

Use and Finance Bi-Annual Reporting Form

Reporting Period: January 1 - June 30 2018

University/College: Michigan State University

Number of Project to Report: 17

Estimated Impact on Tuition and Fee Rates¹: \$0

¹This amount shall be calculated by dividing the amount of tuition revenue that is annually budgeted for the institution's share of a project's cost by the most recent fiscal year equated student count for the institution.

<p>1 WHARTON - RENOVATIONS AND GREAT HALL SEATING REPLACEMENT - CP16318 - The Wharton Center for Performing Arts, which includes the Cobb Great Hall and the Pasant Theatre, opened in 1982. It is the leading presenting venue among Big Ten institutions and has the largest programming schedule of any independent performing arts center affiliated with a university in the country. The seating in both the Cobb Great Hall (2,401 seats) and Pasant Theatre (585 seats) is original to the building, with the exception of component replacement parts installed in the Cobb Great Hall in 1996. Given their age, condition, and utilization in both halls, the seats are now in need of replacement. The project will include replacing seating in the Cobb Great Hall and Pasant Theatre. The Great Hall will add side-by-side companion seating to conform to current ADA standards.</p>	<p>Start Date: <u>May-18</u> Completion: <u>January-19</u></p>	<table border="1"> <tr><td>Property Acquisition</td><td></td></tr> <tr><td>Remodeling</td><td>\$1,359,500</td></tr> <tr><td>Additions</td><td>\$0</td></tr> <tr><td>Landscaping/Roads</td><td>\$0</td></tr> <tr><td>Equipment</td><td>\$2,000</td></tr> <tr><td>Other(Fees)</td><td>\$138,500</td></tr> <tr><td>Total:</td><td>\$1,500,000</td></tr> </table>	Property Acquisition		Remodeling	\$1,359,500	Additions	\$0	Landscaping/Roads	\$0	Equipment	\$2,000	Other(Fees)	\$138,500	Total:	\$1,500,000	<table border="1"> <tr><td>Tuition</td><td></td></tr> <tr><td>Millage</td><td></td></tr> <tr><td>Bond Proceeds</td><td></td></tr> <tr><td>Donations</td><td>\$1,500,000</td></tr> <tr><td>Federal</td><td></td></tr> <tr><td>Other</td><td></td></tr> <tr><td>Total:</td><td>\$1,500,000</td></tr> </table>	Tuition		Millage		Bond Proceeds		Donations	\$1,500,000	Federal		Other		Total:	\$1,500,000		
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<p>2 HUBBARD HALL - EXTERIOR MASONRY RESTORATION AND WINDOW REPLACEMENT - PHASE 3 - CP16226 - Hubbard Hall opened in 1966. It is the tallest residence hall on campus, standing at 12 floors in two separate buildings. A 2013 study of its structural condition revealed a number of issues that must be addressed to keep the building safe and functional. Hubbard Hall is Located west of Hagadorn Road in the residential district. This project, focusing on the west façade of the north tower, is the third of four phases to complete masonry repairs to the façade and removal and replacement of windows.</p>	<p>Start Date: <u>May-18</u> Completion: <u>August-18</u></p>	<table border="1"> <tr><td>Property Acquisition</td><td></td></tr> <tr><td>Remodeling</td><td>\$2,299,263</td></tr> <tr><td>Additions</td><td>\$0</td></tr> <tr><td>Landscaping/Roads</td><td>\$5,749</td></tr> <tr><td>Equipment</td><td>\$0</td></tr> <tr><td>Other(Fees)</td><td>\$194,988</td></tr> <tr><td>Total:</td><td>\$2,500,000</td></tr> </table>	Property Acquisition		Remodeling	\$2,299,263	Additions	\$0	Landscaping/Roads	\$5,749	Equipment	\$0	Other(Fees)	\$194,988	Total:	\$2,500,000	<table border="1"> <tr><td>Tuition</td><td></td></tr> <tr><td>Millage</td><td></td></tr> <tr><td>Bond Proceeds</td><td></td></tr> <tr><td>Donations</td><td></td></tr> <tr><td>Federal</td><td></td></tr> <tr><td>Other -MSU</td><td>\$2,500,000</td></tr> <tr><td>Residential & Hospitality Services</td><td></td></tr> <tr><td>Total:</td><td>\$2,500,000</td></tr> </table>	Tuition		Millage		Bond Proceeds		Donations		Federal		Other -MSU	\$2,500,000	Residential & Hospitality Services		Total:	\$2,500,000
