

All Agency Project Request

2009 - 2011 Biennium

<u>Agency</u>	<u>Institution</u>	<u>Building No.</u>	<u>Building Name</u>
University of Wisconsin	Whitewater	285-0N-0018	PERKINS STADIUM

<u>Project No.</u>	11C2K	<u>Project Title</u>	Perkins Stadium Lighting Repl
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Project Intent

This project replaces the structurally compromised field lighting system with a new system that is more energy efficient, easier to maintain, and provides adequate illumination levels on the football field.

Project Description

Project work includes replacing four (4) 100-foot light poles, one-hundred twenty-eight (128) 1,500 watt metal halide fixtures, the associated underground electrical system, and lighting controls. The existing pole bases will be removed and new pole bases constructed. The new lighting system will provide a minimum of 75 foot-candles on the playing field as recommended by the Illuminating Engineering Society of North America guidelines. Various light pole layouts, pole heights, and light fixture options will be studied to obtain an optimum system considering existing site constraints and possible stadium expansion. The new system design will provide required illumination with minimum energy demand while minimizing light trespass and light pollution.

Project Justification

Perkins Stadium was constructed in 1970 and the lighting system is original to the facility. A light pole at the southeast side of the football field recently fell during a storm. A structural consultant was commissioned to study the condition of the light poles. The consultant utilized visual and ultra-sonic methods to assess the condition of the poles and concluded that there are cracks in welds where the pole cylinders meet the base plates, there are visual cracks in seam welds on some of the poles, and some of the anchor bolts are cracking in the area where the poles are fastened to the concrete bases. They further observed that on the failed pole, all four anchor bolts were sheered off. These poles are structurally compromised, present a significant danger, and must be replaced. These poles are scheduled for immediate removal under another contract and portable field lighting equipment will be rented for scheduled events until the new lighting system is installed.

The 41-year-old lighting system is obsolete and energy wasteful. The new lighting system will provide better quality illumination while minimizing energy use, light trespass, and light pollution. Based on similar projects the energy savings could be as much as 45%. Insurance will cover the replacement cost of the damaged pole, which is approximately 25% of the project cost.

A/E Consultant Requirements

A/E Selection Required?

Consultant should have specific expertise and experience in the design and coordination of stadium lighting projects. 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.

Commissioning

- Level 1
- Level 2

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Project Budget

Construction Cost:		\$416,900	
Haz Mats:		\$0	
Construction Total:		\$416,900	
Contingency: 15%		\$62,500	
A/E Design Fees: 8%		\$33,400	
DFD Mgmt Fees: 4%		\$19,200	
Equipment/Other:		\$0	
		\$532,000	

Funding Source

GFSB - []	\$0
PRSB - Utilities Repair & Renovation [T570]	\$405,000
Agency/Institution Cash [AGF0]	\$127,000
Gifts	\$0
Grants	\$0
Building Trust Funds [BTF]	\$0
Other Funding Source	\$0
	\$532,000

Project Schedule

SBC Approval: 04/2011
 A/E Selection: 05/2011
 Bid Opening: 07/2011
 Construction Start: 08/2011
 Substantial Completion: 10/2011
 Project Close Out: 01/2012

Project Contact

Contact Name: David R. Dorgan
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 Telephone No.: (262) 472-6729 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.

All project work will be coordinated through campus physical plant staff to minimize disruptions to daily operations and activities. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Is the project an extension of another authorized project? If so, provide the project #...
A small project has also been established to start consultant design activity (also 11C2K). | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Are hazardous materials involved? If yes, what materials are involved and how will they be handled?

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/ >. | <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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Will the project impact on the utility capacities supplying the building? If yes, to what extent? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6. Will the project impact the heating plant or the primary electrical system supplying the campus or institution? If yes, to what extent? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 7. Have you identified the WEPA designation of the project...Type I, Type II, or Type III?
Type III. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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8. Is the project affected by historic status?
9. Are there any other issues affecting the cost or status of this project?
This schedule is tentative based on similar projects. Every effort should be made to expedite it to avoid equipment rental.
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.