

**GENERAL MEETING OF THE BOARD OF DIRECTORS  
OF THE  
CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**

**RESOLUTION NO. 08-14A**

WHEREAS, the Central Texas Regional Mobility Authority ("CTRMA") was created pursuant to the request of Travis and Williamson Counties and in accordance with provisions of the Transportation Code and the petition and approval process established in 43 Tex. Admin. Code § 26.01, *et. seq.* (the "RMA Rules"); and

WHEREAS, the CTRMA identified the proposed 183-A turnpike as its initial project in the petition filed under the RMA Rules; and

WHEREAS, the CTRMA has approved various work authorizations for its General Engineering Consultant (the "GEC") to pursue work necessary for the development of 183-A; and

WHEREAS, in Resolution No. 03-46, dated September 24, 2003, the CTRMA Board of Directors approved Work Authorization No. 3.1 concerning additional technology services related to project development; and

WHEREAS, in various Resolutions after approval of Work Authorization 3.1, the CTRMA Board of Directors has approved from time to time Supplements numbered 1 through 9 to Work Authorization 3.1; and

WHEREAS, the GEC has requested approval of Supplement 10 to Work Authorization No. 3.1 regarding providing certain additional design and oversight services related to the intersection of Scottsdale Drive and 183-A, as well as other services addressed in a separate Resolution No. 08-14B; and

WHEREAS, the GEC has represented to the Board of Directors that the work reflected in Supplement No. 10 to Work Authorization No. 3.1, attached hereto as Attachment "A" related to the development of the intersection of Scottsdale Drive and 183-A, and the cost thereof are necessary and appropriate to the continued safe and efficient use and operation of 183-A.

NOW THEREFORE, BE IT RESOLVED, that the Board of Directors approves Supplement No. 10 to Work Authorization No. 3.1, attached hereto as Attachment "A" as it relates to the development of the intersection of Scottsdale Drive and 183-A, provided that any work commenced under Supplement No. 10 to Work Authorization No. 3.1 be subject to the Agreement for General Consulting Civil Engineering Services between the CTRMA and the GEC.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 26th day of March, 2008.

Submitted and reviewed by:



Tom Nielson  
General Counsel for the Central  
Texas Regional Mobility Authority

Approved:



Robert E. Tesch  
Chairman, Board of Directors  
Resolution Number 08-14A  
Date Passed 03/26/08

**ATTACHMENT "A"**  
**TO**  
**RESOLUTION 08-14A**  
**Development of Intersection of Scottsdale Drive and 183-A**  
**Supplement No. 10 to GEC Work Authorization 3.1**

## ATTACHMENT "A"

### WORK AUTHORIZATION NO. 3.1 – SUPPLEMENT NO. 10

This Supplement No. 9 to Work Authorization No. 3.1 is made this \_\_\_h day of March, 2008, under the terms and conditions established in the AGREEMENT FOR GENERAL CONSULTING ENGINEERING SERVICES, dated as of September 15th, 2003 (the Agreement), between the Central Texas Regional Mobility Authority (Authority) and HNTB Corporation (GEC). This Supplement Work Authorization is made for the following purpose, consistent with the Services defined in the Agreement:

#### *General Engineering and Administrative Support Services*

The following terms and conditions of Work Authorization No. 3.1 are hereby amended, as follows:

#### **Section A. - Scope of Services**

A.1. GEC shall perform the following Services:

Please reference Attachment A – Scope of Work

A.2. The following Services are not included in this Supplement No. 9 to Work Authorization No. 3.1, but shall be provided as Additional Services if authorized or confirmed in writing by the Authority.

N/A

A.3. In conjunction with the performance of the foregoing Services, GEC shall provide the following submittals/deliverables (Documents) to the Authority:

As set forth in Attachment A - Scope of Work

#### **Section B. - Schedule**

GEC shall perform the Services and deliver the related Documents (if any) according to the following schedule:

Services defined herein shall be complete by December 31, 2008.

#### **Section C. - Compensation**

C.1. In return for the performance of the foregoing obligations, the Authority shall pay to the GEC the amount not to exceed \$\_\_\_\_\_.00, based on Attachment B – Fee Estimate. This will increase the not to exceed compensation amount for Work Authorization No. 3.1 from \$7,427,100.00 to \$\_\_\_\_\_. Compensation shall be in accordance with the Agreement.

The Authority and the GEC agree that the budget amounts contained in Attachment B-Fee Estimate for the various companies and firms composing the GEC are estimates and that these individual figures may be redistributed and/or adjusted as necessary over the duration of this Work Authorization. The GEC may alter the compensation distribution between tasks or work assignments to be consistent with the Services actually rendered within the total Work Authorization amount. The GEC shall not exceed the maximum amount payable without prior written permission by Owner.

C.2. Compensation for Additional Services (if any) shall be paid by the Authority to the GEC according to the terms of future Work Authorizations.

**Section D. - Authority's Responsibilities**

The Authority shall perform and/or provide the following in a timely manner so as not to delay the Services of the GEC. Unless otherwise provided in this Work Authorization, the Authority shall bear all costs incident to compliance with the following:

N/A

**Section E. - Other Provisions**

The parties agree to the following provisions with respect to this specific Work Authorization:

N/A

Except to the extent expressly modified herein, all terms and conditions of the Agreement shall continue in full force and effect.

Authority: Central Texas Regional Mobility  
Authority

GEC: HNTB Corporation

By: \_\_\_\_\_

By: \_\_\_\_\_

Signature: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

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

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

General  
Counsel  
Approval: \_\_\_\_\_

## CENTRAL TEXAS RMA

### ATTACHMENT A – SCOPE OF WORK

#### WORK AUTHORIZATION NO. 3.1 – SUPPLEMENT NO. 10

#### SERVICES TO BE PROVIDED BY THE GENERAL ENGINEERING CONSULTANT (GEC)

This scope of work includes the continuation of those professional services and associated deliverables required by the Authority for September 2007 through December 31, 2009.

This work will include engineering studies and design services for the continuing implementation and development of the 183A Turnpike. The tasks shall include evaluation of the existing 183A toll facilities and implementation of plans to transition toll collection operations to a “cashless” operation, preparation of contract documents for modifications to the existing signing, and administration of a construction contract to effect the signing revisions. The work will also include preliminary and final designs for the construction of a Scottsdale Drive Connection to the 183A Frontage Roads, preparation of contract documents and administration and oversight of the proposed construction.

#### **10) SCOTTSDALE DRIVE CONNECTION PROJECT**

This scope of services includes professional services and deliverables in support of CTRMA’s development of the Scottsdale Drive Connection on the 183A Turnpike. Included in this scope are efforts associated with:

- Design Services – Preliminary Design and PS&E design
- Construction Phase Services - Project advertisement and bidding, construction inspection and administration

##### **10.1 Design Services**

The GEC will develop plans, specifications, and estimates for the Scottsdale Drive Connection. TxDOT Standard Sheets will be used to minimize plan development work. Develop (or include) the following plan sheets:

- Title Sheet (to include Index of Sheets)
- General Notes and Basis of Estimate
- Estimate and Quantity Sheet
- Summary Sheets
- Project Layout
- Horizontal Alignment Data Sheet
- Typical Sections & Miscellaneous Roadway Details

- Sequence of Construction
- Traffic Control Plan Details
- Roadway Plan & Profiles (1' = 100')
- Drainage Area Map, Hydrologic & Hydraulic Data
- Culvert Layouts & Details
- Signing and Pavement Marking
- Landscaping
- Storm Water Pollution Prevention Plan
- Latest TxDOT Standards

**10.1.1 Roadway Design:** Design horizontal and vertical alignment for Scottsdale Drive connection to 183A southbound. Develop typical sections and plan & profile sheets for northbound left turn lane, southbound acceleration lane, and the Scottsdale Drive Connection.

**10.1.2 Drainage Design:** Prepare onsite drainage area map and provide drainage design for swales and one drainage structure to accommodate the surface drainage along the project limits. All designs will be prepared in conformance with TxDOT standards.

**10.1.3 Storm Water Pollution Prevention Plan (SW3P):** Prepare an SW3P for the project location in accordance with current NEPA requirements and local criteria. Prepare SW3P plans and details as required.

**10.1.4 Signing and Pavement Markings:** Prepare a signing and pavement marking layout. Prepare a small sign summary sheet and miscellaneous sign details as required.

**10.1.5 Traffic Control Plan:** Determine the project construction sequence and design a traffic control plan based upon the Texas MUTCD (TxMUTCD) and the latest Austin District traffic control design requirements.

**10.1.6 Contract Documents:** Provide specifications, special specifications, special provisions, and general notes (as needed) to specify the work required by the contractor. Use TxDOT specifications, when available. Provide bid tab and estimate of construction cost.

**10.1.7 Utility Coordination:** Review proposed design data for potential conflicts with existing utilities. Coordinate with the appropriate utilities to address solutions to utility conflicts. No utility conflicts are anticipated at this time.

**10.1.8 Landscaping Plan:** Coordinate with the designer of Block House Creek on the proposed landscape / entry improvements.

**10.1.9 Provide Quality Control/Quality Assurance** for design activities and plan sheets.

## **Deliverables**

Deliverables will consist of the following:

- One copy of the PS&E at 90% completion for CTRMA review.
- One signed and sealed original and one copy of the PS&E at 100% completion for CTRMA review and approval.

### **10.2 Construction Phase Services**

The GEC will provide construction phase services required to complete construction of the Scottsdale Drive Connection, including project advertisement and bidding, construction inspection, construction administration, and project closeout.

**10.2.1 Advertise:** Prepare and publish advertisement. Prepare and run up to 6 ads in local newspapers to advertise the project.

**10.2.2 Distribute Plans and Addenda:** Track and distribute plans to contractors, including addenda, if necessary. Once advertised, serve as the point of contact for all bid inquiries. Respond to inquiries from potential bidders. Respond to all bid inquiries during the bidding phase. Furnish the plans and project manual and maintain the bidder's list. Contact a maximum of 5 contractors that often bid on jobs in this area to notify them of the project, in an effort to generate interest in the project. This will make for a more competitive bid. If applicable, prepare and distribute any/all addenda to the plan holders list.

**10.2.3 Pre-bid Meeting:** Prepare for and host the pre-bid meeting at the GEC offices for potential bidders to ask questions and for any concerns from the potential bidders to be addressed. Meeting minutes from the pre-bid meeting will be issued to all meeting attendees and plan holders.

**10.2.4 Bid Opening and Review:** Receive all bids from the contractors and conduct a public bid opening for all contractors. Once bids are opened, review the bids for accuracy and completeness. Review the bids with CTRMA and make a recommendation for award. Once the contractor is selected, the contractor's references will be contacted and insurance and bond requirements will be validated. Prepare Notice of Award to contractor.

**10.2.5 Contract Execution:** Coordinate the execution of the contract, which includes all of the insurance, bonds, signatures, and other additional documentation with CTRMA and the contractor in order to begin construction.

**10.2.6 Field Inspection Services** to include:

- general contract administration
- quantity verification for payment purposes
- ensure conformance to plans and specifications



- maintain a construction activity log and photo library
- attend and conduct progress review meetings with CTRMA and contractor
- make recommendations for approval of payment to contractor
- review schedule
- review testing and materials reports for conformance to specifications
- document control
- monitor accuracy of as-built drawings
- verification of horizontal and vertical grades
- record weekly progress reports

**10.2.7 Walk-Thru and Punch List:** Perform a final walk-thru with CTRMA and the contractor to make sure all aspects of the project meet CTRMA's satisfaction and conform to the final plans and specifications. Review the contractor's punch list submittal with CTRMA and contractor and add to the Punch List other items to be addressed. Verify the contractor response to all items on the Punch List. Issue the certificate of completion once satisfactory completion is achieved.

**10.2.8 Project Closeout:** Review and submit the final record drawings from the contractor. Submit all electronic files from the project upon completion. Work with the contractor to finalize all closeout documentation. This will include the contractor's affidavit that all bills are paid, clear of any liens, contract bond, and any final payments required by the contractor.

## **Deliverables**

Deliverables will consist of the following:

- Notice of Intent Permit (NOI) for construction
- Copies of construction documents and plans for all potential bidders
- 5 copies of construction documents and plans to the awarded contractor
- Materials and Testing results
- Construction activity log & photo library
- Material tickets and quantity calculations for payment verification
- Final closeout paperwork
- Project records and correspondence

## **11) TRANSITION TO CASHLESS TOLL SYSTEM ON 183A**

### **11.1 Evaluation of Impacts to Operations**

**11.1.1 Tolling Locations:** Review the existing tolling locations to identify anticipated changes to the current toll location and numbers of toll lanes based on the requirements of cashless tolling. A summary of the proposed/required changes will be prepared for review and approval.

**11.1.2 Staffing: [ No services required ]**

**11.1.3 Infrastructure / Roadway / Toll Equipment: [ No services required ]**

**11.1.4 Security:** Changes to security systems, operations and procedures based on remote control and monitoring of operations; and the physical security requirements for protection for unused existing plaza equipment will be required. Provide technical assistance to effect the required changes, as requested by the CTRMA.

**11.2 Evaluate Operational and Maintenance Cost Impacts**

**11.2.1 [ No services required ]**

**11.2.2 [ No services required ]**

**11.2.3 [ No services required ]**

**11.3 Evaluation of Toll Plaza Options**

**11.3.1 [ No services required ]**

**11.4 Design Services**

The GEC will develop plans, specifications, and estimates for the roadway signing, pavement markings, and traffic control devices to accompany the conversion to cashless tolling. Develop an appropriate system of signage modification -both transitional and permanent – to effectively inform the traveling public of the cashless toll collection. TxDOT Standard Sheets will be used to minimize plan development work. Develop (or include) the following plan sheets:

- Title Sheet (to include Index of Sheets)
- General Notes and Basis of Estimate
- Estimate and Quantity Sheet
- Summary Sheets
- Project Layout
- Toll Gantry and Overhead Sign Bridge Details (if needed)
- Demolition/Removal Plan
- Typical Sections & Miscellaneous Roadway Details (if needed)
- Traffic Control Plan Standards and Details
- Electrical, Communication, & ETC Details
- Signing and Pavement Marking Details
- Latest TxDOT Standards

**11.4.1 Toll System Design: [ No services required ]**

**11.4.2 Demolition/Removal Plan:** Prepare a layout indicating all signs, pavement markings and traffic control devices to be removed or demolished for the conversion to cashless tolling, including stockpile and storage locations for re-usable materials.

**11.4.3 Signing and Pavement Markings:** Prepare a signing and pavement marking layout. Prepare small and large sign summary sheets and miscellaneous sign details as required. Prepare layouts and elevations for overhead sign bridges as needed.

**11.4.4 Traffic Control Plan:** Determine the project construction sequence and design a traffic control plan based upon the Texas MUTCD (TxMUTCD) and the latest Austin District traffic control design requirements.

**11.4.5 Reuse of Facilities: [ No services required ]**

**11.4.6 Contract Documents:** Provide plans, specifications, special specifications, special provisions, and general notes (as needed) to specify the work required by the contractor for the proposed signing, pavement markings and traffic control devices. Use TxDOT specifications, when available. Provide bid tab, construction time estimate, and estimate of construction cost.

**11.4.7 Provide Quality Control/Quality Assurance** for design activities and plan sheets.

## **Deliverables**

Deliverables will consist of the following:

- One copy of the PS&E at 90% completion for CTRMA review.
- One signed and sealed original and one copy of the PS&E at 100% completion for CTRMA review and approval.

## **11.5 Construction Phase Services**

The GEC will provide construction phase services required to complete construction of the signing, pavement markings and traffic control devices, including project advertisement and bidding, construction inspection, construction administration, and project closeout.

**11.5.1 Advertise:** Prepare and publish advertisement. Prepare and run up to 6 ads in local newspapers to advertise the project.

**11.5.2 Distribute Plans and Addenda:** Track and distribute plans to contractors, including addenda, if necessary. Once advertised, serve as the point of contract for all bid inquiries. Respond to inquiries from potential bidders. Respond to all bid inquiries during the bidding phase. Furnish the plans and project manual and maintain the bidder's list. Contact a maximum of 5 contractors that often bid on jobs in this area to notify them of the project, in an effort to generate interest in the project. This will make for a more

competitive bid. If applicable, prepare and distribute any/all addenda to the plan holders list.

**11.5.3 Pre-bid Meeting (If Required):** Prepare for and host the pre-bid meeting at the GEC offices for potential bidders to ask questions and for any concerns from the potential bidders to be addressed. Meeting minutes from the pre-bid meeting will be issued to all meeting attendees and plan holders.

**11.5.4 Bid Opening and Review:** Receive all bids from the contractors and conduct a public bid opening for all contractors. Once bids are opened, review the bids for accuracy and completeness. Review the bids with CTRMA and make a recommendation for award. Once the contractor is selected, the contractor's references will be contacted and insurance and bond requirements will be validated. Prepare Notice of Award to contractor.

**11.5.5 Contract Execution:** Coordinate the execution of the contract, which includes all of the insurance, bonds, signatures, and other additional documentation with CTRMA and the contractor in order to begin construction.

**11.5.6 Field Inspection Services** to include:

- general contract administration
- quantity verification for payment purposes
- ensure conformance to plans and specifications
- maintain a construction activity log and photo library
- attend and conduct progress review meetings with CTRMA and contractor
- make recommendations for approval of payment to contractor
- review schedule
- review testing and materials reports for conformance to specifications
- document control
- prepare as-built drawings
- verification of horizontal and vertical grades for sign clearances
- record weekly progress reports

**11.5.7 Walk-Thru and Punch List:** Perform a final walk-thru with CTRMA and the contractor to make sure all aspects of the project meet CTRMA's satisfaction and conform to the final plans and specifications. Review the contractor's punch list submittal with CTRMA and contractor and add to the Punch List other items to be addressed. Verify the contractor response to all items on the Punch List. Issue the certificate of completion once satisfactory completion is achieved.

**11.5.8 Project Closeout:** Review and submit the final record drawings from the contractor. Submit all electronic files from the project upon completion. Work with the contractor to finalize all closeout documentation. This will include the contractor's affidavit that all

bills are paid, clear of any liens, contract bond, and any final payments required by the contractor.

## **Deliverables**

Deliverables will consist of the following:

- Copies of construction documents and plans for all potential bidders
- 5 copies of construction documents and plans to the awarded contractor
- Materials and Testing results
- Construction activity log & photo library
- Final closeout paperwork
- Project records and correspondence

### **11.6 Toll Systems Development & Oversight**

**11.6.1 Work Plan & Schedule: [ No services required ]**

**11.6.2 Marketing / Communications Plan: [ No services required ]**

**11.6.3 Toll Collection System Monitoring & Refinement: [ No services required ]**

**11.6.4 Interagency Coordination:** Provide assistance to the CTRMA to facilitate interagency coordination meetings, prepare any required documentation, review issues and draft responses, and provide technical assistance, as requested. It is assumed that no more the forty (40) hours will be required for this task.

**11.6.5 [ No services required ]**

### **11.7 Facilitate Sale of Excess Manual/ACM toll equipment**

**[ No services required ]**

[ END OF SECTION ]

**GENERAL MEETING OF THE BOARD OF DIRECTORS  
OF THE  
CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**

**RESOLUTION NO. 08-14B**

WHEREAS, the Central Texas Regional Mobility Authority ("CTRMA") was created pursuant to the request of Travis and Williamson Counties and in accordance with provisions of the Transportation Code and the petition and approval process established in 43 Tex. Admin. Code § 26.01, *et. seq.* (the "RMA Rules"); and

WHEREAS, the CTRMA identified the proposed 183-A turnpike as its initial project in the petition filed under the RMA Rules; and

WHEREAS, the CTRMA has approved various work authorizations for its General Engineering Consultant (the "GEC") to pursue work necessary for the development of 183-A; and

WHEREAS, in Resolution No. 03-46, dated September 24, 2003, the CTRMA Board of Directors approved Work Authorization No. 3.1 concerning additional technology services related to project development; and

WHEREAS, in various Resolutions after approval of Work Authorization 3.1, the CTRMA Board of Directors has approved from time to time Supplements numbered 1 through 9 to Work Authorization 3.1; and


WHEREAS, the GEC has requested approval of Supplement 10 to Work Authorization No. 3.1 regarding providing certain oversight services related to the potential implementation of a cashless toll system for 183-A, as well as other services addressed in a separate Resolution No. 08-14A; and

WHEREAS, the GEC has represented to the Board of Directors that the work reflected in Supplement No. 10 to Work Authorization No. 3.1, attached hereto as Attachment "A" related to the potential implementation of a cashless toll system for 183-A, and the cost thereof are necessary and appropriate to the continued safe and efficient use and operation of 183-A.


NOW THEREFORE, BE IT RESOLVED, that the Board of Directors approves Supplement No. 10 to Work Authorization No. 3.1, attached hereto as Attachment "A" as it relates to the potential implementation of a cashless toll system for 183-A, provided that any work commenced under Supplement No. 10 to Work Authorization No. 3.1 be subject to the Agreement for General Consulting Civil Engineering Services between the CTRMA and the GEC.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 26th day of March, 2008.

Submitted and reviewed by:

  
\_\_\_\_\_  
Tom Nielson  
General Counsel for the Central  
Texas Regional Mobility Authority

Approved:

  
\_\_\_\_\_  
Robert E. Tesch  
Chairman, Board of Directors  
Resolution Number 08-14B  
Date Passed 03/26/08

**ATTACHMENT "A"**  
**TO**  
**RESOLUTION 08-14B**  
**Potential Implementation of a Cashless Toll System for 183-A**

**Supplement No. 10 to GEC Work Authorization 3.1**



Copy provided  
to Wes  
11:55 AM  
03/25/08

## SCOPE OF WORK OUTLINE

### SERVICES TO BE PROVIDED BY THE GEC

This scope of services includes the provision of professional tasks related to the study of tolling projects.

#### 10) SCOTTSDALE DRIVE CONNECTION PROJECT

\$53,521

##### 10.1 Design Services

- 10.1.1 Roadway Design
- 10.1.2 Drainage Design
- 10.1.3 Storm Water Pollution Prevention Plan (SW3P)
- 10.1.4 Signing and Pavement Markings
- 10.1.5 Traffic Control Plan
- 10.1.6 Contract Documents
- 10.1.7 Utility Coordination
- 10.1.8 Landscaping Plan Coordination
- 10.1.9 Provide Quality Control/Quality Assurance

##### 10.2 Construction Phase Services

- 10.2.1 Advertise
- 10.2.2 Distribute Plans and Addenda
- 10.2.3 Pre-bid Meeting
- 10.2.4 Bid Opening and Review
- 10.2.5 Contract Execution
- 10.2.6 Field Inspection Services
- 10.2.7 Walk-Thru and Punch List
- 10.2.8 Project Closeout

#### 11) TRANSITION TO CASHLESS TOLL SYSTEM ON 183A

\$89,604

##### 11.1 Evaluation of Impacts to Operations

- 11.2 Evaluate Operational and Maintenance Cost Impacts [No Services Req'd at this time]
- 11.3 Evaluation of Toll Plaza Options [No Services Req'd at this time]

##### 11.4 Design Services

##### 11.5 Construction Phase Services

##### 11.6 Toll System Development & Oversight

##### 11.7 Facilitate Sale of Excess Manual/ACM toll equipment [No Services Req'd at this time]

**EXHIBIT B**

**WORK AUTHORIZATION NO. 3.1 – SUPPLEMENT NO. 10**

This Supplement No. 9 to Work Authorization No. 3.1 is made this \_\_\_h day of March, 2008, under the terms and conditions established in the AGREEMENT FOR GENERAL CONSULTING ENGINEERING SERVICES, dated as of September 15th, 2003 (the Agreement), between the Central Texas Regional Mobility Authority (Authority) and HNTB Corporation (GEC). This Supplement Work Authorization is made for the following purpose, consistent with the Services defined in the Agreement:

*General Engineering and Administrative Support Services*

The following terms and conditions of Work Authorization No. 3.1 are hereby amended, as follows:

**Section A. - Scope of Services**

A.1. GEC shall perform the following Services:

Please reference Attachment A – Scope of Work

A.2. The following Services are not included in this Supplement No. 9 to Work Authorization No. 3.1, but shall be provided as Additional Services if authorized or confirmed in writing by the Authority.

N/A

A.3. In conjunction with the performance of the foregoing Services, GEC shall provide the following submittals/deliverables (Documents) to the Authority:

As set forth in Attachment A - Scope of Work

**Section B. - Schedule**

GEC shall perform the Services and deliver the related Documents (if any) according to the following schedule:

Services defined herein shall be complete by December 31, 2008.

**Section C. - Compensation**

C.1. In return for the performance of the foregoing obligations, the Authority shall pay to the GEC the amount not to exceed **\$143,125.00**, based on Attachment B – Fee Estimate. This will increase the not to exceed compensation amount for Work Authorization No. 3.1 from \$7,427,100.00 to **\$7,570,225.00**. Compensation shall be in accordance with the Agreement.

The Authority and the GEC agree that the budget amounts contained in Attachment B-Fee Estimate for the various companies and firms composing the GEC are estimates and that these individual figures may be redistributed and/or adjusted as necessary over the duration of this Work Authorization. The GEC may alter the compensation distribution between tasks or work assignments to be consistent with the Services actually rendered within the total Work Authorization amount. The GEC shall not exceed the maximum amount payable without prior written permission by Owner.

C.2. Compensation for Additional Services (if any) shall be paid by the Authority to the GEC according to the terms of future Work Authorizations.

**Section D. - Authority's Responsibilities**

The Authority shall perform and/or provide the following in a timely manner so as not to delay the Services of the GEC. Unless otherwise provided in this Work Authorization, the Authority shall bear all costs incident to compliance with the following:

N/A

**Section E. - Other Provisions**

The parties agree to the following provisions with respect to this specific Work Authorization:

N/A

Except to the extent expressly modified herein, all terms and conditions of the Agreement shall continue in full force and effect.