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<p>3 JENISON FIELDHOUSE - RENOVATIONS - CP16103 - Jenison Field House , built in 1940, was the home of Spartan basketball until 1989. It has been the location of the main administrative and ticket offices of the Department of Intercollegiate Athletics, as well as home to the MSU volleyball, baseball, softball, cross country, track and field, rowing, women's gymnastics, soccer, and field hockey programs. While Jenison has a rich history, it no longer meets the needs of the Division I athletic programs. The programs in Jenison are operating in out-of-date facilities that compare poorly to those of other Big Ten institutions. Intercollegiate Athletics has already moved its ticketing offices and is in the process of moving its administrative offices to 1855 Place, creating more space for programs remaining in Jenison and an opportunity to improve and update the facilities there. Jenison Field House is on Kalamazoo Street in the athletic and recreation district. The project will also include new entrance doors and window replacement in the main building. Level two (lobby level) will be completely remodeled and allow for all coaching staff and associated student support staff to be on one floor. Renovations will include new office space; conference, collaboration, and work space; lobby and lounge areas; and restrooms. Renovations to level three will include two new single occupant accessible restrooms, an athletic team room, and a classroom which will replace one currently on the second floor.</p>	<p>Start Date: <u>February-18</u> Completion: <u>January-19</u></p>	<table border="1"> <tr><td>Property Acquisition</td><td></td></tr> <tr><td>Remodeling</td><td>\$4,918,513</td></tr> <tr><td>Additions</td><td>\$0</td></tr> <tr><td>Landscaping/Roads</td><td>\$10,000</td></tr> <tr><td>Equipment</td><td>\$805,544</td></tr> <tr><td>Other(Fees)</td><td>\$708,891</td></tr> <tr><td>Total:</td><td>\$6,442,948</td></tr> </table>	Property Acquisition		Remodeling	\$4,918,513	Additions	\$0	Landscaping/Roads	\$10,000	Equipment	\$805,544	Other(Fees)	\$708,891	Total:	\$6,442,948	<table border="1"> <tr><td>Tuition</td><td></td></tr> <tr><td>Millage</td><td></td></tr> <tr><td>Bond Proceeds</td><td></td></tr> <tr><td>Donations</td><td></td></tr> <tr><td>Federal</td><td></td></tr> <tr><td>Other -MSU</td><td>\$6,442,948</td></tr> <tr><td>Intercollegiate Athletics and Capital Renewal</td><td></td></tr> <tr><td>Total:</td><td>\$6,442,948</td></tr> </table>	Tuition		Millage		Bond Proceeds		Donations		Federal		Other -MSU	\$6,442,948	Intercollegiate Athletics and Capital Renewal		Total:	\$6,442,948
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<p>4 STUDENT SERVICES - REPLACE WINDOW WALL SYSTEM - CP16194 - The Student Services Building opened in 1957. Aging building systems need to be replaced, which will provide opportunities to improve building performance and increase energy efficiency. The project will include replacing all windows, the curtain wall, and air handler systems; addressing water infiltration in the basement; and making</p>	<p>Start Date: <u>April-18</u> Completion: <u>November-18</u></p>	<table border="1"> <tr><td>Property Acquisition</td><td></td></tr> <tr><td>Remodeling</td><td>\$4,802,490</td></tr> <tr><td>Additions</td><td>\$0</td></tr> <tr><td>Landscaping/Roads</td><td>\$45,000</td></tr> <tr><td>Equipment</td><td>\$8,000</td></tr> </table>	Property Acquisition		Remodeling	\$4,802,490	Additions	\$0	Landscaping/Roads	\$45,000	Equipment	\$8,000	<table border="1"> <tr><td>Tuition</td><td></td></tr> <tr><td>Millage</td><td></td></tr> <tr><td>Bond Proceeds</td><td></td></tr> <tr><td>Donations</td><td></td></tr> <tr><td>Federal</td><td></td></tr> </table>	Tuition		Millage		Bond Proceeds		Donations		Federal											
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other upgrades to the building envelope.		Other(Fees)	\$494,510	Other -MSU Capital Renewal	\$5,350,000
		Total:	\$5,350,000	Total:	\$5,350,000

