

WORK AUTHORIZATION NO. 1
PROJECT: DAVILLA STREET CULVERT REPLACEMENT

This Work Authorization is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated May 5, 2020 and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and **RS&H, Inc.** (the "Engineer").

Part 1. The Engineer will provide the following Engineering Services set forth in Attachment "B" of this Work Authorization.

Part 2. The maximum amount payable for services under this Work Authorization without modification is \$55,812.00.

Part 3. Payment to the Engineer for the services established under this Work Authorization shall be made in accordance with the Contract.

Part 4. This Work Authorization shall become effective on the date of final acceptance and full execution of the parties hereto and shall terminate on April 30, 2021. The Engineering Services set forth in Attachment "B" of this Work Authorization shall be fully completed on or before said date unless extended by a Supplemental Work Authorization.

Part 5. This Work Authorization does not waive the parties' responsibilities and obligations provided under the Contract.

Part 6. This Work Authorization is hereby accepted and acknowledged below.

EXECUTED this 18th day of August, 2020.

ENGINEER:

RS&H, Inc.

By: 
Signature

George Grantham, PE
Printed Name

Vice President
Title

COUNTY:

Williamson County, Texas

By: 
Signature

Bill Gravell Jr.
Printed Name

County Judge
Title

 8/12/2020

LIST OF ATTACHMENTS

Attachment A - Services to be Provided by County

Attachment B - Services to be Provided by Engineer

Attachment C - Work Schedule

Attachment D - Fee Schedule

ATTACHMENT A
SERVICES TO BE PROVIDED BY THE COUNTY FOR
DAVILLA STREET CULVERT REPLACEMENT

In general, Williamson County and its representatives to their best efforts will render services as follows:

1. Name, business address, and phone number of County's project manager.
2. Assistance to the Engineer, as necessary, with obtaining data and information from other local, regional, State, Federal and Railroad agencies required for this project.
3. Provide available appropriate County data on file including plans and specifications that are deemed pertinent to the completion of the work required by the scope of services (including previous hydraulic studies, models, previous reports and studies, available existing traffic counts, and design year traffic projections).
4. Provide available criteria and full information as to the client's requirements for the project. Provide examples of acceptable format for the required deliverables.
5. Provide information on any meetings/discussions held with adjoining property owners that may impact the project.
6. Provide timely reviews and decisions necessary for the Engineer to maintain the project work schedule. Review recommendations offered by the Engineer, progress of work, and final acceptance of all documents.
7. Submittal of documentation and permits to regulatory agencies for review and comment, when specified.
8. Support project development efforts with stakeholders, coordinate meetings and interface with stakeholders, as needed.
9. Post and maintain project information for public consumption on the County website.
10. Assist with Coordination between the Engineer and the County's other consultants.
11. Negotiate with all utility companies for any agreements and/or relocations required.
12. Provide an agent as necessary to secure proposed ROW and relocate/remove improvements on proposed ROW.

ATTACHMENT B

SERVICES TO BE PROVIDED BY THE ENGINEER FOR DAVILLA STREET CULVERT REPLACEMENT

PROJECT DESCRIPTION

Project Limits

The project limits are from the intersection of Walton Street and Davilla Street east to the railroad crossing.

Existing Facility

Existing culvert under two lane brick road north of the intersection of Davilla Street and Walton Street.

Proposed Facility

Proposed culvert and pavement replacement north of the intersection of Davilla Street and Walton Street.

Design Criteria

The proposed design criteria for the project will be developed from Williamson County and TxDOT design criteria and UPRR guidelines. It is anticipated that in most cases the most stringent of the design criteria will be used.

1. PROJECT MANAGEMENT

a. Communication:

- Designate one Licensed Professional Engineer (Texas) to be responsible for the project management, and all communications with the County and its representatives.

b. Monthly Progress Report, Invoices, and Billings (6 months assumed):

- Submit monthly progress status reports to the GEC. Progress reports will include deliverable table, tasks completed, tasks/objectives that are planned for the upcoming periods, lists or descriptions of items or decisions needed from the County and its representatives. Subconsultant progress will be incorporated into the monthly progress report. A copy of the monthly progress report will be uploaded to ProjectWise.
- Prepare correspondence, invoices, and progress reports on a monthly basis in accordance with current County requirements.

c. Quality Assurance and Quality Control (QA/QC) Plan:

- Prepare a project specific QA/QC plan and submit to the County within thirty (30) days of notice to proceed.
- For each deliverable submittal, provide evidence of their internal review and mark-up of that deliverable as preparation for submittal and in accordance with submitted project specific QA/QC plan.
- Provide continuous QA/QC throughout the duration of the scheduled services included herein to appraise both technical and business performance and provide direction for project activities.

d. Project Coordination & Administration:

- Prepare and maintain routine project record keeping including records of meetings and minutes.
- Correspondence and coordination will be handled through & with the concurrence of the GEC.
- Manage Project activities (including documenting emails, phone and conference calls, maintain project files for the length of the project, meeting agendas, meeting minutes, and schedule meetings), direct Engineer's team/staff, coordinate and review sub-consultant work, correspond with the County and its representatives, and assist the County and its representatives in preparing responses to Project-related inquiries.

e. Progress/Coordination Meetings (4 external meetings assumed):

- Attend a kickoff meeting and coordination/progress meeting with the County and its representatives and stakeholders, as necessary to communicate development of the project and design issues.
- Prepare agenda and sign-in sheets for external coordination/progress meetings.
- Prepare meeting minutes for review via email within three (3) business days of the external coordination/progress meeting.
- Conduct internal coordination meetings as required to advance the development of the project.

f. Project Schedule:

- Maintain a project schedule indicating tasks, subtasks, critical dates, milestones, and deliverables. Submit to County as requested.

g. **Deliverables:**

- Monthly Invoices and Progress Reports including Deliverable Table
- Project Specific QA/QC Plan
- Meeting Minutes, Sign-In Sheets, and Agendas
- Project Schedule and Updates
- Project Files
- QA/QC Documentation with Deliverable

2. **ROUTE AND DESIGN STUDIES**

a. Data Collection:

- Perform record research and obtaining existing information, including but not limited to: as-built plans, construction plans, right of way maps, , studies, future land use maps, floodplain data, floodplain and drainage models and analyses. Obtain construction plans for projects within the project limits and abutting TxDOT and County Roads. Obtain drainage studies, reports, and mapping for the project area, including reports for developments affecting the drainage area.

