

Montana State University - Deferred Maintenance List

Campus	Project Title	Project Description	Est. Cost	Est. Cost Year
Billings	Cisel Hall Fire Suppression	Install fire suppression system in Cisel Hall	1500000	2030
		Replace Cisel Hall's aging roof.		
Billings	Cisel Hall Roof Replacement		800000	2030
Billings	City College Parking Lot Pavement Upgrades	Repave City College parking lot.	500000	2030
Billings	College of Education Plumbing Improvements	Replace supply & waste piping.	3100000	2030
Billings	Liberal Arts Building HVAC Upgrades	Upgrade HVAC system.	588500	2030
	General Education Building Restroom Upgrades	Replace obsolete flush valves and fixtures.		
Billings			2495000	2030
		Replace windows with thermal type.		
Billings	Library Window Replacement		750000	2030
		Upgrade pneumatic controls to DDC.		
Billings	P.E. Building Control Upgrades		700000	2030
		Replace electrical distribution system.		
Billings	Cisel Hall Electrical Upgrades		347000	2028
		Replace R-22 Chiller.		
Billings	Cisel Hall Chiller Replacement		484500	2028
		Replace fixtures in original building w/low-flow		
Billings	Cisel Hall Plumbing Fixture Upgrades		638200	2028
		Replace exterior windows		
Billings	Liberal Arts Building Window Replacement		1743000	2028
		Replace heating water piping.		
Billings	Library Piping Replacement		823750	2028
		water piping.		
Billings	P.E. Building Plumbing Replacement		2210000	2028
Billings	Yellowstone Science & Health Building Roof	Replace aging roof on original building.	521000	2028
	Yellowstone Science & Health Building	Replace supply & waste piping in original building.		
Billings	Plumbing Replacement		1750000	2028
	Facilities Services Shop Plumbing Replacement	Replace waste & supply piping		
Billings			305000	2029

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Billings	Liberal Arts Building HVAC Upgrades	Replace pneumatic controls, VAVs & dampers with electronic.	1162000	2029
Billings	Library HVAC Upgrades	Replace pneumatic control system w/digital.	525600	2029
Billings	Library Cooling Tower Replacement	Replace two cooling towers and locate above grade.	504750	2029
Billings	College of Education Chiller Replacement	Replace chiller	666000	2030
Billings	Liberal Arts Building Elevator Replacement	Replace 3 elevators	255000	2030
Billings	Library Fire Suppression	Install sprinklers in building.	1059345	2030
Billings	P.E. Building Elevator Replacement	Replace obsolete elevator	640000	2030
Billings	Technology Building Elevator Replacement	Replace elevator	635000	2031
Billings	College of Education Boiler Replacement	Replace boiler	1008000	2031
Billings	Library Plumbing Replacement	Replace supply, waste, and recirc piping in restrooms.	1112200	2031
Billings	McMullen Hall Plumbing Replacement	and 3rd complete).	1112350	2031
Billings	College of Education Chiller Replacement	REPLACE MCQUAY CHILLER.	770800	3032
Billings	College of Education Water Heater Replacement	Replace water heater (boiler type).	844200	2032
Billings	Library HVAC Controls Upgrade	Replace AHU-3.	633200	2032
Billings	Library Elevator Replacement	Replace aging elevator	1500000	2032
Billings	P.E. Building Window Replacement	Replace exterior windows.	2000000	2032
Billings	General Education Building Plumbing Replacement	Comprehensively replace the failing sanitary piping, vent piping, domestic water piping, and obsolete plumbing fixtures in the	5880000	2028

