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

## RESOLUTION NO. 09-75

## 183A Phase II Project <br> RTG Supplemental Work Authorization No. 3

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 $\S 26.01$, 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 first phase of the CTRMA's 183A Project was opened for use on March 3, 2007 with usage significantly above projections; and

WHEREAS, the design and construction of the 183A main lanes north from FM 1431 was anticipated to begin sometime after 2012; however, due to the success of the first phase of the 183A Project, it was determined that such efforts should be undertaken immediately regarding the extension of the main lanes from north of FM 1431 to north of RM 2243 (the "183A Phase II Project"); and

WHEREAS, in Resolution No. 08-50, dated August 27, 2008, the Board of Directors authorized the Executive Director and CTRMA staff to negotiate and enter into a Contract for Engineering Services with Rodriguez Transportation Group for design and engineering services related to the 183A Phase II Project (the "RTG Contract") and the RTG Contract was finalized and executed; and

WHEREAS, the Board of Directors has previously approved Supplemental Work Authorizations 1 and 2 to the RTG Contract by adoption of Resolutions No. 09-07 and 09-08, respectively, dated February 25, 2009, to address various expansions of the scope of work under the RTG Contract; and

WHEREAS, the CTRMA, in coordination with its engineering advisors, determined that it would be beneficial to have RTG perform additional engineering services regarding the relocation of the proposed CR 272/Crystal Falls Parkway exit ramp and the addition of a ramp toll gantry and the scope of such additional efforts are set forth in Supplemental Work Authorization No. 3 (Work Authorization No. 3) for the RTG Contract, substantially in the form set forth in Attachment "A" attached hereto and incorporated herein; and

WHEREAS, HNTB, as the CTRMA's General Engineering Consultant and the Project Manager for the 183A Phase II Project, has represented to the Board of Directors and CTRMA staff that
the expansion of the scope of services reflected in Work Authorization No. 3 and the cost thereof are necessary and appropriate for the continued efficient and timely design and completion of the 183A Phase II Project.

NOW THEREFORE, BE IT RESOLVED, that the Board of Directors approves Work Authorization No. 3 under the RTG Contract in substantially the form attached hereto as Attachment "A" as it relates to the additional scope of services to be provided thereunder, provided that any work commenced under Work Authorization No. 3 be subject to the terms and conditions of the RTG Contract.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 18th day of November, 2009.

Submitted and reviewed by:


General Counsel for the Central
Texas Regional Mobility Authority

Approved:


Ray A. Wilkerson
Chairman, Board of Directors
Resolution Number 09-75
Date Passed 11/18/09

ATTACHMENT "A"
TO
RESOLUTION NO. 09-75
WORK AUTHORIZATION NO. 3
TO RTG CONTRACT

## SUPPLEMENTAL WORK AUTHORIZATION NO. 03 TO WORK AUTHORIZATION NO. 01 CONTRACT FOR ENGINEERING SERVICES

THIS SUPPLEMENTAL WORK AUTHORIZATION is made pursuant to the terms and conditions of Article 4 of the Contract for Engineering Services (the Contract) entered into by and between the Central Texas Regional Mobility Authority (the Authority) and Rodriguez Transportation Group, Inc. (the Engineer) dated November 21, 2008.

The following terms and conditions of Work Authorization No. 01 are hereby amended as follows:

PART 1. The Engineer will perform additional engineering services generally described as revising the completed plan set as needed for the relocation of the proposed CR 272/Crystal Falls Parkway northbound exit ramp and the addition of a ramp toll gantry. This proposed ramp is being relocated from just north of the proposed Blockhouse Creek Bridge to just south of the bridge, a distance of approximately $1,900^{\prime}$. The added ramp toll gantry is along the ramp designated as "EXRNB6".

PART II. The maximum amount payable under this Lump Sum Work Authorization is increased by $\$ 324,995.00$ from $\$ 5,157,503.00$ to $\$ 5,482,498.00$. The additional costs are shown in Exhibit D, Fee Schedule, attached hereto.

Part IV. Consultant shall perform the Services and deliver the related Documents according to the following schedule:
Services under Supplemental Work Authorization No. 3 shall be substantially completed on or before November 2, 2009, in accordance with the Schedule Milestones as shown in EXHIBIT C.

This Supplemental Work Authorization shall become effective on the date of final execution of the parties hereto. All other terms and conditions of Work Authorization No. 01 not hereby amended are to remain in full force and effect.

IN WITNESS WHEREOF, this Supplemental Work Authorization No. 3 is executed in duplicate counterparts and hereby accepted and acknowledged below.

THE ENGINEER


CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY

| (Signature) |
| :---: |
| Mike Heiligenstein |
| (Printed Name) |
| Executive Director |
| (Title) |
| (Date) |

(Signature)
(Printed Name)
(Title)
(Date)

## EXHIBIT A

## SERVICES TO BE PROVIDED BY THE AUTHORITY

The Authority shall perform and provide the following in a timely manner so as not to delay the Services to be provided by the Engineer:

1. Authorize the Engineer in writing to proceed.
2. Render reviews, decisions and approvals as promptly as necessary to allow for the expeditious performance of the Services to be provided by the Engineer.
3. Provide timely review and decisions in response to the Engineer's request for information and/or required submittals and deliverables, in order for the Engineer to maintain the agreed-upon work schedule.