5 COOK HALL - BUILDING RENOVATION AND ADDITION NO. 1 - CP16285 - Built in 1889, Cook Hall was named for Albert J. Cook in 1969. Cook Hall is one of six buildings constructed between 1888 and 1909 and is part of what is referred to as "Laboratory Row" on the northeast section of West Circle Drive. Laboratory Row is on the State Register of Historical Sites, and the renovations to Cook Hall are part of the plan to restore these buildings over time to preserve the University's heritage. The University completed exterior renovations to the building in 2010, but has not made significant updates to its interior and the building. Also, the building is not accessible. The renovations will improve the quality and functionality of office and support space for programs in the College of Agriculture and Natural Resources and make the building accessible. This project is a comprehensive renewal of Cook Hall while preserving its historical character and providing accessibility. The work scope is consistent with improvements previously completed at Eustace-Cole Hall, Marshall-Adams Hall, and Chittenden Hall. The renovations will include a three-story building addition to accommodate the installation of an elevator, new restrooms, interior modifications to support functional program needs, restoration of ceilings, walls, and woodwork, period lighting, heating, ventilation and air conditioning, and technological upgrades.	Start Date: February-18	Property Acquisition	Tuition
	Completion: September-18	Remodeling \$3,959,418 Additions \$0 Landscaping/Roads \$15,000 Equipment \$317,000 Other(Fees) \$508,582 Total: \$4,800,000	Millage Bond Proceeds Donations \$3,000,000 Federal Other -MSU Facility Reserve and Capital Renewal \$1,800,000 Total: \$4,800,000

6 ROADS - WILSON ROAD EXTENSION - CP11349 - The affected section of Wilson Road is east of the Veterinary Medical Center in the residential district. This project involves reconfiguration and reconstruction of Wilson Road and parking lots 30 and 32 (approximately 500 spaces), including a new intersection at Hagadorn Road that will be coordinated with railroad signals; improved water distribution to the region; vehicular, pedestrian, and bicycle safety improvements; and improved crossings in compliance with the ADA. The project will also add a traffic signal at Shaw Lane and the current terminus of Wilson Road, and the portion of Wilson Road from Fee Road to Shaw Lane will be renamed.	Start Date: March-18	Property Acquisition	Tuition
	Completion: November-18	Remodeling \$0 Additions \$0 Landscaping/Roads \$8,767,039 Equipment \$155,581 Other(Fees) \$2,177,380 Total: \$11,100,000	Millage Bond Proceeds Donations Federal Other -MDOT Grant, MSU Parking System, and Capital Renewal \$11,100,000 Total: \$11,100,000

7 FRIB - CRYOGENIC ASSEMBLY BUILDING - CP17240 - The Facility for Rare Isotope Beams (FRIB) is moving toward completion. Civil construction was substantially complete earlier this year, ahead of schedule, with the project now focused on installation of technical equipment. The U.S. Department of Energy (DOE) has indicated that it wants to begin providing operational funding in 2018, rather than in 2022 as originally anticipated. Given the success of the FRIB project, the DOE is interested in additional research opportunities at MSU. The facility needs additional space for research on equipment operating at liquid-helium temperature, including development, assembly, testing, and repair of superconducting FRIB beam line magnets and superconducting radio-frequency cryomodules. This function is currently in space designated as an experimental area for user operation. The FRIB is located on Shaw Lane in the central academic district. The project includes a new 14,000 square foot building for the assembly, testing, cooling, and repair of cryomodules and beam line magnets. It will include a 50-ton crane, 200 kW of power generation capacity, and a structural slab capable of supporting 1,100-ton magnets. The project will use lowconductivity cooling water, and include helium test dewars. The building will be located adjacent to the existing Super Conducting Radio Frequency Highbay due to availability of the utilities needed to facilitate cryogenic device construction, truck access, and maintenance and repair. A 16-ft wide concrete path will also be laid from Wilson Road to the Wharton Center loop that will allow for pedestrian and emergency vehicle traffic.	Start Date: March-18	Property Acquisition	Tuition
	Completion: July-19	Remodeling Additions \$9,300,000 Landscaping/Roads \$465,000 Equipment \$1,395,000 Other(Fees) \$1,240,000 Total: \$12,400,000	Millage Bond Proceeds - payment from indirect cost recoveries and facilities reserve \$12,400,000 Donations Federal Other -MSU facility (reserve) Total: \$12,400,000

