WORK AUTHORIZATION NO. 1

PROJECT: Corridor C SH 29 Bypass

This Work Authorization is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated _____ and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and **Atkins North America, Inc.** (the "Engineer").

Part1. 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 **$595,734.35.**

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 **December 31, 2017**. 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. County believes it has sufficient funds currently available and authorized for expenditure to finance the costs of this Work Authorization. Engineer understands and agrees that County's payment of amounts under this Work Authorization is contingent on the County receiving appropriations or other expenditure authority sufficient to allow the County, in the exercise of reasonable administrative discretion, to continue to make payments under this Contract. It is further understood and agreed by Engineer that County shall have the right to terminate this Contract at the end of any County fiscal year if the governing body of County does not appropriate sufficient funds as determined by County's budget for the fiscal year in question. County may effect such termination by giving written notice of termination to Engineer.

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

EXECUTED this ____ day of _____, 20___.

ENGINEER:	COUNTY:
Atkins North America, Inc.	Williamson County, Texas
By: _____ Signature	By: _____ Signature
Robert Bailey Printed Name	Dan A. Gattis Printed Name
Vice President Title	County Judge Title

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

EXECUTED this ____ day of _____, 20___.

ENGINEER:

Atkins North America, Inc.

By: _____
Signature

Robert Bailey
Printed Name

Vice President
Title

COUNTY:

Williamson County, Texas

By: _____
Signature

Dan A. Gattis
Printed Name

County Judge
Title

LIST OF ATTACHMENTS

Attachment A - Services to be Provided by County

Attachment B - Services to be Provided by Engineer

Attachment C - Work Schedule

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ATTACHMENT A
SERVICES TO BE PROVIDED BY THE COUNTY
PRELIMINARY ENGINEERING FOR CORRIDOR C SH 29 BYPASS

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 and Federal agencies required for this project.

3. Obtain Rights of Entry from landowners that are unwilling to grant access to the Engineer.

4. Provide available appropriate County data on file, 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, design year traffic projections and transportations plans).

5. Provide available criteria and full information as to the client's requirements for the project. Provide examples of acceptable format for the required deliverables.

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 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 subconsultants.

11. Negotiate with all utility companies for any agreements and/or relocations required.

12. Provide an agent as necessary to secure proposed ROW.

13. Provide construction observation and review contractor pay applications and progress.

14. Provide Engineer with Contractor submittals, Requests for Information (RFI's), shop drawings, and correspondence.

15. Review Engineer progress, submittals, and plan changes.

16. Provide traffic data or information needed for the project.

17. Provide aerial photography and contours to be used for the development of the exhibits and schematics.

18. Provide any existing survey data and utility information.

19. Coordinate with the City of Georgetown to obtain and provide schematics and Microstation files for the ultimate facility being tied into at the west end of the project and any transportation planning related study documents.

20. Coordinate with CAMPO to obtain and provide the regional transportation plan.

21. Coordinate with TxDOT to obtain and provide drawings, Microstation files, feasibility study report and information on selected route options for the ultimate facility being tied into at the east end of the project.

22. Coordinate with agencies, as applicable, to obtain and provide any applicable engineering plans, schematics, electronic files, reports, studies, and raw data need to perform the services in Exhibit B.

ATTACHMENT B
SERVICES TO BE PROVIDED BY THE ENGINEER
PRELIMINARY ENGINEERING FOR CORRIDOR C SH 29 BYPASS

PROJECT DESCRIPTION

Existing Facility

This is a new location project, so there is no existing facility. The proposed project will begin where existing Sam Houston Avenue terminates approximately 0.6 miles west of SH 130 and ends approximately where existing SH 29 crosses the San Gabriel River near CR 120. The proposed project will cross existing SH 130, CR 106 and possibly CR 100.

Proposed Facility

The proposed SH 29 Bypass project includes a new location controlled access facility (Corridor C) between Sam Houston Avenue on the west, and the future SH 29 facility on the east. It also includes a fully directional interchange at SH 130 and an interchange at SH 29. The ultimate project will cross the San Gabriel River. The typical section includes a divided expressway section of 2 mainlanes and 3 frontage road lanes in each direction. The mainlanes will have paved shoulders with an open drainage system and the frontage roads will have curb and gutter with a closed drainage system. There will be a shared use path on both sides of the facility. The right of way width is expected to be approximately 350'. These elements and others are shown in the Williamson County MLE 2 typical section and design criteria.

Design Criteria

The proposed design criteria for the project will be developed from Williamson County, City of Georgetown and TxDOT design criteria. It is anticipated that in most cases the most stringent of the design criteria will be used. The design criteria manuals to be used will be those in place at the time this work authorization is executed.

1. PROJECT MANAGEMENT

   a. Shall 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 REPORTS, INVOICES, AND BILLINGS:

      - Submit monthly progress status reports to the GEC. Progress reports will include: 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 for up to 7 months 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, 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.
- Correspondence and coordination will be handled through & with the concurrence of the GEC.
- Manage Project activities (including technical support data, 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, correspond with the County and its representatives, and assist the County and its representatives in preparing responses to Project-related inquiries.
- Maintain a log of all stakeholder comments and inquiries received via phone, email, web form and written comments submitted at public meetings. Include stakeholder contact information and any responses provided.

