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

New projects

• Road milling/repaving and parking lot restriping
• Parking lot reconstruction projects
• Abbot Road landscape rejuvenation project

Project updates

• 1855 Place
• Breslin Student Events Center - facility upgrades
• 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 1: Authorization to plan

- Spartan Stadium – installation of permanent lights
- Athletic fields – Ralph Young Track – replace field hockey field
- International Center – revitalization project
Step 1: Authorization to plan

- Hannah Administration Building - third floor alterations

Step 2: Authorization to proceed

- Engineering Research Complex - addition four and renovations
- Data Center

Step 3: Bid and contract award

- Food Processing and Innovation Center
Milling and repaving
Why?

• The asphalt conditions are to a point where safety is becoming a concern, and the pavement conditions will not last through another snow season with snow plowing.

Timeline

• Work will begin around 8 a.m. on Friday, May 13.
• Asphalt milling all locations through approximately 9 p.m.
• Paving all locations and installing pavement markings from Saturday morning through Sunday evening.
Impacts

• There will be delays, but the goal is to maintain traffic flows.
• Access into parking lots adjacent to roadway resurfacing will be temporarily closed during paving operations only. Once the asphalt cools to vehicle traffic temperatures, we will reopen.
• IPF will do its best to coordinate contractor schedules to line up the equipment needed for the weekend work to minimize the inconvenience to the campus community.
• If inclement weather delays work, the areas that aren’t able to get paved will be reopened to traffic on the following Monday, allowing cars to drive on the milled asphalt. Crews will then return after 5 p.m. during the week (weather depending) to pave the remaining areas to limit the impact to the community.
Summer roadway and parking lot asphalt maintenance

Summer 2016 roadway milling and repaving – May 13 through 15

- Kalamazoo Street from Harrison Road to Birch Road
- Auditorium Road between Physics Road and Bogue Street
- South/west-bound lane of Wilson Road near IM East Field
- Shaw Lane between Chestnut Road and Red Cedar Road
- Science Road between North and South Shaw Lanes
Parking lot restriping
Why?

• The majority of parking areas on campus are striped on a three-year rotation.

Timeline

• Painting is scheduled in two-week time periods to allow for striping to take place in smaller sections and to also allow for weather delays.
• Parking areas that are being painted are generally shut down for two to three hours, but may take longer due to adverse weather conditions which can cause the paint to dry slower.
Impacts

- Painting crews begin work at 5 a.m., and spaces are left available whenever possible.
- Campus visitors and employees are asked to refrain from moving cones or parking in spaces that are being painted or that have been recently painted, so as not to inhibit the painting crew.
Parking lot striping – May 23 through June 10

Lot 56 Reservoir
Lot 71 Wonders Hall service area/loops
Lot 79 Stadium (west)
Lot 81 Building 88
Lot 40 Faculty
Lot 49 Packaging Lab
Lot 72 Case Hall N and S
Lot 85 Manly Miles (west)
Lot 60 IPF (south)
Lot 38 Erickson (gated)
Lot 50 International Ramp #5 Comm Arts

Communication Arts and Sciences - June through July
Parking lot striping – June 13 through June 24

Lot 39 Commuter/visitor
Lot 58 Speech/Audiology
Lot 73 Wilson Hall service area/loops
Lot 86 Manly Miles (east)
Lot 42 Dairy
Lot 43 North of Food Science/Anthony
Lot 93 Nisbet
Lot 74 Holden Hall service area/loops
Ramp #5 Comm Arts
Summer roadway and parking lot asphalt maintenance

Parking lot striping – June 27 through July 8

- Lot 98 Tennis Facility
- Lot 48 Natural Resources
- Lot 62 IM West (faculty)
- Lot 99 University Stores (Angell)
- Lot 77 DPPS south
- Lot 52 Comm Arts (sm lot)
- Lot 62 IM West (west)
- Lot 57 UPLA/IMC
- Lot 78 Duffy FB Building
- Lot 59 IPF
- Ramp #5 Comm Arts
- Engineering barrier-free loop
- Visitor Center

Lot 59 (IPF) - one Saturday in July (weather dependent)

Communication Arts and Sciences - June through July
Parking lot striping – July 11 through July 22

Lot 79 Stadium (east side)
Lot 70 Old Faculty
Lot 55 Central Services
Lot 68 Breslin Loop
Lot 82 Purchasing Building employee
Lot 95 Power Plant (employee)
Lot 59 IPF
Ramp #5 Comm Arts

