

# All Agency Project Request

2013 - 2015 Biennium

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<b><u>Agency</u></b>	<b><u>Institution</u></b>	<b><u>Building No.</u></b>	<b><u>Building Name</u></b>
University of Wisconsin	Madison	285-0A-9920	Utility - Site Mechanical

<b><u>Project No.</u></b>	13J2X	<b><u>Project Title</u></b>	Lathrop Dr/Bascom Hill Utilities Impr
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## **Project Intent**

This project provides investigation and research, and pre-design services to repair or replace civil, thermal and electric utilities in the Lathrop Drive and Bascom Hill areas. For all the utilities in the area, the investigation and pre-design services will identify location, age and condition, develop preliminary design documents and budget estimates, and recommended project phasing and implementation schedules.

## **Project Description**

The future construction project will reconstruct and alter existing utility corridors located between Charter Street and Music Hall along Lathrop Drive, and between Bascom Hall and Park Street in the Bascom Hill area. That project will remove the primary electric and signal communication utilities from an existing steam tunnel and construct a concrete ductbank with new electric and communication cables located within. The chilled water lines, domestic water lines, storm sewers, and sanitary sewers will also be upgraded and replaced. The steam tunnel along Lathrop Drive will be excavated and exposed to structurally repair portions and waterproof the exterior of the tunnel. The steam tunnel between Music Hall and Law Building will be replaced from the Lathrop steam tunnel to the north sidewalk of Bascom Hill. Upon completion of the utility work, Lathrop Drive will be repaved and the retaining wall reconstructed. Restoration will also include new curb, gutter, sidewalks, terraces, landscaping features, and a new handicapped accessible parking area.

## **Project Justification**

The chilled water lines in this area were manufactured of cast iron, are brittle, and are of the age that removal and replacement is necessary. These lines have failed at least five times in the last decade, including two failures near Lathrop Hall that have damaged the Botany Gardens just south of Lathrop Drive. The domestic water, storm sewer, and sanitary sewer piping in this area are at least 50 years old with many piping segments more than 100 years old.

The steam tunnel along Lathrop Drive requires intermittent wall and roof repairs and the entire tunnel needs to be waterproofed to provide better safety protection and increase the longevity of the already more than 100 year old utility. The steam tunnel between Music Hall and Law Building is becoming a safety concern because it is one of the smallest tunnels on campus, it is both difficult and dangerous to access.

The primary electric and signal communication ductbanks provide separation of the electric and communication cables from high pressure steam, condensate, and compressed air piping in the existing tunnels. This reduces the danger caused by a major steam leak interrupting campus power supply or communications and extends the life expectancy of the utilities housed within it.

The site improvements range from a failing retaining wall to a failed access road structure and a need to provide handicapped accessible parking stalls in this area.

## **A/E Consultant Requirements**

A/E Selection Required?

Consultants should have specific expertise and experience in the design and coordination of underground utility systems 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.

The consultant will verify project scope and budget estimates, and recommend whether one or

## **Commissioning**

- Level 1  
 Level 2

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multiple phased projects should be considered to complete the specified project intent. The consultant will prepare a pre-design document to establish appropriate project scopes, budgets, and schedules prior to the university seeking authority to construct from the Board of Regents and State Building Commission.

<b>Project Budget</b>	<b>Funding Source</b>	<b>Total</b>
Construction Cost:	GFSB - <input type="checkbox"/>	\$0
Haz Mats:	PRSB - <input type="checkbox"/>	\$0
Construction Total:	Agency/Institution Cash [AGF0]	\$287,600
Contingency: 15%	Gifts	\$0
A/E Design Fees: 8%	Grants	\$0
DFD Mgmt Fees: 4%	Building Trust Funds [BTF]	\$0
Equipment/Other:	Other Funding Source	\$0
<b>\$287,600</b>		<b>\$287,600</b>

### **Project Schedule**

SBC Approval: 07/2015  
 A/E Selection: 01/2014  
 Bid Opening: 03/2016  
 Construction Start: 05/2016  
 Substantial Completion: 09/2018  
 Project Close Out: 12/2018

### **Project Contact**

Contact Name: Jeffrey A. Pollei, P.E.  
 Email: <jpollei@fpm.wisc.edu>  
 Telephone No.: (608) 890-1067 x

### **Project Scope Consideration Checklist**

- |   | <b><u>Y</u></b>                     | <b><u>N</u></b>                     |
|---|-------------------------------------|-------------------------------------|
| 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.<br><br><i>All project work will be coordinated through campus physical plant staff to minimize disruptions to daily operations and activities.</i>  | <input type="checkbox"/>            | <input checked="" 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?<br><br><i>Required hazardous materials abatement has been included in the estimated project schedule and project budget. Comprehensive building survey inventory data is not available on Wisconsin's Asbestos &amp; Lead Management System (WALMS) &lt;<a href="http://walms.doa.state.wi.us/">http://walms.doa.state.wi.us/</a>&gt;.</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 4. Will the project impact the utility systems in the building and cause disruptions? If yes, to what extent?   | <input type="checkbox"/>            | <input checked="" 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"/> |

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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.
7. Have you identified the WEPA designation of the project...Type I, Type II, or Type III?    
Type II.
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.    
No historic building exteriors will be disturbed but utility work pre-design will be completed in the historic Bascom district.
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.