Welcome to this special edition of Construction Junction!

ICE CREAM CONES AND CONSTRUCTION ZONES

2013 summer construction roundup
Thursday, April 11, 2013
Brody Hall Room 112

Please sign in and complete a survey!
Twitter hash tag #msuconstruction
With your construction friend and mascots

Captain Construction

Barry the Barrel

Coney
Goals of this special edition:

• Inform you of impending summer construction
  o What, why, when, how it will impact you, who to contact
• Focus on projects that are:
  o High profile (highly visible, new buildings, etc.)
  o High impact (may cause pedestrian, biker and/or motorist detours)
• Commiserate, have fun, eat ice cream
Today’s agenda

- **Board of Trustee updates**
- **Special guests:**
  - Infrastructure Planning and Facilities Safety Officer
  - Michigan Department of Transportation (MDOT) – US 127 and I-496
  - City of East Lansing – Kalamazoo Street and Albert Street
- **Project updates**
  - Brody Neighborhood – Utility Improvements – Phase V
  - Butterfield Hall – Major Renovation
  - Parking – Lot 67 (Jenison) – Reconstruction
  - Duffy Daugherty Football Practice Field Filming Tower
  - Spartan Stadium – Addition 5 – North End Zone
  - West Circle Steam Loop Segment 2 2013
  - Morrill Hall Demolition
  - Botany Greenhouses Demolition
  - Auditorium – Alterations to Fairchild Theatre
  - Bogue Street and Shaw Lane Intersection Reconstruction and Steam System Repairs
  - Facility for Rare Isotope Beams – New High Bay and Duct Bank
  - Bio-Engineering Facility
  - Transportation Services – New Fuel Station
  - Parking lot painting schedule
Step 1: Authorization to Plan
  • Olin Health Center – Chiller Replacement

Step 2: Authorization to Proceed
  • Bio-Engineering – New Building
  • Facility for Rare Isotope Beams (FRIB) – 25 MW Electrical Duct Bank

Step 3: Bid and Contract Award
  • Parking – Lot 67 (Jenison) – Reconstruction
Step 1: Authorization to Plan

- Athletic Fields – Munn Field – Artificial Turf Field

Step 2: Authorization to Proceed

- Spartan Stadium – Addition 5 – North End Zone
- Munn Ice Arena – HVAC Upgrades Ice Making System
- Hannah Administration – Renovations to Second Floor – VP for Research
- Michigan State Police Post – Buildings 110G and 110H Renovations
- Well House No. 32 – Construct Original Building
Safety
Safety is our first priority

• For all campus travelers:
  • Please respect construction site fencing; do not traverse sites.
  • Detour routes around construction zones:
    • Established with MSU PD for your safety and convenience
    • Please follow signs for your safety
    • All detour routes posted at www.construction.msu.edu

• Pedestrians and bikers:
  • Avoid darting out in front of or behind equipment, and make eye contact with drivers before crossing the street in front of them.
  • Ride your bike at a safe speed near construction sites.

• Vehicles:
  • Watch out for temporary pedestrian crossings.
  • Drive at posted speed limits.

➢ To report an area of concern call 353-1760
Sprinkle in some trivia!

What number should you call if you see an area of safety concern?
Sprinkle in some trivia!

Answer: 353-1760 (on campus 3-1760)
MDOT projects
LANSING TRANSPORTATION SERVICE CENTER
GRAND RIVER AVE (M-43) AND MICHIGAN AVE (M-143)

- 4.19 mi of hot mix asphalt cold milling and resurfacing, joint and crack repairs, concrete pavement, sidewalk, ramps, and curb and gutter, non-motorized pathway, drainage, traffic signals, water main, and pavement markings

- Limits - Grand River Ave. from Coolidge Road to Park Lake Road, and Michigan Ave. from the west city limits to Grand River Ave. in the city of East Lansing
GRAND RIVER AVE AND MICHIGAN AVE

- Cost $6.6 million
- Reconstruct and add indirect left turn at Beal St. and Harrison
- Mill & fill and rehabilitation
- Anticipated fix life
  - 5-10 years on Michigan Ave
  - 8-15 years on Grand River/M-43
- Start March 2013
- Complete October 2013
- Multiple interim completion dates to minimize impacts
STAGE I

Median Crossover Reconstruction, Beol Street realignment, Intersection improvements at Harrison Road.
STAGE I

- Grand River Ave. (M-43) and Michigan Ave. (M-143)

- **Traffic:**
  - Maintain at least one lane in each direction at all times on both routes.

- **Work:**
  - Modifications to the median turn-arounds between Harrison Rd. and Grand River Ave.
  - Realignment of the Beal Street intersection with Michigan Ave.
  - Sidewalk ADA updates.
  - 1 ½ inch asphalt milling and resurfacing.