Authority: Central Texas Regional Mobility  
Authority

GEC: HNTB Corporation

By: \_\_\_\_\_

By: \_\_\_\_\_

Signature: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_  
General  
Counsel  
Approval: \_\_\_\_\_

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

## CENTRAL TEXAS RMA

### ATTACHMENT A – SCOPE OF WORK

#### WORK AUTHORIZATION NO. 3.1 – SUPPLEMENT NO. 10

#### SERVICES TO BE PROVIDED BY THE GENERAL ENGINEERING CONSULTANT (GEC)

This scope of work includes the continuation of those professional services and associated deliverables required by the Authority for September 2007 through December 31, 2009.

This work will include engineering studies and design services for the continuing implementation and development of the 183A Turnpike. The tasks shall include evaluation of the existing 183A toll facilities and implementation of plans to transition toll collection operations to a “cashless” operation, preparation of contract documents for modifications to the existing signing, and administration of a construction contract to effect the signing revisions. The work will also include preliminary and final designs for the construction of a Scottsdale Drive Connection to the 183A Frontage Roads, preparation of contract documents and administration and oversight of the proposed construction.

#### 10) SCOTTSDALE DRIVE CONNECTION PROJECT

This scope of services includes professional services and deliverables in support of CTRMA’s development of the Scottsdale Drive Connection on the 183A Turnpike. Included in this scope are efforts associated with:

- Design Services – Preliminary Design and PS&E design
- Construction Phase Services - Project advertisement and bidding, construction inspection and administration

##### 10.1 Design Services

The GEC will develop plans, specifications, and estimates for the Scottsdale Drive Connection. TxDOT Standard Sheets will be used to minimize plan development work. Develop (or include) the following plan sheets:

- Title Sheet (to include Index of Sheets)
- General Notes and Basis of Estimate
- Estimate and Quantity Sheet
- Summary Sheets
- Project Layout
- Horizontal Alignment Data Sheet
- Typical Sections & Miscellaneous Roadway Details

- Sequence of Construction
- Traffic Control Plan Details
- Roadway Plan & Profiles (1' = 100')
- Drainage Area Map, Hydrologic & Hydraulic Data
- Culvert Layouts & Details
- Signing and Pavement Marking
- Landscaping
- Storm Water Pollution Prevention Plan
- Latest TxDOT Standards

**10.1.1 Roadway Design:** Design horizontal and vertical alignment for Scottsdale Drive connection to 183A southbound. Develop typical sections and plan & profile sheets for northbound left turn lane, southbound acceleration lane, and the Scottsdale Drive Connection.

**10.1.2 Drainage Design:** Prepare onsite drainage area map and provide drainage design for swales and one drainage structure to accommodate the surface drainage along the project limits. All designs will be prepared in conformance with TxDOT standards.

**10.1.3 Storm Water Pollution Prevention Plan (SW3P):** Prepare an SW3P for the project location in accordance with current NEPA requirements and local criteria. Prepare SW3P plans and details as required.

**10.1.4 Signing and Pavement Markings:** Prepare a signing and pavement marking layout. Prepare a small sign summary sheet and miscellaneous sign details as required.

**10.1.5 Traffic Control Plan:** Determine the project construction sequence and design a traffic control plan based upon the Texas MUCTD (TxMUTCD) and the latest Austin District traffic control design requirements.

**10.1.6 Contract Documents:** Provide specifications, special specifications, special provisions, and general notes (as needed) to specify the work required by the contractor. Use TxDOT specifications, when available. Provide bid tab and estimate of construction cost.

**10.1.7 Utility Coordination:** Review proposed design data for potential conflicts with existing utilities. Coordinate with the appropriate utilities to address solutions to utility conflicts. No utility conflicts are anticipated at this time.

**10.1.8 Landscaping Plan:** Coordinate with the designer of Block House Creek on the proposed landscape / entry improvements.

**10.1.9 Provide Quality Control/Quality Assurance** for design activities and plan sheets.

## **Deliverables**

Deliverables will consist of the following:

- One copy of the PS&E at 90% completion for CTRMA review.
- One signed and sealed original and one copy of the PS&E at 100% completion for CTRMA review and approval.

### **10.2 Construction Phase Services**

The GEC will provide construction phase services required to complete construction of the Scottsdale Drive Connection, including project advertisement and bidding, construction inspection, construction administration, and project closeout.

**10.2.1 Advertise:** Prepare and publish advertisement. Prepare and run up to 6 ads in local newspapers to advertise the project.

**10.2.2 Distribute Plans and Addenda:** Track and distribute plans to contractors, including addenda, if necessary. Once advertised, serve as the point of contact for all bid inquiries. Respond to inquiries from potential bidders. Respond to all bid inquiries during the bidding phase. Furnish the plans and project manual and maintain the bidder's list. Contact a maximum of 5 contractors that often bid on jobs in this area to notify them of the project, in an effort to generate interest in the project. This will make for a more competitive bid. If applicable, prepare and distribute any/all addenda to the plan holders list.

**10.2.3 Pre-bid Meeting:** Prepare for and host the pre-bid meeting at the GEC offices for potential bidders to ask questions and for any concerns from the potential bidders to be addressed. Meeting minutes from the pre-bid meeting will be issued to all meeting attendees and plan holders.

**10.2.4 Bid Opening and Review:** Receive all bids from the contractors and conduct a public bid opening for all contractors. Once bids are opened, review the bids for accuracy and completeness. Review the bids with CTRMA and make a recommendation for award. Once the contractor is selected, the contractor's references will be contacted and insurance and bond requirements will be validated. Prepare Notice of Award to contractor.

**10.2.5 Contract Execution:** Coordinate the execution of the contract, which includes all of the insurance, bonds, signatures, and other additional documentation with CTRMA and the contractor in order to begin construction.

**10.2.6 Field Inspection Services** to include:

- general contract administration
- quantity verification for payment purposes
- ensure conformance to plans and specifications

- maintain a construction activity log and photo library
- attend and conduct progress review meetings with CTRMA and contractor
- make recommendations for approval of payment to contractor
- review schedule
- review testing and materials reports for conformance to specifications
- document control
- monitor accuracy of as-built drawings
- verification of horizontal and vertical grades
- record weekly progress reports

**10.2.7 Walk-Thru and Punch List:** Perform a final walk-thru with CTRMA and the contractor to make sure all aspects of the project meet CTRMA's satisfaction and conform to the final plans and specifications. Review the contractor's punch list submittal with CTRMA and contractor and add to the Punch List other items to be addressed. Verify the contractor response to all items on the Punch List. Issue the certificate of completion once satisfactory completion is achieved.

**10.2.8 Project Closeout:** Review and submit the final record drawings from the contractor. Submit all electronic files from the project upon completion. Work with the contractor to finalize all closeout documentation. This will include the contractor's affidavit that all bills are paid, clear of any liens, contract bond, and any final payments required by the contractor.

## **Deliverables**

Deliverables will consist of the following:

- Notice of Intent Permit (NOI) for construction
- Copies of construction documents and plans for all potential bidders
- 5 copies of construction documents and plans to the awarded contractor
- Materials and Testing results
- Construction activity log & photo library
- Material tickets and quantity calculations for payment verification
- Final closeout paperwork
- Project records and correspondence

## **11) TRANSITION TO CASHLESS TOLL SYSTEM ON 183A**

### **11.1 Evaluation of Impacts to Operations**

**11.1.1 Tolling Locations:** Review the existing tolling locations to identify anticipated changes to the current toll location and numbers of toll lanes based on the requirements of cashless tolling. A summary of the proposed/required changes will be prepared for review and approval.

**11.1.2 Staffing: [ No services required ]**

**11.1.3 Infrastructure / Roadway / Toll Equipment: [ No services required ]**

**11.1.4 Security:** Changes to security systems, operations and procedures based on remote control and monitoring of operations; and the physical security requirements for protection for unused existing plaza equipment will be required. Provide technical assistance to effect the required changes, as requested by the CTRMA.

**11.2 Evaluate Operational and Maintenance Cost Impacts**

**11.2.1 [ No services required ]**

**11.2.2 [ No services required ]**

**11.2.3 [ No services required ]**

**11.3 Evaluation of Toll Plaza Options**

**11.3.1 [ No services required ]**

**11.4 Design Services**

The GEC will develop plans, specifications, and estimates for the roadway signing, pavement markings, and traffic control devices to accompany the conversion to cashless tolling. Develop an appropriate system of signage modification -both transitional and permanent – to effectively inform the traveling public of the cashless toll collection. TxDOT Standard Sheets will be used to minimize plan development work. Develop (or include) the following plan sheets:

- Title Sheet (to include Index of Sheets)
- General Notes and Basis of Estimate
- Estimate and Quantity Sheet
- Summary Sheets
- Project Layout
- Toll Gantry and Overhead Sign Bridge Details (if needed)
- Demolition/Removal Plan
- Typical Sections & Miscellaneous Roadway Details (if needed)
- Traffic Control Plan Standards and Details
- Electrical, Communication, & ETC Details
- Signing and Pavement Marking Details
- Latest TxDOT Standards

**11.4.1 Toll System Design: [ No services required ]**



**11.4.2 Demolition/Removal Plan:** Prepare a layout indicating all signs, pavement markings and traffic control devices to be removed or demolished for the conversion to cashless tolling, including stockpile and storage locations for re-usable materials.

**11.4.3 Signing and Pavement Markings:** Prepare a signing and pavement marking layout. Prepare small and large sign summary sheets and miscellaneous sign details as required. Prepare layouts and elevations for overhead sign bridges as needed.

**11.4.4 Traffic Control Plan:** Determine the project construction sequence and design a traffic control plan based upon the Texas MUTCD (TxMUTCD) and the latest Austin District traffic control design requirements.

**11.4.5 Reuse of Facilities: [ No services required ]**

**11.4.6 Contract Documents:** Provide plans, specifications, special specifications, special provisions, and general notes (as needed) to specify the work required by the contractor for the proposed signing, pavement markings and traffic control devices. Use TxDOT specifications, when available. Provide bid tab, construction time estimate, and estimate of construction cost.

**11.4.7 Provide Quality Control/Quality Assurance** for design activities and plan sheets.

## **Deliverables**

Deliverables will consist of the following:

- One copy of the PS&E at 90% completion for CTRMA review.
- One signed and sealed original and one copy of the PS&E at 100% completion for CTRMA review and approval.

## **11.5 Construction Phase Services**

The GEC will provide construction phase services required to complete construction of the signing, pavement markings and traffic control devices, including project advertisement and bidding, construction inspection, construction administration, and project closeout.

**11.5.1 Advertise:** Prepare and publish advertisement. Prepare and run up to 6 ads in local newspapers to advertise the project.

**11.5.2 Distribute Plans and Addenda:** Track and distribute plans to contractors, including addenda, if necessary. Once advertised, serve as the point of contract for all bid inquiries. Respond to inquiries from potential bidders. Respond to all bid inquiries during the bidding phase. Furnish the plans and project manual and maintain the bidder's list. Contact a maximum of 5 contractors that often bid on jobs in this area to notify them of the project, in an effort to generate interest in the project. This will make for a more

competitive bid. If applicable, prepare and distribute any/all addenda to the plan holders list.

**11.5.3 Pre-bid Meeting (If Required):** Prepare for and host the pre-bid meeting at the GEC offices for potential bidders to ask questions and for any concerns from the potential bidders to be addressed. Meeting minutes from the pre-bid meeting will be issued to all meeting attendees and plan holders.

**11.5.4 Bid Opening and Review:** Receive all bids from the contractors and conduct a public bid opening for all contractors. Once bids are opened, review the bids for accuracy and completeness. Review the bids with CTRMA and make a recommendation for award. Once the contractor is selected, the contractor's references will be contacted and insurance and bond requirements will be validated. Prepare Notice of Award to contractor.

**11.5.5 Contract Execution:** Coordinate the execution of the contract, which includes all of the insurance, bonds, signatures, and other additional documentation with CTRMA and the contractor in order to begin construction.

**11.5.6 Field Inspection Services** to include:

- general contract administration
- quantity verification for payment purposes
- ensure conformance to plans and specifications
- maintain a construction activity log and photo library
- attend and conduct progress review meetings with CTRMA and contractor
- make recommendations for approval of payment to contractor
- review schedule
- review testing and materials reports for conformance to specifications
- document control
- prepare as-built drawings
- verification of horizontal and vertical grades for sign clearances
- record weekly progress reports

**11.5.7 Walk-Thru and Punch List:** Perform a final walk-thru with CTRMA and the contractor to make sure all aspects of the project meet CTRMA's satisfaction and conform to the final plans and specifications. Review the contractor's punch list submittal with CTRMA and contractor and add to the Punch List other items to be addressed. Verify the contractor response to all items on the Punch List. Issue the certificate of completion once satisfactory completion is achieved.

**11.5.8 Project Closeout:** Review and submit the final record drawings from the contractor. Submit all electronic files from the project upon completion. Work with the contractor to finalize all closeout documentation. This will include the contractor's affidavit that all

bills are paid, clear of any liens, contract bond, and any final payments required by the contractor.

## **Deliverables**

Deliverables will consist of the following:

- Copies of construction documents and plans for all potential bidders
- 5 copies of construction documents and plans to the awarded contractor
- Materials and Testing results
- Construction activity log & photo library
- Final closeout paperwork
- Project records and correspondence

### **11.6 Toll Systems Development & Oversight**

**11.6.1 Work Plan & Schedule: [ No services required ]**

**11.6.2 Marketing / Communications Plan: [ No services required ]**

**11.6.3 Toll Collection System Monitoring & Refinement: [ No services required ]**

**11.6.4 Interagency Coordination:** Provide assistance to the CTRMA to facilitate interagency coordination meetings, prepare any required documentation, review issues and draft responses, and provide technical assistance, as requested. It is assumed that no more the forty (40) hours will be required for this task.

**11.6.5 [ No services required ]**

### **11.7 Facilitate Sale of Excess Manual/ACM toll equipment**

**[ No services required ]**

[ END OF SECTION ]

CTRMA GEN  
 HNTB Corporation - MANHOUR BREAKDOWN  
 March 4, 2008

CTRMA  
 WORK AUTHORIZATION SCOTTSDALE

SUMMARY

Manhours	Manhours							
	A	B1	B	C	D	E	F1	F
	Principal	Exhibiting Estimator	Proj. Mgr	Senior Project Engineer	Project Engineer	Technician	Project Administrator	Clarial Administrative Support
\$	\$2,200	\$2,000	\$5,000	\$7,000	\$4,000	\$3,000	\$3,000	\$3,000
4	0	12	35	128	212	0	47	
0	4	74	112	176	246	0	66	
4	4	86	147	304	458	0	113	
\$	328	\$ 328	\$ 5,848	\$ 8,379	\$ 13,376	\$ 15,114	\$ -	\$ 2,599
\$	510	\$ 510	\$ 9,099	\$ 13,037	\$ 20,812	\$ 23,516	\$ -	\$ 4,044
\$	126	\$ 126	\$ 2,242	\$ 3,212	\$ 5,128	\$ 5,794	\$ -	\$ 996
\$	964	\$ 964	\$ 17,189	\$ 24,628	\$ 39,316	\$ 44,424	\$ -	\$ 7,639

Task	Fee
Scottsdale Drive Connection	\$53,521
183A Cashless Toll Collection System	\$89,604
<b>TOTAL</b>	<b>\$143,125</b>

Labour Costs	\$ 4,000
Overhead Costs	\$ 4,000
Profit	\$ 8,000
<b>Total Limited Labor Cost</b>	<b>\$ 16,000</b>

Direct Expenses	\$ 135,125
Scottsdale Drive Connection	\$ 53,521
183A Cashless Toll Collection System	\$ 89,604
<b>Total Direct Expenses</b>	<b>\$ 143,125</b>

# Attachment B - Fee Estimate

CH2M HILL  
BNTB Corporation - MANHÖTER BREAKDOWN  
March 4, 2008

CH2M HILL  
WORK AUTHORIZATION SCOTTSDALE

## Scottsdale Drive Connection

Task	(Labor Rates)											TOTAL HRS
	A	B	C	D	E	F	G	H	I	J	K	
1.0 Scottsdale Drive Connections												
1.1 Design Services												
1.1.1 Roadway Design												40
1.1.2 Drainage Design												16
1.1.3 Storm Water Pollution Prevention Plan												16
1.1.4 Signing & Pavement Markings												20
1.1.5 Traffic Control Plan												24
1.1.6 Contract Documents												36
1.1.7 Utility Coordination												16
1.1.8 Landscaping Coordination												24
1.1.9 QA/QC												20
1.2 Construction Phase Services												
1.2.1 Mobilize												9
1.2.2 Distribute Plans & Addenda												15
1.2.3 Pre-bid Meeting												6
1.2.4 Bid Opening & Review												10
1.2.5 Contract Execution												14
1.2.6 Final Inspection Services												104
1.2.7 Walk Thru & Punch List												36
1.2.8 Project Closeout												32

Assume 2 month construction schedule

TOTAL GEC TEAM DIRECT LABOR		4	0	0	0	12	15	18	21	27	47			
5% Profit by Chargeback		0.00%	0.00%	2.74%	7.99%	20.27%	40.40%	0.00%	0.00%	0.00%	40.20%			
Labour Costs	\$	324	\$	0	\$	816	\$	1,095	\$	5,022	\$	6,906	\$	16,348
Overhead Costs	\$	510	\$	0	\$	1,270	\$	3,104	\$	8,761	\$	16,885	\$	26,214
Profit	\$	120	\$	0	\$	313	\$	765	\$	2,150	\$	2,082	\$	414
<b>Total Loaded Labor</b>	<b>\$</b>	<b>954</b>	<b>\$</b>	<b>0</b>	<b>\$</b>	<b>2,398</b>	<b>\$</b>	<b>5,864</b>	<b>\$</b>	<b>16,554</b>	<b>\$</b>	<b>20,363</b>	<b>\$</b>	<b>49,521</b>
<b>Direct Expenses</b>	<b>Cost</b>													
Printing	\$	500												
Newspaper Ads	\$	1,500												
Misc expenses	\$	500												
Meals	\$	1,500												
<b>Total Direct Expenses</b>	<b>\$</b>	<b>4,000</b>												
<b>Total Loaded Labor</b>	<b>\$</b>	<b>49,521</b>												
<b>Total Direct Expenses</b>	<b>\$</b>	<b>4,000</b>												
<b>Total</b>	<b>\$</b>	<b>53,521</b>												

## Attachment B - Fee Estimate

CTRMA GEC  
 HNTB Corporation - MANHOOR BREAKDOWN  
 March 18, 2008

CTRMA  
 WORK AUTHORIZATION - CASHLESS TOLL COLLECTION

### 11.0 183A Cashless Toll Collection System

Task	Work Description	MANHOORS								TOTAL HRS
		A	B1	B	C	D	E	F1	F	
	(Labor Rates)	\$ 82.00	\$ 82.00	\$ 68.00	\$ 37.00	\$ 44.00	\$ 33.00	\$ 33.00	\$ 23.00	
<b>11.0 183A Cashless Toll Collection System</b>										
<b>11.1 Evaluation of Impacts to Alternatives</b>										
11.1.1	Tolling Locations			5		24	10			48
11.1.2	Staffing									0
11.1.3	Infrastructure/Roadway/Toll Equipment									0
11.1.4	Security				16	8				24
<b>11.2 Evaluate Operational and Maint Cost Impacts</b>										
11.2.1	Analyze Changes to "Back Office" Costs and Ops									0
11.2.2	Maintenance of Infrastructure and Toll Systems									0
11.2.3	Enforcement in Lanes									0
<b>11.3 Evaluation of Toll Plaza Options</b>										
11.3.1	Evaluate Cost/Benefit & Operational Impact									0
<b>11.4 Design Services</b>										
11.4.1	Toll System Design									0
11.4.2	Demolition/Removal Plan				2	2	10			14
11.4.3	Signing & Pavement Markings			4	10	40	40			94
11.4.4	Traffic Control Plan				4	16	24			44
11.4.5	Reuse of Facilities									0
11.4.6	Contract Documents			16	16	24		80		64
11.4.7	QA/QC			8	16					24
<b>11.5 Construction Phase Services</b>										
11.5.1	Advertise				2	8			8	18
11.5.2	Distribute Plans & Addenda				2	8	16		4	30
11.5.3	Pre-bid Meeting				2	6			2	10
11.5.4	Bid Opening & Review				2	4			8	14
11.5.5	Contract Execution			2	8	4			16	30
11.5.6	Field Inspection Services			4		16	120		8	148
11.5.7	Walk Thru & Punch List				4		8		4	20
11.5.8	Project Closeout			8	4		12		8	36
<b>11.6 Toll System Development &amp; Oversight</b>										
11.6.1	Work Plan & Schedule									0
11.6.2	Marketing / Communications Plan									0
11.6.3	Toll Collection System Monitoring & Refinement									0
11.6.4	Interagency Coordination			8	16	16				40
11.6.5	Modify Toll Collection System Maint Contract		4	16						20
<b>11.7 Facilitate Sale of Excess Toll Equipment</b>										
11.7	Facilitate Sale of Excess Toll Equipment									0

Assumes 2 month construction schedule

TOTAL GEC TEAM DIRECT LABOR	A	B1	B	C	D	E	F1	F	TOTAL
% Total by Classification	0.00%	0.59%	10.97%	16.52%	25.96%	36.28%	0.00%	9.73%	

<b>Labor Costs</b>		\$ -	\$ 328	\$ 5,032	\$ 6,384	\$ 7,744	\$ 8,118	\$ -	\$ 1,518	\$ 29,124
<b>Overhead Costs</b>	155.59%	\$ -	\$ 510	\$ 7,829	\$ 9,933	\$ 12,049	\$ 12,631	\$ -	\$ 2,362	\$ 45,314
<b>Profit</b>	15%	\$ -	\$ 126	\$ 1,929	\$ 2,448	\$ 2,969	\$ 3,112	\$ -	\$ 582	\$ 11,166
<b>Total Loaded Labor</b>		\$ -	\$ 964	\$ 14,790	\$ 18,764	\$ 22,762	\$ 23,861	\$ -	\$ 4,462	\$ 85,604

Direct Expenses	Cost
Printing	\$ 500
Newspaper Ads	\$ 1,500
Misc expenses	\$ 500
Mileage	\$ 1,500
<b>Total Direct Expenses</b>	<b>\$ 4,000</b>
<b>Total Loaded Labor</b>	<b>\$ 85,604</b>
<b>Total Direct Expenses</b>	<b>\$ 4,000</b>
<b>Total</b>	<b>\$ 89,604</b>

**GENERAL MEETING OF THE BOARD OF DIRECTORS  
OF THE  
CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**

**RESOLUTION NO. 08-15**

WHEREAS, the Central Texas Regional Mobility Authority ("CTRMA") was created pursuant to the request of Travis and Williamson Counties and in accordance with provisions of the Transportation Code and the petition and approval process established in 43 Tex. Admin. Code § 26.01, *et seq.* (the "RMA Rules"); and

WHEREAS, the Board of Directors of the CTRMA has been constituted in accordance with the Transportation Code and the RMA Rules; and

WHEREAS, the CTRMA entered into a Comprehensive Development Agreement effective November 29, 2004 for the construction of the 183-A Turnpike Project (the "Initial 183A Project") with tolled main lanes extending from Lakeline Boulevard to north of FM 1431 and frontage roads extending north from that point to the South San Gabriel River; and

WHEREAS, the Initial 183A Project was opened for use on March 3, 2007 with usage significantly above projections; and

WHEREAS, the design and construction of main lanes north from FM 1431 was anticipated to begin in approximately 2012; however, due to the success of the Initial 183A Project, it has been determined that such efforts should be undertaken at this time regarding the extension of the main lanes from north of FM 1431 to north of RM 2243 (the "183A Main Lane Extension"); and

WHEREAS, the CTRMA Board of Directors has adopted a Policy Regarding the Procurement of Good and Services that provides a process for procuring design and engineering services through the solicitation for responses to a Request for Qualifications ("RFQ"); and

WHEREAS, the Board of Directors has determined that CTRMA staff should initiate the process for procuring the necessary design and engineering services required for the 183A Main Lane Extension by drafting and issuing an RFQ to solicit responses from entities qualified and interested in providing such design and engineering services.


NOW THEREFORE, BE IT RESOLVED, that the Board of Directors of the CTRMA hereby authorizes the Executive Director and staff to develop and issue an RFQ to solicit responses from entities qualified and interested in providing the design and engineering services for the 183A Main Lane Extension; and

BE IT FURTHER RESOLVED, that the Executive Director shall implement a process to review and evaluate the responses to the RFQ and develop recommendations for the Board of Directors as to the best qualified entity or entities to provide the design and engineering services for the 183A Main Lane Extension; and


BE IT FURTHER RESOLVED, the authorization granted herein by the Board of Directors shall only extend to the issuance of the RFQ and the evaluation of responses received, with recommendations based on the review and evaluation of the responses being presented to the Board of Directors for final approval.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 26th day of March, 2008.

Submitted and reviewed by:

  
\_\_\_\_\_  
Tom Nielson  
General Counsel for the Central  
Texas Regional Mobility Authority

Approved:

  
\_\_\_\_\_  
Robert E. Tesch  
Chairman, Board of Directors  
Resolution Number 08-15  
Date Passed 3/26/08



## CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY

### Notice of Issuance of Request for Qualifications for Transportation Engineering and Design Services for the 183A Turnpike Extension Project

The Central Texas Regional Mobility Authority (CTRMA), a regional entity granted powers under state law to study, design and construct transportation projects in the region (i.e., Travis and Williamson Counties) and adjacent areas as permitted by law, is soliciting qualification statements from professional services firms interested in providing the CTRMA with transportation engineering and design services necessary to implement the 183A Turnpike Extension Project from north of FM1431 to north of RM 2243. It is anticipated that these services will include the completion of final designs and the development of plans, specifications and estimates necessary to construct the Project. The CTRMA currently intends to select one (1) professional services firm for the required services.