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		windows.		
Billings	Cisel Hall Window Replacement		1285000	2028
Billings	City College Technology Building Window	Comprehensively replace the Technology Building's failing	1255000	2028
	City College Technology Building Roof	Replace the Technology Building's failing roof.		
Billings	Replacement		1760000	2028
Billings	General Education Building Roof	Replace the general education building's failing roof.	595000	2028
		Reconstruct the Library's exterior walkway to eliminate life-		
Billings	Library Walkway Safety Improvements	safety risks and water infiltration.	2245000	2028
Billings	Campus Irrigation Improvements	Replace existing manual irrigation system with automated	350000	2030
Billings	College of Education Lighting Upgrades	Upgrade lighting to LED	320000	2030
Billings	McMullen Hall Data Center HVAC	Add backup HVAC system in data center.	300000	2030
Bozeman	Campus Redundant Power Supply	Install a redundant power supply to south end of campus near	6000000	2030
	Plant Growth Center Cooling System	Upgrade building cooling systems at end of useful life. Will		
Bozeman	Upgrades	address significant deferred maintenance and reliability issues.	8500000	2030
		Optimize control of AHUs, including replacing some		
		components at end of life. HVAC equipment components are at		
Bozeman	Plant Growth Air Handling System Upgrade	end of useful life. Replace existing equipment components to	4000000	2030
Bozeman	Barnard Hall Roof Replacement	Replace end of life roof covering & insulation	3000000	2025
		serving laboratory spaces.		
Bozeman	Cooley Lab Airflow System Upgrades		10000000	2024
Bozeman	Roberts Hall Electrical System Upgrades	Comprehensively upgrade Roberts Hall electrical system.	4500000	2022
Bozeman	Renne Library Elevator Replacement	Replace the aging Renne Library Elevator.	2005000	2028
Bozeman	Roberts Hall Windows Replacement	Comprehensively replace Roberts Hall's original 105-year-old	2030000	2028
Bozeman	Traphagen Hall Roof Replacement	Replace Traphagen Hall's aging terra cotta shingles and	2300000	2028
Bozeman	Taylor Hall Envelope Restoration	Restore Taylor Hall's exterior envelope by addressing	1700000	2028
		Renovate and modernize classrooms, lecture halls, and		
Bozeman	Instructional Space Improvements	instructional computer labs across the MSU campus.	4000000	2028
Bozeman	Herrick Hall Roof Replacement	Replace Herrick Hall's aging clay roof.	2495000	2030
Bozeman	Culbertson Hall Elevator Replacement	Replace Culbertson Hall's aging elevator to ensure ADA	1455000	2028
		Improve accessibility between the first and second floors of		
Bozeman	Howard Hall ADA Improvements	Howard Hall by installing a lift.	1365000	2028

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Bozeman	Plew Building Deferred Maintenance & ADA Upgrades	Retire the Plew Building's critical deferred maintenance and improve building accessibility.	2495000	2030
Bozeman	1102 & 1106 S. 6th Avenue Demolition	Demolish 1102 & 1106 S 6th to retire significant deferred	550000	2028
Bozeman	Roberts Hall Roof Replacement	Replace tiles on roof and add snow fall protection.	3000000	2030
Bozeman	Instructional Space Improvements	spaces on campus.	11135000	2028
Bozeman	Campus Fire Alarm Network	Procure and install equipment to establish a campus-wide fire alarm network at MSU's Bozeman campus, replacing the current system of individually monitored alarms. The new network will enhance functionality, reduce long-term monitoring	1000000	2022
Bozeman	Huffman Building Window Replacement	Replace all exterior windows at the Huffman Building.	1000000	
Bozeman	AJMJ Window Replacement	Replace failing exterior windows	1500000	2022
Bozeman	AJMJ Secondary Electrical Upgrades	Upgrade secondary electric.	1500000	2022
Bozeman	Cooley Lab Airflow System Upgrades	Replace or upgrade obsolete Phoenix airflow control systems	10000000	2024
Bozeman	Herrick Hall Foundation Seal	Reseal Herrick Hall's foundation to mitigate frequent water	1000000	2022
Bozeman	Herrick Hall Window Replacement	Replace Herrick Hall's aging and deteriorated windows with historically appropriate windows.	2000000	2026
Bozeman	Howard Hall Controls Upgrade	Replace pneumatic controls with digital controls.	1000000	2022
Bozeman	Linfield Hall Branch Circuit Upgrades	Upgrade antiquated electrical system.	2431000	2024
Bozeman	Montana Hall Plumbing System Upgrades	Replace original supply and waste piping, install plumbing vent system to meet code, and replace plumbing fixtures.	1000000	2022
Bozeman	Renne Library Staff Elevator Replacement	Replace elevator which is beyond expected useful life and not	1500000	2022
Bozeman	Renne Library West Entry Improvements	Correct drainage, accessibility, and substantial deferred maintenance to make the west entrance useable again.	2250000	2021
Bozeman	Sherrick Hall Roof Replacement	Replace Sherrick Hall's aging roof.	750000	2025
Bozeman	Traphagen Hall Ventilation Upgrades	Provide or upgrade mechanical ventilation systems where existing systems are non-existent, marginal, or poorly functioning to ensure proper outside air quantities and	3700000	2023
Bozeman	VisCom Fire System Upgrades	Upgrade system to EST-4	850000	2023
Bozeman	Campus Autoclave Replacement	Replace 11 end of life autoclaves used for research and	1650000	2023

