

Varsity Drive Building Dry Collection Relocation Renovations



Project Description

This project will relocate dry research museum collections, associated lab spaces, and some offices for the Departments of Anthropology, Paleontology, and Zoology currently housed in the Alexander G. Ruthven Museums Building, the Campus Safety Services Building, and the Clarence Cook Little Science Building to the Varsity Drive Building. A renovation of approximately 71,000 gross square feet at the Varsity Drive Building is planned to accommodate the relocation of the collections. The project will create several environmentally-controlled areas with different temperature and humidity conditions appropriate to protect the various collections. The existing building is a warehouse, and the project will include comprehensive architectural, mechanical, and electrical work necessary to accomplish these improvements. The relocation of the “dry” research collections will create administrative efficiencies by co-locating with the “wet” research collections of the same departments at the Varsity Drive Building.

Energy Efficiency Measures

- The building’s design and systems include a number of energy efficient features that will allow for an estimated 21% energy savings compared with an energy code compliant building as defined in ASHRAE 90.1 -2007 Appendix G
- Improved building envelope for renovated area including additional wall insulation on south and east walls, additional insulation on low roof, improved glazing systems on south and east walls, and exterior shading devices/interior light shelves for south glazing
- Lower velocity ductwork and AHU components to reduce pressure drop and fan horsepower
- High efficiency condensing boilers
- High efficiency chillers
- Desiccant dehumidification vs. standard cool/reheat system
- High efficiency condensing water heaters
- Occupancy sensor tie-in to VAV boxes where appropriate
- Reduced lighting power density and added occupancy sensors throughout the renovated areas
- Daylighting controls for areas with south facing glass

Other Sustainability Features

- No additional parking added to promote use of public and alternative forms of transportation
- Bike storage and showers available to building occupants to promote use of alternative transportation
- Water use reduction through use of low flow plumbing fixtures
- Building adaptive reuse
- Recycled and regional materials used when possible
- Low-VOC materials used when possible