Dean Road Transportation Facility

Project Description

The Transportation Services Building on the Stephen M. Ross Athletic Campus houses the bus and motor pool vehicle maintenance functions of Logistics, Transportation and Parking (LTP). Since its construction in 1974, the LTP bus fleet has grown 45 percent and we now transport more than seven million riders per year on U-M buses. LTP proposes the construction of a new approximately 70,000-gross-square-foot operations and maintenance building that can accommodate larger articulated buses, and heavy equipment, and meet current safety guidelines for vehicle maintenance, circulation, and appropriate work zones. The design will include the capability to maintain electric buses for sustainability improvements if desired in the future. The new facility will be located at the site of the University Laundry Building that serves patient care facilities of Michigan Medicine. That building will be demolished after Michigan Medicine has a fully operational laundry at an off-campus location. The university's auto and truck fleet maintenance will remain on the Stephen M. Ross Athletic Campus. There will be no additional bus traffic on Green Road resulting from this project. We anticipate this new location will save approximately $100,000 per year from increased bus operational efficiency since many routes begin on North Campus.

Energy Efficiency Measures

- The building's design and systems are designed with a stretch goal for energy cost savings of 20% compared with an energy code compliant building as defined in ASHRAE 90.1-2013
- Occupancy sensors to turn off lights when spaces are un-occupied.
- Daylighting strategies and LED lights to reduce lighting load.
- Above code R-value of wall and roof insulation
- Above code performance of exterior glazing
- Energy efficient garage doors
- Utilization of a high-efficiency, condensing boiler
- Utilization of energy recovery type systems that "recycle" energy used in conditioning
- Use of natural ventilation in bus storage and maintenance areas as a means to provide fresh air to the space instead of mechanical ventilation

Other Sustainability Measures

- This project is LEED® certified to the Silver level and achieved 57 points under the LEED v4 Building Design and Construction for New Construction rating system.
- Native and drought tolerant plantings will be used on site to reduce irrigation water use
- Designed to reduce water consumption by nearly 40% beyond Michigan Plumbing Code; savings obtained through the use of low-flow plumbing fixtures
- Construction Waste Management, 75% of the waste generated during construction was diverted from landfills and either salvaged for reuse or recycled
- Specification of materials with recycled content
- Specification of regional materials
- Low-emitting materials installed. Materials include paints and coatings, adhesives and sealants, flooring, wall panels, ceilings, and insulation