CM at Risk | Ruscilli |

PROJECT SCHEDULE

| | |
|------------------|------------|
| BoT approval | 2/18 |
| construction | 4/20-10/21 |
| facility opening | 1/22 |

PROJECT UPDATE

Project design continues

On Time

On Budget



LACROSSE STADIUM



Construct a new outdoor lacrosse stadium in the Athletics District, east of the Covelli Center, for the Men’s and Women’s varsity programs. The venue will include an outdoor field, seating for 2,500, locker rooms and concessions.

PROJECT FUNDING

fundraising

CURRENT PROJECT BUDGET

| | |
|---------------------|---------|
| construction w/cont | \$17.7M |
| total project | \$20.0M |

CONSULTANTS

| | |
|---------------------|-----|
| architect of record | TBD |
| CM at Risk | TBD |

PROJECT SCHEDULE

| | |
|------------------|-------------|
| BoT approval | 8/19 |
| construction | 10/20-11/21 |
| facility opening | 1/22 |

PROJECT UPDATE

Design team selection is underway





DODD – PARKING GARAGE

Construct a six-level parking facility for approximately 1,100 cars on the former Dodd Hall surface lot.

PROJECT FUNDING

university funds; partner funds

CURRENT PROJECT BUDGET

| | |
|---------------------|---------|
| construction w/cont | \$30.7M |
| total project | \$33.3M |

CONSULTANTS

| | |
|---------------------|-----|
| architect of record | TBD |
| CM at Risk | TBD |

PROJECT SCHEDULE

| | |
|------------------|-----------|
| BoT approval | 8/19 |
| construction | 7/20-2/22 |
| facility opening | 2/22 |

PROJECT UPDATE

Design team selection is underway





ARTS DISTRICT

Renovate and expand the School of Music building and construct a new Department of Theatre building.

The project will also extend Annie and John Glenn Avenue from College Road to High Street and make modifications to College Road and adjacent pedestrian spaces. The School of Music project will be available for occupancy 3/2022 and the Department of Theatre facility will open 8/2022.

PROJECT FUNDING

university funds

CURRENT PROJECT BUDGET

| | |
|---------------------|----------|
| construction w/cont | \$144.0M |
| total project | \$161.6M |

CONSULTANTS

| | |
|---------------------|---------------------|
| architect of record | DLR Group |
| CM at Risk | Holder Construction |

PROJECT SCHEDULE

| | |
|------------------|-----------|
| BoT approval | 8/15 |
| construction | 6/19-6/22 |
| facility opening | 8/22 |

PROJECT UPDATE

Site work is underway.





CELESTE LAB RENOVATION

Upgrade the building mechanical, electrical and plumbing systems; renovate chemistry labs and support spaces; replace the roof and windows.

PROJECT FUNDING

university funds; state funds

CURRENT PROJECT BUDGET

| | |
|---------------------|---------|
| construction w/cont | \$25.1M |
| total project | \$29.0M |

CONSULTANTS

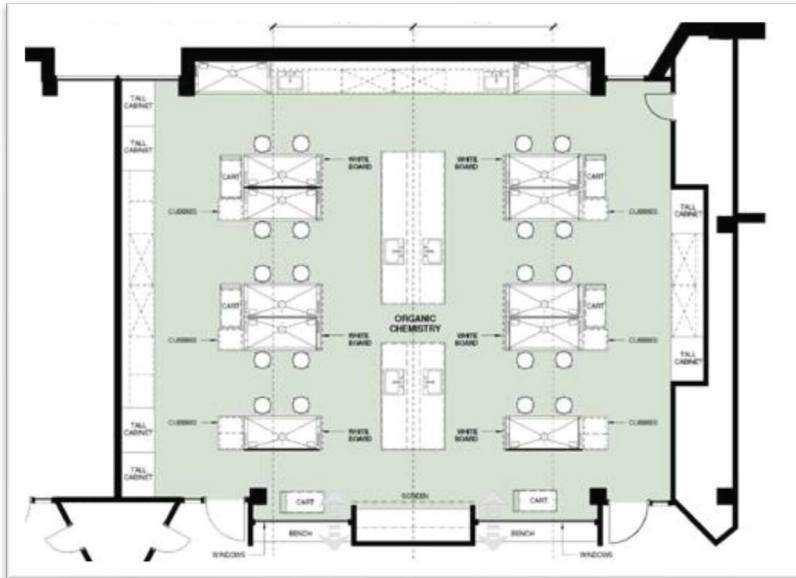
| | |
|---------------------|--------|
| architect of record | BHDP |
| CM at Risk | Elford |

PROJECT SCHEDULE

| | |
|------------------|-----------|
| BoT approval | 8/18 |
| construction | 5/20-8/22 |
| facility opening | 8/22 |

PROJECT UPDATE

Project design is underway.





INTERDISCIPLINARY HEALTH SCIENCES CENTER

Multi-phase renovation of 150,000 sf and addition of 100,000 sf to create a collaborative campus for inter-professional education throughout the health science, including the College of Medicine, Optometry, Nursing, and the School of Health and Rehabilitation Sciences. Program spaces include classrooms, anatomy labs, research labs, administrative and building support.

PROJECT FUNDING

auxiliary funds; department funds; state funds; fundraising

CURRENT PROJECT BUDGET

| | |
|---------------------|----------|
| construction w/cont | \$135.4M |
| total project | \$155.9M |

CONSULTANTS

| | |
|---------------------|-------------|
| architect of record | Acock Assoc |
| CM at Risk | Gilbane |

PROJECT SCHEDULE

| | |
|------------------|------------|
| BoT approval | 11/17 |
| construction | 10/19-7/23 |
| facility opening | 8/23 |

PROJECT UPDATE

Enabling construction work has begun including site utilities, Anatomy wing foundation, and 11th Avenue preparation. Design continues and will be done by the end of the year.

On Time

On Budget



INSTRUCTIONAL SCIENCE BUILDINGS DEFERRED MAINTENANCE

Renew mechanical, electrical and plumbing services in selected buildings, including Mendenhall Laboratory, Bolz Hall, Howlett Hall, and Parks Hall.

PROJECT FUNDING
university debt

| | |
|-------------------------------|---------|
| CURRENT PROJECT BUDGET | |
| construction w/cont | \$23.0M |
| total project | \$25.0M |

| | |
|---------------------|----------------|
| CONSULTANTS | |
| architect of record | Hasenstab |
| CM at Risk | Whiting-Turner |

| | |
|-------------------------|-------|
| PROJECT SCHEDULE | |
| BoT approval | 11/18 |
| construction | |
| facility opening | |

PROJECT UPDATE

Assessments for Bolz Hall and Mendenhall Laboratory have been completed; assessments for Howlett Hall and Parks Hall are underway.

 On Time

 On Budget



THE OHIO STATE UNIVERSITY

Capital Projects

Annual Report – Fiscal Year 2019



Projects Approved by the Board of Trustees – FY 2019

| Project Name | Approval Rec'd FY19 | | Project Name | Approval Rec'd FY19 | |
|-----------------------------------------------------------------|---------------------|-----|------------------------------------------|---------------------|-----|
| | Des | Con | | Des | Con |
| Celeste Lab Renovation | ✓ | | Ohio Union – Infrastructure Updates | ✓ | ✓ |
| Indoor Tennis Center | ✓ | ✓ | WMC Inpatient Hospital Garage | | ✓ |
| Newark – Science & Technology Bldg | ✓ | ✓ | Interdisciplinary Health Sciences Center | | ✓ |
| Fire Systems Replacements – Phase 3 | ✓ | ✓ | Energy Advancement and Innovation Center | ✓ | |
| HVAC Replacements – Phase 2 | ✓ | ✓ | WMC Inpatient Hospital – CSS | | ✓ |
| Road & Bridge Improvements – Phase 3 | ✓ | ✓ | WMC Reg Ambulatory Fac – Dublin Rd | ✓ | |
| Health Sciences Faculty Office & Opt Clinc | | ✓ | Arts District | | ✓ |
| WMC Reg Ambulatory Fac – Hamilton Rd | | ✓ | Morehouse - 7th – 8th Floor Updates | ✓ | ✓ |
| Wooster New Lab Building | | ✓ | Taylor Tower – Main Entrance | ✓ | ✓ |
| Instructional Science Buildings Def Maint | ✓ | | Frank Stanton VMC Spectrum of Care | ✓ | ✓ |
| WMC West Campus Ambulatory Fac | ✓ | | Service Building Annex Renovation | | ✓ |
| Lincoln – 11 th & 13 th Floor Office Reno | ✓ | ✓ | | | |

Total Approved = \$516.6M



Active Projects as of the end of the Fiscal Year

| | FY 2018 | | FY 2019 | |
|-----------------|---------------|-----------------|---------------|-------------------|
| | # of Projects | Total Budget | # of Projects | Total Budget |
| Study | 18 | \$8.9M | 15 | \$3.8M |
| Emerging/Funded | 81 | \$55.6M | 78 | \$79.4M |
| Design/Bidding | 104 | \$235.4M | 85 | \$484.5M |
| Construction | 271 | \$724.9M | 164 | \$826.1M |
| Total | 474 | 1,024.7M | 342 | \$1,393.8M |

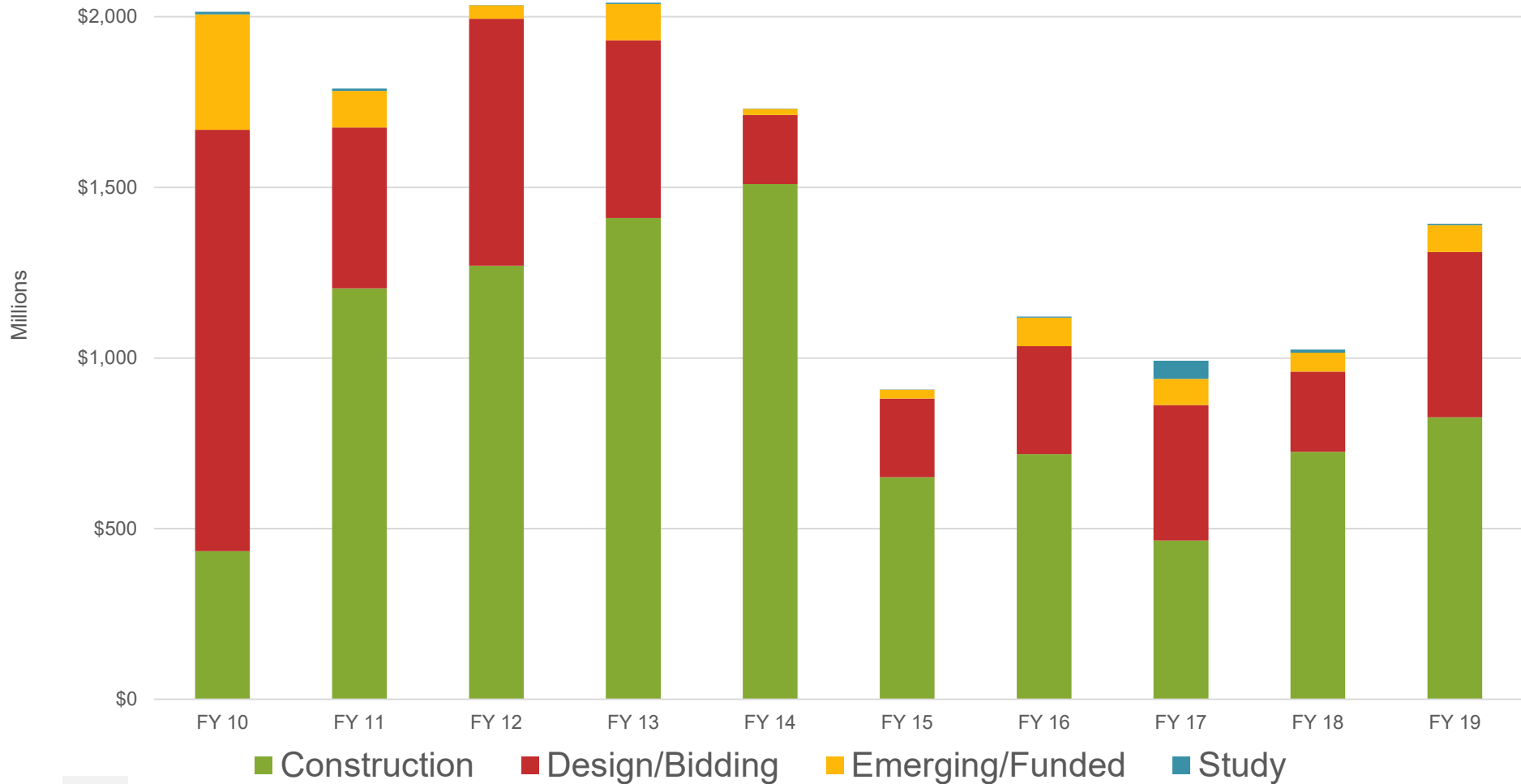


Board Approved Projects Completed in FY 2019

| PROJECT | COMPLETION | BUDGET | ON TIME | ON BUDGET |
|--------------------------------------------------|------------|-----------------|---------|-----------|
| University Hospital – Replace Air Handling Units | 7/2018 | \$9.4M | | |
| Wexner Medical Center – 72-Bed Build Out | 7/2018 | \$60.0M | | |
| Roof Repair and Replacements | 8/2018 | \$5.6M | | |
| Elevator Safety Repairs and Replacements | 8/2018 | \$4.8M | | |
| Vet Hospital – Simulation Lab | 8/2018 | \$9.0M | | |
| Transportation Plan Implementation | 8/2018 | \$15.3M | | |
| Mirror Lake Enhancements | 9/2018 | \$8.5M | | |
| Airport Enhancements | 10/2018 | \$20.0M | | |
| Schumaker Student-Athlete Dev Complex | 10/2018 | \$43.0M | | |
| Athletics District – Road and Storm Water | 11/2018 | \$8.0M | | |
| WHAC – East Wing Renovation | 5/2019 | \$7.9M | | |
| Covelli Multi-Sport Arena | 5/2019 | \$49.7M | | |
| Total | | \$241.2M | | |



