



WORK AUTHORIZATION NO. 2

**WILLIAMSON COUNTY ROAD BOND PROJECT:
SEWARD JUNCTION SOUTHEAST**

This Work Authorization No. 2 is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated September 25, 2014 ("Contract") and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and Aguirre-Fields, LP (the "Engineer").

Part 1. The County will provide the following Services set forth in Attachment "A" of this Work Authorization.

Part 2. The Engineer will provide the following Engineering Services set forth in Attachment "B" of this Work Authorization.

Part 3. The maximum amount payable for services under this Work Authorization without modification is \$51,599.00.

Part 4. Payment to the Engineer for the services established under this Work Authorization shall be made in accordance with the Contract.

Part 5. This Work Authorization shall become effective on the date of final acceptance and full execution of the parties hereto and shall terminate on March 31, 2019. The Engineering Services set forth in Attachment "C" of this Work Authorization shall be fully completed on or before said date unless extended by a Supplemental Work Authorization.

Part 6. This Work Authorization does not waive the parties' responsibilities and obligations provided under the Contract.

Part 7. This Work Authorization is hereby accepted and acknowledged below.

IN WITNESS WHERE OF, the County and the Engineer have executed this Work Authorization, in duplicate, to be effective as of the date of the last party's execution below.

ENGINEER: Aguirre, LLC – General Partner

COUNTY:

By: 
Signature

By: _____
Signature

Oscar R. Aguirre, P.E.
Printed Name

Printed Name

President
Title

Title

10/02/2017
Date

Date

*OK
10/11/17*

LIST OF ATTACHMENTS

Attachment A, Services to be provided by the County

Attachment B, Services to be provided by Engineer

Attachment C, Work Schedule

Attachment D, Fee Schedule

**ATTACHMENT A to WA#2
SERVICES TO BE PROVIDED BY THE COUNTY**

I. GENERAL REQUIREMENTS

The County will prepare or provide:

- A. Name, address and phone number of the County's project manager.
- B. Review of recommendations offered by the Engineer and approve or reject any or all work performed under this contract.
- C. Review of progress of work and final acceptance of all documents.
- D. Processing of all periodic payment requests submitted by the Engineer.
- E. Submit of documentation to regulatory agencies for review and comment when specified.
- F. Assistance in the coordination and scheduling of site visits.

II. SOCIAL, ECONOMIC AND ENVIRONMENTAL STUDIES, AND PUBLIC INVOLVEMENT

The County will:

- A. Any Environmental Assessment, documentation or previously completed documentation.
- B. Lead and assist the Engineer with Right of entry from public or private land owners to allow surveying, environmental, engineering, or geotechnical services to be performed. Right of entry permission shall be written and signed by the land owner. Letters or other materials seeking right of entry shall contain explicit reference to the kinds of activities for which right of entry is requested and an indication of the impacts (if any) that will result from performance of environmental services.
- C. Lead all coordination and public information associated with the public or private land owners/developers.

III. UTILITY ENGINEERING INVESTIGATION (CURRENTLY SUBSURFACE UTILITY ENGINEERING)

The County will prepare or provide:

- A. Available existing right of way plans for the proposed project location.
- B. All ROW appraisals and acquisitions, if applicable.
- C. All coordination and meetings with utility companies for any necessary relocation.
- D. All plans for future developments and/or associated easements in the project area.

IV. DESIGN SURVEYS AND CONSTRUCTION SURVEYS

The County will prepare or provide:

- A. Any construction surveys required.

V. SIGNING, PAVEMENT MARKINGS AND SIGNALIZATION (PERMANENT)

The County will prepare or provide:

- A. Available traffic counts, traffic projections and accident data, if applicable.

VI. PROJECT MANAGEMENT AND ADMINISTRATION

The County will:

- A. Review, approve and update Project Design Criteria.
- B. Review deliverables and provide consolidated review comments to be addressed by the Engineer.

VII. ADDITIONAL RESPONSIBILITIES

The County will prepare or provide:

- A. Interface with local, regional, State and Federal agencies or other entities on behalf of Engineer.
- B. Timely reviews and decisions to enable the Engineer to maintain the project schedule as approved by the County.

