

CITY COUNCIL AGENDA SUMMARY
PROFESSIONAL SERVICES AGREEMENT
BETWEEN THE CITY OF WYLIE and BINKLEY & BARFIELD, INC.

W2009-3-E AMENDMENT #6

Project Description:

The original scope of services for this project included design of approximately 8,200 linear feet of four lane concrete roadway with sidewalks on McMillen Road from McCreary Road to Country Club Road. The original contract for this project was awarded on March 10, 2009, in the amount of \$1,002,300.00. There have been five approved amendments for a total of \$18,300 which brings the current contract total to \$1,020,600. The pre-final construction plans were approved, and design was placed on hold for funding and for right of way/easement acquisition.

During the time that this project was placed on hold, there have been changes to the right-of-way/easements that were originally proposed, and there have been changes in government regulations. Both changes will require additional design services. In addition there have been changes along McMillen Road from McCreary Road to Country Club Road. Changes include construction along McMillen Road for new development, a new traffic signal at McMillen Road and Country Club Road, modification to the traffic signal at McMillen Road and Country Club Road for expansion of Country Club Road, planned construction of a new fire station along McMillen Road, new franchise utilities have been placed along McMillen Road, and there have been changes to street lighting design standards.

The consultant will work to finalize the existing plans for bidding and construction. The pre-final plans will need to be revised to reflect all changes that have occurred since its submittal in 2011.

Project Services:

Task 1 – Topographic Survey

Additional Topographic survey is required at three different locations.

Location #1

The original survey for this project was completed in 2009. Since then, there has been development along the north side of McMillen Road. The development begins at McCreary Road and extends approximately 3,650 linear feet east of McCreary Road. The development includes construction of Walmart, the Creekside South apartment complex, and the Creekside residential development.

Additional topographic survey of this area will be required so the development can be accurately shown on the plans. Existing streets, driveways, sidewalks, inlets, screening walls, landscaping and natural ground elevations will be needed to update the paving and drainage design.

Location #2

The pre-final construction plans included design offsite sedimentation pond. Excavation of the offsite sedimentation pond was used to offset the fill required to construct the proposed bridges.

The location of the sedimentation pond is no longer available; therefore, excavation will need to occur in a new location.

One of the new locations will be underneath the proposed bridge within right-of-way Parcel #6, right-of-way Parcel #7 and within the permeant drainage & roadway easement for Parcel #6 PE3.

Additional topographic survey in this area is needed for mass grading which will count towards the required excavation.

Location #3

There is an existing stream channel and two ponds located along the north side of McMillen Road approximately 1,100' west of Country Club Road. The existing stream crosses under McMillen Road through a 60" CMP. The drainage design shown in the pre-final plans regrades the channel and ponds in this area. This area is located within drainage easement Parcel #9, temporary construction easement Parcel #9 TE2 and temporary construction easement Parcel #10 TE.

The environmental report completed in 2012 identified the stream and pond in this area as WOTUS. The environmental report determined that a 404 Permit would be required from the U.S. Army Corp of Engineers (USACE) and a mitigation fee would be required for construction over the WOTUS.

The mitigation fee can be reduced if the proposed drainage design shown in the pre-final plans is revised and construction in this area is reduced.

Additional topographic survey in this area is required to revise the design.

Task 2 – Site Grading

Paving grades, as shown in the pre-final design plans will need to be revised based on the topographic survey for Location #1.

Site grading is required at Location #2. The site grading for this area will provide excavation needed to offset the fill required for USDA-NRCA approval.

A revised grading plan will be needed to modify the drainage design at Location #3. The grading will reduce the environmental impact along the WOTUS.

Task 3 – Bridge Design

With the new requirements from the USDA-NRCA, and without the original location for excavation of an offsite pond, excavation at Location #2 and excavation of a pond at the City of Wylie Park Land location will not be enough to offset the fill needed for construction of the twin 310' long bridges as proposed in the pre-final design plans. Because there is a limited amount of excavation, the best way to obtain an equal compensation of fill is to reduce the volume of fill needed to construct the proposed bridges. This can be accomplished by increasing the length of the proposed bridges.