The Request for Qualifications (RFQ) will be initially available at a pre-proposal conference on \_\_\_\_\_, 2008 (see below for additional pre-proposal conference information). Copies may also be obtained on \_\_\_\_\_, 2008 from the CTRMA website at [www.ctrma.org](http://www.ctrma.org), or by contacting the CTRMA Project Office at (512) 996-9778. Any clarifications and addenda will be posted on the CTRMA website. All interested parties are responsible for monitoring the website for such materials and respondents shall be responsible for compliance with any clarifications or addenda posted thereon.

The pre-proposal conference will be held on \_\_\_\_\_, 2008 for interested parties. The purpose of the conference will be to review the main elements of the RFQ, present the process for submitting Responses, and respond to questions concerning the Project. The pre-proposal conference will be immediately followed by a Historically Underutilized Business (HUB) and Disadvantage Business Enterprise (DBE) networking session. This session is intended to allow HUB/DBE firms and companies the opportunity to meet and discuss potential teaming opportunities with firms that will likely submit responses to the RFQ as prime providers. The pre-proposal conference and HUB/DBE networking session will be held from 2:00 p.m. to 4:00 p.m. local time at \_\_\_\_\_, located at \_\_\_\_\_, Texas \_\_\_\_\_. Although attendance at the pre-proposal conference and HUB/DBE networking session is not a condition of submitting a Response, the CTRMA strongly encourages firms to participate in both events.

All Responses shall be received by the Central Texas Regional Mobility Authority, 301 South Congress Avenue, Suite 650, Austin, Texas 78701. Attn: Wesley M. Burford, P.E., Director of Engineering, no later than 4:00 p.m. local time, on \_\_\_\_\_, 2008. An Original plus four (4) copies of the Response shall be submitted, for a total of five (5) submitted documents.

It is the policy of the CTRMA to encourage the participation of HUBs, DBEs, minorities, and women in all facets of its activities. The commitment of the proposing entity to utilization of HUBs and/or DBEs will be considered in the Response evaluation process. The CTRMA currently intends to utilize a HUB and/or DBE participation goal of 12.7% during the performance of these services.

Each proposing entity will be evaluated based on the criteria and process set forth in the RFQ.

Any questions concerning this RFQ must be submitted in writing to: Mr. Wesley M. Burford, P.E., Director of Engineering, Central Texas Regional Mobility Authority, 301 South Congress Avenue, Suite 650, Austin, Texas 78701. Any responses will be posted on the CTRMA website at [www.ctrma.org](http://www.ctrma.org) for the benefit of all potential respondents. Questions must be received by 5:00 p.m. local time on \_\_\_\_\_, 2008.

**GENERAL MEETING OF THE BOARD OF DIRECTORS  
OF THE  
CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**

**RESOLUTION NO. 08-16**

WHEREAS, the Central Texas Regional Mobility Authority ("CTRMA") was created pursuant to the request of Travis and Williamson Counties and in accordance with provisions of the Transportation Code and the petition and approval process established in 43 Tex. Admin. Code § 26.01, *et seq.* (the "RMA Rules"); and

WHEREAS, the Board of Directors of the CTRMA has been constituted in accordance with the Transportation Code and the RMA Rules; and

WHEREAS, in a minute order approved on August 25, 2005, the Texas Transportation Commission authorized the CTRMA to pursue the development of the 290 East Turnpike Project (the "Project"); and

WHEREAS, CTRMA staff and its General Engineering Consultant have determined that the design and engineering of the Project should be undertaken in three segments, such segments being described as Segment #1 (from US 183 to Tuscany Way, including four direct connectors at the US 183 interchange), Segment #2 (from Tuscany Way to FM 3177 [Decker Lane]), and Segment #3 (from FM 3177 to FM 734 [Parmer Lane]); and

WHEREAS, in Resolution No. 07-70, dated December 7, 2007, the Board of Directors authorized CTRMA staff to initiate the process for procuring design and engineering services for the design and engineering of the Project in the Segments described above by drafting and issuing the appropriate solicitation documents to solicit responses to a request for qualifications ("RFQ") from entities qualified and interested in providing such design and engineering services; and

WHEREAS, CTRMA staff issued the RFQ on January 22, 2008 and held a pre-proposal conference on the same day to discuss various aspects of the RFQ with potentially interested parties, with the RFQ providing that a potential design team should submit a response to the RFQ only in relation to one of the three Segments; and

WHEREAS, 22 total responses were received by the CTRMA on or before the submittal deadline of February 11, 2008; and

WHEREAS, an evaluation committee comprised of CTRMA staff and consultants evaluated all of the responses received utilizing the evaluation criteria set forth in the RFQ and subsequently developed a short list of three responders for each of the Segments to be interviewed for further evaluation; and

WHEREAS, the evaluation committee conducted interviews with each of the short-listed responders in accordance with the pre-established evaluation criteria and has developed

recommendations for the engineering teams to be selected to contract with the CTRMA to provide design and engineering services for each of the Project Segments; and


WHEREAS, the Executive Director and CTRMA staff, pursuant to the evaluation conducted by the evaluation committee, recommend that respective contracts be negotiated and executed with the following engineering teams: Jacobs Carter Burgess for Segment #1, LJA Engineering for Segment #2 and KCI Kennedy Consulting for Segment #3.

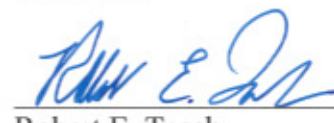
NOW THEREFORE, BE IT RESOLVED, that the Board of Directors of the CTRMA hereby adopts the recommendation of the Executive Director and CTRMA staff to enter into negotiations and finalize contracts for the design and engineering of the Project as follows: Jacobs Carter Burgess for Segment #1, LJA Engineering for Segment #2 and KCI Kennedy Consulting for Segment #3, and authorizes the Executive Director to finalize and execute each of the contracts on the terms and conditions acceptable to the Executive Director and consistent with the RFQ and the respective responses to the RFQ received from each of the named engineering teams.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 26th day of March, 2008.

Submitted and reviewed by:

Approved:

  
\_\_\_\_\_  
Tom Nielson  
General Counsel for the Central  
Texas Regional Mobility Authority

  
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Robert E. Tesch  
Chairman, Board of Directors  
Resolution Number 08-16  
Date Passed 3/26/08



Central Texas Regional  
Mobility Authority

## MEMORANDUM

TO: Mike Heiligenstein  
Executive Director

DATE: March 18, 2008

FROM: Wesley M. Burford, P.E.  
Director of Engineering

SUBJECT: 290 East Design Consultant Procurement Recommendations

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On Monday February 11, 2008, a total of 22 firms responded to the Request for Qualifications (RFQ) issued for design services on the 290E toll project.

Of the 22 statements of qualifications received in response to the RFQ's, nine firms were shortlisted for further consideration, three for each segment of the project.

Nine shortlisted firms were engaged in a 45 minute interview on March 4<sup>th</sup> and March 5<sup>th</sup>, 2008 and were evaluated based on pre-established criteria;

### Recommendation

Based on the interview process, I am recommending that the CTRMA enter into negotiations for professional service contracts with the following firms for the associated design segments;

Segment 1 – (US 183 to Tuscany Way)	<b>Jacobs Carter Burgess</b>
Segment 2 – (Tuscany Way to FM 3177)	<b>LJA Engineering</b>
Segment 3 – (FM 3177 to FM 734)	<b>KCI Kennedy Consulting</b>

This recommendation provides for 30% of the work being dedicated to DBE firms and 17 out of the 25 firms which comprise the three teams are local to the Austin area, for a total *local* participation exceeding 65%.

Please let me know if you need any additional information.

**GENERAL MEETING OF THE BOARD OF DIRECTORS  
OF THE  
CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**

**RESOLUTION NO. 08-17**

WHEREAS, the Central Texas Regional Mobility Authority ("CTRMA") was created pursuant to the request of Travis and Williamson Counties and in accordance with provisions of the Transportation Code and the petition and approval process established in 43 Tex. Admin. Code § 26.01, *et. seq.* (the "RMA Rules"); and

WHEREAS, the Board of Directors of the CTRMA has been constituted in accordance with the Transportation Code and the RMA Rules; and

WHEREAS, the CTRMA is charged with funding and developing transportation improvements throughout the region to help solve the current mobility crisis and improve the quality of life for residents of Central Texas; and

WHEREAS, the general engineering consultant retained by the CTRMA (the "GEC") previously developed a scope of work and a proposed budget to conduct traffic simulations and other feasibility work related to various CTMRA projects and potential projects; and

WHEREAS, the Board of Directors in Resolution 06-35, dated June 28, 2006, approved Work Authorization No. 6.0 and found that the scope of work included therein was necessary and appropriate to further assess the feasibility of certain projects and potential projects and further determined in Resolution 06-63, dated October 25, 2006 that Supplement No. 1 should be adopted to fulfill the scope of work; and

WHEREAS, the GEC has undertaken the scope of work described in Work Authorization No. 6.0, and has determined that further efforts are necessary to realize the full benefits of such scope of work; and

WHEREAS, the CTRMA staff and the GEC have represented to the Board of Directors that Supplement No. 2 to Work Authorization No. 6.0 in substantially the form attached hereto as Attachment "A" is necessary and appropriate to allow for the further assessment of the feasibility of certain projects and potential projects.

NOW THEREFORE, BE IT RESOLVED, that the Board of Directors of the CTRMA approves Supplement 2 to Work Authorization No. 6.0 in substantially the form attached hereto as Attachment "A"; and

BE IT FURTHER RESOLVED, that all work performed under Supplement 2 to Work Authorization No. 6.0 shall be subject to the Agreement for General Consulting Civil Engineering Services between the CTRMA and the GEC and that no additional work may be undertaken without the specific approval of the Board of Directors.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 26th day of March, 2008.

Submitted and reviewed by:



Tom Nielson  
General Counsel for the Central  
Texas Regional Mobility Authority

Approved:



Robert E. Tesch  
Chairman, Board of Directors  
Resolution Number 08-17  
Date Passed 3/26/08

Attachement "A"  
To  
Resolution No. 08-17  
Supplement 2 to Work Authorization No. 6.0

## ATTACHMENT "A"

### WORK AUTHORIZATION

Work Authorization No. 6.0

Supplement No. 2

This Supplement No. 2 to Work Authorization No. 6.0 is made as of this \_\_\_ day of April, 2008, under the terms and conditions established in the AGREEMENT FOR GENERAL CONSULTING ENGINEERING SERVICES, dated as of September 1st, 2003 (the Agreement), between the Central Texas Regional Mobility Authority (Authority) and HNTB Corporation (GEC). This Supplement No. 2 to Work Authorization 6.0 is made for the following purpose, consistent with the services defined in the Agreement:

#### *Feasibility Study Work*

The following terms and conditions of Work Authorization No. 6.0 are hereby amended, as follows:

#### **Section A. - Scope of Services**

A.1. GEC shall perform the following Services:

Refer to Attachment A – Scope of Work

A.2. The following Services are not included in this Work Authorization, but shall be provided as Additional Services if authorized or confirmed in writing by the Authority.

Refer to Attachment A – Scope of Work

A.3. In conjunction with the performance of the foregoing Services, GEC shall provide the following submittals/deliverables (Documents) to the Authority:

Refer to Attachment A – Scope of Work

#### **Section B. - Schedule**

GEC shall perform the Services and deliver the related Documents (if any) according to the following schedule:

Services defined herein are expected to be substantially complete within **six (6) months** from the date this Supplement No. 2 to Work Authorization 6.0 becomes effective. This Supplement to Work Authorization 6.0 will not expire until all tasks associated with the Scope of Services are complete.



**Section C. - Compensation**

C.1. In return for the performance of the foregoing obligations, the Authority shall pay to the GEC the amount not to exceed \$\_\_\_\_\_ based on Attachment B-Fee Estimate. This will increase the not to exceed compensation amount for Work Authorization No. 6.0 from \$409,895.00 to \$\_\_\_\_\_. Compensation shall be in accordance with the Agreement.

The Authority and the GEC agree that the budget amounts contained in Attachment B-Fee Estimate for the various companies and firms composing the GEC are estimates and that these individual figures may be redistributed and/or adjusted as necessary over the duration of this Work Authorization. The GEC may alter the compensation distribution between tasks or work assignments to be consistent with the Services actually rendered within the total Work Authorization amount. The GEC shall not exceed the maximum amount payable without prior written permission by the Authority.

C.2. Compensation for Additional Services (if any) shall be paid by the Authority to the GEC according to the terms of future Work Authorizations.

**Section D. - Authority's Responsibilities**

The Authority shall perform and/or provide the following in a timely manner so as not to delay the Services of the GEC. Unless otherwise provided in this Work Authorization, the Authority shall bear all costs incident to compliance with the following:

N/A

**Section E. - Other Provisions**

The parties agree to the following provisions with respect to this specific Work Authorization:

N/A

Except to the extent expressly modified herein, all terms and conditions of the Agreement shall continue in full force and effect.

Authority: Central Texas Regional Mobility  
Authority

GEC: HNTB Corporation

By: \_\_\_\_\_

By: \_\_\_\_\_

Signature: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

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

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

**CENTRAL TEXAS RMA****ATTACHMENT A – SCOPE OF WORK****WORK AUTHORIZATION NO. 6.0  
SUPPLEMENT NO. 2****SERVICES TO BE PROVIDED BY THE GENERAL ENGINEERING CONSULTANT  
(GEC)**

This scope of services includes the provision of professional services and deliverables for various tasks related to the study of tolling projects.

**TASK 1 – PROJECT MANAGEMENT & ADMINISTRATION**

The GEC will perform project management, administrative and coordination duties, including contract administration, project management, reporting, meeting minutes of required meetings and telephone conversations, and other related administrative tasks (e.g., direct costs) associated with the Project, including:

- 1.1 Coordinate, execute and administer work authorizations as required with the CTRMA and the subconsultants.
- 1.2 Progress Reports and Invoices – Prepare monthly invoices and progress reports for the work tasks, together with evidence of work accomplished during the time period since the previous report. Prepare a detailed schedule (provide in the CTRMA approved format) of anticipated monthly invoice billing linking to the project work authorization tasks. A monthly progress report will be submitted and will include: activities completed, initiated or ongoing, during the reporting period; activities planned for the coming period; problems encountered and actions to remedy them; overall status, including a tabulation of percentage complete by task; updated project schedule; minutes of study meetings and copies of monthly correspondence. The GEC will also provide a weekly e-mail summary to the CTRMA that briefly summarizes services performed and activities that occurred that week, including any required action items or any other pertinent project issues.
- 1.3 Record Keeping and File Management – Maintain all records and files related to the Project throughout the duration of the services. Uploading of project files to a shared *website* will be coordinated with the CTRMA. Maintain and update via an approved software the deliverables tracking log provided by the CTRMA and denote specific submittals in the weekly e-mail summary.
- 1.4 Correspondence – Prepare written materials, letters, survey forms, etc. used to solicit information or collect data for the project and submit them to the CTRMA for review and

approval prior to its use or distribution. Copies of outgoing correspondence and incoming correspondence will be provided to the CTRMA on a continuing basis, but not less than once a month.

- 1.5 Work Authorization Schedule – Prepare a detailed, graphic schedule linking work authorization tasks, subtasks, critical dates, milestones, deliverables and CTRMA/Texas Department of Transportation (TxDOT)/ Federal Highway Administration (FHWA) review requirements. The project schedule will be in a format, which depicts the order and inter-dependence of the various tasks, subtasks, milestones and deliverables for each of the tasks identified therein. Progress will be reviewed periodically for conformance to work schedule Exhibit “C” and should these reviews indicate a substantial change in progress, a schedule recovery strategy will be developed and implemented and the schedule will be revised accordingly.

## **TASK 2 – 183A EXTENSION TOLL PROJECT SCHEMATIC**

The GEC will provide professional services and deliverables in support of CTRMA’s development of the 183A Extension Toll Project from north FM 1431 to the north side of the South San Gabriel River. Included in this scope are efforts associated with:

- Design Services – Schematic Review, Revision, Design Survey, and Design

### **2.1 Design Services – Schematic Review and Revision**

This work will include engineering design services for the 183A Turnpike from north of FM 1431 to the north side of the South San Gabriel River. The tasks shall include: general evaluation of the existing 183A Schematic (from FM 1431 to north of the San Gabriel River) and revisions required due to evaluation; revisions to schematic design to revise all proposed toll collection facilities including adjustment of ramp locations/lengths; identification of proposed ETC tolling locations; revisions to/development of the Schematic for expanded project limits (to the north side of the South San Gabriel River); coordination with adjacent corridor land owners with respect to future development; and coordination with Williamson County 183A frontage road design.

#### **2.1.1. 183A Design Schematic**

- 2.1.1.1. Design Criteria - Review and update where appropriate the design criteria for 183A.

- (a) Design Speed.
  - Mainlanes: 70 mph.
  - Ramps: 40 mph.
  - Frontage Roads: 60 mph.
  - Cross streets consistent with current available local major thoroughfare plans, including those of Cedar Park and Leander.

- 2.1.1.2. Horizontal and Vertical Alignments - Review and where appropriate revise horizontal and vertical alignments and proposed ROW limits for the proposed 183A facility from north of FM 2243 to north of the San Gabriel River. Roadway geometry will be based on the criteria and requirements set forth in Part IV of the TxDOT Roadway Design Manual.
- (a) The horizontal alignment will show bearings in the tangent sections and complete curve data including delta angles, PI stations, tangent lengths, length of curve, and radii. The plan views will show the center-line, edge of pavement, striping, lane widths, shoulder widths, cross slopes, superelevations with transitions, direction of traffic flow, and layouts for all speed change lanes. The GEC will provide horizontal alignments as follows:
    - Mainlane horizontal alignment.
    - Frontage road horizontal alignments.
    - Entrance and exit ramps horizontal alignments for both southbound and northbound directions.
    - Cross street horizontal alignments, best fit of the existing cross street between the frontage roads.
    - Turnaround horizontal alignments.
    - ROW limits, showing proposed Control of Access as necessary.
  - (b) The GEC will review existing and proposed grade separation structures and, where appropriate, develop horizontal turnarounds. Acceleration and deceleration lanes will be provided for at all turnarounds.
  - (c) The vertical alignment will show existing and proposed elevations at 100-foot intervals, vertical curve VPI stations, curve lengths, superelevation rates and transitions, design speeds, "K" values (evaluation to obtain minimum "K" values), and tangent grades. The GEC will provide vertical alignments as follows:
    - Main lane vertical alignment.
    - Frontage road vertical alignment.
    - Entrance and exit ramps vertical alignments.
    - Cross road vertical alignments.
    - Turnaround vertical alignments, straight grade alignments between the frontage roads.
- 2.1.1.3. Typical Sections - The GEC will evaluate and revise typical sections for mainlanes, frontage roads, ramps, and cross streets within the 183A ROW and Williamson County Layout, and develop additional typical sections as needed for the expanded project limits. Typical sections will include preliminary pavement sections approved by CTRMA and will also show the intermediate phases of construction as determined by preliminary construction phasing. Typical sections will be shown on the Schematic.
- 2.1.1.4. Toll Collection System Development
- (a) Identify proposed tolling locations

- (b) Develop basic tolling facilities layouts

#### 2.1.1.5. Schematic Development & Revisions

- (a) The Schematic will be prepared in English units with MicroStation V8 and GEOPAK. The GEC will prepare the Schematic drawing using the same scale, legend and symbology as the existing 183A Schematic.
- (b) The GEC will provide technical staff to participate in a Schematic Workshop with the CTRMA. The GEC will provide a color Schematic of the plans to be used in the Schematic Workshops.
- (c) The GEC will assess the currently proposed retaining walls, update the retaining wall locations as needed due to geometric design revisions, and determine locations of retaining walls for the expanded project limits. Geotechnical evaluation of the preferred retaining wall type will not be completed under this Work Authorization.
- (d) The GEC will determine the bridge limits, bent locations, span type, and length of the bridge over the San Gabriel River.
- (e) The GEC will review the earthwork cross-sections and evaluate methods to improve sections to minimize costs and maintain a safe facility, and produce preliminary earthwork cross sections for the expanded project limits.
- (f) The GEC will develop preliminary construction phasing showing proposed intermediate phasing of construction, to be shown on the typical sections.
- (g) GEC will review the locations of guide signs and pavement markings for compliance with Texas Manual for Uniform Traffic Control Devices (TMUTCD). The GEC will update signs and pavement markings as needed due to geometric design revisions and proposed tolling configuration, and determine the locations of additional signs and pavement markings for the expanded project limits.
- (h) The GEC will provide to CTRMA, as a final product, three (3) color copies of the Schematic. The Final Schematic shall also be provided in a digital format. CADD Files shall be provided for Document and Information Exchange. The updated Final Schematic will include the following:
  - The location of all main lanes, grade separations, frontage roads, ramps, and bridges.
  - Vertical profiles for mainlanes, frontage roads, and ramps.
  - Traffic flow direction on all roadways.
  - Right of Way and Control of Access lines.
  - Geometric typical sections (including pavement cross slopes, lane and shoulder widths, and slope intercept lines for cuts and fills) for proposed mainlanes, ramps, frontage roads, and cross streets.
  - ETC toll gantry footprints and layouts.
  - Current and projected traffic volumes as provided by CTRMA (20-year projections, unless determined otherwise by the CTRMA).

- Guide signs.
  - Toll signs.
  - Geometry of speed change (acceleration, deceleration, climbing, etc.) lanes.
  - Location of proposed structures, including pertinent dimensions, lanes on roadways and bridges, directions of travel and preliminary vertical clearances for grade separations.
- (i) Additional copies of Schematic to be provided include:
- Draft Preliminary Schematic, three copies, for review by CTRMA.
  - Preliminary Schematic, three copies, for TXDOT and FHWA review.
- 2.1.1.6. Hydrologic/Hydraulic Analysis – The GEC will perform a hydrologic study and preliminary hydraulic analysis to determine approximate sizes and locations of major drainage structures and bridges.
- 2.1.1.7. Construction Estimate - The GEC will develop a construction estimate for the construction detailed in the construction phasing.
- 2.1.1.8. Coordination – The GEC will coordinate with Williamson County and adjacent Corridor land owners in regards to future development and access. The GEC will also coordinate design with schematic design of 183A north of RM 2243 with the Williamson County frontage road designs to coordinate at the project transitions.
- 2.1.1.9. QA/QC – The GEC will provide Quality Control/Quality Assurance for all design and schematic production activities.

## **2.2 Design Survey**

Provide the following surveying and aerial mapping services in connection with the US 183A design project for the CTRMA. The general survey control and aerial mapping limits, along with assumptions and quantities used to develop the estimate are as follows:

- From 500 feet south of RM 1431 to 500 feet north of the San Gabriel River, 7.2 miles, 62 aerial panels, 4 flight lines, 51 models.

### **2.2.1. Aerial Photography Control Surveys**

#### **2.2.1.1. Right of Entry (ROE) on Private Property**

- (a) Because all of the aerial panels will be set either within the right of way (ROW) of US 183A or within the ROW of cross roads, no ownership research or right of entry effort is proposed nor budgeted as part of this scope and estimate.

#### **2.2.1.2. Horizontal and Vertical Control for Aerial Mapping**

- (a) Recover existing US 183A control within the mapping limits, as well as control recently established for the mapping project north of the river, and utilize this control datum as the primary control for the project.

- (b) Set a pair of aerial panels (each 4' X 4' overall) at approximate 1500-foot intervals within the mapping limits based upon a control layout map to be prepared. The panels will be set near the east and west ROW (assumed to average 400' wide) of US 183A, or whenever possible, within the ROW of roadways crossing US 183A.
- (c) Based upon the project control recovered as a part of this scope of services, horizontal and vertical values will be determined for each panel using GPS methods performed to TxDOT "Level 3" standards and digital level loops, respectively.
- (d) A control drawing of the primary and aerial panel control will be delivered in a digital dgn file and hardcopy 11x17 mylar. Field book copies will also be provided.

### 2.2.2. Aerial Mapping

- 2.2.2.1. All aerial mapping efforts will conform to TxDOT Standards and Specifications and National Map Accuracy Standards (NMAS).
- 2.2.2.2. The aerial mapping project corridor is approximately 4.0 miles for Option 1, 3.2 miles for Option 2 and 7.2 miles for Option 3 along US 183A, as described above. The planimetric and DTM collection boundary will be approximately 400' (200' left and right of the ROW centerline of US 183A. At cross roads, the mapping corridor width will increase to 800' (400' left and right of the centerline of US 183A).
- 2.2.2.3. The photo scale will be 1" = 250'. The aerial photography flight height will be 1,500 feet Above Mean Terrain (AMT). This project will be flown within 3 days of panel placement, assuming weather permitting aerial photography.
- 2.2.2.4. Project Scope for Aerial Mapping
  - (a) There will be 4 flight lines with a total of approximately 56 color exposures. The film processed directly after the photo mission is accomplished. All negatives will be quality control checked by SAM, Inc.
  - (b) Negatives will be scribed to TxDOT standards.
  - (c) All negatives will be scanned at 14 microns on our DSW 700 Photogrammetric Scanner for use on softcopy digital photogrammetric workstations. The scanned imagery will be utilized in support of the digital analytical aerial triangulation, digital map compilation, and Digital orthophotography generation efforts by SAM, Inc.
  - (d) Fully analytical digital aerial triangulation will be performed on approximately 51 stereo models using digital softcopy techniques and ORIMA triangulation software. The triangulation adjustment for each flight strip will meet NMAS requirements for producing 1:3000 scale mapping. A summary report of the triangulation results is included as a deliverable item.

