CONSTRUCTION PLANNING AND PROGRESS MEETING
Brought to you by the Physical Plant Division
Thursday, February 14, 2013

Twitter hash tag #msuconstruction
Today’s Agenda

• Board of Trustee updates

• Special guests
  • All University Traffic and Transportation Committee
    2012-13 Draft Recommendations
  • Michigan Department of Transportation (MDOT) 2013 Capital Investment
    (Grand River Avenue and Michigan Avenue work begins in March)

• Project updates
  • Steam Distribution and Road Reconstruction – West Circle Steam Loop 2013 –
    Phase 2 of 4
  • Music Building Electrical Substation
  • Auditorium – Renovations to Fairchild Theatre
  • MSU Union – Renovations to First-Floor Lobby
Step 1: Authorization to Plan

- Akers Hall – Dining and Life Safety Renovation
- Munn Ice Arena – HVAC Upgrades and Ice Making System Replacement
- North Campus Infrastructure Improvements – West Circle Drive 2014
- North Campus Infrastructure Improvements – West Circle Drive 2015

Step 2: Authorization to Proceed

- Parking – Lot 67 (Jenison) – Reconstruction
- Transportation Services – New Fuel Station

Step 3: Bid and Contract Award

- Reconstruct Bogue Street and Shaw Lane Intersection and Steam Distribution – Replace Lines to Owen Graduate Hall
- Butterfield Hall Renovation
Step 1: Authorization to Plan
  • Athletic Fields – Munn Field – Artificial Turf Field

Step 2: Authorization to Proceed
  • Bio-Engineering – New Building
  • Spartan Stadium – Addition 5 – North End Zone
  • Well House No. 32 – Construct Original Building

Step 3: Bid and Contract Award
  • Parking – Lot 67 (Jenison) – Reconstruction
ALL UNIVERSITY TRAFFIC AND TRANSPORTATION COMMITTEE

2012-2013

PROPOSED RECOMMENDATIONS
Observation
The communication manager position approved in the 2010-2011 AUTTC Recommendations with responsibilities including the communication of transportation and pedestrian safety issues to the campus community remains unfilled.

Recommendation
Institute the communication manager position and provide an annual budget for communicating information specifically on transportation and pedestrian news and safety matters.
Messages – Good for NY Good for MSU

1. Too averse to risk
   To chance the lottery, yet
   Steps into traffic

2. 8 million swimming,
   The traffic rolling like waves.
   Watch for undertow.

3. Imagine a world
   Where your every move matters.
   Welcome to that world.
“Sprocket Man, the Superman of bike safety, returns”

Stanford University
**SPROCKET MAN**

The law says you must have a bike headlight and rear reflector...

...so we’ll make it easy for you: **Receive a FREE** bike light when you register your bike!

Don’t forget to take off the light when not in use...or someone else will!

Light Giveaway sponsored by President Hennessy

http://transportation.stanford.edu

White Plaza Light Giveaways & Bike Registration on Wednesdays 12–3. Or bring your bike to Parking & Transportation Services, 340 Bonair Siding, next to Maples Pavilion.

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**SPOCKET MAN**

STOP

Bicyclists, this stop sign means YOU, too!

Cars and cops expect you to obey it!

By law, you are like a driver of a vehicle. So obey all traffic signs, signals & laws!

Parking & Transportation Services http://transportation.stanford.edu

**PEDESTRIANS HAVE THE RIGHT OF WAY!**

http://transportation.stanford.edu

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Don’t DIRC Around Campaign
University of Colorado

DIRC - YouTube
don’t
DIRC
around.

facebook.com/dontdirc
Residence Hall
Floor Boards

Helpful Hints for Staying Safe on Campus
And you thought Siri was a life saver.

– Never Walk alone on campus at night; walk with a friend or use
  • State Walk: On-campus night-time walking service, which pairs up volunteers with those leaving the Main Library to various on-campus locations.
    • Mon – Thurs: 9 p.m. to 1 a.m.
    • Sign up at the reference desk on the first floor of the Main Library
  • CATA Designated Evening Routes:
    • Mon – Fri: 7 p.m. to 2 a.m.
    • Sat – Sun: 9 a.m. to 2 a.m.

– Night Owl:
  • Mon – Fri: 2 a.m. to 7 a.m.
  • Sat – Sun: 2 a.m. to 9 a.m.

– Emergency Green Phones
  • Residence halls without landline room phones have emergency room phones installed on every floor. This allows anyone with a safety risk or concern to quickly get to a phone with one-button emergency capability, greatly increasing emergency response time.