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Bozeman	Leon Johnson Laboratory Upgrades	Install backup generator, update lab benches and eyewash stations to meet current federal regulations.	1000000	2023
Bozeman	Roberts Hall Life-Safety & ADA Upgrades	Install fire suppression and improve ADA access by adding an	2300000	2023
Bozeman	Huffman Building Roof Replacement	Replace Huffman Building's end of life roof.	500000	2024
Bozeman	Plew Building Roof & Canopy Replacement	Replace Plew Building roof and entrance canopy.	1000000	2025
Bozeman	Nopper Building Elevator	Add elevators to Nopper 910 and 900 to ensure ADA	2000000	2024
Bozeman	Barnard Hall Passenger Elevator Upgrades	Upgrade passenger elevator. Controls are obsolete and it is not	1800000	2022
Bozeman	Haynes Hall Roof Replacement	Replace Haynes Hall aging roof.	2000000	2025
Bozeman	Plant Growth Center Elevator Replacement	Replace aging elevator.	1200000	2022
Bozeman	Reid Hall HVAC Control System Upgrades	Improve heating, cooling, and ventilating in instructional and	1500000	2023
Bozeman	Renne Library Fire Alarm System Upgrades	Upgrade fire alarm system with system that is equipped with	2400000	2022
Bozeman	Taylor Hall Roof Replacement	Replace Taylor Hall's aging roof.	350000	2025
Bozeman	Traphagen Hall Elevator Replacement	Replace existing elevator and equipment.	1500000	2022
Bozeman	Molecular Bioscience Building Fire System	Upgrade panel and devices.	1000000	2024
Bozeman	Huffman Building Fire Suppression	Install fire suppression system.	1500000	2023
Bozeman	Campus Plumbing System Retrofit	plumbing fixture replacements in various Academic, Admin and Research buildings. Existing equipment uses more domestic water that current available equipment. The project will replace	1000000	2024
Bozeman	Barnard Fire Alarm System Upgrade	Upgrade obsolete fire alarm system.	1500000	2022
Bozeman	Cheever Hall Fire Alarm Upgrade	Upgrade obsolete fire alarm system.	1250000	2022
Bozeman	Cheever Hall Fire Suppression Installation	Comprehensively install fire suppression in Cheever Hall.	2100000	2022
Bozeman	Creative Arts Complex Mechanical Cooling	Add mechanical cooling to the creative arts complex. Single building electrical service would almost certainly need to be replaced at this time, since the original design utilized steam-	1500000	2022
Bozeman	Harrison Hall Roof Replacement	Replace failing roof system.	1500000	2025
Bozeman	Haynes Hall Elevator Replacement	Analysis, design and provision of new, code compliant elevator.	1500000	2025
Bozeman	Haynes Hall Fire Suppression & Alarm System	Install fire suppression system (non-existent) and upgrade	1500000	2021
Bozeman	Linfield Hall Ventilation Upgrades	Provide or upgrade mechanical ventilation systems where existing systems are non-existent, marginal, or poorly functioning to ensure proper outside air quantities and	2200000	2021
Bozeman	Linfield Hall Transformer & MDP Upgrades	Upgrade antiquated electrical system at Linfield hall. 	2422000	2026
Bozeman	Roberts Hall Fire Suppression	Add fire suppression to Roberts Hall.	1500000	2022