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 up to a total of 4 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.

g. DELIVERABLES:

- Monthly Invoices and Progress Reports
- Project Specific QA/QC Plan
- Meeting Minutes, Sign-In Sheets, and Agendas
- Project Schedule

2. <u>ROUTE AND DESIGN STUDIES</u>

a. DATA COLLECTION:

- Perform record research and obtaining existing information, including but not limited to: as-built plans, construction plans, right of way maps, environmental reports, 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.

- Review aerial photography and contours provided by Williamson County. Minimal survey, no aerial photography or mapping is included in this scope of services. County provided aerial photography and contours will be the basis for developing all constraints maps and schematics.

- Conduct a field investigation of the proposed roadway alignment and the surrounding area to determine field conditions including photographic record of notable existing features. This field investigation will be limited to accessible areas within the existing right-of-way.

- Develop and maintain adjacent property ownership information (including owner's name, mailing address, property address, property id number) spreadsheet for up to 25 properties to be used for disseminating project information.

- Review the data collected and organize the information.

b. STAKEHOLDER AND PROPERTY OWNER COORDINATION (4 stakeholder and 2 affected property owner meetings assumed):

- Schedule, coordinate logistics for and prepare agendas, sign in sheets, meeting minutes, discussion topics, presentations, overall exhibits, and maps of the project limits for stakeholder coordination and property owner meetings.

- Coordinate with affected local agencies, County's consultants, and affected property owners. Includes preparing/reviewing presentations and other communications materials for elected official briefings.

- Conduct up to 4 meetings with stakeholders and up to 2 Meetings with Affected Property Owners (MAPOs)

c. CONSTRAINTS MAP (Up to 3 preliminary alignments assumed that connect on the east to the two TxDOT 2016 Feasibility Study alternatives A and D):

- Obtain and update periodically publicly available information including but not limited to: locations of public buildings (schools, churches, parks), aerial photography, National Wetland Inventory Maps, County Soil Survey Maps, TCEQ & EPA Hazardous Materials Database Information, FEMA Floodplain Information, Vegetation Information, Environmental Information from the appropriate local, state, or federal agencies, Threatened & Endangered Species Information.

- Conduct a regulatory records review to identify listed hazardous waste generators, treatment, storage and disposal facilities; solid waste landfills, unauthorized sites; documented spills; oil and gas exploration and production sites; and underground storage tank sites within the proposed site location. The review will also identify other environmental risks along the project corridor.

- Conduct field reconnaissance to visually inspect the project site for additional risks and field verify any environmental risks identified by the regulatory records review. This field investigation will be limited to accessible areas within the existing right-of-way.

- Review the latest 2040 CAMPO model, Williamson County's Long Range Transportation Plan and other local and regional transportation plans to review and gather information of projects that could impact Corridor C. Review historic traffic data, population growth, and available forecasts from the CAMPO model. The corridor safety and traffic operations under No-Build condition will then be evaluated to assess the safety and operational deficiencies along the corridor under No-Build conditions.

The resultant observations will be utilized in developing purpose and need.

- Develop a constraints map that includes environmental concerns, known constraints (structures, floodplain), aerial photography, contour information, utility information, based on research of public databases and sources.

- Begin development of preliminary alignments and preliminary costs for use in soliciting input during coordination meetings with stakeholders.

- Structures anticipated to be considered during preliminary alignment development include the following 26 bridges:

    1. 8 Direct Connectors at SH 130
    2. CR 106 overpass (EB and WB mainlanes; Frontage roads at grade with turnarounds)
    3. Mankins Branch bridge (EB/WB mainlanes, EB/WB frontage roads)
    4. Un-named dry creek bridge (EB/WB mainlanes, EB/WB frontage roads)
    5. McShepherd Rd overpass (EB and WB mainlanes)
    6. SH 29 overpass (EB and WB mainlanes)
    7. San Gabriel River bridge (EB/WB mainlanes, EB/WB frontage roads)

- Develop evaluation criteria to assist in evaluating route alignment alternatives.

- Quantify potential effects of the preliminary alignments based on the evaluation criteria.

- Conduct screening process for eliminating non-viable corridors and select recommended alignment.

d. DELIVERABLES:

- Meeting Minutes, Sign-In Sheets, Agendas, Presentations, Maps, and Exhibits for all Stakeholder Coordination Meetings.

- Constraints Map with Preliminary Alignments and preliminary recommendation

3. PUBLIC INVOLVEMENT

a. The Engineer will provide general public outreach and engagement throughout the project. A database will be developed and maintained in Excel format which includes nearby property owners and residents, businesses, churches, educational/community organizations, elected/public officials, and any interested individuals. The Engineer will identify and reach out to key stakeholders that may be interested and will collect contact information for updates.

b. OPEN HOUSE (2 open houses assumed):

- Prepare handout materials, presentation, and exhibits for public viewing. Develop an invitation list of affected property owners, elected officials, stakeholders, school districts, local affected agencies, utility owners, and any other individuals who have showed interest in the project.

