



**CENTRAL TEXAS
Regional Mobility Authority**

AGENDA ITEM #5 SUMMARY

Approve an amended work authorization with Atkins North America, Inc., relating to the Bergstrom Expressway Project.

Strategic Plan Relevance:	Regional Mobility
Department:	Engineering
Associated Costs:	\$2,740,600.00
Funding Source:	General Fund; Reimbursed with TxDOT Toll Equity Grant
Board Action Required:	Yes

Description of Matter: Atkins North America, Inc. will provide General Engineering Consultant services related to project activities required to assist the Mobility Authority in development of the Bergstrom Expressway. These efforts will include, but not be limited to, project management, administrative tasks, and program oversight including coordination with TxDOT, consultants, resource agencies, the TxDOT Environmental Affairs Division, and the FHWA as required for permitting, environmental approval, schematic design review, design alternative analysis, toll systems design support, public involvement support, a portion of CDA procurement management services, and additional activities as specifically requested by the Mobility Authority.

Reference documentation: Draft Resolution; Supplemental Work Authorization No. 2 to Work Authorization No. 2

Contact for further information: Wesley M. Burford, P.E., Director of Engineering

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

RESOLUTION NO. 12-__

**APPROVING AN AMENDED WORK AUTHORIZATION WITH
ATKINS NORTH AMERICA, INC., RELATING TO
THE BERGSTROM EXPRESSWAY PROJECT.**

WHEREAS, Atkins North America, Inc., formerly Post, Buckley, Schuh & Jernigan, Inc., a/k/a PBS&J (“Atkins”) serves as a general engineering consultant to the Mobility Authority under the Agreement for General Consulting Civil Engineering Services effective January 1, 2010 (the “GEC Agreement”); and

WHEREAS, by Resolution No. 09-88 enacted on December 17, 2009, the Board approved a work authorization for Atkins to provide GEC Construction Development Services for the Bergstrom Expressway/183 South Toll Project (the “Project”); and

WHEREAS, the Executive Director and Atkins have discussed and agreed to a proposed amendment to that work authorization to continue Atkin’s support of GEC Construction Development Services for the Project; and

WHEREAS, the Executive Director recommends approval of the proposed amendment to the work authorization attached as Exhibit 1.

NOW THEREFORE, BE IT RESOLVED that the proposed amendment to the work authorization is hereby approved; and

BE IT FURTHER RESOLVED that the Executive Director may finalize and execute for the Mobility Authority the proposed amendment to the work authorization in the form or substantially the same form as Exhibit 1.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 29th day of August, 2012.

Submitted and reviewed by:

Approved:

Andrew Martin
General Counsel for the Central
Texas Regional Mobility Authority

Ray A. Wilkerson
Chairman, Board of Directors
Resolution Number: 12-__
Date Passed: 08/29/2012

EXHIBIT 1 TO RESOLUTION 12-
AMENDED WORK AUTHORIZATION WITH ATKINS NORTH AMERICA, INC.

[on the following 3 pages]

ATTACHMENT C

**C-2
SUPPLEMENTAL WORK AUTHORIZATION NO. 2
TO WORK AUTHORIZATION NO. 2
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 Atkins North America, Inc. (the Engineer) dated January 4, 2010.

The following terms and conditions of Work Authorization No. 2 are hereby amended as follows:

Please reference Attachment A – Services to be Provided by the GEC

Services defined herein shall begin June 27, 2012 and shall be substantially complete by June 27, 2014. The Supplemental Work Authorization will not expire until all tasks associated with the Scope of Services are complete.

In return for the performance of the foregoing obligations, the Authority authorizes to the GEC an amount \$2,740,600 based on Attachment B-Fee Estimate. This will increase the not to exceed amount for Work Authorization No. 2 from \$648,522 to \$3,389,122. Compensation for Direct Expenses under this Work Authorization which are incurred as part of normal business operations (i.e., internal document reproduction, internal plotting, travel and parking associated with local meetings, etc.) will be reimbursed on a Lump-Sum basis in the amount of: \$9,120 (with \$380 to be invoiced monthly). Compensation shall be in accordance with the Agreement.

