CONSTRUCTION PLANNING AND PROGRESS MEETING
BROUGHT TO YOU BY INFRASTRUCTURE PLANNING AND FACILITIES

September 2016

Twitter hashtag #msuconstruction
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

Project updates

• 1855 Place
• Breslin Student Events Center - facility upgrades
• Natural Science - alterations to rooms 137, 138 and 139
• Music – alterations to rooms 135, 141, 145, 206 and 245
• Facility for Rare Isotope Beams – building structure
• Cyclotron – addition 16 - office
• Giltner Hall – alterations to rooms 39, 40, 41, 65, 67, 344a and 363
Step 2: Authorization to proceed

- Data 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
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)**
  - RHS offices
  - Intercollegiate Athletics offices
  - Retail
- **438,000 square foot student apartments**
  - Single student apartments (Studio, 2BR, 4BR)
  - Family housing apartments (1BR, 2BR)
- **Parking (2,075 spaces)**
  - Deck
  - Student (apartments)
  - Event/staff
- **Funding Source – auxiliary funds**
  - RHS
  - Intercollegiate Athletics
  - 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
- **Scene Shop Pole Barn**: To Be Replaced
- **State Police Bldg.**: To Be Demolished
- **Event Parking**: To Be Relocated on Site
Site plan
Phase one site phasing plan – September 2015
Phase two site phasing plan – August 2016
1855 Place – address and building name assignments

- 1855 PLACE - BUILDING 1806
  478 IVY CT
  EAST LANSING MI 48823

- 1855 PLACE - BUILDING 1805
  479 IVY CT
  EAST LANSING MI 48823

- 1855 PLACE - BUILDING 1804
  507 IVY CT
  EAST LANSING MI 48823

- 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 PINETREE CT
  EAST LANSING MI 48823
  (formerly 1166 GARDEN CITY RD)

- 1855 PLACE - BUILDING 1808
  1270 GARDEN CITY RD
  EAST LANSING MI 48823

- 1855 PLACE - BUILDING 1809
  1290 GARDEN CITY RD
  EAST LANSING MI 48823

- 1855 PLACE - BUILDING 1810
  1230 GARDEN CITY RD
  EAST LANSING MI 48823

- PARKING RAMP NO. 7 - HARRISON RD
  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
Office/mixed-use tower
Steel work continues on office/mixed-use tower
View of new parking deck and surface lot from office tower site
View of student apartment unit construction from the office tower site
Exterior of one of the completed family housing units

Photo courtesy of Julia Nagy, Lansing State Journal
Interior views of a typical family housing unit apartment
Lounge area in one of the family housing units

Photo courtesy of Julia Nagy, Lansing State Journal
Project webcam

http://oxblue.com/open/Walbridge/SpartanVillage
CONSTRUCTION.MSU.EDU

Project representative:
Andy Linebaugh
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(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
Site improvements

Hall of History Site Plan

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
August 22 through November 30 – phasing plan
Northwest entrance – Kalamazoo Street
Northwest gate exterior – Kalamazoo Street
Northeast gate – expanded concourse area
Northeast addition – women’s restroom
Northeast addition – typical restroom sink wall
Phase two – exterior – Hall of History
Spartan Basketball All-Access: "Big Plans" (Episode 3)
Project webcam

http://oxblue.com/open/MSU/Breslin
Breslin Student Events Center – facility upgrades  (CP14110)
September 2016

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Construction representative:
Jason Van Zee
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(517) 432-2675

Breslin Student Events Center – Facility Upgrades

Project phase: Construction

The Jack Breslin Student Events Center opened in 1989. The building
hosts more than 100 events annually, including acting as the home to
MSU men's and women's basketball. In 2013, Residential and Hospitality
Services and Intercollegiate Athletics commissioned studies to examine
how to use the facility to its highest functional capacity as a major event
center for MSU. Specifically, studies examined current building
conditions, variances with current building codes, energy saving
opportunities and enhancing the patron experience at events.