- **Schedule:**
  - Grand River Ave. from Coolidge to Michigan Ave: March to Late April.
  - Michigan Ave. from the E. Lansing west city limit to Grand River Ave: March to July.
BEAL STREET REALIGNMENT
BEAL STREET APPROACH
BEAL STREET REALIGNMENT
RETAINING WALL
STAGE I - BEAL STREET
UPCOMING WORK

- ADA ramp and 8 foot non-motorized sidewalk work begins next Monday, April 15 between Bogue Street and Stoddard Avenue.
  - Single lane closure required for eastbound M-43
  - Pedestrians detoured to north sidewalk
- Grand River joint repairs and repaving
- Continued work on Beal Street reconstruction
In 2013, the Michigan Department of Transportation (MDOT) will invest more than $25 million on four busy corridors in the Greater Lansing and East Lansing areas. Significant improvements are planned along I-496, US-127, M-43 (Grand River Avenue) and M-99 (Martin Luther King Jr. Boulevard). Overall, construction involves work on 39 bridges, repairs to 9 miles of highway, installation of intelligent transportation cameras and message boards, traffic signal modernization, and enhancement projects.

- **I-496** – Bridge Work
- **M-99** (Martin Luther King Jr. Boulevard) – Road Work
- **US-127** – Bridge Work
- **S.B. US-127** – Auxiliary Lanes
- **M-43** (Grand River Avenue) and Michigan Avenue – Road Work
QUESTIONS?

Greg Losch MDOT Construction Engineer 517-335-3770
Loschg@michigan.gov
City of East Lansing projects
Kalamazoo St. – Infrastructure Improvements

- Michigan Ave.
  - One Lane Each Direction for Paving One Week In August

- Kalamazoo St.
  - Closed April 1 – August 23

- Closed May 6 – August 23

- Closed May 6 – August 23

- Closed May 6 – August 23

- Clippert St.

- Harrison Rd.
Ann Street Plaza

CLOSED Summer of 2013
Construction Superintendent:
Leisa Williams-Swedberg
lwilliam@ipf.msu.edu | 517-432-9685
Why?

• Need to update: Utility infrastructure was installed in the 1950s when the complex was originally built.

• Project involves:
  • replacing the steam and condensate distribution system
  • creating a loop from the Harrison Road bridge to Brody Hall

• This is the fifth and final phase of major infrastructure projects in the Brody Neighborhood.
Impacts: Brody utilities and Butterfield Hall

Closed to all traffic June 17, 2013 to June 2014. Access will be maintained during student move-in and move-out.
Impacts:

• Closure of driveway on east and south side of Emmons
• Steam and condensate shutdowns to Bailey and Emmons halls.
  • i.e. hot water and air conditioning shutdowns
• Project will be shut down during exam week
• Roads will be open for student move-out
Timeline:

- Construction start: February 2013
- Substantial completion: August 2013
  - building will be ready for occupancy
  - roads will be re-opened
  - steam and condensate will be operating
- Work after substantial completion:
  - finishing touches to landscape
- Final completion: August 2014
Construction representative:
Jason VanZee
jvanzee@ipf.msu.edu
517-432-2675

Brody Neighborhood - Utility Improvements - Phase V

In-Construction
February 2013 - August 2013

Description: The utility distribution system in the Brody Neighborhood is more than 50 years old and no longer able to provide reliable service. The direct-buried steam and condensate return lines (which are involved in heating and cooling campus buildings) from Brody Hall to Bailey Hall and Emmons Hall were installed in 1957 and have been repaired several times.

This project involves replacing the steam and condensate distribution system and creating a loop from the Harrison Road bridge to Brody Hall. The loop provides redundancy so the complex can continue to be fed steam if there is a line break.

Timeline: Construction is planned to begin in April 2013, with substantial completion in August 2013, and final completion by August 2014.

Questions, comments, concerns?
Design Representative: John LeFevre, jlefevre@ipf.msu.edu, 517-884-6740
Butterfield Hall – Major Renovation

Butterfield
Impacts:

• Building will be shut down from June 2013 to June 2014
• Parking lot entrance on east side of Butterfield will be closed
• Pedestrian traffic will be maintained around Butterfield.
• Closure of driveway on north and east side of Emmons (due to utility work being done for the Brody Neighborhood)
Impacts:

Closed to all traffic June 17, 2013 to June 2014. Access will be maintained during student move-in and move-out.
South elevation – court yard entrance
Construction representative:
Nick Wilk
nwilk@ipf.msu.edu
517-355-3372
Lot 67 Jenison

Parking – Lot 67 (Jenison) – Reconstruction
Why?

