

All Agency Project Request

2011 - 2013 Biennium

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| <u>Agency</u> | <u>Institution</u> | <u>Building No.</u> | <u>Building Name</u> |
| University of Wisconsin | Stevens Point | 285-0K-9923 | Utility - Site Storm Water |

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|---------------------------|-------|-----------------------------|----------------------------|
| <u>Project No.</u> | 11L1Y | <u>Project Title</u> | DeBot Storm Water Sys Renv |
|---------------------------|-------|-----------------------------|----------------------------|

Project Intent

This project provides pre-design and design services to renovate the storm water system serving the DeBot Dining Center district to resolve flooding problems in the basements of the dining hall and four adjacent student residence halls. Storm water run off will be directed away from the municipal storm sewer system, which is undersized for large storm events.

Project Description

Project work includes redirecting the storm water run off to new 10-inch and 12-inch diameter storm pipes connecting to an adjoining practice field drainage system and leading to a 6-foot diameter storm culvert. Five catch basins will be added on the northeast side of DeBot Dining Center and one catch basin on the south side. Grades adjacent to the northeast and south side storm basins will be revised to improve surface drainage away from the building. Pedestrian walkways on the south side will be re-aligned. A new 12-inch storm sewer will be routed south at the DeBot Dining Center loading docks and then east to the new south side catch basin. A new check valve will be installed in the 10-inch lateral to the street to serve as an alternate route, but not allow backup from the street to the loading dock. The loading dock drives will be regraded away from the building and repaved. To increase the drainage capacity for the residence halls located to the north, a 10-inch storm line will be installed to drain east to the practice field.

Some interior storm pipes within the DeBot Dining Center will need to be re-routed and re-pitched to connect to the new north-south sewer line. The roof drain system where the lines merge under the building will be rerouted to a new 10-inch line which will ultimately connect to the new 12-inch storm drain. Storm water connections to the foundation drain tile system will be blocked. A cracked slab in DeBot Dining Center Room 68 will be replaced on the lower level of building and a sump pump will be provided if determined as needed once the slab is removed. Roof scuppers and external drain leaders will be added to the four main DeBot roofs to prevent excessive build-up of water. A gooseneck exterior site drain will be added to direct heating/venting collected condensate out of the building. A sump pump will be added to signal Pit 53 southeast of DeBot.

Project Justification

Flooding occurred in the lower levels of the DeBot Dining Center and four adjacent residence halls on two occasions during the past year. An engineering consultant performed a forensic investigation and provided the conceptual design to reroute storm water as the basis for this request. It is believed that the municipal storm water system lacks capacity during heavy storms. Rerouting the storm water laterals is considered the best way to prevent future flooding of buildings. A large area north and east of the DeBot Dining Center has no natural drainage outlet, and the low points of this area are next to the building. A pedestrian bridge drains water into a paved plaza and back into the low area. Large quantities of roof water were observed flowing over the DeBot Dining Center roof edge and onto the bridge area during a major July 2011 rain storm. On the south side some pedestrian walkways constructed prior to the DeBot Dining Center addition are regularly under water and cause problems during winter.

The DeBot Dining Center loading dock is lower than all adjacent areas, including the street. When the street storm lines are full, water collects at this dock. The storm water in this district will be re-directed to playing fields to the east so that if the capacity of the city storm system is exceeded, storm water will flow harmlessly onto these fields instead of flooding interior rooms.

The DeBot Dining Center foundation drains need to be separated from the roof drain system so that if the roof drain system does back-up, storm water does not back up into the foundation drains and seep up on to the floors. The lower level of DeBot Dining Center experienced extensive water damage in July 2011 because of water seeping through floor slab cracks, and has caused slab heaving. The slab leakage is presumed to be the main source of interior flooding. Water backed up into heating/venting condensate drains at three locations, including one in the ceiling of the upper level. Ceiling tile was damaged.

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A/E Consultant Requirements

A/E Selection Required?

Consultants should have specific expertise and experience in the design and coordination of storm water management 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 modifications as required to complete the specified project intent. The consultant will prepare a pre-design document to establish an appropriate project scope, budget, and schedule prior to the university seeking authority to construct from the Board of Regents and State Building Commission.

Commissioning

- Level 1
- Level 2

Project Budget

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|---------------------|------------------|--|
| Construction Cost: | \$385,000 | |
| Haz Mats: | \$0 | |
| | | |
| Construction Total: | \$385,000 | |
| Contingency: 15% | \$57,800 | |
| A/E Design Fees: 8% | \$30,800 | |
| DFD Mgmt Fees: 4% | \$17,700 | |
| Equipment/Other: | \$0 | |
| | | |
| | \$491,300 | |

Funding Source

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|--|------------------|
| GFSB - Utilities Repair & Renovation [Z080] | \$289,900 |
| PRSB - Utilities Repair & Renovation [T570] | \$201,400 |
| Agency/Institution Cash <input type="checkbox"/> | \$0 |
| Gifts | \$0 |
| Grants | \$0 |
| Building Trust Funds [BTF] | \$0 |
| Other Funding Source | \$0 |
| | |
| | \$491,300 |

Project Schedule

- SBC Approval: 05/2012
- A/E Selection: 01/2012
- Bid Opening: 06/2012
- Construction Start: 07/2012
- Substantial Completion: 10/2012
- Project Close Out: 06/2013

Project Contact

- Contact Name: Paul Hasler
- Email: <paul.hasler@uwsp.edu>
- Telephone No.: (715) 346-4275 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</i> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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data is available on Wisconsin's Asbestos & Lead Management System (WALMS)
<<http://walms.doa.state.wi.us/>>.

4. Will the project impact the utility systems in the building and cause disruptions? If yes, to what extent?
5. Will the project impact the heating plant, primary electrical system, or utility capacities supplying the building? If yes, to what extent?
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.
[11A2C Burroughs-Knutzen North DeBot Residence Halls Renovation](#)
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 summer session 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?
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.

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