PLEASE LET US KNOW HOW WE’RE DOING

• We want your thoughts and suggestions about how you feel about this new 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.

• Thank you in advance!
MSU Board of Trustees updates

FRIB Open House

New projects
• IM Sports-West – replace pool and locker room HVAC systems

Project updates
• 1855 Place
• Breslin Student Events Center - facility upgrades
• T.B. Simon Power Plant - upgrade utility substation
• Engineering Building – alterations to suite 1515
• Commuter Parking Lot 89 - reconstruct southeast section
• Sheep Barn - addition 2 - Sheep Lambing and Research Facility
• Music Practice Building - replace windows
Step 2: Authorization to proceed

- Data Center

Step 3: Bid and contract award

- Food Processing and Innovation Center
Step 2: Authorization to proceed

- IM Sports West – replace pool and locker room HVAC systems
- Hubbard Hall – exterior masonry repair and window replacement – phase two
PUBLIC OPEN HOUSE
RARE ACCESS
Behind the scenes at the Facility for Rare Isotope Beams & National Superconducting Cyclotron Laboratory at Michigan State University

AUGUST 20, 2016
1 - 4 p.m. (last tours start at 4 p.m.)
640 South Shaw Lane, East Lansing

- Tours of FRIB & NSCL
- Demonstrations
- Presentations
- Free admission & parking

frrib.msu.edu/openhouse2016
IM Sports West – replace pool and locker room HVAC systems (CP15250)
Why?

- The heating and ventilating (HVAC) equipment serving the natatorium and locker room is deteriorating and is in need of replacement.
- Many of the units are non-operational and the equipment serving the pool does not provide any dehumidification to control the space relative humidity levels.
Program scope

- Replace the existing HVAC equipment with energy efficient systems that will provide code required ventilation to each space and maintain proper indoor temperature and relative humidity conditions in the natatorium.
- Replace ductwork serving indoor pool and locker rooms.
- Reinforce structure.
- Upgrade electrical system as needed for new equipment.
- Infill openings between natatorium and adjacent locker rooms/mechanical spaces.
- Maintain the pool at a slight negative pressure to adjacent spaces to separate pool environment from adjacent spaces and prevent further corrosion of locker rooms.
Program scope (cont.)

- Remove ceiling cloud and upgrade lights in associated areas
- Replace manual pool temperature system with automatic pool water control system
- Extend fire protection system to renovated areas
- Replace and upgrade fire alarm as required in renovated areas

Schedule

- Construction start: May 2017
- Project completion: September 2017
IM Sports West – replace pool and locker room HVAC systems (CP15250)

Floor plan – only minor changes to floor plan
First floor HVAC zone plan

HV 2
HV 9
HV 10
HV 11
HV 18
HV 20
HV 24
HV 26
HVAC 27

HV 2
HV 3
HV 4
HV 5
HV 10
HV 12
HV 15
HV 16
HV 21
HV 23
HV 24
HVAC 27
Indoor pool
Existing ceiling above pool
Ductwork above pool ceiling
Example of equipment to be replaced
Design Representative:
Sue Hopper
shopper@ipf.msu.edu
(517) 353-3222
Why?

• Create a living environment that supports both single students and student families around the resources they need to be academically successful

• Create an institutional asset to further our world class land-grant mission

• Consolidate office spaces from across campus, freeing up space for academic programs while saving resources and improving communication

• Create synergies between Residential and Hospitality Services and Intercollegiate Athletics
Project scope

• 102,000 square foot mixed use office building (LEED Silver)
  o RHS offices
  o Intercollegiate Athletics offices
  o Retail
• 438,000 square foot student apartments
  o Single student apartments (Studio, 2BR, 4BR)
  o Family housing apartments (1BR, 2BR)
• Parking (2,075 spaces)
  o Deck
  o Student (apartments)
  o Event\staff
• Funding Source – auxiliary funds
  o RHS
  o Intercollegiate Athletics
  o Parking
Timeline

- Construction start: Summer 2015
- Ready for occupancy: Summer 2017
Site selection and existing conditions

- **University Village**: To Remain
- **Police Pole Barn**: To Be Replaced
- **State Police Bldg.**: To Be Demolished
- **Event Parking**: To Be Relocated on Site
1855 Place (CP13351)
August 2016

Phase one site phasing plan – September 2015
Preliminary site phasing plan – phase two
1855 Place – address and building name assignments