Lot 59 (IPF) - one Saturday in July (weather dependent)

Communication Arts and Sciences - June through July
Summer roadway and parking lot asphalt maintenance

Project Manager
Adam Lawver
lawver@ipf.msu.edu
(517) 884-2321
Parking lot construction
Parking lot construction

Lot 89 – Commuter Lot (May 9 – June 30)
Parking lot construction

Lots 83 (student) and 88 (Linen Services) – sewer separation project

May 9 through June 6

April 18 through June 6
Lot 92 (Regional Chilled Water Plant) – reconstruction

Lot closed June 24 through August 19

Pedestrian Detour

Road barricades along bike lane line. No traffic lane closure necessary

Parking lot construction
Design representative:
Dave Wilber
dwilber@ipf.msu.edu
(517) 884-2186
Abbot Road landscape rejuvenation project

Project location
Why?

- Norway maples along major circulation route present a safety hazard
  - Overall condition is poor – declining health
  - Internal decay, crown dieback, girdling roots and invasive species
- The Norway spruce has a decay column that extends to grade
Project goals

- Utilize funding to improve a signature campus site
- Renovate an aging landscape to strengthen the university’s historical entrance
- Reinforce the Campus Landscape Master Plan – Campus Entrances Overarching Goal
  - “Establish a recognizable and visually attractive design aesthetic that appropriately identifies the campus at its borders, provides for safe circulation and aids visitor wayfinding.”
Project scope

• Remove 21 declining non-native Norway maples and one declining Norway spruce in boulevard; replace with 14 swamp white oaks (a native species)
  • Oaks will provide a stately canopy structure
  • Some of the oldest trees on campus are swamp white oaks, which demonstrates their longevity
• Remove eight low evergreen groupings in boulevard to improve circulation sight lines
• Add five Sugar Tyme crabapples to provide seasonal interest backdrop at the historic limestone marker
• Enhance adjacent parkways along the Union Building and Campbell Hall by infilling with five trees to maintain a “park-like” signature entrance
• Alleviate soil compaction and amend
Schedule

• Project start: May 23
  • Will begin after College of Law commencement May 13 and East Lansing Art Fair May 21-22
• Project completion: June 17
Impacts

- Southbound Abbot Road will be closed daily (May 23 – June 10) from 8 a.m. – 6 p.m.; open on the weekends.
- Meter parking on southbound Abbot Road will not be available for the project duration (May 23 – June 17).
- Minor intermittent pedestrian detours
- Union sidewalks and parking bays will have temporary closures for repairs and exterior accessibility improvements.
- No utility shutdowns are necessary for work scope.

NOTE:
- During the same period we are taking the opportunity to restore Campbell Hall’s historic masonry benches (along Abbot Road).
Removal plan
Abbot Road landscape rejuvenation project

Proposed plan
Design representative:
Tressa Wahl
twahl@ipf.msu.edu
(517) 884-2185
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
- Event Parking: To Be Relocated on Site
- Police Pole Barn: To Be Replaced
- Scene Shop Pole Barn: To Be Replaced
- State Police Bldg.: To Be Demolished
Site plan
Phase one site phasing plan – September 2015

CONSTRUCTION FENCE
PORTABLE FENCE
JERSEY BARRIER
TRAFFIC FLOW

TEMPORARY CONSTRUCTION ROAD

BLDG. E1  BLDG. E2  BLDG. E3

PARKING DECK

LOT 75
Preliminary site phasing plan – phase two
1855 Place – address and building name assignments
Office\mixed-use building – view from southeast
View of mixed-use building from Harrison and Kalamazoo
“E” buildings – preparation for siding
“E” building progress – framing nearing completion
“D” building #1 – framing in progress
Project webcam

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

1855 Place

Project phase: Construction

MSU is at a crossroads for creating and implementing an integrated, comprehensive strategy for providing housing to its various constituents and incorporating those housing decisions into the use, development, and redevelopment of its land. Many of the factors responsible for the current situation are identified in the Residential and Hospitality Services (RHS) Strategic Plan 2013-2023.

