



**SUPPLEMENTAL WORK AUTHORIZATION NO. 4  
TO  
WORK AUTHORIZATION NO. 1**

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

This Supplemental Work Authorization No. 4 to Work Authorization No. 1 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").

WHEREAS, the County and the Engineer executed Work Authorization No. 1 dated effective September 26, 2014 (the "Work Authorization");

WHEREAS, pursuant to Article 14 of the Contract, amendments, changes and modifications to a fully executed Work Authorization shall be made in the form of a Supplemental Work Authorization; and

WHEREAS, it has become necessary to amend, change and modify the Work Authorization.

**AGREEMENT**

NOW, THEREFORE, premises considered, the County and the Engineer agree that the Work Authorization shall be amended, changed and modified as follows:

- I. The Services to be provided by the County that were set out in the original Attachment "A" of the Work Authorization.
- II. The Services to be Provided by the Engineer that were set out in the original Attachment "B" of the Work Authorization are hereby amended, changed and modified as shown in the attached revised Attachment "B-4"
- III. The Work Authorization shall become effective August 05, 2017 and shall terminate on March 31, 2018. The Services to be provided by the Engineer shall be fully completed on or before said date unless extended by an additional Supplemental Work Authorization. The revised Work Schedule is attached hereto as Attachment "C-4"
- IV. The maximum amount payable for services under the Work Authorization is hereby increased from \$714,999.00 to \$842,885.00. The revised Fee Schedule is attached hereto as Attachment "D-4".

Except as otherwise amended by prior or future Supplemental Work Authorizations, all other terms of the Work Authorization are unchanged and will remain in full force and effect.

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

**IN WITNESS WHEREOF**, the County and the Engineer have executed this Supplemental 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

#### LIST OF ATTACHMENTS

Attachment B-4, Services to be Provided by Engineer

Attachment C-4, Work Schedule

Attachment D-4, Fee Schedule

OK  
m 12/11/17

**ATTACHMENT B-4**  
**SERVICES TO BE PROVIDED BY THE ENGINEER**  
**DESIGN 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. Work excludes any geotechnical updates, archeological revisions, channel alignment and easement revisions, and roadway realignment. PEC pond plans will be prepared a separate PS&E package to the Seward Junction Southeast Plans.

**1. DESIGN PHASE SERVICES**

- a. **PLAN REVISIONS FOR FIELD CHANGES – Aguirre-Fields FC 160.5 (54 sheets) and CP&Y FC 161 ( 15 sheets):**
  - Engineer will provide minor revisions to plans in order to address changes requested by landowners' during ROW acquisition process since final plans were submitted. Design Services for plan revisions will include:
    1. Revise plans to add 4 new driveways along the north side of proposed CR 259 between STA 181+00 and STA 191+00.
    2. Revise plans to leave a segment of the existing CR 259 in place and add a driveway for property access along the north side of CR 250 in the vicinity of STA 210+00.
    3. Plan revisions for items 1 & 2 will include updates to index (1), project layouts (1), survey data sheets (3), roadway quantity sheets (2), driveway summary sheet (1), removal summary (1), drainage summary (1), pavement marking summary (1), erosion control summary (1), earthwork summary (1), traffic control plan phase sheets (10), plan and profile sheets (4), intersection layout (1), new driveway plan

and profile sheet (3), drainage area map (1), internal drainage area maps (4), drainage plan and profiles (4), ditch tables (1), hydraulic data sheet (1), signing and pavement marking plan (4), erosion control layouts (4), design cross sections (4), and drainage report revisions.

