CONSTRUCTION PLANNING AND PROGRESS MEETING
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September 2018

Twitter hashtag #msuconstruction
PLEASE LET US KNOW HOW WE’RE DOING

- We want your thoughts and suggestions about the online version of Construction Junction, and what we might do to improve.

- Please leave any comments or suggestions in the feedback box on the Construction Junction webpage located at: http://ipf.msu.edu/construction/construction-junction/index.html.
New projects:

- Old College Field – Secchia Stadium and McLane Stadium – install field lighting.
- Pathological incinerator – storage – construct original building.
- Swine Teaching and Research – addition 1 (west end).
Project updates:

- Wilson Road extension.
- Interdisciplinary Science and Technology – construct original building.
- Business College Complex – Addition No. 2 – Pavilion.
- Strategic academic development – STEM teaching, learning and interdisciplinary research facilities.
- Cook Hall – building renovation.
- Jenison Field House – renovations.
- Demonstration Hall – alterations to multi-use court floor.
- Food Science – Fruit and Vegetable Lab renovation.
- Water distribution – campus water system improvements.
- Music Building – Addition No. 3.
- Student Services – replace windows and curtain wall.
- Wharton Center - Cobb Great Hall and Pasant Theatre seat replacement.
Step 2: Authorization to proceed:

- T.B. Simon Power Plant – install reverse osmosis system.
- Planetarium – addition.
- Hubbard Hall – exterior masonry restoration and window replacement – phase four.
- Old College Field – Secchia Stadium and McLane Stadium – install field lighting.
- Swine Teaching and Research – expansion.
- Strategic academic development – STEM teaching, learning and interdisciplinary research facilities.
Step 2: Authorization to proceed:

- Wonders Hall – teaching, learning and student support.
- Cowles House – elevator and interior renovations.
- Eppley Building – energy conservation measures.
- Veterinary Medical Center – A-wing – alterations to second-floor locker room.

Step 3: Bid and contract award:

- Planetarium – addition.
Old College Field – Secchia Stadium and McLane Stadium – install field lighting (CP18069)
Background:

• MSU is the only Big Ten school without field lighting at its softball and baseball stadiums.
• Installation of the field lighting component will complete the sports complex's master plan.
• The lighting system will improve scheduling of games around weather challenges and TV broadcast availability.
Project scope:

- Installation of new LED field lighting at Secchia Stadium (softball) and McLane Stadium (baseball).
- The lighting system will provide 100 foot-candles in the infield, and 70 foot-candles in the outfield at both stadiums.
- Minimal lighting controls for the field lighting system will be provided at the complex’s existing central location.
- The use of LED lighting fixtures will result in a 50-percent energy savings when compared to a traditional field lighting fixture.
Impacts:

• Construction will occur in the sports off season, so there will be no impacts to the complex.

Schedule:

• Construction start: TBD.
• Ready for use: TBD.
Old College Field site
Old College Field – Secchia Stadium and McLane Stadium – install field lighting (CP18069)

Example of similar lights at Old College Field – DeMartin Stadium (soccer)
Old College Field – Secchia Stadium and McLane Stadium – install field lighting

Project manager:
Tressa Wahl
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(517) 884-2185
Background:

- The NCAA has increased the number of coaches a football program may have on staff, spurring interest in adding more space, as well as refreshing existing amenities.
- In addition, the technology in the Demmer Family Hall of History, located on the first floor of the Skandalaris Football Center, is somewhat out of date and would benefit from an update.
Project scope:

• The project is anticipated to include:
  • Capturing underutilized patio space and reconfiguring existing space to accommodate a large conference room surrounded by offense/defense meeting rooms.
  • Construction of an all-staff work room.
• The existing offices will also undergo an aesthetic refresh including easily updated graphics, digital displays, and new finishes.
• The renovated Hall of History will boast large monitors on the east and south walls as well as vertically oriented ribbons of display on the elevator shaft. The ribbon displays will step up with the existing staircase and broadcast recruiting graphics. The new monitors will be visible from Perles Plaza, transforming the Hall of History into a beacon at night.
Impacts:

• Sidewalk closure along the east side of Chestnut Road between Wilson Road and Shaw Lane.