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. 2 not hereby amended are to remain in full force and effect.

IN WITNESS WHEREOF, this Supplemental Work Authorization is executed in duplicate counterparts and hereby accepted and acknowledged below.

THE ENGINEER

**CENTRAL TEXAS REGIONAL
MOBILITY AUTHORITY**

(Signature)

(Signature)

(Printed Name)

Mike Heiligenstein

(Title)

Executive Director

(Date)

(Date)

CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY
SUPPLEMENTAL WORK AUTHORIZATION NO. 2 TO
WORK AUTHORIZATION NO. 2
ATKINS
ATTACHMENT A
SERVICES TO BE PROVIDED BY GEC

1.0 183S TURNPIKE PROJECT

1.1 Environmental Study / Document Services [Code 13210]

1.1.1 US 183 Environmental Assessment (EA)

1.1.1.1 Facilitate EA project status meetings with TxDOT and other Agencies as needed.

- a. Prepare meeting agendas, action items and meeting summaries.

1.1.1.2 Complete EA document reviews prior to submittal to Environmental Affairs Divisions (ENV), Federal Highway Administration (FHWA) and other Resources Agencies.

- a. Prepare and submit recommendations/comments to the Austin District prior to ENV submittal.
- b. Prepare and submit recommendations/comments to the Austin District prior to FHWA submittal.

1.1.1.3 Update traffic information and data for specific elements of the EA.

- a. Update traffic information and data associated with the Level of Service for the Environmental Justice Analysis.
- b. Update traffic information and data for the Noise Analysis, Air Quality CO Analysis and the MSAT.

1.1.1.4 Update the US 183 Regional Toll Analyses. The analysis used CAMPO's 2030 plan and has now elapsed. This will included the following:

- a. Incorporations of the results of CAMPO's new 2035 plan.

1.1.1.5 Develop Figures for EA.

- a. Prepare the following Figures: Project Locations, Roadway Typical Sections, Topographic, Area of Influence, Water Resource Study Area, Land Use Resource Study Area, and Floodplain, 2010 no-Build Network System, 2030 Build Network System, and Proposed Plan by 2030.
- b. Prepare Roadway Project Layouts based on TxDOT design and additional modifications as directed by TxDOT and the CTRMA.

1.1.1.6 Facilitate Public Involvement Support.

- a. Public Involvement Support
 - Prepare a comprehensive mailing list of adjacent property owners which may include additional property owners defined by the CTRMA

- Distribute invitations based on comprehensive mailing lists
 - Support the CTRMA in the development and maintenance of the Project Website.
 - Support the CTRMA in the development of miscellaneous public involvement included but not limited to fact sheets, stake holder lists, advertisements, and news letters
 - Develop 3D roadway animation incorporating schematic and context sensitive designs as directed by the CTRMA.
- b. Public Meetings
- Prepare Plan View (scroll type) Exhibit for one (1) meeting.
 - Facilitate and prepare documents for one (1) TxDOT sanctioned Public Meeting including the completion of the Summary and Analysis (S&A) and additional requirements of the TxDOT Administrative Code.
 - Provide supporting staff as needed for one (1) meeting.
- c. Public Hearing
- Prepare a comprehensive mailing list of adjacent property owners which may include additional property owners defined by the CTRMA.
 - Distribute invitations based on comprehensive mailing lists.
 - Prepare Plan View (scroll type) Exhibit for (1) meeting.
 - Provide supporting staff as needed for one (1) meeting.
 - Provide supporting documentation as directed by the CTRMA.
- d. Context Sensitive Solutions
- Prepare Plan View (scroll type) Exhibit for (2) Meetings.
 - Provide supporting staff as needed for (2) Meeting.
 - Provide supporting documentation as directed by the CTRMA.
- e. CTRMA Open House/Workshops
- Prepare Plan View (scroll type) Exhibit for (3) Meetings.
 - Provide supporting staff as needed for (3) Meeting.
 - Provide Supporting Documentation as directed by the CTRMA.

