

Consider approving agreement with Martinez, Wright & Mendez for work on CR 100 (funded from CO's) (Pct 4)

Moved: **Commissioner Limmer**

Seconded: **Commissioner Heiligenstein**

Motion: To approve agreement with Martinez, Wright & Mendez for work on CR 100(funded from CO's) (Pct 4)

Vote: 4 – 0 Commissioner Boatright absent from the dais.

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April 25, 2000

**Judge John Doerfler  
Second Floor  
Williamson County Courthouse  
Georgetown, TX 78626**

**Project: County Road (CR 100) Improvements  
Williamson County**

**Subject: Scope of Services and Fee Proposal  
Engineering Design and Surveying Services**

## 1. INTRODUCTION

Project Scope: The firm of Martinez, Wright & Mendez (MWM) Inc., will provide Engineer design and surveying services for the improvements of County Roads – CR100 from CR1660 west and north to approximately 3,300 ft. south of CR107. Improvements consist of reconstructing existing 20 ft. wide paved road to two – 12 ft. lanes with one ft. paved shoulder and 2 ft. unpaved shoulders and minor improvements to existing storm drainage ditches for 9,350 ft. General Criteria to consider are as follows:

- a. Design basis: AASHTO
- b. Design storm year: 25 years
- c. Design speed: 40 mph
- d. Design roadway cross section: 2 – 12 ft. lanes with 1 ft. paved shoulders and 2 ft base shoulder & side ditches
- e. Pavement type: HMAC, and flexible base
- f. Final Right-of-way width: as existing

## 2. SURVEYING SERVICES

Surveying services will be limited to the area within the existing Right-of-way of CR 100 as approximately shown on Exhibit "2" dated 3/15/00 and will be provided in accordance with the following:

- a. Establish horizontal control based on an arbitrary basis
- b. Establish temporary benchmarks approximately every 1,000 feet
- c. Locate on-grade or above-grade features.
- d. Provide contours at two foot intervals. Vertical control will be based on GPS data
- e. Locate trees 8" or greater in diameter
- f. Obtain available existing record information from utility companies and add to topographic base map
- g. Perform field ties to utilities. MWM will provide location accessible on-grade and above-grade utility features, spot elevations at accessible utility manhole covers, invert elevations and direction of flow accessible sewer and storm drain lines.
- h. Provide field ties to existing drainage structures
- i. Services that are not provided under this Agreement specifically include, but are not limited to: boundary survey; right-of-way/easement acquisition or vacation; digging or pot-holing for locating underground utilities or surveying within underground structures; coordinating and locating excavated/pot holed utilities; construction phase surveying; other services or expenses which may become necessary for the completion of this project but which are not reasonably anticipatable at this time. Such services may be performed as Additional Services to this Agreement, if authorized by Client

### 3. ENGINEERING SERVICES

- a. Preliminary Phase: Provide a preliminary report outlining key design criteria
- b. Design Phase: Contract drawings and Specifications
- c. Construction Phase: Construction administration only. Not full time site inspection.

### 4. PRELIMINARY DESIGN STUDY

- a. Collect & review available data
- b. Review core data and pavement design by Geotech
- c. Visual inspection of existing pavement conditions
- d. Determination of methods for pavement rehabilitation.
- e. Develop a design schematic for preliminary horizontal alignment
- f. Perform hydrological and hydraulic study and develop preliminary drainage plans
- g. Prepare preliminary reports that include the above information with final recommendations and preliminary Engineers opinion of probable construction value.

## 5. DESIGN PHASE

### a. Roadway Design

1. Develop plan/profile sheets
2. Develop intersection/driveway details
3. Refine the horizontal alignment of roadways
4. Prepare typical sections
5. Provide design for cross-sections
6. Miscellaneous road details
7. Compute quantities
8. Coordinate with TxDot (tie in at 1660)

### b. Drainage Design

1. Prepare drainage area maps showing existing conditions and proposed improvements
2. Prepare hydraulic computations for culverts and channels
3. Prepare hydraulic data sheets
4. Develop miscellaneous drainage details
5. Summary of quantities for drainage items
6. Develop erosion control plans per phase

### c. Signing, Pavement Markings and Signalization

1. Prepare signing and pavement markings layout
2. Prepare quantity summary of pavement markings

### d. Miscellaneous (Roadway)

1. Develop Traffic Control Plan (TCP), Detours, and Sequence of Construction layouts. A TCP shall be developed utilizing the MUTCD and the current TXDOT Barricade and Construction Standards. Contractor will be required to submit a detailed TCP where each phase should identify the existing and proposed traffic control devices that will be used to handle traffic during, each sequence of construction, including regulatory signs, warning signs, construction warning, signs, guide signs, route markers, construction pavement markings.