- Plan, schedule, conduct, and facilitate 2 public meetings to share project information with and collect feedback from citizens and stakeholders. Tasks may include, but not limited to:

    1. Developing invitations/advertisements/invitation lists

        a. For Open House #1, develop a letter for up to 30 households to announce the start of the project and the first public meeting

    2. Coordinate meeting announcements such as letters, email notices, signage, media releases, website and social media postings, outreach/notifications to elected officials (letters and emails), and up to 2 legal notices.
    3. Coordinate meeting logistics, including securing locations and conducting site visits.
    4. Provide experienced meeting facilitator and support staff to attend first open house to solicit input from the general public.
    5. Prepare/review handouts and exhibits for public viewing.
    6. Facilitator preparations, including developing an annotated agenda
    7. Hold and participate in meeting rehearsals

8. Prepare public meeting summaries and responses to any comments or questions provided at the open houses.
9. Coordinate court reporter and translators (if needed)

c. COMMUNICATIONS MATERIALS AND TOOLS

- Prepare communications materials and tools to explain project information and key messages. Materials will include:

1. Frequently Asked Questions will be developed at project commencement and will serve as the foundation for developing all other communication materials and key messages.

2. Website copy will be provided to the County as needed.

3. Copy for up to 4 eNewsletters/eBlasts will be provided to the County to promote public meetings and provide project updates.

4. Copy and layout/design for up to 2 fact sheet or handout. Williamson County Road Bond templates/branding will be utilized.

d. DELIVERABLES:

- Sign-In Sheets, Handouts, Presentations, Maps, and Exhibits for Open Houses.
- Open House Summary and comment responses for first open house.
- FAQs
- Website copy
- Copy for eNewsletters/eBlasts
- Fact Sheet/Handout

4. <u>RIGHT OF WAY (ROW) MAPPING</u>

a. ROW MAP:

- Research and compile deed/plat records and build a working map from recorded data for tie in and crossing right-of-ways such as SH 130, SH 29, and any county roads along project corridor.

- Calculate approximate search data to recover right of way monumentation and make initial pass to recover right of way monumentation. Perform analysis of gathered data to develop and verify the existing ROW condition.

- Draft preliminary map of existing right of way and list of impacted tracts.

b. DELIVERABLES:

- Preliminary ROW Map for the affected area
- Property owner list in spreadsheet format

5. SURVEYING

a. FIELD SURVEYING:

- Locate and verify aerial LiDAR mapping control to ground targets in the immediate area.

- Establish horizontal and vertical control using 3 intervisible monument pairs at locations at both ends and centroidal to project corridor.

- Survey a sample of ground data (cross sectional) in areas not requiring right of entry e.g., crossing roadways, watercourses, etc.

- Perform coordinate system translations for existing file integration and to generate a homogenous project coordinate system.

b. DELIVERABLES:

- DGN file of ground truthing data and crossing roadway information. This will not be a DTM or have associated TIN files.
- DGN of collated and translated files
- Control monument data in ACSII format
- ASCII file of ground truthing data

6. SCHEMATIC DEVELOPMENT (Not Applicable)

7. DRAINAGE STUDY

a. HYDROLOGIC/HYDRAULIC MODELING (1 river crossing and 2 major channel crossings, 6 cross drainage structures total assumed):

- Prepare preliminary hydrologic and hydraulic review for up to three (3) alignment alternatives. The analysis will include: identification of cross drainage structure locations and preliminary sizing of structures; and recommended minimum pavement elevations based on cross drainage flood elevations. HEC-RAS shall be utilized for modeling all river and major channel crossings. HY-8 shall be used for non-bridge class culverts.

- Develop existing channel cross sections based on data collection.

- Exhibits and analysis will be prepared in the GIS environment to the extent practical.

b. FEMA COORDINATION:

- Coordinate with Local Floodplain Administrator as necessary throughout the project.

8. DELIVERABLES

a. DOCUMENTS:

- All contract documents, including hard copies and electronic files, shall be turned over to the County at each milestone and at the completion of the project. Documents shall be posted to the County's project management database as requested. The deliverables for this work authorization are those noted at the end of sections 1 through 5. Other efforts will be a work in progress that may have an associated deliverable in a future work authorization.

9. EXCLUSIONS

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

- Traffic analysis or traffic data collection

- Aerial mapping

- Right-of-way acquisition document preparation, acquisition or cost estimates

- Environmental field work or studies

- Permitting or agency coordination

- Geotechnical field work, testing, analysis or design

- Utility coordination or relocation estimates
- PS&E level design
- Construction phase services
- LOMR and/or CLOMR
- Plan/profile of parallel drainage systems
- Scour analysis

Attachment C - Work Schedule
Transportation Corridor C SH 29 Bypass
Atkins North America, Inc.