The RHS Strategic Plan has identified family housing and apartment-style housing as important to the MSU mission. However, various facilities which have met these needs in the past are no longer available. The Cherry Lane and Faculty Bricks apartments were demolished in 2011 after exceeding their life expectancy. The apartments located at Spartan Village have outlived their useful life, and repair, maintenance, and renovation have become cost-prohibitive. The Board previously authorized the Administration to proceed with the demolition of certain parts of Spartan Village. Recent plans call for the conversion of Spartan Village apartments...
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
May 16 through June 3 – phasing plan
Breslin Student Events Center – facility upgrades
May 2016

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
Exterior entry / concourse additions
Phase one – gate entrance rendering
Phase two – exterior – Hall of History

Breslin Student Events Center – facility upgrades
May 2016
Northeast addition – brick installation
Southwest addition
Northwest addition
Construction representative:
Jason Van Zee
jvanzee@ipf.msu.edu
(517) 432-2675

Design representative:
Jeff Bonk
jbonk@ipf.msu.edu
(517) 884-6746
FRIB location

Project site
FRIB traffic and pedestrian routing during construction

Present to October 2016
- Restripe and turn over one west-bound and two east-bound lanes
  - Site fence moved south
  - Bike path open

November 2016
- All four lanes of Wilson Road will be re-opened
Rendered perspective – southwest view
Rendered perspective – southeast view
Rendered perspective – northeast view
FRIB construction progress
Working ahead of baseline schedule

• Three of six helium compressors have been installed in the compressor room
• Non-conventional utilities are 46% complete
• Metal panel installation on the south elevation is ongoing
• Condenser water piping in lower second-floor chiller room
• Resuming structural steel installation between south high bay and target facility
• Installation of coalescers has begun
FRIB construction progress

Helium compressors installed in compressor room
FRIB construction progress

Cable being ran from the high voltage switches to the substations
FRIB construction progress

Masonry and metal panel installation on southwest corner of building
FRIB construction progress

View of Linac tunnel looking east
Project Representative:
Brad Bull
bull@frib.msu.edu
(517) 908-7751

Additional Information:
www.frib.msu.edu
Cyclotron – addition 16 – office
May 2016
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 consists 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, approx. 74,000 square feet
  o First floor features, 265 seat auditorium
  o Floors two thru six will 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:

• Masonry completed: December 2015
• Elevator completed: April 2016
• Flooring and painting started: April 2016
• Curtain wall completed: May 2016

Schedule

• Construction start: February 2015
• Ready for occupancy: August 2016
Aerial view of site showing location of new office addition

Cyclotron – addition 16 – office

May 2016

December 2015

April 2016
Impacts

• Sidewalk enclosure on south side of south Shaw Lane to protect pedestrian traffic will be taken down beginning May 9, 2016.

• Pedestrian and bike traffic will share the bike lane on the south side of south Shaw until the project is complete (August 2016)
Sixth floor drywall and door frame installation
Curtain wall framing on north side of building
Roof-top units set in place – January 2016
Construction representative:
Jessica Kolp
kolp@frib.msu.edu
(517) 908–7746
Giltner Hall – alterations to rooms 39, 40, 41, 65, 67, 344A and 363
May 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 occupancy: July
Giltner Hall – alterations to rooms 39, 40, 41, 65, 67, 344A and 363
May 2016

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

Giltner Hall – alterations to rooms 39, 40, 41, 65, 67, 344A and 363
May 2016

- black out this window, but AC required
- connections to building air (with filter) or pressure bottles (PB)

Diagram details:
- Imaging area
- Injection area
- Sink (keep)
- Counter top
- Undercounter fridge
- Storage
- Office 39
- Men 38B
- Passage 38
- Bookshelf
- Desk
- 67 234SF
Condition of labs during construction – main Fish Lab (room 40)
Condition of labs during construction – Departmental Lab

Giltner Hall – alterations to rooms 39, 40, 41, 65, 67, 344A and 363
May 2016
FRP representative: Monte Pride
mapride@ipf.msu.edu
(517) 353-1648
IPF website

- Alerts feed
- Construction
  - Detours
  - CJ info
  - Project info
  - Contact info
- Resources
- Listservs

www.ipf.msu.edu
Stay connected via social media

- Follow IPF on Twitter: www.twitter.com/MSUfacilities
- “Like” IPF on Facebook: www.facebook.com/MSUFacilities
- Watch IPF videos on YouTube: www.youtube.com/FacilitiesMSU
- Follow IPF on Instagram: https://www.instagram.com/facilitiesmsu
Construction Junctions continue monthly

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

- June 7
- July 7
- August 7

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