## 6. CONSTRUCTION ADMINISTRATION

- a. Engineer will conduct periodic site visits and reviews as necessary.
- b. Engineer will review shop submittals and field changes.

7. LETTING PROCESS

- a. Prepare twenty copies of construction plans and bid documents
- b. Provide copies of construction plans and bid documents to prospective bidders
- c. Accept completed bid documents
- d. Review submitted bid documents and recommend action relative to the award of contract to Williamson County

8. ADDITIONAL SERVICES

- a. Work not included in this proposal, change of the project scope or limits, or accelerating of the schedule will be deemed additional services. Additional services may be negotiated based on the hourly rates included in this proposal.

9. FEE PROPOSAL

- a. The contract amount for surveying and engineering is hourly not to exceed \$37,400.00. Payment: Payment will be made on a monthly basis as the number of hours completed for each phase, not to exceed the contract total. The hourly rates and classifications are attached (See Exhibit 1.)

10. REPRODUCTION OF DOCUMENTS

- a. Three sets of plans will be provided to the client. Any other reproductions will be considered a reimbursable expense.

11. GENERAL CONDITIONS

- a. Services which are not provided for in this scope of work specifically include, but are not limited to, preparation to traffic impact studies, traffic signals, Geotechnical analysis, hazardous site assessment, City fees, government permits, environmental impact assessments, and other work which is not reasonably able to be anticipated at this time. We may provide such services as additional services to our contract if authorized.

## 12. REIMBURSABLE EXPENSES

- a. Reimbursable expenses are defined as follows and shall be invoiced at direct cost (invoice) plus 10% for overhead unless specifically stated otherwise elsewhere in this agreement.
- b. Reproduction of more than 3 copies of the report.
- c. Shipping and mailing expenses to locations outside the County.
- d. Production of mylars.

## 13. USE OF DOCUMENTS

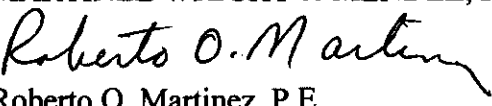
- a. All documents by Martinez, Wright, and Mendez, Inc. under this agreement are intended for specific purposes outlined in the Scope of Services and for the specific purposes outlined in the Scope of Services and for the specific site or sites discussed herein. Martinez, Wright, and Mendez, Inc. assumes no legal responsibility whatsoever for the use of these documents in any other endeavor without express written authorization from Martinez, Wright, and Mendez, Inc. Documents provided to the Client are for archival or administrative purposes only.

## 14. TIME OF COMPLETION: 120 days after Notice to Proceed

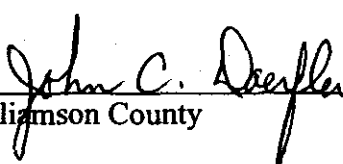
This proposal is only valid for a period of 30 days. If you concur please execute in the space provided below and return one copy for our files.

Sincerely,

MARTINEZ WRIGHT & MENDEZ, INC.

  
Roberto O. Martinez, P.E.  
President

Approval:

  
Williamson County

4-25-00  
Date

Consider approving agreement with Martinez, Wright & Mendez for work on CR132 and CR 136. (funded from CO's) (Pct 4)

Moved: **Commissioner Limmer**

Seconded: **Commissioner Heiligenstein**

Motion: To approve agreement with Martinez, Wright & Mendez for work on CR 132 and CR 136. (funded from CO's) (Pct 4)

Vote: 4 – 0 Commissioner Boatright absent from the dais.

<Clerk Copy Here>



April 14, 2000

**Judge John Doerfler**  
Second Floor  
Williamson County Courthouse  
Georgetown, TX 78626

**Project: County Roads (CR 132 & 136) Improvements**  
**Williamson County**

**Subject: Scope of Services and Fee Proposal**  
**Engineering Design and Surveying Services**

## 1. INTRODUCTION

Project Scope: The firm of Martinez, Wright & Mendez (MWM) Inc., will provide Engineer design and surveying services for the improvements of County Roads – CR 132 and 136 from US 79 west to CR 132 and from CR136 south to US 79. Improvements consist of reconstructing existing 20 ft. wide paved road to two-12 ft. lanes with one ft. paved shoulder and 2 ft. unpaved shoulders and minor improvement to storm drainage ditches.

General Criteria to consider are as follows:

- a. Design basis: AASHTO
- b. Design storm year: 25 years
- c. Design speed: 40 mph
- d. Design roadway cross section: 2 – 12 ft. lanes with 1 ft. paved shoulders and 2 ft base shoulder & side ditches
- e. Pavement type: HMAC, and flexible base
- f. Final Right-of-way width: as existing

## 2. SURVEYING SERVICES