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Bozeman	VisCom Elevator Replacement	Replace aging elevator.	1200000	2022
Bozeman	South 11th Avenue Safety & Maintenance	Reconstruct road base and repave. Improve pedestrian and	2700000	2028
Bozeman	Wilson Hall Fire System Upgrades	Upgrade obsolete fire alarm system	1600000	2023
Bozeman	Montana Hall Roof Snow Fall Mitigation	Replace failing components of Montana Hall roof and provide snow and ice fall protection.	2495000	2030
Bozeman	Plant Growth Center Fire Alarm System &	Upgrade fire alarm system and controls. Preliminary design &	1000000	2030
Bozeman	Reid Hall Roof Replacement	Replace Reid Hall's end of life roof.	2800000	2030
Bozeman	Wilson Hall Envelope Repairs	Restore masonry. Parapet walls are crumbling and there is significant spalling throughout.	3000000	2030
Bozeman	Wilson Hall Roof Replacement	Replace Wilson Hall's aging roof.	3600000	2030
Bozeman	Barnard Hall Lab Airflow/Exhaust Upgrades	Upgrade of systems serving labs at end of useful life. Addresses deferred maintenance and safety issues. HVAC equipment providing laboratory airflow and exhaust is at end of useful life. Repairs are frequent and parts are becoming obsolete. Systems	2500000	2030
Bozeman	Barnard Hall Cooling System Upgrades	Upgrade equipment using single-pass City water for cooling. Equipment uses significant domestic water for cooling. Is expensive and wasteful. The project will connect equipment to	350000	2030
Bozeman	Renne Library Data Center HVAC Upgrades	Upgrade aging and problematic HVAC systems serving IT infrastructure providing critical 4-campus services including Banner enterprise student and business services, on-campus and remote learning technologies, research and high-performance computing, campus telephony services, as well as	1500000	2030
Bozeman	Traphagen Hall Life-Safety	Add fire suppression system and upgrade fire alarm system.	3500000	2030
Bozeman	Plant Growth Center Cooling Tower	Replace PGC cooling towers #1 & #2.		
Bozeman	Cobleigh Hall Electrical Distribution Upgrades			2030
Bozeman	Visual Communications Building Cooling	Replace cooling tower.		
Bozeman	Cobleigh Hall Fire Alarm and Riser	Replace aging alarm system and risers.	2725000	2030
Bozeman	Marsh Lab Demolition	deferred maintenance.	2390000	2028
Bozeman	Barnard Lab Airflow System Upgrades	Replace or upgrade obsolete Phoenix airflow control systems	2000000	2022
Bozeman	Sherrick Hall Life-Safety Upgrades	Replace and update fire alarm panel and devices. The system is old, obsolete, and at the end of its expected useful life.	500000	2022

Campus	Project Title	Project Description	Est. Cost	Est. Cost Year
GFC	Great Falls College HVAC Replacement	Replace aging and obsolete HVAC components serving Great	2160000	2028
GFC	Great Falls College Windows Replacement	Replace 52 original windows that have lost efficiency and are compromising temperature control and energy performance	315000	2028
Northern	Hagener Science Center HVAC Replacement	Comprehensive replacement of aging and obsolete HVAC components in Hagener Science Center.	2945000	2028
Northern	Donaldson Hall Renovation	new energy efficient heating, cooling, lighting and a better utilization of this centrally located and historically significant building.	16210000	2028
Northern	Vande Bogart Library HVAC Replacement	Comprehensively replace aging and obsolete HVAC	1930000	2028
Northern	Campus Elevators Major Repairs (3 Buildings)	Modernize campus elevators including Brockmann Center, Hagener Science Center and Vande Bogart Library.	855000	2028
Northern	Pershing Hall HVAC System Replacement	Replace Pershing Hall's failing and obsolete HVAC components.	720000	2028
Northern	Vande Bogart Library Flooring Replacement	Replace the Library's original deteriorating flooring.	350000	2030
Northern	Electronics Technology Building Roof	Replace the buildings failing roof system.	600000	2030
Northern	Brockmann Center Roof Replacement	Replace aging roof	1200000	2025
Northern	Applied Technology Center Roof Replacement	Replace aging roof.	700000	2025