- (e) Mapping will include a Digital Terrain Model (DTM) consisting of breakline and mass point data suitable for producing 1' contours. TxDOT Legend for Symbology will be used. In areas where the ground is not visible due to tree canopy or dense vegetation ground cover, the area will be outlined and defined as obscured.
- (f) All electronic files will be fully compatible with the State's MicroStation/GeoPak System without further modification or conversion.
- (g) Files will include as applicable all features listed on the State's current Photogrammetric Mapping Legend symbology and level structure will be in compliance with the State's current Photogrammetric Mapping Legend.
- (h) Color digital orthophoto images will be provided in TIFF and HMR image formats with an associated geo-referenced world file at a ¼' pixel resolution.

### **2.2.3. Aerial Mapping and Survey Control Deliverables**

2.2.3.1. The aerial film negative will be delivered to the CTRMA.

2.2.3.2. Two sets of the following deliverables will be transmitted to HNTB Corporation:

- (a) Analytical Aerial Triangulation Summary Report.
- (b) Metadata File (README.txt file)
- (c) Digital photogrammetric data:
  - MicroStation US feet (3D) DTM utilizing TxDOT MicroStation V8 seed file.
  - MicroStation US feet (2D) Planimetric/Contours utilizing TxDOT MicroStation V8 seed file.
  - Color digital orthophoto images will be provided in TIFF and HMR image formats with an associated geo-reference world file at a ¼' pixel resolution.
- (d) Survey- Control drawing ( 2D V8 dgn and 11x17 mylar) showing control used and aerial panels. Word text file containing the surveyed control & aerial panel points and Field book copies (hardcopy).

### **2.3 Environmental Re-evaluation**

The work to be performed by the GEC shall consist of providing a re-evaluation, including public involvement, of the Final Environmental Impact Statement (FEIS) of the 183A Turnpike Project from RM 620 to approximately three miles north of the City of Leander.

The re-evaluation will focus on design changes including the construction of mainlanes and the addition of a transition area approximately 1000 feet north of the northern terminus.

#### **Assumptions**

- The projected average daily traffic (ADT) of 183A is less than 140,000, therefore a qualitative MSAT analysis will be prepared for the re-evaluation.



- The GEC will base the re-evaluation on the best information available at the time this work authorization is executed. Incorporation of better information will be considered out of scope.
- This scope assumes no design changes and no revisions to traffic data after the execution date. Should changes be made that would result in the need for additional analysis and/or revisions to the document, any related effort would be considered out of scope.

### **2.3.1. Right-of-Entry**

The GEC will coordinate obtaining right-of-entry for properties not previously assessed or where right-of-way has not been acquired.

### **2.3.2. Data Collection**

The GEC will review the FEIS and any previous re-evaluations for 183A for the history of the Project, consistency with purpose and need, and design changes. The GEC will also perform data collection and site reconnaissance visits within the existing and proposed ROW, upon notice to proceed and receipt of right-of-entry, to supplement data needed to complete the re-evaluation. The GEC will obtain or update periodically publicly available information and perform site investigation including:

- Locations of public buildings, schools, churches, parks, etc.
- Historic-age structures
- Aerial/Infrared photography, if available.
- National Wetland Inventory Maps.
- Site Review for presence of non-inventoried wetlands.
- County Soil Survey Maps.
- TCEQ & EPA Hazardous Materials Database Information.
- FEMA 100-year floodplains.
- Vegetation Information.
- Threatened and Endangered Species Information.
- Noise Receiver Locations.

### **2.3.3. Preparation of Environmental Document**

The GEC shall prepare environmental documentation of the level required by proposed improvements, utilizing the appropriate outline in accordance with; TxDOT's Environmental Manual, Title 23, Parts 771 and 772, FHWA's Technical Advisory T6640.8A, and TxDOT's 1996 Noise Guidelines and 1999 Air Quality Guidelines.

The GEC will include in the document a discussion of the history of the project, the purpose and need, and a description of design changes being assessed. The document will also include an existing environment discussion, direct effects discussion, and indirect, and cumulative impacts analysis as described below.

#### 2.3.4. Existing Environment

Through data collection and field investigation, the GEC will update the description of the affected environment to serve as the basis for determining the environmental consequences of the proposed 183A/CR 274 interchange. This description will include land use, socio-economics (including identification of minority, low income, and limited English proficient (LEP) populations), farmlands, soils, noise, air quality, surface water, groundwater, wetlands, vegetation, wildlife habitat, threatened and endangered species, cultural resources, Section 4(f) properties, and hazardous materials sites.

#### 2.3.5. Archeological Survey

For anticipated new right-of-way, the GEC will perform an archeological survey including shovel tests in accordance with the Texas State Minimum Archeological Survey Standards (TSMASS) for archeological surveys. The following items are included in the archeological survey:

##### *Archival Research*

- The GEC will conduct archival research at the Texas Historical Commission (THC), the Texas Archeological Research Laboratory (TARL), and General Land Office (GLO), the National Park Service's online National Register Information System (NRIS), and /or other relevant archives for information on previous cultural resource investigations conducted in the vicinity of the project's APE and previously recorded cultural resource sites and historic properties in and near the project's APE.

##### *Intensive Pedestrian Survey*

- The GEC will obtain a Texas Antiquities Permit prior to initiating field activities.
- The GEC will perform an intensive pedestrian survey including walkover and surface inspection as well as shovel testing of the project's APE at a level of intensity sufficient to meet or exceed the TSMASS and guidelines established by the Council of Texas Archeologists.
- The GEC will document any cultural resources encountered to a sufficient degree to make preliminary determinations of the significance of the resources in terms of their eligibility for inclusion in the National Register of Historic Places and for designation as State Archeological Landmarks.
- The GEC will inspect the locales of any previously recorded archeological sites within the APE and assess their current condition.
- The GEC will submit State of Texas Archeological Site Data Forms (for new archeological sites) or update forms (for previously recorded sites) to TARL.

##### *Reporting*

- The GEC will prepare a report suitable for review by TxDOT and the THC under Section 106 of the National Historic Preservation Act and the Antiquities Code of Texas. The report will include descriptions of the APE and regulatory background against which archeological investigations were conducted, the environmental and cultural settings of the project are, the results of archival research and the archeological survey, and any archeological resources recorded during the survey.

- A non-collection policy will be employed to the maximum extent practicable.

### 2.3.6. Historic Resources Survey

As part of the re-evaluation of the existing environment, the GEC will update the historic sites listings for the re-evaluation. The GEC will conduct surveys, research and documentation of historic buildings, structures, and objects within the Area of Potential Effect (APE) for proposed right of way that was not previously surveyed. The historic structures survey will follow the Secretary of the Interior's Standards and Guidelines for Archeology and Historic Preservation and will include:

- Field inspection
- Documentation of the survey results;
  - For buildings and other structures, objects and districts, the documentation will include the following for the area of survey, within the APE on either side of the right of way of the proposed 183A Turnpike frontage roads, for any property over 45 years old:
    - A map showing the location of the property in relation to the proposed project area
    - Date of construction
    - Clear photographic prints, including at least one front elevation and one oblique view of each property surveyed, and area or streetscape views in potential districts
    - Research on historical associations
  - Identification of cultural resources that may be eligible for listing or are listed in the National Register of Historic Places, including historic and prehistoric archeological sites, buildings and other structures, objects, districts, traditional cultural properties, and cultural or historic landscapes located during the survey
  - Recommendations regarding National Register eligibility of identified cultural resources
  - Recommendations and descriptions on findings of potential effect
  - Project effects on potentially eligible historic resources

### 2.3.7. Direct Effects

With the information compiled on the affected environment and design and traffic data, the GEC will determine the environmental consequences, or direct effects, of the proposed design changes. The direct effects will be determined on the resource categories analyzed for the Affected Environment. The direct effects will include a qualitative MSAT analysis based upon traffic projections being below the quantitative MSAT criteria threshold of 140,000 ADT. The qualitative analysis will be based upon the FHWA *Interim Guidance on Air Toxic Analysis in NEPA Documents, February 3, 2006*.

### 2.3.8. Indirect and Cumulative Impacts (ICI) Analysis

The GEC will conduct an ICI analysis consistent with the eight-step approach in TxDOT's *Interim Guidance on Preparing Cumulative Impact Analyses*, dated March 2006. The ICI

analysis will focus on impacts from the design changes. The GEC will review changes attributable to past roadway improvements in the area in order to project indirect effects of the proposed improvements in the re-evaluation. The *National Cooperative Highway Research Program Report 466 (NCHRP 466)* will be used as guidance in this analysis.

### 2.3.9. Public Involvement

- 2.3.9.1. Open House: The GEC will prepare and present one (1) open house in support of the re-evaluation. The GEC will attend the open house for the purpose of providing informational materials regarding the re-evaluation, and for gathering comments from the community-at-large, and addressing local concerns regarding the project. The GEC will secure the sites for the open house. Site locations will be submitted to the Authority for approval prior to booking the rooms. Additionally, the GEC will make arrangements for a court reporter to be present at the open house.
- 2.3.9.2. Open House Facilitation: The GEC will prepare and mail meeting notices to identified stakeholders in the database, and develop and publish one (1) legal notice in two newspapers in preparation for the open house. The notices will be placed in previously identified local paper(s) 30 days and 10 days before the open house. Additionally, the GEC will prepare an agenda, project overview, location map, comment cards (up to 500), indoor/outdoor signage, sign-in sheets, exhibit boards (up to 2), and up to four (one page, double-sided) handouts for public use. All project boards and materials will be printed in English. An Open House Summary Report will be prepared after the open house to record public comment. Project communication materials will be approved by the CTRMA before use.
- 2.3.9.3. Open House Staffing: The GEC will provide a project manager, two (2) technical staff members and two (2) support staff members to attend the Public Meeting for the purpose of providing informational materials regarding the project, addressing local concerns, staffing the sign-in table and providing meeting management.

### Exclusions

The following tasks are specifically excluded from the preparation of environmental documents and not included in this work authorization, and would be scoped and detailed at a later date, as necessary:

- Endangered species coordination and/or surveys;
- Biological Assessments;
- USACE 404 delineations and permit coordination;
- Historic/Archeological coordination involving National Register Testing and/or Data Recovery-level excavation or mitigation or Section 106 Coordination except as specifically noted and included above;
- Preparation and coordination for Section 4(f) or Section 6(f) approval;
- Hazardous materials Phase II Environmental Site Assessment;

- Additional documentation services requested as a result of a change in environmental regulations or TxDOT/FHWA documentation standards from those in practice and acceptable at the time of approval of this Work Authorization;
- Work associated with outfalls outside the project ROW after the notice to proceed is received;
- Coordination with TCEQ.

### **Deliverables**

The GEC will prepare a draft re-evaluation for review by TxDOT-ENV (10 copies will be provided). Upon receipt of comments from TxDOT-ENV, the GEC will prepare a second draft for submittal to FHWA (10 copies will be provided). A third and final draft will be prepared to address comments received as a result of FHWA review (20 copies will be provided to TxDOT-ENV and FHWA). An updated re-evaluation will be prepared following the Open House, if determined necessary based on public comment. Should a post-meeting update be necessary, the GEC will respond to one set of review comments.

Deliverables will consist of the following:

- Twenty (20) draft copies, twenty (20) final copies of the re-evaluation document
- 5 copies of the Archeological Report
- 5 copies of the Historic Resources Report
- One (1) Open House
- One (1) Court Reporter
- One (1) Open House transcript
- One (1) legal notice
- One (1) Open House agenda
- Up to five hundred (500) Comment Cards for the Open House
- Up to two (2) exhibit boards for the Open House
- One (1) Handout for the Open House
- One (1) Open House notice/letter for mail out, multiple copies as required
- One (1) electronic and one (1) hard copy of the Open House Summary Report

### **TASK 3 – 183A EXTENSION PROJECT DEVELOPMENT**

This scope of services includes professional services and deliverables in support of CTRMA's development of the 183A Extension Toll Project from north of FM 1431 to the north side of the South San Gabriel River. Included in this scope are efforts associated with:

- Project Development Support – Assistance with Project Development.
- Design Consultant Services Procurement - Assistance in procuring design consultants.
- Design Program Management – Oversight of project design.
- Design Services - Traffic signing plan and toll systems/facilities preliminary design.

### **3.1 Project Development Support**

The Consultant will provide support to the CTRMA as required during the Project Development process. Specific efforts will include:

- 3.1.1. TIFIA Loan Application:** Assist the CTRMA in the development of the TIFIA loan application for the Project as requested. This will include preparation of various elements of the TIFIA loan form & associated documentation; it will also include participation in the coordination efforts as requested by the CTRMA.
- 3.1.2. GEC Engineering and Technical Support:** Provide various engineering and technical tasks as requested by CTRMA including but not limited to: reports and research, presentations, and meetings.
- 3.1.3. Interagency Coordination:** Provide appropriate staff as part of the coordination efforts between the CTRMA and other Agencies. GEC will provide coordination efforts on the CTRMA's behalf at the direction of the CTRMA.
- 3.1.4. Traffic and Revenue (T&R) Consultant Coordination:** Provide continued coordination and support to the CTRMA T&R Consultant, as directed by the CTRMA.
- 3.1.5. Provide Project Cost Estimate, Schedule,** update financial feasibility calculations & provide Official Statement (OS) support: Perform updates to preliminary cost estimate, schedule, and financial analysis necessitated by the ongoing project scoping / sizing process. Develop and certify the Engineers Report for OS. Review and comment on the OS as requested by CTRMA.
- 3.1.6. Provide DBE Outreach and Public Involvement** support as requested by CTRMA.

### **3.2 Design Consultant Services - Procurement**

The GEC will provide support for the acquisition by the CTRMA of professional services as defined in Section 2254.001 of the Texas Government Code, or any successor statute thereto, relative to the acquisition of architecture, professional engineering, and land surveying. With respect to assistance for securing professional design services, these support activities will consist of the following specific tasks (anticipate one (1) solicitation):

- 3.2.1.** Assist CTRMA in Preparation of Scope of Services and Fee Estimate for design of Project, including initial draft, revisions and finalized versions;
- 3.2.2.** Assist CTRMA with Request for Qualifications(RFQ) for Design Consultant (SDC), including RFQ document preparation, addendums and advertising;
- 3.2.3.** Participate with CTRMA Pre-Proposal Conference, including participation, agenda and sign-in sheets;
- 3.2.4.** Participate with CTRMA RFQ evaluations and selection, including development of evaluation criteria;

- 3.2.5. Participate with CTRMA interviews, including development of questions and evaluation criteria;
- 3.2.6. Assist CTRMA in Scope of Services and Fee Negotiations

### **3.3 Design Program Management**

The work to be performed by the GEC will include coordination with CTRMA and the selected Design Consultant (SDC) in the design of the Project. The GEC will provide the overall project supervision, management, scheduling, administration, review and coordination of the SDC preparing plans, specifications and estimates (PS&E) for the 183A Extension Project.

- 3.3.1. Coordinate with CTRMA, TxDOT, CAMPO, Williamson County and other entities as required during Project Development.
- 3.3.2. Prepare a Master Schedule reflecting the schedule provided by the SDC. Coordinate with SDC to maintain an updated version of the Master Schedule for the Project, including planning activities, design, right-of-way acquisition and construction phases. Maintain and revise the Master Schedule, as necessary, during the course of this Work Authorization.
- 3.3.3. Quality Control/Quality Assurance will be an essential element of this task. Regularly scheduled progress meetings (see Task 3.3.5.1) will be conducted with CTRMA or their representative to ensure all components of the Project are proceeding in compliance with the Scope of Services and according to the project schedule. All communications associated with the Project will be directly channeled through the GEC for distribution to the Project Team as appropriate.
- 3.3.4. Develop and implement a Documents Control Plan for the Project, including file management.
- 3.3.5. Manage and oversee SDC activities during the Work Authorization period, including:
  - 3.3.5.1. Conduct a kick-off meeting and bi-weekly progress meetings. (anticipated 36 progress meetings)
  - 3.3.5.2. Review monthly invoices and progress reports. (anticipated 18 months of progress reports)
  - 3.3.5.3. Manage and oversee the preparation of construction documents during the Work Authorization period, including:
    - (a) Review and provide written response on the adequacy of all SDC submittals of plans and reports including structural plans, roadway plans, and engineering reports. Review the PS&E design at 30, 60, 90, and 100 percent milestones. GEC review time will be two weeks. Based upon these reviews, the GEC will recommend acceptance and approval by CTRMA of the plans, specifications and estimates.
    - (b) Ensure that the designs as provided by the SDC are in accordance with applicable requirements of TxDOT Specifications, Standards and

Manuals. Whenever possible, assure that SDCs are using TxDOT's standard drawings, standard specifications, or previously approved special provisions and/or special specifications.

- (c) Conduct constructability reviews, including utility relocations, SW3P, drainage, typical sections, time constraints, correct bid items, etc.
- (d) Oversee submission of plans to TxDOT for review at 30, 60, 90, and 100 percent milestones.
- (e) Oversee submission of plans and Water Pollution Abatement Plan (WPAP) forms to the Texas Commission on Environmental Quality (TCEQ) at 60 and 100 percent milestones.

3.3.6. Assemble two (2) final PS&E packages from SDC with supporting contract documents and provide them to CTRMA for Final PS&E review and processing for letting. The SDC will assist on an as-needed basis. Repackaging of PS&E submittals into different construction packages is not included in the Scope of Services. Assistance for preparation of construction contracts, these support activities generally will consist of the following specific tasks (up to 2 contracts):

- 3.3.6.1. Assistance with solicitation of bids, including advertising and pre-bid conference.
- 3.3.6.2. Assistance with bid review and preparation of recommendations.
- 3.3.6.3. Assistance with contract preparation and administration.

#### **3.4 Design Services - Traffic Signing Concept Plan**

The GEC will develop an overall Traffic Signing Layout Master Plan for the Project. The concept plan will indicate the following:

- 3.4.1. Develop layouts for overall interim and final signing strategies, illustrating proposed large signs including overhead, cantilever, and large ground mounted signs. Include placement of signs outside contract limits.
- 3.4.2. Provide Quality Control/Quality Assurance for signing concept plan.

#### **Deliverables**

- Two (2) roll plot copies of the Draft Signing Concept Plan for CTRMA review.
- Five (5) roll plot copies of the Final Signing Concept Plan for distribution to CTRMA, and SDC.

#### **3.5 Design Services – Toll Systems / Facilities Preliminary Design**

##### **3.5.1. Toll Facilities Preliminary Design Plans**

The GEC will develop preliminary design plans for the tolling system for the 183A Extension Project within the limits of the Work Authorization. It is anticipated the toll system will have 8 (eight) tolled entrances/exits along this portion of the corridor and will



utilize an all electronic cashless collection system (ETC). No toll plazas or major facilities are anticipated in this Project. The GEC will develop the toll facilities design using the revised schematic plans as a base. Sufficient input from CTRMA will be included to ensure proper input is received regarding the design concept(s).

#### 3.5.1.1. Toll Facilities Preliminary Design

- (a) Locate toll systems / facilities on preliminary design plans.
- (b) Include in the preliminary design (in reference to toll systems):
  - Plan view (Structural, Large Signs, Striping)
  - Elevations
  - General Sections
- (c) Analysis of:
  - Toll Operations
  - Mechanical and Electrical Operations
  - Provisions for local utilities
  - Facilities for surveillance, communication and control
- (d) Layouts for overhead sign bridges
- (e) Outline Specifications
- (f) Statement of Probable Construction Cost

### **TASK 4 – LOOP 1 MANAGED LANES PROJECT DEVELOPMENT**

This scope of services includes professional services and deliverables in support of CTRMA's development of the Loop 1 Managed Lanes Project from south of Cesar Chavez to north of FM 734 – Parmer Lane. Included in this scope are efforts associated with:

- Project Development Support – Assistance with Project Development Agreement.
- Design Program Management – Oversight of Project Design.
- Design Services - Toll Systems / Facilities Design.

#### **4.1 Project Development Support**

The GEC will provide support to the CTRMA as required during the Project Development process. Specific efforts will include:

- 4.1.1. TIFIA Loan Application:** Assist the CTRMA in the development of the TIFIA loan application for the Project as required. This will include preparation of various elements of the TIFIA loan form & associated documentation; it will also include participation in the coordination efforts as requested by the CTRMA.+
- 4.1.2. Engineering and Technical Support:** Provide various engineering and technical tasks as requested by CTRMA including but not limited to: general engineering assistance, general technology assistance, general environmental coordination, reports, research, presentations, and meetings.

- 4.1.3. **TxDOT Coordination:** Provide appropriate staff as part of continuing coordination efforts between the CTRMA and TxDOT. GEC will provide coordination efforts on the CTRMA's behalf at the direction of the CTRMA.
- 4.1.4. **Union Pacific Railroad (UPRR) Coordination:** Provide appropriate staff as part of continuing coordination efforts between the CTRMA and UPRR. GEC will provide coordination efforts on the CTRMA's behalf at the direction of the CTRMA.
- 4.1.5. **Traffic and Revenue (T&R) Consultant Coordination:** Provide continued coordination and support to the CTRMA T&R Consultant, as directed by the CTRMA.
- 4.1.6. **Project Development Agreement (PDA):** Assist in the development of the PDA, generation of PDA exhibits, review of PDA drafts, and TxDOT coordination support.
- 4.1.7. **Provide Project Cost Estimate, Schedule,** update financial feasibility calculations & provide Official Statement (OS) support: Perform updates to preliminary cost estimate, schedule, and financial analysis necessitated by the ongoing project scoping / sizing process. Develop and certify the Engineers Report for OS. Review and comment on the OS as requested by CTRMA.
- 4.1.8. **Provide DBE Outreach and Public Involvement** support as requested by CTRMA.

## 4.2 Design Program Management

The GEC will include coordination with CTRMA and the selected design consultant in the design of the Project. The GEC will provide the overall project supervision, management, scheduling, administration, review and coordination of the design consultant preparing plans, specifications and estimates for the project.

- 4.2.1. Coordinate with CTRMA, FHWA, TxDOT, UPRR, CAMPO, County and other entities as required during Project Development.
- 4.2.2. Prepare a Master Program Schedule from schedules provided by the design consultant. Coordinate with the design consultant to maintain an updated version of the Master Schedule for the Project, including planning activities, design, right-of-way acquisition and construction phases. Maintain and revise the Master Program Schedule, as necessary, during the course of this Work Authorization.
- 4.2.3. Quality Control/Quality Assurance will be an essential element of this task. Regularly scheduled progress meetings (see Task 4.2.5.1) will be conducted with CTRMA or their representative to ensure all components of the Project are proceeding in compliance with the Scope of Services and according to the project schedule. All communications associated with the Project will be directly channeled through the GEC for distribution to the Project Team, as appropriate.
- 4.2.4. Develop and implement a Documents Control Plan for the Project, including file management.
- 4.2.5. Manage and oversee the design consultant's activities during the Work Authorization period, including:

- 4.2.5.1. Conduct a kick-off meeting and bi-weekly progress meetings. (anticipated 50 progress meetings)
- 4.2.5.2. Review monthly invoices and progress reports. (anticipated 24 months of progress reports)
- 4.2.5.3. Manage and oversee the preparation of construction documents during the Work Authorization period, including:
  - (a) Review and provide written response on the adequacy of all design consultant submittals of plans and reports including structural plans, roadway plans, and engineering reports. Review the PS&E design at 30, 60, 90, and 100 percent milestones. GEC review time will be two weeks. Based upon these reviews, the GEC will recommend acceptance and approval by CTRMA of the plans, specifications and estimates.
  - (b) Ensure that the designs as provided by the design consultants are in accordance with applicable requirements of TxDOT Specifications, Standards and Manuals. Whenever possible, ensure that the design consultant is using TxDOT's standard drawings, standard specifications, or previously approved special provisions and/or special specifications.
  - (c) Conduct constructability reviews, including utility relocations, SW3P, drainage, typical sections, time constraints, correct bid items, etc.
  - (d) Oversee submission of plans to TxDOT for review at 30, 60, 90, and 100 percent milestones.
  - (e) Oversee submission of plans and Water Pollution Abatement Plan (WPAP) forms to the Texas Commission on Environmental Quality (TCEQ) at 60 and 100 percent milestones.
  - (f) Assemble two (2) final PS&E packages, roadway and noise wall construction, from the design consultant with supporting contract documents and provide them to CTRMA for Final PS&E review and processing for letting. The design consultant will assist on an as-needed basis. Repackaging of PS&E submittals into different construction packages is not included in the Scope of Services.
- 4.2.5.4. Assistance for preparation of construction contracts, these support activities generally will consist of the following specific tasks (up to 2 contracts):
  - (a) Assistance with solicitation of bids, including advertising and pre-bid conferences.
  - (b) Assistance with bid reviews and preparation of recommendations.
  - (c) Assistance with contract preparation and administration.

### **4.3 Design Services – Toll Systems / Facilities Design**

#### **4.3.1. Toll Schematic Design Plans**

The GEC will develop schematic design plans for the tolling system for the Loop1 Managed Lanes Project. It is anticipated the toll system will have six (6) entrances/exits

along the Corridor and will utilize an Electronic Toll Collection (ETC) system (cashless). No toll plazas or major facilities are anticipated in this project. The GEC will coordinate with the design consultant and develop the toll design using the design consultant plans as a base. Sufficient input from CTRMA and TxDOT will be included to ensure proper input is received regarding the design concept(s). The toll schematic design plans will be submitted to CTRMA for approval prior to development of PS&E documents.