- Conduct a field investigation of the proposed roadway alignment and the surrounding area to determine field conditions including photographic record of notable existing features.
- Review the data collected and organize the information.

b. Design Criteria:

- Analyze and identify project-specific design criteria (typical sections, design speed, functional classification, geometric criteria) in accordance with the latest versions of Williamson County Design Criteria Manual and other associated local and State Manuals, as applicable.

c. **Deliverables:**

- Draft and Final Design Summary Form (pdf and hardcopies)

3. **TRAFFIC EVALUATIONS AND PROJECTIONS**

a. Data Collection

- Perform and collect relevant traffic information such as twenty-four (24) hour traffic counts required for pavement design.

b. **Deliverables:**

- Traffic Counts

4. **PUBLIC INVOLVEMENT**

As this is a Road Bond Project, public involvement activities will be conducted through the County's existing public involvement contract with Rifeline. The Consultant shall coordinate and provide support on the public involvement with the County's GEC and public involvement consultant.

Deliverables:

- Provide information or data for fact sheets and FAQs

5. **SURVEYING**

a. Field Surveying:

- Survey the area at approximately **50-foot** sections, locate visible improvements and utilities including driveways, water wells, storage tanks, drainage structures (size, material, flowline elevations), edge of pavement/shoulder, physical centerline, guardrail, fences, signs, mailboxes, trees 8" inch diameter and greater, locate property boundaries sufficient to re-establish ROW.
- Establish horizontal and vertical control and set temporary benchmarks.

b. **Deliverables:**

- Mapping in 2-D and 3-D MicroStation Files (Grid or Datum)
- PDF of each Surveyor Project Notebook

- RPLI Certificates

6. ENVIRONMENTAL SERVICES

a. Section 404 Clean Water Act Compliance:

- Conduct a site visit that will delineate wetland boundaries and ordinary high-water marks of jurisdictional waters within the project ROW. It is anticipated that this project will be covered under a Nationwide Permit (NWP 14) without a pre-construction notification (PCN).
- Prepare a Jurisdictional Waters Delineation Report identifying specific impacts of the project on the Waters of the U.S. (including special aquatic sites), measures to minimize the impacts will be identified, and discuss applicable Section 404 options in accordance with current permits and conditions based on data collection and field reconnaissance.
- *If it is determined, after the Jurisdictional Waters Delineation Report, that a PCN is required; a supplemental work authorization would be required. The Jurisdictional Waters Delineation Report and NWP with PCN are subject to the U.S. Army Corps of Engineers Forth Worth District review and issuance of a permit.*

b. Historical Site Compliance:

- Prepare a historic building survey that will follow the Secretary of the Interior's Standards and guidelines for Archeology and Historic Preservation and document historic buildings and structures within the Area of Potential Effect based on data collection and field reconnaissance.

Deliverables:

- Draft & Final Jurisdictional Waters Delineation Report
- Draft & Final Historic Building Survey

7. PLAN PREPARATIONS (PS&E) (Drainage and Roadway Project)

Prepare plans per the current Williamson County Design Criteria Manual including applicable submittal requirements including cost estimate, checklists, hardcopies, CAD files, comment responses, design waivers/exceptions, general notes, quantities, updated design schedule, construction time determination. The engineer will develop and submit these Plans, Specifications & Estimates (PS&E) at 45%, 100% and Final Design.

a. Roadway/General:

- Title Sheet
 - Prepare a project title sheet as required for the construction plans, utilizing the template provided by the County.
- Index of Sheets
 - Prepare an index sheet(s) that shows each sheets location in the plan set.
- Project Layout

- Prepare a project layout sheet(s) that clearly indicates the limits of the entire project.
 - Typical Sections
 - Prepare typical section(s) for all proposed and existing roadways and cross streets.
 - General Notes
 - Prepare general notes for applicable project-specific items, utilizing the master general notes provided by the County.
 - Survey data
 - Prepare benchmark layout sheet(s) that clearly indicate the benchmark locations and associated control information.
 - Horizontal Alignment Data
 - Prepare horizontal alignment data sheet(s) that depict the horizontal geometric information for the roadways to be included in the construction plan set.
 - Summary Sheets
 - Prepare summary sheet(s) that tabulate, combine, and summarize quantities of the various construction items.
 - Removal Plans
 - Prepare removal sheet(s) that clearly identify any items to be removed.
 - Roadway Plan & Profiles
 - Prepare roadway plan and profile sheets that depict the proposed construction.
 - Miscellaneous
 - Develop miscellaneous roadway detail sheets for the project that depict details required, which are not defined in standard detail sheets.
 - Cross Sections
 - Develop cross sections at 50-foot stations and other locations as necessary for the determination of cut and fill quantities. These sections will also be used to further refine the design vertical geometry.
- b. Traffic Control:
- Traffic Control Plans (TCP)
 - Prepare traffic control typical section(s) for each stage of the construction sequence to clearly delineate the position of the existing traffic with respect to the proposed construction.
 - Prepare a detailed narrative for the sequence of construction and traffic control general notes utilizing the sequence approved during the schematic phase. Any changes to the sequence of construction will be approved by the County prior to developing detailed TCP layouts.