• To meet:
  • safety requirements
  • storm water management standards
  • pavement standards

• The project will:
  • address failed irrigation lines,
  • extend the water supply to a new fire hydrant to meet current fire code,
  • install LED lighting and address accessibility requirements related to Jenison Field House entrances.
Parking – Lot 67 (Jenison) – Reconstruction

Jenison Field House
Impacts/timeline:

• Closures:
  • **Parking lot:** Complete closure of Lot 67 from May 6 until mid-August.
  • **Road closure:** Kalamazoo Street between Birch and Demonstration Hall Road for one week in early May.
  • **Driveway to ramp:** Temporary closure of south driveway to Kellogg Center parking ramp expected.
  • **Loading dock:** Jenison Field House dock closed duration of project.

• Temporary pedestrian sidewalk detour:
  • From May 6 to June 1, pedestrians will use south side of Kalamazoo Street.

• Access maintained to:
  • Jenison Field House for pedestrians
  • Parking loop on the east side of Jenison Field House
  • Red Cedar Greenway for pedestrians and bikers
Impacts: First week of May
Construction representative: Andy Linebaugh
alinebau@ipf.msu.edu
517-432-7103

Parking – Lot 67 (Jenison) – Reconstruction

In-Planning/Design
February 2013

Description: Parking Lot 67 was originally constructed with Jenison Field House in 1940. Other than minor redesign to address barrier-free issues and access to the Kellogg Center parking ramp, it has remained substantially unchanged. The pavement has outlived its useful life and does not meet current pavement system design standards. In addition, irrigation lines located underneath the parking lot have deteriorated and are failing and the water supply line for fire suppression to Jenison no longer meets fire code.

Parking Lot 67 is adjacent to the west and north sides of the Jenison Field house in the athletic and recreation district. This project involves redesign and reconstruction of the parking lot to meet current standards for safety, storm water management, and pavement. The project will address the failed irrigation lines, extend the water supply to a new fire hydrant to meet current fire code, install LED lighting and address accessibility requirements related to Jenison Fieldhouse entrances.

The project also includes restoration of the parking lot service drive. The service drive provides access to the adjacent athletic fields and will involve installation of a short section of the Red Cedar Greenway bicycle path.

The location of this project is consistent with the Campus Master Plan and Planning Principles. Based on an assessment of the factors stated in the Project Planning and Approval process concerning Project Labor Agreements (PLA), the Vice President for Finance and Operations and Treasurer has determined that a PLA would not be required for this project.

Questions, comments, concerns?

Design representative: Dennis Hansen, hansen@ipf.msu.edu, 517-353-9223
Duffy Daugherty Football Practice Field Filming Tower
Why?

- To provide a safer environment for videotaping and viewing football practice.
- 50-foot video tower
  - 40-foot high viewing platform
  - concrete foundation
- Placement:
  - Will sit between the two practice fields
  - Replaces concrete slab where temporary lift now sits
Timeline:

- Construction start: Mid-April
- Complete: Mid-June 2013

Impacts:

- Early June: Possible lane closure on eastbound Shaw Lane to accommodate delivery and placement of tower
- Throughout: Minimal, intermittent lane closures for concrete, material delivery
Construction representative:
Kevin Durkin
kdurkin@ipf.msu.edu
517-432-2153
Sprinkle in some trivia!

How tall will the new filming tower be?
Sprinkle in some trivia!

Answer: 50 feet
Why?

• Provide an all-sports recruitment facility, campus-wide media center and new football locker rooms and support spaces.

• This project includes:
  • a two-level addition,
  • adding recruiting rooms to the concourse level,
  • building new locker rooms and team spaces,
  • creating media center on the lower level of the addition,
  • adding shell space for future restrooms on the concourse level,
  • Adding donor plazas at J and K gates,
  • renovating gates to comply with Homeland Security requirements.
Impacts:

- Loss of parking in donor lot directly north of stadium
- East/west sidewalk closed on north side; pedestrians routed to the north
- After football season, northwest and northeast corners will be closed for renovations
North view
Spartan Stadium – Addition 5 – North End Zone

Construction representative:
Jason Vanzee
jvanzee@ipf.msu.edu
517-432-2675

Spartan Stadium - Addition 5 - North End Zone

In-Planning/Design
April 2012 - April 2013

Description: The north end of Spartan Stadium has a number of issues that need to be addressed. There are just-in-time maintenance needs in the concourse, and the locker rooms need to be upgraded. The stadium currently lacks a formal recruiting space and game-day media space is inadequate.

The planning of this project is anticipated to include creating a two-level addition; adding recruiting rooms to the concourse floor; addressing maintenance needs; upgrading locker rooms and team spaces; creating media rooms on the lower level of the addition; and adding shell space for future restroom and concessions facilities.