Bridge plans and specifications will be prepared for a set of twin bridges on McMillen Road over Muddy Creek. The exact length of the twin bridges will be determined through coordination with the USDA-NRCA and with the site grading calculations from Task #3 & #4.

The bridge length is expected to be between 600' to 700' long if the minimum design elevation is between 525.8' and 529'. Increasing the bridge length will reduce the amount of fill within the USDA-NRCA waterway which will require less excavation within the SCS Spillway.

Task 4 – Environmental Services

The previous environmental report was completed in 2012 for this project. The report identified and delineated WOTUS along the project site. Per Section 404 of the Clean Water Act (1972) a permit from the USACE will be required for construction of McMillen Road. The permit will require an updated delineation of the WOTUS in the field.

Environmental regulations have changed since the time of the original report. The previous environmental report will need to be updated to reflect the latest changes in stream mitigation costs.

Task 5 – LED Street Lighting

The pre-final plans submitted in 2011 included Street Light Plans. These plans included conduit and foundation locations for streetlight poles. Since the time of submittal, LED lighting has become standard and the requirements for spacing and illumination layouts have changed. The Street Light Plan sheets will need to be updated to reflect this change.

Additionally, the pre-final plans did not include any electrical design or wiring plan to energize the streetlights. At the time of submittal, this was a service that was provided by the power company. This service is no longer provided by the power company and will need to be included in the revised Street Light Plan sheets.

Streetlight pole Illumination plans and specifications will be prepared for McMillen Road from McCreary Road to Country Club Road using LED lights in the median.

Task 6 – Traffic Signal at Fire Station #4

In 2011, when the pre-final plans were submitted, design plans for Fire Station #4 were not completed and the design was not included in the McMillen Road plan set. Since the time of submittal, design for Fire Station #4 has been completed and is set for construction. A request has been received from the City of Wylie Fire Chief to include a traffic signal in front of Fire Station #4 into the final plans for McMillen Road. It is not practical to include this traffic signal in the current construction plans for Fire Station #4. Due to the widening of McMillen Road, if the traffic signal is installed in conjunction with the Fire Station, it would need to be removed and relocated once construction of McMillen Road begins.

Traffic Signal plans and specifications will be prepared for McMillen Road at the proposed location of Fire Station #4.

Task 7 – Traffic Signal Modifications (McMillen Road at County Club Road)

Since the time of the original survey for McMillen Road, the existing traffic signal at the intersection of McMillen Road and Country Club Road was relocated for widening/improvements along Country Club Road.

The existing traffic signal is in conflict with proposed widening of McMillen Road and will need to be relocated. Additionally, the sidewalk, barrier free ramps and cross walk stripping will need to be revised.

Traffic signal plans and specifications for modification of the existing traffic signal at McMillen Road at Country Club Road will be provided with proposed pavement markings and proposed sidewalks with barrier free ramps.

Task 8 – Level D & C SUE Services

When the topographic survey for this project was completed in 2009, the scope of services provided by the surveyor included a call to Texas 811 for field locates of existing franchise utilities. Texas 811 marked existing utilities in the field and these locates were picked up by the surveyor and were shown in the pre-final plans submitted in 2011.

The existing franchise utilities shown in the pre-final plan set do not need to be re-drawn or re-located. However, since the time of submittal, new franchise utilities have been installed along McMillen Road. These new franchise utilities need to be identified and added to the final construction plans and the location of the previous utilities needs to be confirmed.

Level D SUE Services is defined as information derived from existing records or oral recollections. Level C SUE Services is defined as information obtained by surveying and plotting visible above ground utility features and by professional judgement in correlating this information to Level D SUE Services.

Level D & Level C SUE Services will be required to identify all utility companies and to facility relocation of conflicting utilities during the utility coordination phase.