- Prepare detailed TCP layouts for each phase.
- Develop traffic control detail(s) for items not covered by County or TxDOT standard details.
- Compute an Engineer's opinion of construction schedule in order to determine an approximate duration for each of the phases of construction.
- Consider the construction sequence and plan for temporary functioning of drainage systems.

c. Drainage:

- Drainage Area Maps
 - Develop existing and proposed drainage area maps to show the overall project and drainage basin divides. If needed, prepare interior drainage area maps that depict drainage area boundaries and flow direction arrows to the culvert and roadside channels. Each area will be identified and cross-referenced to the culvert layout sheet.
 - Tabulate calculations for peak flow to the hydraulic crossing and adjacent channel in accordance with Williamson County Design Criteria Manual.
- Culvert Layout Sheets
 - Develop a culvert layout sheet at the crossing location, up to **one** (1) location. Include hydraulic data for the existing and proposed culvert and adjacent channels.
 - Identify areas of the culvert construction that will require trench protection or special shoring.
- Culvert Standards and Detail Sheets
 - Select culvert standards based on headwall configuration and fill conditions. Develop details as needed for non-standard headwalls, special grading at upstream and downstream transitions and energy dissipation.
 - Provide drainage design details for "non-standard" drainage structures in instances where they are not covered by TxDOT standard details. Use TxDOT standards details where practical.
- Roadside Ditch Design
 - Provide pertinent information about the roadside ditch geometry and design, including station, offset, flow line elevation, velocity, ditch lining material, as well as ditch bottom width.

d. Signing and Pavement Markings Layouts:

- Prepare signing and pavement marking layouts.
- Prepare pavement marking details for non-standard conditions.

e. Stormwater Pollution Prevention Plan (SW3P):

- Develop SW3P narrative in conformance with the TCP to minimize potential impacts to receiving waterways.
- Prepare Temporary Erosion Control Layouts.

f. **Deliverables:**

- 45%, 100% & Final PS&E Submittals including applicable Williamson County Submittal Checklists.
- Drainage Models

8. **BIDDING PHASE SERVICES**

- Prepare all applicable construction documents for bidding. Attend the pre-bid meeting. Respond to bidder's questions during the bid period. Prepare project addenda up to three (3) during bid period. Analyze contractor bids, prepare bid tabulation, and make recommendation for award to the apparent low bidder via a letter. Attend the pre-construction conference.

b. **Deliverables:**

- Letter of Recommendation for Award, with Bid Tabulation.

9. **CONSTRUCTION PHASE SERVICES**

a. Request for Information - RFIs (3 assumed):

- Attend site visits and/or meetings to gather data and information for RFI responses.
- Respond to Contractor RFIs and provide design clarifications, additional information, and additional data to the GEC as required within seven (7) calendar days.

b. Review Contractor Submittals & Shop Drawings (5 assumed):

- Review Contractor submittals and shop drawings received from the GEC for conformance with the plans and specifications. Provide stamped concurrence, exceptions or resubmittal notations to the Contractor within seven (7) calendar days.

c. Plan Revisions for Field Changes (3 sheet assumed):

- 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. The County will not be billed for plan revisions resulting from engineering errors or omissions.

d. Attend Meetings (3 assumed):

- Attend meetings at the project site or Williamson County representative office, as requested. When in attendance, the Engineer will provide meeting minutes and sign in sheet(s).
- Visit the project site on request (3 hours per visit) during construction to address questions on interpretation of plans.

10. DELIVERABLES:

a. Documents:

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

11. EXCLUSIONS:

a. The following items are not included in this work authorization:

- DRAINAGE REPORT
- SCHEMATIC DEVELOPMENT.
- FEMA COORDINATION (INCLUDING CLOMR OR LOMR).
- TXDOT NEPA DOCUMENTATION.
- NATIONWIDE PERMIT (NWP) 14 WITH A PRE-CONSTRUCTION NOTIFICATION (PCN).
- UTILITY COORDINATION OR RELOCATION ESTIMATES.

ATTACHMENT C

WORK SCHEDULE

WORK SCHEDULE										
		2020								2021
Act ID	Activity Description	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
1	Notice to Proceed									
2	Route & Design Studies									
3	Field Surveying and Photogrammetry									
4	Environmental									
5	45% Roadway Design - Drainage									
6	45% Roadway Design - Miscellaneous									
7	45% PS&E Submittal Milestone									
8	45% Williamson County Review									
9	100% Roadway Design - Drainage									
10	100% Roadway Design - Miscellaneous									
11	100% PS&E Submittal Milestone									
12	100% Williamson County Review									
13	Final Design									
14	Final PS&E Submittal Milestone									
15	Final Williamson County Review									
16	Project Ready to Let (RTL)									

ATTACHMENT D FEE SCHEDULE

Prime Provider: RS&H, Inc.

SUMMARY													
TASK	TASK DESCRIPTION	RS&H, Inc.		HVJ South Central Texas - M&J, Inc.		McGray and McGray Land Sureveyors, Inc.		WSB & Associates, Inc.		Cox McLain Environmental Consulting, Inc.		TOTALS	
		Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Total
PS&E DESIGN													
1	PROJECT MANAGEMENT	40	\$ 4,832.00	0	\$ -	0	\$ -	4	\$ 760.00	0	\$ -	44	\$ 5,592.00
2	ROUTE AND DESIGN STUDIES	16	\$ 2,211.00	0	\$ -	0	\$ -	0	\$ -	0	\$ -	16	\$ 2,211.00
3	TRAFFIC EVALUTATIONS & PROJECTIONS	5	\$ 789.00	0	\$ -	0	\$ -	0	\$ -	0	\$ -	5	\$ 789.00
4	PUBLIC INVOLVEMENT	10	\$ 1,119.00	0	\$ -	0	\$ -	0	\$ -	0	\$ -	10	\$ 1,119.00
5	SURVEYING	0	\$ -	0	\$ -	54	\$ 6,478.00	0	\$ -	0	\$ -	54	\$ 6,478.00
6	ENVIRONMENTAL SERVICES	20	\$ 2,050.00	0	\$ -	0	\$ -	0	\$ -	38	\$ 3,545.00	58	\$ 5,595.00
7	GEOTECHNICAL SERVICES	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -
8	PLAN PREPARATIONS (PS&E) (Drainage and Roadway Project)	181	\$ 25,219.00	0	\$ -	0	\$ -	20	\$ 3,800.00	0	\$ -	201	\$ 29,019.00
9	BIDDING PHASE SERVICES	13	\$ 2,495.00	0	\$ -	0	\$ -	0	\$ -	0	\$ -	13	\$ 2,495.00
10	CONSTRUCTION PHASE SERVICES	15	\$ 2,514.00	0	\$ -	0	\$ -	0	\$ -	0	\$ -	15	\$ 2,514.00
LABOR TOTALS		300	\$ 41,229.00	0	\$ -	54	\$ 6,478.00	24	\$ 4,560.00	38	\$ 3,545.00	416	\$ 55,812.00
Direct Expenses			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
TOTAL COST			\$ 41,229.00		\$ -		\$ 6,478.00		\$ 4,560.00		\$ 3,545.00		\$ 55,812.00
Percentage Breakdown			73.87%		0.00%		11.61%		8.17%		6.35%		100.00%

ATTACHMENT D FEE SCHEDULE

Prime Provider: RS&H, Inc.