4. Revise current estimate pricing to reflect market changes since last final plans submittal.
  5. Revisions for items 2, 3, & 4 exclude changes to proposed or existing ROW and easements, bridge structures, driveway details, typical sections, channel alignments, proposed alignment, proposed profile, general notes, bid items/descriptive codes, specifications, and cross slopes.
- b. PEC POND DESIGN FOR CR 259 – Steger Bizzell FC 161, FC 150, & FC 309 (separate Package):
- Steger Bizzell (“Engineer” or “Surveyor”) shall provide surveying, design, construction plan preparation, and permitting services for the reconfiguration of an existing water quality and detention pond located in eastern Liberty Hill, Texas.
    1. The pond is located on a tract of land that is owned by Pedernales Electric Cooperative, Inc. (“PEC”) as evidenced by Document # 2003039417 of the Official Records of Williamson County, and is also referred to as Lot 3 of Seward Junction Commercial Park Subdivision of the Plat Records of Williamson County. The tract is entirely within the city limits of Liberty Hill and entirely within the Edwards Aquifer Contributing Zone. The existing Contributing Zone Plan is Permit # 11-08030503, filed on or about March 2008.
    2. Surveying Services – FC 150: This phase of the project will commence after the Client has signed and executed this contract. The basic services for this phase include:
      - a. Obtain right-of-entry authorization from PEC
      - b. Conduct pre-field operations (Texas811, OneCall)
      - c. Perform topographic field surveying
      - d. Office-process, draft, DTM

- e. Perform internal QA/QC
- 3. Design Phase Services – FC 161: One draft and one final plan submittal is included in this scope of work. The basic services for this phase include:
  - a. Obtain and review related project data, reports and studies such as the original Contributing Zone Plan and latest revision of the CR 259 roadway improvements PS&E.
  - b. Prepare construction drawings and specifications for the reconfiguration of the pond in accordance with the latest Texas Commission on Environmental Quality (“TECQ”) technical guidance manual and generally accepted engineering practices.
  - c. Analyze roadway improvement plans and coordinate minor adjustments to the pond and/or roadway design.
  - d. Prepare project quantities and a probable cost of construction for the pond reconfiguration.
  - e. Submit plans for review. Modify plans based on comments received.
  - f. Submit plans and Stormwater Permit to City of Liberty Hill staff for review. The submittal fee shall be paid directly by Client. Modify plans based on comments received.
  - g. Prepare and submit a Contributing Zone Plan Modification to TCEQ. The TCEQ submittal fee is estimated at \$5000.00. This scope of work assumes that a new Geologic Assessment will not be required by TCEQ.
- 4. Bid 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:
  - a. Respond to Bidder questions as necessary

5. Exclusions: The following services are specifically excluded from this scope of work:

- a. Utility relocation design
- b. Surveying of subsurface utilities, except where uncovered by others
- c. Parking lot design
- d. Geotechnical investigation
- e. Geologic Assessment
- f. Contract Document / Project Manual preparation
- g. Construction Inspection
- h. Boundary survey or property owner determination
- i. Right-of-way or easement acquisition, including preparation of field notes and legal descriptions
- j. Work in any area outside of the Project Limits
- k. Construction Phase services

c. POND EASEMENT FIELD NOTES – BOWMAN FC 150:

- Bowman will revise existing field notes or prepare new field notes to provide legal descriptions for the vacation of the old pond and storm sewer easements and dedication of a new pond and storm sewer easement on the BLW tract. This task is limited to four (4) total sets of field notes.

d. ENVIRONMENTAL SERVICES – CP&Y FC 120:

- The Engineer shall perform environmental services required to obtain environmental clearance for the proposed Channel E and F associated with the Seward Junction Southeast Project. This scope of work is a supplement to work previously performed for Williamson County's (County) proposed improvements to Seward Junction between US Highway (US) 183 and State Highway (SH) 29 east of Liberty Hill, Williamson County, Texas.

1. FC 120.1. WATERS OF THE U.S.

Task 1 – TxRAM Functional Assessment

- a. Conduct a baseline aquatic resource analysis documenting existing conditions with the Texas Rapid Assessment Method (TxRAM), which is a wetland and stream conditional assessment model.