Spartan Stadium is located between Shaw Lane, Chestnut Road and Red Cedar Road in the athletic and recreation district. The location of this project is consistent with the Campus Master Plan and Planning Principles.

Questions, comments, concerns?
Design Representative: Scott Gardner, mgardner@ipf.msu.edu
Project area
Why?

• Michigan State University uses steam to heat campus buildings
• Some steam tunnels are old and in need of repair.
• Project also includes core infrastructure improvements:
  • water main upgrades
  • telecommunication upgrades
  • electrical upgrades
• West Circle Drive will be reconstructed to:
  • have two traffic lanes and a bike lane,
  • be consistent with current MSU transportation standards.
Impacts:

• Road closures:
  • Kalamazoo Street closed from the Sparty intersection north.
  • West Circle Drive closed from the Beal intersection east to MSU Library.
  • Beal Street will be closed through mid-summer as part of MDOT’s M-43 (Grand River Avenue)/M-143 (Michigan Avenue) project.

• Northbound campus traffic will be directed to Farm Lane to access north campus.

• Two-way traffic maintained from Auditorium Road to the MSU Library so that the MSU Museum, MSU Library and Olds Hall are accessible.

• Some utilities may be interrupted (electrical, computer, phone) as upgrades are made to those systems, but they should be very minimal, short in duration, and will be scheduled in advance.
Impacts: Multiple phases
Visit construction.msu.edu for updates
Steam System and Road Reconstruction – West Circle Steam Loop 2013 (Segment 2 of 4)

Brochure, display board available

For the most updated information and detour maps, visit: construction.msu.edu/westcircle2013 and construction.msu.edu/bose.

PHASE 1: JANUARY – APRIL
- Lane restrictions on Bogue Street, Shaw Lane and West Circle Drive.
- No roads closed.
- Noisy work will be suspended during exam week and commencements. April 19-May 5.
- All lanes will be open for move-out, May 4.
- Demolition on Beal Street entrance, resulting in road closure. (MDOT project)

PHASE 2: MAY 5 – JUNE
- Closure at Beal Street and Kalamazoo Street intersection.
- Temporary access drive to Music Building.
- Closure at Bogue Street and Shaw Lane intersection.

PHASE 3: LATE JUNE – AUGUST
- Beal Street reopens.
- Beal Street and Kalamazoo Street intersection reopens.
- Closure at Bogue Street and Shaw Lane intersection.
- West Circle Drive closed from Bogue Street to Shaw Lane.
- Temporary two-way traffic from Auditorium Road to the MSU Student Union.
- West Circle Drive, Bogue Street and Shaw Lane will reopen for move-out.

*Dates and diagrams are subject to change.
Timeline:

• Construction start: January 2013
  • Multiple phases: check construction.msu.edu for updates
• Substantial completion: Aug. 16
Construction representative:
Andy Linebaugh
alinebau@ipf.msu.edu
517-432-7103
Why?

• Built in 1900, it has outlived its usefulness. The building has structural issues, high heating costs and is too expensive to maintain for the amount of useable space it provides.

• The work scope currently involves:
  • demolition
  • landscaping
  • pathways
  • additional bike parking
  • possible terrace to commemorate the history of the building
    • dependent upon funding
    • terrace designs inspired by students
Impacts/timeline:

- **Demolition start:** May 2013 (after student move-out)
- **Demolition and site restoration complete:** Mid-August 2013
- **Completion date if plaza is incorporated:** September 2013
- At this time, sidewalks south of Morrill Hall will be closed
  - Pedestrian traffic routed to the south side of East and West Circle Drives.
- No motorist detours. West Circle Drive will remain open. Minimal temporary lane closures may occur for material removal.
- **Other notables:**
  - Dust-mitigation will be practiced
  - Special dust protection for adjacent parking ramp 6
  - Due to the nature of demolition projects, there will be noise
  - As many materials as possible will be recycled and/or salvaged
Construction representative:
Chris Barnes
cbarnes@ipf.msu.edu
517-355-1628

Morrill Hall Demolition

In-Planning/Design
January 2010 - February 2013

Description: In June 2010, the Michigan State University Board of Trustees approved a plan to demolish venerable Morrill Hall on the campus's north side. To provide space for current Morrill Hall occupants, the plan includes an addition to Wells Hall and renovations to the Old Horticulture Building.

Close monitoring of the internal wooden structure of Morrill Hall has revealed irreparable deterioration, indicating that the more than 100-year-old building is approaching the end of its useful life. The university has determined that reconstruction and restoration of the building, which was built in 1900, would not be economically feasible.

The replacement of Morrill Hall will offer the university a unique opportunity to significantly upgrade the quality of space for its current occupants, and to achieve a more efficient use of space through effective design and allocation.

