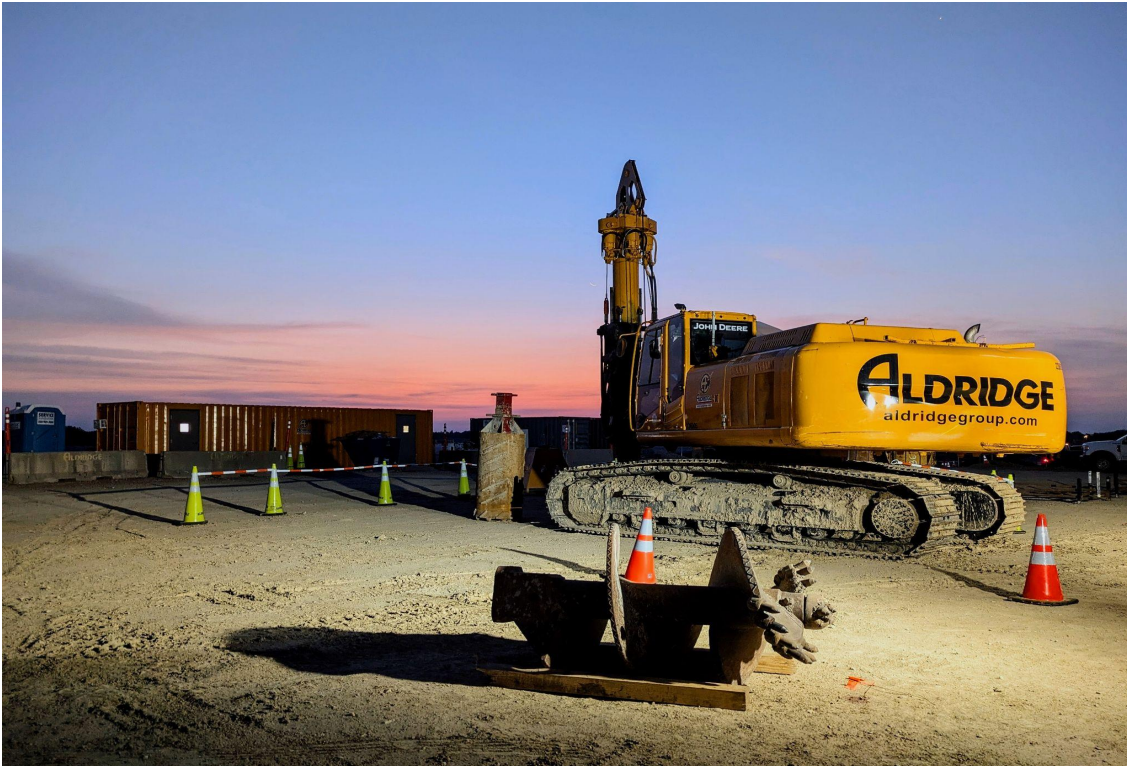




Building and Strengthening America's Infrastructure

2025 Electrical Problem Statement

We have selected a project that encompasses multiple aspects of electrical construction for the 2025 ASC Region 3 Student Competition. We hope that this year's problem will help to prepare you for your future. As leaders of your student groups today, you have set your paths to become the Construction Industry's leaders of tomorrow.

This competition is a chance to introduce you to a day in the life of a Project Manager. We hope to challenge your team's ability to leverage academic knowledge, intuition, problem solving skills, and the ability to have fun in a pressured environment. We appreciate that each of you are dedicating a great deal of time and effort by participating in the electrical competition.

We look forward to your response, and the competition in October 2025.

Good Luck!

MISSION

Building America's infrastructure to improve quality of life. Aldridge Electric Building & Strengthening America's Infrastructure

VISION

Be the first choice for energy and transportation infrastructure.

STRATEGY

Recruit and develop the industry's most passionate and creative people to take on the industry's most challenging work.



At Home or at Work, Day or Night

Nobody Gets Hurt

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Problem Description:

A data center is planning the construction of an electrical substation to support its high energy demands and ensure reliable power supply. Construction sequencing and coordination with subcontractors early on during the pre-construction phase is critical in order to meet the construction milestones.

This project includes several key scopes of work. The electrical areas of work include installing Transmission Underground (TUG), grounding grid, and small bore conduits. The civil construction will include drilling shafts for static poles, light poles, and support structures for bus systems and arrestors. Other concrete work that is necessary for this job will be creating pads for transformers, breakers, auxiliary equipment, and relay cabinets, as well as precast cable trough.

Teamwork and coordination between the project team, internal support departments, the customer, and other contractors on the project is the only way this can be completed within the allowed schedule. Creative solutions to complex constructability challenges are a must on this project

Student Roles:

Students will be assuming the roles of a project team. We understand that a project team generally would not consist of 6 members, but in spirit of the problem, teams may feel free to delegate roles as they wish. Specific responsibilities and titles can be determined by the student team. Prequalifications will be collected at the Pre-Bid meeting on October 23rd. Prequalifications should include headshots, your team name, roles, real resumes, and a brief description of your company background.

Contact Information:

Prior to October 23rd, 2025, any questions regarding the Region 3 Electrical Problem Statement can be directed to: Emma Powers | epowers@aldridgegroup.com

