

Over and Above Estimate

Region: 5

Location: MD020

CSS #: 16301

Asset # 2065

Maximo Work Order No.: 6444

Date Issued: 11/15/18

Original Description: Install E-Stop on boiler 1 and 2, no emergency boiler disconnect

Repair Needed: S&S hereby proposes to install 2 push to stops on all equipment in boiler system as in accordance with NFPA 79: 2007 and ASME CSD-1.

- S&S will install emergency push buttons at each egress location (2) to allow the building personnel to shut equipment down in case of emergency.
- S&S will install all necessary conduit for push buttons
- S&S will install all wiring and contactors for the control of the 2 boilers in the mechanical room.
- S&S will perform all operational checks and ensure boilers go off and return to service once controls are turned back on.

Non Pre-Priced Estimate:

Quantity	Line Item Number	Description	Labor Hours	Unit	Labor	Materials	Equipment	Total
1	NA	Diagnostic Labor: \$250.000 1 HVAC Technician/2.5hours/ Rate \$100.00 per hour	2.5		250.00			250.00
1	N/A	Labor: 2 Technicians /2days/36hrs/ Rate \$100.00 per hour	36		\$3,600.00			\$3,600.00

1	N/A	20ft Emt/98001002001 = \$9.49 Compression connectors/78456420650/ QTY6 = \$1.68 ½ Pulling L/01899783105/QTY2 = \$9.78 ½ One hole straps/01899700370/QTY4 = \$0.31 Hoffman box/78351042510= \$26.49 Contactor/64158 = \$137.94 Wic thhn wiring/98010022900 = \$71.65 Push buttons/78590184877/QT Y 2 = \$301.26 Push contacts/78590188000/OT Y 2 = \$67.92			\$626.52	\$626.52	

Note: RS Means (Pre-Priced) not used in compiling this estimate.

Note: Subcontractor quote attached.

Estimate Summary:

Labor Hours	Labor Cost	Material Cost	Diagnostic Labor	Total Cost	CE Factor	Total Estimate
36	\$3600.00	\$626.52	\$250.00	\$4,476.52	102%	\$4,566.05

Note: Original SC diagnosis of \$250 is included in O&A