		FY 2017						
		Mar	Apr	May	Jun	Jul	Aug	Sep
	Work Authorization Execution							
Task 1	**Project Management**							
Task 2	**Route and Design Studies**							
a.	Data Collection							
b.	Stakeholder and Property Owner Coordination							
c.	Constraints Map							
Task 3	**Public Involvement**							
a.	Public Outreach and Engagement							
b.	Open Houses							
c.	Communications Materials and Tools							
Task 4	**Right of Way Mapping**							
Task 5	**Surveying**							
Task 6	**Schematic Development**							
Task 7	**Drainage Study**							
a.	Hydrologic/Hydraulic Modeling							
b.	FEMA Coordination							
c.	Impact and Mitigation Analysis							

Corridor C SH 29 Bypass
Work Authorization No. 1
Attachment D - Fee Schedule

TASK Atkins North America, Inc.	Atkins	KFA	PE Structural	Rifeline	Bain & Co.	Inland Geodetics	Total Labor Cost	Total Labor Cost
1. Project Management (7 months)								$ 69,786.00
A. Monthly Progress Reports, Invoices, and Billings	$ 7,562.00	$ 1,920.00	$ 1,260.00	$ 464.00	$ 712.00	$ -	$ 11,918.00	
B. Quality Assurance and Quality Control Plan	$ 8,860.00	$ 1,500.00	$ -	$ -	$ -	$ -	$ 10,360.00	
C. Project Coordination & Administration	$ 11,335.00	$ 2,320.00	$ 1,260.00	$ 1,160.00	$ 1,980.00	$ -	$ 18,055.00	
D. Progress/Coordination Meetings	$ 10,749.00	$ 3,530.00	$ 1,720.00	$ 4,160.00	$ 1,850.00	$ -	$ 22,009.00	
E. Project Schedule	$ 7,444.00	$ -	$ -	$ -	$ -	$ -	$ 7,444.00	
2. Route and Design Studies								$ 286,141.00
A. Data Collection	$ 29,984.00	$ 5,500.00	$ 1,440.00	$ -	$ -	$ -	$ 36,924.00	
B. Stakeholder and Property Owner Coordination	$ 21,877.00	$ -	$ -	$ 9,220.00	$ 8,110.00	$ -	$ 39,207.00	
C. Constraints Map	$ 202,870.00	$ -	$ 7,140.00	$ -	$ -	$ -	$ 210,010.00	
3. Public Involvement								$ 127,145.00
A. Stakeholder Database	$ 4,048.00	$ -	$ -	$ 400.00	$ 1,810.00	$ -	$ 6,258.00	
B. Open Houses	$ 73,877.00	$ -	$ -	$ 17,600.00	$ 16,840.00	$ -	$ 108,317.00	
C. Communication Materials and Tools	$ 5,540.00	$ -	$ -	$ 3,000.00	$ 4,030.00	$ -	$ 12,570.00	
4. Right of Way Mapping								$ 22,480.00
A. Right of Way Mapping	$ 4,560.00	$ -	$ -	$ -	$ -	$ 17,920.00	$ 22,480.00	
5. Surveying								$ 47,138.00
A. Surveying	$ 20,900.00	$ -	$ -	$ -	$ -	$ 26,238.00	$ 47,138.00	
6. Schematic Development (Not Applicable)								$ -
7. Drainage Study								$ 26,874.00
A. Hydrologic/Hydraulic Modeling	$ 4,324.00	$ 22,050.00	$ -	$ -	$ -		$ 26,374.00	
B. FEMA Coordination	$ 500.00	$ -	$ -	$ -	$ -		$ 500.00	
LABOR COST:	**$ 414,430.00**	**$ 36,820.00**	**$ 12,820.00**	**$ 36,004.00**	**$ 35,332.00**	**$ 44,158.00**	**$ 579,564.00**	**$ 579,564.00**
TOTAL DIRECT EXPENSES COST:	**$ 5,496.00**	**$ 214.00**	**$ 272.75**	**$ 1,944.40**	**$ 8,243.20**	**$ -**	**$ 16,170.35**	
TOTAL PROJECT COST:	**$ 419,926.00**	**$ 37,034.00**	**$ 13,092.75**	**$ 37,948.40**	**$ 43,575.20**	**$ 44,158.00**	**$ 595,734.35**	

