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

December 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

Campus Snow Plan

New projects
- Spartan Stadium – install permanent field lighting
- Ralph Young Track – replace field hockey playing surface
- T.B. Simon Power Plant – cap the coal pile site

Project updates
- 1855 Place
- Breslin Student Events Center - facility upgrades
- Facility for Rare Isotope Beams – building structure
Step 2: Authorization to proceed

- Parking – Lot 63 – Breslin
- Wharton Center - replace existing roof sections 1, 2, 3 and 4
- Roads - Trowbridge Road - repaving Harrison Road to Oyer
- Parking Lot 92 - reconstruction and expansion
Step 2: Authorization to proceed

- Jenison Fieldhouse – alterations to office space
- Instructional space improvements – Bessey Hall, Natural Science and Veterinary Medicine
- Spartan Stadium – install permanent field lighting
- Engineering Research Complex – addition four and renovations
- Ralph Young Track – replace field hockey playing surface
- International Center – revitalization project

Step 3: Bid and contract award

- Food Processing and Innovation Center
- Healthy Campus Initiative – recreation and fitness – replace pool and locker room HVAC systems
It’s snow season. Be snow safe!

• Don’t rush – give yourself time to get to work
• Drive carefully
• Dress warmly
• Wear sensible shoes
• Watch where you are walking
• Shorten the length of your stride while walking
• Check the forecast before heading outside
Safety

- Do not dart out in front of or behind snow-removal equipment. It is large, loud and difficult to stop quickly.
- Make eye contact with a snow-removal equipment operator before crossing in front of him/her.
Salt and ice-melt compound

- Dial 353-1760 to report icy spots on campus.
- It takes time for the ice-melt compound to take effect.
Brine versus no brine

Inch of snow and wind
11/18/14
Brine versus no brine
Remember... your help is needed!

WALKWAY ICE MELT

If you see an icy area, please sprinkle it with ice-melt compound.

Please help us keep walking surfaces clear of snow and ice this winter.

The ice-melt compound is an environmentally friendly alternative to salt that is provided by your Infrastructure Planning and Facilities partners in snow removal:

- Building Services–Custodial Services
- Landscape Services

Thank you for your help!

INFRASTRUCTURE PLANNING AND FACILITIES

WE KEEP MSU RUNNING
ipf.msu.edu • Call 353-1760
Sidewalks

- Do not park so close to the sidewalk that your car’s bumper hangs over it.
Parking lots

- Avoid parking in the part of a lot that has not yet been cleared.
- Park where it’s plowed or wait a few minutes for the driver to finish and then park freely in the cleared lot.
Residence hall parking loops

• Parking is prohibited in residence hall loops from 2 to 6 a.m.
• With 65 people plowing, 26,000+ spaces must be cleared before 6 a.m.
• To request services or to report dangerous spots on campus, call 353-1760.
• If you can’t call, tweet IPF (@MSUFacilities) to report snow concerns (and to send photos).
• For more information on MSU’s snow-removal plans, visit ipf.msu.edu.
  o Snow and ice removal services: http://ipf.msu.edu/services/snow-and-ice-removal.html
  o Green practices for snow removal: http://ipf.msu.edu/green/practices/snow-removal.html
• E-mail feedback, suggestions and comments to snowplan@ipf.msu.edu.
Spartan Stadium

December 2016

Spartan Stadium – install permanent field lighting (CP15015)
Why?

• Spartan Stadium currently employs the use of temporary rental lighting to illuminate the field for night-time events.
• This lighting is provided and paid for by the television networks broadcasting from the facility.
• The installation of permanent lighting is a requirement of the new Big Ten Broadcast Agreement, which goes into effect for the 2017 football season.
Project scope

• Installation of permanent LED field lighting in Spartan Stadium.
• Field lighting will meet NCAA National Championship broadcast lighting levels of 125 vertical foot candles.
• Field lighting will be fully controllable.
Impacts

• Minimal pedestrian detouring around facility
• Potential single-lane closure of the east service drive to the Service Garage, however it will be accessible at all times

Timeline

• Construction start: February 2017
• Ready for use: July 2017
Potential light fixture locations
Lighting system design
Spartan Stadium – install permanent field lighting (CP15015)

December 2016

Logistics plan – March through May 2017
Spartan Stadium – install permanent field lighting (CP15015)  
December 2016  

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

Background  
Currently, the Athletic department rents lighting systems to temporarily light the Spartan Stadium field for nighttime events. These are provided and paid for by the television networks broadcasting from the facility. The installation of permanent lighting is a requirement of the new Big Ten broadcast agreement, which goes into effect for the 2017 football season.