**ATTACHMENT B to WA#2
SERVICES TO BE PROVIDED BY THE ENGINEER
CONSTRUCTION PHASE SERVICES FOR
SEWARD JUNCTION SOUTHEAST**

PROJECT DESCRIPTION

Existing Facility

The 1.057 mile project limits are from US 183 east along CR 259 and from south of the CR 259 and CR 266 intersection north to SH 29. The existing county roads consist of 2-11 foot lanes without shoulders.

Proposed Facility

The proposed design is to construct 2 lanes of a future six lane divided minor arterial roadway. The construction activities consist of; HMAC pavement, concrete curb and gutter, drainage structures, water quality BMPs, bridges, signing and pavement markings. Additionally proposed ROW and drainage easements will be acquired.

1. CONSTRUCTION PHASE SERVICES (FC 309)

- a. **REQUESTS FOR INFORMATION - RFIs (20 RFIs maximum):**
 - Attend up to 4 site visits and/or meetings to gather data and information for RFI responses (6 hours each). Documentation of the meetings will be included as time towards RFIs.
 - Respond to Contractor RFIs and provide design clarifications, additional information, and additional data to the GEC as required (1 hours each).

- b. **REVIEW CONTRACTOR SUBMITTALS & SHOP DRAWINGS (20 sheets maximum):**
 - Review Contractor submittals and shop drawings received from the GEC. Shop drawings will be reviewed for general conformance with the plans and specifications and will include providing stamped concurrence, exceptions or resubmittal notations to the Contractor. Since the structures on this job are cast in place, the assumption is made that there will be no more than 10 sheets per bridge associated with forms or erection shoring for review (46 hours maximum).

- c. **PLAN REVISIONS (20 sheets maximum):**
 - Engineer will provide minor revisions to plans in order to address differing site conditions, third party accommodation, or other owner directed changes. Revisions to plans will include revision clouds around any changes, will include descriptions and quantities of changes, CAD files, and will be sealed by a

professional engineer. Minor plans revisions will not exceed the number of sheets (20) or the associated time (80 hours) whichever is consumed first.

- d. ATTEND MEETINGS (4 meetings):
 - Engineer will attend up to 4 meetings at the project site or Williamson County representative office, as requested (6 hours each).

- e. WATER QUALITY BMP CERTIFICATION: (16 hours for 2 trips)
 - Engineer will visit the project site and review the construction work related to adherence to the permanent water quality design plans. Provide a list of issues to be corrected to the GEC, if necessary.
 - Visual inspection will include spot checking the following items: filter strip slopes (ditch front slopes), filter strip length (flowline offsets roughly speaking), grading, and establishment of vegetation. The Engineer will develop a punch list of items that appeared in need of attention, then return to finalize with the contractor after completion.
 - Once above is verified as correct, the Engineer will prepare and submit to TCEQ a letter certifying that the permanent BMPs were constructed as designed.

- f. PEC Pond Construction Phase Services – FC 309: This phase of the project will commence after approval of final plans for construction. The basic services for this phase include:
 - Attend Pre-Construction Conference
 - Review submittals, prepare change orders, and prepare RFI's as necessary
 - Site visits as requested (4 max)

2. DELIVERABLES

- a. All contract documents, including hard copies and electronic files, shall be turned over to the County at each milestone and at the completion of the project. Documents shall be posted to the County's project management database as requested.

3. PROJECT MANAGEMENT:

- a. The Engineer will provide for project documentation, progress reports, invoices and coordination with the GEC.
- b. The Engineer will provide for project documentation, progress reports, invoices and coordination with sub consultants.

ATTACHMENT C
WORK SCHEDULE

SEWARD JUNCTION SOUTHEAST
W442

Act ID	Description	Reqs Dur	Early Start	Early Finish	TOUW Hour	%	Resource	Identified Cost	2017	2018	2019
AA1070	BID PHASE SERVICES EXTENSION [W442]	258	16FEB17	25MAR18	0	0		0.00			
AA1020	CONSTRUCTION PHASE SERVICES [W442]	258	27MAR18	25MAR19	0	0		0.00			

CONSTRUCTION PHASE SERVICES [W442]

BID PHASE SERVICES EXTENSION [W442]

