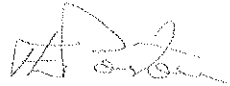


**MICHIGAN STATE**  
**UNIVERSITY**

August 31, 2011

**MEMORANDUM**

**To:** Trustee Finance Committee

**From:** Fred L. Poston 

**Subject:** **Authorization to Plan**  
Steam Distribution - West Circle Steam Loop

**RECOMMENDATION**

BE IT RESOLVED that the Trustee Finance Committee recommends that the Board of Trustees authorize the Administration to plan for the project entitled Steam Distribution - West Circle Steam Loop.

**BACKGROUND**

**Program Need:**

The north campus arch-style steam tunnels are 87-102 years old and have significantly deteriorated. The structural anchors, pipe supports, and steam equipment within these tunnels are also severely deteriorated and require replacement or repair for safe and reliable operation of the steam distribution system.

**General Description of the Project:**

This project is the first phase of a four-phase program to replace the deteriorating north campus arch steam tunnels, and is anticipated to include installation of a new steam distribution loop around West Circle (from Landon Hall moving clockwise to a point east of Human Ecology). Repair and replacement of steam piping, supports, and equipment within some existing steam tunnels will also be included. This will increase the reliability of the steam system and provide a mechanism to remove arch steam tunnel segments with minimum impact to campus building operations. During this construction, all the buildings in the zone of influence will be converted to high-pressure steam and pressure-condensate return lines, improving energy efficiency. The deteriorated cast-iron water main will be replaced to increase fire-flow capacity and reliability. Additional communication and electrical duct will be installed according to master plans. West Circle Drive will be replaced with two traffic lanes and one bike lane; providing appropriate vehicular, pedestrian, and bicyclist safety improvements.



OFFICE OF THE  
VICE PRESIDENT FOR  
FINANCE AND  
OPERATIONS

Fred L. Poston  
Vice President and  
Treasurer

Michigan State University  
412 Administration Building  
East Lansing, Michigan  
48824-1046

Phone 517.355.5014  
Fax 517.353.6772  
[www.vpfo.msu.edu](http://www.vpfo.msu.edu)

The project is located on north campus, along West Circle Drive, between Beal Street and East Circle Drive (Eustace-Cole Hall) in the north academic district. This is a Just-In-Time maintenance project and 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.

**Communication Plan:**

During the planning phase, the campus community will be given opportunities to provide feedback on the project as it is being designed. Input from the project planning team will be solicited during the design phase.

**Preliminary Project Cost Information:**

Based on cost experience for similar projects and current pricing information, the preliminary project cost estimate is \$18,500,000. This estimate may change as planning progresses and the project scope is further defined.

The source of funds for this project is expected to be a combination of the General Fund - Just-In-Time and tax-exempt financings with debt repayment from the General Fund.

cc: D. Brower, R. Flinn, J. Kacos, G. Klein, B. Kranz, K. Lindahl, M. McCabe, J. Mumma, R. Nestle, D. Quinney, L. Adams, K. Neils

CP11159

# Authorization to Plan Steam Distribution – West Circle Steam Loop

Area of work

- North Academic District
- Central Academic District
- South Academic District
- Residential District
- Natural Areas District
- Athletic and Recreation District
- Agriculture District
- Service District