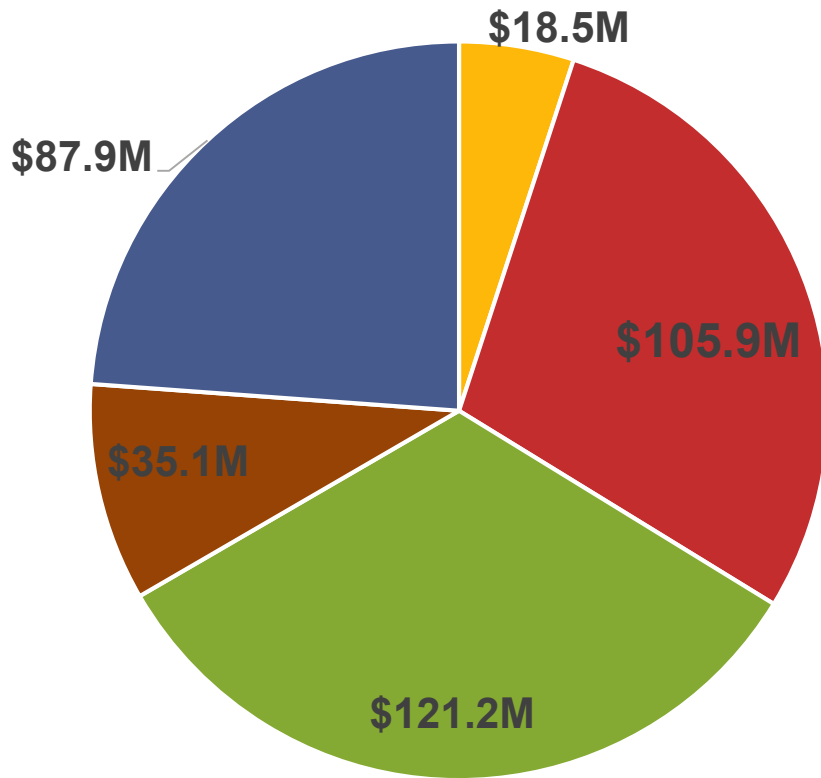
Total Budget for Active Projects - FY 2010 to FY 2019



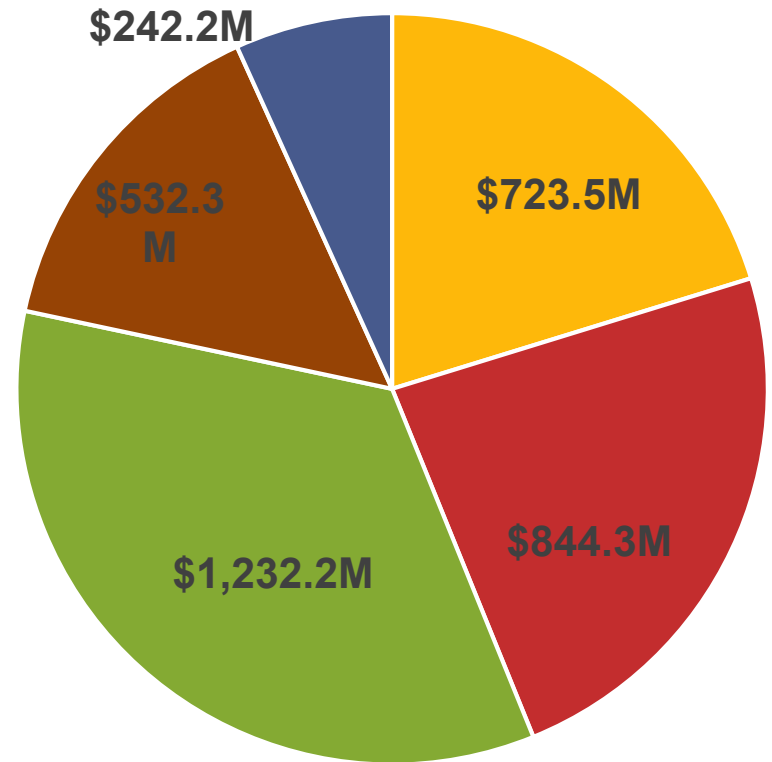


Total Expenditures by District

FY 2019
Total Exp = \$368.6M



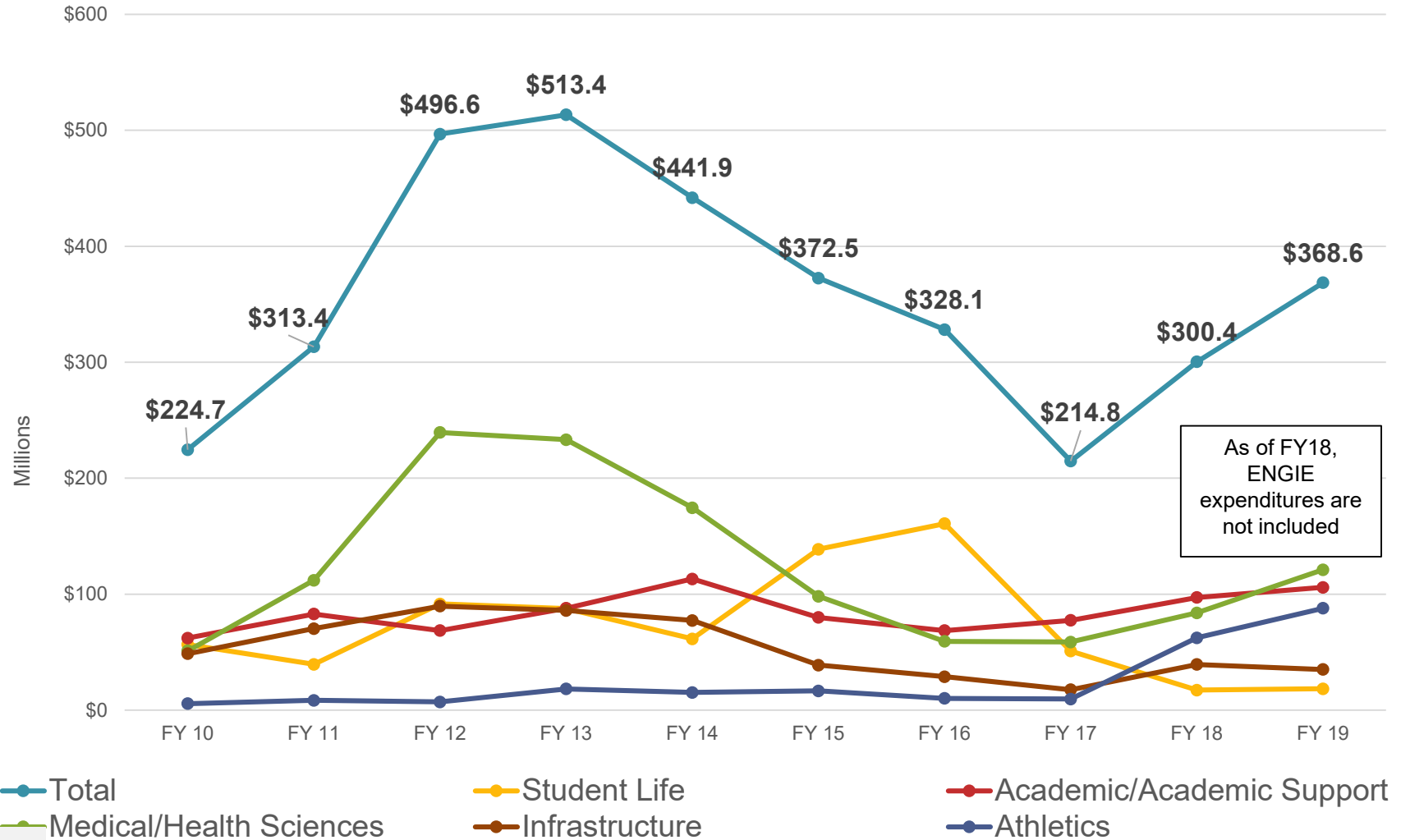
FY 2010-2019
Total Exp = \$3,574.4M



- Student Life
- Academic/Academic Support
- Medical/Health Sciences
- Infrastructure
- Athletics



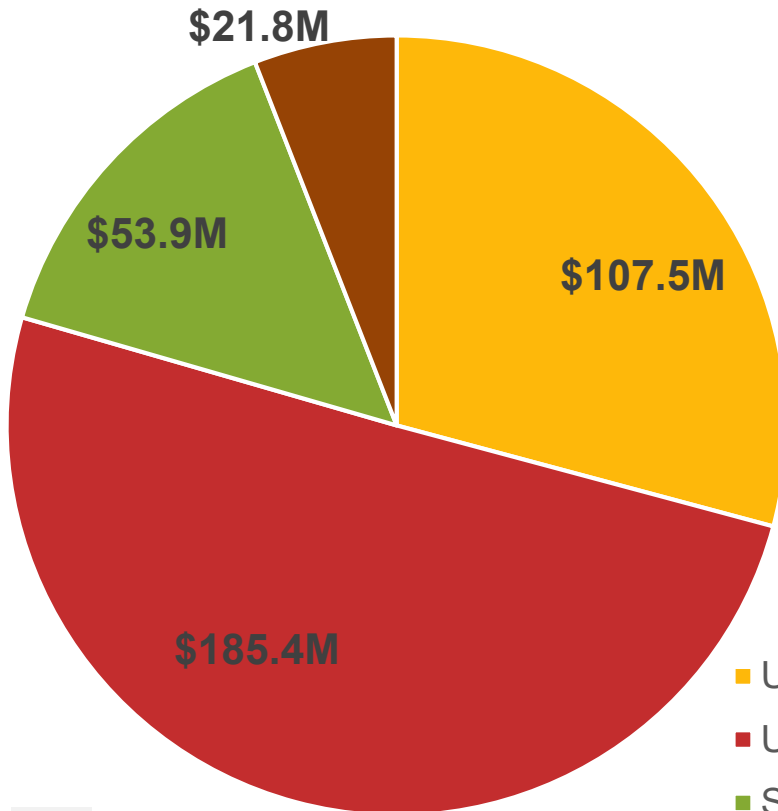
Total Expenditures by Category – FY 2010-FY 2019