Project details  
As planning begins, it is anticipated that this project will include installation of permanent field lighting at Spartan Stadium. The lighting system will be energy efficient, likely utilizing LED technology.

Spartan Stadium is located between Chestnut Road and Red Cedar Road in the athletic and recreation district.

Questions, comments, concerns?

Project representative:
- Jeff Bonk, jbonk@ipf.msu.edu, (517) 884-6746
Ralph Young Track – replace field hockey playing surface (CP16083)
December 2016
Why?

- The artificial turf of the Ralph Young field hockey field has exceeded its rated life and must be replaced.
- Failures in the sub-surface are beyond repair.
- Seams are failing, potentially impacting player safety and game integrity.
Project scope

- Replacement of artificial turf (carpet), underlayment and irrigation system
- Replacement or restoration of portions of track impacted by construction
Impacts

• Minor pedestrian detour along sidewalk north of track

Timeline

• Construction start: May 2017
• Ready for use: July 2017
Aerial view of Ralph Young Track
Concept plan

Ralph Young Track – replace field hockey playing surface  *(CP16083)*

December 2016
Field hockey field
Example of deteriorated playing surface
Design representative: Tressa Wahl
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(517) 884-2185
Retired coal pile site

T.B. Simon Power Plant – cap the coal pile site (CP16184)
December 2016
Why?

• Surplus of coal had been depleted after the decision to cease burning coal at the Power Plant
• Capping was an integral component of the retirement process for the coal storage area
  o It enables removal of the coal pile from the campus MDEQ (Michigan Department of Environmental Quality) Air Quality Permit.
• It has created an improved surface area
  o Utilized MSU recycled crushed concrete
  o Minimizes future maintenance
Project scope

• Contouring of the entire site (where coal had been stored) to a consistent subgrade with no export of existing materials.
• Covering this same area with:
  o Geotextile fabric to control intermixing of capping materials with the existing subgrade
  o Eight inches of certified clay material over the fabric
  o Six inches of topsoil over the clay, with two-thirds of the surface being seeded, and the remaining third being covered with MSU recycled crushed concrete gravel
Impacts

• Congested logistics around the Power Plant and adjacent facilities due to importing of materials used to cap the site.

Timeline

• Construction start: Oct. 19
• Construction complete: Nov. 17
Coal pile before retirement
Final coal being gathered March 2016
Grading of existing area in preparation for capping material
Final finish grade in place, 2/3 seeding in foreground, 1/3 gravel beyond
Construction representative:
Chris Barnes
cbarnes@ipf.msu.edu
(517) 355-1628
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
- Parking Ramp 7 open: April 2016
- Family Student Housing Unit occupancy: August 2016
- Single Student Housing Unit occupancy: August 2017
- Starbucks, Marketplace, Apparel Shop and Ticketing Office open: August 2017
- Office building, Hall of Champions and Housing Assignment Office occupancy: October 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
Phase two site phasing plan – August 2016
Office\mixed-use building – view from southeast
View of mixed-use building from Harrison and Kalamazoo
Masons and roofers work to enclose the office/retail tower
The west side of the office/retail tower, working on enclosure
Masonry work progresses on the office/retail tower
A look at the student housing exterior progress
Framing work on the student housing building end caps continues
Another view of one of the end caps
Project webcam

http://oxblue.com/open/Walbridge/SpartanVillage
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. Re Grade parking lot to meet ADA requirements
7. Drop-off zone
8. Proposed Hall of History Plaza
Work on the Hall of History addition continues
Another view of the Hall of History steelwork
Workers continue preparations for concrete
Some of the steel work that makes up the unique architecture of the facility
Phase two – exterior – Hall of History
Project webcam

http://oxblue.com/open/MSU/Breslin
Construction representative:
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(517) 432-2675
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
Building layout
FRIB construction – aerial view
Cryogenics

- Cryogenic transfer line installation continues in tunnel
- Upper and lower cold boxes installed
- Large bore warm piping in Compressor Room
- Small bore gas and process cooling water piping continues

Upper and lower cold boxes

Helium compressors installed
FRIB Construction Progress

Horizontal cold box installed
FRIB Construction Progress

Electrical panels mounted on equipment racks
Metal panel installation on southwest corner of building
Project Representative:
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Additional Information:
www.frib.msu.edu
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!