

SCHNEIDER ENGINEERING, LTD.



**PROPOSAL**  
OLD SAN ANTONIO ROAD ELECTRICAL FEEDER PROJECT

PREPARED FOR  
CITY OF BOERNE

SEPTEMBER 16, 2016

**CLIENT:** City of Boerne  
**PROJECT:** Old San Antonio Road Electrical Feeder Project

**SCOPE OF WORK:**

Reconductor existing line to double circuit 336 ACSR from Industrial Drive to Highway 46.

The Schneider Engineering (SE) team is pleased to present this Proposal to provide Engineering Services for the proposed Old San Antonio Road Electrical Feeder Project. Our estimate for the services as detailed below is **\$53,995**. Based on an initial review of the project scope the construction cost for the complete rebuild is approximately **\$400,000**. Considering the new poles, conductor and framing installed to date; the estimated labor and material cost is approximately **\$180,000** to make the existing line ready for double circuit 336 ACSR and install the conductor including labor and materials. Based on our current understanding of the project, we estimate construction of the project will take approximately 8-10 weeks.

*Project Overview:*

The proposed project consists of installing double circuit 336 ACSR from Industrial Drive to Highway 46 along Old San Antonio Road, Frey Street, Oak Park Drive and Herff Road. Part of this line has existing double circuit 336 ACSR and many of the poles are framed and ready for the proposed double circuit line.

*Assumptions:*

The following assumptions were made based on the information provided to date. If additional information and/or clarifications require these assumptions to change then an update to the scope and budget may be required.

*Scope of Basic Services:*

- Field survey of existing facilities to:
  - Prepare list of construction units required to make existing line ready for proposed double circuit 336 ACSR.
  - Verify existing structure and guying strength.
  - Profile existing and proposed conductor clearances.
  - Stake structures for reference to design drawings.
- Engineering Design:
  - Preparation of plan and profile drawings showing proposed route.
  - Preparation of TXDOT permit exhibit, application to be submitted by the City.
  - Preparation of staking sheets detailing existing and required units on each pole along with retirement units.
  - Stringing Charts
  - Construction Unit Drawings and Material Specifications.
  - Project Bill of Material. Materials are to be provided by the Contractor as part of the construction contract.
- Bidding and Contracting Support to include:
  - Preparation of Bid and Contract documents.
  - Participation in Pre-Bid meeting.
  - Contractor Solicitation
  - Bid Evaluation and Recommendation

- Construction Support to include:
  - Participation in Pre-Construction meeting.
  - Contractor Submittal Review including review of Traffic Control Plan.
  - Contractor Invoice Review
  - Have staff available during construction to respond to Contractor questions and/or RFI's. (Budgeted at 4 hours per week of engineer time.)
  - Review change orders and make recommendations.
  - Construction Inspection including day to day and final walk-thru. (Budgeted at 4 hours of inspection time per week)
  - Prepare Record Drawings
- SE scope of work excludes:
  - Right of Way clearing for surveying purposes. Right of way clearing for construction will be included in Contractor's proposal.
  - Re-route of existing line or any new line sections or tie-lines.
  - Survey of underground facilities beyond noting above ground markers.

**PROJECT COST:**

The engineering services estimate of **\$53,995** is based on the Scope of Basic Services detailed above and itemized in the list below.

TASK	MAN-HOURS	DURATION	COST
30. Project Management	27		\$3,455
A. Field Survey (two man crew)	169	Three Weeks	\$16,930
B. Engineering	156	Four Weeks	\$17,180
C. Bidding and Contracting	59	Four Weeks	\$6,715
D. Construction Support	87	Approx. 8-10 weeks	\$9,715

PRELIMINARY SCHEDULE	START DATE	END DATE
Engineering	9-14-2016	12-2-16
Bidding	1-9-2017	3-3-2017
Material Procurement	3-6-2017	4-28-2017
Construction	5-1-2017	6-30-2017
Completion Deadline		9-1-2017

**DELIVERABLES:**

As a minimum the following shall be supplied by SE:

- 30% Plan View drawing for review by the City.
- 90% Review/Bid Package including Plan and Profile, Staking Sheets, Bill of Material, TXDOT permit Exhibit and Specifications.
- 100% Construction Package including Plan and Profile, Staking Sheets, Bill of Material, TXDOT Permit Exhibit and Specifications.
- Bidding and Contract Documents including General Conditions and Specifications.
- Documents will be provided in electronic PDF format as well as hardcopies.

**COMPENSATION:**

Schneider Engineering, Ltd. will perform the services under this agreement related to the above referenced Scope of Work and will provide to the City of Boerne itemized invoices for services performed. Services will be billed on an hourly/work performed basis. Fees will be based on actual work performed. The estimated not-to-exceed budget of the above referenced Scope of Work is **\$53,995**.

My signature below is my approval of this proposal for Schneider Engineering to complete the Scope of Work for the terms listed above.

**Submitted:** \_\_\_\_\_

  
J. Nakee Laws P.E., Vice President

**Date:** 9/16/2016

Your signature below will serve as authorization for Schneider Engineering to commence work on this project. Please let us know if you have any questions or require anything further.

**Approval:** \_\_\_\_\_

**Date:** \_\_\_\_\_