**Automobile Service Repair Underground Storage Tank Fuel Line Cathodic Protection**

**Location:**

Rayburn Correctional Center

27268 Highway 21 North

Angie, LA 70426

**Scope of Work:**

Contractor shall provide all equipment, labor, tools, and materials to remove one (1) existing rectifier and six (6) impressed current anodes, and replace with new.

**Requirements:**

* Contractor shall remove existing rectifier and replace with one (1) ES-11 20V-10A rectifier with ammmeter and voltmeter, or equal.
	+ If not bidding as specified, please specify rectifier bidding:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Rectifier requirements:
	+ To be one hundred twenty (120) volt, AC single phase input
	+ To have circuit breakers, no fuses
	+ To have a heavy-duty case for post or wall mount
	+ To have a cabinet that opens allowing total access to components
	+ To have a voltmeter and ammeter
	+ To have eighteen (18) step voltage control taps
	+ To have silicon rectifying elements
	+ To have AC and DC lightning protection
	+ To have an AC input thermal block
	+ To have accessible front panel total precision shunt
	+ Standard outputs: 6V-5A, 6V-10A, 12V-5A, 12V-10A, 20V-5A, 20V-10A, 30V-5A, 40V-5A
	+ Contractor shall cut six (6) {one (1) for each anode} twelve (12) inch by twelve (12) inch squares in existing concrete and auger down to remove dirt and install new anodes. Contractor shall replace concrete.
* Contractor shall install one (1) 8-anode, 3-tank junction box near rectifier.
* New #10 cables will be connected to new junction box which will connect to the new rectifier.
* Contractor shall install six (6), three (3) inch by sixty (60) inch, impressed current anodes with one hundred fifty (150) foot #10 cable. Impressed current anodes shall be constructed of mixed metal oxide, or equal.
	+ If not bidding as specified, please indicate anode material:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Contractor shall cut a trench in existing concrete approximately two (2) inches deep, three-sixteenths (3/16) inches wide, and one hundred fifty (150) feet long for #10 cables to be run into.
	+ All new anodes shall be terminated at the new rectifier. All electrical connections shall be terminated by contractor.
	+ After cables have been connected, contractor shall fill trench with waterproof protective sealant.

**Other Requirements:**

* Employees for contractor must pass background check before they are allowed entry into facility.
* Contractor shall be responsible for removal and cleanup of all debris resulting from work performed (excluding concrete).
* Contractor shall provide documentation showing that system is operating within parameters set forth by DEQ UST division before job is considered complete.
* Contractor must be on DEQ approval list for installation, repair, diagnostic, and testing of UST {underground Storage tank} system for fuel storage at the time of the bid opening.