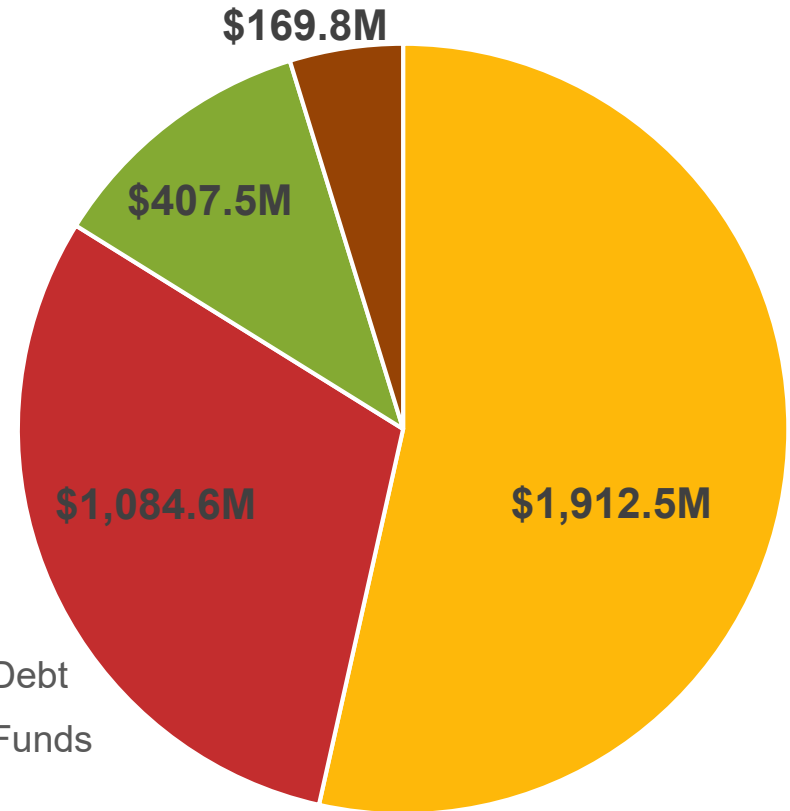


Total Expenditures by Funding Source

FY 2019
Total Exp = \$368.6M



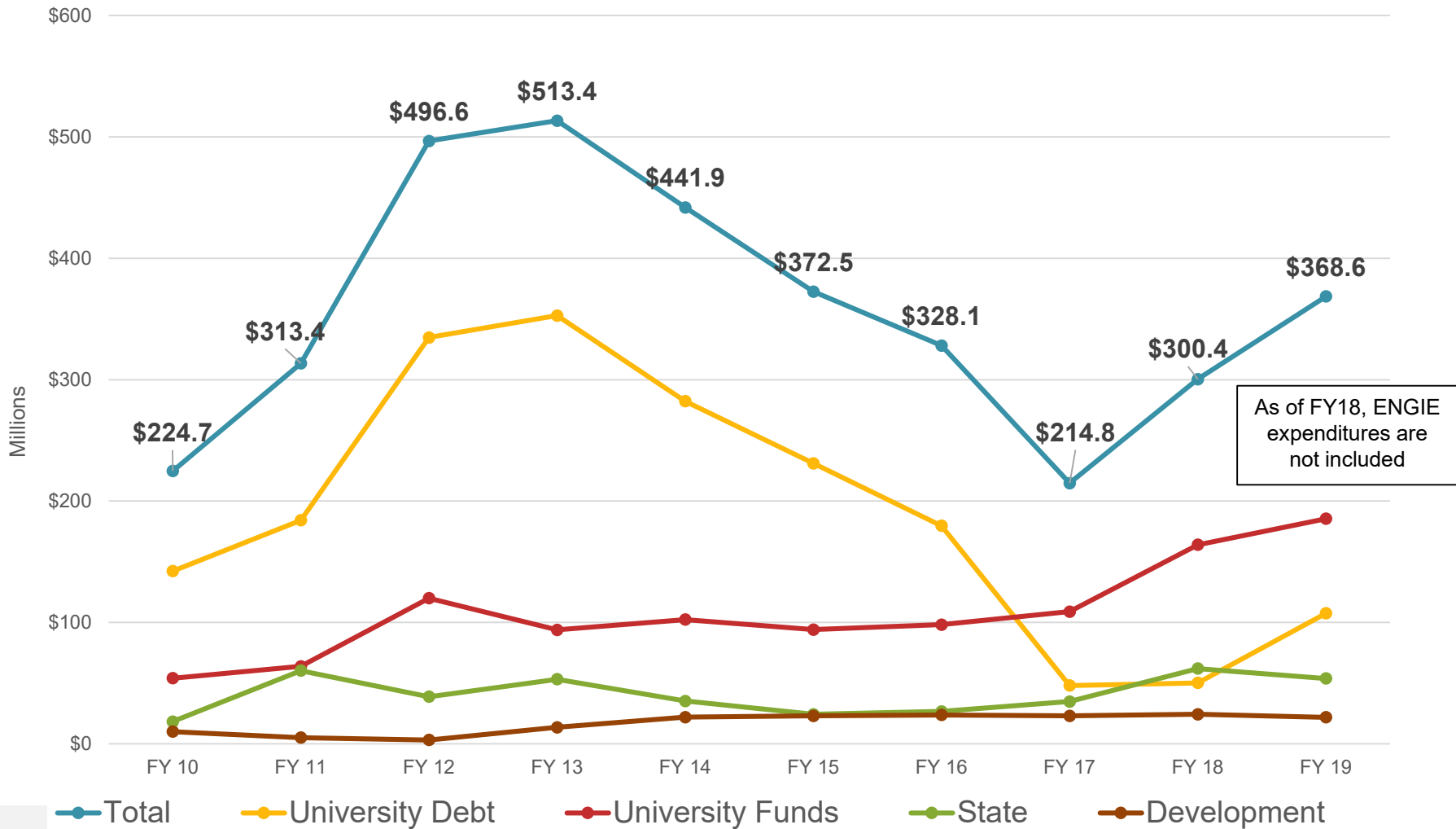
FY 2010-2019
Total Exp = \$3,574.4M



- University Debt
- University Funds
- State
- Development



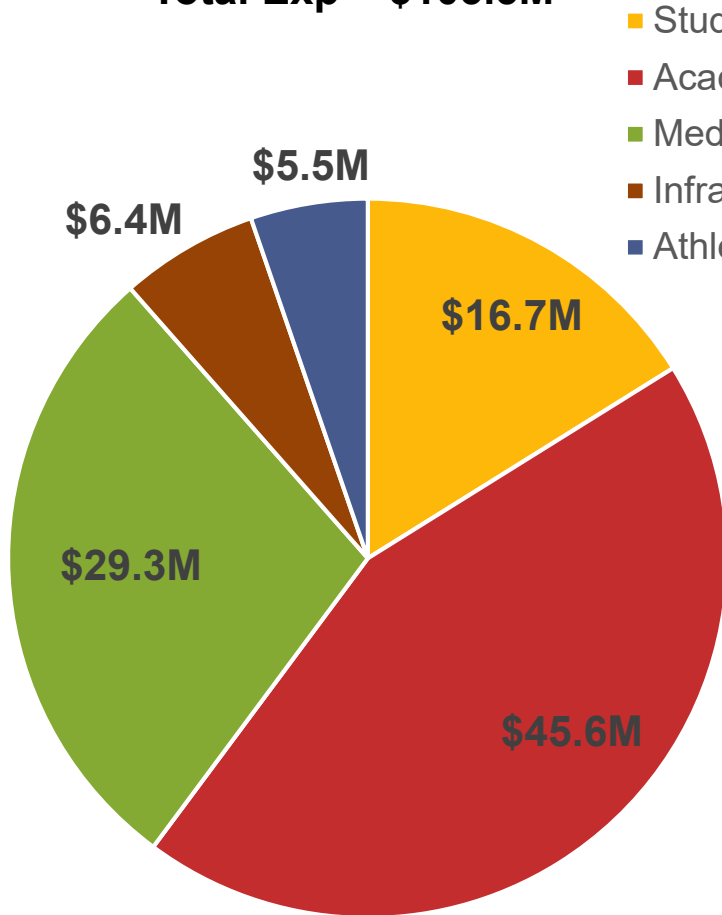
Total Expenditures by Funding Source – FY 2010-FY 2019