#### 4.3.1.1. Toll Systems/Facilities Schematic Design

- (a) Locate toll systems / facilities on Schematic Design plans.
- (b) Include in the Schematic Design (in reference to toll systems):
  - Plan view (Structural, Large Signs, Striping)
  - Elevations
  - General Sections
- (c) Analysis of:
  - Toll Operations
  - Mechanical and Electrical Operations
  - Provisions for local utilities
  - Facilities for surveillance, communication and control
- (d) Layouts for overhead sign bridges
- (e) Outline Specifications
- (f) Statement of Probable Construction Cost

#### 4.3.2. Toll System/Facilities PS&E Design

- 4.3.2.1. Based on the approved Schematic Design drawings and documents, the GEC will prepare the PS&E Documents. These documents will set forth in detail the requirements for construction of the toll collection systems portion of the Project. The PS&E Documents shall establish in detail the quality level of materials and systems for the toll collection systems / facilities and will include:
  - (a) Plans
  - (b) Elevations
  - (c) Sections
  - (d) Details
  - (e) General Conditions
  - (f) Technical Specifications
  - (g) Updated Statement of Probable Construction Cost
- 4.3.2.2. Final Review Documents will be submitted to CTRMA or its designated representative. Based on the review, the Final PS&E Documents will be finalized and submitted for bidding purposes.
- 4.3.2.3. Signings and Pavement Markings. Generally, the GEC work consists of corridor operational signing and collection system for the corridor and localized pavement markings around the ramp areas. For this Work Authorization it is

assumed that all major roadway directional guide signs and pavement markings will be included in the section engineer's plans. Signs in this work authorization will include those associated with toll systems operation only. The signing and pavement marking design effort is more specifically defined as follows:

(a) Signing

- For this work authorization it is assumed that the section engineers will provide all large sign layout sheets. Sheets will show location of proposed guide signs as required for the project. If additional large signs are required for toll operation purposes, they will be developed by the section engineer and included in their construction documents.
- For this work authorization it is assumed that the section engineers will provide all Overhead Sign Bridges (OSB's) required for the project. If additional OSB's are required for toll operation purposes, they will be developed by the section engineer and included in their construction documents.
- For this work authorization it is assumed that the section engineers will provide all large sign panel detail sheets as required for the project. If additional panels are required for toll operation purposes, they will be developed by the section engineer and included in their construction documents.
- The GEC will prepare Small Sign Layout Sheets showing proposed small signs required for tolling operation.
- The GEC will prepare miscellaneous sign details as required.
- The GEC will provide all required signing standards.
- The GEC will calculate signing quantities and will coordinate with the section engineer.
- CTRMA or their representative will provide any special architectural standards or details required for the signing plans. Development of these special details is not considered part of this scope of work.

(b) Pavement Markings

- For this work authorization it is assumed that the section engineers will provide pavement marking sheets. The GEC will prepare pavement marking and delineation layouts for the ramp areas and will coordinate with the section engineer. Layout will show the proposed markings, delineators and object markers.
- The GEC will provide required pavement marking standards.
- The GEC will calculate pavement marking quantities and will coordinate with the section engineer.

4.3.2.4. Surveillance, Communication and Control

- (a) Development of Surveillance, Communication and Control plans, details and estimates is not included in this scope of work. However, conduits for SC&C facilities provided by others will be included as directed by CTRMA.

## 4.3.2.5. Electrical Design

- (a) The GEC will provide electrical design efforts related for the toll collection systems aspects of the Project.
- (b) The GEC will provide required electrical standards.
- (c) The GEC will provide necessary drawings and specifications to adequately describe the Electrical Design for the toll collection systems portion of the Project.

## 4.3.2.6. Utility Design

- (a) The GEC will provide a preliminary report on utility requirements at the toll gantry locations.
- (b) For this work authorization it is assumed that the section engineer will provide utility information as electronic files. Review toll plaza design features with the section engineer's existing utility and relocation plans to identify potential conflicts with proposed toll plaza improvements. Coordinate mitigation of any identified conflicts with the section engineer and the Utility Companies.
- (c) The GEC will determine availability of utilities locally and regionally at the OSBs.
- (d) The GEC will develop utility plan for regional and onsite service.
- (e) Utility relocation plans are not included in this scope of work. Any utility relocation plans in the project area are assume to be the responsibility of the Section Engineer for that section.

## 4.3.2.7. Miscellaneous

- (a) The GEC will prepare general notes for the construction documents.
- (b) The GEC will prepare list of governing specifications, special specifications and special provisions.
- (c) The GEC will provide Quality Control/Quality Assurance for toll design and plan production activities.

**Deliverables**

Deliverables will consist of the following:

- Schematic Design Review Submittal - eight (8) paper copies
- PS&E Review Submittal - eight (8) paper copies
- PS&E Submittal - one (1) mylar original and two (2) CD-ROM copies of the Plans, Specifications and Estimates and all related contract documents.

**TASK 5: O'CONNOR BOULEVARD/SH 45 INTERCHANGE SCHEMATIC****5.1 Project Development Support**

The Consultant will provide support to the CTRMA as required during the Project Development process. Specific efforts will include:

- 5.1.1. **TIFIA Loan Application:** Assist the CTRMA in the development of the TIFIA loan application for the Project as requested. This will include preparation of various elements of the TIFIA loan form & associated documentation; it will also include participation in the coordination efforts as requested by the CTRMA.
- 5.1.2. **GEC Engineering and Technical Support:** Provide various engineering and technical tasks as requested by CTRMA including but not limited to: reports and research, presentations, and meetings.
- 5.1.3. **Interagency Coordination:** Provide appropriate staff as part of the coordination efforts between the CTRMA and other Agencies. GEC will provide coordination efforts on the CTRMA's behalf at the direction of the CTRMA.
- 5.1.4. **Traffic and Revenue (T&R) Consultant Coordination:** Provide continued coordination and support to the CTRMA T&R Consultant, as directed by the CTRMA.
- 5.1.5. **Provide Project Cost Estimate, Schedule, update financial feasibility calculations & provide Official Statement (OS) support:** Perform updates to preliminary cost estimate, schedule, and financial analysis necessitated by the ongoing project scoping / sizing process. Develop and certify the Engineers Report for OS. Review and comment on the OS as requested by CTRMA.
- 5.1.6. **Provide DBE Outreach and Public Involvement support** as requested by CTRMA.

**5.2 Route And Design Studies**

- 5.2.1. **Develop Roadway Design Criteria:** Prepare a Design Summary Report (DSR) that will serve as the living document for the project. Develop the roadway design criteria utilizing TxDOT design principles and practices. Fill in the TxDOT Form 1002 that will serve as the design criteria for the project.
- 5.2.2. **Preliminary Cost Estimate:** Develop a preliminary cost estimate (one estimate during schematic development) utilizing the approved roadway design criteria and the Average Low Bid Unit Prices for Construction located on the TxDOT website.
- 5.2.3. **Design Schematic**  
Develop a design schematic utilizing the approved roadway design criteria to be utilized for obtaining the environmental clearance.

The schematic layouts will include the basic information necessary for the proper review and evaluation of the proposed improvement (per TxDOT Design Manual, Section 3):

- General project information including project limits, design speed, and functional classification.
- The location of interchanges, mainlanes, grade separations, frontage roads, turnarounds, and ramps.
- Existing and proposed profiles and horizontal alignments of mainlanes, ramps, and crossroads at proposed interchanges or grade separations. Frontage road alignment data need not be shown on the schematic; however, it should be developed in sufficient detail to determine right of way needs.
- Location and text of the proposed mainlane guide signs should be shown. Lane lines and/or arrows indicating the number of lanes should be shown.
- An explanation of the sequence and methods of stage construction including initial and ultimate proposed treatment of crossovers and ramps.
- Tentative right of way limits.
- Bridges and bridge class culverts.
- The geometrics (pavement cross slope, superelevation, lane and shoulder widths, slope ratio for fills and cuts) of the typical sections of proposed highway mainlanes, ramps, frontage roads, and cross roads.
- Location of retaining walls.
- The existing and proposed traffic volumes and, as applicable, turning movement volumes.
- Existing and proposed control of access lines.
- Direction of traffic flow on all roadways.
- The geometrics of speed change and auxiliary lanes.
- Design speed.
- Existing roadways and structures to be closed or removed.
- Location of toll facilities.

#### 5.2.4. Geotechnical Investigations

##### 5.2.4.1. Soil Core Hole Drilling

Explore the subsurface conditions at the bridges, MSE walls and pavements in general accordance with TxDOT design guidelines. The explorations will be planned using existing data that may be available through TxDOT, published geologic maps and soil surveys and visual observations in the field in order to most efficiently perform the subsurface investigation.

The Engineer anticipates supporting the bridges on drilled shafts founded in rock. Drill and core to a minimum of 10 feet below the anticipated shaft tip elevation to confirm the presence and strength of the rock and to evaluate the rock for anomalies that may affect the foundations. Drill twelve (12) borings at the bridges, with one boring at each bridge bent and abutment location, to depths of approximately 30 feet below ground surface. Drill six (6) embankment/MSE wall borings, each to refusal on bedrock.



Coordinate with TxDOT to obtain site access and permits for the subsurface investigation. Contact One Call for utility clearance prior to performing the geotechnical investigation.

Utilize a truck-mounted drill rig equipped to sample using push-tubes, Texas Cone, Standard Penetration Test (SPT) samplers, and rock coring. The information obtained from the borings will be used to evaluate subsurface conditions within the depth of foundation influence. Observations for groundwater will be made while sampling prior to the introduction of drilling fluids, which are necessary once coring begins. No other groundwater monitoring is included in this scope of work.

#### 5.2.4.2. Laboratory Testing

The testing may include but is not limited to the tests listed below.

- Atterberg Limits (liquid limit, plastic limit, and plasticity index)
- Percent Passing the #200 Mesh Sieve
- Unified Soil Classifications
- Unit Weight and Moisture Content
- Unconfined Compression
- Soil Corrosivity

#### 5.2.4.3. Engineering Analyses and Foundation Report

Conduct geotechnical engineering evaluations and prepare a Geotechnical Design Report for the structures. This report will provide the information necessary for design of the bridge foundations, MSE walls, and embankments.

The investigations and subsequent testing will be performed in accordance with Technical Provision 14 and the TxDOT Geotechnical Design Manual. Designs will be based upon TxDOT methods (Texas Cone Penetrometer, WinCore) and verified using FHWA practice for design of drilled shafts and foundations. MSE walls will be evaluated using the FHWA procedures for evaluating for external conditions (the internal design will be provided by others); evaluations will include sliding, bearing capacity, overturning, differential settlement, and global stability.

The following information will be included in the foundation report:

- Existing facilities and proposed improvements
- Site conditions
- Field investigation and geotechnical testing
- Geotechnical conditions, including site geology, faulting and seismicity, subsurface conditions, and groundwater conditions
- Soil corrosivity
- Geotechnical analysis and design, including recommended subsurface parameters for design for use in the structural analyses of the bridges and MSE walls
- Discussion of the recommended structure foundation type

- Drilled shaft data tables: axial, uplift, and lateral capacity; and lateral calculation output for use in structural design using service load methods
- Global stability evaluations for MSE walls and geotechnical recommendations for the internal wall design (to be used by the wall design firm)
- Necessary foundation improvements, including earthwork recommendations
- Construction considerations
- Appendices will include the soil boring/rock coring logs, laboratory test results, a graphical subsurface profile, and our lateral drilled shaft analyses results (from LPile), and WinCore data

### 5.2.5. Field Surveying

#### 5.2.5.1. Control

Utilize the existing TxDOT Survey Control Network NAD-83/93 (HARN) NAVD 88 datum, Texas State Plane Coordinate System, Texas Central Zone. A Global Positioning System (GPS) and conventional land surveying methods will be used to establish additional project control if needed. These methods will also be used to perform the various tasks of this project.

#### 5.2.5.2. Record of Right of Way

Obtain the record right-of-way (ROW) strip maps for O'Connor Boulevard, McNeil Road, and SH 45 from TxDOT and/or Williamson County. Field locate minimal ROW monumentation within the project area. Plot the record ROW lines in the project area and use minimal monument field locations to place the record lines in the working drawing relative to the design survey. This is not a ROW survey and is record location only. Establish the record centerline alignment of SH 45 based on the record right-of-way (ROW) strip maps for SH 45 and minimal ROW monumentation.

#### 5.2.5.3. Right of Way Map

A right-of-way (ROW) map, parcel plats and field notes will be prepared and furnished. These documents will be revised as required due to changes in highway design, ownership changes, revised parcel numbering, or other circumstance which might be reasonably expected to occur during the project. The ROW map must depict all improvements affecting ROW. Project base line is to be drawn and stationing on the ROW map. All plats, maps and field notes must be signed, dated and sealed by a Registered Professional Land Surveyor. Conduct an on-the-ground survey of all affected ROW parcels, identifying found monuments and establishing new monuments as required. It is estimated that up to four parcels may be affected by the project. Assist CTRMA to obtain approval of ROW Maps by TxDOT.

#### 5.2.5.4. Engineering Design Survey

Perform cross sections of the SH 45 right-of-way (ROW) extending approximately 6000 feet east and 3000 feet west of the intersection with O'Connor Boulevard. Perform cross sections of the O'Connor Boulevard right-of-way (ROW) from its intersection with the SH 45 frontage road to approximately 2000 feet north of that intersection. Perform cross sections of the McNeil Road right-of-way (ROW) from its intersection with the SH 45 frontage road to approximately 1000 feet north of that intersection. The cross sections will be obtained at 50-foot stations and major grade-breaks. All improvements, signs, pavement striping and visible utilities will be located. All 8-inch and larger trees will be located. (Data will not be collected within the travel lanes of SH 45) Utilizing MicroStation and Geo-Pak digital terrain modeling program, a one-foot contour interval map and digital terrain model will be prepared for the project area.

#### 5.2.5.5. Soil Boring Staking

Upon completion of the soil borings, field tie to establish horizontal and vertical project control, the x and y coordinates as well as the z elevation of the soil boring location. Stake approximately 18 borings and locate after boring are complete.

#### 5.2.5.6. Control Location Maps

Prepare control location map plan sheets depicting all project survey control points. These location maps should tie the control point, by distance, to a minimum of three known topographic features and identify the control point x, y, elevation, name and or number. The plan sheets shall also contain the descriptions and all pertinent information regarding bench marks for the project.

### **Deliverables**

Deliverables will consist of the following:

- Electronic copy of the Design Summary Report (DSR) & Form 1002.
- Five (5) roll plots and an electronic copy of the Design Schematic.
- Five (5) bound copies of the Geotechnical Design Report.
- One original and one copy of the Right-of-way (ROW) map, parcel plats and field notes

### **5.3 Environmental Re-evaluation**

The work to be performed by the GEC shall consist of providing a re-evaluation, including public involvement, of the Final Environmental Impact Statement (FEIS) of the SH45 Toll Road Project from RM 620 to approximately three miles north of the City of Leander.

The re-evaluation will focus on design changes including the construction of a partial interchange, including the addition of ramp connections to the SH45 mainlanes.

**Assumptions**

- The projected average daily traffic (ADT) of SH45 is less than 140,000, therefore a qualitative MSAT analysis will be prepared for the re-evaluation.
- The GEC will base the re-evaluation on the best information available at the time this work authorization is executed. Incorporation of better information will be considered out of scope.
- This scope assumes no design changes and no revisions to traffic data after the execution date. Should changes be made that would result in the need for additional analysis and/or revisions to the document, any related effort would be considered out of scope.

**5.3.1. Right-of-Entry**

The GEC will coordinate obtaining right-of-entry for properties not previously assessed or where right-of-way has not been acquired.

**5.3.2. Data Collection**

The GEC will review the FEIS and any previous re-evaluations for 183A for the history of the Project, consistency with purpose and need, and design changes. The GEC will also perform data collection and site reconnaissance visits within the existing and proposed ROW, upon notice to proceed and receipt of right-of-entry, to supplement data needed to complete the re-evaluation. The GEC will obtain or update periodically publicly available information and perform site investigation including:

- Locations of public buildings, schools, churches, parks, etc.
- Historic-age structures
- Aerial/Infrared photography, if available.
- National Wetland Inventory Maps.
- Site Review for presence of non-inventoried wetlands.
- County Soil Survey Maps.
- TCEQ & EPA Hazardous Materials Database Information.
- FEMA 100-year floodplains.
- Vegetation Information.
- Threatened and Endangered Species Information.
- Noise Receiver Locations.

**5.3.3. Preparation of Environmental Document**

The GEC shall prepare environmental documentation of the level required by proposed improvements, utilizing the appropriate outline in accordance with; TxDOT's Environmental Manual, Title 23, Parts 771 and 772, FHWA's Technical Advisory T6640.8A, and TxDOT's 1996 Noise Guidelines and 1999 Air Quality Guidelines.

The GEC will include in the document a discussion of the history of the project, the purpose and need, and a description of design changes being assessed. The document will also include an

existing environment discussion, direct effects discussion, and indirect, and cumulative impacts analysis as described below.

#### 5.3.4. Existing Environment

Through data collection and field investigation, the GEC will update the description of the affected environment to serve as the basis for determining the environmental consequences of the proposed 183A/CR 274 interchange. This description will include land use, socio-economics (including identification of minority, low income, and limited English proficient (LEP) populations), farmlands, soils, noise, air quality, surface water, groundwater, wetlands, vegetation, wildlife habitat, threatened and endangered species, cultural resources, Section 4(f) properties, and hazardous materials sites.

#### 5.3.5. Archeological Survey

For anticipated new right-of-way, the GEC will perform an archeological survey including shovel tests in accordance with the Texas State Minimum Archeological Survey Standards (TSMASS) for archeological surveys. The following items are included in the archeological survey:

##### *Archival Research*

- The GEC will conduct archival research at the Texas Historical Commission (THC), the Texas Archeological Research Laboratory (TARL), and General Land Office (GLO), the National Park Service's online National Register Information System (NRIS), and /or other relevant archives for information on previous cultural resource investigations conducted in the vicinity of the project's APE and previously recorded cultural resource sites and historic properties in and near the project's APE.

##### *Intensive Pedestrian Survey*

- The GEC will obtain a Texas Antiquities Permit prior to initiating field activities.
- The GEC will perform an intensive pedestrian survey including walkover and surface inspection as well as shovel testing of the project's APE at a level of intensity sufficient to meet or exceed the TSMASS and guidelines established by the Council of Texas Archeologists.
- The GEC will document any cultural resources encountered to a sufficient degree to make preliminary determinations of the significance of the resources in terms of their eligibility for inclusion in the National Register of Historic Places and for designation as State Archeological Landmarks.
- The GEC will inspect the locales of any previously recorded archeological sites within the APE and assess their current condition.
- The GEC will submit State of Texas Archeological Site Data Forms (for new archeological sites) or update forms (for previously recorded sites) to TARL.

##### *Reporting*

- The GEC will prepare a report suitable for review by TxDOT and the THC under Section 106 of the National Historic Preservation Act and the Antiquities Code of Texas. The report will include descriptions of the APE and regulatory background

against which archeological investigations were conducted, the environmental and cultural settings of the project are, the results of archival research and the archeological survey, and any archeological resources recorded during the survey.

- A non-collection policy will be employed to the maximum extent practicable.

### 5.3.6. Historic Resources Survey

As part of the re-evaluation of the existing environment, the GEC will update the historic sites listings for the re-evaluation. The GEC will conduct surveys, research and documentation of historic buildings, structures, and objects within the Area of Potential Effect (APE) for proposed right of way that was not previously surveyed. The historic structures survey will follow the Secretary of the Interior's Standards and Guidelines for Archeology and Historic Preservation and will include:

- Field inspection
- Documentation of the survey results;
  - For buildings and other structures, objects and districts, the documentation will include the following for the area of survey, within the APE on either side of the right of way of the proposed 183A Turnpike frontage roads, for any property over 45 years old:
    - A map showing the location of the property in relation to the proposed project area
    - Date of construction
    - Clear photographic prints, including at least one front elevation and one oblique view of each property surveyed, and area or streetscape views in potential districts
    - Research on historical associations
  - Identification of cultural resources that may be eligible for listing or are listed in the National Register of Historic Places, including historic and prehistoric archeological sites, buildings and other structures, objects, districts, traditional cultural properties, and cultural or historic landscapes located during the survey
  - Recommendations regarding National Register eligibility of identified cultural resources
  - Recommendations and descriptions on findings of potential effect
  - Project effects on potentially eligible historic resources

### 5.3.7. Direct Effects

With the information compiled on the affected environment and design and traffic data, the GEC will determine the environmental consequences, or direct effects, of the proposed design changes. The direct effects will be determined on the resource categories analyzed for the Affected Environment. The direct effects will include a qualitative MSAT analysis based upon traffic projections being below the quantitative MSAT criteria threshold of 140,000 ADT. The qualitative analysis will be based upon the FHWA *Interim Guidance on Air Toxic Analysis in NEPA Documents*, February 3, 2006.

### 5.3.8. Indirect and Cumulative Impacts (ICI) Analysis

The GEC will conduct an ICI analysis consistent with the eight-step approach in TxDOT's *Interim Guidance on Preparing Cumulative Impact Analyses*, dated March 2006. The ICI analysis will focus on impacts from the design changes. The GEC will review changes attributable to past roadway improvements in the area in order to project indirect effects of the proposed improvements in the re-evaluation. The *National Cooperative Highway Research Program Report 466 (NCHRP 466)* will be used as guidance in this analysis.

### 5.3.9. Public Involvement

- 5.3.9.1. Open House: The GEC will prepare and present one (1) open house in support of the re-evaluation. The GEC will attend the open house for the purpose of providing informational materials regarding the re-evaluation, and for gathering comments from the community-at-large, and addressing local concerns regarding the project. The GEC will secure the sites for the open house. Site locations will be submitted to the Authority for approval prior to booking the rooms. Additionally, the GEC will make arrangements for a court reporter to be present at the open house.
- 5.3.9.2. Open House Facilitation: The GEC will prepare and mail meeting notices to identified stakeholders in the database, and develop and publish one (1) legal notice in two newspapers in preparation for the open house. The notices will be placed in previously identified local paper(s) 30 days and 10 days before the open house. Additionally, the GEC will prepare an agenda, project overview, location map, comment cards (up to 500), indoor/outdoor signage, sign-in sheets, exhibit boards (up to 2), and up to four (one page, double-sided) handouts for public use. All project boards and materials will be printed in English. An Open House Summary Report will be prepared after the open house to record public comment. Project communication materials will be approved by the CTRMA before use.
- 5.3.9.3. Open House Staffing: The GEC will provide a project manager, two (2) technical staff members and two (2) support staff members to attend the Public Meeting for the purpose of providing informational materials regarding the project, addressing local concerns, staffing the sign-in table and providing meeting management.

### Exclusions

The following tasks are specifically excluded from the preparation of environmental documents and not included in this work authorization, and would be scoped and detailed at a later date, as necessary:

- Endangered species coordination and/or surveys;
- Biological Assessments;
- USACE 404 delineations and permit coordination;

- Historic/Archeological coordination involving National Register Testing and/or Data Recovery-level excavation or mitigation or Section 106 Coordination except as specifically noted and included above;
- Preparation and coordination for Section 4(f) or Section 6(f) approval;
- Hazardous materials Phase II Environmental Site Assessment;
- Additional documentation services requested as a result of a change in environmental regulations or TxDOT/FHWA documentation standards from those in practice and acceptable at the time of approval of this Work Authorization;
- Work associated with outfalls outside the project ROW after the notice to proceed is received;
- Coordination with TCEQ.

### **Deliverables**

The GEC will prepare a draft re-evaluation for review by TxDOT-ENV (10 copies will be provided). Upon receipt of comments from TxDOT-ENV, the GEC will prepare a second draft for submittal to FHWA (10 copies will be provided). A third and final draft will be prepared to address comments received as a result of FHWA review (20 copies will be provided to TxDOT-ENV and FHWA). An updated re-evaluation will be prepared following the Open House, if determined necessary based on public comment. Should a post-meeting update be necessary, the GEC will respond to one set of review comments.

Deliverables will consist of the following:

- Twenty (20) draft copies, twenty (20) final copies of the re-evaluation document
- 5 copies of the Archeological Report
- 5 copies of the Historic Resources Report
- One (1) Open House
- One (1) Court Reporter
- One (1) Open House transcript
- One (1) legal notice
- One (1) Open House agenda
- Up to five hundred (500) Comment Cards for the Open House
- Up to two (2) exhibit boards for the Open House
- One (1) Handout for the Open House
- One (1) Open House notice/letter for mail out, multiple copies as required
- One (1) electronic and one (1) hard copy of the Open House Summary Report

## **TASK 6: US290E, US183S, SH71E, US290W, SH71W, SH45SW PROJECT DEVELOPMENT**

### **6.1 290E & US290W Design Consultant Procurement**

#### **6.1.1. Procurement Management & Administration**

The GEC will provide support for the acquisition by the CTRMA of professional services as defined in Section 2254.001 of the Texas Government Code, or any successor statute



thereto, relative to the acquisition of architecture, professional engineering, and land surveying. With respect to assistance for securing professional design services, these support activities will consist of the following specific tasks:

- 6.1.1.1. Participate in the management and administration of the subject procurements. This will include participation in Evaluation Committee meetings during the procurement process. PBS&J will also be responsible preparations necessary to effectively facilitate the meetings and follow-up activities that result from the meetings.
- 6.1.1.2. Develop a schedule which will define the entire procurement process.
- 6.1.1.3. Prepare correspondence (letters, email, memos, etc.) necessitated by the subject procurement process, as required.

#### **6.1.2. Notice of Issuance (NOI)**

The GEC will develop the NOI which will inform potentially interested design consultants of the subject procurement. Included with this task will be participation in NOI reviews & incorporation of modifications.

#### **6.1.3. Request for Qualifications (RFQ)**

The GEC will develop the RFQ to solicit responses from design consultants who are interested in competing in the subject procurement. Included with this task will be the following efforts:

- 6.1.3.1. Participation in RFQ reviews & incorporation of modifications.
- 6.1.3.2. Preparation of a Reference Document DVD for distribution with the RFQ.
- 6.1.3.3. Preparation of addenda documents, as required.
- 6.1.3.4. Preparation of responses to questions related to the RFQ and procurement process, as required.