– MSU Alerts
  • MSU has partnered with Blackboard Connect-Ed to provide time-sensitive notifications to the campus community. MSU can call, email and send text messages related to campus safety quickly and easily.
Observation
Many employees are unaware that one of their benefits is free use of CATA bus system for campus travel.

Recommendation
Utilize multiple existing campus communications mediums like “The Source” with regular frequency to remind and stimulate use of CATA by employees.
Observation
On campus CATA bus shelters provide an excellent location for campus communications.

Recommendation
Negotiate the use of on campus bus shelters for hosting a campus communication campaign on safety issues.
Observation
Current campus street lighting coupled with the number of pedestrians and bicyclists on campus creates a safety concern at night with less than ideal visibility.

Recommendation
Accelerate the change of campus street lighting to brighter LED lighting and prioritize the change schedule to do primary traffic crosswalks first.
Observation
The current model that splits funding, planning, and maintenance of bicycle and moped parking areas on campus between Physical Plant handling academic areas, and Residential and Hospitality Services handling residential areas, may not be the most effective model.

Recommendation
Assign this university function to only one department for the most effective and coordinated funding, planning and maintenance.
Observation
Many of the signs identifying building locations are located on roadways but few are located on pedestrian or bike ways like the river trail.

Recommendation
Review current pedestrian and bike way directional signs on campus and increase as necessary.
Observation

Many of the areas that the AUTTC has studied and made recommendations on over the years have been incorporated into the annual operations and responsibilities of campus departments like the MSU Police, MSU Bikes, Campus Planning, etc. This has reduced the need for recommendations from the committee in these areas.
Recommendations

1. Repurpose the work of the committee toward campus transportation and pedestrian safety concerns, education, and awareness, while continuing its role as a sounding board for concerns on other traffic, parking, and transportation issues.

2. Review the composition of the group and make adjustments as needed based on the new purpose such as the inclusion of Olin Health Center representation.

3. Rename the group to correlate with its new purpose as the All University Safety and Transportation Committee. AUSTC
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 $6.1 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
PROJECT OVERVIEW

Stage I: March to July
- A single lane in each direction shall be maintained on M-43 (Grand River) and Michigan Ave at all times.
- Construction of the proposed turn arounds on Michigan Ave between Harrison Rd and Grand River Ave.
- Realignment of the Reel Street intersection.
- Sidewalk ADA updates

Stage II: March to August
- Close single lane in each direction to complete curb, sidewalk, and ADA improvements.
- Cross traffic over to mill and resurface. (20 days)

Stage III: May to August
- Maintain a minimum of one lane in each direction at all times. Majority of the time 2 lanes in each direction will be maintained.
- Driveway upgrades, water main, pedestrian path improvements, joint repairs, milling and resurfacing.

Stage IV: Complete by October
- Maintain a minimum of one lane in each direction at all times. Pedestrian path to Brookfield Dr, sidewalk ADA improvements, driveway work, joint repairs, milling and resurfacing.

Median Crossover Reconstruction, Red Street realignment, Intersection improvements at Harrison Road.
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.
STAG I - BEAL STREET
STAGE II
STAGE II

- Grand River Ave. (M-43) from Michigan Ave. (M-143) to Bogue St.

- Traffic:
  - Maintain at least one lane in each direction at all times during the sidewalk and ADA upgrades.
  - Utilizing crossovers at each end of this stage, cross traffic over to mill and resurface while maintaining one lane in each direction on the same side of M-43.

- Work:
  - Sidewalk ADA and signal upgrades.
  - 5 ½ inch Asphalt mill and resurfacing.

- Schedule:
  - Overall Stage II time frame is May 6th to early August.
  - 5 ½ Asphalt mill and resurfacing will be allowed only 26 days.
STAGE III AND IV
STAGE III

- Grand River Ave. (M-43) from Bogue St. to Hagadorn Rd.

**Traffic:**
- Maintain at least one lane in each direction at all times.
- 2 lanes in each direction will be maintained the majority of the time.

**Work:**
- Construction of non-motorized path on both north and south side.
- ADA upgrades and driveway work.
- Approximately 400 feet of water main
- Joint repairs
- Signal upgrades
- 3 ½ Asphalt mill and resurfacing.