TASK DESCRIPTION	PROJECT MANAGER	QUALITY MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ENGINEER IN TRAINING	ENVIRONMENTAL SPECIALIST	TRANSPORTATION PLANNER	DESIGNER	OPERATION ASST	VISUALIZATION	ADMIN	TOTAL LABOR HRS. & COSTS
1. PROJECT MANAGEMENT													0
Communication						6							0
Monthly Progress Report, Invoices & Billings				2								20	28
Quality Assurance and Quality Control (QA/QC) Plan													0
Project Coordination & Administration	1		2	2									5
Progress/Coordination Meetings	1		2	4									7
HOURS SUB-TOTALS	2	0	4	8	0	6	0	0	0	0	0	20	40
CONTRACT RATE PER HOUR	\$250.00	\$265.00	\$235.00	\$165.00	\$125.00	\$112.00	\$135.00	\$100.00	\$135.00	\$115.00	\$130.00	\$70.00	
TOTAL LABOR COSTS	\$500.00	\$0.00	\$940.00	\$1,320.00	\$0.00	\$672.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,400.00	\$4,832.00
SUBTOTAL PROJECT MANAGEMENT													\$4,832.00

TASK DESCRIPTION	PROJECT MANAGER	QUALITY MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ENGINEER IN TRAINING	ENVIRONMENTAL SPECIALIST	TRANSPORTATION PLANNER	DESIGNER	OPERATION ASST	VISUALIZATION	ADMIN	TOTAL LABOR HRS. & COSTS
2. ROUTE AND DESIGN STUDIES		1		1									2
Data Collection				1		4							5
Stakeholder Coordination					2	4							6
Design Criteria				1	2								3
													0
HOURS SUB-TOTALS	1	0	1	2	4	8	0	0	0	0	0	0	16
CONTRACT RATE PER HOUR	\$250.00	\$265.00	\$235.00	\$165.00	\$125.00	\$112.00	\$135.00	\$100.00	\$135.00	\$115.00	\$130.00	\$70.00	
TOTAL LABOR COSTS	\$250.00	\$0.00	\$235.00	\$330.00	\$500.00	\$896.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,211.00
SUBTOTAL ROUTE AND DESIGN STUDIES													\$2,211.00

TASK DESCRIPTION	PROJECT MANAGER	QUALITY MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ENGINEER IN TRAINING	ENVIRONMENTAL SPECIALIST	TRANSPORTATION PLANNER	DESIGNER	OPERATION ASST	VISUALIZATION	ADMIN	TOTAL LABOR HRS. & COSTS
3. TRAFFIC EVALUATIONS AND PROJECTIONS													
Data Collection			1	2		2							5
													0
HOURS SUB-TOTALS	0	0	1	2	0	2	0	0	0	0	0	0	5
CONTRACT RATE PER HOUR	\$250.00	\$265.00	\$235.00	\$165.00	\$125.00	\$112.00	\$135.00	\$100.00	\$135.00	\$115.00	\$130.00	\$70.00	
TOTAL LABOR COSTS	\$0.00	\$0.00	\$235.00	\$330.00	\$0.00	\$224.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$789.00
SUBTOTAL TRAFFIC EVALUATIONS AND PROJECTIONS													\$789.00

TASK DESCRIPTION	PROJECT MANAGER	QUALITY MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ENGINEER IN TRAINING	ENVIRONMENTAL SPECIALIST	TRANSPORTATION PLANNER	DESIGNER	OPERATION ASST	VISUALIZATION	ADMIN	TOTAL LABOR HRS. & COSTS
4. PUBLIC INVOLVEMENT													
Public Involvement Plan	1			1		2		2				4	10
													0
HOURS SUB-TOTALS	1	0	0	1	0	2	0	2	0	0	0	4	10
CONTRACT RATE PER HOUR	\$250.00	\$265.00	\$235.00	\$165.00	\$125.00	\$112.00	\$135.00	\$100.00	\$135.00	\$115.00	\$130.00	\$70.00	
TOTAL LABOR COSTS	\$250.00	\$0.00	\$0.00	\$165.00	\$0.00	\$224.00	\$0.00	\$200.00	\$0.00	\$0.00	\$0.00	\$280.00	\$1,119.00
SUBTOTAL PUBLIC INVOLVEMENT													\$1,119.00

TASK DESCRIPTION	PROJECT MANAGER	QUALITY MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ENGINEER IN TRAINING	ENVIRONMENTAL SPECIALIST	TRANSPORTATION PLANNER	DESIGNER	OPERATION ASST	VISUALIZATION	ADMIN	TOTAL LABOR HRS. & COSTS
6. ENVIRONMENTAL SERVICES													
County Due Diligence							2					2	4
Data Collection & Field Reconnaissance							2					2	4
Section 404 Clean Water Act Compliance							4					4	8
Historical Site Compliance													0
Hazardous Materials Initial Assessment							2					2	4
Texas Antiquities Code (TAC) Compliance													0
													0
HOURS SUB-TOTALS	0	0	0	0	0	0	10	0	0	0	0	10	20
CONTRACT RATE PER HOUR	\$250.00	\$265.00	\$235.00	\$165.00	\$125.00	\$112.00	\$135.00	\$100.00	\$135.00	\$115.00	\$130.00	\$70.00	
TOTAL LABOR COSTS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,350.00	\$0.00	\$0.00	\$0.00	\$0.00	\$700.00	\$2,050.00
SUBTOTAL ENVIRONMENTAL SERVICES													\$2,050.00

ATTACHMENT D FEE SCHEDULE

Prime Provider: RS&H, Inc.

