

4/2/13

RESOLUTION NO. _____

A RESOLUTION AUTHORIZING THE ADMINISTRATOR OF THE DEPARTMENT OF PUBLIC WORKS TO ENTER INTO AN AGREEMENT WITH VOLKERT, INC. FOR PROFESSIONAL SERVICES RELATIVE TO CONTRACT NO. E-12-008-101, DESIGN OF GUNBARREL ROAD WIDENING FROM SHALLOWFORD ROAD TO HAMILTON RUN DRIVE, FOR AN AMOUNT NOT TO EXCEED ONE HUNDRED FORTY-FOUR THOUSAND SIX HUNDRED DOLLARS (\$144,600.00).

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF CHATTANOOGA, it is hereby authorizing the Administrator of the Department of Public Works to enter into an agreement with Volkert, Inc. for professional services relative to Contract No. E-12-008-101, Design of Gunbarrel Road Widening from Shallowford Road to Hamilton Run Drive, for an amount not to exceed \$144,600.00.

ADOPTED: _____, 2013.

/ss

City of Chattanooga



Resolution/Ordinance Request Form

Date Prepared: 3/18/13

Preparer: Dennis Malone

Department: Public Works

Brief Description of Purpose for Resolution/Ordinance:

Res./Ord. # _____ Council District # 4

A Council Action is requested for the Administrator of the Department of Public Works to enter into an agreement with Volkert, Inc., for professional services, relative to Contract No. E-12-008-101, Design of Gunbarrel Road Widening from Shallowford Road to Hamilton Run Drive, in an amount not to exceed \$144,600.00.

Name of Vendor/Contractor/Grant, etc.	<u>Volkert, Inc.</u>	New Contract/Project? (Yes or No)	<u>No</u>
Total project cost \$	<u>144,600.00</u>	Funds Budgeted? (YES or NO)	<u>Yes</u>
Total City of Chattanooga Portion \$	<u>144,600.00</u>	Provide Fund	<u>4016</u>
City Amount Funded \$	<u>144,600.00</u>	Provide Cost Center	<u>K12150</u>
New City Funding Required \$	<u>0</u>	Proposed Funding Source if not budgeted	_____
City's Match Percentage %	_____	Grant Period (if applicable)	_____

List all other funding sources and amount for each contributor.

Amount(s)	Grantor(s)
_____	_____
_____	_____
_____	_____

Agency Grant Number _____

CFDA Number if known _____

Other comments: (include contingency amount, contractor, and other information useful in preparing resolution)

Approved by: 

Reviewed by: FINANCE OFFICE

DESIGNATED OFFICIAL/ADMINISTRATOR

Please submit completed form to @budget, City Attorney and City Finance Officer

Revised: 1/26/09

ROADWAY DESIGN SCOPE OF SERVICES

E-12-008-101
Gunbarrel Road Widening
City of Chattanooga, Tennessee

The Engineer agrees to provide the following services:

Basic Services:

1. Design Services:

- A. The Engineer will prepare Plans, Profiles, Details, Typical Sections and Cross Sections for Gunbarrel Road Widening (from Shallowford Road to McCutcheon Road) in accordance with the Specifications and Standard Details of the City of Chattanooga.
- B. The typical section of the project is anticipated to be an urban typical section with a sidewalk on the west side only. A fifth lane will be added to Gunbarrel Road on the east side from Shallowford Road to Preston Circle. Gunbarrel Road will be widened to four lanes from the limit of the existing four lane section to McCutcheon Road. North of McCutcheon Road, Gunbarrel Road will quickly narrow from three lanes back to the existing two lane section.
- C. The project is anticipated to utilize 100% local funds.
- D. The Engineer will design storm sewer systems and structures within the project limits as stated above and coordinate with City of Chattanooga Storm Water Section as necessary. The drainage design shall be in accordance with the current City of Chattanooga requirements. It is anticipated that the cross-drain on Gunbarrel Road, just north of Preston Circle, is currently undersized and will be replaced with a larger pipe/box culvert, but further drainage modifications of the system downstream are not anticipated.
- E. The Engineer will coordinate with the City of Chattanooga and Utility Owners. All Utility owners will be contacted and existing utilities shown on the drawings based on field survey provided by City, GIS information and additional information as provided by the Utility Owners. Any new utility locations will also be shown, for reference only, as provided by the Utility Owner. Utility relocation plans are not within the scope of this project, other than adjustment of sanitary sewer lids.
- F. It is anticipated that a standard TDOT gravity retaining wall will be required along the eastern side of Gunbarrel Road between Shallowford Road and Preston Circle. A different retaining wall type, requiring a retaining wall design, is not within the scope of this contract. If desired, an alternate wall design cost can be provided as outlined in Additional Services below.
- G. The engineer will calculate construction quantities and prepare cost estimates in the City of Chattanooga standard format, and monitor the cost estimate throughout the design.
- H. The engineer will attend a Kickoff meeting and perform a Survey/Conceptual Design Field Check as well as attend Preliminary, R.O.W., and Construction field review meetings.
- I. The engineer will also prepare Specifications referencing the City of Chattanooga Standard Specifications for this project and will provide supplemental specifications and/or details when needed.