8 IM SPORTS-WEST - REPLACEMENT OF INDOOR TURF SURFACE IN ROOM 161 - CP17167 - Intramural Recreative Sports West is located on Chestnut Road. This project includes removal of the existing artificial turf flooring system, installation of a new artificial turf flooring system, a lacrosse practice throwing wall and netting system, a motorized roll-up curtain	Start Date: March-18	Property Acquisition	Tuition
	Completion: December-18	Remodeling \$3,957,800 Additions \$0 Landscaping/Roads \$49,200	Millage Bond Proceeds Donations

divider wall, and painting. It will also include replacement of existing doors, installation of additional egress doors, ceiling circulation fans, fire suppression system, upgrades to the existing heating and ventilation units, and installation of new LED lighting, including emergency lighting. Over the past two years, efforts have been made to develop a broad-based approach to enhancing recreation and fitness opportunities. The Provost initially established an exploratory committee with representation from students, faculty, staff, and external advisors to guide and inform planning. Following this exploratory committee planning, consultants were engaged to assist with the development of a health and wellness framework plan to guide reinvestment that supports the Healthy Campus Initiative. Projects that include reinvestment in existing intramural facilities, including fields, and Demonstration Hall were identified as priority improvements. These improvements will replace systems and finishes that are beyond their useful life, provide additional capacity, and improve the user experience.	Equipment	\$21,500	Federal	
	Other(Fees)	\$271,500	Other -MSU facility reserve	\$4,300,000
	Total:	\$4,300,000	Total:	\$4,300,000

9 BIOCHEMISTRY - REPLACE WINDOWS - CP16202 - The windows in the Biochemistry Building date to the original construction in 1964. The replacement of the windows will improve energy efficiency, upgrade exterior envelope building aesthetics, eliminate interior deterioration, and enhance occupant comfort. The project involves replacement of 278 windows with energy-efficient, thermally sound windows, abatement of PCB caulk, minor associated interior finish repairs, and installation of new blinds.	Start Date:	May-18	Property Acquisition	Tuition	
	Completion:	October-18	Remodeling	\$1,533,825	Millage
			Additions	\$0	Bond Proceeds
			Landscaping/Roads	\$15,000	Donations
			Equipment	\$5,000	Federal
			Other(Fees)	\$131,175	Other -MSU Capital
			Total:	\$1,685,000	Renewal
				Total:	\$1,685,000

10 COMMUNICATION ARTS - REPLACE ROOFS 1, 2, 3, 6, 7, 14 AND 15 - CP16203 - The Communication Arts and Sciences Building is on the southeast corner of Wilson Road and Red Cedar Road in the central academic district. The project will involve replacing selected sections of the roof that have exceeded their useful life.	Start Date:	May-18	Property Acquisition	Tuition	
	Completion:	August-18	Remodeling	\$1,092,499	Millage
			Additions	\$0	Bond Proceeds
			Landscaping/Roads	\$220,000	Donations
			Equipment	\$0	Federal
			Other(Fees)	\$87,501	Other -MSU Capital
			Total:	\$1,400,000	Renewal
				Total:	\$1,400,000