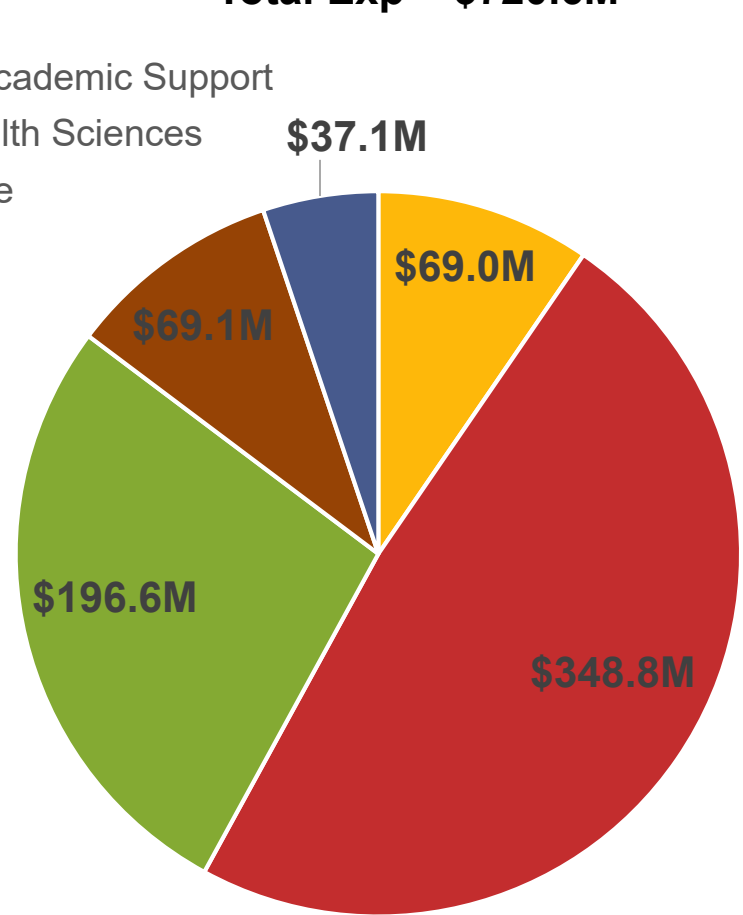


Total Expenditures by Category-Projects Under \$4M

FY 2019
Total Exp = \$103.5M

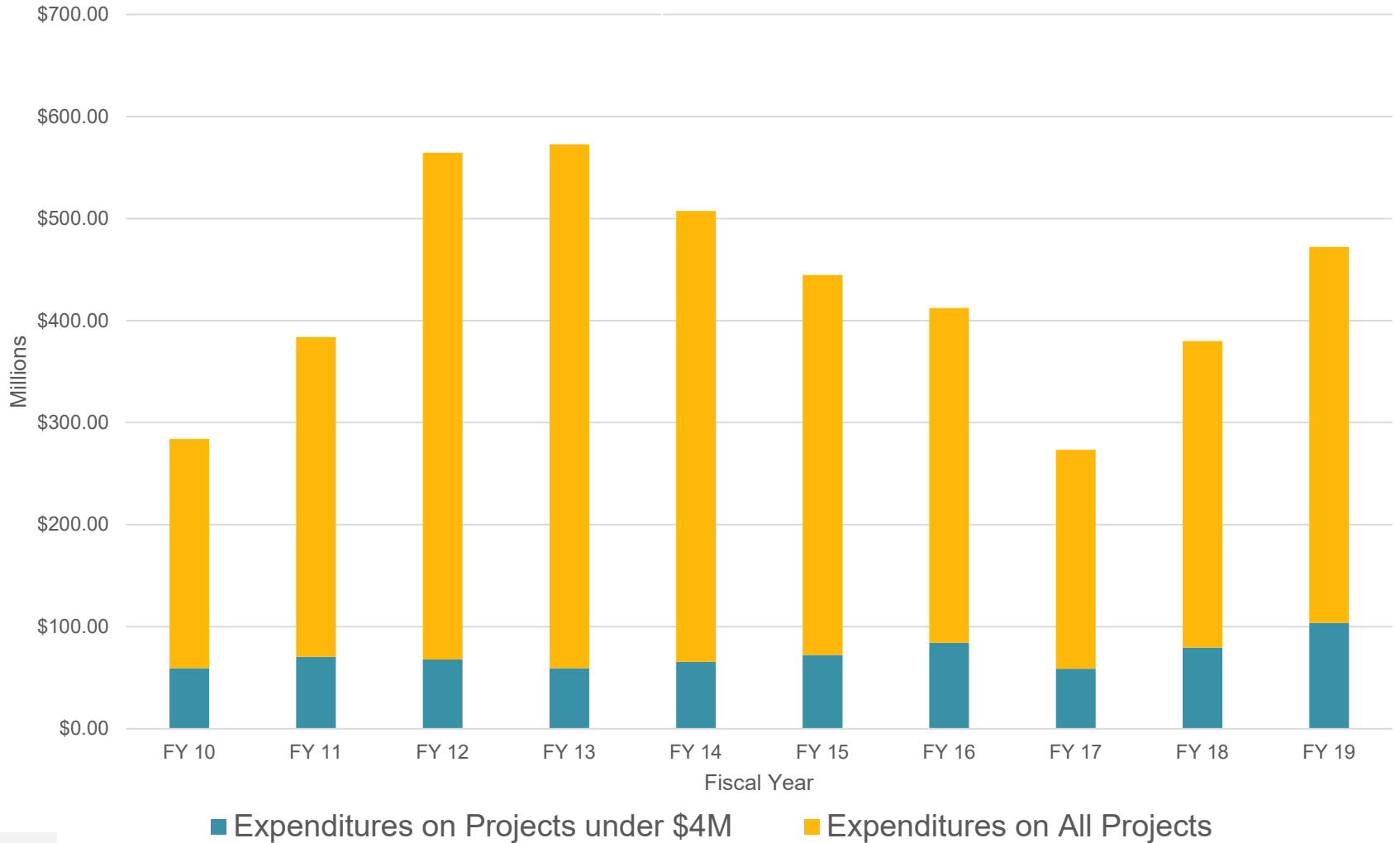


FY 2010-2019
Total Exp = \$720.6M





Total Expenditures – All Projects vs Projects Under \$4M



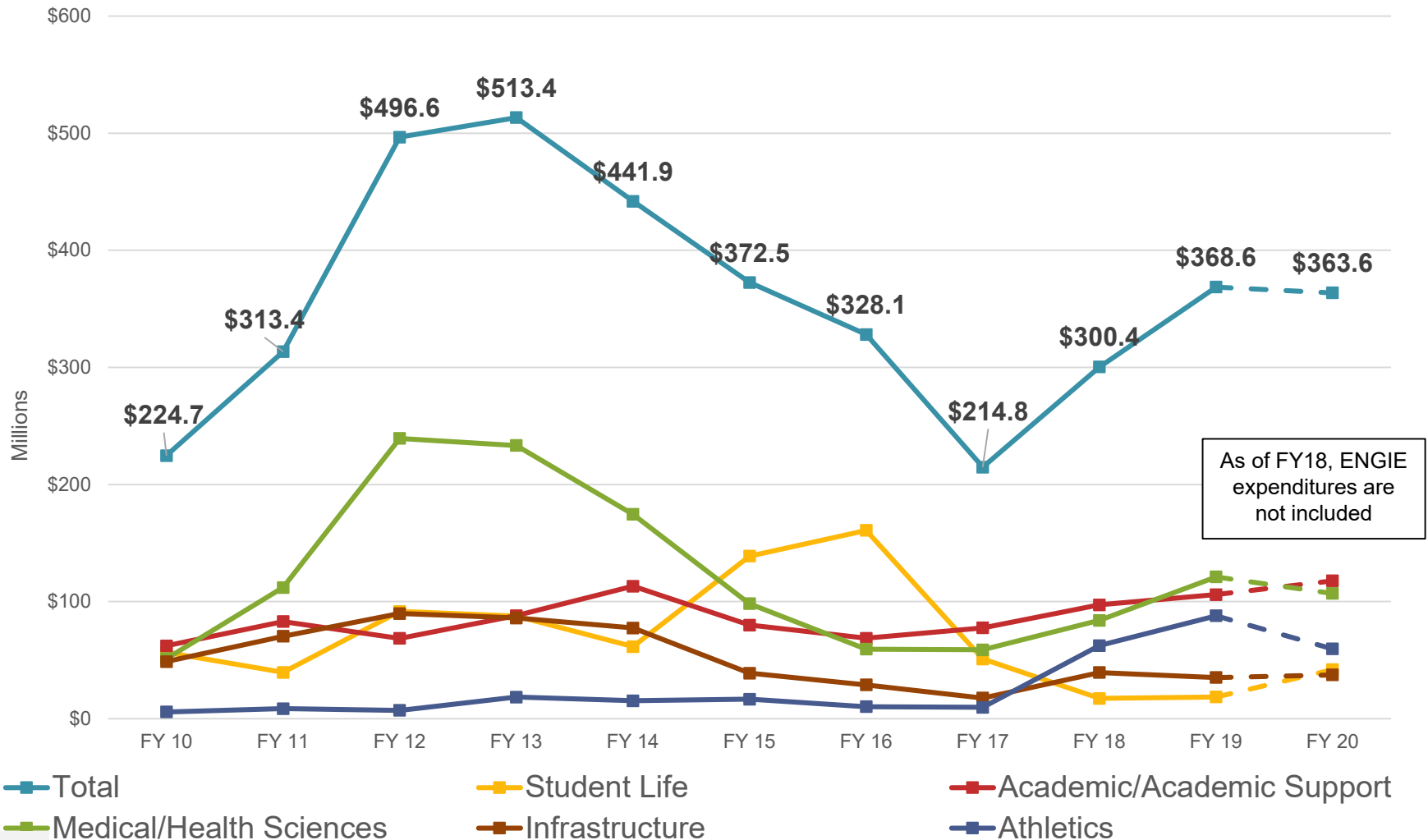


Projects Under \$4M Completed by District

| DISTRICT | FY 2019 | | FY 2010 to 2019 | |
|-------------------------|---------------|-----------------|-----------------|-----------------|
| | # OF PROJECTS | TOTAL BUDGET | # OF PROJECTS | TOTAL BUDGET |
| Student Life | 41 | \$18.4M | 210 | \$74.5M |
| Academic/Academic Sup | 329 | \$46.4M | 2,895 | \$346.8M |
| Medical/Health Sciences | 110 | \$27.5M | 983 | \$177.7M |
| Infrastructure | 5 | \$7.4M | 134 | \$71.6M |
| Athletics | 10 | \$5.8M | 181 | \$33.3M |
| TOTAL | 495 | \$105.5M | 4,405 | \$703.9M |

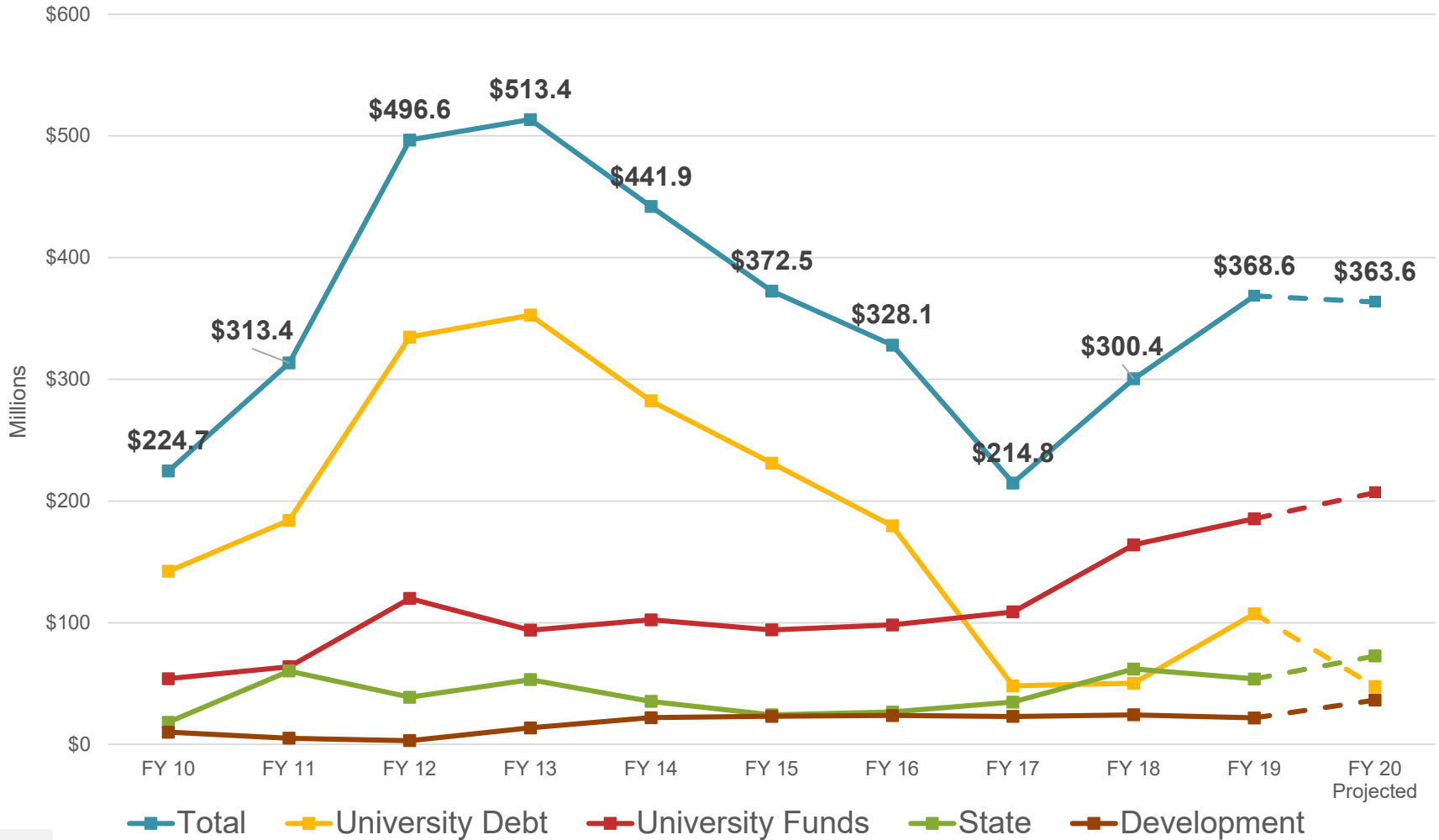


Total Expenditures by Category – FY 2010-FY 2020 (Projected)





Total Expenditures by Funding Source – FY 2010-FY 2020 (Projected)



Controlled Environment Food Production Research Complex

Master Planning & Facilities Committee

November 21, 2019



THE OHIO STATE UNIVERSITY

CEFPRC PROGRAM

Graham Cochran

College of Food, Agricultural, and Environmental Sciences



THE OHIO STATE UNIVERSITY

CONTROLLED ENVIRONMENT AGRICULTURE (CEA) GOALS



1. High yield and quality food
2. Year-round production
3. High efficiency of energy and resource use

- **CEA is rapidly growing**
- **Ohio has the nation's fastest growing CEA**
- **Ohio CEA area tripled from 2012-2017**

***USDA Census**

WATERMAN & A WORLD CLASS CONTROLLED ENVIRONMENT RESEARCH FACILITY



- Innovation
- Inspiration
- Creation
- Discovery
- Collaboration

CEFPRC OFFERS MORE INTERDISCIPLINARY COLLABORATIONS AROUND CEA



- Crop physiology
- Remote sensing and data instrumentation
- Genetics/genomics
- Greenhouse engineering
- Computer science
- Plant pathology
- Entomology
- Food science/human health
- Medicine
- Economics and consumer science



NEW RESEARCH OPPORTUNITY

Smart CEA: Integration of AI (artificial intelligence) for energy, water and food systems