1.2 Preliminary Engineering [Code 13110]

1.2.1 Design of Corridor Exhibits and Schematic

- 1.2.1.1 TxDOT Support: Provide engineering support as directed by the CTRMA for the review and updates to the corridor exhibit.
- 1.2.1.2 Design Verification: Provide a cursory review of the current TxDOT Design to ensure that all elements conform to current standards. Develop a list of non-conformance elements and provide recommendations the CTRMA. Develop a design notebook which notes the results of the design.
- 1.2.1.3 Design Modifications: Address all non-conformance elements as directed by the CTRMA.
- 1.2.1.4 Share Use Path: Provide a cursory review of the current TxDOT Design to ensure that a Shared Use Path can be incorporated into the Design. Provide recommendations to the locations of the Shared Use Path. Incorporate the proposed design as directed by the CTRMA.
- 1.2.1.5 Tree Alternative Design: Evaluate and re-design the TxDOT alternative which avoids specific trees within the corridor.
- 1.2.1.6 Mobility Improvements associated with Logical Termini. Evaluate and update the design of the TxDOT proposed Mobility improvement at the south end of the Project (at SH 71).
- 1.2.1.7 Pedestrian Bridge: Evaluate, Design and identify the location of the additional pedestrian bridge in the vicinity of the YMCA.
- 1.2.1.8 Develop a design schematic based on the existing TxDOT plans incorporating alternative design modifications as directed by the CTRMA.
- 1.2.1.9 Preliminary Cross-sections: Develop cross-sections including limits of construction in order to evaluate the ROW footprint. Provide comments and recommendations to the CTRMA.

1.3 Project Oversight – Pre Construction [Code 13710]

1.3.1 Project Management

- 1.3.1.1 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.
- 1.3.1.2 Project Management Plan (PMP)
 - a. Develop the corridor specific PMP's in accordance with FHWA published Guidance Documents, as directed by the Authority.
- 1.3.1.3 Document Controls
 - a. Implement document control plan
 - b. Maintain project files for the length of the project

- c. Transfer project files to CTRMA upon completion of the work or as directed by the CTRMA

- 1.3.1.4 Sub-Consultant Coordination, Work Authorization Management and Invoicing.

1.3.2 Project Reporting

- 1.3.2.1 Provide updates to CTRMA on key tasks accomplished during the preceding month, meetings and key activities for the upcoming month, and identify outstanding issues requiring resolution.
- 1.3.2.2 Provide Project Administrative support staff to track, monitor, evaluate and report on contracts and budgets.

1.3.3 Project Scheduling

- 1.3.3.1 Maintain a Master Project Schedule (Primavera format) that will show critical milestones for the performance and coordination of services.
- 1.3.3.2 Monitor, evaluate, and validate all schedules produced by others (Segment Designers, Utility Companies, etc.) that are a subset of the Master Project Schedule.
- 1.3.3.3 Provide updates of schedules at the appropriate stages of the project and shall provide an assessment of schedules provided by applicable third parties for integration into the Master Project Schedule.

1.3.4 Project Development Support

- 1.3.4.1 Loan and/or Grant Applications: Assist the Authority in the development of land and/or grant applications.
- 1.3.4.2 Engineering and Technical Support: Provide various engineering and technical tasks as requested by the Authority including but not limited to engineering assistance, general technology assistance, general environmental coordination reports, research, and presentations.
- 1.3.4.3 Traffic Modeling: Conduct peer review of the CORSIM and/or VISSIM Traffic Models and provide summary of suggestions.
- 1.3.4.4 TxDOT Coordination: Provide the appropriate staff as part of the coordination efforts between the Authority and TxDOT, as directed by the Authority.
- 1.3.4.5 Agency Coordination: Provide the appropriate staff as part of the coordination efforts between the Authority and Agencies, as directed by the Authority.
- 1.3.4.6 Traffic & Revenue Consultant Coordination: Provide the appropriate staff as part of the coordination efforts between the Authority and the Authority's Traffic and Revenue) Consultant, as directed by the Authority.
- 1.3.4.7 Project Development Agreement (PDA): Assist in the development of the PDA, generation of PDA exhibits, review of PDA drafts, and TxDOT coordination support, as directed by the Authority.
- 1.3.4.8 DBE Outreach and Public Involvement support as requested by the Authority.