Schedule:

• Construction start: TBD.
• Ready for use: TBD.
Proposed floor plan
Proposed exterior view
Proposed exterior view
Proposed entry space
Proposed Hall of History space
Proposed Hall of History space

[Images of proposed Hall of History space]
Duffy Daugherty – S.A.A.C. – alterations to Skandalaris Football offices and Hall of History (CP18074)

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Project manager:
Jason Van Zee
vanzeeja@msu.edu
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Duffy Daugherty - S.A.A.C. - alterations to Skandalaris Football offices and the Demmer Family Hall of History

Project phase: Planning/Design

Project background
- The NCAA has increased the number of coaches a football program may have on staff, spurring interest in adding more space, as well as refreshing existing amenities.
- In addition, the technology in the Demmer Family Hall of History, located on the first floor of the Skandalaris Football Center, is somewhat out of date and would benefit from an update.

Project scope
- As planning begins, the project is anticipated to include:
  - Capturing underutilized patio space and reconfiguring existing space to accommodate a large conference room surrounded...
Pathological Incinerator – storage – construct original building (CP18095)
Background:

• Additional storage space is required to manage the containerized materials readied for incineration, including additional secured space for equipment and related transport vehicle storage.
Project scope:

- The project is anticipated to include construction of a new post frame building, approximately 24x30 square feet, immediately adjacent to the existing incinerator, and new concrete approaches for hard-surface access to the incinerator.
- The building will be insulated and lined with interior steel, have basic heat and electrical service, and provide card swipe security.
Impacts:

- There are no significant detrimental impacts associated with this project.

Schedule:

- Construction start: Fall 2018.
- Ready for use: December 2018.
Location of proposed storage building
Pathological incinerator – storage – construct original building (CP18095)

Building plans
Project manager:
Ben Darling
darlin21@msu.edu
(517) 927-8238

Pathological incinerator – storage – construct original building (CP18095)

Pathological incinerator - storage - construct original building

Project phase: Planning/Design

Project background
- Additional storage space is required to manage the containerized materials needed for incineration, including additional secured space for equipment and related transport vehicle storage.

Project Scope
- As planning begins, the project is anticipated to include construction of a new post-frame building, approximately 24x30 square feet, immediately adjacent to the existing incinerator, and new concrete approaches for hard-surface access to the incinerator.
- The building will be insulated and lined with interior steel, have basic heat and electrical service, and provide card swipe security.
Swine Teaching and Research Center
Background:

- The Animal Industry Act requires pregnant female swine (sows) to have larger-sized pens by April 1, 2020.
- This change creates a significant need for research on group sow housing management under this production paradigm, which requires additional facilities at the MSU Swine Teaching and Research Center to maintain industry relevance.
Project scope:

- The project is anticipated to include construction of an addition to accommodate sow housing pens, including ventilation, feeding and manure handling operations; while maintaining animal/personnel movement within the contained facility.
Impacts:

- The impacts from this project are minimal and generally only affect the immediate facility and personnel.
- Traffic patterns for feed deliveries, animal handling and manure handling are being adjusted and improved.
- Increased space will increase utility and water demands, however conservation practices are being incorporated.

Schedule:

Location of proposed addition
Proposed floor plan
Project manager: Ben Darling
darlin21@msu.edu
(517) 927-8238

Project background
- The Animal Industry Act requires pregnant female swine (sows) to have larger-sized pens by April 1, 2020.
- This change creates a significant need for research on group sow housing management under this production paradigm, which requires additional facilities at the MSU Swine Teaching and Research Center to maintain industry relevance.

Project scope
- As planning begins, the project is anticipated to include construction of an addition to accommodate sow housing pens, including ventilation, feeding, and manure handling operations, while maintaining animal/personnel movement within the contained facility.
- It is anticipated that the planned improvements will alter the footprint.
Project location
Project milestones:

- Conrad Road is open, and traffic signals at the Shaw Lane / Conrad Road intersection are operational.
- Hubbard Hall drive loop and loading dock were reopen in time for student move-in.
- The curb opening for the new Wilson Road / Hagadorn Road intersection has been installed.
- Vehicle traffic to Fee Hall was shifted from Hagadorn Road to Wilson Road.
Impact updates:

- Around Sept. 15, the Hagadorn Road boulevard will close for construction, including the closure of the River Terrace pass-through.
- Residents and visitors to the River Terrace neighborhood will experience detours during the period from approximately Sept. 15 – Oct. 15 due to work in the median.
- Various pedestrian and vehicular detours will continue until Nov. 15, including lane closures on Hagadorn Road.
River Terrace detour

Wilson Road Extension
River Terrace Neighborhood
Road Construction Detours
Starting Approx. September 15
Ending Approx. October 15
Construction phasing (September 15 – November 15)
New Wilson Road entrance at Hagadorn Road – looking south
Installation of storm water infiltration pavers in the new Conrad Hall parking lot (Lot 112)
Completed traffic signals at Shaw Lane and Conrad Road
Wilson Road extension (CP11349)

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Project manager:
Dave Wilber
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(517) 884-2186
Project milestones:

- Science casework installation has begun.
- Finishes have begun.
- Site work adjacent to the building has begun.

