



## CITY OF MARSHALL AGENDA ITEM REPORT

<b>Meeting Date:</b>	Tuesday, July 28, 2020
<b>Category:</b>	AWARD OF BIDS
<b>Type:</b>	ACTION
<b>Subject:</b>	Consider Award of Bids for fire station electrical service change out.
<b>Background Information:</b>	<p>The 2020 City of Marshall capital improvement plan included this project to change out the electrical service and all the breakers at the Marshall fire station. The project would convert 480/277v, 600-amp, 3 phase switch gear Federal Pacific breakers to 208/120v 600-amp 3 phase switch gear square D breakers. This proposal would also include an automatic transfer switch for the addition of a generator. This will be crucial in the event of power loss so we can get the equipment out of the fire station. The above description is tabulated in the base bid. There was an alternate bid option to supply a 90 kw, natural gas-powered generator. This project will be coordinated with MMU so they can also change out the transformer behind the building as they've been wanting to complete this project for a long time.</p> <p>The justification for this project is that Federal Pacific circuit breakers are notorious for sticking open and catching fire. Multiple tests done on the breakers since the 1980s have proven that one in four Stab-Lok breakers (currently in the fire station) are defective and will not properly trip off. Unfortunately, when the testing began in the early 1980s, a New Jersey court later ruled that Federal Pacific Electric committed testing fraud and a cover-up, labeling the breakers as meeting the standards set by the UL (Underwriters Laboratories) when they were defective. In 1983, the Consumer Product Safety Commission closed its two-year investigation and felt it impossible to create a product recall at the time because of budget issues, even as Federal Pacific panels and breakers continued to be installed in millions of homes and businesses that to this day still run the risk of an electrical fire. An estimated 2,800 fires each year directly result from Federal Pacific panel breaker malfunction. Federal Pacific Electric has been out of business for many years, but the danger is still ever present.</p> <p>The only price not included in this project is the stand for the transfer switch, which will be fabricated by a 3<sup>rd</sup> party local vendor. Estimate received for this stand to fabricate is not to exceed \$400.00</p>
<b>Fiscal Impact:</b>	\$30,766.91 + Cost of transfer switch stand. This project was included in the 2020 Capital Levy for a \$45,000 budget
<b>Alternative/ Variations:</b>	No alternative actions recommended
<b>Recommendations:</b>	Accept base bid from Heartland Mechanical, Inc. for \$30,766.91 with no alternate. Transfer switch stand cost to be paid direct to the vendor.