The departments of English and History currently occupy the majority of space in Morrill Hall. The project will create a language hub at Wells Hall including English, Linguistics and Germanic, Slavic, Asian, and African Languages; Spanish and Portuguese; English Language Center; and French, Classics and Italian - and place these units in proximity to colleagues in the College of Education and International Studies Programs. Religious Studies and African American African studies also will relocate to Wells Hall. The ultimate goal is to create cohesive and vibrant communities for students, faculty and staff.

History will relocate to Old Horticulture in total and maintain its north campus location. Renovations to Old Horticulture are planned as part of this project to accommodate the relocated History department.

The demolition of Morrill Hall will occur in 2013. The work scope currently involves demolition of structure, site restoration with lawn, sidewalks, benches and commemorative signage. As the demolition and site plan details are further developed, opportunities for site restoration will be explored, including ways to commemorate the significance of the Morrill Act and potentially using pieces of the Morrill Hall building.
Sprinkle in some trivia!

In what year was Morrill Hall built?
Sprinkle in some trivia!

Answer: 1900
Botany Greenhouses Demolition
Why?

• Built in 1908, the greenhouse has outlived its usefulness. The cost to maintain the building is no longer cost-effective.

• New technology in greenhouse design, the small size of the greenhouse as well as greenhouse operations made this greenhouse irrelevant.

• The site will be replaced for the most part with turf and a few parking spaces.
  
  o Some modifications will be made to:
    • improve pedestrian movement,
    • correct an Americans with Disabilities Act sidewalk problem,
    • correct fire exit route for the adjacent Chittenden Hall.
**Timeline:** (done in tandem with Morrill Hall demolition)

- **Demolition start:** May 2013 (after student move-out)
- **Demolition and site restoration complete:** Mid-August 2013

**Impacts:**

- Pedestrian walkway between Old Botany and Marshall/Adams Hall will be closed.
- Expect significant traffic congestion during the demolition and new construction due to associated construction vehicles.
- Other notables:
  - Dust-mitigation will be practiced.
  - To allow for the demolition hauling trucks and to protect the public, about 20 parking spaces will be temporarily taken out-of-service.
  - Due to the nature of demolition projects, there will be noise.
Construction representative:
Chris Barnes
cbarnes@ipf.msu.edu
517-355-1628

Botany Greenhouses Demolition

Description: The Botany Greenhouses and Headhouse contained the plant science teaching collection. The collection is utilized primarily for undergraduate courses, providing a hands-on experience for students. The Greenhouses and Headhouse range in age from 81 to more than 100 years old. Through review and analysis of the structures it was determined that they are well beyond their useful life, present significant safety hazards, and are prohibitively costly to repair. Given the condition of the Greenhouses and Headhouse, it was necessary to relocate the teaching collection to existing greenhouse space in the central academic campus, and the Greenhouses and Headhouse are no longer in use.

The Botany Greenhouses and Headhouse are located East of Old Botany and next to Lot 7 in the north academic district. This project involves the demolition of existing structures with restoration of the site to include turf, storm drainage, and limited modifications to the parking. The primary user groups of these facilities, including faculty and staff from the College of Natural Science, were closely involved in the condition assessment of the buildings and planning for relocation of the plant collections.

Timeline: Construction is planned to begin in October 2012, with substantial completion in July 2013, and final completion in December 2013.

Questions, comments, concerns? Design representative: Dennis Hansen, hansan@ipf.msu.edu
Auditorium – Renovations to Fairchild Theatre

Fairchild Theatre
Why?

• The 560-seat Fairchild Theatre, located within the auditorium at the intersection of Farm Lane and Auditorium Road, provides an adequately sized facility, but has limited effectiveness as a music venue due to the lack of an orchestra pit and proper acoustics.

• This project includes:
  • installation of an orchestra pit with a lift system,
  • an orchestra shell with acoustical upgrades,
  • relocation of the scene shop dressing room and prop storage room,
  • renovation of existing, and construction of additional restrooms,
  • barrier-free accessibility will expand access to the lower level of the building, Arena Theatre, upper balcony seating and second-and third-floor offices
  • installation of an elevator.
Impacts:

• **Road closure:** From the intersection of Physics and Auditorium Road west to Farm Lane mid-May through mid-June.
  - Will require vehicular traffic to be detoured around the north side of the Psychology Building and for pedestrian traffic to be limited to one side of Auditorium Road.

• Construction work along the south side of the building will have periodic impact on the kiln area for the Kresge Art Center.
  - These impacts will be short in duration and will be coordinated in advance with the associated departments.

• Several events normally held in the auditorium (such as spring commencement activities and Science Olympiad) will still be held.
Impacts:

Auditorium – Renovations to Fairchild Theatre

Closed to all traffic late May to early June.
Auditorium – Renovations to Fairchild Theatre

Construction representative:
Todd Wilson
tdwilson@ipf.msu.edu
517-432-4355
Why?