Corridor C SH 29 Bypass
Work Authorization No. 1
Attachment D - Fee Schedule

TASK Hourly Rate: Atkins North America, Inc.	SHEETS/ UNITS	PRINCIPAL $ 275.00	SR ADVISOR/SR PM $ 275.00	PROJECT MANAGER $250.00	SR ENGINEER II $270.00	SR ENGINEER I $210.00	PROJECT ENGINEER $160.00	DESIGN ENGINEER $123.00	EIT $100.00	SR. ENGINEER TECH $130.00	ENGINEER TECH $100.00	SR CAD OPERATOR $123.00	CAD OPERATOR $77.00	SR ENV PLANNER $185.00	ENV PLANNER $170.00	JR ENV PLANNER $115.00	SR ENV SPECIALIST $135.00	ENV SPECIALIST $110.00	JR ENV SPECIALIST $92.00	SR GIS ANALYST $123.00
																	Hours			
1. Project Management (7 months)																				
A. Monthly Progress Reports, Invoices, and Billings	7			24																
B. Quality Assurance and Quality Control Plan	1		2	18	4		8							4						
C. Project Coordination & Administration	1			24	4		2							4						
D. Progress/Coordination Meetings	4			18	10		10							9						
E. Project Schedule	1			10	4		4							4						
2. Route and Design Studies																				
A. Data Collection	1			16	16		32							16		40		16	16	32
B. Stakeholder and Property Owner Coordination	6			24	18		18							5		12				36
C. Constraints Map																				
Publicly available environmental information	1						20							16		64				80
Regulatory records review	1													16		48				24
Field reconnaissance	1			8	8		12							8		8				
Initial constraints map	1		2	8	8		16							16		80				80
Alignment alternatives	1		24	24	64	32	240		80	200				8		32				
Recommended alignment exhibit and tech memo	1																			
3. Public Involvement																				
A. Stakeholder Database	1			8										8						
B. Open Houses	2	5	18	32	64		48							32	32					128
C. Communication Materials and Tools	1			8	8		4							4						
4. Right of Way Mapping																				
A. Right of Way Mapping	1			8			16													
5. Surveying																				
A. Surveying	1			8			12													100
6. Schematic Development (Not Applicable)																				
7. Drainage Study																				
A. Hydrologic/Hydraulic Modeling	1			2		4		8	20											
B. FEMA Coordination	1			2																
TOTAL NUMBER OF SHEETS:																				
HOURS:		5	46	242	288	36	442	8	100	200				150	32	284		16	16	480
LABOR COST:		$ 1,375	$ 12,650	$ 60,500	$ 56,160	$ 7,560	$ 70,720	$ 984	$ 10,000	$ 26,000	$ -	$ -	$ -	$ 27,750	$ 5,440	$ 32,660	$ -	$ 1,760	$ 1,472	$ 59,040
		0.2%	1.7%	8.9%	7.6%	1.3%	16.2%	0.3%	3.7%	7.3%				5.5%	1.2%	10.4%		0.6%	0.6%	17.6%

DIRECT EXPENSES:						
	Travel:			Rate		
	Mileage	1000	miles	$0.535		$535.00
	Tolls	50	each	$5.00		$250.00
	Copies:					
	B/W (8.5x11)	500	each	$0.10		$50.00
	B/W (11x17)	250	each	$0.15		$37.50
	Color (8.5x11)	500	each	$0.25		$125.00
	Color (11x17)	250	each	$0.50		$125.00
	Misc Expenses:					
	1/4" Foam Core Mounting	1000	sf	$3.00		$3,000.00
	Large Format Color Plotting	1200	sf	$1.00		$1,200.00
	Postage	50	each	$0.47		$23.50
	Courier	5	each	$30.00		$150.00
TOTAL DIRECT COST:						$ 5,496.00
TOTAL PROJECT COST:						$ 419,926.00

Corridor C SH 29 Bypass
Work Authorization No. 1
Attachment D - Fee Schedule

TASK Hourly Rate: Atkins North America, Inc.	GIS ANALYST $78.00	GRAPHICS TECHNICIAN $75.00	SR PI SPECIALIST $153.00	PI SPECIALIST $123.00	JR PI SPECIALIST $92.00	SR TRANS PLANNER $185.00	TRANS PLANNER $145.00	JR TRANS PLANNER $101.00	SCHEDULER $138.00	CONTRACT SPECIALIST $108.00	ADMIN/ CLERICAL $71.00	Sub Total Hours	Hr/Unit	Labor Cost
1. Project Management (7 months)														
A. Monthly Progress Reports, Invoices, and Billings											22	46	6.6	$ 7,562.00
B. Quality Assurance and Quality Control Plan											10	46	46.0	$ 8,860.00
C. Project Coordination & Administration											45	79	79.0	$ 11,335.00
D. Progress/Coordination Meetings											4	51	12.8	$ 10,749.00
E. Project Schedule									18			40	40.0	$ 7,444.00
2. Route and Design Studies														
A. Data Collection	16										8	208	208.0	$ 29,984.00
B. Stakeholder and Property Owner Coordination	18											131	21.8	$ 21,877.00
C. Constraints Map														
Publicly available environmental information	20											200	200.0	$ 24,920.00
Regulatory records review	16											104	104.0	$ 12,680.00
Field reconnaissance												44	44.0	$ 8,480.00
Initial constraints map	40					40						290	290.0	$ 39,790.00
Alignment alternatives												744	744.0	$ 117,000.00
Recommended alignment exhibit and tech memo											40			$ -
3. Public Involvement														
A. Stakeholder Database												24	24.0	$ 4,048.00
B. Open Houses	96										8	455	227.5	$ 73,877.00
C. Communication Materials and Tools												24	24.0	$ 5,540.00
4. Right of Way Mapping														
A. Right of Way Mapping												24	24.0	$ 4,560.00
5. Surveying														
A. Surveying	60											180	180.0	$ 20,900.00
6. Schematic Development (Not Applicable)														
7. Drainage Study														
A. Hydrologic/Hydraulic Modeling												34	34.0	$ 4,324.00
B. FEMA Coordination												2	2.0	$ 500.00
TOTAL NUMBER OF SHEETS:														
HOURS:	266					40			18		137	Column Total = 2.72%		
LABOR COST:	$ 20,748	$ -	$ -	$ -	$ -	$ 7,400	$ -	$ -	$ 2,484	$ -	$ 9,727	Row Total = 2.72%		$ 414,430.00
	5.0%					1.8%			0.7%		2.3%			$ 414,430.00