Impact updates:

- Traffic on Service Road will continue to be heavy due to product delivery.
Second floor lab area being prepared for flooring installation
Installation of stairs to second floor
Wiring installation in fifth floor research lab
Preparing for flooring installation in the fourth floor research lab
Third floor research lab – temporary new flooring protection installed
Casework installation in the second floor research lab
Project webcam

https://app.oxblue.com/open/RockfordCon/InterdisciplinaryScience
Project manager:
Carol Cool
coolcaro@msu.edu
(517) 353-8619
Project milestones:

- Building envelope is complete (glass, brick and metal panels).
- Interior finish installation has begun.
- Walls priming/painting has commenced.

Impact updates:

- Sidewalks traveling north and south between Shaw Hall and Business College complex remain closed.
- Sidewalk north of Shaw Lane will be closed through summer.
North side – looking towards Shaw Lane
North side of Grand Atrium – looking towards river
Grand Atrium – looking towards Shaw Lane
Site logistics plan
Project webcam

https://app.oxblue.com/open/MSU/EliBroadPavilion
Construction representative:
Tony Rhodes
rhodesa1@msu.edu
(517) 432-7104
Strategic academic development – STEM teaching, learning and interdisciplinary research facilities (CP17133)
Project milestones:

- Window removal is complete.
- The temporary roof installation is complete.
- Interior demolition has begun.
- Groundbreaking ceremony was held on Aug. 31

Impact updates:

- Increased construction traffic around the Shaw Lane / Red Cedar Road intersection (in the vicinity of the old Shaw Lane Power Plant)
- Scheduled utility shutdowns that may affect other facilities in the area
- Temporary traffic and pedestrian detours typical of a project of this magnitude
Strategic academic development – STEM teaching, learning and interdisciplinary research facilities (CP17133)

View from Wells Hall – temporary roofing application in progress
Existing windows have been removed
Masonry cleaning and restoration
Project manager:
Ken Gottschalk
gottsc20@msu.edu
(517) 353-7234
Project milestones:

• Basement plaster work complete.
• Addition framing complete.
• Drywall in existing building complete.
• New mechanical equipment in place.

Impact updates:

• Continuation of construction zone inaccessibility and pedestrian detours.
Progress on new addition
Cook Hall – building renovation (CP16285)

Framing complete – awaiting pitched roof installation
Egress stair tower framing complete
New transformer connected
Patching of existing plaster on second floor complete.
Project manager:
Amr Abdel-Azim
abdelazi@msu.edu
(517) 432-0323

Cook Hall - building renovation
Project phase: Construction

Project background
- Built in 1889, Cook Hall was named for Albert J. Cook in 1889. Albert J. Cook was one of the leading economic entomologists in the United States and served as the first curator of the MSU Museum. He graduated from Michigan State College in 1887 and led the zoology and entomology programs pioneered by his mentor, Manly Miles.
- Cook Hall is one of six buildings constructed between 1888 and 1899 and is part of what is referred to as "Laboratory Row" on the northeast section of West Circle Drive. Laboratory Row is on the State Register of Historical Sites, and the renovations to Cook Hall are part of the plan to restore these buildings over time to preserve the University's heritage.
- The University completed exterior renovations to the building in 2010, but has not made significant updates to its interior and the building.
- Also, the building is not accessible.
Project milestones:

- Phase one (north side) will conclude the week of Sept. 4.
- New pool observation area is complete.
- Demolition has begun on the south side second floor (phase two)

Impact updates:

- Access to the north half of the second and third floors is limited.
New conference room within coaches’ suite
New conference room 220A
New pool observation area.
Project manager:
Matt Postma
postmama@msu.edu
(517) 353-9223
IM Sports – West – replacement of indoor turf surface in room 161 (CP17167)

IM Sports - West
Project milestones:

- Project was substantially completed on Aug. 17.