Project details
- 26,000 square-foot addition around building concourse, renovation
  and improvements of restroom facilities, concession stands,
Natural Science - alterations to rooms 137, 138 and 139 (CP16002) September 2016
Why?

- Renovate two adjacent teaching labs that currently serve over 300 students from multiple College of Natural Science majors and programs.
- To modernize the curriculum of ZOL320: “Developmental Biology”.
- The renovation expands use of these rooms to as many as 600 students a year and supports the new PLS311 lab course: “Physiology for Pre-Health Professionals”.
- The renovation increases the room’s utilization by other courses and facilitate future course development.
Project scope

- Partial demolition
- Replace ceiling tile
- New casework
- New flooring
- Data drops at tables
- TV monitors and document camera
- Security door hardware
- Painting
Impacts:

• The labs below the work zone were impacted with work on plumbing lines in the ceiling.

Schedule:

• Construction start: June 6
• Ready for occupancy: Aug. 19
Demolition
Abatement of floor tile
Wall patching and new ductwork
New finishes

[Image: A room undergoing renovation with new finishes.]
New casework installation
Construction representative:
Carol Cool
ccool@ipf.msu.edu
(517) 353-8619
Music – Alterations to rooms 135, 141, 145, 206 and 245 (CP15273)
September 2016
Why?

- To update the teaching and learning environment
- To provide air conditioning to better control the environment
- The new doors provide better soundproofing.
- The renovations put these three classrooms on par with the others in the building.
Project scope

- Partial demolition
- New ceilings and floors
- New lighting
- Projection screens
- Marker boards
- Doors
- Painting
Impacts:

• The rooms were off line for the entirety of the summer

Schedule:

• Construction start: May 9
• Ready for occupancy: Aug. 19
Music – Alterations to rooms 135, 141, 145, 206 and 245 (CP15273)
September 2016

Demolition
Demolition completed – preparing for plaster skim coat

Music – Alterations to rooms 135, 141, 145, 206 and 245 (CP15273)

September 2016
Installation of audio equipment and termination of wiring
Music – Alterations to rooms 135, 141, 145, 206 and 245  (CP15273)

September 2016

Spaces ready for furniture installation
Music – Alterations to rooms 135, 141, 145, 206 and 245 (CP15273)  
September 2016

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Carol Cool  
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(517) 353-8619
FRIB location

Project site
FRIB traffic and pedestrian routing during construction

Present to June 2018

- Restripe and turn over one west-bound and two east-bound lanes
  - Site fence moved south
  - Bike path open

July 2018

- All four lanes of Wilson Road will be re-opened
Rendered perspective – southwest view
Rendered perspective – southeast view
Rendered perspective – northeast view
Building layout
FRIB construction progress
Working ahead of baseline schedule

- Vertical transfer lines installed
- Generators placed on north elevation
- Framing and metal panel installation continues on west side of building
- Continuing installation of warm side piping in the compressor room
- Hot cell robotic crane rail installation continues
- Paving north and south side of site
- Cable tray is 67.4% complete, and non-conventional utilities are 74% complete
- Vertical cold box installed with cat walk

Cold box installation
Catwalk set on vertical cold box
FRIB construction progress

Generator installation on the north side of the building
FRIB construction progress

Metal panel installation on southwest corner of building
FRIB construction progress

View of the transfer line in the LINAC tunnel looking east
Project Representative:
Brad Bull
bull@frib.msu.edu
(517) 908-7751

Additional Information:
www.frib.msu.edu
Why?