11 DEMONSTRATION HALL - ALTERATIONS TO MULTI-USE COURT FLOOR - CP17166 -Demonstration Hall is located on Demonstration Hall Road between Kalamazoo Street and Chestnut Road. This project will remove, level, and replace the existing arena flooring with a new floor surface, dasher boards, and netting that will support a range of uses, including adaptive sports. The project will also include asbestos abatement and the installation of ceiling circulation fans, LED lighting, new paint, and restroom improvements. Over the past two years, efforts have been made to develop a broad-based approach to enhancing recreation and fitness opportunities. The Provost initially established an exploratory committee with representation from students, faculty, staff, and external advisors to guide and inform planning. Following this exploratory committee planning, consultants were engaged to assist with the development of a health and wellness framework plan to guide reinvestment that supports the Healthy Campus Initiative. Projects that include reinvestment in existing intramural facilities, including fields, and Demonstration Hall were identified as priority improvements. These improvements will replace systems and finishes that are beyond their useful life, provide additional capacity, and improve the user experience.	Start Date:	May-18	Property Acquisition	Tuition	
	Completion:	August-18	Remodeling	\$2,036,708	Millage
			Additions	\$0	Bond Proceeds
			Landscaping/Roads	\$1,792	Donations
			Equipment	\$10,750	Federal
			Other(Fees)	\$100,750	Other -MSU facility reserve
			Total:	\$2,150,000	Total:
					\$2,150,000

12 IM SPORTS-EAST - RENOVATIONS AND RESURFACE INDOOR TRACK - CP17168 - Intramural Recreative Sports East is located on Shaw Lane. The project includes removal of the interior running track wall and installation of a handrail system to open the track area to the gymnasium below; replacement of the existing track running surface; installation of window film on the exterior windows around the running track; replacement of the block wall separating the two gymnasiums with a motorized roll-up curtain divider wall; installation of new LED lighting, including emergency lighting; and painting.	Start Date:	May-18	Property Acquisition	Tuition	
	Completion:	August-18	Remodeling	\$2,011,000	Millage
			Additions	\$0	Bond Proceeds
			Landscaping/Roads	\$10,000	Donations
			Equipment	\$10,750	Federal
			Other(Fees)	\$118,250	Other -MSU facility reserve
			Total:	\$2,150,000	Total:
					\$2,150,000