OPPORTUNITIES FOR ON-CAMPUS CEA RESEARCH – VISIBILITY



Gotham Greens



Vineland Research & Innovation Centre

CEFPRC DESIGN REVIEW

Keith Myers

Planning, Architecture and Real Estate



THE OHIO STATE UNIVERSITY

CARMACK ROAD

LANE AVENUE

RESEARCH FIELDS

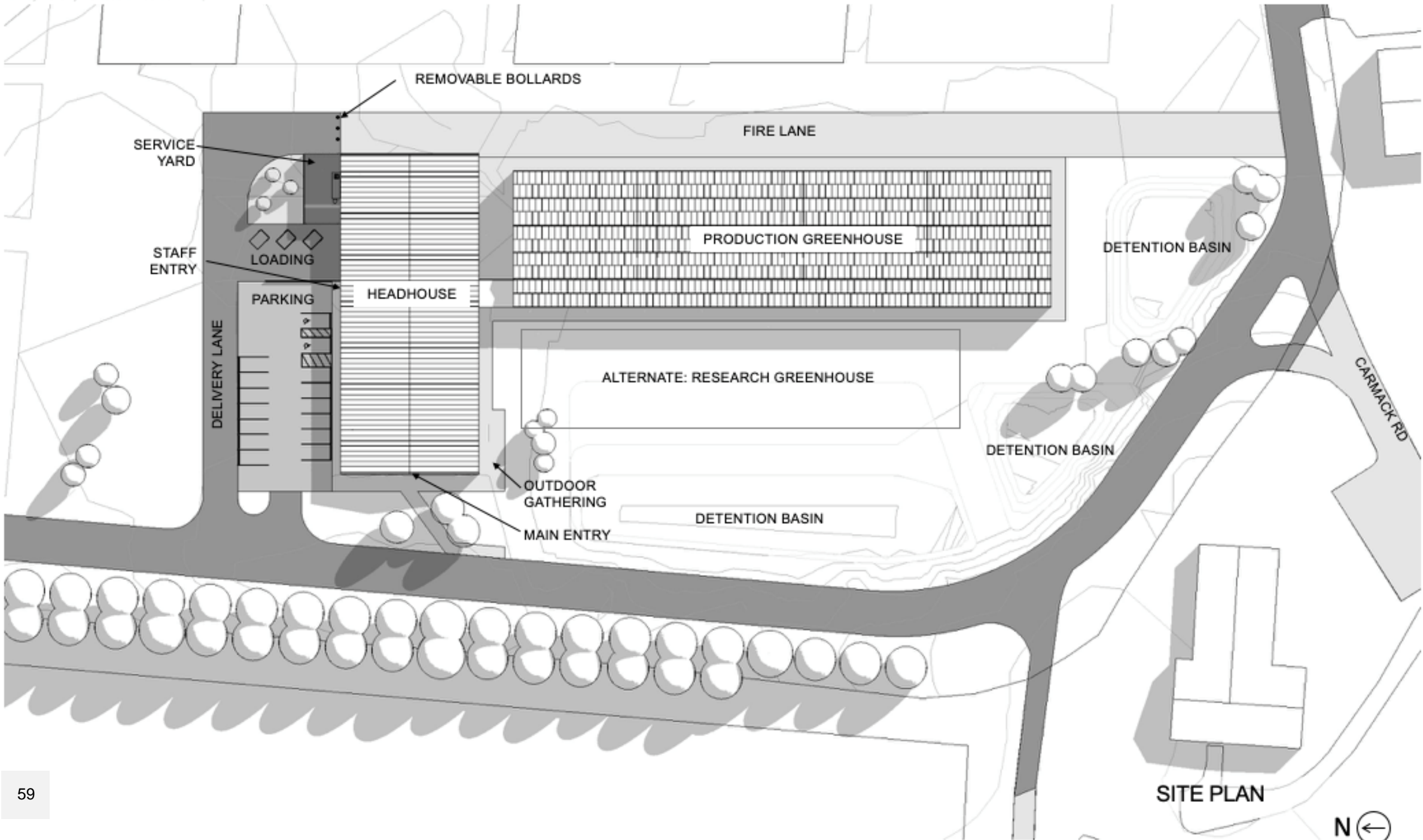
CEFPC

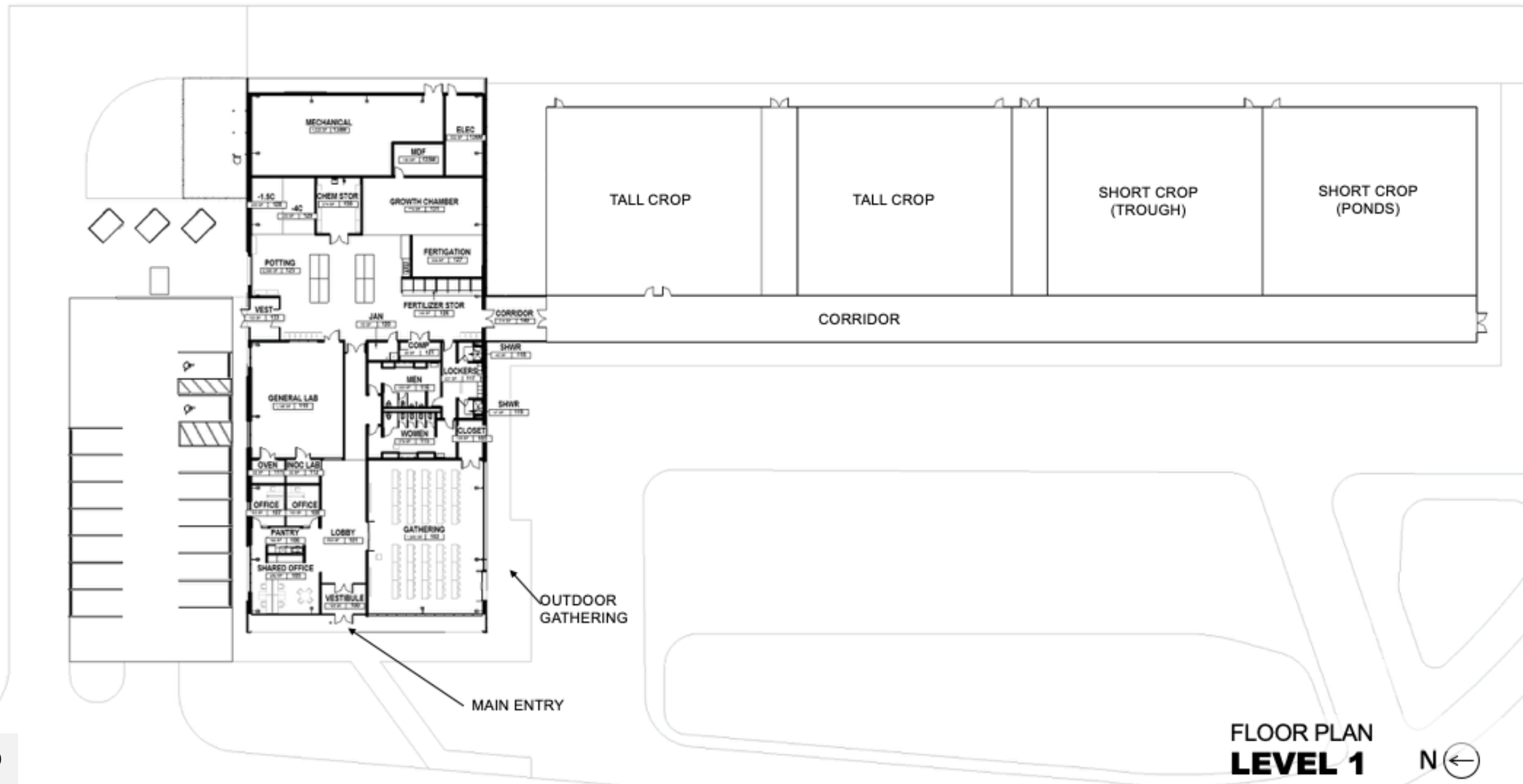
RESEARCH FIELDS

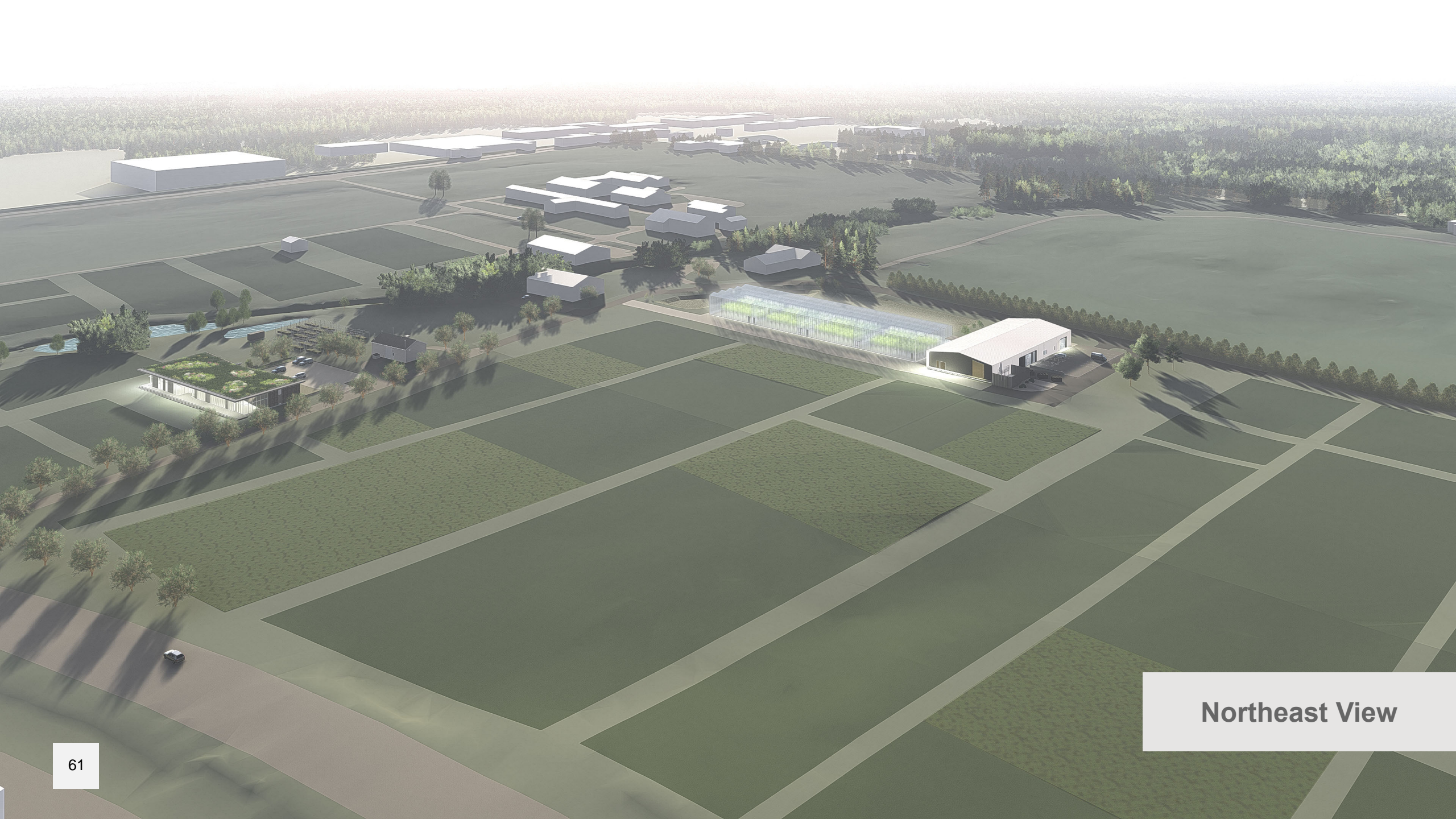
FCE

KENNY ROAD

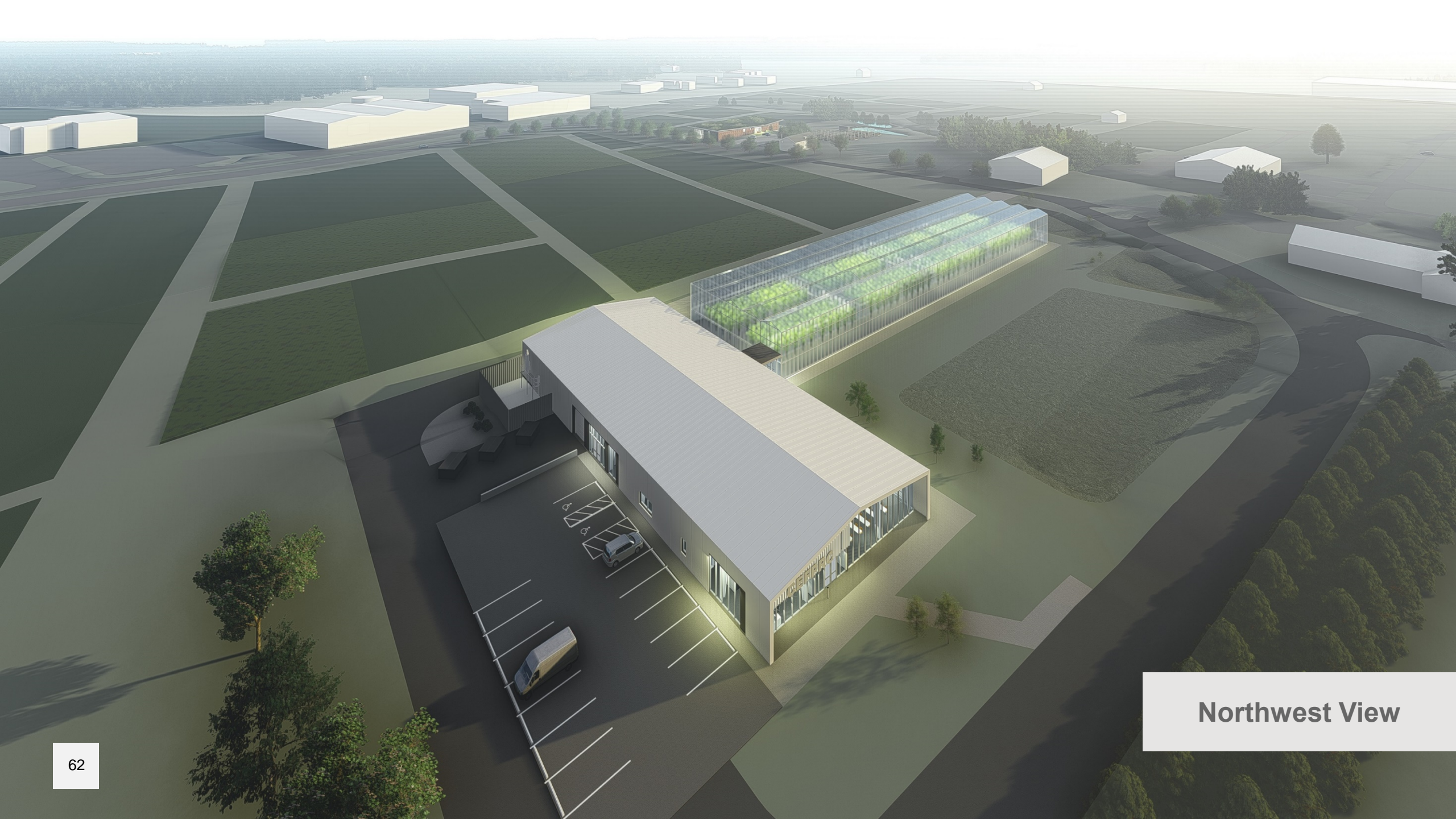




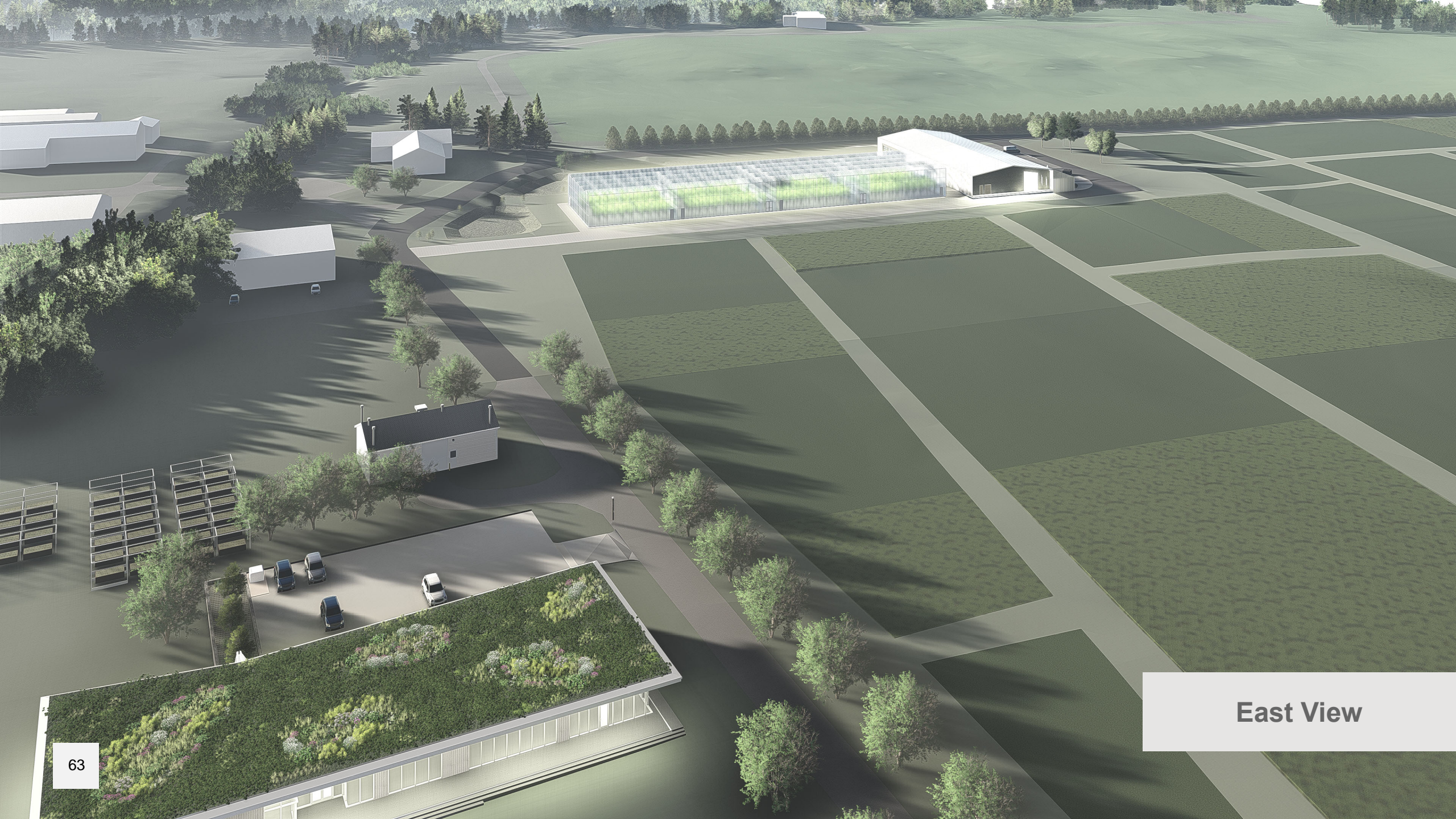




Northeast View



Northwest View



East View



Southwest View

**APPROVAL TO ENTER INTO/INCREASE PROFESSIONAL SERVICES
AND ENTER INTO/INCREASE CONSTRUCTION CONTRACTS**

APPROVAL TO ENTER INTO PROFESSIONAL SERVICES CONTRACTS
WMC Loading Dock Expansion and Renovation

APPROVAL TO ENTER INTO/INCREASE PROFESSIONAL SERVICES AND CONSTRUCTION CONTRACTS
Controlled Environment Food Production Research Complex
Lincoln Tower Office Renovations
Wexner Medical Center Inpatient Hospital
WMC West Campus Ambulatory Facilities

Synopsis: Authorization to enter into professional services and construction contracts, as detailed in the attached materials, is proposed.

WHEREAS in accordance with the attached materials, the university desires to enter into/increase professional services contracts for the following projects; and

| | Prof. Serv. Approval Requested | Total Requested | |
|-------------------------------------------|-----------------------------------|--------------------|-----------------|
| WMC Loading Dock Expansion and Renovation | \$0.5M | \$0.5M | Auxiliary funds |

WHEREAS in accordance with the attached materials, the university desires to enter into/increase professional services contracts and enter into/increase construction contracts for the following projects; and

| | Prof. Serv. Approval Requested | Construction Approval Requested | Total Requested | |
|---------------------------------------------------------|--------------------------------------|---------------------------------------|--------------------|----------------------------------------------------|
| Controlled Environment Food Production Research Complex | \$1.4M | \$30.8M | \$32.2M | Fundraising University debt University funds |
| Lincoln Tower Office Renovations (increase) | \$0.2M | \$1.8M | \$2.0M | Auxiliary funds |
| Wexner Medical Center Inpatient Hospital | \$21.4M | \$7.8M | \$29.2M | Auxiliary funds |
| WMC West Campus Ambulatory Facilities | \$2.5M | \$17.7M | \$20.2M | Auxiliary funds |

**APPROVAL TO ENTER INTO PROFESSIONAL SERVICES
AND ENTER INTO/INCREASE CONSTRUCTION CONTRACTS (CONT)**

WHEREAS the Capital Investment Plan (CIP) outlines capital projects recommended for funding and was approved by the University Board of Trustees on August 30, 2019; and

WHEREAS approval for professional services and construction for the Wexner Medical Center Inpatient Hospital is needed to advance the design and to enable construction coordination; and

WHEREAS the full cost of professional services and enabling construction for the Wexner Medical Center Inpatient Hospital was not known at the time the CIP was approved; and

WHEREAS the Master Planning and Facilities Committee has reviewed the projects listed above for alignment with all applicable campus plans and guidelines; and

WHEREAS the Finance Committee has reviewed the projects listed above for alignment with the Capital Investment Plan and other applicable financial plans:

NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby approves that the fiscal year 2020 Capital Investment Plan be amended to include professional services and construction for the Wexner Medical Center Inpatient Hospital in the amount of \$29.2M; and

BE IT RESOLVED, That the Board of Trustees hereby approves that the President and/or Senior Vice President for Business and Finance be authorized to enter into/increase professional services and construction contracts for the projects listed above in accordance with established university and state of Ohio procedures, with all actions to be reported to the board at the appropriate time.

Project Data Sheet for Board of Trustees Approval

WMC Loading Dock Expansion and Renovation

OSU-200238 (CNI#19000137)

Project Location: Doan Hall

- approval requested and amount**
 professional services (through DD) \$0.5M
- project budget**
 professional services TBD
 construction w/contingency TBD

 total project budget TBD

- project funding**
 university debt
 fundraising
 university funds
 auxiliary funds
 state funds
- project schedule**
 BoT professional services approval 11/19
 design/bidding
 construction
 facility opening



- project delivery method**
 general contracting
 design/build
 construction manager at risk
- planning framework**
 - o this project is included in the FY 2020 Capital Investment Plan and is based on a study of dock operations completed in March 2018
 - o final project scope and budget will be validated during design
- project scope**