**Schedule:**
- March to mid August.
STAGE IV

- Grand River Ave. (M-43) from Hagadorn Rd. to Park Lake Rd.
- Traffic:
  - Maintain at least one lane in each direction at all times.
  - 2 lanes in each direction will be maintained the majority of the time.
- Work:
  - ADA upgrades and driveway work.
  - Joint repairs
  - 3 ½ Asphalt mill and resurfacing.
- Schedule
  - Complete by early October.
ANTICIPATED TRAFFIC DELAYS

- One lane maintained in each direction at all times

- **STAGE 1:** Resurface M-43 (Grand River) and M-143 (Michigan Ave.); non-motorized path between Collingwood and Hagadorn Road.
  - Less than 2 minute delay for M-43 and M-143
  - Estimated 9 minute delay for non-motorized path

- **STAGE 2:** Resurface M-43 through downtown East Lansing
  - Estimated 15 minute delay (statewide TMP approved)

- **STAGE 3:** Resurface M-43 from Bogue St to Hagadorn Rd
  - Estimated 8 to 9 minute delay

- **STAGE 4:** Resurface M-43 from Hagadorn Rd to Park Lake Rd
  - Estimated 8 to 9 minute delay
INNOVATIONS

- Tiered/graduated incentive clauses totaling $250K
  - Downtown resurfacing 26 days total - $10K, not to exceed $50k
  - Interim completion from west limit to Hagadorn of August 9, 2013 - $25K/day not to exceed $150K
  - Interim completion to Park Lake - $10K/day not to exceed $50K

- Liquidated Damages (LD)
  - Same L.D./day amount as above with no upper cap
  - All other dates - $7,500/day

- Incentivized hot mix asphalt Initial Production Lot (IPL) criteria
COMPLETE STREETS

- Buffered bike lane on Michigan Ave.
- Major non-motorized path on north and south side of M-43 from Bogue St. to east of Hagadorn Rd.
COORDINATION

MDOT’s 2013 Capital Investment

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
COMMUNICATIONS

- Communication/Media team consisting of LTSC, MDOT office of Communications, and CATA to brand and promote the “2013 Capital Project” strategy investment and strategy plan
- Interactive Web site - michigan.gov/capitalinvestment
- Multiple stakeholder groups
- Public information meetings prior to design completion
- Construction update meetings
- Planned transit perspective construction workzone review on a CATA bus
- Lansing area ListServe
- Twitter
QUESTIONS?

Greg Losch MDOT Construction Engineer 517-335-3770
Loschg@michigan.gov
Steam Vault 370 is backfilled and the construction fencing is down.
Looking north at some lay down area across the street from the IM Sports Circle Building
Panoramic of the IM Sports Circle electrical substation progress. Looking west
IM Sports Circle electrical substation progress
More laydown area just east of the IM Sports Circle electrical substation
Steam Distribution and Road Reconstruction – West Circle Steam Loop 2013

MSU Construction

Physical Plant Home

Project Status
Planning/Design
Construction
Archived

Construction Home ➤ Projects ➤ Steam Distribution - West Circle Steam Loop Segment 2 (2013)

Steam Distribution - Replace West Circle Steam Loop Segment 2 (2013)

In-Construction

Description: The north campus arch-style steam tunnels are 87 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. The water main in this area is also at the end of its useful life and should be increased in size for effective fire-fighting capability and reliability. 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 and requires additional ducts to be installed for future electrical improvements to this region of campus.

This project is anticipated to be the second phase of a four-phase program to replace the deteriorating north campus arch steam tunnels, and is anticipated to include replacing the existing deteriorated arch steam tunnel from IM Circle to vault 95, north of the MSU Library, along with repair and replacement of steam piping, supports and equipment within some existing steam tunnels. The project is also anticipated to include replacing the deteriorated cast-iron water main with a larger pipe to increase fire-flow capacity and reliability. Additional communication and electrical duct will be installed, West Circle Drive will be reconstructed with two traffic lanes and a bike lane to be consistent with current MSU transportation standards, including pedestrian, bicycle and vehicular traffic flow and safety. On-street parking removal will be investigated.

The proposed project is located along Beal Street and West Circle Drive, between the MSU Library and IM Circle in the North Academic District.
Looking at the steam tunnel leading to steam vault 374 south of the Music Practice Building
Music Building Electrical Substation
February 2013

View of the new electrical substation work
Up-close shot of Music Building electrical substation
View of the temporary driveway used for deliveries from West Circle Drive adjacent to the MSU Union

February 2013
Music Building - Replace Electrical Substation

In-Planning/Design
November 2008 - January 2013

Description: The Music Building is located on West Circle Drive across from IM Sports Circle. The electrical system needs to be upgraded. The upgrade will provide a double-ended electrical service to this building. This double-ended sub-station will be fed by two circuits. If there is a circuit failure, the other circuit can provide service to the facility without a power outage.

