

**SUPPLEMENTAL AGREEMENT NO. 1  
TO  
AGREEMENT OF APRIL 20, 2011  
FOR  
ENGINEERING SERVICES for  
Fort Bend Grand Parkway Toll Road, Segment D**

This Supplemental Agreement is made and entered into this 21<sup>st</sup> day of September, 2011, and modifies the ENGINEERING SERVICES AGREEMENT made with Edminster, Hinshaw, Russ and Associates, Inc., dated April 20, 2011 for engineering services for the Fort Bend Grand Parkway Toll Road, Segment D.

The agreement is hereby modified as follows:

1. The first sentence of Section 2.a is replaced with the following sentence:

“The Maximum Compensation under this contract is \$550,153.00.”

2. The second paragraph of Section 2.a is replaced with the following paragraph:

“Compensation for performance of services within the Scope of Services described in Attachment A will be as follows: The lump sum compensation shall be increased by \$38,740.00, for the additional work shown in Attachment A. The maximum amount payable under this agreement shall not exceed \$550,153.00, as shown in Attachment B. Progress payments for work detailed in Attachment A will be made when the Engineer has attained a level of completion equal to or greater than the agreed upon milestones of completion in the reasonable opinion of FBGPTRA.”

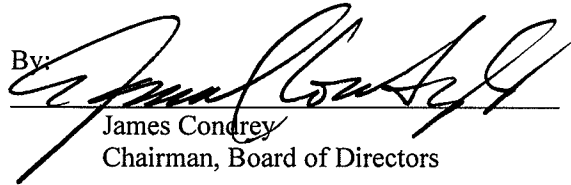
3. The Scope of Services shown in Attachment A shall be expanded to include Exhibit A-1, attached hereto.
4. The Compensation for Scope of Services shown in Attachment B shall be expanded to include Exhibit B-1, attached hereto.

**[Remainder of page intentionally left blank.]**

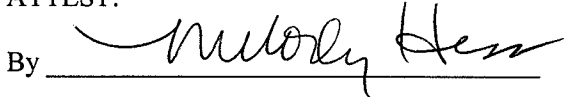
Supplemental Agreement No. 1  
To Agreement of April 20, 2011

IN WITNESS WHEREOF, this Supplemental Agreement is hereby executed as of the date first set forth above.

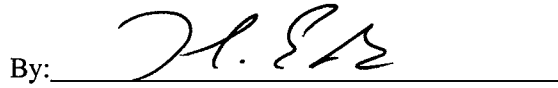
FORT BEND GRAND PARKWAY TOLL  
ROAD AUTHORITY, a local government  
Texas Corporation

By:   
James Condrey  
Chairman, Board of Directors

ATTEST:

By: 

Edminster, Hinshaw, Russ and Associates, Inc.  
ENGINEER

By: 

Name: TRUMAN C. EDMINSTER, III

Title: PRESIDENT

**SUPPLEMENTAL AGREEMENT NUMBER 1**  
**Fort Bend Grand Parkway Toll Road, Segment D, Engineering Services**

**EXHIBIT A-1**  
**ATTACHMENT A**  
**SCOPE OF SERVICES**

**EDMINSTER, HINSHAW, RUSS AND ASSOCIATES, INC.**

Additional Scope of Services due to revised bridge geometry to accommodate Line of Sight (LOS) distance conforming to 60 mph design speed.

**TASK 2 – ROADWAY**

1. Current cross-sections were ready for the 60% submittal, need to be changed to accommodate the widened pavement section and super elevation diagrams for the wider bridges and pavement section.
2. Plan and Profile sheets have to be updated to reflect pavement changes and transition zone.
3. Plan and Profile sheets have to be updated to reflect new limits of slope paving and ditch alignment changes.

**TASK 3 – DRAINAGE**

1. It will be necessary to relook at the impact analysis for the increased pavement area (imperviousness).
2. New calculations will be necessary to confirm current inlet locations and ponding widths on the NBML.

