

The Ohio State University Cannon Drive Relocation Phase 1

Columbus, OH

Construction Completion: 2018
Construction Cost: \$36,000,000
Tri-Tech Services: Electrical Engineering
Reference: Tom Ekegren
ekegren.3@osu.edu

Project Description

Tri-Tech's client, EMH&T, was contracted by the City of Columbus and The Ohio State University to provide engineering services for the relocation of Cannon Drive between John Herrick Drive and King Avenue. Under this project, the existing roadway was relocated to the west, creating 12 new acres of developable land with OSU's Medical Campus. The project included construction of a new certified levee between the relocated roadway and the Olentangy River, which provides flood protection for the OSU Medical Campus. To drain the campus area to the east of the levee when the river level is elevated, the storm sewer system includes backflow prevention measures along with a storm water pumping station. The pump station operates in conjunction with system storage and provides flood protection under a variety of river flooding and localized storm events equivalent to a 500-year recurrence interval.

Tri-Tech provided electrical and controls design for the pump station, including modification of 13.2kV underground power distribution from the OSU substation to the pump station coordinating with modifications to other 13.2kV distribution cables and routing. The pump station power service included two independent 13.2kV circuits with an automatic source selecting switch ahead of the 480V power transformer and a 480V automatic transfer switch and 1MW generator after the transformer, plus a manual transfer switch for a 1MW mobile generator connection for a fourth possible power source.

The design team for this project has been selected for the second phase of this project as well.

Project Team Members

Dan Frye



4 VIEW FROM NORTH EAST
NOT TO SCALE



2 VIEW FROM SOUTH EAST
NOT TO SCALE