1.3.5 Financial Planning Support

1.3.5.1 Operation, Maintenance, and Renewal& Replacement Estimates

- a. Develop and/or update GEC's opinion of probable operations cost estimates using either a Sketch Level approach (assumed per transaction costs based on average operations cost of similar toll systems) or a Level 1 approach (estimate actual quantities for various elements of toll operations, enforcement and incident management and applying anticipated unit prices to opening year with an escalation over an established periods of time)
- b. Develop and/or update GEC's opinion of probable annual/routine maintenance cost estimates using either a Sketch level approach (an estimated per centerline mile cost based on facility type which considers the number of lanes, pavement material and location) on a Level 1 approach (estimated quantities for the various elements of the maintenance efforts and applying anticipated unit prices to opening year cost with escalation over an established period of time)
- c. Develop and/or update GEC's opinion of probable renewal & replacement budget cost estimates (non-routine estimates) using wither a Sketch Level approach (an estimated per mile cost based on renewal & replacement budgets utilized on similar facilities) or a Level 1 approach (identification of long-term, periodic maintenance replacement schedule, estimation of quantities, and apply escalation to the appropriate replacement years.)

1.3.5.2 Project Cost Estimates: Prepare an estimate of probable construction costs which will include quantity/cost for all major components of work. Prepare estimate for total project cost which will include: program management, preliminary engineering, final engineering, right-of-way, environmental compliance/mitigation, construction, toll collection systems, utility relocation, and CE&I, and financing.

1.3.5.3 Financial Advisor Support / Financial Plan Development: Provide financial advisor support necessary for the Authority to conduct financial programming. Including but not limited to cost estimating, financing techniques, shortfall mitigation techniques, and funding contingency plan.

1.3.6 Conceptual Operations Plan

1.3.6.1 Prepare a preliminary draft Conceptual Operations Plan which will establish the basic framework for operations of the facility including a basic definition of systems architecture for ITS and toll collection, incident management, safety and enforcement, maintenance. The plan will include role and responsibilities of various agencies.

1.4 Pre-Investment Grade Traffic & Revenue Analysis Coordination [Code 13120]

1.4.1 Support the Authority during their coordination efforts with the Traffic & Revenue consultant, as directed by the Authority.

1.4.2 Provide detailed project configuration and scope information to the Traffic & Revenue consultant. Review Draft Traffic & Revenue Analyses to ensure consistency with project information.

1.5 Investment Grade Traffic & Revenue Analysis Coordination [Code 13330]

1.5.1 Scope of Services for this task is not included

1.6 Project Oversight – CDA [Code 13730]

1.6.1 Scope of Services for this task is not included

1.7 Environmental Permit Support [Code 13220]

1.7.1 Scope of Services for this task is not included

1.8 Final Design Services [Code 13310]

1.8.1 Scope of Services for this task is not included

1.9 ROW Acquisition & Relocation Services [Code 13410]

1.9.1 Scope of Services for this task is not included

1.10 ROW Litigation / Condemnation Services [Code 13450]

1.10.1 Scope of Services for this task is not included

Attachment B - Fee Estimate

CTRMA General Engineering Consultant
 Atkins - Man-hour Breakdown & Fee Estimate
 183 South Turnpike Project (Bergstrom Expressway)

ATKINS - Supplemental Work Authorization #2 to Work Authorization #2 183 South Turnpike Project (Bergstrom Expressway)