DIRECT EXPENSES:
TOTAL DIRECT COST:
TOTAL PROJECT COST:

Corridor C SH 29 Bypass
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Attachment D - Fee Schedule

TASK Hourly Rate: K Friese & Associates, Inc.	SHEETS/ UNITS	PRINCIPAL $ 250.00	PROJECT MANAGER $ 165.00	SR ENGINEER $157.50	ENGINEER $125.00	EIT $100.00	SR. ENGINEER TECH $90.00	ADMIN/ CLERICAL $75.00							Sub Total Hours	Hr/Unit	Labor Cost
		Hours															
1. Project Management (7 months)																	
A. Monthly Progress Reports, Invoices, and Billings	7		8					8							16	2.3	$ 1,920.00
B. Quality Assurance and Quality Control Plan	1			8											8	8.0	$ 1,500.00
C. Project Coordination & Administration	1	2	8		4										14	14.0	$ 2,320.00
D. Progress/Coordination Meetings	4		12		8	4		2							26	6.5	$ 3,530.00
E. Project Schedule	1																$ -
2. Route and Design Studies																	
A. Data Collection	1		6	4	8	24	4								46	46.0	$ 5,500.00
B. Stakeholder and Property Owner Coordination	6																$ -
C. Constraints Map																	
Publicly available environmental information	1																$ -
Regulatory records review	1																$ -
Field reconnaissance	1																$ -
Initial constraints map	1																$ -
Alignment alternatives	1																$ -
3. Public Involvement																	
A. Stakeholder Database	1																$ -
B. Open Houses	2																$ -
C. Communication Materials and Tools	1																$ -
4. Right of Way Mapping																	
A. Right of Way Mapping	1																$ -
5. Surveying																	
A. Surveying	1																$ -
6. Schematic Development (Not Applicable)																	
7. Drainage Study																	
A. Hydrologic/Hydraulic Modeling	1		16	8	54	96	14	4							192	192.0	$ 22,050.00
B. FEMA Coordination	1																$ -
TOTAL NUMBER OF SHEETS:																	
HOURS:		2	50	20	74	124	18	14							Column Total = 392		
LABOR COST:		$ 500	$ 8,250	$ 3,750	$ 9,250	$ 12,400	$ 1,620	$ 1,050							Row Total = 392		$ 36,820.00
		0.7%	16.6%	6.6%	24.5%	41.1%	6.0%	4.6%									$ 36,820.00

DIRECT EXPENSES:								
	Travel:				Rate			
	Mileage			400	miles	$0.535		$214.00
	Tolls				each	$5.00		
	Copies:							
	B&W				each	$0.10		
	Color (8.5x11)				each	$0.75		
	Color (11x17)				each	$2.00		
	Misc Expenses:							
	Foam Core Mounting				sf	$10.00		
	Postage				each	$0.47		
	Courier				each	$30.00		
TOTAL DIRECT COST:								$ 214.00
TOTAL PROJECT COST:								$ 37,034.00

Corridor C SH 29 Bypass
Work Authorization No. 1
Attachment D - Fee Schedule

TASK Hourly Rate: PE Structural Consultants, Inc.	SHEETS/ UNITS	PRINCIPAL ENGINEER $ 200.00	SR QC ENGINEER $ 165.00	SR PROJECT MANAGER $155.00	SR ENGINEER $145.00	PROJECT ENGINEER $120.00	DESIGN ENGINEER $105.00	EIT II $95.00	EIT I $87.00	GRADUATE ENGINEER $70.00	SR CAD MANAGER $120.00	CAD TECHNICIAN $85.00	JR CAD TECHNICIAN $70.00	ADMIN CLERICAL $60.00	Sub Total Hours	Hr/Unit	Labor Cost
		Hours															
1. Project Management (7 months)																	
A. Monthly Progress Reports, Invoices, and Billings	7	2		4										4	10	1.4	$ 1,260.00
B. Quality Assurance and Quality Control Plan	1																$ -
C. Project Coordination & Administration	1	2		4										4	10	10.0	$ 1,260.00
D. Progress/Coordination Meetings	4	2		4	4									2	12	3.0	$ 1,720.00
E. Project Schedule	1																$ -
2. Roads and Design Studies																	
A. Data Collection	1	2		4			4								10	10.0	$ 1,440.00
B. Stakeholder and Property Owner Coordination	6																$ -
C. Constraints Map																	
Publicly available environmental information	1																$ -
Regulatory records review	1																$ -
Field reconnaissance	1																$ -
Initial constraints map	1																$ -
Alignment alternatives	1	4		8	12	12		8			4	8			56	56.0	$ 7,140.00
3. Public Involvement																	
A. Stakeholder Database	1																$ -
B. Open Houses	2																$ -
C. Communication Materials and Tools	1																$ -
4. Right of Way Mapping																	
A. Right of Way Mapping	1																$ -
5. Surveying																	
A. Surveying	1																$ -
6. Schematic Development (Not Applicable)																	$ -
7. Drainage Study																	
A. Hydrologic/Hydraulic Modeling	1																$ -
B. FEMA Coordination	1																$ -
TOTAL NUMBER OF SHEETS:																	$ -
HOURS:		32		24	16	12	4	8			4	8		10	Column Total = 66 Row Total = 66		
LABOR COST:		$ 2,400	$ -	$ 3,720	$ 2,320	$ 1,440	$ 420	$ 760	$ -	$ -	$ 480	$ 680	$ -	$ 600			$ 12,820.00
		12.2%		24.5%	16.3%	12.2%	4.1%	8.2%			4.1%	8.2%		10.2%			$ 12,820.00