• The existing Bogue Street and Shaw Lane traffic circle does not meet current federal design guidelines for public rights-of-way to provide equal accessibility for all users.

• Steam system repairs are part of this project as Michigan State uses an intricate network of steam tunnels and lines to heat campus buildings, and some of the lines are in need of repair to avoid failures in steam delivery.

• Additional core infrastructure improvements will be made in conjunction with the steam upgrades, including:
  • water main upgrades,
  • telecommunication upgrades,
  • electrical upgrades.
Impacts:

- Steam System and Road Reconstruction – Bogue Street and Shaw Lane Intersection

- Closed to all traffic late May to early June.

- Deliveries to Owen, Van Hoosen and Business Complex via south bound Bogue Street.

- Lot 23 and north Owen Hall entrance closed. Access to loading dock will be maintained.

- Two-way traffic to Cyclotron and Shaw Hall.
Timeline:

• **Construction start:** January 2013

• **Complete closure of the Bogue Street/Shaw Lane intersection:** Begins May 5 and will reopen in time for student move-in, Aug. 16.
The future intersection
Brochure, display board available

2013 STEAM SYSTEM REPAIRS

For the most updated information and detour maps, visit: construction.msu.edu/westcircle2013 and construction.msu.edu/bc

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PHASE 3: LATE JUNE - AUGUST
- Beal Street reopens.
- Beal Street and Kalamazoo Street intersection reopens.
- Closure at Bogue Street and Shaw Lane intersection.
- West Circle Drive closed from Bogue Street intersection to the MSU Auditorium Drive.
- Temporary two-way traffic on Auditorium Road to the MSU Auditorium Drive.
- West Circle Drive, Bogue Street and Shaw Lane will reopen for move-in.

Dates and diagrams are subject to change.
Construction representative:
Andy Linebaugh
alinebau@ipf.msu.edu
517-432-7103
Sprinkle in some trivia!

How many seats does the Fairchild Theatre hold?
Sprinkle in some trivia!

Answer: 560 seats
FRIB - Superconducting Radio Frequency (SRF) High Bay

- Program need
  - Create an assembly and testing space for the technical components and equipment that will be utilized in the Facility for Rare Isotope Beams (FRIB) and accelerator facilities around the world
  - Yield an integrated and more consolidated base of operations, improving superconducting cavity and cold mass production, production cavity and cryomodule test efficiency

- Project description
  - Construct a new SRF High Bay that will house incoming accelerator structures (cavity) QA and inspection, cavity hydrogen de-gassing furnace, processing and cold-mass assembly, power coupler conditioning, vertical cavity test area, cryomodule test facility and control room
Facility for Rare Isotope Beams (FRIB) - SRF High Bay

FRIB - SRF High Bay site layout
Facility for Rare Isotope Beams (FRIB) - SRF High Bay

Progress

• **Schedule**
  - MSU Board of Trustees Step 2 - Authorization to Proceed received Oct. 26, 2012
  - Construction began in early March 2013
  - Project completion is scheduled for late August 2014

• **Construction status**
  - A temporary walk-way and fencing have been installed around the perimeter of the site, which will extend to include the Wharton Center drop-off loop on May 6.
  - Utility relocation is underway for underground water, sanitary, natural gas, chilled water, electrical and communications duct bank.
  - Underground site utilities within the current construction fencing have been installed with the exception of natural gas piping, which is scheduled to be completed by the end of the week.
  - Deep foundations work is scheduled to start with drilling of caissons in late April.
Progress photos

New electrical and communication duct bank for SRF High Bay

New chilled-water lines running under existing duct bank for SRF High Bay
Facility for Rare Isotope Beams (FRIB) - New High Bay

In-Planning/Design
June 2012 - February 2013

Description: The FRIB project is located at the corner of Wilson Road and Bogue Street in the central academic district. The planning of this project is anticipated to include a new 27,000 square foot high bay (known as the SRF High Bay), which will be used to house superconducting radio frequency technical facilities at MSU including the following designated areas: incoming accelerating structures (cavity) QA and inspection, cavity hydrogen de-gassing furnace, cavity processing and cold-mass assembly facilities, power coupler conditioning, vertical cavity test area, cryomodule test facility, test facility control room, and cryogenic systems. This will yield an integrated and more consolidated base of operations improving superconducting cavity and cold mass production and production cavity and cryomodule test efficiency.

Timeline: Construction is planned to begin in March 2013 and will be substantially complete by March 2014, with a final completion by August 2014.

Comments, questions, concerns?
Project Representative: Brad Bull, babull@ipf.msu.edu, 517-908-7751
• **Program need**
  • The existing electrical cables from the T.B. Simon Power Plant do not have the capacity to carry future loads required by the FRIB facility.