This shall include preparation of TxRAM Stream Data Sheets, Scoring Sheets, associated exhibits, and the Aquatic Resource Compensation Calculator. Should wetland areas be encountered, TxRAM Wetland Data Sheets, Wetland Scoring Sheets, associated exhibits, and Wetland Final Scoring Sheet for Evaluating Proposed Mitigation/Impact Activities Sheet would be completed. The output from TxRAM will be used to calculate adverse impacts and compensatory mitigation required by USACE.

**Task 2 - USACE Pre-Construction Notification**

- b. Pre-Application Meeting – the Engineer shall attend one (1) pre-application meeting with the USACE to discuss the project impacts, avoidance/minimization measures, permitting requirements, and potential mitigation options, if required.
- c. PCN Preparation - the Engineer shall prepare and submit a PCN to the USACE in accordance with NWP General Condition 32. The USACE Fort Worth District application submittal form for NWP #14 will be utilized for this task. The submittal will include the results of the threatened/endangered species assessment, cultural resource assessment, waters of the U.S. assessment, plan and section view drawings and TCEQ Section 401 Water Quality Certification. This task also includes responding to USACE comments and requests for additional information.
- d. Note: If it is determined that a Section 404 Individual Permit or detailed permittee-responsible mitigation planning is required, those services would be conducted under a supplemental agreement.

**e. DELIVERABLES**

- All contract documents, including hard copies and electronic files, shall be turned over to the County. Documents shall be posted to the County's project management database as requested.
- PS&E Package updates as outline in Section a. above
- Topographic Field Exhibit for PEC Pond
- PS&E Package for PEC Pond
- Contributing Zone Plan Modification Application for PEC Pond
- BLW Tract Pond and Storm Sewer Easement Notes
- PCN for Channels E&F as outlined above

**f. PROJECT MANAGEMENT – FC 164**

- The Engineer will attend up to 2 review and/or coordination meetings with the GEC. (Aguirre-Fields), (CP&Y FC 166 – includes attending 1 meeting)
- Engineer will attend up to 2 meetings at the project site or Williamson County representative office, as requested.
- The Engineer will provide for project documentation, progress reports, invoices and GEC / County / Sub-consultant coordination. (Aguirre-Fields assume 5 hours per month for 7 months)
- The Engineer will provide for sub-consultant coordination management and review coordination with GEC. (Aguirre-Fields assume 32 hours for review coordination)





ATTACHMENT D-4 SUPPLEMENTAL FEE SCHEDULE  
METHOD OF PAYMENT: TIME AND MATERIALS

AGUIRRE & FIELDS, LP  
WA#1 SWA#4

WILLIAMSON COUNTY  
SEWARD JUNCTION SOUTHEAST

FEE SCHEDULE SUMMARY

| Project | AFLP        | CP&Y        | S&B         | BOWMAN     | Total        |
|---------|-------------|-------------|-------------|------------|--------------|
| WA 1    | \$36,243.00 | \$26,493.00 | \$57,470.00 | \$7,680.00 | \$127,886.00 |

| FC     | TASK NAME                                                    | AFLP        | CP&Y        | S&B         | BCE        | TOTAL        |
|--------|--------------------------------------------------------------|-------------|-------------|-------------|------------|--------------|
| FC 110 | ROUTE AND DESIGN STUDIES (FC110)                             |             |             |             |            | \$0.00       |
| FC 120 | ENVIRONMENTAL STUDIES AND PUBLIC INVOLVEMENT (FC 120)        |             | \$13,892.00 |             |            | \$13,892.00  |
| FC 130 | RIGHT OF WAY DATA & UTILITIES (FC130)                        |             |             |             |            | \$0.00       |
| FC 150 | FIELD SURVEYING (FC 150)                                     |             |             | \$3,096.00  | \$7,680.00 | \$10,776.00  |
| FC 160 | ROADWAY DESIGN CONTROLS (FC 160)                             |             |             |             |            | \$16,959.00  |
| FC 161 | DRAINAGE (FC 161)                                            | \$16,959.00 |             |             |            | \$16,959.00  |
| FC 162 | SIGNING, PMT, MARK., & SIGNALS (FC162)                       |             | \$11,325.00 | \$52,022.00 |            | \$63,347.00  |
| FC 163 | MISCELLANEOUS (ROADWAY) (FC 163)                             |             |             |             |            | \$0.00       |
| FC 184 | MANAGING CONTRACTED PER SERVICES & SURVEY CONTRACTS (FC 184) | \$18,624.00 | \$388.00    |             |            | \$18,992.00  |
| FC 170 | BRIDGE DESIGN (FC 170)                                       |             |             |             |            | \$0.00       |
| FC 308 | CONSTRUCTION PHASE SERVICES (FC 308)                         |             |             | \$2,352.00  |            | \$2,352.00   |
| DIRECT | DIRECT EXPENSES                                              | \$660.00    | \$908.00    |             |            | \$1,568.00   |
|        | TOTAL                                                        | \$36,243.00 | \$26,493.00 | \$57,470.00 | \$7,680.00 | \$127,886.00 |