Task 9 – Utility Coordination

There are existing underground franchise utilities along McMillen Road, there are also franchise utilities located on power poles along McMillen Road. Along the west side of McMillen Road, franchise utilities are located within the public right-of way. Along the middle of McMillen Road, there is no existing right-of-way and franchise utilities are located within an existing Coserv utility easement and an existing Verizon utility easement. Along the east side of McMillen Road, there are no existing utility easements and no existing right of way along the north side of McMillen Road. Franchise utilities located on power poles are on the north side of McMillen and not located within existing right-of-way. Underground franchise utilities located along the south side of McMillen are located within existing right-of-way.

Existing utilities located on power poles along the middle and east section of McMillen Road will need to be relocated for construction of McMillen Road. The proposed twin bridges along the middle section of McMillen Road will vary in height from up to twenty feet above natural ground. The proposed alignment for McMillen Road will cross over the existing utility easements in this area. The existing utilities along the power poles will need to be temporarily relocated for construction of

McMillen Road. Once construction is complete, the utilities will need to be relocated along the new McMillen Road alignment.

Utility coordination will be required to assist the City of Wylie with the research and documentation of existing franchise utility relocations along McMillen Road.

Task 10 – Additional Bridge Length (if needed)

If the minimum requirements for excavation to compensation for fill placed within the USDA-NRCA is based on an elevation between 529' and 533', the bridge design for a 600' to 700' long bridge will not be sufficient. The bridge will need to be extended for an additional 600'. This will bring the expected length to be approximately 1,000' to 1,200'.

If this task is required, cost for this task will be in addition to the cost for Task #3 Bridge Design. If a bridge length of 1,000' to 1,200' is not required, this task will not be used. Authorization from the City is required prior to proceeding with this task.

Bridge plans and specifications will be prepared for a set of twin bridges on McMillen Road over Muddy Creek. The exact length of the twin bridges will be determined through coordination with the USDA-NRCA and with the site grading calculations from Task #2.

Task 11 – Topographic Survey for the City of Wylie Park Land (if needed)

If excavation requirements for the USDA-NRCA cannot be achieved within the limits of the site grading along Location #2, and additional excavation site will be required. The additional site will be the City of Wylie's Park Land. Property ID # 2624530, Sage Creek Phase 1X (CWY), BLK B, LOT 2X.

Additional topographic survey will be needed in this area to design an offsite pond.

If additional excavation is not required. This task will not be used. Authorization from the City is required prior to proceeding with this task.

Task 12 – Site Grading for the City of Wylie Park Land (if needed)

With the new requirements from the USDA-NRCA, and without the original location for excavation of an offsite pond, excavation at Location #2 may not be enough to offset the amount of fill required to construct the proposed bridge. If additional excavation is needed, an offsite pond can be designed at this location. The pond will be located in the open space between the existing hike and bike trail on the westerly side of the property and the existing tree line located on the easterly side of the property.

If additional grading is not required, this Task will not be used. Authorization from the City is required prior to proceeding with this task.

Task 13 – Environmental Services for the City of Wylie Park Land (if needed)

The proposed site is owned by the City of Wylie and located within the USDA-NRCA Rowlett Creek Watershed Dam Number 4. It is also located within the FEMA floodplain.

Based on the location, if construction is required at this location, a routine wetland delineation will be required to identify any USACE jurisdictional waters that may be present at the subject property for purposes of permitting under Section 404 of the Clean Water Act (1972). An environmental report will be prepared to determine the impact on WOTUS for permit approval by USACE

If there is no proposed construction at this site, this task will not be used. Authorization from the City is required prior to proceeding with this task.

III. EXCLUSIONS

Task 7 – Traffic Signal Modification at McMillen Road and Country Club Road.

- Scope excludes design and use of a temporary traffic signal

IV. DELIVERABLES

At the completion of Tasks 1 through 8, Consultant shall ensure the delivery of the McMillen construction plans and specification to the City. The submittal shall include the following:

- a. Construction Plans
- b. Bid Specification Book
- c. Contract Documents
- d. Technical Specifications as required