Start date	16FEB17
Finish date	25MAR19
Data date	16FEB17
Run date	02OCT17
Page number	1A

- Early bar
- Progress bar
- Critical bar
- Summary bar
- Start milestone point
- Finish milestone point

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ACURRE & FIELDS, LP

WILLIAMSON COUNTY, TEXAS
PRECINCT 2
SEWARD JUNCTION SOUTHEAST
WORK AUTHORIZATION NO. 2
1: 26801-1 > CONTRACT > SCHEDULE > ATTACHMENT C W42

ATTACHMENT D CONSTRUCTION PHASE SERVICES FEE SCHEDULE
 METHOD OF PAYMENT, TIME AND MATERIALS

AGUIRRE AND FIELDS, LP
 WA#2

WILLIAMSON COUNTY
 SEWARD JUNCTION SOUTHEAST

FEE SCHEDULE SUMMARY

Project	AFPL	CP&Y	STEGER BIZZELLI	Total
WA 1	\$37,348.00	\$8,371.00	\$5,880.00	\$51,599.00

FC	TASK NAME	AFPL	CP&Y	S&B	TOTAL
FC 110	ROUTE AND DESIGN STUDIES (FC110)				\$0.00
FC 120	ENVIRONMENTAL STUDIES AND PUBLIC INVOLVEMENT (FC 120)				\$0.00
FC 130	RIGHT OF WAY DATA & UTILITIES (FC 130)				\$0.00
FC 150	FIELD SURVEYING (FC 150)				\$0.00
FC 160	ROADWAY DESIGN CONTROLS (FC 160)				\$0.00
FC 161	DRAINAGE (FC 161)		\$8,371.00		\$8,371.00
FC 162	SIGNING, PVMT, MARK, & SIGNALS (FC162)				\$0.00
FC 163	MISCELLANEOUS (ROADWAY) (FC 163)				\$0.00
FC 164	MANAGING CONTRACTED PER SERVICES & SURVEY CONTRACTS (FC 164)	\$11,040.00			\$11,040.00
FC 170	BRIDGE DESIGN (FC 170)	\$25,902.00		\$5,880.00	\$25,902.00
FC 309	CONSTRUCTION PHASE SERVICES (FC 309)	\$406.00			\$406.00
DIRECT	DIRECT EXPENSES				
	TOTALS	\$37,348.00	\$8,371.00	\$5,880.00	\$51,599.00

TASK DESCRIPTION	SENIOR PROJECT MANAGER	PROJECT MANAGER	QUALITY MANAGER	SENIOR ENGINEER	STRUCT ENGINEER	PROJECT ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEER TECHNICIAN	SENIOR CADD OPERATOR	CADD OPERATOR	ADMIN / CLERICAL	TOTAL LABOR HOURS & COSTS	NO. OF DWGS	LABOR HRS PER SHEET
END PRIME SERVICES (FC 300)														
A. RFI RESEARCH AND SITE VISITS - 4 EA		6					6					24		N/A
A. RFI REQUESTS FOR INFORMATION (RFI) - 20EA		2		1			4	2	2	4		20		N/A
B. REVIEW CONTRACT SUBMITTALS & SHOP DRAWINGS - 20 SHEETS		8					12					48		2
C. PLAN REVISIONS FOR FIELD CHANGES - 20 SHEETS		6					20	8	10	14		50		4
D. ATTEND MEETINGS - 4 EA AT PROJECT SITE OR WILCO GEC		6					6					24		N/A
E. COORDINATION FOR WATER QUALITY BMP CERTIFICATION		4					4					8		N/A
HOURS SUB-TOTALS	32	37	8	1	31	42	48	10	12	18	0	202		
CONTRACT RATE PER HOUR	\$201.00	\$188.00	\$150.00	\$150.00	\$132.00	\$132.00	\$102.00	\$128.00	\$64.00	\$68.00	\$72.00			
TOTAL LABOR COSTS	\$6,432.00	\$6,956.00	\$1,200.00	\$150.00	\$4,092.00	\$5,544.00	\$4,896.00	\$1,280.00	\$768.00	\$1,224.00	\$0.00	\$25,802.00		
% CONTRIBUTION OF STAFFING	3.2%	15.8%	4.0%	0.3%	15.3%	20.8%	23.8%	5.0%	5.1%	8.9%	0.0%			
SUBTOTAL (FC 300)												\$25,802.00		