| SUMMARY                                                      |  | SENIOR PROJECT MANAGER | PROJECT MANAGER | QUALITY MANAGER | SENIOR ENGINEER | STRUCT ENGINEER | PROJECT ENGINEER | ENGINEER TRAINING | SENIOR ENGINEER TECHNICIAN | SENIOR OPERATOR | CADD OPERATOR | ADMIN / CLERICAL |     |
|--------------------------------------------------------------|--|------------------------|-----------------|-----------------|-----------------|-----------------|------------------|-------------------|----------------------------|-----------------|---------------|------------------|-----|
| % UTILIZATION                                                |  | 0.0%                   | 48.8%           | 5.4%            | 0.5%            | 0.0%            | 57.4%            | 31.1%             | 7.1%                       | 14.3%           | 28.6%         | 6.1%             | 259 |
| FUNCTION CODE                                                |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| ROADWAY DESIGN CONTROLS (FC 180)                             |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| MANAGING CONTRACTED PER SERVICES & SURVEY CONTRACTS (FC 164) |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| TOTAL COSTS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$18,850.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$19,624.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$21,111.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| TOTAL HOURS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 162                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 131                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 266                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| TOTAL COSTS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$18,850.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$19,624.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$21,111.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| TOTAL HOURS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 162                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 131                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 266                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| TOTAL COSTS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$18,850.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$19,624.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$21,111.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| TOTAL HOURS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 162                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 131                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 266                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| TOTAL COSTS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$18,850.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$19,624.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
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| TOTAL HOURS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
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| 131                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 266                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| TOTAL COSTS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
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| \$19,624.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
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| \$19,624.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$21,111.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
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| \$21,111.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| TOTAL HOURS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
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| TOTAL COSTS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$18,850.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
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| TOTAL COSTS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
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| \$19,624.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$21,111.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
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| 266                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| TOTAL COSTS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$18,850.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$19,624.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$21,111.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| TOTAL HOURS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
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| 266                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| TOTAL COSTS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$18,850.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$19,624.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$21,111.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| TOTAL HOURS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 162                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 131                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 266                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
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| \$18,850.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$19,624.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$21,111.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| TOTAL HOURS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 162                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 131                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 266                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| TOTAL COSTS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$18,850.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$19,624.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$21,111.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| TOTAL HOURS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 162                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 131                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 266                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| TOTAL COSTS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$18,850.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$19,624.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$21,111.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| TOTAL HOURS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 162                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 131                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 266                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| TOTAL COSTS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$18,850.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$19,624.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$21,111.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| TOTAL HOURS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 162                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 131                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 266                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| TOTAL COSTS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$18,850.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$19,624.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$21,111.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| TOTAL HOURS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 162                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 131                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 266                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| TOTAL COSTS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$18,850.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$19,624.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$21,111.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| TOTAL HOURS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 162                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 131                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 266                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| TOTAL COSTS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$18,850.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$19,624.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$21,111.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| TOTAL HOURS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 162                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 131                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| 266                                                          |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| TOTAL COSTS BY FC                                            |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$18,850.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$19,624.00                                                  |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |
| \$21,1                                                       |  |                        |                 |                 |                 |                 |                  |                   |                            |                 |               |                  |     |

|               |                                                          |             |
|---------------|----------------------------------------------------------|-------------|
| <b>TOTALS</b> |                                                          |             |
|               | <b>TOTAL COSTS FOR PRIME ONLY</b>                        | \$35,943.00 |
|               | <b>NON-SALARY (OTHER DIRECT EXPENSES) FOR PRIME ONLY</b> | \$690.00    |
|               | <b>NET TOTAL</b>                                         | \$36,633.00 |