TASK DESCRIPTION	PROJECT MANAGER	QUALITY MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ENGINEER IN TRAINING	ENVIRONMENTAL SPECIALIST	TRANSPORTATION PLANNER	DESIGNER	OPERATION ASST	VISUALIZATION	ADMIN	TOTAL LABOR HRS. & COSTS
8. PLAN PREPARATIONS (PS&E) (Drainage and Roadway Project)	8. PLAN PREPARATIONS (PS&E) (Drainage and Roadway Project)												
Roadway General	1		4										5
Title & Index Sheets				1		2							3
Project Layout				2		4							6
Typical Sections				2		4							6
General Notes				1		4							5
Survey Data				1		4							5
Horizontal Alignment Data						4							4
Summary Sheets				1		4							5
Removal Plans				1		8							9
Roadway Plan & Profiles				1		16							17
Preparing Exhibits or other needed project details	2		4	6		8							20
Cross Sections													0
Traffic Control Plans (TCP)	2		4										6
Traffic Control Plans (TCP)				2		4							6
Sequence of Construction & Traffic Control General notes						2							2
TCP Layouts				1		1							2
Develop Traffic Control Details						2							2
Compute Engineer's Opinion of Construction Schedule						4							4
Plan for Temporary Functioning of Drainage Systems				2		2							4
Drainage	1		4										5
Drainage Area Maps				2		8							10
Culvert Layout Sheets					4	16							20
Culvert Standards & Detail Sheets					2	2							4
Roadside Ditch Design					1	4							5
Signing and Pavement Markings Layouts				2		2							4
Signing & Pavement Marking Layouts				1	2	4							7
Pavement Marking Details						2							2
Detail Sheets Small Signs for Non-Standard Signs						2							2
Stormwater Pollution Prevention Plan (SW3P)	1		4										5
SW3P													0
Temporary Erosion Control Layouts					2	4							6
HOURS SUB-TOTALS	7	0	20	26	11	117	0	0	0	0	0	0	181
CONTRACT RATE PER HOUR	\$250.00	\$265.00	\$235.00	\$165.00	\$125.00	\$112.00	\$135.00	\$100.00	\$135.00	\$115.00	\$130.00	\$70.00	
TOTAL LABOR COSTS	\$1,750.00	\$0.00	\$4,700.00	\$4,290.00	\$1,375.00	\$13,104.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25,219.00
SUBTOTAL PLAN PREPARATIONS (PS&E)													\$25,219.00
TASK DESCRIPTION	PROJECT MANAGER	QUALITY MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ENGINEER IN TRAINING	ENVIRONMENTAL SPECIALIST	TRANSPORTATION PLANNER	DESIGNER	OPERATION ASST	VISUALIZATION	ADMIN	TOTAL LABOR HRS. & COSTS
9. BIDDING PHASE SERVICES													
Prepare applicable Construction Documents for Bidding			1	2									3
Attend Pre-bid Meeting			1	2									3
Prepare Project Addenda (up to 3)			1	2									3
Analyze Contractor bids, Prepare Bid Tabulation & Make Recommendation			1	2									3
Attend Pre-Construction Conference			1										1
HOURS SUB-TOTALS	0	0	5	8	0	0	0	0	0	0	0	0	13
CONTRACT RATE PER HOUR	\$250.00	\$265.00	\$235.00	\$165.00	\$125.00	\$112.00	\$135.00	\$100.00	\$135.00	\$115.00	\$130.00	\$70.00	
TOTAL LABOR COSTS	\$0.00	\$0.00	\$1,175.00	\$1,320.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,495.00
SUBTOTAL BIDDING PHASE SERVICES													\$2,495.00
TASK DESCRIPTION	PROJECT MANAGER	QUALITY MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ENGINEER IN TRAINING	ENVIRONMENTAL SPECIALIST	TRANSPORTATION PLANNER	DESIGNER	OPERATION ASST	VISUALIZATION	ADMIN	TOTAL LABOR HRS. & COSTS
10. CONSTRUCTION PHASE SERVICES													
Request for Information - RFIs (3 assumed)	1		2		2								5
Attend Site Visits and/or meetings				2									2
Respond to Contract RFIs & Provide Clarification				2									2
Review Contractor Submittals & Shop Drawings (10 assumed)				2									2
Plan Revisions for Field Changes				2		2							4
Attend Meetings													0
Attend Meetings at the Project Site or Williamson County office													0
Visit Project site on Request (3 hrs per visit)													0
HOURS SUB-TOTALS	1	0	2	8	2	2	0	0	0	0	0	0	15
CONTRACT RATE PER HOUR	\$250.00	\$265.00	\$235.00	\$165.00	\$125.00	\$112.00	\$135.00	\$100.00	\$135.00	\$115.00	\$130.00	\$70.00	
TOTAL LABOR COSTS	\$250.00	\$0.00	\$470.00	\$1,320.00	\$250.00	\$224.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,514.00
SUBTOTAL CONSTRUCTION PHASE SERVICES													\$2,514.00

ATTACHMENT D FEE SCHEDULE

Prime Provider: RS&H, Inc.