STAFFING / PROJECT TITLE / WORK AUTHORIZATION CLASSIFICATION

NAME	PROJECT TITLE	WORK AUTHORIZATION CLASSIFICATION
Bierma, Mike	Principal in Charge	A
Ploch, Eric	GEC Program Manager	A
Miller, Alastair	Corridor Manager	A
Lowe, Thomas (TW)	Corridor Manager	B
Autry, Aaron	Corridor Manager	B
Blake, Greg	Sr. Project Manager	B
Freeman, Dan	Sr. Project Manager	B
	Administrative Coordinator I	E, F
	Communications Coordinator I	E, F
	Designer I	E, F
	Engineer I	E, F
	Estimator/Scheduler I	E, F
	GIS Analyst I	E, F
	Graphic Design Coordinator	E, F
	Office Engineer I	E, F
	Planner I	E, F
	Project Coordination Analyst I	E, F
	Project Engineer I	E, F
	Public Information Specialist I	E, F
	ROW Agent I	E, F
	Scientist I	E, F
	Technology Procurement Coordinator I	E, F
	Administrative Coordinator II	D, E, F
	CAD Designer	D, E, F
	CAD Manager I	D, E, F
	Communications Coordinator II	D, E, F
	Community Relations Coordinator II	D, E, F
	Designer II	D, E, F
	Engineer II	D, E, F
	Estimator/Scheduler II	D, E, F
	GIS Analyst II	D, E, F
	ITS Analyst II	D, E, F
	Landscape Architect II	D, E, F
	Planner II	D, E, F
	Public Information Specialist II	D, E, F
	ROW Agent II	D, E, F
	Scientist II	D, E, F
	Sr. Technical Writer	D, E, F
	Technical Coordinator II	D, E, F
	Technical Editor	D, E, F
	Technology Procurement Coordinator II	D, E, F
	Associate Project Manager	C, D, E, F
	CAD Manager II	C, D, E, F
	Engineer III	C, D, E, F
	Sr. Administrative Coordinator I	C, D, E, F
	Sr. Applications Developer I	C, D, E, F
	Sr. Architect I	C, D, E, F
	Sr. Designer I	C, D, E, F
	Sr. Engineer I	C, D, E, F
	Sr. Estimator/Scheduler I	C, D, E, F

**ATKINS - Supplemental Work Authorization #2 to Work Authorization #2
 183 South Turnpike Project (Bergstrom Expressway)**

STAFFING / PROJECT TITLE / WORK AUTHORIZATION CLASSIFICATION

NAME	PROJECT TITLE	WORK AUTHORIZATION CLASSIFICATION
	Sr. GIS Analyst I	C, D, E, F
	Sr. ITS Analyst I	C, D, E, F
	Sr. Landscape Architect I	C, D, E, F
	Sr. Office Engineer I	C, D, E, F
	Sr. Planner I	C, D, E, F
	Sr. Project Engineer I	C, D, E, F
	Sr. Public Information Specialist	C, D, E, F
	Sr. ROW Agent I	C, D, E, F
	Sr. Scientist I	C, D, E, F
	Sr. Technical Coordinator I	C, D, E, F
	Sr. Technical Editor	C, D, E, F
	Survey Manager I	C, D, E, F
	Project Control Manager	C, D, E
	Project Manager	C, D, E
	Regional Quality Assurance/Safety Manager	C, D, E
	Sr. Applications Developer II	C, D, E
	Sr. Designer II	C, D, E
	Sr. Engineer II	C, D, E
	Sr. Estimator/Scheduler II	C, D, E
	Sr. GIS Analyst II	C, D, E
	Sr. ITS Analyst II	C, D, E
	Sr. Landscape Architect II	C, D, E
	Sr. Office Engineer II	C, D, E
	Sr. Planner II	C, D, E
	Sr. Project Engineer II	C, D, E
	Sr. ROW Agent II	C, D, E
	Sr. Scientist II	C, D, E
	Sr. Technical Coordinator II	C, D, E
	Survey Manager II	C, D, E
	Group Manager	B, C, D
	Information Technology Manager	B, C, D
	Program Manager	B, C, D
	Resident Engineer	B, C, D
	Sr. Architect III	B, C, D
	Sr. Construction Manager	B, C, D
	Sr. Engineer III	B, C, D
	Sr. Estimator/Scheduler III	B, C, D
	Sr. GIS Analyst III	B, C, D
	Sr. ITS Analyst III	B, C, D
	Sr. Landscape Architect III	B, C, D
	Sr. Planner III	B, C, D
	Sr. Project Manager	B, C, D
	Sr. ROW Agent III	B, C, D
	Sr. Scientist III	B, C, D