MSU Steam Distribution – Age and Type of System

[Map showing steam distribution system with age and type indicators]

- Steam Distribution – West Circle Steam Loop - 2012
Arch Tunnels

- Vault 92 to Vault 93 (fig. 1.7)
  - Small tunnel 4’ wide x 5’ tall
  - Structural failure under road
    - No means of predicting performance
  - 1’ to 2’ cover over tunnel

Crack in North wall
Crack in South Wall
**Arch Tunnels**

- **Vault 93 to IM Circle** *(fig. 1.8)*
  - Deteriorating concrete
    - 25% section loss
  - 50% stanchions failed
    - Base rusted out, loose at ceiling
Steam Distribution – West Circle Steam Loop - 2012

PHASE 1: FEB - APRIL 20
15 WEEKS
WORK AREA

- No roads closed
- Some on street parking closed
- One lane of West Circle closed for steam loop construction
- Site work shut down during exam week, April 22 - May 7

PEDESTRIAN ROUTES

AREA 1: CONSTRUCTION DURING SPRING BREAK
Steam Distribution – West Circle Steam Loop - 2012

- COWLES HOUSE ENTRANCE DRIVE CLOSED FOR RECONSTRUCTION OF WEST CIRCLE DRIVE, FROM MAY 7 - JUNE 22

- ONE LANE TEMPORARY ACCESS DRIVE FROM MUSIC PARKING LOT TO COWLES PARKING LOT (MAY 7 - JUNE 22)

- DETOUR SIGN

- TEMPORARY ASPHALT PAVING

- REMOVE & REPLACE CURB AND GUTTER

- NEW DETOUR SIGN

- TEMP ACCESS DRIVE

- EXISTING CONCRETE SIDEWALK

- EXISTING SIDEWALK RAMP

- MUSIC PRACTICE BLDG
Steam Distribution – West Circle Steam Loop - 2012

Symbol Legend:
- Red: Buildings directly impacted during 2012 construction
- Yellow: Minor building impact during 2012 construction
- Green: Buildings not impacted by 2012 construction

DRAFT
Communication materials

Internal display boards
Communication materials

Michigan State University uses steam to heat campus buildings. Some of the steam tunnels, on MSU’s historic north campus, are more than 100 years old and in need of repair to avoid failures of steam delivery to north campus buildings. This West Circle Steam Loop project will address all of those needed repairs and ensure reliable steam service to this part of campus.

The project will occur in four segments spanning the summers of 2012 to 2015.

The 2012 segment of the project will include four phases. The 2012 phases will replace the steam distribution loop around West Circle Drive and repair and replace steam piping, supports, and equipment within existing steam tunnels.

For the most updated information and detour maps, visit: construction.msu.edu/westcircle2012

Construction site sign
Project website

www.construction.msu.edu/westcircle2012

• Presentations
• Upcoming meetings
• FAQs
• Detour maps
More public meetings planned:

- **April 12**: 8:30 a.m., James B. Henry Center (Construction Junction)
- **May 10**: 8:30 a.m., B122 Wells Hall (Construction Junction)
- **June 14**: 10: 8:30 a.m., 1415 Biomedical and Physical Sciences Building (Construction Junction)
- **July 12**: 8:30 a.m., 1415 Biomedical and Physical Sciences Building (Construction Junction)
- **Aug. 9**: 8:30 a.m., 1415 Biomedical and Physical Sciences Building (Construction Junction)
Project contacts

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Additional Project Slides
Steam Distribution – West Circle Steam Loop - 2012
Looking northeast at Morrill Hall; applying waterproofing to new steam vault
Looking west down West Circle; working inside new steam vault
Looking northwest to Landon Hall; steam vault work
Looking north toward Yakeley Hall; prepping for pour of steam vault’s base slab
Looking south toward I.M. Circle at future steam vault
Looking southwest toward Old College Field; view of tunnel section
Access point for crane to insert sections of pipe
Looking northwest toward Hannah Administration Building; new duct bank being installed.
Looking east toward Bessey Hall; duct bank work