CONSTRUCTION PLANNING AND PROGRESS MEETING
BROUGHT TO YOU BY INFRASTRUCTURE PLANNING AND FACILITIES
Thursday, Dec. 11, 2014

Twitter hashtag #msuconstruction
Today’s agenda

- MSU Board of Trustees updates

- 2014-15 campus snow communications

- New presentations
  - North Campus Infrastructure Improvement – West Circle Drive 2015

- Progress updates
  - Bio Engineering Facility
  - Veterinary Teaching Hospital – Nursing Care Unit Renovation
  - Kellogg Center – Replace Absorption Chilled Water System
  - Chittenden Plaza
Step 1: Authorization to Plan
• Children's Garden - Restroom - Construct Original Building

Step 2: Authorization to Proceed
• Life Sciences – Renovations – A Wing
• North Campus Infrastructure Improvement – West Circle Drive 2015
• Grand Rapids – Former Press Building Demolition
• MSU Community Music School – Reconstruct Parking Lot
• Facility for Rare Isotope Beams - Power Plant Connection
• T.B. Simon Power Plant - Upgrade Utility Substation
Step 1: Authorization to Plan
• Hubbard Hall - Exterior Masonry Repair

Step 2: Authorization to Proceed
• Engineering Building - Chiller Replacement
• New Intercollegiate Golf Facility
• T.B. Simon Power Plant - Upgrade Natural Gas Distribution System
• Grand Rapids - Real Estate and Research Facility Development
• Cyclotron – Addition 16 - Office
• 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.
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.

- Snow and ice removal services: http://ipf.msu.edu/services/snow-and-ice-removal.html
- 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.
Why?

• Replace existing structurally deteriorating arch steam tunnels from the North Campus Substation to Steam Vault 376 (northeast corner of Library building), some of which are 87 to 102 years old.
• Provide new steam services to Olds Hall and complete the north campus steam loop (which also includes steam distribution work in the NCS).
• Install new electrical duct bank from the NCS to north of Olds Hall and replace deteriorated electrical vault lid by Olds Hall.
• Road reconstruction of West Circle Drive (two 10-foot traffic lanes, one 4-foot bicycle lane) from the east side of the MSU Library to the west side of the Auditorium Road and West Circle Drive intersection. Improve pedestrian, vehicular and bicycle safety.
• Reconfigure Parking Lots 6 and 11 to meet current parking standards.
• Replace deteriorated cast iron water mains and improve fire flow capacity.
• Decommission NCS electrical transformers.
• Repair/replace deteriorated sanitary and storm sewer mains.
Impacts

• Major buildings impacted during this phase of construction:
  o Music Building
  o Music Practice
  o Intramural Circle
  o MSU Library
  o MSU Museum
  o Olds Hall
  o Hannah Administration Building

• West Circle Drive will be temporally closed from the MSU Library/Hannah Administration entrance to Auditorium Road. There will be limited access (delivery-only for approximately eight weeks) from Beal Street to the MSU Library/Hannah Administration drive.

• Temporary detour plans and pamphlets/signs will be developed shortly.

• Local town-hall meetings will be scheduled after project review with President Simon and Provost Youatt.
Parking impacts

• Parking Lot 6 (MSU Museum parking lot) has been reconfigured to meet current parking standards and will result in a loss of eight (total count from 45 to 37) parking spaces.
• Parking Lot 11 (Hannah Administration, MSU Library and Olds Hall) has been reconfigured to meet current parking standards and pedestrian safety. The above improvements will result in a loss of 10 (total count from 127 to 117) parking spaces.
Timeline

• Construction begins: May 11, 2015
• West Circle Drive and Parking Lot 6 reopened: July 5, 2015
• Parking Lot 11 and access drives reopened: Aug. 14, 2015
Proposed West Circle Drive project area and phases

Phase 4 of 4
Proposed hardscape, utilities and vegetation
Proposed road, parking and site flatwork