#### **6.1.4. Pre-Proposal Conference**

- 6.1.4.1. The GEC will develop documents required to effectively facilitate a Pre-Proposal Conference for the subject procurement. Included with this task will be the following efforts:
  - (a) Development of a PowerPoint presentation.
  - (b) Development of a "talking points" document to be used during the presentation.
  - (c) Development of miscellaneous documents (agenda, sign-in sheets, handouts, etc.) required for the conference.
- 6.1.4.2. Participate in the Pre-Proposal Conference. It is anticipated that this will include staff participation in the actual presentation, conference set-up and clean-up, and sign-in table.
- 6.1.4.3. Complete all follow-up activities resulting from the Pre-Proposal Conference, including the preparation of all meeting material for inclusion on the CTRMA website.

**6.1.5. RFQ Response Evaluations**

- 6.1.5.1. Develop draft evaluation criteria for the review and consideration of the Evaluation Committee. Specific evaluation criteria will be developed for each Segment. Included with this task will be participation in NOI reviews & incorporation of modifications.
- 6.1.5.2. Upon the acceptance of the evaluation criteria by the Evaluation Committee, PBS&J will develop an Evaluation Document containing guidelines and forms to be used during this portion of the procurement.
- 6.1.5.3. Upon receipt of Responses to the RFQ, PBS&J will assist in the processing of the documents. This will include logging and organizing the Responses for distribution to the Evaluation Committee. cursory reviews of the Responses will also be included to determine consistency with the RFQ requirements.
- 6.1.5.4. Participate in the evaluation of Responses to the RFQ as part of the Evaluation Committee.
- 6.1.5.5. Complete reference checks for each of the proposing entities submitting a Response to the RFQ. This effort will include the development of a standard email questionnaire, distribution of the email questionnaire, and review/documentation of replies.

**6.1.6. Interviews**

- 6.1.6.1. Develop an Interview Guidelines document which will provide guidance to the Design Consultants selected to partake in this portion of the procurement. Included with this task will be participation in Interview Guidelines reviews & incorporation of modifications.
- 6.1.6.2. Assist in the development of Interview Questions to be asked of the Design Consultants selected to partake in this portion of the procurement.
- 6.1.6.3. Develop draft interview evaluation criteria for the review and consideration of the Evaluation Committee. Included with this task will be participation in interview evaluation criteria, reviews, & Incorporation of modifications.
- 6.1.6.4. Upon the acceptance of the interview evaluation criteria by the Evaluation Committee, PBS&J will develop an Interview Evaluation Document containing guidelines and forms to be used during this portion of the procurement.
- 6.1.6.5. Participate in the Interviews as part of the Evaluation Committee.

**6.1.7. Draft Design Consultant Scope & Fee Development**

- 6.1.7.1. Prepare draft versions of segment specific Scope of Services documents for distribution to the selected Design Consultants during the initial negotiations meeting. The intent of these documents is to provide the selected Design Consultants with a scope which contains the CTRMA's expectations and understanding of the project work effort. These documents will also serve as the starting point to initiate scope negotiations.
- 6.1.7.2. Prepare draft versions of segment specific Fee Estimates for the CTRMA's use. The intent of these documents is to provide the CTRMA a established

fee range which can be used for comparison during fee negotiations with the selected Design Consultants.

#### **6.1.8. Scope & Fee Negotiation Support**

- 6.1.8.1. Assist in the review of scope & fee estimate submittals by the selected Design Consultants.
- 6.1.8.2. Assist in the development of correspondence which will document the results of the scope & fee estimate reviews.
- 6.1.8.3. Support the CTRMA in meetings with the selected Design Consultants as the parties finalize scope & fee negotiations.

### **6.2 Corridor Management And Program Support**

#### **6.2.1. Program Management**

- 6.2.1.1. Project Management
  - (a) Provide staff to manage the daily activities of the program.
  - (b) Serve as the primary contact between CTRMA, TxDOT, design consultants, third party consultants, utility companies, public agencies, and the general public.
- 6.2.1.2. CTRMA Program Manual
  - (a) Develop a CTRMA Program Manual that outlines the program organization; roles & responsibilities, communication protocol, program process and procedures throughout the entire program team. The program team includes.
  - (b) Maintain the CTRMA Program Manual as a living document by the addition, modification, or deletion of provisions as necessary and will issue revisions as the program progresses.
- 6.2.1.3. Project Management Plan (PMP)

The GEC will develop corridor specific PMP's in accordance with FHWA published Guidance Documents that outlines the project organization and communication protocol throughout the entire project team. The CTRMA Program Manual will be utilized as the foundation document for this effort, with modifications incorporated to make it a corridor specific PMP.
- 6.2.1.4. Document Controls
  - (a) Develop and implement a document controls plan to be provided to the Program Team.
  - (b) Maintain project files for the length of the project.
  - (c) Transfer program and project files to CTRMA upon completion of the work or as directed by the CTRMA.

**6.2.2. Program Reporting**

- 6.2.2.1. Prepare and issue monthly status reports on segment designs, environmental clearance, ROW acquisition, and utility relocation progress and document any issues and delays encountered.
- 6.2.2.2. Provide a monthly update to CTRMA on key tasks accomplished during the preceding month, meetings and key activities for the upcoming month, and identify outstanding issues requiring resolution.
- 6.2.2.3. Provide Project Administrative support staff to track, monitor, and report on contracts and budgets for PBS&J, sub consultants, and Segment Designers including sub consultants.
- 6.2.2.4. Provide Project Administrative support staff to track, monitor, and prepare reports on DBE/HUB utilization by Prime and Segment Designers, and DBE/HUB programs for other program contracts including construction contracts.
- 6.2.2.5. Prepare a Quarterly Report with an Executive Summary that provides a comprehensive summary of the monthly reports and the overall program progress.

**6.2.3. Program Scheduling**

- 6.2.3.1. Prepare and maintain a Master Program Schedule (Primavera format) that will show critical milestones for the performance and coordination of services. The following major tasks will be included:
  - (a) Program Management Tasks
  - (b) Design Tasks
  - (c) Right-of-way Acquisition and Coordination
  - (d) Utility Coordination, Development of Agreements, and Adjustments, as applicable.
  - (e) Environmental Document(s), supplemental agreements, addendums, reevaluations, and permitting.
  - (f) Environmental studies and tasks associated with right-of-way clearance.
  - (g) Public Involvement, Meetings, Hearings, and Communications
  - (h) Master construction time schedules for each project segment including disincentives and incentives.
- 6.2.3.2. Monitor, evaluate, and validate all schedules produced by others (Segment Designers, Utility Companies, etc.) that are a subset of the Master Program Schedule.
- 6.2.3.3. Provide monthly updates of schedules at the appropriate stages of the program and shall provide an assessment of schedules provided by applicable third parties for integration into the Master Program Schedule.

**6.2.4. Segment Designers Management**

- 6.2.4.1. Coordination and Oversight of Segment Designers

- (a) Assign Corridor Managers to serve as the day-to-day contact and to provide project management coordination for the assigned Segment Designer.
- (b) Evaluate each of the progress reports and invoices for completeness and accuracy as provided by the Segment Designers with the evidence of the work accomplished during the period since the previous report.
- (c) If the progress performed is found to be adequate, provide a written response stating that the physical progress as reported by the design consultants was found to be satisfactory and make the appropriate recommendations to CTRMA.
- (d) Maintain a schedule for billing and monitor budgets established for each Segment Designer.
- (e) Provide resolution and recommendations to any contract issues and provide response to Requests for Information and Requests for Clarification received from Segment Designers as related to contract issues.
- (f) Assess requests for supplemental agreements as submitted by Segment Designers and provide written recommendations to CTRMA concerning validity of requests, proposed man-hours, and whether or not a supplemental agreement is warranted under the terms of the contract(s).
- (g) Prepare independent estimate (pre-negotiation estimate) of proposed fee for supplemental agreements as may be required.
- (h) Review supplemental agreements and contracts for spreadsheet accuracy using approved rates from the contracts prior to Segment Designer submittal to CTRMA.
- (i) Support CTRMA, as directed, in the preparation of final supplemental agreement documents for final processing.

#### 6.2.4.2. "Over The Shoulder" Review Activities

The GEC will provide continual "Over The Shoulder" reviews of the Segment Design Consultants to verify conformance to design specifications and enhance coordination between the Segment Designers.

#### 6.2.5. Project Meetings & Documentation

The GEC will facilitate the following Project Meetings to assess progress, schedule, and quality of services being provided as well as identify issues:

- 6.2.5.1. Production Meetings (Monthly)
- 6.2.5.2. Design Coordination Meetings (Bi-Weekly)
- 6.2.5.3. Environmental Coordination Meetings (Bi-Weekly)
- 6.2.5.4. ROW Coordination Meetings (Bi-Weekly)

- 6.2.5.5. Utility Coordination Meetings (Bi-Weekly)
- 6.2.5.6. Toll Facilities Design Coordination Meetings (Bi-Weekly)
- 6.2.5.7. Issue Resolution Meetings (As Needed)

The GEC will prepare Meeting Minutes and Action Items for each of the Project Meetings and distribute to attendees and appropriate personnel.

#### **6.2.6. Document Review Activities**

- 6.2.6.1. Coordinate, log, and track comments on all reviews of Segment Designer submittals including:
  - (a) Engineering Reports
  - (b) 30% Plan Submittals
  - (c) 60% Plan Submittals
  - (d) 90% Plan Submittals
  - (e) 95% Plan Submittals (Plan Review)
  - (f) 100% Plan Submittals (Design Division)
- 6.2.6.2. Review submittals for completeness and coordinate reviews by discipline area specialists and appropriate personnel as applicable.
- 6.2.6.3. Evaluate the PS&E for consistency between corridor segments.

#### **6.2.7. CTRMA Coordination Support**

The GEC will support CTRMA in coordination and any interlocal agency agreements including exhibit preparation and supporting document preparation and assembly with the following agencies:

- 6.2.7.1. Texas Department of Transportation (TxDOT)
- 6.2.7.2. Federal Highway Administration (FHWA)
- 6.2.7.3. City of Austin (COA)
- 6.2.7.4. Capital Area Metropolitan Planning Organization (CAMPO)
- 6.2.7.5. Capital Metropolitan Transportation Authority (CAPMETRO)
- 6.2.7.6. Travis County
- 6.2.7.7. Hays County
- 6.2.7.8. Local Municipalities and Municipal Utility Districts
- 6.2.7.9. Other Agencies as identified and as directed by CTRMA

### **6.3 Strategic Financing Support**

#### **6.3.1. Operations, Maintenance, and Renewal & Replacement Estimate Updates**

- 6.3.1.1. Develop operations estimates using either a Sketch Level approach (i.e., an assumed per transaction cost based on average operations costs of similar toll systems) or a Level 1 approach (i.e., estimate actual quantities for the

- various elements of the toll operations and applying anticipated unit prices to same to develop an opening year cost which can be escalated over time).
- 6.3.1.2. Develop annual/routine maintenance estimates using either a Sketch Level approach (i.e., an estimated per centerline mile cost based on the facility type which considers the number of lanes, pavement material, and location) or a Level 1 approach (i.e., estimate actual quantities for the various elements of the maintenance efforts and applying anticipated unit prices to same to develop an opening year cost which can be escalated over time).
  - 6.3.1.3. Develop renewal & replacement budget estimates (also known as periodic/non-routine maintenance estimates) using either a Sketch Level approach (i.e., an estimated per mile cost based on renewal & replacement budgets utilized on similar facilities) or a Level 1 approach (i.e., includes the identification of a long-term, periodic maintenance schedule, estimation of quantities for the associated elements, and inflated prices of same to assess the overall cost requirements of the system in the target years).

### **6.3.2. Project Cost Estimate Updates**

As directed by CTRMA, GEC will provide total project cost estimate updates for the corridors. GEC will prepare an estimate of probable construction costs which will include quantity/cost estimates for major components of work such as; roadway paving, roadway earthwork, roadway drainage, bridge structures, retaining walls, other structures, signing and marking, lighting, signalization and toll collection systems. The estimate of probable construction costs will be used to estimate total project costs that will also include preliminary engineering, final engineering, right-of-way (ROW) acquisition, environmental compliance/mitigation, construction, utility relocation and construction engineering and inspection (CEI).

### **6.3.3. Toll Feasibility Analysis Updates**

The GEC will assist CTRMA in updating toll feasibility analyses which includes the incorporation of traffic and revenue forecast updates (by others); operations, maintenance, and renewal & replacement estimates; and total project cost estimates to determine the financial feasibility of the corridors.

### **6.3.4. Financial Advisor Support/Financial Plan Development**

The GEC will provide financial advisor support necessary for the CTRMA to conduct financial programming of their system. This will include the development of cash flow analyses which contemplate implementation costs and schedules. PBS&J will also assist in the identification of priorities to support the determination of alternate program deliver scenarios. The tasks will include:

- 6.3.4.1. Develop project costs based upon alternative project approaches. Assess third party related costs for utility adjustments/relocations.
- 6.3.4.2. Assess funding sources such as state funds, federal formula funds, federal discretionary funds, and tolls.
- 6.3.4.3. Assess financing techniques such as State Infrastructure Banks, the Transportation Infrastructure Finance and Innovation Act (TIFIA),

Advanced Construction, Toll Revenue Bonds, State Cash Flow Bonds, other state bonds.

- 6.3.4.4. Develop and recommend revenue shortfall mitigation strategies to minimize impacts on scheduled project delivery and prepare a summary of significant cost increases or reductions that will affect the cost of the project.
- 6.3.4.5. Develop a Funding Contingency Plan should funding for the project as a whole not be provided and determine the impact of various design approaches on estimated project costs and project design life. PBS&J will:
  - (a) Develop a list of "reasonable" design options for consideration such as lane reductions, interchange and ramp reductions, frontage road elimination and pavement structure modifications
  - (b) Meet with CTRMA to get concurrence regarding design options prior to additional analysis.
  - (c) Analyze and document the financial implications of the various design options considered and include such things as project cost, schedule impact, local economic impact, length of useful life, and impact on financing options.

#### **6.3.5.Strategic Financing Partner Procurement Support**

The GEC will support the CTRMA as required during Strategic Financing Partner procurement. It is anticipated that GEC will provide information pertaining to the implementation cost estimates, implementation schedules, operation cost estimates, maintenance cost estimates, and renewal & replacement budget estimates. Additionally, it is anticipated that the GEC will be asked to support the CTRMA by participating in meetings between the CTRMA and shortlisted proposers.

### **6.4 Environmental Coordination**

#### **6.4.1.Document Review**

- 6.4.1.1. Review Environmental Documents and provide written comments and recommendations on such documents.
- 6.4.1.2. Confirm that work on the project conforms to the applicable requirements of TxDOT and FHWA. Sources of materials will include data received from TxDOT and other federal, state and local governmental and quasi-governmental agencies and field investigations.

#### **6.4.2.Exhibits**

The GEC will prepare updated exhibits, as necessary, including, but not limited to the following: existing and proposed typical sections, plan layout, noise and air receptor location map, wetlands inventory map, if appropriate, and hazardous sites map.



**6.4.3. Coordination**

- 6.4.3.1. Support CTRMA in coordination with TxDOT Austin District, Consultants, Resource Agencies, TxDOT's Environmental Affairs Division, and the FHWA, as required, for permitting, re-evaluations, preparation of additional environmental documents, and tracking of commitments made in environmental documents.
- 6.4.3.2. Coordinate findings and conclusions with each Segment Design consultant for appropriate inclusion in the environmental documentation of each segment.
- 6.4.3.3. Coordinate environmental commitments for consistency throughout the corridor and develop and provide an environmental commitments document.

**6.4.4. Meetings**

The GEC will document meetings held, decisions made, the process used to reach the decisions, and the final recommendations.

**6.5 Right-of-Way****6.5.1. Right-of-Way Coordination**

As directed by CTRMA, the GEC may provide right-of-way management support to assist the CTRMA with the coordination and monitoring of the various right-of-way activities. Support might include the following services:

- 6.5.1.1. Assisting the right-of-way team in the identification and prioritization of parcel acquisitions critical to the overall project schedule and the required private utility relocation activities.
- 6.5.1.2. Preparing and maintaining a detailed right-of-way acquisition schedule.
- 6.5.1.3. Coordinating with the right-of-way team to maintain a parcel status tracking system.
- 6.5.1.4. Developing right-of-way acquisition cost estimates.
- 6.5.1.5. Coordinating right-of-way production meetings with the right-of-way team including the CTRMA, acquisition service providers, TxDOT, and the utility coordination group.
- 6.5.1.6. Supporting the right-of-way team with Relocation Assistance.
- 6.5.1.7. Conducting reviews of title commitments, appraisal reports, acquisition packages, relocation plans, asbestos reports, and condemnation packages to insure compliance with policy and procedures.
- 6.5.1.8. Preparing bid packages for the demolition of structures.
- 6.5.1.9. Coordinating and monitoring the removal of asbestos, underground petroleum storage tanks, and improvements within the acquired right of way.
- 6.5.1.10. Assisting right-of-way team with ownership research and the preparation of right of entry documents.

- 6.5.1.11. As necessary and when directed by CTRMA, initiate and maintain communications with state and government officials, property owners, tenants, and the general public.
- 6.5.1.12. Preparing a monthly Right-of-Way Status and Critical Parcel Report.
- 6.5.1.13. Maintaining a composite right-of-way map with parcel status and critical parcels identified.
- 6.5.1.14. Reviewing and coordinating activities related to the preparation of parcel maps, legal descriptions, and right of way maps suitable for the acquisition of real property interests and probable issuance of a title policy.
- 6.5.1.15. Reviewing right-of-way maps, plats, property descriptions, area calculation sheets, and other acquisition documents, for accuracy.

## **6.6 Utility Coordination**

The GEC will provide technical expertise in the areas of Utility Accommodation Rules (UAR), utility coordination, utility reimbursement procedures and real property interest issues. The GEC will act as a liaison with CTRMA and Utility Owners on Utility matters.

### **6.6.1. Utility Adjustment Coordination**

- 6.6.1.1. Participate in meetings as necessary to effectively manage the utility coordination process. Activities include:
  - (a) Schedule periodic meetings with utility owner's representatives for coordination purposes.
  - (b) Attend meetings with TxDOT and other interested parties as directed.
  - (c) Meet with the CTRMA's roadway designers as necessary to resolve matters relating to schedules, utility identification, design changes and negotiation with utility owners.
- 6.6.1.2. Assist CTRMA with negotiating the details of utility agreements with the utility companies. Details will include any necessary betterment percentages, indirect costs, plans, estimates and schedules for the utility companies' activities. The GEC will also prepare draft agreements for CTRMA's use including the necessary exhibits and information concerning the Project (such as reports, plans and surveys).
- 6.6.1.3. Prepare and maintain schedules which will identify utility ownership and include milestones and operations and activities pertinent to each assigned project.

### **6.6.2. Utility Engineering**

- 6.6.2.1. Review existing utility information for conflicts with the proposed roadway and provide a utility conflict analysis.
- 6.6.2.2. Provide a conceptual utility relocation plan.

- 6.6.2.3. Review utility plans for compliance with the TxDOT Utility Accommodation Policy, compatibility with roadway features, betterment inclusion and constructability.

## 6.7 Technical Support Activities

### 6.7.1. Public Involvement and Communications Program

As approved by CTRMA, the GEC will support CTRMA with the following activities:

- 6.7.1.1. Development and production of public information materials including exhibits, brochures, pamphlets, newsletters, etc.
- 6.7.1.2. Coordination of special events and activities, which focus on design and/or CSD efforts.
- 6.7.1.3. Coordinate and facilitate meetings for the purpose of establishing two-way communication and rapport building with affected stakeholders.
- 6.7.1.4. Provide personnel to support in the NEPA public involvement process for the projects.
- 6.7.1.5. Establish and update a public website to reflect current Program activities and other general Program-related information that enhances the distribution of Program information to the general public.

### 6.7.2. Traffic Analysis for Environmental Documents

The GEC will develop toll corridor traffic forecasts and traffic operations analyses for use in environmental studies. Traffic forecasts will be developed for two future years, the expected opening date of each project (estimated time of completion, or ETC), and a horizon year 20 years after opening. Consistent with other environmental studies, traffic forecasts and traffic analyses will focus the assessment of the adequacy of the typical section of the project between each interchange, and will allocate forecasted traffic among main lanes, frontage roads, express/managed lanes, signal queue bypass ramps and/or collector distributor roads inside the project right-of-way.

Corridors included in the assessment are:

- US183 from north of Springdale Road to SH71
- SH71 from east of Montopolis Road to east of SH130
- US290 from US183 to east of FM973
- US290/SH71 from Williamson Creek to Scenic Brook Drive (including SH71 from US290 to Fletcher Lane)
- SH45SW from LP1 to FM1626

Corridor scenarios to be assessed include existing geometric conditions and the ultimate project configuration for both the ETC and 20 years after the ETC. The ultimate project scenario shall also include traffic forecasts and a level of service assessment of all lane groups under tolled and non-tolled conditions.

- 6.7.2.1. Develop Traffic Forecasts
- (a) Develop average daily traffic forecasts for segments of each project between interchanges/crossroads, for the ETC and the 20th year after the ETC using traffic forecast trends developed by TxDOT Transportation Planning & Programming (TPP) Division, and any more-recent evidence of corridor traffic growth trends including recent traffic counts, or new travel demand model forecasts from CAMPO.
  - (b) Allocate daily traffic forecast among all lane groups in the project cross section between each interchange including main lanes, frontage roads, collector-distributor roads, etc. under non-tolled conditions for ETC and ETC+20 year forecasts.
  - (c) Develop a separate re-allocation of daily traffic forecasts among lane groups assuming the tolled configuration for the project for ETC and ETC+20 year forecasts.
  - (d) Compute design hour volumes for all geometric scenarios, project segments, lane groups, forecast years, and tolling configurations for traffic capacity analyses using TPP traffic factors.
- 6.7.2.2. Conduct Traffic Capacity Analyses
- (a) Estimate the section capacity of each lane group, and compute the volume to capacity ratio of each project segment and lane group.
  - (b) Determine level of service under peak conditions for all geometric scenarios, project segments, lane groups, forecast year and tolling configuration.
  - (c) Compile traffic forecasts in schematic graphical form for use in conducting project-level air quality and noise analyses, and for documentation of transportation benefits in the environmental document.
- 6.7.2.3. Update CORSIM Models
- (a) Update traffic forecast and turning movement traffic numbers for SH 71 from Montopolis to SH 130
  - (b) Update CORSIM model to proposed corridor scenario and then adjust model, as needed, for minor design revisions
  - (c) Develop Technical Memo\Powerpoint report outlining summary of analysis and recommendation for operational improvements
- 6.7.2.4. Documentation and Meetings
- (a) Develop technical memorandum documenting analysis procedure applied in development of project traffic forecasts and traffic capacity analysis.
  - (b) Develop an executive summary of analysis procedures for inclusion in the environmental document, including a suitable graphical/pictorial depiction of the concept of level of service.

- (c) Attend meetings with TxDOT District staff to obtain relevant data, discuss refinements to analysis process and procedures, exchange comments on documentation and/or present results of the forecasts and analyses.

### **6.7.3. Miscellaneous Technical Support**

The GEC will provide various engineering and technical services as requested by CTRMA.

## **6.8 US290W Schematic**

### **6.8.1. Social & Environmental Studies and Public Involvement**

- 6.8.1.1. Public Meetings  
Attend preparation meetings, prepare exhibits, and provide project personnel as needed for the Public Meetings.
- 6.8.1.2. Public Hearings  
Attend preparation meetings, prepare exhibits, and provide project personnel as needed for the Public Hearings.
- 6.8.1.3. Public Workshops  
Attend preparation meetings, prepare exhibits, and provide project personnel as needed for the Public Workshops.

### **6.8.2. Route and Design Studies**

- 6.8.2.1. Design Schematics
  - (a) Collect and review available data for SH 71 West, US 290 West and adjacent areas and roadways. Perform field investigations to aid in this task.
  - (b) Develop the roadway design criteria for the project to be discussed, revised and approved at a Design Concept Conference. This set of criteria will be based on Chapter 3 of the TxDOT Roadway Design Manual. Prepare a Design Summary Report.
  - (c) Prepare calculated horizontal and vertical geometrics for the US 290 mainlines, the US 290 frontage roads, affected cross streets, and SH 71 DC's. The designs will accommodate the horizontal and vertical geometrics of the SH 71 DC's. Prepare Typical Sections for the affected roadways and generate preliminary cross sections for estimation of cut and fill quantities.
  - (d) Perform traffic operational analyses with TxDOT developed traffic volumes to uncover issues related to the William Cannon Entrance Ramp, the Convict Hill Road overpass, and the termination of the facility at the west end of the project.

- (e) Develop a large sign schematic to show the placement of large guide signs. A preliminary striping layout will be designed to accompany the large sign schematic.
- (f) Develop a Project Schematic and an Engineer's Estimate of Probable Construction Costs based on the design described above.
- (g) Establish the proposed right-of-way and easement requirements and locations required for construction of the project.
- (h) Develop a US 290 Concept Report which summarizes the Public Involvement process and results relating to the US 290 Mediation Meetings.

#### 6.8.2.2. Field Surveying

- (a) Obtain "right-of-entry" by signed letter from the owner of each of the subject properties and when necessary, will contact property owners in advance of field surveys or to address specific property owner concerns about the work to be performed or being performed.
- (b) Establish and/or recover primary and secondary control monuments as needed for supplemental surveys and perform digital and/or three wire level loop operations for secondary control monuments and temporary benchmarks used in supplemental surveys.
- (c) Perform supplemental topographic surveys to supplement the existing DTM information.

#### 6.8.2.3. Right of Way and Utility Adjustments

Update existing Right of Way data for areas not previously included in the original schematic.