• To expand the office portion of the facility to accommodate the new staff, faculty, and students that are being hired in support of the FRIB project

Scope

• The project consisted of the following elements:
  o Partial demolition of the existing Cyclotron
  o Build out of electrical and mechanical systems
  o New six-story office addition, approximately 74,000 square feet
  o First floor features, 265 seat auditorium
  o Floors two thru six consist of perimeter office, with open space in center areas
• Typical office floor plan, floors 2 through 6
• Private offices around the north/south perimeter
• Cubicles/bench seating in middle
Construction update

• Construction start: February 2015
• Substantial completion: Aug. 1
• Furniture installation complete: Aug. 12
• Occupation of the phase three building: Aug. 29
• Completion of punch list items: Ongoing
Aerial view of site showing location of new office addition

September 2016

Cyclotron – addition 16 – office (CP14148)

April 2016

August 2016
Exterior work

New bike loops

New sidewalk
New first-floor auditorium

- Seats 265 people
- Terrazzo flooring around the auditorium, in the pre-function space
Second through sixth-floor offices
  • Consist of private offices and cubicles
Construction representative:
Jessica Kolp
kolp@frib.msu.edu
(517) 908-7746

Cyclotron Building - Office Addition - Phase III

Project phase: Construction

The project is anticipated to include a combination of open and private offices a lecture hall and conference rooms, and laboratory space. The addition would be located immediately east of the Phase II Office Addition, and will include demolition of a portion of the existing one-story FRIB/NSCL building and subsequent physical connection to the existing Phase II Office Addition. The project may include the shelving of two floors with an initial build-out of four floors.

The Cyclotron building site is located west of Bogue Street between South Shaw Lane and Wilson Road in the central academic district.

Timeline:
Start of construction: February 2015
Substantial completion: April 2016

Questions, comments, concerns?

Construction representative
- Jessica Kolp, kolp@frib.msu.edu, (517) 908-7746

Design representative
- Jim Wagner, wagner@frib.msu.edu, (517) 908-7391

CP14148
Giltner Hall – alterations to rooms 39, 40, 41, 65, 67, 344A and 363 (CP15073)
September 2016
What is FRP?

• The Faculty Readiness Project (FRP) is a dedicated team from
  o Infrastructure Planning and Facilities (IPF)
  o Facilities Planning and Space Management (FPSM)

• Working together with colleges to
  o Pro-actively plan for potential new hires
  o Use various delivery methods to shorten bid periods
  o Construction timelines to create
    ▪ Positive experience for colleges
    ▪ Welcoming environment for new faculty

• Delivering an outstanding project
  o High quality
  o Time and cost efficient
  o Supports the advancement of the university’s research agenda
Why?

- The FRP team is designing and constructing a new zebrafish facility and various supporting lab/office spaces for two new Integrative Biology research recruits.
Project scope

• Rooms 39, 40 and 41
  o Security access (various areas)
  o Lighting controls
  o Cosmetic upgrades to room 39 office
  o Shoring of floor from subbasement
  o Connect to Aquaneering Fish Lab equipment including three large fish tank rows in the main fish room
  o New flooring, ceiling and furniture in the Developmental Lab
  o Quarantine Room
  o Changing Room for new fish facility
  o Infill of existing lab door
  o Add mechanical room with equipment for the labs own HVAC system to provide required air changes and temperature requirements for fish rooms
  o Exterior door/masonry work for entryway to new mechanical room
Project scope

• Rooms 65 and 67
  o Add wall in room 67 to separate imaging and injection areas

• Rooms 344A and 363
  o Cosmetic upgrades to labs/office on third floor
Impacts

• Construction noise
• Steam shutdowns

Schedule

• Construction start: March
• Ready for occupant setup: August
• Final turnover date: Oct. 1
Giltner Hall – alterations to rooms 39, 40, 41, 65, 67, 344A and 363 (CP15073)
September 2016

Plans for main lab space
Giltner Hall – alterations to rooms 39, 40, 41, 65, 67, 344A and 363  
CP15073  
September 2016

Plans for Injection/Imaging lab (room 67) and office (room 39)

- Black out this window, but AC required.
- Connections to building air (with filter) or pressure bottles (PB).

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remove door

sink
counter top
undercounter fridge

EQUIP (N.I.C.)

table top

sink

whiteboard

desk

t/12 inch

INJ 2

INJ 1

INJECTION AREA

fridge (under counter)

curtain (opens in middle)

PC

air table

dess stc air table
Fish room – with fish racks in place
Filtration room (feeds filtered water to fish racks)
Developmental lab
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IPF website

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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!