<table>
<thead>
<tr>
<th>PARKING SPACES IMPACTED</th>
<th>BARRIER FREE SPACES</th>
<th>NON-BARRIER FREE SPACE</th>
<th>TOTAL SPACES</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOT 6 EXISTING</td>
<td>3</td>
<td>42</td>
<td>45</td>
</tr>
<tr>
<td>LOT 6 PROPOSED</td>
<td>2</td>
<td>36</td>
<td>37</td>
</tr>
<tr>
<td>CHANGES TO LOT 6</td>
<td>-1</td>
<td>-7</td>
<td>-6</td>
</tr>
<tr>
<td>LOT 11 EXISTING</td>
<td>8</td>
<td>118</td>
<td>127</td>
</tr>
<tr>
<td>LOT 11 PROPOSED</td>
<td>9</td>
<td>106</td>
<td>117</td>
</tr>
<tr>
<td>CHANGES TO LOT 11</td>
<td>0</td>
<td>-10</td>
<td>-10</td>
</tr>
</tbody>
</table>
North Campus Infrastructure Improvement - West Circle Drive 2015

North Campus Infrastructure Improvement - West Circle Drive 2015

CONSTRUCTION.MSU.EDU

Design representative:
M. Scott Gardner
mgardner@ipf.msu.edu
(517) 432-0782

Construction representative:
Andy Linebaugh
alinebau@ipf.msu.edu
(517) 432-7103

North Campus Infrastructure Improvement – West Circle Drive 2015

Project phase: Planning/Design

The north campus arch-style steam tunnels are 97 to 102 years old and have significantly deteriorated. The structural anchors, pipe supports, and steam equipment within these tunnels are severely deteriorated and require replacement or repair for safe and reliable operation of the steam distribution system. Communication lines are in the same tunnels as steam and condensate return lines, which is not optimal. The existing electrical duct bank is currently full, requiring additional ducts be installed for future electrical improvements to this region of campus. This project is the final segment of a four-segment program.

Project details:
- Project includes replacing the deteriorating north campus steam tunnels and building service leads.
- Increasing the steam distribution mains to the region.
- Increasing steam line capacity and converting the condensate return from a vacuum system to a pressure return.
Why?

• This project involves a four-story research lab building that is designed to facilitate interdisciplinary research and interaction among all occupants.

• The building will be physically connected to the existing Clinical Center C-Wing and Life Science B-Wing, with proximity to the Radiology Building to facilitate the sharing of core research resources.

Timeline

• Construction start: September 2013
• Ready for occupancy: December 2015
Impacts

• The two east doors on the southeast side of Life Science are for emergency egress only (directional fencing in place).
• The north drive off of Service Road, east of the Life Science building, will remain open for construction traffic and deliveries only.
• There will be increased construction traffic.
Workers prep to install glass above the main entrance doorway.
Workers frame the second-floor corridor (connecting Bio Engineering to Life Science).
The new steam vault was formed and poured over Thanksgiving break.
Construction detour plan (Sept. 27, 2013 – Aug. 31, 2015)

Road closed to the public. Construction and delivery use only.

Three-way stop
Construction Representative: Ken Gottschalk
kjgottsc@ipf.msu.edu
(517) 353–7234
Veterinary Medical Center
Project goals

- Modernize the Critical Care Unit via flexible floor plan.
- Centralize observation for 24-hour specialized care.
- Provide mechanical upgrades to the ventilation and temperature controls.
- Provide natural light and install roof monitors and windows.
Project scope

• This project includes an open, flexible floor plan to allow for centralized observations and 24-hour specialized care, along with mechanical upgrades and the introduction of natural lighting.
  o Total 2,800 gross square feet

Timeline

• Start of construction: June 2014
• Ready for occupancy: December 2014
Proposed floor plan
Bird’s-eye view from northwest
Veterinary Teaching Hospital – Nursing Care Unit Renovation
December 2014

Critical Care Unit entry (sliding doors)
Examination equipment
Kennels align the back wall
Construction representative:
Ken Dawson
kdawson@ipf.msu.edu
(517) 353-9716
Why?

- Project goals
  - Replace existing steam-absorption chiller plant that has reached the end of its useful life.
  - Provide the Kellogg Center with a reliable and efficient chilled-water cooling system.

- Scope
  - Remove both 700-ton steam-absorption plants.
  - Install 680-ton modular chiller in existing mechanical room.
  - Replace cooling towers on roof (existing location to remain).
  - Kellogg Center must remain in operation throughout chiller plant replacement.