**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 CAD Operator | Chief Hydrologist | Environ Manager | Senior Environ Specialist | Environ Specialist | GIS Specialist | Admin / Clerical | Total Labor Hours | Total Direct Labor Costs |
|                                               |               |                 |                 |                  |                 |          |                     |                   |                 |                           |                    |                |                  |                   |                          |
| 1. DESIGN DRAMA SANDHILL (PC 187)             |               |                 |                 |                  |                 |          |                     |                   |                 |                           |                    |                |                  |                   |                          |
| a. Revise Plans                               |               |                 |                 |                  |                 |          |                     |                   |                 |                           |                    |                |                  |                   |                          |
| HYDROLOGIC ANALYSES (4 Driveway culverts)     | N/A           | 1               | 1               |                  | 2               | 6        |                     |                   |                 |                           |                    |                |                  | 12                | 1,395.00                 |
| CREATE EXTERIOR DRAINAGE AREA MAP             | 1             |                 |                 |                  | 2               | 4        |                     |                   |                 |                           |                    |                |                  | 4                 | 422.00                   |
| DITCH CAPACITIES AND TABLES                   | 1             |                 | 1               |                  | 1               | 4        |                     |                   |                 |                           |                    |                |                  | 10                | 1,068.00                 |
| DRIVEWAY / MEDIAN X-OVER CULVERTS (4)         | 1             | 1               | 1               |                  | 2               | 6        | 12                  |                   |                 |                           |                    |                |                  | 24                | 2,881.00                 |
| SUMMARY OF DRAINAGE QUANTITIES                | 1             |                 |                 |                  | 1               | 2        |                     |                   |                 |                           |                    |                |                  | 4                 | 400.00                   |
| MISCELLANEOUS DRAINAGE DETAILS                | 1             |                 | 1               |                  | 1               | 4        |                     |                   |                 |                           |                    |                |                  | 7                 | 878.00                   |
| ASSEMBLE APPLICABLE STANDARDS                 | 1             |                 | 1               |                  | 1               | 2        |                     |                   |                 |                           |                    |                |                  | 3                 | 303.00                   |
| SWMP PLANS AND SUMMARY                        | 3             |                 | 1               |                  | 2               | 2        |                     |                   |                 |                           |                    |                |                  | 5                 | 589.00                   |
| b. WATER QUALITY AND BMP FEATURE DESIGN       | N/A           |                 |                 |                  |                 | 2        |                     |                   |                 |                           |                    |                |                  | 3                 | 303.00                   |
| c. WATER QUALITY FEATURE LAYOUT SHEETS        | N/A           |                 | 1               |                  | 1               | 4        |                     |                   |                 |                           |                    |                |                  | 8                 | 995.00                   |
| d. CONTRIBUTING ZONE PLAN AND COORDINATION    | N/A           |                 | 1               |                  | 1               | 1        |                     |                   |                 |                           |                    |                |                  | 4                 | 533.00                   |
| ASSEMBLE APPLICABLE STANDARDS                 | N/A           |                 | 1               |                  | 1               | 4        |                     |                   |                 |                           |                    |                |                  | 6                 | 643.00                   |
| b. Attend Meetings                            |               | 1               | 1               | 2                | 4               |          |                     |                   |                 |                           |                    |                |                  | 8                 | 1,157.00                 |
| FC 181 - SUBTOTALS                            |               | 4               | 6               | 4                | 19              | 37       | 26                  |                   |                 |                           |                    |                |                  | 96                | 11,325.00                |
| HOURS SUBTOTALS                               |               | 856.00          | 1,416.00        | 580.00           | 2,281.00        | 3,404.00 | 2,808.00            |                   |                 |                           |                    |                |                  | 96                |                          |
| LABOR COST SUBTOTALS                          |               |                 |                 |                  |                 |          |                     |                   |                 |                           |                    |                |                  |                   |                          |
| 2. PROJECT MANAGEMENT (PC 164)                |               |                 |                 |                  |                 |          |                     |                   |                 |                           |                    |                |                  |                   |                          |
| a. PROGRESS REPORTS, DOCS, INV/CHG, GEC COORD |               |                 |                 |                  |                 |          |                     |                   |                 |                           |                    |                |                  |                   |                          |
|                                               | N/A           |                 |                 |                  |                 | 4        |                     |                   |                 |                           |                    |                |                  | 4                 | 568.00                   |
|                                               | N/A           |                 |                 |                  |                 |          |                     |                   |                 |                           |                    |                |                  |                   |                          |
|                                               | N/A           |                 |                 |                  |                 |          |                     |                   |                 |                           |                    |                |                  |                   |                          |
|                                               | N/A           |                 |                 |                  |                 |          |                     |                   |                 |                           |                    |                |                  |                   |                          |
| FC 164 - SUBTOTALS                            |               |                 |                 |                  |                 | 4        |                     |                   |                 |                           |                    |                |                  | 4                 | 568.00                   |
| HOURS SUBTOTALS                               |               | 0               | 0               | 0                | 0               | 4        | 0                   | 0                 | 0               | 0                         | 0                  | 0              | 0                | 4                 |                          |
| LABOR COST SUBTOTALS                          |               | 3               | 5               | 3                | 5               | 368.00   | 3                   | 5                 | 5               | 5                         | 5                  | 3              | 5                | 4                 | 368.00                   |
| SUM TOTAL LABOR COSTS                         |               |                 |                 |                  |                 |          |                     |                   |                 |                           |                    |                |                  |                   |                          |
| 11,693.00                                     |               |                 |                 |                  |                 |          |                     |                   |                 |                           |                    |                |                  |                   |                          |