DESCRIPTION												TOTAL MH BY TASK	TOTAL COSTS TASK
1. PROJECTMANAGEMENT												40	\$ 4,832.00
2. ROUTE AND DESIGN STUDIES												16	\$ 2,211.00
3. TRAFFIC EVALUATIONS AND PROJECTIONS												5	\$ 789.00
4. PUBLIC INVOLVEMENT												10	\$ 1,119.00
5. SURVEYING												0	\$ -
6. ENVIRONMENTAL SERVICES												20	\$ 2,050.00
7. GEOTECHNICAL SERVICES												0	\$ -
8. PLAN PREPARATIONS (PS&E) (Drainage and Roadway Project)												181	\$ 25,219.00
9. BIDDING PHASE SERVICES												13	\$ 2,495.00
10. CONSTRUCTION PHASE SERVICES												15	\$ 2,514.00
SUBTOTAL LABOR EXPENSES												300	\$ 41,229.00

DIRECT EXPENSES	QUANTITY	COST	UNIT												TOTAL
Mileage		\$ 0.575	mile												\$ -
Rental Car (Includes taxes and fees; Insurance costs will not be reimbursed)		\$ 60.00	day												\$ -
Rental Car Fuel		\$ 45.00	day												\$ -
Parking - per day		\$ 20.00	max each												\$ -
Toll Charges - each		\$ 2.00	max each												\$ -
Meals per day (Overnight stay required)		\$ 61.00	day/person												\$ -
Standard Postage - <i>Current Postal Rate</i>		\$ 0.55	each												\$ -
Certified Letter Return Receipt - <i>Current Postal Rate</i>		\$ 6.40	each												\$ -
Overnight Mail - letter size - <i>Current Postal Rate</i>		\$ 30.00	max each												\$ -
Overnight Mail - oversized box		\$ 45.00	max each												\$ -
Counter Services		\$ 33.00	each												\$ -
Photocopies B/W (11" X 17")		\$ 0.25	each												\$ -
Photocopies B/W (8 1/2" X 11")		\$ 0.15	each												\$ -
Photocopies Color (11" X 17")		\$ 2.00	each												\$ -
Photocopies Color (8 1/2" X 11")		\$ 1.00	each												\$ -
Plots (B/W on Bond)		\$ 2.00	per sq. ft.												\$ -
Plots (Color on Bond)		\$ 4.00	per sq. ft.												\$ -
Plots (Color on Photographic Paper)		\$ 5.00	per sq. ft.												\$ -
Color Graphics on Foam Board		\$ 12.00	per sq. ft.												\$ -
Presentation Boards 30" X 40" Color Mounted		\$ 145.00	max each												\$ -
Report Binding and tabbing		\$ 15.00	each												\$ -
Reproduction of CD/DVD - each		\$ 4.00	each												\$ -
SUBTOTAL DIRECT EXPENSES															\$ -
SUBCONTRACTS:															
HVJ South Central Texas - M&J, Inc.															\$ -
McGray and McGray Land Sureveyors, Inc.															\$ 6,478.00
WSB & Associates, Inc.															\$ 4,560.00
Cox McLain Environmental Consulting, Inc.															\$ 3,545.00
SUBCONTRACT SUB-TOTAL															\$ 14,583.00

SUMMARY	
TOTAL COSTS FOR PRIME ONLY(includes multiplier)	\$ 41,229.00
NON-SALARY (OTHER DIRECT EXPENSES)	\$ -
SUBCONTRACTS (includes labor costs and direct expenses)	\$ 14,583.00
GRAND TOTAL	\$ 55,812.00

ATTACHMENT D FEE SCHEDULE

Sub Provider: McGray and McGray Land Sureveyors, Inc.

TASK DESCRIPTION	COURT TESTIMONY RPLS	PRINCIPAL	RPLS	PROJECT MANAGER	FIELD COORDINATOR	GPS PROCESSING	LIDAR TECHNICIAN	SENIOR TECHNICIAN	AUTOCAD/ SURVEY TECHNICIAN	RESEARCHER	2-MAN CREW	ADMIN	TOTAL LABOR HRS. & COSTS
1. PROJECTMANAGEMENT													
Communication													
Montly Progress Report, Invoices & Billings													0
Quality Assurance and Quality Control (QZ/QC) Plan													0
Project Coordination & Administration													0
Progress/Coordination Meetings													0
HOURS SUB-TOTALS	0	0	0	0	0	0	0	0	0	0	0	0	0
CONTRACT RATE PER HOUR	\$200.00	\$190.00	\$145.00	\$165.00	\$98.00	\$108.00	\$98.00	\$96.00	\$90.00	\$80.00	\$165.00	\$70.00	
TOTAL LABOR COSTS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
SUBTOTAL PROJECT MANAGEMENT													\$0.00

TASK DESCRIPTION	COURT TESTIMONY RPLS	PRINCIPAL	RPLS	PROJECT ENGINEER	FIELD COORDINATOR	GPS PROCESSING	LIDAR TECHNICIAN	SENIOR TECHNICIAN	AUTOCAD/ SURVEY TECHNICIAN	RESEARCHER	2-MAN CREW	ADMIN	TOTAL LABOR HRS. & COSTS
5. SURVEYING													
Field Surveying			2					8	20	4	20		54
													0
HOURS SUB-TOTALS	0	0	2	0	0	0	0	8	20	4	20	0	54
CONTRACT RATE PER HOUR	\$200.00	\$190.00	\$145.00	\$165.00	\$98.00	\$108.00	\$98.00	\$96.00	\$90.00	\$80.00	\$165.00	\$70.00	
TOTAL LABOR COSTS	\$0.00	\$0.00	\$290.00	\$0.00	\$0.00	\$0.00	\$0.00	\$768.00	\$1,800.00	\$320.00	\$3,300.00	\$0.00	\$6,478.00
SUBTOTAL SURVEYING													\$6,478.00

DESCRIPTION												TOTAL MH BY TASK	TOTAL COSTS TASK
1. PROJECTMANAGEMENT												0	\$ -
2. ROUTE AND DESIGN STUDIES												0	\$ -
3. TRAFFIC EVALUATIONS AND PROJECTIONS												0	\$ -
4. PUBLIC INVOLVEMENT												0	\$ -
5. SURVEYING												54	\$ 6,478.00
6. ENVIRONMENTAL SERVICES												0	\$ -
7. GEOTECHNICAL SERVICES												0	\$ -
8. PLAN PREPARATIONS (PS&E) (Drainage and Roadway Project)												0	\$ -
9. BIDDING PHASE SERVICES												0	\$ -
10. CONSTRUCTION PHASE SERVICES												0	\$ -
SUBTOTAL LABOR EXPENSES												54	\$ 6,478.00