13 FOOD SCIENCE - ALTERATIONS TO ROOMS 124, 124A-F, 124J, 217 AND 217A-W - CP17140 - Michigan State University has the potential to train a	Start Date:	May-18	Property Acquisition	Tuition
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<p>significant number of future employees for the food processing industry, but is currently limited in its training capacity due to an outdated laboratory facility. The renovated laboratory and associated support space will provide a modern teaching, learning, and research space that will keep pace with the changing demands of the food processing industry and provide the capacity to train the next generation of food processing employees. Renovations to this laboratory will also increase opportunities for MSU to partner with select community colleges to expand the reach of training opportunities across the State. Additionally, the renovated laboratory will serve over 700 MSU undergraduate students annually, in at least 12 different courses and three departments. The project includes renovations to suite 124 to provide a modern food processing instructional and research laboratory, including upgraded kitchen with new walk-in coolers and freezers; new analytical lab, observation and locker area; upgraded plumbing, electrical, heating, ventilation, and air conditioning; and rework of fire alarms, fire suppression, and access control.</p>	Completion: <u>January-19</u>	<table border="0"> <tr><td>Remodeling</td><td><u>\$3,085,000</u></td></tr> <tr><td>Additions</td><td><u>\$0</u></td></tr> <tr><td>Landscaping/Roads</td><td><u>\$0</u></td></tr> <tr><td>Equipment</td><td><u>\$25,000</u></td></tr> <tr><td>Other(Fees)</td><td><u>\$390,000</u></td></tr> <tr><td>Total:</td><td><u>\$3,500,000</u></td></tr> </table>	Remodeling	<u>\$3,085,000</u>	Additions	<u>\$0</u>	Landscaping/Roads	<u>\$0</u>	Equipment	<u>\$25,000</u>	Other(Fees)	<u>\$390,000</u>	Total:	<u>\$3,500,000</u>	<table border="0"> <tr><td>Millage</td><td><u> </u></td></tr> <tr><td>Bond Proceeds</td><td><u> </u></td></tr> <tr><td>Donations</td><td><u> </u></td></tr> <tr><td>Federal</td><td><u> </u></td></tr> <tr><td>Other -State of Michigan</td><td><u>\$3,500,000</u></td></tr> <tr><td>Appropriation and MSU College of Agriculture</td><td><u> </u></td></tr> <tr><td>Total:</td><td><u>\$3,500,000</u></td></tr> </table>	Millage	<u> </u>	Bond Proceeds	<u> </u>	Donations	<u> </u>	Federal	<u> </u>	Other -State of Michigan	<u>\$3,500,000</u>	Appropriation and MSU College of Agriculture	<u> </u>	Total:	<u>\$3,500,000</u>
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<p>14 MUSIC BUILDING - ADDITION NO. 3 - CP17077 - The Music Building opened in 1940, with the last major addition in 1956. The Music Building is located on West Circle Drive. The project includes a 35,000 square foot addition to the southwest portion of the Music Building, along with renovation of 8,400 square feet within the existing building. The addition will house performance and rehearsal rooms for jazz studies, conducting, bands, orchestras, and percussion as well as additional student practice and rehearsal rooms, faculty offices, and studio space. The areas within the existing building that are to be renovated will accommodate student recital, choral and opera rehearsal, large classroom space, expanded music recording and editing space, and a renovated piano repair workshop. The project also includes \$1,250,000 to address capital renewal needs, principally replacing windows and upgrade HVAC to related space as funds allow.</p>	Start Date: <u>May-18</u>	Property Acquisition	Tuition																							
	Completion: <u>August-19</u>	<table border="0"> <tr><td>Remodeling</td><td><u>\$4,489,160</u></td></tr> <tr><td>Additions</td><td><u>\$25,438,575</u></td></tr> <tr><td>Landscaping/Roads</td><td><u>\$100,000</u></td></tr> <tr><td>Equipment</td><td><u>\$1,941,250</u></td></tr> <tr><td>Other(Fees)</td><td><u>\$4,281,015</u></td></tr> <tr><td>Total:</td><td><u>\$36,250,000</u></td></tr> </table>	Remodeling	<u>\$4,489,160</u>	Additions	<u>\$25,438,575</u>	Landscaping/Roads	<u>\$100,000</u>	Equipment	<u>\$1,941,250</u>	Other(Fees)	<u>\$4,281,015</u>	Total:	<u>\$36,250,000</u>	<table border="0"> <tr><td>Millage</td><td><u> </u></td></tr> <tr><td>Bond Proceeds</td><td><u> </u></td></tr> <tr><td>Donations</td><td><u>\$17,500,000</u></td></tr> <tr><td>Federal</td><td><u> </u></td></tr> <tr><td>Other -MSU facility reserve</td><td><u>\$18,750,000</u></td></tr> <tr><td>Total:</td><td><u>\$36,250,000</u></td></tr> </table>	Millage	<u> </u>	Bond Proceeds	<u> </u>	Donations	<u>\$17,500,000</u>	Federal	<u> </u>	Other -MSU facility reserve	<u>\$18,750,000</u>	Total:
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Total:	<u>\$36,250,000</u>																									