- 1855 Place: 1855 Place - Building 1806
  478 Ivy Ct
  East Lansing MI 48823

- 1855 Place: 1855 Place - Building 1805
  479 Ivy Ct
  East Lansing MI 48823

- 1855 Place: 1855 Place - Building 1804
  507 Ivy Ct
  East Lansing MI 48823

- 1855 Place: 1855 Place - Building 1803
  533 Ivy Ct
  East Lansing MI 48823

- 1855 Place: Building 1801
  500 S Harrison Rd
  East Lansing MI 48823

- Breslin Student Events Center Sign
  400 S Harrison Rd
  East Lansing MI 48824

- Communication Storage University Village
  1159 Pine Tree Ct
  East Lansing MI 48823
  (formerly 1166 Garden City Rd)

- Parking Ramp No. 7
  670 S Harrison Rd
  East Lansing MI 48823

- Parking Booth Lot 63
  675 S Harrison Rd
  East Lansing MI 48824
  (formerly 721 S Harrison Rd)
Office\mixed-use building – view from southeast
View of mixed-use building from Harrison and Kalamazoo
Structural steel work on office/mixed-use towers
Exterior progress on single student units
Exterior progress on single student units
Interior work on the family housing units continues
Interior work on the family housing units continues
Playground area construction is complete
Project webcam

http://oxblue.com/open/Walbridge/SpartanVillage
Project representative:
Andy Linebaugh
alinebau@ipf.msu.edu
(517) 432-7103
Why?

• To enhance the student, alumni, fan and public experience by improving the functionality of the Events Center
• Create a lasting legacy by integrating a sense of Spartan tradition throughout the facility
• Extend the useful life of the building by improving services to the fans and implementing major maintenance items
Project scope

• Phase one:
  o 22,000 square foot addition around building
  o Expand concourse
  o Renovate/upgrade restroom facilities, increase fixture count
  o Renovate concessions stands
  o Improve entry vestibules to main concourse
  o Improve finish levels and experience on concourse
  o Improve site conditions for ingress and egress
  o Improve site security
  o Replace chiller system
  o Connect to East Lansing water system

• Phase two:
  o 30,000 square foot addition
  o Create sense of main entry; destination to the building
  o Create a Basketball Hall of History
Timeline

- Construction start: January 2016
- Ready for occupancy: August 2017
Phases one and two – floor plan concourse scope outline
July 29 through Aug. 28 – phasing plan
Site improvements

1. Ramp location for Kalamazoo Street mid-block crossing
2. Satellite truck and ambulance parking area
3. Existing crosswalk location
4. New crosswalk to coordinate with new Special Housing Needs project
5. Concrete site wall, with planting bed
6. Regrade parking lot to meet ADA requirements
7. Drop-off zone
8. Proposed Hall of History Plaza
Phase one – gate entrance rendering
Phase two – exterior – Hall of History
Northeast addition
Site improvements - northeast
Site improvements - northwest
Terrazzo flooring in progress
Hall of History building foundations
Project webcam

http://oxblue.com/open/MSU/Breslin
Construction representative:
Jason Van Zee
jvanzee@ipf.msu.edu
(517) 432-2675
Why?

• To provide increased electrical power capacity and delivery reliability to FRIB, the T.B. Simon Power Plant and the MSU campus.

Project Scope

• The project consists of the three elements:
  o An underground 138 kV transmission line from the existing Michigan Electric Transmission Company transmission line to the T.B. Simon Power Plant.
  o Installation of a larger capacity substation, consisting of two 50 MVA transformers, at the T.B. Simon Power Plant with space for a future third transformer and connection to the new switch house installed to supply FRIB.
  o Installation of a substation along the Michigan Electric Transmission line.
Impact

• Limited duration road closures of Bennet and Forest Roads, and Pavilion Drive, April thru August 2016.
• Site restoration will be performed by the Infrastructure Planning and Facilities, Landscape Services department.
• Critical coordination of energizing the system between the T.B. Simon Power Plant and FRIB.

Schedule:

• Construction start: January 2016
• Power available: March 2017
Consumers Energy substation

138 kV underground transmission line

METC Electric Transmission line
Underground duct bank installation along College Road
Lifting the first 50MVA transformer into position at the Spartan Substation (Consumer’s Energy substation)
Foundation installations at the Green Substation (METC substation)
Construction representative:
Chris Barnes
cbarnes@ipf.msu.edu
(517) 355-1628
Engineering Building – alterations to suite 1515 (CP15022)
August 2016
Why?

• In order to support the teaching, learning and research efforts of the newly created Department of Computational Mathematics, Science and Engineering as well as the College of Engineering, creation of new functional offices in the Engineering Building is needed.
Project scope:

• Renovation of suite 1515, including creation of a second floor within the space to facilitate the program

• Creation of an office suite for the department chairperson and staff, including a workroom

• Twenty-five faculty offices, three visiting scholar shared offices, ten post doc workstations, one hundred twenty graduate assistant workstations and one academic specialist office

• Shared space to include conferencing areas, collaboration enclaves and study rooms
Impacts:

- Library will be permanently closed
- Study space relocated to another part of the building (east wing).
- Pedestrian access to courtyard from the south will be restricted throughout construction.
- Short duration crane lift activity to bring new equipment into the mechanical penthouse.