 - o the project will renovate and expand the clean and soiled staging area, add additional soiled dock doors, upgrade the pneumatic trash and linen system
 - o the expanded dock will support the continued growth of the Medical Center
- approval requested**
 - o approval is requested to enter into professional services contracts through Design Development

- project team**
 University project manager: Robin Faires
 AE/design architect: TBD
 CM at Risk TBD

Project Data Sheet for Board of Trustees Approval

Controlled Environment Food Production Research Complex

OSU-160919 (CNI# 16000011, 17000008, 17000152 & 19000142)

Project Location: Waterman Laboratory

- **approval requested and amount**

| | |
|----------------------------|---------|
| professional services | \$1.4M |
| construction w/contingency | \$30.8M |

- **project budget**

| | |
|-----------------------------|----------------|
| professional services | \$4.2M |
| construction w/contingency | \$30.8M |
| total project budget | \$35.0M |

- **project funding**

- university debt
- fundraising
- university funds
- auxiliary funds
- state funds

- **project schedule**

| | |
|------------------------------------|---------------|
| BoT professional services approval | 06/17 |
| design/bidding | 10/17 – 03/20 |
| BoT construction approval | 11/19 |
| construction | 03/20 – 01/22 |
| facility opening | 03/22 |

- **project delivery method**

- general contracting
- design/build
- construction manager at risk

- **planning framework**

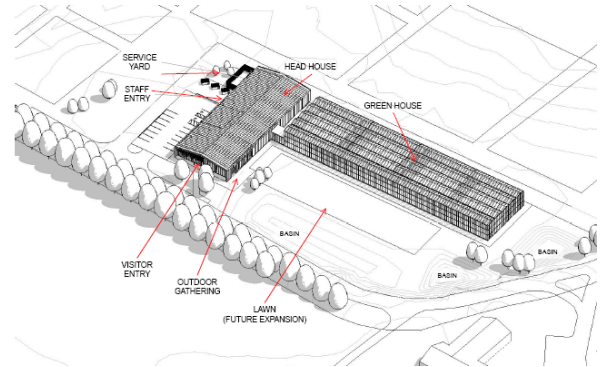
- a study was completed in 2016 to identify site and program requirements
- program and estimate reconciliation completed July 2019
- this project is included in the FY17 - FY20 Capital Investment Plans

- **project scope**

- the project will construct a new horticulture greenhouse complex facility that will address urban and traditional food research production
- the project will be constructed at Waterman Agriculture and Natural Resources Laboratory and will include research, teaching and outreach in a new controlled horticulture environment

- **approval requested**

- approval is requested to increase professional services contracts and enter into construction contracts



- **project team**

| | |
|-----------------------------|---------------------------------|
| University project manager: | Brandon Shoop |
| AE/design architect: | Erdy McHenry Architecture LLC |
| CM at Risk: | Corna/Kokosing Construction Co. |

Project Data Sheet for Board of Trustees Approval

Lincoln Tower Office Renovations

OSU-190192 (CNI# 18000154, 19000137)

Project Location: Lincoln Tower

- **approval requested and amount**

increase professional services and construction

| | Orig | Incr | Total |
|---------------|--------|--------|--------|
| prof services | \$0.6M | \$0.2M | \$0.8M |
| construction | \$4.4M | \$1.8M | \$6.2M |

- **project budget**

| | |
|----------------------------|--------|
| professional services | \$0.8M |
| construction w/contingency | \$6.2M |
| <hr/> | |
| total project budget | \$7.0M |

- **project funding**

- university debt
- development funds
- university funds
- auxiliary funds
- state funds

- **project schedule**

| | |
|----------------------------|---------------|
| BoT prof svc/cons approval | 11/18 |
| design/bidding | 12/18 – 10/19 |
| construction | 11/19 – 06/20 |
| facility opening | 06/20 |

- **project delivery method**

- general contracting
- design/build
- construction manager at risk

- **planning framework**

- this project is included in the FY 2019 and FY 2020 Capital Investment Plans

- **project scope**

- the project will renovate the 11th, 12th and 13th floors for Hematology and Medical Oncology faculty and staff currently located in Starling Loving
- the project increase is a result of adding a floor to the scope
- overall scope includes a redesign of the space and installation of modular workspaces
- the proposed layout allows for faculty and staff growth consistent with the Wexner Medical Center strategic plan

- **approval requested**

- approval is requested to increase professional services and construction contracts

- **project team**

| | |
|-----------------------------|-------------------------|
| University project manager: | Lance Timmons |
| AE/design architect: | Shyft Collective Design |
| General contract: | |

Project Data Sheet for Board of Trustees Approval

Wexner Medical Center Inpatient Hospital

OSU-180391 (CNI# 17000099)

Project Location: 10th Avenue / Cannon Drive

- approval requested and amount**

| | |
|-------------------------|---------|
| professional services | \$21.4M |
| construction (enablers) | \$7.8M |

- project budget**

| | |
|----------------------------|-----------|
| professional services | TBD |
| construction w/contingency | TBD |
| <hr/> total project budget | <hr/> TBD |

- project funding**
 - university debt
 - fundraising
 - university funds
 - auxiliary funds (health system)
 - state funds