## EXHIBIT B

## SERVICES TO BE PROVIDED BY THE ENGINEER

The Design Consultant Engineer, herein referred to as the "Engineer", shall be responsible for the work described in this Scope of Services.

The additional Scope of Work to be performed by the Engineer under this Supplemental Work Authorization is to provide the necessary engineering and technical services for the revisions to the completed Plans, Specification and Estimate (PS\&E) package. The required revisions are summarized as follows:

- The completed PS\&E package will require revisions as needed for the relocation of the proposed CR 272/Crystal Falls Parkway northbound exit ramp. This proposed ramp is being relocated from just north of the proposed Blockhouse Creek Bridge to just south of the bridge, a distance of approximately $1,900^{\prime}$. Plan sheets impacted by the proposed ramp relocation are within the following limits: From approximate 183A centerline Sta. $470+00$ to Sta. 506+00.
- The completed PS\&E package will require revisions as needed for the addition of a ramp toll gantry at the NB Exit Ramp designated as "EXRNB6". Plan sheets impacted by the addition of the ramp toll gantry are within the following limits: From approximate 183A centerline Sta. $470+00$ to Sta. $506+00$.
- The ramp toll gantry will be a cantilever design that will require special support details.
- Additional toll gantry details will be added to the completed PS\&E package. These details will consist of four (4) wire way attachment details, a wire chase detail at each toll gantry column and details required for the VES Camera and AVI Antenna Support attachments.
- Three (3) additional Cedar Park Special Events Center Large Guide Signs will be included in the PS\&E package.
- Several miscellaneous items include, but are not limited to: striping revisions to reflect thermoplastic contrast marking.
- Conversion of TCEQ calculations from one format to a recently revised format, at the request of TCEQ.

The services shall be performed according to the attached schedule in Exhibit C and shall include the tasks and products more fully described in the following Task Outline.

### 1.01 Design Features

The design progression for the elements associated with this Supplemental Work Authorization shall be as follows:
$90 \%$ Design - Prepare $90 \%$ plans for the roadway, drainage, erosion control, bridge, striping, large guide signs, illumination, ITS, and ETC Sheets.

Final Submittal - The Final Submittal shall be signed and sealed by a Professional Engineer registered in the State of Texas and provided in hard copy, electronic, and *.pdf formats with all comments resolved. The added scope items as defined by this scope shall be incorporated into the original set of construction documents developed under the original contract to form a single set of construction documents.

### 1.05 Supplemental Surveying

## A. Topographic Survey

The Engineer shall:

1. Supplement existing topographic survey within the limits of the ramp relocation as follows:
a. Tie down critical points along the existing NBFR Bridge over Blockhouse Creek.
b. Tie down existing edge of pavement for a distance of approximately $500^{\prime}$ upstream and $1500^{\prime}$ downstream of the relocated ramp gore.

### 1.09 Roadway Design

## A. Basic Plan Sheets

The Engineer will proceed with revisions to the basic plan sheets as further detailed below:

1. Revise the detailed Index of Sheets that identifies each sheet location in the plan set, as well as its corresponding sheet number.
2. Revise Project Layout Sheets, within the limits of the ramp relocation and the added ramp toll gantry, at a scale of $1^{\prime \prime}=200^{\prime}$ that clearly indicates the limits of the entire project.
B. Roadway Plans \& Geometry

The Engineer shall proceed with the revision of the plan sheets impacted by the ramp relocation and the added ramp toll gantry, as further defined in Work Authorization No. 1 (Section 1.09, B, 1, 3, 4, 6, 7, 8, 9, and 10).
C. Grading and Details

The Engineer shall revise the Design Cross Sections, within the limits of the ramp relocation and the added ramp toll gantry, at 100 -foot stations along the mainlanes, ramps, and frontage roads, and other locations as necessary for the determination of revised cut and fill quantities. Cross sections shall display proposed storm sewer and utility elements.

### 1.10 Drainage Design

The Engineer shall proceed with the revision of the plan sheets and other drainage documents impacted by the ramp relocation and the added ramp toll gantry, as further define in Work Authorization No. 1 (Section 1.10, C thru H).

## G. Water Quality

It is anticipated that water quality computations for two (2) water quality ponds will require revisions as a result of the ramp relocation. The two (2) ponds are identified as follows:
a. Sta. $488+00$ (WQ Pond Badger)
b. Sta. $495+50$ (WQ Pond Bulldog)

The Engineer shall revise the pond layouts and details required for the two (2) water quality ponds impacted by the ramp relocation.
The Engineer shall prepare a revision to the TCEQ Contributing Zone Permit, reflecting the updated water quality design computations and revised construction plan sheets. It is assumed that this revision will occur after the original TCEQ CZP permit is approved.
In addition to the services described above, the Engineer shall convert the TECQ calculations to the recently adopted format.