#### 6.8.2.4. Project Management

Maintain project schedules, prepare monthly progress reports, develop monthly project invoices, meet with the CTRMA following each submittal, review the work produced by subconsultants, and provide a copy of the QC/QA documents for each submittal

### 6.8.3. Drainage Design

#### 6.8.3.1. Drainage Design and Analysis

- (a) Perform and document potential changes to the FIS hydrologic model along the reach defined by the limits of the project encroachment. The check will include models of both the existing and proposed conditions.
- (b) Perform Impervious Cover Calculations and Detention Estimates.
- (c) Model the US 290 W Bridge crossing of Williamson Creek and incorporate it into the updated FIS HEC-RAS hydraulic model.
- (d) Develop schematic level hydrology and hydraulics for proposed cross drainage structures and schematic layouts of the cross drainage culverts with hydrologic and hydraulic documentation.

- (e) Develop TSS load calculations and locations for BMPs required under the Edwards rules.
- (f) Review existing drainage easements and identify any additional easements required for the project.
- (g) Develop Drainage report documenting the above mentioned analyses.

#### **6.8.4. Bridge Design**

Design schematic-level structure depths and determine abutment locations for the following structures at these approximate locations:

- US 290 at Scenic Brook
- US 290 at RM 1826
- US 290 at Convict Hill
- US 290 from SH 71 to William Cannon
- US 290 at Williamson Creek
- William Cannon Entrance Ramp
- Old Bee Caves Road
- Eastbound Frontage Road at McCarty Lane

[ END OF SECTION ]

**GENERAL MEETING OF THE BOARD OF DIRECTORS  
OF THE  
CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**

**RESOLUTION NO. 08-18**

WHEREAS, the Central Texas Regional Mobility Authority ("CTRMA") was created pursuant to the request of Travis and Williamson Counties and in accordance with provisions of the Transportation Code and the petition and approval process established in 43 Tex. Admin. Code § 26.01, *et. seq.* (the "RMA Rules"); and

WHEREAS, Chapter 370 of the Texas Transportation Code authorizes regional mobility authorities to develop projects through the use of comprehensive development agreements; and

WHEREAS, the CTRMA is charged with funding and developing transportation improvements throughout the region to help solve the current mobility crisis and to improve the quality of life for residents of Central Texas; and

WHEREAS, the CTRMA, working in partnership with the Austin District of the Texas Department of Transportation ("TxDOT"), developed a proposed "CTRMA/TxDOT Regional Implementation Program" (the "Program") which provides for the funding and development of various transportation system improvements through tolling of new roadway capacity, such Program having been amended and revised from time to time by the actions of TxDOT, the Capital Area Metropolitan Planning Organization ("CAMPO") and/or the CTRMA; and

WHEREAS, various regional transportation projects included in the CAMPO 2030 Plan, TIP and/or the Program have been assigned to the CTRMA for design, development and/or operation (collectively or individually, such regional transportation projects being referred to as the "Transportation Projects"); and

WHEREAS, the CTRMA currently has a procurement for Strategic Financial Team opportunities underway (the "RFP") developed and implemented in accordance with state law and the CTRMA's Policies for Procurement of Goods and Services (the "Procurement Policy") whereby it seeks financial resources to address the short and long term needs associated with the Transportation Projects and has received proposals in response to the RFP from nine entities; and

WHEREAS, an evaluation committee comprised of CTRMA staff and financial consultants has initially evaluated all of the responses received utilizing the evaluation criteria set forth in the RFP and has developed a short list of five (5) responders to be interviewed for further evaluation; and

WHEREAS, the evaluation committee, through the Executive Director, recommends the following responders be included on a short list for interviews and further evaluation as part of the procurement process: Balfour Beatty Capital, Inc., Citigroup Global Markets, Inc., Goldman Sachs, JP Morgan, and Morgan Stanley.




NOW THEREFORE, BE IT RESOLVED, that the CTRMA Board of Directors adopts the following short list of responders to the RFP and instructs the evaluation committee to interview and continue the evaluation process with such responders: Balfour Beatty Capital, Inc., Citigroup Global Markets, Inc., Goldman Sachs, JP Morgan, and Morgan Stanley; and


BE IT FURTHER RESOLVED, that the evaluation committee shall continue to evaluate the short listed responders in accordance with the evaluation criteria set forth in the RFP and in accordance with the Procurement Policy so that a final responder may be recommended to the Board at a future Board meeting.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 26th day of March 2008.

Submitted and reviewed by:

Approved:

  
\_\_\_\_\_  
Tom Nielson  
General Counsel for the Central  
Texas Regional Mobility Authority

  
\_\_\_\_\_  
Robert E. Tesch  
Chairman, Board of Directors  
Resolution Number 08/18  
Date Passed 3/26/08

- **Proposals due March 7, 2008**
- **Received 10 responses**
  1. **Citigroup**
  2. **Balfour Beatty Capital**
  3. **Lehman Brothers**
  4. **Morgan Stanley**
  5. **UBS**
  6. **JPMorgan**
  7. **Depfa Bank**
  8. **Merrill Lynch**
  9. **Goldman Sachs**
  10. **Cintra-Zachry**
- **March 7, 2008 sent copies to all members of review committee**
  - **Ladd Pattillo**
  - **Dan Wegmiller**
  - **Mike Bartolotta**
  - **Glenn Opal**
  - **Bill Chapman**
- **Review Committee met March 14, 2008 for initial analysis**
  - **March 14-17, 2008 ---Committee recorded recommendations, summarized**
  - **March 20, 2008 —letters sent to all responders to hold April 1-3, 2008 open to meet with review committee**
- **March 26, 2008 make recommendations to Board to interview top 5 responders during April 1-3, 2008**
- **April 4-25, 2008 review committee to finalize recommendation for Board's April 30, 2008 meeting**

**GENERAL MEETING OF THE BOARD OF DIRECTORS  
OF THE  
CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**

**RESOLUTION NO. 08-19**

WHEREAS, the Central Texas Regional Mobility Authority ("CTRMA") was created pursuant to the request of Travis and Williamson Counties and in accordance with provisions of the Transportation Code and the petition and approval process established in 43 Tex. Admin. Code § 26.01, *et. seq.* (the "RMA Rules"); and

WHEREAS, Chapter 370 of the Texas Transportation Code authorizes regional mobility authorities to develop projects through the use of comprehensive development agreements; and

WHEREAS, the CTRMA is charged with funding and developing transportation improvements throughout the region to help solve the current mobility crisis and to improve the quality of life for residents of Central Texas; and

WHEREAS, the CTRMA, working in partnership with the Austin District of the Texas Department of Transportation ("TxDOT"), developed a proposed "CTRMA/TxDOT Regional Implementation Program" (the "Program") which provides for the funding and development of various transportation system improvements through tolling of new roadway capacity, such Program having been amended and revised from time to time by the actions of TxDOT, CAMPO and/or the CTRMA; and

WHEREAS, various regional transportation projects included in the CAMPO 2030 Plan, TIP and/or the Program have been assigned to the CTRMA for possible design, development and/or operation (collectively or individually, such regional transportation projects being referred to as the "Transportation Projects"); and

WHEREAS, the 80<sup>th</sup> Texas Legislature adopted Senate Bill 792 that addressed various matters related to the development of toll projects, including a process whereby TxDOT and local toll project entities such as the CTRMA develop a market valuation for proposed toll projects and grant local toll project entities primacy as to the development, construction and operation of such projects ("Market Valuation"); and

WHEREAS, in order to insure that the CTRMA may continue to undertake feasibility and development efforts associated with the Transportation Projects in a timely manner, the Texas Transportation Commission will consider issuing a Minute Order (the "Minute Order") at its March 27, 2008 meeting authorizing TxDOT and the CTRMA to negotiate and develop an agreement ("Development Agreement") for the development of the Transportation Projects prior to the completion of the Market Valuation process for those projects, including performance of engineering and other pre-construction work; and

WHEREAS, the Development Agreement is anticipated to provide that funds expended by the CTRMA in relation to the Transportation Projects are subject to reimbursement by TxDOT for any Transportation Project the CTRMA declines to develop, construct and operate after the Market Valuation process is completed for such Project; and

WHEREAS, it will be necessary for the terms and conditions of the Development Agreement to be negotiated and agreed upon by a representative of the CTRMA.


NOW THEREFORE, BE IT RESOLVED, that the Board of Directors hereby authorizes the Executive Director to negotiate and finalize the Development Agreement on the terms and conditions acceptable to the Executive Director and consistent with the provisions of the Minute Order and this Resolution; and

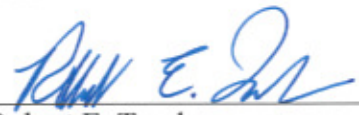
BE IT FURTHER RESOLVED, upon finalization of the Development Agreement, the Executive Director is authorized to execute the Development Agreement on behalf of the CTRMA.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 26th day of March 2008.

Submitted and reviewed by:

Approved:

  
\_\_\_\_\_  
Tom Nielson  
General Counsel for the Central  
Texas Regional Mobility Authority

  
\_\_\_\_\_  
Robert E. Tesch  
Chairman, Board of Directors  
Resolution Number 08-19  
Date Passed 3/26/08

TEXAS TRANSPORTATION COMMISSION

TRAVIS AND WILLIAMSON County

MINUTE ORDER

Page 1 of 2

AUSTIN District

The Texas Department of Transportation (department) and the Central Texas Regional Mobility Authority (CTRMA) previously developed a "CTRMA/TxDOT Regional Implementation Program" that provides for the funding and development of certain transportation system improvements within the jurisdictional limits of the CTRMA.

On October 8, 2007, the Capital Area Metropolitan Planning Organization (CAMPO) Transportation Policy Board approved amendments to CAMPO's 2030 Transportation Plan (Plan) and the FY 2008-FY 2011 Transportation Improvement Program (TIP), amending previous authorizations for the development of certain highway projects of the Texas Department of Transportation (department) that are located within the boundaries of CAMPO as toll projects.

Department projects that are part of the TIP and Plan amendments include: (1) the US 290 West/SH 71 interchange (the "Y" in Oak Hill), (2) US 183 South from Springdale to Patton, (3) SH 45 Southwest from Loop 1 to FM 1626, (4) US 290 East from east of US 183 to FM 973, (5) SH 71 East from west of Riverside to SH 130, and (6) Loop 1 northbound and southbound managed lanes from FM 794 to the Cesar Chavez interchange (candidate toll projects).

Transportation Code, §228.0111 provides that if a local toll project entity or the department determines that a project located within the boundaries of the local toll project entity should be developed, constructed, and operated as a toll project, the department and the local toll project entity shall agree on terms and conditions for the development, construction, and operation of the project and on a market valuation of the project, and the local toll project entity has the first option to develop, finance, construct, and operate the toll project under the agreed terms and conditions (market valuation process).

Transportation Code, §228.0111 contemplates that preliminary project development work and other activities necessary to implement the market valuation process and meet any conditions for the development of the project as a toll project may be carried out prior to the initiation of the market valuation process, including preliminary engineering, services related to environmentally clearing the development of the project as a toll project, and other pre-construction work, but not including the final design and construction of the project. All of the candidate toll projects are subject to the market valuation process.

In Minute Order 110053, dated April 28, 2005, the Texas Transportation Commission (commission) requested that the CTRMA take such actions or conduct such studies and evaluations as may be necessary to determine the viability of jointly developing and financing with the department all or portions of the candidate toll projects, and to present proposals identifying the relative rights and obligations of the department and the CTRMA in the planning, design, financing, construction, and operation of those projects.

Funding reductions have forced the department to stop work on the candidate toll projects. CTRMA and the department have developed an innovative plan to continue that work so that the candidate toll projects are not delayed. Under this plan, ongoing work that previously was carried out by the department would be carried out by the CTRMA, and would be funded by the CTRMA. That work would be coordinated with the department and subject to the department's review.

TEXAS TRANSPORTATION COMMISSION

TRAVIS AND WILLIAMSON County

MINUTE ORDER

Page 2 of 2

AUSTIN District

If CTRMA declines to exercise its option to develop, finance, construct, and operate a candidate toll project, the department will reimburse the CTRMA for work performed by the CTRMA, and the CTRMA will transfer all work product for which reimbursement is made to the department. No reimbursement would be required for any work related to a candidate toll project for which the CTRMA exercised its option to develop, finance, construct, and operate the project.

The development, construction, and operation of the candidate toll projects is of significant importance to mobility in the Austin metropolitan area and in the jurisdictional limits of the CTRMA. The commission recognizes that innovative financing methods, including tolls, are an effective means of maximizing the use of limited available resources, without compromising the quality of Texas' transportation system. The commission encourages the development of partnerships and the employment of innovative methods to finance and construct needed transportation improvements.

IT IS THEREFORE ORDERED by the commission that the executive director is authorized to negotiate and develop an agreement with the CTRMA for the development of toll projects included in the CAMPO FY 2008-2011 Transportation Improvement Program prior to the completion of the market valuation process for those projects, including the performance by the CTRMA of engineering and other pre-construction work up to but not including the final design of those toll projects.

IT IS FURTHER ORDERED that the executive director is directed to present the agreement to the commission for its future consideration.

Submitted and reviewed by:

Recommended by:

\_\_\_\_\_  
Director, Texas Turnpike Authority Division

\_\_\_\_\_  
Executive Director

\_\_\_\_\_  
Minute Number      Date Passed

**GENERAL MEETING OF THE BOARD OF DIRECTORS  
OF THE  
CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**

**RESOLUTION NO. 08-20**

WHEREAS, the Central Texas Regional Mobility Authority ("CTRMA") was created pursuant to the request of Travis and Williamson Counties and in accordance with provisions of the Transportation Code and the petition and approval process established in 43 Tex. Admin. Code § 26.01, *et. seq.* (the "RMA Rules"); and

WHEREAS, prudent management and fiscal oversight are overriding objectives of the CTRMA Board of Directors; and

WHEREAS, it is necessary and desirable to develop and adopt a budget for CTRMA operations at the commencement of each fiscal year and in Resolution No. 07-31, dated June 27, 2007, the Board of Directors adopted a budget for fiscal year 2007-2008 (the "Budget"); and


WHEREAS, CTRMA staff has recommended that \$75,000.00 currently budgeted under account number 69000 (Contractual Contingencies) be transferred to account number 52100 (Contractual Employees Expense) in order to provide for the efficient operation of the CTRMA as it relates to contractual employees; and

WHEREAS, this proposed budget transfer does not represent or result in any increase in expenditures by the CTRMA and is fiscally responsible and consistent with the CTRMA's dedication to full transparency of its operations.


NOW THEREFORE, BE IT RESOLVED, that the CTRMA Board of Directors approves the transfer of \$75,000.00 currently budgeted under account number 69000 (Contractual Contingencies) to account number 52100 (Contractual Employees Expense) and authorizes such transfer be reflected in the Budget and records of the CTRMA.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 26th day of March 2007.

Submitted and reviewed by:

  
\_\_\_\_\_  
Tom Nielson  
General Counsel for the Central  
Texas Regional Mobility Authority

Approved:

  
\_\_\_\_\_  
Robert E. Tesch  
Chairman, Board of Directors  
Resolution Number 08-20  
Date Passed 3/26/08

**GENERAL MEETING OF THE BOARD OF DIRECTORS  
OF THE  
CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**

**RESOLUTION NO. 08-21**

WHEREAS, the Central Texas Regional Mobility Authority ("CTRMA") is empowered to procure such goods and services as it deems necessary to assist with its operations and to study and develop potential transportation projects, and is responsible to insure accurate financial records are maintained using sound and acceptable financial practices; and

WHEREAS, close scrutiny of CTRMA expenditures for goods and services, including those related to project development, as well as close scrutiny of CTRMA's financial condition and records is the responsibility of the Board of Directors and its designees through procedures the Board may implement from time to time; and

WHEREAS, the Board of Directors has adopted policies and procedures intended to provide strong fiscal oversight and which authorize the Executive Director, working with the CTRMA's Chief Financial Officer, to review invoices, approve disbursements, and prepare and maintain accurate financial records and reports; and

WHEREAS, the Executive Director, working with the Chief Financial Officer, has reviewed and authorized the disbursements necessary for the month of February 2008 and has caused a Financial Report to be prepared which is attached hereto as Attachment "A."


NOW THEREFORE, BE IT RESOLVED, that the Board of Directors accepts the Financial Report for February 2008, attached hereto as Attachment "A."

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 26th day of March 2008.

Submitted and reviewed by:

  
\_\_\_\_\_  
Tom Nielson  
General Counsel for the Central  
Texas Regional Mobility Authority

Approved:

  
\_\_\_\_\_  
Robert E. Tesch  
Chairman, Board of Directors  
Resolution Number 08-21  
Date Passed 3/26/08



**Central Texas Regional Mobility Authority**

**Balance Sheet**

As of

**February 29, 2008**

**February 28, 2007**

**Assets**

**Current Assets**

Cash in Operating Fund		23,905.15		15,357.43
Chase-Regions Trustee Account		3,895.55		0.00
Regions Trustee cash account		0.00		0.00
Cash In TexSTAR	5,968,849.81		8,443,227.50	
Money Market Payroll Account	3,010.85		43,394.95	
Fidelity Government MMA	10,954,348.33		4,152,853.10	
Restricted Cash-TexStar	49,882,951.74		29,097,506.82	
Total Cash Equivalents		66,809,160.73		41,736,982.37
Due From TTA	434,813.55		0.00	
Due From NTTA	18,100.80		0.00	
Due From HCTRA	54,582.30		0.00	
Interest Receivable	0.00		65,735.14	
Total Receivables		507,496.65		65,735.14
Agencies		0.00		5,432,582.83
Prepaid Insurance	93,223.23		30,119.42	
Prepaid Expenses	0.00		316.63	
Total Prepaid Expenses		93,223.23		30,436.05
<b>Total Current Assets</b>		<b>67,437,681.31</b>		<b>47,281,093.82</b>

**Construction Work In Process**

Utility Relocation Expense	7,296.44		61,411.19	
Consulting-Admin Services	28,559.43		687,052.37	
Consulting-Reimbursed Expenses	5,137.68		5,703.31	
Environmental Fees	0.00		398,750.00	
Funding Costs	39,204.26		30,000.00	
Legal Fees-Construction	668,333.43		2,174,971.27	
Traffic & Revenue Analysis	1,657,685.87		2,449,353.50	
Unsuccessful Proposers	0.00		356,625.82	
Engineering	2,291,049.21		3,721,261.14	
Right of Way	68,947.30		155,178.62	
Total Preliminary Costs		4,766,213.62		10,040,307.22
Public Involvement	142,610.38		319,800.36	
CDA Oversight	0.00		6,973,635.86	
Engineering	0.00		14,082,913.49	
Total Construction Engineering		142,610.38		21,376,349.71
Design	0.00		30,212,840.43	
Construction-CDA	0.00		126,498,804.52	
Other Construction Costs	0.00		296,476.42	
Total Construction		0.00		157,008,121.37
Toll Collection System		27,220.00		6,687,854.24
Accrued Interest Income	0.00		(13,115,233.51)	
Accrued Interest Expense	0.00		23,684,774.80	
Amortization of Bond Premium	0.00		(3,168,700.70)	
Amortization Bond Disc Invest	0.00		(303,886.44)	
Total Accrued Interest		0.00		7,096,954.15
Amortization Bond Issue Costs		0.00		2,878,317.16
<b>Total Construction WIP</b>		<b>4,936,044.00</b>		<b>205,087,903.85</b>

<b>Fixed Assets</b>				
Computers	1,202,456.72		115,571.52	
Accum Deprec-Computers	<u>(364,872.91)</u>	837,583.81	<u>(85,635.11)</u>	29,936.41
Computer Software	5,342,599.91		95,156.88	
Accumulated Amortization-Software	<u>(759,422.88)</u>	4,583,177.03	<u>(30,967.16)</u>	64,189.72
Furniture and Fixtures	93,167.66		60,057.16	
Accum Deprec-Furn & Fixtures	<u>(26,679.24)</u>	66,488.42	<u>(11,030.23)</u>	49,026.93
Equipment	76,177.93		28,777.93	
Accum Depec-Equipment	<u>(26,880.54)</u>	49,297.39	<u>(10,418.22)</u>	18,359.71
Autos and Trucks	16,295.00		0.00	
Accum Deprec-Autos and Trucks	<u>(2,715.84)</u>	13,579.16	<u>0.00</u>	0.00
Buildings and Toll Facilities	7,062,332.11		0.00	
Accum Deprec-Buildings & Toll	<u>(129,673.51)</u>	6,932,658.60	<u>0.00</u>	0.00
Highways and Bridges	195,532,292.37		0.00	
Accum Deprec-Highways & Bridge	<u>(3,618,257.71)</u>	191,914,034.66	<u>0.00</u>	0.00
Communication Equipment	1,938,955.13		30,743.13	
Accum Deprec-Comm Equip	<u>(156,029.81)</u>	1,782,925.32	<u>(6,930.23)</u>	23,812.90
Toll Equipment	4,587,114.80		0.00	
Accum Deprec-Toll Equip	<u>(340,677.48)</u>	4,246,437.32	<u>0.00</u>	0.00
Signs	5,260,262.00		0.00	
Accum Deprec-Signs	<u>(98,613.18)</u>	5,161,648.82	<u>0.00</u>	0.00
Land Improvements	946,495.00		0.00	
Accum Deprec-Land Improv	<u>(30,732.75)</u>	915,762.25	<u>0.00</u>	0.00
Right of Way		22,795,124.38		
Leasehold Improvements		42,616.87		48,468.42
<b>Total Fixed Assets</b>		<b>239,341,334.03</b>		<b>233,794.09</b>
<b>Other Assets</b>				
Security Deposits		8,643.30		8,643.30
<b>Long Term Investments</b>				
GIC		0.00		54,971,815.88
<b>Other Assets</b>				
Intangible Assets		650.00		650.00
2005 Bond Issuance Costs		8,800,311.92		10,052,052.00
<b>Total Assets</b>		<b>320,524,664.56</b>		<b>317,635,952.94</b>
<b>Liabilities</b>				
<b>Current Liabilities</b>				
Accounts Payable		52,951.67		4,470,812.28
Interest Payable		1,375,774.88		1,884,554.35
TCDRS Payable		31,360.56		15,931.07
Due to State of Texas		602.82		2,831.77
Total Due to other Entities		602.82		0.00
<b>Total Current Liabilities</b>		<b>1,460,689.93</b>		<b>6,374,129.47</b>
<b>Long Term Liabilities</b>				
Accrued Vac & Sick Leave Paybl		150,835.00		0.00
Retainage Payable		1,928,833.03		8,155,265.53
BANS 2005		0.00		66,000,000.00
Senior Lien Revenue Bonds 2005		170,114,368.18		169,325,456.18
Sn Lien Rev Bnd Prem/Disc 2005		5,333,312.65		6,689,505.85
TIFIA note 2008		66,515,900.00		0.00
Total Long Term Liabilities		<b>244,043,248.86</b>		<b>250,170,227.56</b>
<b>Total Liabilities</b>		<b>245,503,938.79</b>		<b>256,544,357.03</b>

**Net Assets Section**

Contributed Capital  
Net Assets beginning

18,430,634.57  
59,639,556.31

62,604,167.57

Current Year Operations

(3,049,465.11)

(1,512,571.66)

Total Liabilities and Net Assets

**320,524,664.56**

**317,635,952.94**

**Central Texas Regional Mobility Authority**  
**Income Statement**  
**All Operating Departments**

	Budget FY 2008	Actual Year To Date 2/29/2008	Percent Of Budget	Actual Year To Date 2/28/2007
<b>Revenue</b>				
Toll Revenue-Cash-183A	1,800,000.00	1,166,710.02	64.82%	0.00
Toll Revenue-TxTag-183A	6,500,000.00	8,869,935.84	136.46%	0.00
Interest Income	1,369,790.00	3,160,614.59	230.74%	322,566.06
Reimbursed Expenditures	20,060.00	41,873.92	208.74%	35,302.80
Gain/Loss on Sale of Asset	0.00	4,182.44		0.00
<b>Total Revenue</b>	<b>9,689,850.00</b>	<b>13,243,316.81</b>	<b>136.67%</b>	<b>357,868.86</b>
<b>Expenditures</b>				
Regular	1,431,950.00	833,712.28	58.22%	611,311.33
Part Time	20,000.00	2,524.51	12.62%	2,268.76
Overtime	7,000.00	157.41	2.25%	764.58
Contractual Employees	30,000.00	73,787.09	245.96%	105,715.47
TCDRS	181,533.00	105,690.73	58.22%	81,229.30
FICA	74,339.00	36,337.89	48.88%	26,427.86
FICA MED	21,591.00	12,012.73	55.64%	8,676.91
Health Insurance	134,542.00	79,813.87	59.32%	58,058.30
Life Insurance	1,697.00	2,196.40	129.43%	703.75
Auto Allowance	16,000.00	5,300.00	33.13%	4,600.00
Other Benefits	117,697.00	62,437.42	53.05%	20,448.99
Unemployment Taxes	855.00	791.96	92.63%	3,104.15
<b>Total Salaries &amp; Wages</b>	<b>2,037,204.00</b>	<b>1,214,762.29</b>	<b>59.63%</b>	<b>923,309.40</b>
<b>Contractual Services</b>				
<b>Professional Services</b>				
Accounting	9,000.00	5,993.71	66.60%	3,738.14
Auditing	50,000.00	22,560.00	45.12%	11,747.50
General Engineering Consultant	445,000.00	0.00		0.00
General System Consultant	425,000.00	0.00		0.00
Toll Collection contract	1,879,111.00	777,802.10	41.39%	0.00
Toll collection mgt admi	131,460.00	0.00		0.00
CSC mgt admin	84,074.00	0.00		0.00
Facility management	176,017.00	32,797.52	18.63%	0.00
Facility management	63,017.00	30,209.22	47.94%	0.00
Toll perform plan	35,106.00	0.00		0.00
Human Resources	30,000.00	13,889.20	46.30%	10,728.70
Legal	150,000.00	63,156.07	42.10%	44,960.04
Photography	15,000.00	16,985.00	113.23%	13,900.43
Traffic & Revenue Consultants	50,000.00	45,000.00	90.00%	0.00
Communications and Marketing	150,000.00	51,858.28	34.57%	83,042.03
Transcripts	1,000.00	0.00		0.00
<b>Total Professional Services</b>	<b>3,693,785.00</b>	<b>1,060,251.10</b>	<b>28.70%</b>	<b>168,116.84</b>