ATTACHMENT D FEE SCHEDULE

DIRECT EXPENSES	QUANTITY	COST	UNIT										TOTAL
Mileage		\$ 0.575	mile										\$ -
Rental Car (Includes taxes and fees; Insurance costs will not be reimbursed)		\$ 60.00	day										\$ -
Rental Car Fuel		\$ 45.00	day										\$ -
Parking - per day		\$ 20.00	max each										\$ -
Toll Charges - each		\$ 2.00	max each										\$ -
Meals per day (Overnight stay required)		\$ 61.00	day/person										\$ -
Standard Postage - <i>Current Postal Rate</i>		\$ 0.55	each										\$ -
Certified Letter Return Receipt - <i>Current Postal Rate</i>		\$ 6.40	each										\$ -
Overnight Mail - letter size - <i>Current Postal Rate</i>		\$ 30.00	max each										\$ -
Overnight Mail - oversized box		\$ 45.00	max each										\$ -
Courier Services		\$ 33.00	each										\$ -
Photocopies B/W (11" X 17")		\$ 0.25	each										\$ -
Photocopies B/W (8 1/2" X 11")		\$ 0.15	each										\$ -
Photocopies Color (11" X 17")		\$ 2.00	each										\$ -
Photocopies Color (8 1/2" X 11")		\$ 1.00	each										\$ -
Plots (B/W on Bond)		\$ 2.00	per sq. ft.										\$ -
Plots (Color on Bond)		\$ 4.00	per sq. ft.										\$ -
Plots (Color on Photographic Paper)		\$ 5.00	per sq. ft.										\$ -
Color Graphics on Foam Board		\$ 12.00	per sq. ft.										\$ -
Presentation Boards 30" X 40" Color Mounted		\$ 145.00	max each										\$ -
Report Binding and tabbing		\$ 15.00	each										\$ -
Reproduction of CD/DVD - each		\$ 4.00	each										\$ -
UNIT COST - SURVEY													
Conventional Field Crew Services:													
1 Man Reconnaissance or Data Gathering		\$ 120.00	per hour										\$ -
2 Man Survey Crew, with vehicle and data collection		\$ 165.00	per hour										\$ -
3 Man Survey Crew, with vehicle and data collection		\$ 200.00	per hour										\$ -
CPS/RTK Field Crew Services:													
GPS/RTK 1 Man Survey Crew, with vehicle and data collection		\$ 170.00	per hour										\$ -
GPS/RTK 2 Man Survey Crew, with vehicle and data collection		\$ 215.00	per hour										\$ -
GPS/RTK 3 Man Survey Crew, with vehicle and data collection		\$ 250.00	per hour										\$ -
Additional Crew / Rodan		\$ 45.00	per hour										\$ -
Flagger		\$ 45.00	per hour										\$ -
Specialized Equipment:													
ATV (All Terrain Vehicle)		\$ 65.00	per day										\$ -
Additional Survey Vehicle		\$ 70.00	per day										\$ -
LiDAR Terrestrial Scanner		\$ 100.00	per hour										\$ -
UAV (Drone) Aerial Mapper		\$ 5,000.00	per day										\$ -
Mobile Mapper		\$ 9,000.00	per day										\$ -
SUBTOTAL DIRECT EXPENSES													\$ -

SUMMARY	
TOTAL COSTS FOR SUB ONLY(includes multiplier	\$ 6,478.00
NON-SALARY (OTHER DIRECT EXPENSES)	\$ -
GRAND TOTAL	\$ 6,478.00

ATTACHMENT D FEE SCHEDULE

Sub Provider: WSB & Associates, Inc.

TASK DESCRIPTION	SR. PROJECT MANAGER	SR. PROJECT ENGINEER	SR. PLANNER	PROJECT ENGINEER 4	PROJECT ENGINEER 3	PROJECT ENGINEER 2	PROJECT ENGINEER 1	OFFICE TECH 1	TOTAL LABOR HRS. & COSTS
1. PROJECTMANAGEMENT									0
Communication									0
Monthly Progress Report, Invoices & Billings									0
Quality Assurance and Quality Control (QA/QC) Plan		4							4
Project Coordination & Administration									0
Progress/Coordination Meetings									0
HOURS SUB-TOTALS	0	4	0	0	0	0	0	0	4
CONTRACT RATE PER HOUR	\$210.00	\$190.00	\$175.00	\$175.00	\$165.00	\$155.00	\$145.00	\$60.00	
TOTAL LABOR COSTS	\$0.00	\$760.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$760.00
SUBTOTAL PROJECT MANAGEMENT									\$760.00

TASK DESCRIPTION	SR. PROJECT MANAGER	SR. PROJECT ENGINEER	SR. PLANNER	PROJECT ENGINEER 4	PROJECT ENGINEER 3	PROJECT ENGINEER 2	PROJECT ENGINEER 1	OFFICE TECH 1	TOTAL LABOR HRS. & COSTS
8. PLAN PREPARATIONS (PS&E) (Drainage and Roadway Project)									
Plan Preparations (PS&E) (Drainage and Roadway Project)									
Perform QA/QC Review for Deliverables (2 Submissions)		16							16
Provide Continuous QA/QC Review of Technical Efforts		4							4
HOURS SUB-TOTALS	0	20	0	0	0	0	0	0	20
CONTRACT RATE PER HOUR	\$210.00	\$190.00	\$175.00	\$175.00	\$165.00	\$155.00	\$145.00	\$60.00	
TOTAL LABOR COSTS	\$0.00	\$3,800.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,800.00
SUBTOTAL PLAN PREPARATIONS (PS&E)									\$3,800.00