Schedule:

- Construction start: January 2016
- Ready for occupancy: August 2016
First floor graduate assistant space - looking southwest towards faculty offices
First floor collaboration spaces
Second floor graduate assistant space – looking east
Engineering Building – alterations to suite 1515 (CP15022)
August 2016

First floor departmental entrance

Second floor public corridor
Construction representative:
Todd Wilson
tdwilson@ipf.msu.edu
(517) 432-4355

Engineering Building – Alterations to Suite 1515

Project phase: Construction

In order to support the teaching, learning and research efforts of the newly created Department of Computational Mathematics, Science and Engineering as well as the College of Engineering, creation of new functional offices in the Engineering Building is needed.

Project details:
The project will require relocation of the engineering library collection to the main library. This will allow for creation of:

- Office suite for the department chairperson and staff, including a workroom
- Twenty-five faculty offices, three visiting scholar shared offices, ten post doc workstations, one hundred twenty graduate assistant workstations and one academic specialist office
- Shared space to include conferencing areas, collaboration enclaves and study rooms

The Engineering Building is located at the northeast corner of Red Cedar and Wilson Roads in the Central Academic District.

Timeline
- Start of construction: January 2016
- Ready for occupancy: July 2017

Questions, comments, concerns?

Construction representative
Todd Wilson, tdwilson@ipf.msu.edu, (517) 432-4355
Commuter Parking Lot 89 – reconstruct southeast section (CP15195)
August 2016

Parking Lot 89
Why?

• Reconstruct deteriorated parking bays and bus-loop road
• Re-establish the pavement condition ahead of the solar array project for a 20-year plus service life
• New lighting will be provided on underside of solar arrays (as part of solar project)

Timeframe

• Construction start: May 9
• Construction completion: July 29
Lot 89 – Commuter Lot (May 9 – June 30)
Southern section of Lot 89 looking southeast
Southwest section of Lot 89 looking west
Center road of bus loop looking east
Construction representative:
Kevin Durkin
kdurkin@ipf.msu.edu
(517) 432-2153
Why?

• New researcher and area of focus
• Reinvigorated programming
• Enhanced lambing facilities to improve research opportunities
• New direction for animal feeding and handling (industry)

Scope

• Demolition of existing “old” wing and construction of new
• Creation of lab and procedure space
• Enhancement of existing animal pen and feeding areas
Impacts

• Personnel space being added, along with parking/access
• Natural gas, septic and connectivity services
• Essentially becomes non-public visitation/viewing

Timeline

• Construction start: June 1
• Ready for occupancy: Sept. 1
Aerial view of current site showing proposed addition location
Site plan showing existing and proposed space

- Cold Barn -

Existing Natural Ventilation Barn 120 x 66

- Warm Barn -

New Insulated Lambing Barn 88 x 66

Curtain (76 x 12 opening, double curtain, roll down, top curtain board can drop), 4' of wire panel framed by 2'x6' along lower curtain opening
New lab and research floor plan

20’x24’ office and heated working space, 8’ tall ceiling
Demolition begins
Trusses set in place in new addition
Addition and renovation moving forward
Custom research feed bunks being formed
Initial framing in the office and work areas
Project representative:
Ben Darling
darlin21@msu.edu
(517) 927-8238
Music Practice Building – replace windows (CP15220)
August 2016
Why?

• The windows in Music Practice date to the building’s construction in 1968 and no longer provide adequate insulation or environmental protection
• Humidity fluctuations increase the stress and maintenance costs of instruments within the building, and impact the operations of the College of Music
• Replacement windows with efficient, thermally broken windows will support humidity levels for the building without excessive condensation
• Window surface finishes will also be restored
Impacts

• Existing loading dock parking area may be needed for temporary staging area during construction
• Possible temporary re-routing of pedestrian traffic during construction at adjacent sidewalk east of building

Timeline

• Construction start: May 9, 2016
• Construction completion: August 2016
Existing condition of Music Practice site
Music Practice Building – replace windows  (*CP15220*)
August 2016

Existing curtainwall windows – south elevation
New south-side curtain wall
West-side view
Music Practice Building – replace windows (CP15220)
August 2016

View from north side
Constitution representative:
Kevin Durkin
kdurkin@ipf.msu.edu
(517) 432-2153
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Construction Junctions continue monthly

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

Thank you for your interest, and we hope you’ll visit us again soon!