- project schedule**

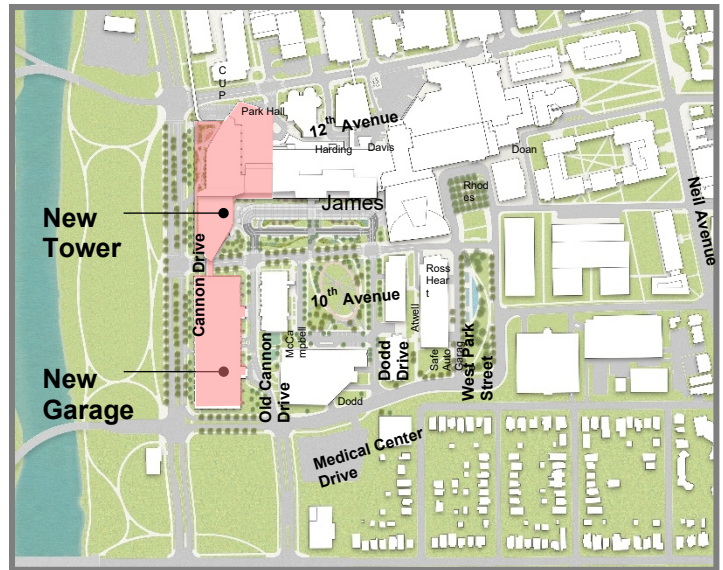
| | |
|------------------------------------|------|
| BoT professional services approval | 2/18 |
| design/bidding | |
| construction | |
| facility opening | |

- project delivery method**
 - general contracting
 - design/build
 - construction manager at risk

- planning framework**
 - the project was included in the FY 2018 Capital Investment Plan for professional services; the FY 2020 Capital Investment Plan will be amended to include additional design and enabling construction work

- project scope**
 - this project will design and construct new inpatient hospital tower with up to 840 private-room beds, replacing and expanding on the 440 beds in Rhodes Hall and Doan Hall
 - state-of-the-art diagnostic, treatment and inpatient service areas including emergency department, imaging, operating rooms, critical care and medical/surgical beds
 - leading-edge digital technologies to advance patient care and teaching
 - early enabling work includes investigative surveys and construction planning and coordination

- approval requested**
 - approval is requested to increase professional services contracts through the Construction Document phase and increase construction contracts for enabling work
 - approval is requested to amend the Capital Investment Plan



- project team**

| | |
|-----------------------------|--------------------------------|
| University project manager: | Kristin Poldemann |
| AE/design architect: | Henningson Durham & Richardson |
| CM at Risk: | Walsh-Turner (joint venture) |

Project Data Sheet for Board of Trustees Approval

WMC West Campus Ambulatory Facilities

OSU-180390 (CNI# 13000189, 18000175, 18000156)

Project Location: Kenny Road and Carmack Road

- approval requested and amount**
 professional services (garage/site CDs) \$2.5M
 construction w/contingency (garage) \$17.7M

- project budget**
 professional services TBD
 construction w/contingency TBD

 total project budget TBD

- project funding**
 university debt
 fundraising
 university funds
 auxiliary funds (health system)
 state funds

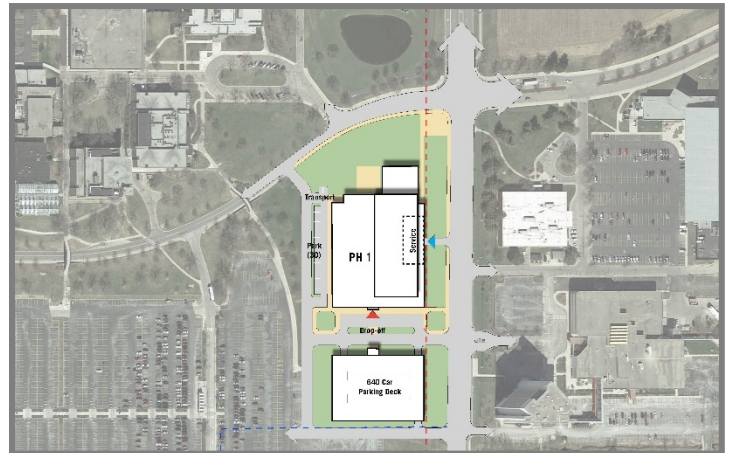
- project schedule**
 BoT professional services approval 11/18
 BoT construction approval – garage 11/19
 design/bidding 12/18 – 5/20
 construction 5/20 – 12/22
 facility opening – garage 2022
 facility opening – ambulatory 2022
 facility opening – proton 2023

- project delivery method**
 general contracting
 design/build
 construction manager at risk

- planning framework**
 - o consistent with the university and Wexner Medical Center strategic plans
 - o the project is included in the FY 2019 and FY 2020 Capital Investment Plans

- project scope**
 - o the project will construct a cancer-focused ambulatory facility including a surgical center, proton therapy, and medical office space of approximately 400,000 sf
 - o the proton therapy facility will focus on cutting edge cancer treatments
 - o facilities will include outpatient operating rooms, an endoscopy unit, an urgent care, a pre-anesthesia center, an outpatient diagnostic imaging center, and patient and building support spaces
 - o the project will also include a 640-space parking garage

- approval requested**
 - o approval is requested to increase professional services for early site work and to complete the design of the garage and to increase construction contracts for the construction of the garage and early abatement



- project team**
 University project manager: Mitch Dollery
 AE/design architect: Perkins & Will
 CM at Risk: BoldtLinbeck (joint venture)

APPROVAL TO ENTER INTO A JOINT USE AGREEMENT

**BETWEEN THE OHIO STATE UNIVERSITY AND
CANINE COMPANIONS FOR INDEPENDENCE**

Synopsis: Authorization to enter into a Joint Use Agreement (JUA) with Canine Companions for Independence (“Canine Companions”), an Ohio nonprofit agency, to document the value and permit the release of funds appropriated in the State Capital Bill to construct a new campus and training facility, is proposed.

WHEREAS The Ohio State University was allocated \$750,000 in the 2019 State Capital Bill specifically designated for use by Canine Companions; and

WHEREAS Canine Companions will utilize the funds for construction costs related to the creation of the Canine Companions North Central Region’s new campus and training facility; and

WHEREAS Canine Companions will make the facilities available for use by the university as detailed in the JUA; and

WHEREAS the terms and conditions for this university use shall be more favorable than the terms and conditions of use by any other entity to a degree that reasonably reflects the magnitude of the university’s investment in the new equipment for the term of the agreement; and

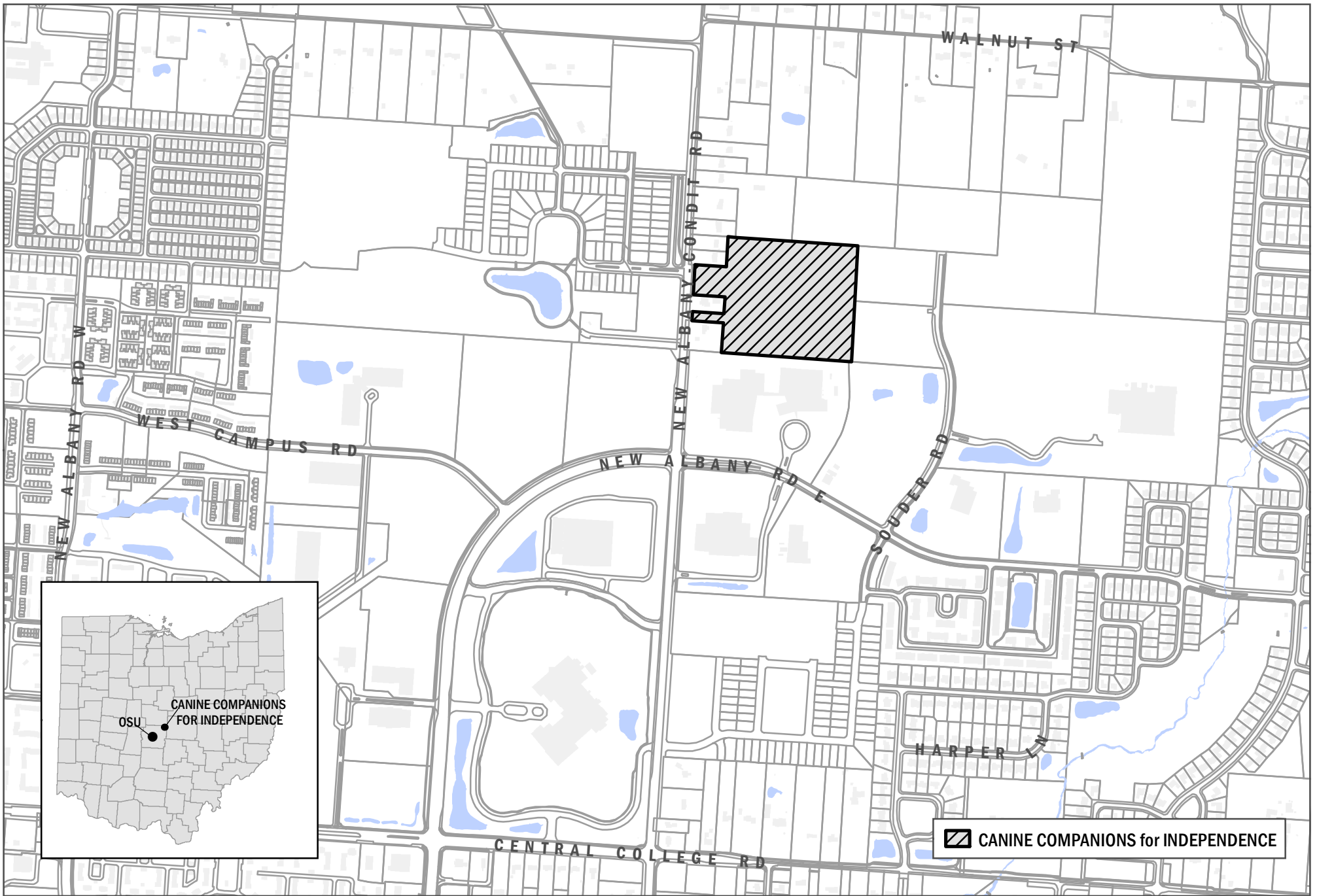
WHEREAS except for the funds used to cover the university’s reasonable administrative costs related to the project, the funds provided under this JUA shall be used by Canine Companions only for capital improvements or purchases and shall not be used for operating expenses; and

WHEREAS the university’s use of the Canine Companions campus will promote the university’s mission to advance the well-being of the people of Ohio and the global community through the creation and dissemination of knowledge; and

WHEREAS before the state capital appropriation may be released to Canine Companions, the Ohio Department of Higher Education requires that a JUA between the university and Canine Companions be signed to document the value of the appropriation to Ohio State and to ensure the benefits to the university will continue for a minimum period of 20 years:

NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby approves that the president and/or senior vice president for business and finance and/or senior vice president for administration and planning be authorized to take any action required to effect this Joint Use Agreement containing terms and conditions deemed to be in the best interest of the university.



 CANINE COMPANIONS for INDEPENDENCE

**JOINT USE AGREEMENT BETWEEN
 THE OHIO STATE UNIVERSITY AND CANINE COMPANIONS FOR INDEPENDENCE
 7480 NEW ALBANY-CONDIT ROAD
 NEW ALBANY, OHIO 43054**

Prepared By: The Ohio State University
 Office of Planning, Architecture, and Real Estate
 Issue Date: November 5, 2019
 The Ohio State University Board of Trustees

APPROVAL FOR ACQUISITION OF REAL PROPERTY

LOCATED AT 1619 HIGHLAND STREET, COLUMBUS, FRANKLIN COUNTY, OHIO
PARCEL 010-038978-00

Synopsis: Authorization to purchase real property located at 1619 Highland Street, Columbus, Franklin County, Ohio, is proposed.

WHEREAS the Ohio State University seeks to purchase improved real property located at 1619 Highland Street, Columbus, Ohio, identified as Franklin County parcel 010-038978-00; and

WHEREAS the property is currently zoned as a C4 commercial property and consists of a two-story multi-family apartment building; and

WHEREAS this is a strategic acquisition and supports the plan contemplated in Framework 2.0; and

WHEREAS all costs associated with the acquisition of the property will be provided by the Planning, Architecture and Real Estate's Land Purchase Reserve Fund, and all costs associated with maintenance, repairs and any improvements will be provided by the Office of Planning, Architecture and Real Estate:

NOW THEREFORE

BE IT RESOLVED, That Board of Trustees hereby approves that the President and/or Senior Vice President for Business and Finance be authorized to take action required to effect the purchase of the referenced property in the name of the state of Ohio for the use and benefit of The Ohio State University, at a purchase price of \$950,000, and upon terms and conditions deemed to be in the best interest of the university.

**APPROVAL FOR ACQUISITION OF REAL PROPERTY
1619 HIGHLAND STREET
COLUMBUS, FRANKLIN COUNTY, OHIO
BACKGROUND**

Background

The Ohio State University seeks to acquire from 1619 Highland, LLC, approximately 0.14 acres of improved real property to support the future development of the site contemplated in Framework 2.0. The improvements include a two-story multi-family apartment building comprised of approximately 4,155 square feet (collectively, the “Property”), and is the last parcel needed to assemble an entire block.