• **Project description**
  • Install concrete encased duct bank from the T.B. Simon Power Plant to FRIB/Cyclotron that will be capable of transmitting up to 25 MW of electrical power and have spare capacity for future campus needs.
  • Beginning west of the T.B. Simon Power plant, the electrical duct bank will extend through campus to the Bogue Street and Wilson Road intersection.

• **Schedule**
  • MSU Board of Trustees Step 2 – Authorization to Proceed
  • Planned construction start in early May pending board approval
  • Substantial completion September 2016
Phasing plan

Scope of Work

1. Install Ductbank and Manholes from MH#737 to E1
2. Purchase wire for entire run from 50' beyond MH#737 to FRIB Primary Electrical Room
3. Pull and Splice Wires from MH#737 to E4
4. Turn over remaining wire to MSU for future connection from E4 to FRIB Primary Electrical Room
Facility for Rare Isotope Beams (FRIB) 25 Mega Watt Electrical Duct Bank

In-Planning/Design

**Description:** The planning of this project is anticipated to include the installation of a concrete-encased duct bank from the T. B. Simon Power Plant to Facility for Rare Isotope Beams (FRIB)/Cyclotron which will be capable of transmitting up to 25MW of electrical power and have spare capacity for future campus needs. This project is necessary for the delivery of power to the FRIB facility regardless of the sources or providers of the power.

The electrical duct bank will be gin to the west of the T. B. Simon Power Plant in the Service District and terminate at the northwest corner of Wilson Road and Bogue Street in the central academic district.

**Comments, questions, concerns?**

Project Representative: Brad Bull, babull@ipf.msu.edu, 517-908-7751
FRIB brochure available
Why?

• The construction of the Bio-Engineering Facility will provide a unique opportunity to bring together research teams from engineering and biomedical research to promote the development of bio-engineering and engineering health sciences at Michigan State University.

• This project includes construction of a new bio-engineering facility which is anticipated to connect with Life Science and the Clinical Center C-Wing.

• The facility will maximize research space in open or modular labs.
  • Will feature shared:
    • support rooms with specialized equipment
    • procedure rooms
    • Offices
    • informal gathering space.
Timeline:

- **Construction start:** May 2013 (contingent upon legislative approval)
- **Substantially complete:** August 2014 (contingent upon legislative approval)

Impacts:

- Egress patterns for surrounding buildings
- Sidewalk closures
- Loading dock coordination with Life Science and Clinical Center C Wing
Bio-Engineering – New Building

North elevation

South elevation
Bio-Engineering – New Building

Construction representative:
Ken Gottschalk
kgottsc@ipf.msu.edu
517-355-3372

Bio Engineering Facility
In-Planning/Design
September 2011 - June 2013

Description: The construction of the Bio Engineering Facility will provide a unique opportunity to bring together research teams from engineering and biomedical research to promote the development of bio-engineering and engineering health sciences at Michigan State University.

The planning of this project is anticipated to include construction of a new bio engineering facility which is anticipated to connect with Life Science and the Clinical Center C-Wing. The facility will maximize research space in an open or modular lab layout with support rooms that house specialized and shared equipment procedure rooms, offices, and informal gathering space. It would take advantage of core research resources in the adjacent buildings where possible. The project would be located south of Life Science and Clinical Center in the South Academic District.

Questions, comments, concerns?
Design Representative: Jeff Kasdorf, kasdorf@ipf.msu.edu, 517-353-5141
Why?

- Safety and environmental issues require moving the fueling station from Spartan Stadium.
- There are efficiencies to keeping the car wash, which is at the end of its useful life, located with the fueling station. Relocation of the car wash would also eliminate the need to move vehicles for major events at Spartan Stadium.
- This project will include:
  - decommissioning the existing fueling station and underground fuel tanks on east side of stadium,
  - creating new fueling station on Service Road, including:
    - gas pumps,
    - an overhead canopy paved,
    - circulation space for large and small service vehicles (including buses),
    - a new car wash to replace the existing facility.
Transportation Services – Self-Serve Fuel Station

Fuel station and car wash – looking northeast
Construction representative:
Chris Barnes
cbarnes@ipf.msu.edu
517-355-1628

Kevin Durkin
kdurkin@ipf.msu.edu
517-432-2153

Transportation Services – New Fuel Station
In-Planning/Design
April 2012 - April 2013

Description: The current Transportation Services Fueling Station is located adjacent to Spartan Stadium. There are safety and environmental issues that require moving the fueling station from this large assembly area. Further, there are efficiencies to keeping the car wash, which is at the end of its useful life, located with the fueling station, and relocation of the car wash would also eliminate the need to move vehicles for major events as Spartan Stadium. The project team has identified Service Road, east of the Laundry Building, as the best location for a new facility.