**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 | Environ Manager | Senior Environ Specialist | Environ Specialist | GIS Specialist | Admin / Clerical | Total Labor Hours | Total Direct Labor Costs |
|--------------------------------------------------------------|---------------|-----------------|---------------------------|--------------------|----------------|------------------|-------------------|--------------------------|
| <b>FC 120 - SOCIAL, ECONOMIC &amp; ENVIRONMENTAL STUDIES</b> |               |                 |                           |                    |                |                  |                   |                          |
| <b>120.1 WATERS OF THE U.S.</b>                              |               |                 |                           |                    |                |                  |                   |                          |
| 1 TXRAM FUNCTIONAL ASSESSMENT                                | N/A           | 2               | 14                        | 20                 | 10             | 1                | 47                | \$ 4,710.00              |
| 2 USACE PRE-CONSTRUCTION NOTIFICATION                        | N/A           | 14              | 32                        | 24                 | 10             | 1                | 81                | \$ 9,182.00              |
| <b>FC 120 - SUBTOTALS</b>                                    |               |                 |                           |                    |                |                  | 128               | \$ 13,892.00             |
| <b>HOURS SUBTOTALS</b>                                       |               | 16              | 46                        | 44                 | 20             | 2                | 128               | \$ 13,892.00             |
| <b>LABOR COST SUBTOTALS</b>                                  |               | \$ 2,688.00     | \$ 5,336.00               | \$ 4,048.00        | \$ 1,680.00    | \$ 140.00        |                   | \$ 13,892.00             |