	Budget FY 2008	Actual Year To Date 2/29/2008	Percent Of Budget	Actual Year To Date 2/28/2007
<b>Other Contractual Services</b>				
IT Services	683,240.00	24,796.39	3.63%	2,445.50
Graphic Design Services	20,000.00	625.00	3.13%	750.00
Website Maintenance	20,000.00	3,910.25	19.55%	11,460.41
Research Services	45,000.00	5,565.00	12.37%	0.00
Copy Machine	13,000.00	5,710.87	43.93%	6,012.60
Software licenses	24,000.00	20,396.80	84.99%	20,397.80
ETC system Maintenance	1,177,800.00	0.00		0.00
Advertising	56,000.00	7,021.96	12.54%	9,061.09
Direct Mail	20,000.00	0.00		4,326.70
Video Production	10,000.00	0.00		78,744.48
Television	20,000.00	0.00		170,484.68
Radio	50,000.00	4,985.00	9.97%	7,500.00
Other Public Relations	0.00	1,032.73		13,933.75
Security Contracts	350,000.00	122,809.77	35.09%	134.40
Cell Phones	6,800.00	5,308.37	78.06%	3,156.37
Local	55,252.00	9,553.53	17.29%	3,689.15
Long Distance	2,000.00	392.82	19.64%	550.06
Internet	8,472.00	3,164.37	37.35%	2,142.00
Other Communication Expense	1,000.00	622.24	62.22%	342.01
Dues & Subscriptions	1,850.00	353.00	19.08%	1,876.90
Memberships	14,295.00	5,482.50	38.35%	3,979.85
Continuing Education	6,000.00	714.85	11.91%	2,374.95
Professional Development	22,000.00	238.00	1.08%	950.00
Seminars and Conferences	26,450.00	13,767.00	52.05%	15,990.00
Total Travel	70,500.00	33,682.84	47.78%	13,551.83
Other Contractual Svcs	0.00	1,277.90		3,240.50
Roadway maintenance contract	1,157,000.00	136,891.08	11.83%	0.00
Contractual Contingencies	141,000.00	2,898.43	2.06%	23446.00%
<b>Total Other Contractual Services</b>	<b>4,001,659.00</b>	<b>411,200.70</b>	<b>10.28%</b>	<b>377,329.49</b>
<b>Total Contractual Expenses</b>	<b>7,695,444.00</b>	<b>1,471,451.80</b>	<b>19.12%</b>	<b>545,446.33</b>

	Budget FY 2008	Actual Year To Date 2/29/2008	Percent Of Budget	Actual Year To Date 2/28/2007
<b>Materials and Supplies</b>				
Books & Publications	10,400.00	4,811.71	46.27%	1,613.24
Office Supplies	15,500.00	4,004.65	25.84%	7,046.28
Computer Supplies	15,500.00	2,009.03	12.96%	4,417.05
Copy Supplies	3,000.00	0.00		0.00
Annual Report	20,000.00	0.00		14,564.62
Other Reports	50,500.00	25,528.63	50.55%	1,006.00
Direct Mail	0.00	431.02		0.00
Office Supplies	3,500.00	1,718.96	49.11%	3,574.77
Maintenance Supplies	100.00	0.00		0.00
Promotional Items	10,000.00	199.34	1.99%	7,926.37
Displays	5,000.00	468.93	9.38%	12,703.42
Tools & Equipment	2,700.00	864.95	32.04%	1,188.67
Misc Materials & Supplies	3,500.00	6,340.99	181.17%	929.98
<b>Total Materials &amp; Supplies Exp</b>	<b>139,700.00</b>	<b>46,378.21</b>	<b>33.20%</b>	<b>54,970.40</b>

	Budget FY 2008	Actual Year To Date 2/29/2008	Percent Of Budget	Actual Year To Date 2/28/2007
<b>Operating Expenses</b>				
Gasoline	10,000.00	2,276.53	22.77%	0.00
Mileage Reimbursement	7,850.00	4,477.17	57.03%	3,590.60
Parking	26,950.00	16,771.53	62.23%	14,785.42
Meeting Facilities	2,600.00	50.00	1.92%	0.00
Community Events	20,000.00	0.00		250.00
Meeting Expense	6,325.00	3,273.51	51.76%	2,214.22
Public Notices	2,300.00	3,261.14	141.79%	9.00
Postage	8,900.00	1,118.99	12.57%	1,250.09
Overnight Services	1,250.00	1,263.67	101.09%	142.90
Delivery Services	2,400.00	989.53	41.23%	1,114.21
Insurance	175,000.00	69,286.32	39.59%	21,568.24
Repair & Maintenance-Vehicles	2,000.00	109.39	5.47%	0.00
Rent	181,973.00	122,814.74	67.49%	112,607.63
Water	7,400.00	0.00		0.00
Electricity	56,000.00	55,427.70	98.98%	2,314.70
Amortization Expense	34,808.00	652,580.69	1874.80%	23,240.44
Dep Exp- Furniture & Fixtures	4,000.00	11,496.34	287.41%	6,843.61
Dep Expense - Equipment	1,200.00	12,576.48	1048.04%	6,256.48
Dep Expense - Autos & Trucks	8,000.00	2,715.84	33.95%	0.00
Dep Expense-Buildng & Toll Fac	147,898.00	115,303.47	77.96%	0.00
Dep Expense-Highways & Bridges	5,429,806.00	3,221,778.11	59.34%	0.00
Dep Expense-Communic Equip	5,995.00	131,194.37	2188.40%	3,995.15
Dep Expense-Toll Equipment	918,771.00	303,010.88	32.98%	0.00
Dep Expense - Signs	120,436.00	87,657.64	72.78%	0.00
Dep Expense-Land Improvemts	733,880.00	27,318.44	3.72%	0.00
Depreciation Expense-Computers	33,000.00	238,221.44	721.88%	23,030.89
Recruitment	1,000.00	0.00		0.00
Community Initiative Grants	102,500.00	15,000.00	14.63%	109,492.00
<b>Total Operating Expense</b>	<b>8,052,242.00</b>	<b>5,099,973.92</b>	<b>63.34%</b>	<b>332,705.58</b>
<b>Financing Expenses</b>				
Arbitrage Rebate	3,500.00	0.00		3,500.00
Bond Issuance Expense	0.00	769,213.32		0.00
Loan Fees	12,000.00	11,000.00	91.67%	11,000.00
Bond Issuance Cost	25,000.00	0.00		0.00
Trustee Fees	2,000.00	0.00		2,533.36
Bank Fees	2,500.00	16,328.56	653.14%	359.82
Interest Expense	11,443,524.00	7,660,173.82	66.94%	0.00
Contingency	20,000.00	3,500.00	17.50%	0.00
<b>Total Financing Expense</b>	<b>11,508,524.00</b>	<b>8,460,215.70</b>	<b>73.51%</b>	<b>17,393.18</b>
<b>Total Expenses</b>	<b>29,433,114.00</b>	<b>16,292,781.92</b>	<b>55.36%</b>	<b>1,873,824.89</b>
<b>Net Income</b>	<b>-19,743,264.00</b>	<b>-3,049,465.11</b>		<b>-1,515,956.03</b>

CTRMA INVESTMENT REPORT

	Month Ending 2/29/2008					Current Rate as of 2/29/2008	
	Balance 1/31/2008	Additions	Discount Amortization	Accrued Interest	Withdrawals		Balance 2/29/2008
<b>Amount in Trustee TaxStar</b>							
Additional Projects Fund	9,425,795.33	2,481,187.58		31,666.41	349,587.45	11,938,649.32	3.383%
Construction Fund	13,266,040.60	1,449,116.06		35,261.73	2,000,000.00	12,951,714.88	3.383%
Trustee Operating Fund	837,578.93			1,780.64	273.00	288,475.63	3.383%
Renewal & Replacement Fund	100,396.41			29,909.79		100,669.41	3.383%
TxDOT Grant Fund	10,999,504.58			7,963.49	5,990,867.37	11,029,414.37	3.383%
Revenue Fund	5,990,868.37			0.00	0.00	7,964.49	3.383%
Subordinate Lien DS Fund	0.00			36,788.72		13,566,063.64	3.383%
Debt Service Reserve Fund	13,529,274.92			143,643.78	8,340,454.82	49,882,951.74	3.383%
	54,149,459.14	3,930,303.64	0.00				
	4,400,378.31	2,000,000.00		13,471.50	445,000.00	5,968,849.81	3.383%
<b>Amount in TexStar Operating Fund</b>							
Fidelity Money Market Fund	726,774.42	721,104.68		1,236.96	1,449,116.06	0.00	3.080%
-Operating Fund	2,519,719.91	349,587.45		4,826.31	2,524,546.22	0.00	3.080%
-Additional Projects Fund	0.00	732,175.75		74.82	349,662.27	0.00	3.080%
-Debt Service Fund	7,701.36	619,958.33		1,407.36		1,353,541.44	3.080%
-Subordinate Lien DS Fund	1,073,063.72	1,000,000.00		24.51		7,725.87	3.080%
-TxDOT Grant Fund	530,315.76	500,000.00		12,800.43	512,111.78	2,085,864.15	3.080%
-Renewal and Replacement	284,375.86	7,340,458.65		13,398.23	3,541.77	531,602.21	3.080%
-Revenue Fund	678,474.64	5,468,459.25		3,541.77	6,809,522.26	818,854.02	3.080%
-General Fund	9,315.33			479.84		6,147,413.73	3.080%
-Debt Service Reserve Fund	6,561,916.75	15,999,568.36	0.00	31.58		9,346.91	3.080%
	18,030.41	98,000.00		37,821.81	11,644,958.59	10,954,348.33	
				20.30		113,039.86	3.010.85
<b>Money Market Fund-payroll</b>							
Amount in Fed Agencies	998,189.93	500,334.00	562.57	4,484.02	1,499,086.50	0.00	
Amortized Principal	998,189.93	500,334.00	562.57		1,499,086.50	0.00	
Accrued Interest							
<b>Total in Pools</b>							
Total in Money Market	58,549,837.45	5,930,303.64	0.00	157,115.28	8,785,454.82	55,851,801.55	
Total in Fed Agencies	6,579,947.16	16,097,568.36	0.00	37,842.11	11,757,998.45	10,957,359.18	
	998,189.93	500,334.00	562.57	0.00	1,499,086.50	0.00	
	66,127,974.54	22,528,206.00	562.57	194,957.39	22,042,539.77	66,809,160.73	

All investments in the portfolio are in compliance with the CTRMA's Investment policy

William Chapman, CFO

Amount in Fed Agencies As of February 29, 2008

Agency	CUSIP #	COST	Book Value	Market Value	Yield to Maturity	Purchased	Matures	FUND
Fannie Mae	31359M5N9	500,334.00	500,324.97	500,000.00	5.264%	2/6/2008	2/26/2010	Renwal and Replacement
Federal Home Loan Bank	3133X6DE3	997,142.00	998,761.53	1,000,000.00	4.310%	12/5/2007	5/5/2008	TxDOT Grant Fund
		<u>1,497,476.00</u>	<u>1,499,086.50</u>	<u>1,500,000.00</u>				

Agency	CUSIP #	COST	Cummulative Amortization	2/29/08 Book Value	Maturity Value	Interest Income February 2008	Accrued Interest	Amortization	Interest Earned
Fannie Mae	31359M5N9	500,334.00	9.03	Called 500,324.97	500,000.00	1,463.19	-9.03	1,454.16	
Federal Home Loan Bank	3133X6DE3	997,142.00	1,619.53	998,761.53	1,000,000.00	3,020.83	571.60	3,592.43	
		<u>1,497,476.00</u>	<u>1,628.56</u>	<u>1,499,086.50</u>	<u>1,500,000.00</u>	<u>4,484.02</u>	<u>562.57</u>	<u>5,046.59</u>	
						<u>4,484.02</u>	<u>562.57</u>	<u>5,046.59</u>	





## Monthly Newsletter - February 2008

### Performance

<i>As of February 29, 2008</i>		<i>February Averages</i>	
Current Invested Balance	\$6,294,186,095.49	Average Invested Balance	\$6,241,940,362.82
Weighted Average Maturity (1)	17 Days	Average Monthly Yield, on a simple basis	3.4224%
Weighted Average Maturity (2)	85 Days	Average Weighted Average Maturity (1)*	17 Days
Net Asset Value	1.000401	Average Weighted Average Maturity (2)*	82 Days
Total Number of Participants	609	<b>Definition of Weighted Average Maturity (1) &amp; (2)</b>	
Management Fee on Invested Balance	0.12%*	(1)	This weighted average maturity calculation uses the SEC Rule 2a-7 definition for stated maturity for any floating rate instrument held in the portfolio to determine the weighted average maturity for the pool. This Rule specifies that a variable rate instrument to be paid in 397 calendar days or less shall be deemed to have a maturity equal to the period remaining until the next readjustment of the interest rate.
Interest Distributed	\$17,219,416.46	(2)	This weighted average maturity calculation uses the final maturity of any floating rate instruments held in the portfolio to calculate the weighted average maturity for the pool.
Management Fee Collected	\$249,591.10	* The maximum management fee authorized for the TexSTAR Cash Reserve Fund is 12 basis points. This fee may be waived in full or in part in the discretion of the TexSTAR co-administrators at any time as provided for in the TexSTAR Information Statement.	
% of Portfolio Invested Beyond 1 Year	8.86%		
Standard & Poor's Current Rating	AAAm		

Rates reflect historical information and are not an indication of future performance.

### New Participants

We would like to welcome the following entities who joined the TexSTAR program in February 2008:

- |                                   |                                     |                                |
|-----------------------------------|-------------------------------------|--------------------------------|
| ★ City of Fort Stockton           | ★ Argyle ISD                        | ★ Pecos-Barstow-Toyah ISD      |
| ★ Brazoria Fort Bend County MUD 1 | ★ Travis County Healthcare District | ★ Northeast Hospital Authority |

### Holiday Reminder

Please note that in observance of the Good Friday holiday, **TexSTAR will be closed on Friday, March 21, 2008.** Notification of any early transaction deadlines on the day preceding this holiday will be sent by email to the primary contact on file for all TexSTAR participants.

### Economic Commentary

Economic data point to continued anemic growth. The estimated probability of recession increased to 45% as consumer confidence plummeted, labor market conditions softened, stock prices fell, housing problems continued, and credit issues worsened. In addition, both gas prices and mortgage rates shifted upward again as inflation firmed. The pace of layoffs accelerated, with the four-week average of initial jobless claims climbing to 360,500 at the end of January. The unemployment rate is expected to tick up to 5.0% as consumers find jobs more difficult to obtain. Existing home sales edged down 0.4% in January while new home sales slid 2.8% in the same period. Also inventories of existing homes, which make up almost 90% of total homes for sale, bounced up 5.5%.

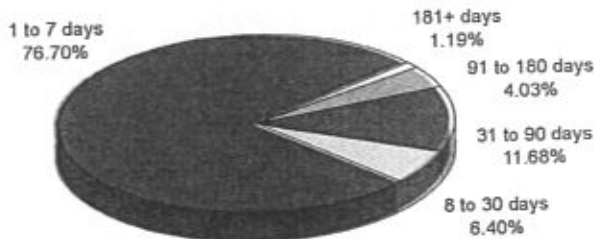
Inflation news turned unfavorable last month as broad-based firming was reported in both the core PCE and core CPI. The January core CPI rose a higher-than-expected 0.3%, pushing its year-on-year increase to an elevated 2.5%. In the markets' continued flight to quality, Treasury yields plummeted further and the curve steepened by 18 bps as the spread between two and five-year Treasury notes ended February at +85 bps. Two-year yields ended the month down 48 bps at 1.62% and five-year yields ended down 29 bps at 2.47%. Meanwhile, LIBOR rates declined slightly, with one-month and twelve-month rates lower by 3 bps and 14 bps at 3.11% and 2.71%, respectively.

The Fed is expected to cut rates by 50 bps at the March 18th FOMC meeting. Despite the uptrend in inflation, the Fed's focus remains on economic growth, and they will most likely cut rates as much as necessary to stimulate growth. The economy should grow at a 1.0% annualized pace in the first quarter, boosted by strength in net exports. Solid economic growth is anticipated in the second half of the year as the effects of the federal stimulus package and the lagged effects of monetary policy take effect.

**For more information about TexSTAR, please visit our web site at [www.texstar.org](http://www.texstar.org).**

## Information at a Glance

### Portfolio by Type of Investment As of February 29, 2008

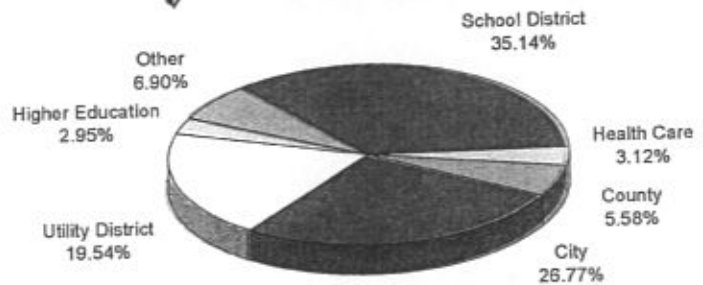


Repurchase Agreements  
66.11%



Agencies  
33.89%

### Portfolio by Maturity As of February 29, 2008



### Distribution of Participants by Type As of February 29, 2008

## Performance

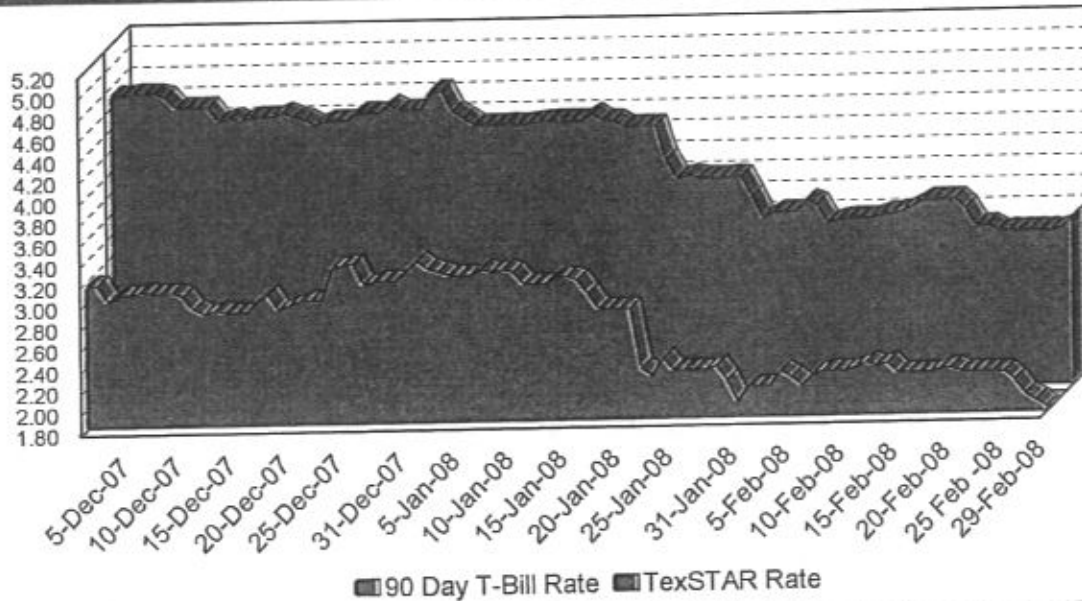
Month	Average Rate	Book Value	Market Value	Net Asset Value	WAM (1)*	WAM (2)*	Number of Participants
Feb 08	3.4224%	\$ 6,294,186,095.49	\$ 6,296,863,425.91	1.000401	17	82	609
Jan 08	4.2033%	5,919,661,192.90	5,923,891,294.00	1.000714	22	80	603
Dec 07	4.5430%	5,180,414,831.71	5,181,584,153.60	1.000202	21	79	594
Nov 07	4.6975%	4,999,671,312.52	5,000,767,637.47	1.000190	18	79	591
Oct 07	4.9007%	4,793,406,663.48	4,794,712,410.18	1.000272	19	84	584
Sep 07	5.1175%	5,101,146,389.66	5,102,374,857.54	1.000240	20	78	573
Aug 07	5.2540%	5,117,776,256.51	5,118,532,127.32	1.000118	16	42	567
Jul 07	5.2540%	5,117,776,256.51	5,118,532,127.32	1.000037	18	22	554
Jun 07	5.2829%	5,037,425,646.08	5,037,616,062.72	1.000014	18	25	543
May 07	5.2883%	4,850,271,396.79	4,850,377,392.01	1.000014	18	25	543
Apr 07	5.2613%	4,809,313,042.18	4,809,314,578.92	1.000000	11	20	531
Mar 07	5.2803%	5,032,146,136.61	5,031,747,141.26	0.999920	13	23	523
Feb 07	5.2999%	5,200,629,725.85	5,200,442,100.26	0.999957	11	26	513
Jan 07	5.2903%	5,608,621,555.72	5,608,663,678.19	1.000007	12	31	505

## Portfolio Asset Summary as of February 29, 2008

	Book Value	Market Value
Uninvested Balance	\$ 967.04	\$ 967.04
Accrual of Interest Income	7,105,105.62	7,105,105.62
Interest and Management Fees Payable	(17,263,014.51)	(17,263,014.51)
Payable for Investment Purchased	(15,000,000.00)	(15,000,000.00)
Repurchase Agreements	4,179,793,000.00	4,179,793,000.00
Government Securities	2,139,550,037.34	2,142,227,367.76
<b>Total</b>	<b>\$ 6,294,186,095.49</b>	<b>\$ 6,296,863,425.91</b>

Market value of collateral supporting the Repurchase Agreements is at least 102% of the Book Value. The portfolio is managed by J.P. Morgan Chase & Co. and the assets are safekept in a separate custodial account at the Federal Reserve Bank in the name of TexSTAR. The only source of payment to the Participants are the assets of TexSTAR. There is no secondary source of payment for the pool such as insurance or guarantee. Should you require a copy of the portfolio, please contact TexSTAR Participant Services.

## TexSTAR versus 90-Day Treasury Bill



## Daily Summary for February 2008

Date	Mny Mkt Fund Equiv. [SEC Std.]	Daily Allocation Factor	TexSTAR Invested Balance	Market Value Per Share	WAM Days (1)*	WAM Days (2)*
1-Feb-08	3.4863%	0.000095517	6,001,200,908.16	1.000665	19	83
2-Feb-08	3.4864%	0.000095517	6,001,200,908.16	1.000665	19	83
3-Feb-08	3.4864%	0.000095517	6,001,200,908.16	1.000665	19	83
4-Feb-08	3.5905%	0.000098371	6,087,906,760.44	1.000617	19	81
5-Feb-08	3.5516%	0.000097304	6,152,861,176.60	1.000608	18	80
6-Feb-08	3.3800%	0.000092603	6,220,981,868.15	1.000598	18	79
7-Feb-08	3.4061%	0.000093319	6,247,017,684.98	1.000577	17	81
8-Feb-08	3.4129%	0.000093503	6,334,441,448.17	1.000544	16	79
9-Feb-08	3.4129%	0.000093503	6,334,441,448.17	1.000544	16	79
10-Feb-08	3.4129%	0.000093503	6,334,441,448.17	1.000544	16	79
11-Feb-08	3.4505%	0.000094533	6,372,764,118.26	1.000525	16	78
12-Feb-08	3.4516%	0.000094564	6,389,289,180.39	1.000510	16	81
13-Feb-08	3.4713%	0.000095105	6,349,435,552.35	1.000503	16	82
14-Feb-08	3.5191%	0.000096414	6,353,279,160.89	1.000487	15	81
15-Feb-08	3.5191%	0.000096414	6,353,279,160.89	1.000487	16	81
16-Feb-08	3.5798%	0.000098077	6,225,923,069.39	1.000468	16	81
17-Feb-08	3.5798%	0.000098077	6,225,923,069.39	1.000468	16	81
18-Feb-08	3.5798%	0.000098077	6,225,923,069.39	1.000468	16	81
19-Feb-08	3.4898%	0.000095610	6,190,976,137.78	1.000455	16	82
20-Feb-08	3.3215%	0.000091000	6,186,634,497.54	1.000441	16	85
21-Feb-08	3.3260%	0.000091124	6,277,891,368.60	1.000425	15	83
22-Feb-08	3.2678%	0.000089528	6,265,724,692.94	1.000400	15	83
23-Feb-08	3.2678%	0.000089528	6,265,724,692.94	1.000400	15	83
24-Feb-08	3.2678%	0.000089528	6,265,724,692.94	1.000400	15	83
25-Feb-08	3.2732%	0.000089678	6,296,654,987.63	1.000386	17	84
26-Feb-08	3.2662%	0.000089484	6,290,367,870.77	1.000379	18	85
27-Feb-08	3.2622%	0.000089375	6,279,245,765.77	1.000386	18	85
28-Feb-08	3.2881%	0.000090085	6,318,984,870.67	1.000388	18	86
29-Feb-08	3.3826%	0.000092674	6,294,186,095.49	1.000401	17	85
Average	3.4224%	0.000093765	6,241,940,362.82		17	82

TexSTAR Participant Services  
First Southwest Asset Management, Inc.  
325 North St. Paul Street, Suite 800  
Dallas, Texas 75201



### **TexSTAR Board Members**

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*Advisory Board*

*Advisory Board*

*Advisory Board*

*Advisory Board*

*Advisory Board*

*Advisory Board*

*Advisory Board*

For more information contact TexSTAR Participant Services ★ 1-800-TEX-STAR ★ [www.texstar.org](http://www.texstar.org)

 **First Southwest Asset Management**

 **JPMorganChase**