SUMMARY	SENIOR PROJECT MANAGER	PROJECT MANAGER	QUALITY MANAGER	SENIOR ENGINEER	STRUCT ENGINEER	PROJECT ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEER TECHNICIAN	SENIOR CADD OPERATOR	CADD OPERATOR	ADMIN / CLERICAL	TOTAL HOURS BY FC	TOTAL COSTS BY FC
% UTILIZATION	0.0%	27.0%	2.8%	0.2%	7.7%	28.4%	11.8%	2.8%	3.0%	4.3%	11.8%		
MANAGING CONTRACTED PER SERVICES & SURVEY CONTRACTS (FC 104)												64	\$11,040.00
CONSTRUCTION PHASE SERVICES (FC 300)												202	\$25,802.00
SUBTOTAL LABOR EXPENSES												266	\$36,842.00
OTHER DIRECT EXPENSES	# OF UNITS	COORDINATOR											
Messages (6 ea/miss) (current state rate)	180		MILE										\$101.00
Per diem	4		DAY										\$120.00
Overnight Meal (other state) (each)	2		EACH										\$30.00
Swampson Mail (overseas) (each)	23		EACH										\$50.00
PHOTOCOPIES (11X17)	700		EACH										\$105.00
SUBTOTAL DIRECT EXPENSES													\$406.00
TOTALS													
TOTAL COSTS FOR PRIME ONLY													\$36,842.00
NON-SALARY (OTHER DIRECT EXPENSES) FOR PRIME ONLY													\$406.00
AFLP TOTAL													\$37,248.00

Exhibit D

**Seward Junction Southeast
US 183 / CR 259 to SH 29 / CR 266
Williamson County**

Fee Schedule/Budget for CP&Y, Inc.

Task Description	No. of Sheets	Project Manager	Senior Engineer	Project Engineer	Design Engineer	E.I.T.	Senior CADD Operator	Chief Hydrologist	Environ Manager	Senior Environ Specialist	Environ Specialist	GIS Specialist	Admin / Clerical	Total Labor Hours	Total Direct Labor Costs	
FC 00 - CONSTRUCTION PHASE SERVICES FOR CR 259 DRAINAGE																
164.1 PROJECT MANAGEMENT (12 MONTHS)																
1A Review for Information & RFI's at 2 hrs each	N/A			2	10									12	\$ 1,480.00	
1B Review Construction Sheet & Shop drawings	N/A			2	10									14	\$ 1,871.00	
1C Plan Reviews and Field Changes	N/A			4	8									12	\$ 1,521.00	
1D Attend Meetings	N/A			6	8									16	\$ 1,954.00	
1E BMP Inspection (1 visit to verify construction BMPs, incl. documentation & coordination)	N/A			18	18									66	\$ 8,371.00	
FC 00 - SUBTOTALS																
HOURS SUBTOTALS				14	55									64	\$ 8,371.00	
LABOR COST SUBTOTALS		\$ 214.00	\$ 177.00	\$ 2,030.00	\$ 5,950.00	\$	\$	\$	\$	\$	\$	\$	\$ 70.00	\$	\$ 8,371.00	
															SUBTOTAL LABOR COSTS	\$ 8,371.00

PEC Pond - Estimated Fee Schedule

Task and Description	Engineer (Principal)	Senior Engineer	Engineer (PE)	Registered Surveyor	Engineer in Training	Senior Technician	Clerical	2-Man Survey	Total Estimate
	233	216	161	134	133	128	72	160	
Construction Phase Services (FC 309)	Hourly Rate:								
a. Attend Pre-Construction Conference			4		4				1,176
b. Prepare change orders and RFI's as necessary			8		8				2,352
c. Site Visits (4 max)			8		8				2,352
Subtotal Hours:	0	0	20	0	20	0	0	0	40
Subtotal Fees:	\$0	\$0	\$3,220	\$0	\$2,660	\$0	\$0	\$0	\$5,880
TOTAL FEES:	\$0	\$0	\$3,220	\$0	\$2,660	\$0	\$0	\$0	\$5,880