

## MHLS State Aid for Library Construction Program Application | FY2026

**Abstract:** Energy conservation by replacement of MHLS Office Building 3rd floor air conditioning unit with energy efficient units.

**Description of project:** To improve energy efficiency, the MHLS Office Building's third-floor condenser and air circulation units will be replaced with new equipment that complies with MHLS's energy conservation and useful life maintenance guidelines. This replacement aligns with the MHLS Board's State Aid for Library Construction Program funding priorities.

The project includes the following elements:

- purchase and install a new indoor vertical air handler, a new outdoor condenser unit, both meeting benchmarks of 12.5 EER and 17.8 IEER
- purchase and install new electrical and temperature control wiring and new thermostats
- the fabrication and installation of all necessary ductwork to install the new vertical air handler to connect with existing ductwork is also encompassed in this project.
- all preparation, installation, wiring, ducting, testing, cleanup and related items necessary to complete the replacement of the existing condenser and air handler unit with a new condenser and air handler unit, meeting Energy Star requirements, where possible, and maintaining equivalent power to what is being replaced for both cooling and moving of air.

All work shall be accomplished by skilled workmen familiar with and trained to do this type of work, and they shall be further qualified to operate or use the equipment or rigging needed to accomplish this work. All work shall comply with current applicable codes including OSHA and DOL compliance.

**Impact of Project:** Energy conservation by replacement of MHLS Office Building third floor condenser and air circulator units with new self-contained all in one vertical cooling unit, with all equipment meeting MHLS energy conservation useful life maintenance guidelines.

As part of the MHLS Facility Master Plan, the replacement of these units will result in a more efficient use of energy while increasing the comfort level of our staff and maintaining a climate controlled environment for all of our servers and equipment stored on the third floor. The new unit will be ENERGY STAR rated where possible. ENERGY STAR is a U.S. Environmental Protection Agency (EPA) voluntary program that helps businesses and individuals save money and protect our climate through superior energy efficiency. This project will not only save energy it will also increase our ability to monitor energy usage. This project will adhere to the MHLS energy conservation useful life maintenance guidelines, which are a MHLS Board State Aid for Library Construction Program Funding Priority.

**Total Project Cost:** \$69,941

**Request Amount:** \$34,970