

All Agency Project Request

2011 - 2013 Biennium

<u>Agency</u>	<u>Institution</u>	<u>Building No.</u>	<u>Building Name</u>
University of Wisconsin	Oshkosh	285-0F-9924	Utility - Site Steam & Condensate

<u>Project No.</u>	12E1M	<u>Project Title</u>	Pits A9c-H7 Steam Cond Reloc
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Project Intent

This project relocates a concrete box conduit containing steam and condensate return lines which serve as a backup steam loop to all buildings on the southern portion of the UW-Oshkosh campus. This will eliminate a steam conduit ground water flooding issue and allow this line to be returned to service.

Project Description

Project work includes rerouting ~850 LF of concrete box conduit containing 8-inch high pressure steam and 4-inch condensate piping from steam Pit H7, located at the northwest corner of the Campus Parking Structure, south to Pit A9c, located along Osceola northeast of the intersection of Pearl Street and Osceola Street. The box conduit will be routed from Pit H7 south and east around the perimeter of the parking structure and then south along the west side of Osceola Street to Pit 2. The steam conduit between Pits A9a and H7 containing 4-inch steam and 2-inch condensate lines will be replaced by a new conduit containing 8-inch steam and 4-inch conduit lines. Piping, valves, and expansion joints in the pits will be replaced as needed. ~350 LF of steam conduit between Pits A9a and H7 will be filled with flowable fill and abandoned in place. Project work also includes site excavation, storm water best management practices, construction of concrete box conduit, installation of new steam and condensate return lines, installation of pipe insulation, backfill of excavation, and site restoration. The consultant will study the option to route the steam and condensate lines through the parking structure in lieu of placement in buried box conduit around the structure.

Project Justification

The steam box conduit system located along High Avenue between Kolf Physical Education and Gruenhagen Residence Hall has experienced problems since its original installation in 2004. In particular, the portion of conduit located underneath Osceola Street has experienced significant ground water infiltration. The sump pump in Pit A9a located at the corner of Osceola Street and High Avenue runs almost continuously. The concrete walls are severely cracked and deteriorated from the continuous flow of ground water into the pit and their integrity is now in question.

The campus has experienced a series of flood events, causing extensive damage in this section of the steam conduit system. The pipe insulation has been water damaged and fallen off. Isolation valves were installed on this section of piping to prevent the potential of thermal shock during flooding events. This section of the steam loop is now isolated from the remainder of the steam distribution system.

Relocation of this steam conduit can occur at a higher elevation to avoid ground water infiltration issues. Re-establishing the steam loop will allow steam to be back-fed to critical buildings should a failure occur in either the steam or condensate piping systems.

A/E Consultant Requirements

Consultants should have specific expertise and experience in the design and coordination of site mechanical utilities for institutional environments, including underground steam and condensate pipes in a box conduit system, as part of a design team. Work includes site surveys, acquiring field data, and verifying as-built conditions to assure accurate development of design and bidding documents, and production of necessary design and bidding documents. Consultants should indicate specific projects from past experience (including size, cost, and completion date) in their letter of interest and when known, include proposed consulting partners and specialty consultants.

A/E Selection Required?

Commissioning

- Level 1
 Level 2

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2011 - 2013 Biennium

Project Budget

Construction Cost:	\$1,247,000	
Haz Mats:	\$0	
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Construction Total:	\$1,247,000	
Contingency: 15%	\$186,800	
A/E Design Fees: 8%	\$99,800	
DFD Mgmt Fees: 4%	\$57,400	
Equipment/Other:	\$0	
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	\$1,591,000	

Funding Source

GFSB - Utilities Repair & Renovation [Z080]	\$843,200
PRSB - Utilities Repair & Renovation [T570]	\$747,800
Agency/Institution Cash []	\$0
Gifts	\$0
Grants	\$0
Building Trust Funds [BTF]	\$0
Other Funding Source	\$0
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	\$1,591,000

Project Schedule

SBC Approval: 06/2012
 A/E Selection: 07/2012
 Bid Opening: 04/2013
 Construction Start: 06/2013
 Substantial Completion: 10/2013
 Project Close Out: 06/2014

Project Contact

Contact Name: Steven A. Arndt
 Email: <arndt@uwosh.edu>
 Telephone No.: (920) 424-3102 x

Project Scope Consideration Checklist

- | | <u>Y</u> | <u>N</u> |
|--|-------------------------------------|-------------------------------------|
| 1. Will the building or area impacted by the project be occupied during construction? If yes, explain how the occupants will be accommodated during construction.

<i>All project work will be coordinated through campus physical plant staff to minimize disruptions to daily operations and activities.</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Is the project an extension of another authorized project? If so, provide the project #... | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Are hazardous materials involved? If yes, what materials are involved and how will they be handled?

<i>Hazardous materials abatement is not anticipated on this project. Comprehensive building survey inventory data is not available on Wisconsin's Asbestos & Lead Management System (WALMS) <http://walms.doa.state.wi.us/>.</i> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. Will the project impact the utility systems in the building and cause disruptions? If yes, to what extent?

<i>All project work will be coordinated through campus physical plant staff to minimize disruptions to daily operations and activities.</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5. Will the project impact the heating plant, primary electrical system, or utility capacities supplying the building? If yes, to what extent? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6. Are other projects or work occurring within this project's work area? If yes, provide the project # and/or description of the other work in the project scope. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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7. Have you identified the WEPA designation of the project...Type I, Type II, or Type III?
Type III.
8. Is the facility listed on a historic register (federal or state), or is the facility listed by the Wisconsin Historical Society as a building of potential historic significance? If yes, describe here.
9. Are there any other issues affecting the cost or status of this project?
10. Will the construction work be limited to a particular season or window of opportunity? If yes, explain the limitations and provide proposed solution.
Project work is seasonal. Preferred project work schedule should be limited to late spring, summer, and/or early fall months if possible.
11. Will the project improve, decrease, or increase the function and costs of facilities operational and maintenance budget and the work load? If yes, to what extent?
Completion of this project will decrease operational maintenance costs.
12. Are there known code or health and safety concerns? If yes, identify and indicate if the correction or compliance measure was included in the budget estimate, or indicate plans for correcting the issue(s).
13. Are there potential energy or water usages reduction grants, rebates, or incentives for which the project may qualify (i.e. Focus on Energy <<http://www.focusonenergy.com>> or the local utility provider)? If yes, describe here.
14. If this is an energy project, indicate and describe the simple payback on state funding sources in years and the expected energy reduction here.