DIRECT EXPENSES:						
	Travel:			Rate		
	Mileage	150	miles	$0.535		$80.25
	Tolls		each	$5.00		
	Copies:					
	B&W (8.5x11)	100	each	$0.10		$10.00
	B&W (11x17)	50	each	$0.15		$7.50
	Color (8.5x11)	100	each	$1.00		$100.00
	Color (11x17)	50	each	$1.50		$75.00
	Misc Expenses:					
	Foam Core Mounting		sf	$10.00		
	Postage		each	$0.47		
	Courier		each	$30.00		
TOTAL DIRECT COST:						$ 272.75
TOTAL PROJECT COST:						$ 13,092.75

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TASK Hourly Rate: Rifeline, LLC	SHEETS/ UNITS	PRESIDENT $ 200.00	VICE PRESIDENT $ 180.00	SR PUBLIC AFFAIRS MANAGER $180.00	DIRECTOR OF COMM. $170.00	PI MANAGER $160.00	COMMUNITY OUTREACH MANAGER $150.00	COMMUNITY OUTREACH COOR. $120.00	ADMIN/ CLERICAL $58.00					Sub Total Hours	Hr/Unit	Labor Cost
		Hours														
1. Project Management (7 months)																
A. Monthly Progress Reports, Invoices, and Billings	7								8					8	1.1	$ 464.00
B. Quality Assurance and Quality Control Plan	1															$ -
C. Project Coordination & Administration	1	4		2										6	6.0	$ 1,160.00
D. Progress/Coordination Meetings	4	10	12											22	5.5	$ 4,160.00
E. Project Schedule	1															$ -
2. Route and Design Studies																
A. Data Collection	1															$ -
B. Stakeholder and Property Owner Coordination	6	38	9											47	7.8	$ 9,220.00
C. Constraints Map																
Publicly available environmental information	1															$ -
Regulatory records review	1															$ -
Field reconnaissance	1															$ -
Initial constraints map	1															$ -
Alignment alternatives	1															$ -
3. Public Involvement																
A. Stakeholder Database	1	2												2	2.0	$ 400.00
B. Open Houses	2	34	60											94	47.0	$ 17,600.00
C. Communication Materials and Tools	1	6	10											16	16.0	$ 3,000.00
4. Right of Way Mapping																
A. Right of Way Mapping	1															$ -
5. Surveying																
A. Surveying	1															$ -
6. Schematic Development (Not Applicable)																$ -
7. Drainage Study																
A. Hydrologic/Hydraulic Modeling	1															$ -
B. H:MA Coordination	1															$ -
TOTAL NUMBER OF SHEETS:																$ -
HOURS:		94	91	2					8					Column Total = 195 Row Total = 195		
LABOR COST:		$ 18,800	$ 16,380	$ 360	$ -	$ -	$ -	$ -	$ 464							$ 36,004.00
		38.2%	46.7%	1.0%					4.1%							$ 36,004.00

DIRECT EXPENSES:						
Travel:				Rate		
Mileage	2000	miles	$0.535		$1,070.00	
Tolls		each	$5.00			
Parking	8	day	$10.00		$80.00	
Copies:						
B&W (8.5x11)	350	each	$0.10		$35.00	
Color (8.5x11)	1000	each	$0.75		$750.00	
Color (11x17)		each	$2.00			
Misc Expenses:						
Foam Core Mounting		sf	$10.00			
Postage	20	each	$0.47		$9.40	
Courier		each	$30.00			
TOTAL DIRECT COST:					$ 1,944.40	
TOTAL PROJECT COST:					$ 37,948.40	