**\$ 13,892.00**

| Expense Item                    | Unit   | Unit Cost | Amount    | Total Cost |
|---------------------------------|--------|-----------|-----------|------------|
| 8 1/2" X 11" B/W Paper Copies   | sheet  | \$ 0.10   | 500       | \$ 50.00   |
| 11" X 17" B/W Paper Copies      | sheet  | \$ 0.15   | 50        | \$ 7.50    |
| 8 1/2" X 11" Color Paper Copies | sheet  | \$ 1.00   | 100       | \$ 100.00  |
| 11" X 17" Color Paper Copies    | sheet  | \$ 1.80   | 50        | \$ 90.00   |
| Standard Postage                | letter | \$ 0.45   | 10        | \$ 4.50    |
| Express Mail (Standard)         | each   | \$ 15.00  | 2         | \$ 30.00   |
| Deliveries                      | each   | \$ 25.00  | 4         | \$ 100.00  |
| Rental Car                      | day    | \$ 80.00  | 1         | \$ 80.00   |
| Meals                           | day    | \$ 36.00  | 1         | \$ 36.00   |
| Mileage                         | mile   | \$ 0.550  | 600       | \$ 330.00  |
| GPS Rental                      | day    | \$ 80.00  | 1         | \$ 80.00   |
| <b>SUBTOTAL DIRECT EXPENSES</b> |        |           | \$ 908.00 | \$ 908.00  |

**PEC Pond - Estimated Fee Schedule**

| Task and Description                                      | Engineer<br>(Principal) | Senior<br>Engineer | Engineer<br>(PE) | Registered<br>Surveyor | Engineer<br>in Training | Senior<br>Technician | Clerical     | 2-Man<br>Survey | Total<br>Estimate |
|-----------------------------------------------------------|-------------------------|--------------------|------------------|------------------------|-------------------------|----------------------|--------------|-----------------|-------------------|
| <b>Hourly Rate:</b>                                       | 233                     | 216                | 161              | 134                    | 133                     | 128                  | 72           | 160             |                   |
| <b>Design Phase (FC 161)</b>                              |                         |                    |                  |                        |                         |                      |              |                 |                   |
| a. Obtain related data, plats, plans, studies and reports |                         |                    | 4                |                        | 8                       |                      | 2            |                 | 1,852             |
| b. Prepare construction drawings and specs                | 2                       | 4                  | 40               |                        | 120                     |                      |              |                 | 23,730            |
| c. Proposed roadway coordination                          |                         |                    | 12               |                        | 8                       |                      |              |                 | 2,996             |
| d. Prepare project quantities and cost estimate           |                         |                    | 8                |                        | 8                       |                      |              |                 | 2,352             |
| e. Client review and revisions                            |                         |                    | 12               |                        | 24                      |                      |              |                 | 5,124             |
| f. Prepare and submit SWP to City                         |                         |                    | 8                |                        | 16                      |                      |              |                 | 3,416             |
| g. Prepare and submit C/P Modification                    |                         | 2                  | 16               |                        | 32                      |                      | 4            |                 | 7,552             |
| h. ODE - TCEQ Submittal Fee                               |                         |                    |                  |                        |                         |                      |              |                 | 5,000             |
| <b>Subtotal Hours:</b>                                    | <b>2</b>                | <b>6</b>           | <b>100</b>       | <b>0</b>               | <b>216</b>              | <b>0</b>             | <b>6</b>     | <b>0</b>        | <b>330</b>        |
| <b>Subtotal Fees:</b>                                     | <b>\$466</b>            | <b>\$1,296</b>     | <b>\$16,100</b>  | <b>\$0</b>             | <b>\$28,728</b>         | <b>\$0</b>           | <b>\$432</b> | <b>\$0</b>      | <b>\$52,022</b>   |
| <b>Topographic Surveying Phase (FC 150)</b>               |                         |                    |                  |                        |                         |                      |              |                 |                   |
| a. Obtain right-of-entry                                  |                         |                    | 1                | 1                      |                         |                      | 1            |                 | 367               |
| b. Prefield (Texas811, OneCall)                           |                         |                    |                  | 1                      |                         | 1                    |              |                 | 262               |
| c. Field-Topo                                             |                         |                    |                  |                        |                         |                      |              | 8               | 1,280             |
| d. Office-process draft, DTM                              |                         |                    |                  | 2                      |                         | 8                    |              |                 | 1,292             |
| e. QA/QC                                                  |                         |                    |                  | 1                      |                         | 1                    |              |                 | 262               |
| <b>Subtotal Hours:</b>                                    | <b>0</b>                | <b>0</b>           | <b>0</b>         | <b>4</b>               | <b>0</b>                | <b>10</b>            | <b>0</b>     | <b>8</b>        | <b>22</b>         |
| <b>Subtotal Fees:</b>                                     | <b>\$0</b>              | <b>\$0</b>         | <b>\$0</b>       | <b>\$536</b>           | <b>\$0</b>              | <b>\$1,280</b>       | <b>\$0</b>   | <b>\$1,280</b>  | <b>\$3,096</b>    |
| <b>Bidding &amp; Construction Phase Services (FC 309)</b> |                         |                    |                  |                        |                         |                      |              |                 |                   |
| a. Respond to Bidder questions as necessary               |                         |                    | 8                |                        | 8                       |                      |              |                 | 2,352             |
| <b>Subtotal Hours:</b>                                    | <b>0</b>                | <b>0</b>           | <b>8</b>         | <b>0</b>               | <b>8</b>                | <b>0</b>             | <b>0</b>     | <b>0</b>        | <b>16</b>         |
| <b>Subtotal Fees:</b>                                     | <b>\$0</b>              | <b>\$0</b>         | <b>\$1,288</b>   | <b>\$0</b>             | <b>\$1,064</b>          | <b>\$0</b>           | <b>\$0</b>   | <b>\$0</b>      | <b>\$2,352</b>    |
| <b>TOTAL HOURS:</b>                                       | <b>2</b>                | <b>6</b>           | <b>108</b>       | <b>4</b>               | <b>224</b>              | <b>10</b>            | <b>6</b>     | <b>8</b>        | <b>368</b>        |
| <b>TOTAL FEES:</b>                                        | <b>\$466</b>            | <b>\$1,296</b>     | <b>\$17,388</b>  | <b>\$536</b>           | <b>\$29,792</b>         | <b>\$1,280</b>       | <b>\$432</b> | <b>\$1,280</b>  | <b>\$57,470</b>   |