DESCRIPTION								TOTAL MH BY TASK	TOTAL COSTS TASK
1. PROJECTMANAGEMENT								4	\$ 760.00
2. ROUTE AND DESIGN STUDIES								0	\$ -
3. TRAFFIC EVALUATIONS AND PROJECTIONS								0	\$ -
4. PUBLIC INVOLVEMENT								0	\$ -
5. SURVEYING								0	\$ -
6. ENVIRONMENTAL SERVICES								0	\$ -
7. GEOTECHNICAL SERVICES								0	\$ -
8. PLAN PREPARATIONS (PS&E) (Drainage and Roadway Project)								20	\$ 3,800.00
9. BIDDING PHASE SERVICES								0	\$ -
10. CONSTRUCTION PHASE SERVICES								0	\$ -
SUBTOTAL LABOR EXPENSES								24	\$ 4,560.00

ATTACHMENT D FEE SCHEDULE

DIRECT EXPENSES	QUANTITY	COST	UNIT						TOTAL
Mileage		\$ 0.575	mile						\$ -
Parking - per day		\$ 20.00	max each						\$ -
Toll Charges - each		\$ 2.00	max each						\$ -
Overnight Mail - letter size - <i>Current Postal Rate</i>		\$ 30.00	max each						\$ -
Photocopies B/W (11" X 17")		\$ 0.25	each						\$ -
Photocopies B/W (8 1/2" X 11")		\$ 0.15	each						\$ -
Photocopies Color (11" X 17")		\$ 2.00	each						\$ -
Photocopies Color (8 1/2" X 11")		\$ 1.00	each						\$ -
Plots (B/W on Bond)		\$ 2.00	per sq. ft.						\$ -
Plots (Color on Bond)		\$ 4.00	per sq. ft.						\$ -
Plots (Color on Photographic Paper)		\$ 5.00	per sq. ft.						\$ -
SUBTOTAL DIRECT EXPENSES									\$ -

SUMMARY	
TOTAL COSTS FOR SUB ONLY(includes multiplier)	\$ 4,560.00
NON-SALARY (OTHER DIRECT EXPENSES)	\$ -
GRAND TOTAL	\$ 4,560.00

ATTACHMENT D FEE ESTIMATE

Sub Provider: Cox McLain Environmental Consulting, Inc.

TASK DESCRIPTION	PROJECT MANAGER	SENIOR GIS OPERATOR	GIS OPERATOR	GIS TECHNICIAN	SENIOR ENVIRONMENTAL PLANNER	ENVIRONMENTAL PLANNER IV	ENVIRONMENTAL PLANNER III	ENVIRONMENTAL PLANNER I/II	SENIOR ARCHAEOLOGIST PRIN INVEST	ARCHAEOLOGIST IV	ARCHAEOLOGIST III	ARCHAEOLOGIST I/II	SENIOR FIELD TECH	FIELD TECH	SENIOR ARCHITECTURAL HISTORIAN	ARCHITECTURAL HISTORIAN	ENVIRONMENTAL INSPECTOR	ADMIN	TOTAL LABOR HRS. & COSTS
6. ENVIRONMENTAL SERVICES																			
County Due Diligence																			0
Data Collection & Field Reconnaissance																			0
Section 404 Clean Water Act Compliance																			0
Hazardous Materials Initial Assessment																			0
Texas Antiquities Code (TAC) Compliance	2	2	4						3	4	8				3	8		4	38
																			0
HOURS SUB-TOTALS	2	2	4	0	0	0	0	0	3	4	8	0	0	0	3	8	0	4	38
CONTRACT RATE PER HOUR	\$160.00	\$95.00	\$85.00	\$75.00	\$130.00	\$110.00	\$95.00	\$85.00	\$110.00	\$95.00	\$85.00	\$75.00	\$55.00	\$45.00	\$115.00	\$90.00	\$85.00	\$65.00	
TOTAL LABOR COSTS	\$300.00	\$190.00	\$340.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$330.00	\$380.00	\$680.00	\$0.00	\$0.00	\$0.00	\$345.00	\$720.00	\$0.00	\$260.00	\$3,545.00
SUBTOTAL ENVIRONMENTAL SERVICES																			\$3,545.00

1. PROJECTMANAGEMENT																		0	\$ -
2. ROUTE AND DESIGN STUDIES																		0	\$ -
3. TRAFFIC EVALUATIONS AND PROJECTIONS																		0	\$ -
4. PUBLIC INVOLVEMENT																		0	\$ -
5. SURVEYING																		0	\$ -
6. ENVIRONMENTAL SERVICES																		38	\$ 3,545.00
7. GEOTECHNICAL SERVICES																		0	\$ -
8. PLAN PREPARATIONS (PS&E) (Drainage and Roadway Project)																		0	\$ -
9. BIDDING PHASE SERVICES																		0	\$ -
10. CONSTRUCTION PHASE SERVICES																		0	\$ -
SUBTOTAL LABOR EXPENSES																		38	\$ 3,545.00

DIRECT EXPENSES	QUANTITY	COST	UNIT																TOTAL
Mileage		\$ 0.575	mile																\$ -
Rental Car (includes taxes and fees; Insurance costs will not be reimbursec		\$ 60.00	day																\$ -
Toll Charges - each		\$ 2.00	max each																\$ -
Meals per day (Overnight stay required		\$ 61.00	day/person																\$ -
Overnight Mail - oversized box		\$ 45.00	max each																\$ -
Photocopies B/W (8 1/2" X 11")		\$ 0.15	each																\$ -
Photocopies Color (11" X 17")		\$ 2.00	each																\$ -
Photocopies Color (8 1/2" X 11")		\$ 1.00	each																\$ -
Plots (B/W on Bond)		\$ 2.00	per sq. ft.																\$ -
Plots (Color on Bond)		\$ 4.00	per sq. ft.																\$ -
Plots (Color on Photographic Paper)		\$ 5.00	per sq. ft.																\$ -
SUBTOTAL DIRECT EXPENSES																			\$ -

SUMMARY	
TOTAL COSTS FOR SUB ONLY (includes multiplier)	\$ 3,545.00
NON-SALARY (OTHER DIRECT EXPENSES)	\$ -
GRAND TOTAL	\$ 3,545.00