- Impacts
  - Harrison Road single-lane closures will be limited to evenings.
  - Closures will not occur during athletic events.
Schedule:

- Construction start: November 2014
- Project completion: April 2015
Site plan (project will require night-time lane closures for cooling tower removal)
Work involves demolishing existing Kellogg chiller.
Workers remove cooling tower.
The cooling tower has been removed and new cooling towers will be installed.
Construction representative:
Kevin Durkin
kdurkin@ipf.msu.edu
(517) 432-2153

Kellogg Center – Replace Absorption Chilled Water System
December 2014

Kellogg Center - Replace Absorption Chilled Water System

Project phase: Construction
The existing steam-absorption chiller serving the Kellogg Hotel and Conference Center has reached the end of its useful life. In order to maintain hotel, conference and academic operations this chiller must be replaced.

Project details:
• This project includes removing the existing steam-absorption chiller and replacing it with a modular electric chiller in the existing mechanical room.
• It will include the removal of both 700-ton steam-absorption plants that are currently in place, and replacing them with one 680-ton modular chiller.
• The modular chiller consists of eight small chillers connected together. This allows for efficient cooling by turning on only enough of the chillers to accommodate the current cooling demands.
• The University Hazardous Materials Report for this building will be referenced for design.

The Kellogg Hotel and Conference Center is located on Harrison Road in the Residential District.
Why?

• This project involved a comprehensive renovation that respected the historical features of the exterior and interior of the building.

• Interior spaces to support the Graduate School program drove the design and layout of these rooms.

• Renovations included:
  o Building infrastructure;
  o Addressing needs such as plumbing, heating ventilation and air conditioning, electrical, life safety and data;
  o Building envelope and foundation;
  o Updating accessibility, including addition of an elevator and restrooms.
Timeline

• Construction start: Nov. 19, 2013
• Plaza completion: November 2014
View of new plaza from the east entrance
View of new plaza from east entrance
New plaza on east side of Chittenden Hall
Video: Chittenden Hall – before and after
Graduate School website features frequent Chittenden updates

MICHIGAN STATE UNIVERSITY

Home Academic News Beneath The Lantern Professional Development Inside Teaching Life & Wellness

Money Matters Stay Connected!

THE GRADUATE SCHOOL

You Are Here: Home » Beneath The Lantern » Campus Archaeology And Chittenden Hall

Campus Archaeology and Chittenden Hall

Katie Kelly November 7, 2014 Beneath the Lantern No Comment

Today marks the official dedication of the renovated Chittenden Hall. For those who have followed our blogging over the past year, you know that a lot has gone into this renovation process. A part of this included the MSU Campus Archaeology Program (CAP). Visitors to Chittenden Hall will be able to view posters that have been prepared by CAP about Chittenden Hall and the northern part of campus.

CAP was officially developed in 2008 by Professor Lynne Goldstein (Department of Anthropology) in response to the growing awareness of and need for archaeological work across MSU’s 5,000 acre campus. The program emerged from a 2005 MSU field school that was conducted as the Department of Anthropology’s contribution to MSU’s Sesquicentennial celebration. Goldstein, with the support of MSU President Lou Anna K. Simon, proposed excavating the first college dormitory as an on-campus field school. The dormitory housed students from 1855 to 1870, and there was a certain symmetry in having students today learn about students 150 years previously by excavating the first dormitory. The field school revealed foundations just below the ground surface and demonstrated the value of archaeology on MSU’s campus to the public and administration. CAP focuses on research
Construction representative:
Andy Linebaugh
alinebau@ipf.msu.edu
(517) 432-7103
IPF website

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

www.ipf.msu.edu
Alerts feed on IPF website

Current work alert information available – now sortable
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
PLEASE FILL OUT A SURVEY!

They are available on the table at the front of the room

- Please fill out your surveys and return them to the front table before you leave.
- We want your thoughts and suggestions about how you feel Construction Junction went, and what we could do to improve.
- Thank you in advance!
Construction Junctions continue monthly

Meetings are at 8:30 a.m.
the second Thursday of the month

- Jan. 8 (College of Law, room 471)
- Feb. 12 (College of Law, room 343)
- March 12 (College of Law, room 343)

Please sign in and take a survey before you go!