| FUNCTION CODE 150 - SURVEY |                                                            | Survey Director<br>\$160 | Project Surveyor, SIT<br>\$120 | Survey Technician I<br>\$100 | 2 Person Field Crew<br>\$140 | subtotals      |
|----------------------------|------------------------------------------------------------|--------------------------|--------------------------------|------------------------------|------------------------------|----------------|
| <b>ROW Survey</b>          |                                                            |                          |                                |                              |                              |                |
|                            | Revise Field Notes for Pond and Storm Sewer Vacations      | 8                        | 8                              | 8                            |                              | \$2,080        |
|                            | Prepare Field Notes for New Pond and Storm Sewer Easements | 8                        | 18                             |                              |                              | \$3,200        |
|                            | QA/QC                                                      | 4                        | 4                              |                              |                              | \$1,120        |
|                            | <b>subtotal</b>                                            | <b>\$3,200</b>           | <b>\$2,400</b>                 | <b>\$800</b>                 | <b>\$0</b>                   | <b>\$6,400</b> |
| <b>Design Survey</b>       |                                                            |                          |                                |                              |                              |                |
|                            | Revise Survey Control Sheets                               | 2                        | 8                              |                              |                              | \$960          |
|                            | QA/QC                                                      | \$320                    | \$960                          | \$0                          | \$0                          | \$320          |
|                            | <b>subtotal</b>                                            |                          |                                |                              |                              | <b>\$1,280</b> |
| <b>TOTALS</b>              |                                                            | <b>\$3,520</b>           | <b>\$3,360</b>                 | <b>\$800</b>                 | <b>\$0</b>                   | <b>\$7,680</b> |