CHAMPION FIBERGLASS®

Do More.®

SAN JACINTO RIVER AUTHORITY INSTALLS CORROSION-RESISTANT UNDERGROUND ELECTRICAL CONDUIT

The San Jacinto River Authority needed underground electrical conduit that would protect conductors against severe physical damage within a highly corrosive environment. They hired Walker Engineering, Inc., a full-service commercial and industrial electrical and Datacom contractor, to complete the project. With more than thirty years of experience in installing electrical conduit, Walker works with a variety of electrical conduit manufacturers, providing electrical and network design and installation services to businesses across Texas.

CHALLENGE

Walker Engineering originally considered PVC-coated aluminum rigid conduit for this project. They needed an underground electrical conduit solution that was cost-effective and didn't pose a risk to the integrity of the conductors. However, due to pricing and availability, the PVC-coated aluminum rigid conduit was not feasible to meet these requirements.

SOLUTION

Instead of sticking with the original project specifications, Walker Engineering upgraded to Champion Fiberglass RTRC (Reinforced Thermosetting Resin Conduit) based on previous project experience and familiarity with Champion's track record. When factoring in labor, RTRC costs 71% less than aluminum conduit and provides comparable protection in corrosive atmospheres.

Champion Fiberglass was installed at both the SJRA's Raw Water Intake pumping station and the Chemical Systems Building, in sizes ranging from 1" through 4" utilizing both standard- and lob-radius 90 degree elbows, along with an assortment of other fittings. The corrosion-resistant fiberglass conduit installed quickly and easily. Champion's sales and technical support staff assisted with supply and logistical issues—as well as providing subject matter expertise, helping guide the project along to a successful and expedient conclusion.

RESULTS

Champion's fiberglass conduit allowed for an easier installation process, providing labor savings for the contractors involved. Because Walker's electrical engineers spent fewer man hours on a less-intensive installation, the SJRA could rely on their electrical infrastructure at lower overall operational costs.