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1785 S. Metro Parkway
Centerville, OH 45459

"Established in 1977"

Greater Dayton RTA Electrical Utility Replacement

Dayton, OH

Construction Completion: 2018
Size: 140,000 SF
Construction Cost: $507,500
Tri-Tech Services: Electrical Engineering
Reference: John Cummisky
jcummiskey@greaterdaytonrta.org

Note: Project is currently under construction.
Photos shown are prior to construction

Project Description

The primary Greater Dayton RTA facility was operating from multiple existing electrical services at different voltages. Due to addition of new equipment in the facility which required 480V power, along with a desire to replace aging electrical distribution equipment and consolidate the building onto one electrical service, it was determined that a service replacement was necessary.

Tri-Tech worked with the RTA to evaluate the existing facility electrical distribution and provided design options in order to most effectively consolidate the service, in addition to replacement of existing distribution equipment and power requirements for new equipment. After discussing the options with the owner, it was decided to provide a single 208V-3PH service to the building. The existing primary distribution would be replaced, and existing panels throughout the building would be backfed from the new service. New transformers would be provided in locations requiring different operating voltages for existing and new equipment.

Based on these design decisions, Tri-Tech completed the design for the service replacement. Tri-Tech provided Opinions of Probable Construction Cost to ensure that the design met the project budget provided by the owner. Throughout the design process, Tri-Tech sought to reuse as much of the existing distribution as possible, in order to reduce cost and minimize downtime during the construction process. The existing pole-mounted utility transformers will be removed and replaced with a new pad-mounted utility transformer as well.

Project Team Members
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