### 1.11 Structural Design

The Engineer shall proceed with the development of the structural design associated with the widening of the NBFR bridge over Blockhouse Creek and revise the design of the NBML bridge over Blockhouse Creek, as further defined in Work Authorization No. 1 (Section 1.11). No structural analysis or condition survey will be performed on the NBFR bridge over Blockhouse Creek.

Bridge Limits Table for bridges impacted by the ramp relocation

| Description | Approx <br> (.ngth | Approx. <br> Width | Estimated <br> \# of spans | Anticipated <br> Beam Type |
| :---: | :---: | :---: | :---: | :---: |
| NBML@ Block House Creek | $900^{\prime}$ | $58^{\prime}$ | 8 | Type IV |
| NBFR @ Block House Creek (Widening) | $880^{\prime}$ | $53^{\prime}$ | 8 | Type IV |
|  |  |  |  |  |

### 1.12 Retaining Wall Design

The Engineer shall proceed with the revision of retaining walls impacted by the ramp relocation, as further defined in Work Authorization No. 1 (Section 1.12A)
Retaining Wall Table for retaining walls impacted by the ramp relocation

| Description | Approximate Location | Approximate <br> Length | Type |
| :---: | :---: | :---: | :---: |
| WALL 18A | Sta. $496+27$ | $170^{\prime}$ | MSE |
| WALL 18B | Sta. $496+27$ to Sta. $498+52$ | $225^{\prime}$ | MSE |
| WALL 18C | Sta. $487+32$ | $225^{\prime}$ | MSE |
| WALL 19 | Sta. $506+21$ to Sta. $508+00$ | $179^{\prime}$ | SOIL NAIL |
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### 1.13 Signing, Markings and Signalization

The Engineer shall proceed with the revision of the signing and marking design impacted by the ramp relocation and the added ramp toll gantry, as further defined in Work Authorization No. 1 (Section 1.13B, D and E)
In addition to the services described above, the Engineer shall revise the plan sheets to reflect the directives provided by the CTRMA/GEC. These directives are related to the proposed main lane striping (i.e. edge lines and lane lines).
Three (3) Large Guide Signs, proposed for the Cedar Park Special Events Center, shall also be incorporated into the PS\&E package.

### 1.14 Traffic Control Plan (TCP)

The Engineer shall proceed with the revision of the TCP design impacted by the ramp relocation and the added ramp toll gantry, as further defined in Work Authorization No. 1 (Section 1.14A, B and C)

### 1.15 Intelligent Transportation Systems (ITS)

The Engineer shall proceed with the revision of the ITS design impacted by the ramp relocation and the added ramp toll gantry, as further defined in Work Authorization No. 1 (Section 1.15)
1.16 Illumination

The Engineer shall proceed with the revision of the Illumination design impacted by the ramp relocation and the added ramp toll gantry, as further defined in Work Authorization No. 1 (Section 1.16)

### 1.17 Toll Facility Design

The Engineer shall proceed with the development of the ETC design impacted by the addition of the ramp toll gantry. Specific design tasks are summarized below:

- Prepare details for attachment of four (4) wire ways to the Mainlane and Ramp Toll Gantry trusses
- Prepare details to accommodate a wire chase at each toll gantry column
- Prepared details required for the VES Camera and AVI Antenna Support attachments
- Prepared details required for the development of an additional ETC Layout (Ramp), ETC Detail (Ramp), and Overall and Partial Site Plans (Electrical)
- Prepare special structural details required for the addition of the cantilever ramp toll gantry.
- Revise the Ramp Gantry Elevation Summary plan sheet


### 1.18 Miscellaneous

The Engineer shall proceed with the revision of Miscellaneous tasks impacted by the ramp relocation and the added ramp toll gantry, as further defined in Work Authorization No. 1 (Section 1.18).
C. Deliverables

The Engineer will submit twelve (12) $11^{\prime \prime} \mathrm{X} 17$ " paper copies at the $90 \%$ Submittal. Final PS\&E Submittal shall include twelve (12) $11^{\prime \prime}$ X 17 "paper copies of the revised plan sheets in addition to the signed, sealed and dated $11^{\prime \prime} \times 17$ " final mylar copy including all supporting documentation and paperwork.

### 1.19 Coordination, Meetings \& Invoicing

The Engineer shall thoroughly review design plans, calculations and cost estimates associated with the requested revisions before submittal to the GEC or CTRMA.

## EXHIBIT C

## WORK SCHEDULE

The Engineer will perform engineering services described in Supplemental Work Authorization No. 3 and will submit deliverables to the Authority based on the following Work Schedule milestones:

Transmittal of completed 90\% Design.<br>October 26, 2009

Transmittal of completed Final Submittal......................November 2, 2009

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RJ RIVERA ASSOCIATES, INC.

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