**TASK 5 – RETAINING WALLS**

1. Updates to the retaining walls (2 walls) along the NBML.
2. Updates to the retaining walls (2 walls) along Peek Road.

**TASK 6 – BRIDGES**

1. Bridge Layout Sheet - Update bridge layout per revised bridge geometry.
2. Bridge Typical Sections
  - a. Rerun beam design and determine beam spacing based on the revised geometry.
  - b. Revise typical sections based on the revised geometry, beam spacing and accommodate future widening.
3. Quantity Summary and Bearing Seat Elevations
  - a. Recalculate bearing seat elevations based on revised beam configuration.
4. Foundation Layout
  - a. Revise the location of drilled shafts per revised abutment and bent configurations.
5. Abutment Plan and Elevation
  - a. Plan and elevation views will be revised for increased length of abutments and revised location drilled shafts.
  - b. Require analysis and design of the abutments per revised configuration.
  - c. Revise reinforcing details accordingly.
6. Bent and Column Details
  - a. Plan and elevation views will be revised for increased length of bents. Additional column may be required to accommodate the increased length of bent.
  - b. Require analysis and design of bents per the revised geometry.
  - c. Revise reinforcement details accordingly.
7. Framing Plan
  - a. Re create the framing plan per revised beam spacing.
  - b. Regenerate the Beam Report and Bent Reports for both bridges using Bridge Geometry Software.

8. Slab Plan
  - a. Slab plan detail will be revised per new bridge geometry and revised beam spacing.
  - b. Reinforcing details will be updated accordingly.
9. Slab Typical Section
  - a. Section details will be revised to be consistent with revised bridge geometry and revised beam spacing.
10. Beam Designs
  - a. Revise Beam data per revised beams design.

**TASK 9 – QUANTITY TAKE-OFFS AND SUMMARIES**

1. Recalculate quantities.

**TASK 14 – DESIGN SCHEDULE GUIDELINES**

1. 30% Milestone
  - a. 06/23/2011 Submittal to PMC
  - b. 07/22/2011 PMC Review Complete
2. 60% Milestone
  - a. 10/19/2011 Submittal to PMC
  - b. 11/16/2011 PMC/TxDOT Review Complete
3. 90% Milestone
  - a. 12/28/2011 Submittal to PMC
  - b. 01/11/2012 PMC Review Complete
4. 95% Milestone
  - a. 02/08/2012 Submittal to PMC
  - b. 03/07/2012 PMC/TxDOT Review Complete
5. Final Milestone
  - a. 04/04/2012 Submittal to PMC

**SUPPLEMENTAL AGREEMENT NO. 1**  
**EXHIBIT B-1**  
**ATTACHMENT B**  
**COMPENSATION FOR SCOPE OF SERVICES**  
**FORT BEND GRAND PARKWAY TOLL ROAD (SH 99) - SEGMENT D**

**FEE SCHEDULE SUMMARY**

**SECTION 8 DESIGN SERVICES**  
 Section 8 Limits: Peek Road Bridge  
 Section 8 Station Limits: 1212+50 to 1245+00 (approximate)

**PRIME PROVIDER: EDMINSTER, HINSHAW, RUSS AND ASSOCIATES, INC.**  
**SUB PROVIDER: PATE ENGINEERS**

WORK TASK	DESCRIPTION	EDMINSTER, HINSHAW, RUSS AND ASSOCIATES, INC.	PATE ENGINEERS	TOTAL
2	ROADWAY		\$8,485.00	\$8,485.00
3	DRAINAGE		\$5,205.00	\$5,205.00
5	RETAINING WALLS		\$4,600.00	\$4,600.00
6	BRIDGES	\$19,180.00		\$19,180.00
9	QUANTITY TAKE-OFFS AND QUANTITY SUMMARIES	\$940.00	\$330.00	\$1,270.00
<b>TOTAL</b>		<b>\$20,120.00</b>	<b>\$18,620.00</b>	<b>\$38,740.00</b>
<b>PERCENTAGE OF WORK BY PROVIDER</b>		<b>51.9%</b>	<b>48.1%</b>	<b>100.0%</b>

**SUPPLEMENTAL AGREEMENT NO. 1**  
**EXHIBIT B-1**  
**ATTACHMENT B**  
**COMPENSATION FOR SCOPE OF SERVICES**  
**FORT BEND GRAND PARKWAY TOLL ROAD (SH 99) - SEGMENT D**

**EDMINSTER, HINSHAW, RUSS AND ASSOCIATES, INC.**

**SECTION 8 DESIGN SERVICES**

Section 8 Limits: Peek Road Bridge

Section 8 Station Limits: 1212+50 to 1245+00 (approximate)