J. It is anticipated that this project will be designed and constructed as one project.

2. Bidding Services:

The engineer will provide professional services associated with solicitation of bids, including but not limited to the following:

- A. Attend Pre-bid meeting
- B. Attend Bid opening
- C. Answer bidders questions
- D. Prepare addendums
- E. Bid comparison / tabulation
- F. Bid recommendations
- G. Prepare contract book

3. Construction Phase Engineering Services:

The engineer will provide Construction Phase Engineering Services for this project as described below:

- A. Attend and participate in the pre-construction conference and construction progress conferences and record minutes of meetings.
- B. Provide electronic data to the contractor for accurate layout of the project.
- C. Review contractor's submitted progress reports for conformance with the contract requirements and general acceptability. Monitor contractor's performance in accordance with the contract documents.
- D. Review and make recommendations concerning substitute materials and equipment, detailed construction drawings, shop drawings, and other detailed information submitted by contractor for approval. Advise the contractor and the owner of review comments.
- E. Review and approve or make recommendations relative to laboratory test reports on materials.
- F. Interpret contract requirements as they relate to the various phases of contractor's work, and answer contractor questions concerning the design of the project. In addition, prepare all sketches and specifications as necessary to resolve problems encountered during construction due to actual field conditions.
- G. Make periodic visits to the construction site to observe, monitor, and document contractor's compliance with contract requirements.
- H. Verify contractor's periodic estimates for partial payment and provide recommendations concerning payments to the Owner upon request.
- I. Coordinate the scheduling and attendees in conjunction with the Owner for the Final Construction Inspection. Conduct the Final Construction Inspection and prepare a Final Punch List on behalf of the City of Chattanooga.

Supplemental Services:

1. SWPPP Preparation:

The Engineer will prepare the Storm Water Pollution Prevention Plan (SWPPP) in accordance with TDEC requirements. Preparation of additional permit applications is not a part of this agreement, but if required, they can be provided as Additional Services if requested by the City Engineer.

2. Signal Design (Shallowford Road at Gunbarrel Road):

The Engineer will prepare the signal design for the modifications to the existing signal at Shallowford Road at Gunbarrel Road. The design will be in accordance with City of Chattanooga and TDOT requirements. The signal design plans will be incorporated into the overall plan set.

3. Right-of way Documents:

The engineer will prepare right-of-way documents so that the Owner can purchase the required right-of-way and easements to construct the roadway. The right-of-way documents that the Engineer is to provide includes right-of-way plats and right-of-way deed descriptions on standard Owner forms. A maximum of 19 properties / plats are anticipated.

4. Geotechnical Investigation Services:

Volkert will subcontract with S&ME, Inc to provide Geotechnical Investigation Services consisting of: eight pavement cores to evaluate the existing base and pavement depth, eight auger borings (to 10' deep) adjacent to the road to evaluate the depth of existing rock, two holes (to 20' deep) to evaluate the retaining wall foundation, and one Plasticity Index Test and five natural moisture tests. A Geotechnical Report will provide recommendations for the wall and site preparation, and presenting the pavement and rock profile boring data.

5. Record Drawings:

After construction has completed, the engineer will reflect field changes made during construction on record drawings. The drawings will incorporate all appropriate asbuilt information furnished by the contractor and observations and records maintained by the inspection personnel. One (1) set of reproducible drawings will be delivered to the City including electronic files in CADD format. The Record Drawings will remain in the designed scale and unit format.

6. Additional Services:

Any work requested by the Owner that is not included in the above Scope of Services will be classified as Additional Services. Any major changes to the design plans after the

Preliminary (30%) review meeting may be considered Additional Services for this contract. Additional Services will not be performed without prior approval of the City Engineer.

7. Reimbursable Expenses:

Project specific reimbursable expenses will be considered the amount of actual costs of project related expenses or charges times a markup of 5%. Charges for use of computer equipment or software, local telephone, local travel, project photographs, and miscellaneous supplies, are not considered reimbursable charges. Allowable project-specific reimbursable expenses shall be limited to the following: permitting fees, paper reproduction costs unless approved by the City Engineer. If the allowable project-specific reimbursable expenses exceed the budgeted amount, the additional expenses will be charged to Additional Services.



CITY OF CHATTANOOGA
STANDARD AGREEMENT FOR ENGINEERING SERVICES

ATTACHMENT B1

Owner: City of Chattanooga, Tennessee
 Engineer: Volkert, Inc.
 Project Number & Name: E-12-008-101
 Gunbarrel Road Widening

COMPENSATION

For the services covered by this Agreement, the Owner agrees to pay the Engineer as follows:

1. For the Basic Services described in Attachment A, a Total Lump Sum Fee of \$ 75,000.00. The fee will be broken down in the following categories:

Basic Services:

Roadway Design Services:	A Lump Sum Fee of	\$ 57,500.00
Bidding Phase Engineering Services:	A Lump Sum Fee of	\$ 3,000.00
Construction Phase Engineering Services:	A Lump Sum Fee of	\$ 14,500.00
		\$ 75,000.00

Supplemental Services:

SWPPP Preparation:	A Lump Sum Fee of	\$ 7,500.00
Signal Design (Shallowford Rd at Gunbarrel Rd):	A Lump Sum Fee of	\$ 10,000.00
Right-of-way Documents:	A Lump Sum Fee of	\$ 26,600.00
Geotechnical Investigation Services:	A Lump Sum Fee of	\$ 6,000.00
Record Drawings:	A Lump Sum Fee of	\$ 6,000.00
Additional Services:	A Cost Not To Exceed Fee of	\$ 10,000.00
Reimbursable Expenses:	A Cost Not To Exceed Fee of	\$ 3,500.00
		\$ 69,600.00

Grand Total Award: \$ 144,600.00

Supplemental Services: (Future Consideration)

RPR Services:	A Cost Not To Exceed Fee of	\$ 90,000.00
		\$ 234,600.00

Payments shall be made monthly in amounts which are consistent with the amount of engineering services provided, as determined by the Engineer.