

Eastside Substation

Lump Sum Price: \$51,218.47

Scope

- This change order is in regards to the additional design and installation work for the bus duct modifications/replacement for the Eastside Substation project. Work is currently at a stopping point due to this issue.
- The extent of the bus duct scope was never truly called out in any design drawings or documents. Engineering was not able to access the duct pre-job to identify existing conditions and create a design based upon this for the new substation equipment install. Drawings for which TEI developed pricing for stated “Metal enclosed bus duct & support structure to be reworked by contractor”. It was not until work began moving forward that the duct was found to be a complete and complex system. Modifications were not feasible to retrofit the existing duct to the new equipment and it was deemed replacement would be necessary
- Thompson Electric reasonably accounted for in our pricing work associated with the bus duct modifications given the existing conditions and details provided to us with the bid package. All work detailed below is deemed to be above and beyond our initial scope and what was planned out by engineering pre-job. Our subcontractor RMS Energy will be assisting in this design and procurement as detailed below
- An engineering site visit was performed to take all necessary measurements to build the tap box for this equipment. From that site visit and engineering we will supply the following materials assembled ready for installation.
- RMS Energy is to provide material necessary for the scope, build the tap box at their shop, deliver tap box to site, and field test the tap box after installation is completed.
- RMS Energy to supply (1) outdoor bus duct tap box:
 - Aluminum Housing 36" W x 24" T x 24" D
 - 1/4" Aluminum Housing, with mounting flange
 - 1/4" Copper Bus – 12 feet rated at 95KVBIL
 - GP03 Bus Brace
 - Box Support Assembly
 - Bus boots, gasketing materials and hardware
- The current lead time for materials is 6 weeks after the order is received and processed.
- Bushings ordered by the City of Hudson will be utilized in this design
- RMS Energy to test insulation resistance, dielectric withstand and contact resistance of the pre-built tap box prior to delivery
- TEI to field install bus duct to existing equipment and switchgear



49 Northmoreland Ave., Munroe Falls, OH 44262
P (330) 686-2300 F (330) 686-2362

- RMS Energy has included field testing time after TEI installs. Field testing will be similar to shop testing but will extend past the tap box to verify electrical integrity of connections

Price Breakdown:

RMS design, procurement, prefabricated installation and testing: \$37,885.10

TEI labor and equipment for field install: \$13,333.37

Jeff Eckelberry

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Estimator/Project Manager

Thompson Electric, Inc.

49 Northmoreland Ave.

Munroe Falls, Oh 44262

(330)-620-9739

jeckelberry@thompsonelectric.com

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