Impact updates:

- No additional impacts are expected.
Existing condition prior to start of construction
New turf grass, sport striping, LED lighting, additional exterior egress doors and overhead doors installed
Roller partition in down position
New exterior egress doors
Project manager: Scott Gardner
gardne21@msu.edu
(517) 432-0782
Demonstration Hall – alterations to multi-use court floor (CP17166)
Project milestones:

• Project was substantially completed on Aug. 17.

Impact updates:

• No additional impacts are expected.
Condition prior to start of construction
New arena area
Demonstration Hall – alterations to multi-use court floor (CP17166)

New arena area
New multipurpose floor system for adaptive sports (wheelchair hockey and rugby), indoor soccer and roller hockey
New LED lighting and circulation fans installed
Renovated restrooms

Renovated east entrance hallway.
Project manager:
Scott Gardner
gardne21@msu.edu
(517) 432-0782
IM Sports – East – gym and track renovations (Healthy Campus Initiative) (CP17168)
Project milestones:

• Project was substantially completed on Aug. 17.

Impact updates:

• No additional impacts are expected.
Conditions prior to the start of construction
New gymnasium floor, running track and LED lighting
New gymnasium floor, running track and LED lighting
New running track surface and handrail system
New running track handrail system
Project manager: Scott Gardner
gardne21@msu.edu
(517) 432-0782
Project milestones:

• Analytical lab is complete and ready for use.
• Three steam kettles units and a lye peeler have been installed in the second floor lab.
• Revised pricing has been received from our contractors; completing selected buyouts for new construction in the pilot plant.
• New floor drain installed in second floor lab, to test for correct drainage, as it will impact the new plant.
• Work has begun in the third floor mechanical room and mechanical shaft.

Impact updates:

• General construction noise from demolition will continue.
• Vivarium demolition will require vacancy of space.
Analytical lab
New doorway to analytical lab.
Completed epoxy flooring.
Previous location of retorts that were removed to accommodate new equipment washing area.
New floor drain installed in second floor lab to test for proper drainage. Note water stains from prior leakage.
New steam kettles in the second floor lab, which will be moved to the new plant after fall semester is over.
Project manager:
Bryan Anderson
ande1101@msu.edu
(517) 432-0583
Project location
Project milestones:

• The piling foundations for the water tower are complete. Each of the 114 pilings is two feet in diameter, and extend to a depth of approximately 60 feet.

Impact updates:

• Modifications to the water mains that will connect the treatment plant and tower to the campus system will commence in September and conclude in October.
• Information regarding the impact to vehicular and pedestrian traffic will be provided when available.
Installation of piling foundation for water tower
Water distribution – campus water system improvements  (CP16086)

Project webcam

https://app.oxblue.com/open/MSU/watertreatment
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Project manager:
Robert Nestle
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(517) 355-3372
Music Building – Addition No. 3 (CP17077)
Project milestones:

- Preliminary site utilities are complete.
- Interior demolition underway, with structural demolition of Hart Recital Hall to begin the week of Sept. 3.
- Mass excavation of the site to commence approximately three weeks later.

Impact updates:

- Pedestrian travel has been restored diagonally through the site.
- Noise impacts due to demolition are expected throughout the month of September.
Excavated area along west building facade
North side of Hart Recital Hall showing areas of brick and slate removal for re-use
South side of Hart Recital Hall showing site utility installation
Project manager:
Todd Wilson
tdwilson@ipf.msu.edu
(517) 432-4355
Project milestones:

• Phase one of the window replacement is substantially complete.
• HVAC replacement will begin in October.

Impact updates:

• No impacts expected in the coming month.
Before
After

Student Services – replace windows and curtain wall (CP16194)
Construction representative: Carol Cool
coolcaro@msu.edu
(517) 353-8619
Project milestones:

- Pasant Theatre re-furbished handrail is currently being installed.
- Great Hall seats have been removed, and new seats are being installed.
- Epoxy flooring installation is complete in the Great Hall.
- First floor men’s bathroom renovations are in progress.

Impact updates:

- No additional impacts expected.
Great Hall seat removal
Great Hall seat removal
First floor men’s restroom renovation in progress
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Project manager: Jessica Kolp
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(517) 908-7746
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Construction Junctions continue monthly

Presentations will be available on the Construction Junction website around the seventh of each month.

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