<p>15 WATER TREATMENT PLANT AND TOWER - CONSTRUCT ORIGINAL BUILDINGS - CP16086 - The project is located southeast of the intersection of Service Road and Recycle Drive in the service district. The project will include a 2,000,000 gallon elevated storage tank that will be 150 feet tall. Also included is a 11,500 gross square foot water treatment plant, which will include water treatment processes such as chlorination and fluorouridation (in addition to iron removal), which are currently done at the reservoir. The old reservoir will be taken out of service when the new water treatment plant becomes operational.</p>	Start Date: <u>June-18</u>	Property Acquisition	Tuition																							
	Completion: <u>May-20</u>	<table border="0"> <tr><td>Remodeling</td><td><u> </u></td></tr> <tr><td>Additions</td><td><u>\$18,735,000</u></td></tr> <tr><td>Landscaping/Roads</td><td><u>\$100,000</u></td></tr> <tr><td>Equipment</td><td><u>\$31,010</u></td></tr> <tr><td>Other(Fees)</td><td><u>\$2,133,990</u></td></tr> <tr><td>Total:</td><td><u>\$21,000,000</u></td></tr> </table>	Remodeling	<u> </u>	Additions	<u>\$18,735,000</u>	Landscaping/Roads	<u>\$100,000</u>	Equipment	<u>\$31,010</u>	Other(Fees)	<u>\$2,133,990</u>	Total:	<u>\$21,000,000</u>	<table border="0"> <tr><td>Millage</td><td><u> </u></td></tr> <tr><td>Bond Proceeds</td><td><u> </u></td></tr> <tr><td>Donations</td><td><u> </u></td></tr> <tr><td>Federal</td><td><u> </u></td></tr> <tr><td>Other -MSU facility reserve</td><td><u>\$21,000,000</u></td></tr> <tr><td>Total:</td><td><u>\$21,000,000</u></td></tr> </table>	Millage	<u> </u>	Bond Proceeds	<u> </u>	Donations	<u> </u>	Federal	<u> </u>	Other -MSU facility reserve	<u>\$21,000,000</u>	Total:
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<p>16 Facility for Rare Isotope Beams - High Rigidity Spectrometer and Isotope Harvesting Experimental Vault -CP16108 - The Facility for Rare Isotope Beams (FRIB) is moving toward completion. Civil construction was substantially complete earlier this year, ahead of schedule, with the project now focused on installation of technical equipment. The U.S. Department of Energy (DOE) has indicated that it wants to begin providing operational funding in 2018, rather than in 2022 as originally anticipated. Given the success of the FRIB project, the DOE is interested in additional research opportunities at MSU. This project is for facilities that would support that research. The project involves demolition of an existing building to accommodate the installation of a new 31,000 square foot vault, truck bay, and overhead crane. The new vault will provide a highbay for isotope harvesting and space to accommodate a new large-scale detector (high rigidity spectrometer). The project will contain an area with a sunken floor and a two-level infill providing space for mechanical and electrical systems with circulation around the vault. Mechanical systems will include a new pressure release valve station with high-pressure steam fed from FRIB and a new chiller to provide the required process water and airside cooling systems for the vault.</p>	Start Date: <u>May-18</u>	Property Acquisition	Tuition																							
	Completion: <u>January-19</u>	<table border="0"> <tr><td>Remodeling</td><td><u> </u></td></tr> <tr><td>Additions</td><td><u>\$17,250,000</u></td></tr> <tr><td>Landscaping/Roads</td><td><u>\$500,000</u></td></tr> <tr><td>Equipment</td><td><u>\$3,000,000</u></td></tr> <tr><td>Other(Fees)</td><td><u>\$1,750,000</u></td></tr> <tr><td>Total:</td><td><u>\$22,500,000</u></td></tr> </table>	Remodeling	<u> </u>	Additions	<u>\$17,250,000</u>	Landscaping/Roads	<u>\$500,000</u>	Equipment	<u>\$3,000,000</u>	Other(Fees)	<u>\$1,750,000</u>	Total:	<u>\$22,500,000</u>	<table border="0"> <tr><td>Millage</td><td><u> </u></td></tr> <tr><td>Bond Proceeds - payment from indirect cost recoveries and facilities reserve</td><td><u>\$22,500,000</u></td></tr> <tr><td>Donations</td><td><u> </u></td></tr> <tr><td>Federal</td><td><u> </u></td></tr> <tr><td>Other -MSU facility reserve)</td><td><u> </u></td></tr> <tr><td>Total:</td><td><u>\$22,500,000</u></td></tr> </table>	Millage	<u> </u>	Bond Proceeds - payment from indirect cost recoveries and facilities reserve	<u>\$22,500,000</u>	Donations	<u> </u>	Federal	<u> </u>	Other -MSU facility reserve)	<u> </u>	Total:
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17 Purchase approximately 0.62 acres owned by Kent County and located at 520 Monroe Avenue NW, Grand Rapids. This property is located at 520 Monroe Avenue NW, in Grand Rapids, Michigan and is used for surface parking. The 520 Monroe Avenue NW property is desirable to MSU because it will significantly increase MSU's contiguous land base available for future program needs near the Grand Rapids Research Center.	Start Date: June-18	Property Acquisition	\$ 1,650,000.00	Tuition	_____
	Completion: June-18	Remodeling	_____	Millage	_____
		Additions	_____	Bond Proceeds	_____
		Landscaping/Roads	_____	Donations	_____
		Equipment	_____	Federal	_____
		Other(Fees)	_____	Other -MSU	\$1,650,000
		Total:	\$1,650,000	General Fund	_____
				Total:	\$1,650,000