

Elmer Thomas Park Electrical Project PU 21-05

The City of Lawton is seeking proposals to install an electrical distribution system to service pedestal along NW 6th street from a three phase 440-volt PSO power supply. The proposal will be labor and material, conduit, wire, removable pedestals, stepdown low voltage transformer, disconnect, meter loop, circuit protection and design sizing.

Scope of Work/Requirements

1. The proposal shall include all labor material and design to provide a complete distribution system for phase 1 system east side of NW 6th street
2. All work shall comply with current city, state, and NEC electrical codes..
3. Pedestals shall be constructed to be removable for storing when not in uses.
4. The power demand for each circuit shall be 120-volt 20 amp.
5. Each pedestal shall have two circuits with duplex weather tight receptable for each circuit
6. The Electrical equipment shall be UL listed.
7. All electrical shall be placed inside PVC electrical conduit. Ridged steel pipe long sweep bend with riser shall be used on all conduit that approach the ground level.
8. Mounting hardware, Brackets, steel conduit, junction boxes, and appurtenances shall be hot dipped galvanized coated.
9. Design submittal shall accompany Bid for evaluation of proposal.
10. Design shall include in the Distribution panel and stepdown transformer service for Phase 1 and Phase 2 system on west side of NE 6th Street. Design shall include a Minimum 10% spare circuits with breakers for future needs
11. System back plate rack shall be sized to accept a phase 3 distribution panel in addition to phase 1 & 2 panel and space to set a phase 3 stepdown transformer. Phase 3 will feed south along NW 6th Street. All work except the back plate rack for phase 3 are not part of this proposal.

12. Restoration of all excavation shall be made and compacted topsoil installed
13. Phase 1 and Phase 2 site layout is included in bid package for use to prepare proposal. Phase 2 underground distribution conduit and electrical conductor and pedestal are not part of this proposal.
14. Two Spare removeable pedestals and receivers shall be supply for replacements.
15. Ground fault protection shall be supplied on all receptacles.
16. Electrical equipment:
 - a. Manufacturing Durability: All exposed components shall be constructed of corrosion resistant material and/or coated to help prevent corrosion. All exposed carbon steel shall be hot dip galvanized per ASTM A123. All exposed aluminum shall be powder coated with high performance polyester or anodized. All exterior reflective inserts shall be anodized, coated, and protected from direct environmental exposure to prevent reflective degradation or corrosion. All exposed hardware and fasteners shall be stainless steel, passivated and coated with aluminum-based thermosetting epoxy resin for protection against corrosion and stress corrosion cracking. Structural fasteners may be carbon steel and galvanized meeting ASTM A153 and ISO/EN 1461 (for hot dipped galvanizing), or ASTM B695 (for mechanical galvanizing).
17. All grounding shall be provided to meet NEC and City adopted Codes,
18. WARRANTY AND GUARANTEE
 - a. 2-Year Warranty: Each manufacturer shall supply a signed warranty covering the equipment provided or contractor shall supply a warranty for two years.

Instructions to Bidders

The contractor shall always remain responsible for his equipment and materials being utilized upon the City of Lawton property, as well as any equipment and materials which belong to the City of Lawton and has been handed over to the contractor for execution of the works. The City of Lawton shall not be responsible for any damage or loss of such equipment and materials.

Bid submissions must include the following:

1. Means and Methods for complete execution of the works, including but not limited to:
 - a. Type and efficiency of new electrical Distribution system.
2. Details of projects performed in the past of similar scope along with references.
3. Priced Bid
4. Work shall be completed by November 20th.
5. Manufactures product data sheet.
6. Design layout and calculation.