

SOUTH DAKOTA BOARD OF REGENTS

Budget and Finance
Consent

AGENDA ITEM: 4 – I

DATE: December 6-8, 2016

SUBJECT: FY18 HEFF Maintenance and Repair Projects

The FY18 HEFF M&R projects will not be approved until the March 2017 BOR meeting when we know what the allocation will be. It would change if we received funds to freeze or slow our tuition increase. The campuses would like to plan some of the FY18 projects over the coming months and, therefore, have asked for approval of the following FY18 HEFF M&R projects.

South Dakota School of Mines and Technology requests approval of the following items:

McLaury Building – \$390,000 of FY18 HEFF funds are requested to supplement funding to complete Phase I of the McLaury building renovation. At an estimated total cost of \$1,481,099 for Phase I includes building envelope work including windows, tuck pointing, foundation corrections, elevator addition, and ADA bathroom renovations.

O’Harra Stadium – \$200,000 of FY18 HEFF funds are needed for the construction of drainage improvements that include the addition of inlets, pavement/concrete work, grading work, and finishing work. The original work request in the amount of \$40,000 using FY16 HEFF money for planning and design was approved at the December 2014 Board meeting. Approval of this additional \$200,000 will allow SDSM&T to continue to move forward.

Various Buildings – \$150,000 of FY18 HEFF funds are needed to supplement previously approved funds to upgrade the pneumatic controls to digital controls in various buildings across campus. The total project cost is estimated at \$375,000.

South Dakota State University requests approval of the following items:

Berg Ag Hall – This request is for planning funds only in the amount of \$50,000 to replace and upgrade the motor control center within the mechanical/electrical room in Berg Ag Hall. This project would replace antiquated large disconnects, old panelboards, and motor control devices. The scope of the project will include expansion of the power capabilities of the building for future remodeling of the first and second floors of the building. This project will take eight to ten months for selection of designers, design, project planning, bidding, and scheduling. Approval of the

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DRAFT MOTION 20161206_4-I: I move to approve the institutional maintenance and repair projects for SDSM&T and SDSU as described in this document.

planning component will enable SDSU to bid in the winter of 2017 with construction starting early in 2018. The total value of the project will be approximately \$440,000 and will be planned by an electrical engineering consultant that is competitively selected. The project would be competitively bid and constructed by the lowest responsible bidder.

Sidewalk, Entryways and Equipment Pads – \$10,000 is requested to design for the general replacement of concrete sidewalks, entry paving, and equipment pads around the campus to be completed as soon as possible after the academic year concludes in May 2017. The new concrete will replace cracked and deteriorated concrete surfaces and concrete walks that are no longer handicapped accessible. The total value of this project will be limited to \$163,600. The project would be planned by engineering and maintenance staff of SDSU Facilities and Services. The project would be constructed by utilizing standing construction services for contract maintenance. Some work would be coordinated with other site improvements of the university.

Water Softener Replacement in Central Heating Plant – \$10,000 is requested to plan, design, and coordinate the replacement of water softener equipment in the Central Heating Plant. This equipment is essential to reduce mineral content of the water, and reduce corrosion of steam piping, boiler tubes, and pumps used for the campus steam and condensate utilities. Existing softeners are at or near their expected useful life. This project would be accomplished as preventative maintenance so new equipment could be brought on line prior to breakdown of existing equipment. This project would be constructed by a combination of competitive price proposals for equipment and/or utilization of standing mechanical services contracts. SDSU has mechanical engineering staff capable of completing the design work with knowledge of the existing systems.

Central Heating Plant Upgrades – \$10,000 is requested to plan, design, and coordinate construction for general repairs and equipment replacement within the Central Heating Plant. Repairs include, but are not limited to, boiler tube replacement, mix tank replacement, pump replacement with VFD pumps, and removal of obsolete coal handling equipment. These repairs would be accomplished as preventative maintenance by mechanical engineering staff of SDSU Facilities and Services. The project would be constructed by a combination of competitive price proposals for equipment and/or utilization of standing mechanical services contracts. SDSU staff may be utilized for demolition and removal of obsolete equipment.

Drainage and Upgrades to Central Heating Plant – Approval of \$30,000 for planning, designing, and coordinating site and drainage improvements around the Central Heating Plant is requested. This project will also replace the canopy, equipment shelter, and screen wall between the Central Heating Plant and the Central Chiller Plant. The work is necessitated by a current project to demolish the obsolete coal silos that are sandwiched between the buildings. The total value of this project will be approximately \$300,000. The project would be constructed by competitive price proposals for paving, site work, and utilities. The canopy would be constructed and coordinated separately. SDSU has engineering and landscape architecture staff capable of completing the design work with prior knowledge of the coal silo demolition work and existing tunnel and steam construction within the vicinity of this site.

Enrollment Services Center – In order to plan, design, and coordinate construction, SDSU requests \$15,000 be approved to reposition the existing chiller, or to tie this building to the central chilled water distribution system and make site modifications. The slab supporting the existing chiller is cracked and heaving which will affect the performance of the chiller. Approval at this time will enable the project to be constructed during the fall of 2017 or spring of 2018. The total value of the project will be approximately \$152,000. The project would be planned by architectural, engineering, and landscape architectural staff of SDSU Facilities and Services. The project would be constructed by maintenance contract personnel.

McFadden Northern Plains Biostress – \$50,000 is requested to plan, design, and coordinate the replacement of all pneumatic control devices with digital electronic controls that regulate or report operation of the heating, ventilation, and air handling equipment within the Northern Plains Biostress laboratory. The existing equipment is obsolete and does not allow temperature control and building system control to be as efficient as possible. This repair project was identified in a study of the mechanical systems of the building in 2014. The project scope will include replacement of selected mechanical equipment (pumps, valves, dampers, etc.) The total value of this project will be approximately \$480,000 and planned by a mechanical engineering consultant that is competitively selected and bid. This project will be designed and constructed in conjunction with a separate VAV unit replacement project.

McFadden Northern Plains Biostress – Approval for planning services in the amount of \$100,000 is requested so planning, design, and project coordination may occur to replace variable air volume (VAV) units and enable the project to be bid in the winter of 2017 and constructed early in 2018. This project will take a minimum of 10 months for selection of designers, design, project planning, bidding and scheduling. The total value of the project will be approximately \$935,000. The project is to replace all variable air volume units tied to the heating, ventilating, and air handling systems within the laboratory. The existing equipment is obsolete and is difficult to maintain. This project was identified in a study of the mechanical systems of the building in 2014 and is a repair project identified with the study. The project scope will include replacement of associated pneumatic controls with electronic controls. This project will be designed and constructed in conjunction with a separate controls upgrade project. The project would be planned by a mechanical engineering consultant that is competitively selected. The project would be competitively bid and constructed by the lowest responsible bidder.

South Dakota Art Museum – \$12,000 is requested for the planning of the replacement of the main exterior stairway to the SD Art Museum. The existing stairway is deteriorating in a number of locations and needs to be replaced for safety. The university anticipates that the stairway will be modified to allow exterior artwork and limited landscaping. Approval at this time will enable SDSU to commence construction as soon as possible after the academic year concludes in May 2017, when pedestrian traffic is reduced. The total value of this project will be limited to \$120,000. The project would be planned by engineering and landscaping staff of SDSU Facilities and Services. The project would be constructed by utilization of standing construction services for concrete maintenance or competitive bid proposals.