The project is located at Spartan Stadium (between Shaw lane, Chestnut Road and Red Cedar in the athletic and recreation district) and on Service Road (east of the Laundry Building). The planning of this project is anticipated to include decommissioning the existing fueling station and relocating the function to an alternative location. The new station will include underground tanks, dispenser units and overhead canopy paved circulation space to accommodate large and small service vehicles as well as buses and rental vehicles. The project will also include construction of a new car wash to replace the existing facility.

Questions, comments, concerns?

Design Representative: Jeff Kasdorf, jkasdorf@ipf.msu.edu
2013 Parking Lot Painting Schedule
Why?

• The majority of parking areas on campus are striped on a three-year rotation. Painting is scheduled in two-week time periods to allow for striping to take place in smaller sections and to also allow for rain days.

• Parking areas that are being painted are generally shut down for two to three hours, but may take longer due to weather conditions such as temperature and humidity, 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 – Painting Schedule

Timeline:

May 28 - June 14
- Reservoir (Lot 56)
- Wonders Hall - service area & loops (Lot 71)
- South Stadium - west side (Lot 79)
- Building 88 (Lot 81)
- Old Pavilion - east (Lot 39)
- Packaging Lab (Lot 49)
- Case Hall - north and south (Lot 72)
- Manly Miles - west (Lot 85)
- Physical Plant - west (Lot 60)

June 17 - June 28
- Old Pavilion - west (Lot 40)
- Speech/Audiology (Lot 58)
- Wilson Hall - service area & loops (Lot 73)
- Manly Miles - east (Lot 86)
- Anthony Hall - Dairy Store loop (Lot 42)
- Nisbet (Lot 93)
- Holden Hall - service area and loops (Lot 74)

July 1 - July 12
- Food Science, (Lot 43)
- Tennis Facility (Lot 98)
- Natural Resources - east and west (Lot 48)
- I.M. West/Faculty (Lot 62)
- University Stores/Angel Building (Lot 99)
- DPPS/South (Lot 77)

July 15 - July 26
- Breslin - east and west (Lot 63)
- South Stadium - east side (Lot 79)
- Jenison (Lot 67)

July 29 - August 9
- Central Services (Lot 55)
- I.M. West - gated lot (Lot 62)
- Breslin Loop (Lot 68)
- Duffy Football Building (Lot 78)
- Erickson (Lot 38)
- International Center (Lot 50)
- UPLA (Lot 57)

May 28 - August 9
- Ramp 5 (Comm Arts)
- Student Storage - East side (Lot 89)
Parking Lot – Painting Schedule

Landscape Service contacts:
Kim Consavage
kconsavage@ipf.msu.edu
517-355-7750

Tracy Harris
tharris@ipf.msu.edu
517-355-7750

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MSU Construction

2013 Parking Lot Painting Schedule

In-Construction
May 2012 - August 2012

The majority of parking areas on campus are striped on a three-year rotation. Painting is scheduled in two-week time periods to allow for striping to take place in smaller sections and to also allow for rain days. Parking areas that are being painted are generally shut down for two to three hours, but may take longer due to weather conditions such as temperature and humidity, which can cause the paint to dry slower. 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.
Sprinkle in some trivia!

What two buildings will the new Bio-Engineering Facility connect?
Sprinkle in some trivia!

Answer:
Life Sciences Building and the Clinical Center
CUSTOMER TOWN HALL MEETINGS

Infrastructure Planning and Facilities

• IPF is:
  • Unit formerly known as Physical Plant
  • Campus Planning and Administration
  • Land Management (25%)
  • Office of Campus Sustainability
    – Including MSU Surplus Store and Recycling

• “A new organization and culture.”

• We want to hear from our customers:
  • **Tuesday, April 16:** 3:30 p.m., [Molecular Plant Sciences](#), room 1200
  • **Wednesday, April 17:** 8:30 a.m., [Old Horticulture](#), room 206
  • **Friday, April 19:** 1:30 p.m., [Communication Arts and Sciences](#), room 147
Stay connected via social media*

For updates on all things IPF follow @MSUPhysPlant on twitter and become a fan of our facebook page – MSU Physical Plant Division. Also, check out our YouTube page at youtube.com/physicalplantmsu for virtual tours of major projects on campus.

*Social media names will change soon to reflect the new unit.
BEFORE YOU GO, VISIT THE CONSTRUCTION ‘SITE’:

CONSTRUCTION.MSU.EDU

Key features:

• Construction projects
  – Project info
  – Contact information
• Construction detours
• Construction Junctions
• Construction listserv
Construction Junctions continue monthly

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

• May 9 (Cook Recital Hall in the Music Building)
• June 13
• July 11

Please sign in and take a survey before you go!