The new vault will be placed in an underground vault adjacent to the music-music practice pedestrian tunnel within the courtyard area of the two buildings. There will be space and provisions for an emergency generator in the new vault that can be added in the future. All work will be performed underground and will take about three months to be put in place.

Timeline: The project will start over Christmas break in 2012. The sheet pile driving required to construct the new vault will take place between the Christmas and New Year’s holidays to minimize noise interruption.

Questions, comments, concerns?

Design Representative: Scott Gardner, mgardner@ppplant.msu.edu, 517-432-0780

Construction Representative: Andy Linebaugh, alinebau@ppplant.msu.edu, 517-432-7103
Seating in Fairchild Theatre
Design scope

- Acoustical improvements
- Theatrical systems and infrastructure improvements
- Mechanical system upgrade
- Accessibility improvements
- Fire alarm system replacement for entire facility
- Acoustical banners
- Orchestra pit lift
- Orchestra shell towers
- Lighting catwalks and theatrical lighting distribution
- Acoustical banners
- Accessibility – exterior entry, elevator, toilets
Auditorium – Alterations to Fairchild Theatre
February 2013
Barrier-free access
Construcion Home Projects Detours Listserv Construction Junctions

MSU Construction
Physical Plant Home

Auditorium - Alterations to Fairchild Theatre

In-Planning/Design
June 2011 - June 2012

Description: The College of Music has had a longstanding need for an additional and acoustically appropriate venue to accommodate its numerous rehearsals, performances, classes and musical productions. 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 of an orchestra pit and proper acoustics. Alterations to Fairchild Theatre and related spaces will enable improved and full use of this currently underutilized facility.

This project also includes the relocation of the Department of Theatre's scene shop, which is necessitated by the renovations to Fairchild Theatre. Programatically, it will allow for the consolidation of the Music and Theatre scene shop needs and provide improvement of the scene shop working environment.

This project is anticipated to include:
- 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 elevator

Questions, comments, concerns?
Construction Representative: Todd Wilson, tdwilson@ppplant.msu.edu, 517-432-4355
MSU Union Project Review
February 2013

MSU Union Renovations
Project Review

PHYSICAL PLANT DIVISION
Help us keep campus safer this winter!

- To request services or to report dangerous spots on campus, call 353-1760.
- For more information on snow removal, visit www.pp.msu.edu and click on “campus snow plan.”
- E-mail feedback, suggestions and comments to snowplan@pplant.msu.edu.
- To let us know how we’re doing in general, visit www.pp.msu.edu and click on “Contact Us.”
Your help is welcome and appreciated!

WALKWAY ICE MELT

Please help us keep campus surfaces clear of snow and ice this winter. If you see an icy area, please sprinkle it with ice-melt compound.

The ice-melt compound is an environmentally friendly alternative to salt that is provided by your Physical Plant partners in snow removal:
• Building Services–Custodial Services
• Landscape Services

Questions or comments?
Call 517-353-1760

Thank you for your help!
MiAPPA Winter Conference 2013

MSU welcomes the Michigan Association of Physical Plant Administrators to the 2013 Winter Conference

The MiAPPA Winter Conference 2013 will be held Tuesday, Feb. 12, to Wednesday, Feb. 13, 2013.

Registration is now open.

Sponsorship opportunities are now available. Please click the Sponsorship link for more information.

The Michigan Colleges and Universities Energy Managers Meeting will take place Monday, Feb. 11, 2013.

Both events will be held at the Kellogg Hotel and Conference Center on the campus of Michigan State University.

For more information, contact Anita Eberhard:
Phone: 517-432-0516
E-mail: ameberha@pplant.msu.edu

Additional information will be posted as it becomes available.

For more information about the Michigan Association of Physical Plant Administrators or to be added to the MiAPPA mailing list, visit the MiAPPA website.
Stay connected via social media

For updates on all things Physical Plant 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.
BEFORE YOU GO, VISIT THE CONSTRUCTION ‘SITE’:

CONSTRUCTION.MSU.EDU

Key features:

• Construction Projects
  – Project info
  – Contact information
• Construction Detours
• Construction Junctions
• Construction Listserv
SURVEY ALERT!

Please fill one out before you leave if you did not do so already

- We have recently revamped our surveys in an effort to better understand your experience at Construction Junction.
- 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
in Room 112 at Brody Hall

• March 14
• April 11
• May 9

Please sign in and take a survey before you go!