Corridor C SH 29 Bypass
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TASK Hourly Rate: Role & Co.	SHEETS/ UNITS	PRINCIPAL $ 185.00	ACCOUNT MANAGER $ 140.00	ACCOUNT COOR. $120.00	GRAPHIC DESIGNER $125.00	ADMIN/ CLERICAL $58.00	Hours								Sub Total Hours	Hr/Unit	Labor Cost
1. Project Management (7 months)																	
A. Monthly Progress Reports, Invoices, and Billings	7			4		4									$	1.1	$ 712.00
B. Quality Assurance and Quality Control Plan	1																$ -
C. Project Coordination & Administration	1	4	2	8											14	14.0	$ 1,980.00
D. Progress/Coordination Meetings	4	10													10	2.5	$ 1,850.00
E. Project Schedule	1																$ -
2. Route and Design Studies																	
A. Data Collection	1																$ -
B. Stakeholder and Property Owner Coordination	6	38		9											47	7.8	$ 8,110.00
C. Constraints Map																	
Publicly available environmental information	1																$ -
Regulatory records review	1																$ -
Field reconnaissance	1																$ -
Initial constraints map	1																$ -
Alignment alternatives	1																$ -
3. Public Involvement																	
A. Stakeholder Database	1	2		12											14	14.0	$ 1,810.00
B. Open Houses	2	32	30	56											118	59.0	$ 16,840.00
C. Communication Materials and Tools	1	10	12		4										26	26.0	$ 4,030.00
4. Right of Way Mapping																	
A. Right of Way Mapping	1																$ -
5. Surveying																	
A. Surveying	1																$ -
6. Schematic Development (Not Applicable)																	
7. Drainage Study																	
A. Hydrologic/Hydraulic Modeling	1																$ -
B. FEMA Coordination	1																$ -
TOTAL NUMBER OF SHEETS:																	
HOURS:		96	44	89	4	4									Column Total = 237 Row Total = 237		
LABOR COST:		$ 17,760	$ 6,160	$ 10,680	$ 500	$ 232											$ 35,332.80
		40.5%	18.6%	37.6%	1.7%	1.7%											$ 35,332.00

DIRECT EXPENSES:					
Travel:			Rate		
Mileage	2000	miles	$0.535		$1,070.00
Tolls		each	$5.00		
Parking	8	per day	$10.00		$80.00
Copies:					
B&W (8.5x11)	350	each	$0.10		$35.00
Color (8.5x11)	1000	each	$0.75		$750.00
Color (11x17)		each	$2.00		
PI Expenses:					
Legal Notice (newspaper)	2	each	$2,000.00		$4,000.00
Public Meeting Refreshments	2	per meeting	$20.00		$40.00
Public Meeting Supplies	2	per meeting	$20.00		$40.00
Facility rental	2	per event	$400.00		$800.00
Custodian	6	per hour	$50.00		$300.00
Audio-Visual Equipment Rental	2	per event	$400.00		$800.00
Meeting Signage	6	per unit	$50.00		$300.00
Misc Expenses:					
Foam Core Mounting		sf	$10.00		
Postage	60	each	$0.47		$28.20
Courier		each	$30.00		
TOTAL DIRECT COST:					$ 8,243.20
TOTAL PROJECT COST:					$ 43,575.20

Corridor C SH 29 Bypass
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TASK Inland Geodetics, LLC Hourly Rate:	SHEETS/ UNITS	PROJECT MANAGER $ 140.00	LICENSED STATE LAND SURVEYOR $ 150.00	RPLS $135.00	SURVEY TECH $90.00	ADMIN/ CLERICAL $54.00	3 PERSON FIELD CREW $142.00	3 PERSON FIELD CREW $165.00	4 PERSON FIELD CREW $185.00	ADDITIONAL CREWMEMBER $48.00	GPS FIELD OPERATOR $120.00				Sub Total Hours	Hr/Unit	Labor Cost
		Hours															
1. Project Management (7 months)																	
A. Monthly Progress Reports, Invoices, and Billings	7																$ -
B. Quality Assurance and Quality Control Plan	1																$ -
C. Project Coordination & Administration	1																$ -
D. Progress/Coordination Meetings	4																$ -
E. Project Schedule	1																$ -
2. Route and Design Studies																	$ -
A. Data Collection	1																
B. Stakeholder and Property Owner Coordination	6																$ -
C. Constraints Map																	$ -
Publicly available environmental information	1																
Regulatory records review	1																$ -
Field reconnaissance	3																$ -
Initial constraints map	1																$ -
Alignment alternatives	1																$ -
3. Public Involvement																	$ -
A. Stakeholder Database	1																
B. Open Houses	2																$ -
C. Communication Materials and Tools	1																$ -
4. Right of Way Mapping																	$ -
A. Right of Way Mapping	1			32	80	8	24				16				160	160.0	$ 17,920.00
5. Surveying																	
A. Surveying	1	6		38	44	6	56				64				214	214.0	$ 28,238.00
6. Schematic Development (Not Applicable)																	
7. Drainage Study																	
A. Hydrologic/Hydraulic Modeling	1																$ -
B. FEMA Coordination	1																$ -
TOTAL NUMBER OF SHEETS:																	
HOURS:		6		70	124	14	80				80				Column Total = 374		
LABOR COST:		$ 840	$ -	$ 9,450	$ 12,152	$ 756	$ 11,360	$ -	$ -	$ -	$ 9,600	$ -	$ -	$ -	Row Total = 374		$ 44,158.00
		1.6%		18.7%	33.2%	3.7%	21.4%				21.4%						$ 44,158.00

DIRECT EXPENSES:							
	Travel:				Rate		
	Mileage			miles	$0.535		
	Tolls			each	$5.00		
	Copies:						
	B/W (8.5x11)			each	$0.10		
	B/W (11x17)			each	$0.15		
	Color (8.5x11)			each	$0.25		
	Color (11x17)			each	$0.50		
	Misc Expenses:						
	All Terrain Vehicle			day	$55.00		
	Additional Vehicle			day	$60.00		
	Postage			each	$0.47		
	Courier			each	$30.00		
TOTAL DIRECT COST:							$ -
TOTAL PROJECT COST:							$ 44,158.00