

**MICHIGAN STATE**  
**U N I V E R S I T Y**

January 16, 2013

**MEMORANDUM**

**To:** Trustee Finance Committee

**From:** Ronald T. Flinn *RTF*  
Vice President for Strategic Infrastructure Planning and Facilities

**Subject:** **Authorization to Plan**  
North Campus Infrastructure Improvements -  
West Circle Drive - 2015

**RECOMMENDATION**

BE IT RESOLVED that the Trustee Finance Committee recommends that the Board of Trustees authorize the Administration to plan for the project entitled North Campus Infrastructure Improvements - West Circle Drive - 2015.



**BACKGROUND**  
**Program Need:**

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.

**General Description of the Project:**

This project is the fourth of a four-phase program, and is anticipated to include replacing the deteriorating north campus steam tunnels and building service leads; increase the steam distribution mains to the region; increase steam line capacity and convert the condensate return from a vacuum system to a pressure return; upgrade the steam service to all buildings in the project area; and remove the vacuum return system from the north campus substation.

OFFICE OF THE  
VICE PRESIDENT FOR  
FINANCE AND  
OPERATIONS

Michigan State University  
Hannah Administration Building  
426 Auditorium Road, Room 412  
East Lansing, Michigan  
48824

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

The project will also include water service in the area, install additional communication and electrical ducts, and reconstruct a segment of West Circle Drive in accordance with the campus master plan, providing appropriate vehicular, pedestrian, and bicyclist safety improvements.

This project is centered along West Circle Drive from east of the Library to the North Campus Substation, immediately south of intersection with Auditorium Road. This is a Just-In-Time maintenance project and is consistent with the Campus Master Plan.

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 \$9,500,000. This estimate may change as planning progresses and the project scope is further defined.

The source of funds for the project is expected to be a combination of university utility and infrastructure funds and tax-exempt financing with debt repayment from utility and infrastructure reserve accounts.

cc: R. Flinn, V. Gore, M. Haas, J. Kacos, G. Klein, B. Kranz, B. Latta,  
M. McCabe, J. Mumma, R. Nestle, D. Quinney, L. Adams, K. Neils

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