TASK DESCRIPTION	NUMBER OF SHEETS	Project Manager	Project Engineer	Design Drafter	TOTAL LABOR HRS & COSTS
<b>LABOR RATE PER HOUR</b>		\$130.00	\$120.00	\$105.00	
<b>BRIDGES</b>					
Revise Bridge Layout Sheets	2	4		8	12
Redo Bridge Typical Sections and calculations	2	8		8	16
Revise Bearing Seat Elevations and calculations	2	8		2	10
Revise Foundation Layout	2	2		4	6
Redo Abutment Plan and Elevation and calculations	6	12		18	30
Redo Bent and Column Detail sheets and calculations	6	16		20	36
Redo Framing Plan	2	4		12	16
Redo Slab Plan	2	4		10	14
Redo Slab Sections	2	4		12	16
Redo Beam Designs and calculations	2	8		2	10
<b>SHEETS &amp; HOURS SUBTOTAL</b>	<b>28</b>	<b>70</b>	<b>0</b>	<b>96</b>	<b>135</b>
<b>SUBTOTAL LABOR COSTS</b>		<b>\$9,100.00</b>	<b>\$0.00</b>	<b>\$10,080.00</b>	<b>\$19,180.00</b>
<b>QUANTITY TAKE-OFFS AND QUANTITY SUMMARIES</b>					
Recalculate quantities		4		4	8
<b>SHEETS &amp; HOURS SUBTOTAL</b>	<b>6</b>	<b>4</b>	<b>0</b>	<b>4</b>	<b>8</b>
<b>SUBTOTAL LABOR COSTS</b>		<b>\$520.00</b>	<b>\$0.00</b>	<b>\$420.00</b>	<b>\$940.00</b>

**SUPPLEMENTAL AGREEMENT NO. 1**  
**EXHIBIT B-1**  
**ATTACHMENT B**  
**COMPENSATION FOR SCOPE OF SERVICES**  
**FORT BEND GRAND PARKWAY TOLL ROAD (SH 99) - SEGMENT D**

**PATE ENGINEERS**

**SECTION 8 DESIGN SERVICES**

Section 8 Limits: Peek Road Bridge

Section 8 Station Limits: 1212+50 to 1245+00 (approximate)

TASK DESCRIPTION	NUMBER OF SHEETS	Project Manager	Project Engineer	Design Drafter	TOTAL LABOR HRS & COSTS
<b>ROADWAY</b>					
LABOR RATE PER HOUR		\$130.00	\$120.00	\$105.00	
Update and Debug Cross-Section sheets	8	1	1	2	4
P & P updates (pavement widths and Transitions Lengths)	1	2	6	18	26
P & P updates(slope paving and ditches)	1	1	6	7	14
Update Superlevation diagrams and pavement edge elevation tables	2	1	4	12	17
Modify Geopak shape files and update earthwork model	19		1	2	3
Create Deomolition Plan for storm sewer at U-Turns	1	1	3	4	8
Create Details for Pavement Repair at U-turns	1	1	1	2	4
<b>SHEETS &amp; HOURS SUBTOTAL</b>	<b>35</b>	<b>7</b>	<b>22</b>	<b>47</b>	<b>76</b>
<b>SUBTOTAL LABOR COSTS</b>		<b>\$910.00</b>	<b>\$2,640.00</b>	<b>\$4,935.00</b>	<b>\$8,485.00</b>
<b>DRAINAGE</b>					
Update impact analysis for increase in Imperviousness		2	3	3	8
Evaluate inlet spacing and ditch impacts	3	2	6	4	12
Update Flowmaster runs for new piping and modify plan sheets	3	1	3	6	10
Design new piping run (plan and lateral profile sheets)	2	1	3	12	16
<b>SHEETS &amp; HOURS SUBTOTAL</b>	<b>8</b>	<b>6</b>	<b>15</b>	<b>25</b>	<b>38</b>
<b>SUBTOTAL LABOR COSTS</b>		<b>\$780.00</b>	<b>\$1,800.00</b>	<b>\$2,625.00</b>	<b>\$5,205.00</b>
<b>RETAINING WALLS</b>					
Change Retaining walls along northbound Mainlanes	2	2	3	16	21
Change in Retaining walls along Peek Road	2	2	3	16	21
<b>SHEETS &amp; HOURS SUBTOTAL</b>	<b>4</b>	<b>4</b>	<b>6</b>	<b>32</b>	<b>42</b>
<b>SUBTOTAL LABOR COSTS</b>		<b>\$520.00</b>	<b>\$720.00</b>	<b>\$3,360.00</b>	<b>\$4,600.00</b>
<b>QUANTITY TAKE-OFFS AND QUANTITY SUMMARIES</b>					
Recalculate quantities			1	2	3
<b>SHEETS &amp; HOURS SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
<b>SUBTOTAL LABOR COSTS</b>		<b>\$0.00</b>	<b>\$120.00</b>	<b>\$210.00</b>	<b>\$330.00</b>