Location and Description

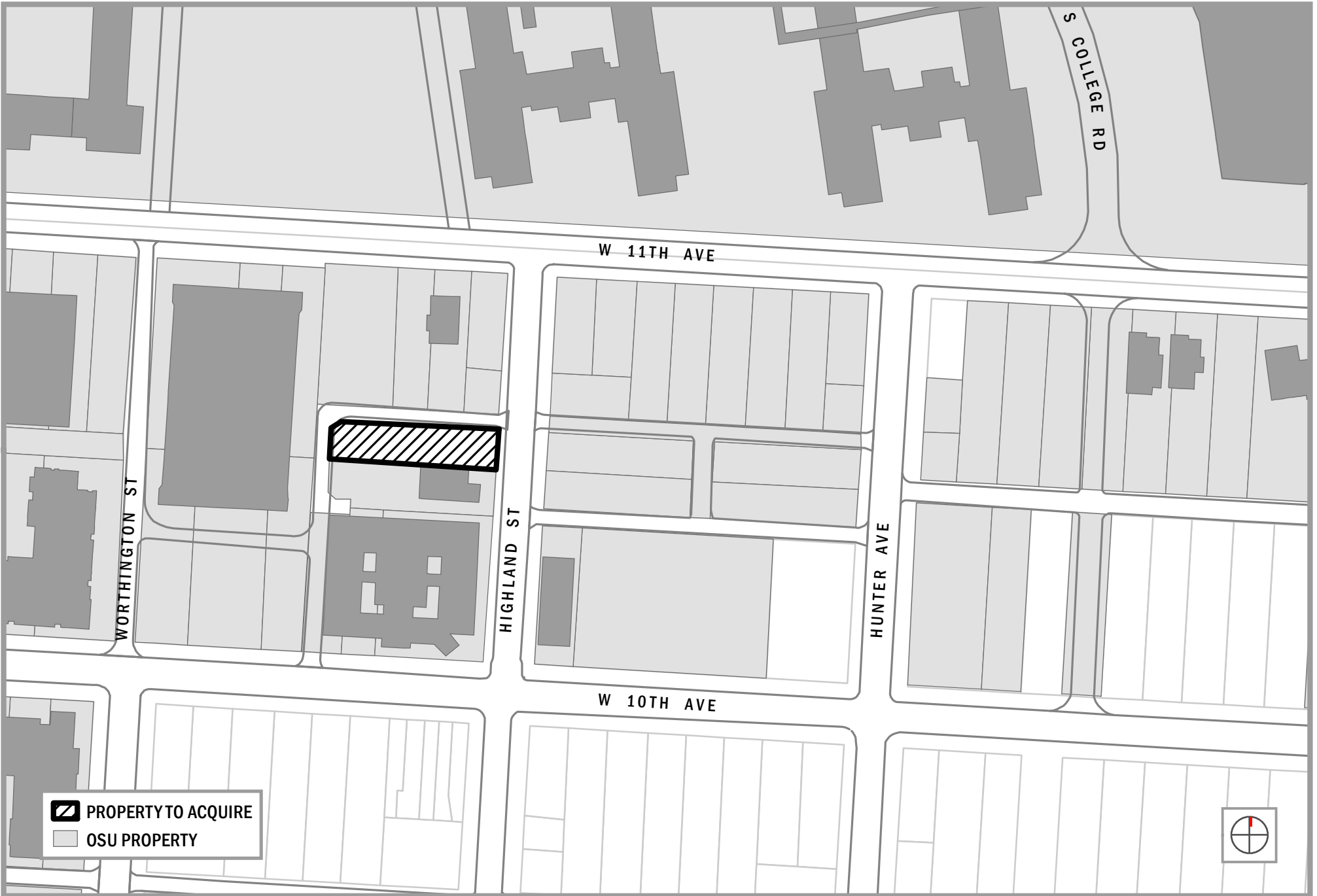
The Property is located at 1619 Highland Street. The apartment building is comprised of eight one-bedroom units, all occupied by residential tenants. The site is zoned as a C4 commercial property.

Property History

The property is titled to 1619 Highland, LLC and will be acquired in the name of the state of Ohio for the use and benefit of The Ohio State University. Acquisition will require approval of the State Controlling Board.

Acquisition of Property

Planning, Architecture and Real Estate (PARE) recommends that the 0.14± acres of improved real property be acquired for a purchase price of \$950,000 and under other terms and conditions to be negotiated in the best interest of the university. The source of funding for the acquisition is PARE’s land purchase reserve fund. PARE will operate the property with the goal of replenishing the land purchase reserve prior to redevelopment.



 PROPERTY TO ACQUIRE
 OSU PROPERTY



PURCHASE OF REAL PROPERTY
PARCEL ID: 010-038978
1619 HIGHLAND STREET
COLUMBUS, FRANKLIN COUNTY, OHIO 43201

Prepared By: The Ohio State University
 Office of Planning, Architecture, and Real Estate
 Issue Date: October 2, 2019
 The Ohio State University Board of Trustees

APPROVAL FOR THE ACQUISITION OF REAL PROPERTY

**915 OLENTANGY RIVER ROAD
COLUMBUS, FRANKLIN COUNTY, OHIO**

Synopsis: Authorization to purchase real property located at 915 Olentangy River Road, Columbus, Franklin County, Ohio, is proposed.

WHEREAS The Ohio State University ("University") seeks to purchase improved real property located at 915 Olentangy River Road, Columbus, Ohio, identified as Franklin County parcel 010-280575 ("Property"); and

WHEREAS the property is strategically located 1.6 miles from the university's main campus; and

WHEREAS the property includes a five-story 137,529+ square foot building, known as the OSU Eye and Ear Institute, which houses multi-specialty medical groups and an ambulatory outpatient surgery center; and

WHEREAS this property is highly visible, well-located and supports the Wexner Medical Center's ambulatory care strategic plan and its mission to improve health in Ohio and across the world through innovation in research, education and patient care; and

WHEREAS the university currently leases the entire property under a long-term lease, approved by the Board of Trustees in 2009 by Resolution 2009-33 ("Lease"); and

WHEREAS the lease provides the university with an option to purchase the property ("Option"); and

WHEREAS the university exercised the option to purchase the property on December 20, 2018 ("Exercise Date"); and

WHEREAS the obligation of the university to purchase the property after exercising the option is subject to and conditioned upon (a) approval of its Board of Trustees and the State of Ohio Controlling Board, and (b) the university's receipt and acceptance of two appraisals supporting the purchase price for the property prior to December 31, 2019:

NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby approves that the President and/or Senior Vice President for Business and Finance be authorized to take action required to effect the purchase of the referenced property at a price of \$43,000,000, in the name of the state of Ohio for the use and benefit of The Ohio State University Wexner Medical Center and upon terms and conditions deemed to be in the best interest of the university.

**APPROVAL FOR ACQUISITION OF REAL PROPERTY
915 OLENTANGY RIVER ROAD
COLUMBUS, FRANKLIN COUNTY, OHIO
BOARD BACKGROUND**

Background

The Ohio State University's Wexner Medical Center (WMC) seeks to acquire approximately 7.489 acres of improved real property located at 915 Olentangy River Road (Property) from Gowdy Partners II, LLC (Owner). The Property is improved with a five-story, 137,529± square foot medical office building (MOB) with adjacent parking, which WMC operates as its OSU Eye and Ear Institute (Institute). The Property is highly visible and well located and is home to a variety of healthcare services critical to WMC to meet the objectives of its ambulatory care strategic plan and its mission to improve health in Ohio and across the world through innovation in research, education and patient care.

WMC currently occupies the entire Property pursuant to a long-term lease the OSU Board of Trustees approved at its September 19, 2008 meeting through Resolution No. 2009-33 (Lease). The Lease provides the university with an option to purchase the Property. The university exercised the option to purchase the Property on December 20, 2018.

The obligation of the university to purchase the Property after exercising the option is subject to and conditioned upon (a) approval of its Board of Trustees and the State of Ohio Controlling Board and (b) the university's receipt and acceptance to two appraisals supporting the purchase price for the Property. Satisfaction of these conditions must occur by December 31, 2019.

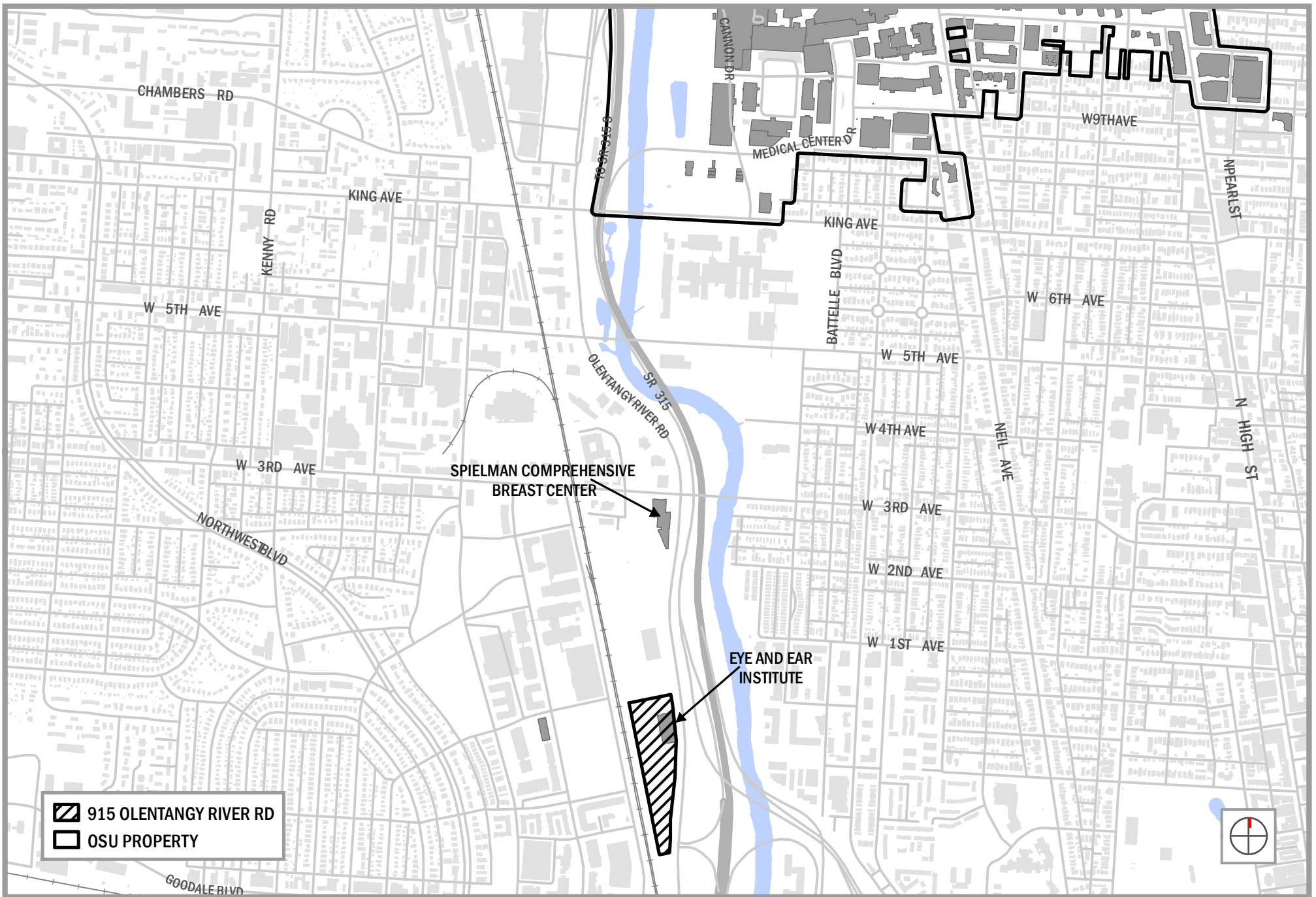
Location and Description

The parcel to be acquired, identified as county parcel 010-280575, is zoned CPD (Commercial Planned Development) and is part of a larger tract of land, commonly known as Gowdy Field. The Property is located at the southwest portion of the Gowdy Field land parcel that parallels State Route 315 and is located 1.6 miles from The Ohio State University (OSU) Columbus campus. The Institute includes multi-specialty medical groups, an ambulatory out-patient surgery center.

OSU Stefanie Spielman Comprehensive Breast Center, a four-story, 114,900 square foot, medical office building, which is fully leased by OSU, is also located at Gowdy Field.

Purchase of Property

WMC recommends that the university purchase the Property for \$43,000,000 on terms and conditions set forth in the purchase option and that are in the best interest of the university. The Wexner Medical Center will provide the source of funding for the acquisition.



**PURCHASE OF 7.849 ACRES OF REAL PROPERTY
915 OLENTANGY RIVER ROAD
PARCEL 010-280575
COLUMBUS, FRANKLIN COUNTY, OHIO 43212**

Prepared By: The Ohio State University
Office of Planning, Architecture, and Real Estate
Issue Date: July 22, 2019
The Ohio State University Board of Trustees