



## Travis County Commissioners Court Agenda Request

**Meeting Date:** November 18, 2014

**Prepared By/Phone Number:** Jesus Angel Gómez/512-854-1187; Marvin Brice, CPPB, Assistant Purchasing Agent/512-854-9765

**Elected/Appointed Official/Dept. Head:** Cyd Grimes, C.P.M., CPPO

**Commissioners Court Sponsor:** Judge Samuel T. Biscoe

**Agenda Language:** Approve Modification No. 2 to Contract No. 4400001642, Atkins North America Inc., for Weiss Lane Bridge #229 Improvements Project.

- **Purchasing Recommendation and Comments:** Purchasing concurs with department and recommends approval of requested action. This procurement action meets the compliance requirements as outlined by the statutes.
- Weiss Lane Bridge is currently a functionally obsolete one-lane bridge over the South Fork of Wilbarger Creek. Previous design services performed under this PSA accommodated the replacement of the existing bridge with a new 2 lane bridge (no shoulders) on the existing alignment and within the existing ROW. This design was progressed to 60% completion. It has been determined that the proposed bridge should be wide enough to accommodate shoulders as well as two lanes of traffic. This will necessitate the re-design of the project, shifting the proposed centerline alignment to the west and will require the acquisition of Right of Way on the west side of the project.
- The re-design of this project will consist of the design for the replacement of the bridge with a new two-lane pre-cast concrete bridge with shoulders. The structural design of the bridge will be done entirely using TxDOT standards. The bridge will be designed to clear the 100 year flood with maximum 12 inch overtopping.
- Atkins North America Inc., was initially selected from the pre-qualified list of professional engineering and architectural firms, under RFQ No. Q110243-LP, and was awarded the contract on December 17, 2013.

- Change Order number two (2) is necessary for the revision of the design of the proposed bridge at Wilbarger Creek that will widen the bridge to accommodate wider shoulders on Weiss Lane for pedestrian and bicycle traffic.

This change order is in the amount of \$71,466.50, and increases the contract amount from \$99,846.80 to \$171,313.30. The total aggregate amount increased of the cumulative change order(s) is over the threshold amount for increases and therefore requires court approval.

- Change Order number one (1) was necessary to re-allocate the sub-consultant labor fees, adjusting the labor hours related to the environmental services fees from Reimbursable Expenses to Compensation for Basic Services. This change order did not increase or decrease the contract amount of \$99,846.80. The total amount of this change order was not over the threshold amount and therefore did not require court approval.

- **Contract Expenditures:** Within the last 12 months \$60,465.72 has been spent against this contract.

- **Contract-Related Information:**

Award Amount: \$171,313.30

Contract Type: Professional Services Agreement

Contract Period: Through Completion

- **Contract Modification Information:**

Modification Amount: \$71,466.50

Modification Type: Construction

Modification Period: Through Completion

- **Funding Information:**

Funds Reservation in SAP: 300000880

Fund(s)/Funding Center(s): 4036, 4086/1490190000

Comments:



Angel  
10.9.14  
[Signature]

**TRANSPORTATION AND NATURAL RESOURCES DEPARTMENT**

**STEVEN M. MANILLA, P.E., COUNTY EXECUTIVE**

700 Lavaca Street, 5<sup>th</sup> Floor  
P.O. Box 1748  
Austin, Texas 78767  
(512) 854-9383  
FAX (512) 854-4626

October 8, 2014

RECEIVED  
TRAVIS COUNTY  
PURCHASING  
OFFICE  
2014 OCT -9 AM 8:25

**MEMORANDUM**

**TO:** Marvin Brice, Assistant Purchasing Agent

**FROM:** Morgan Cotten, P.E., County Executive, TNR *MC*

**THROUGH:** Steve Manilla, P.E., County Executive

**SUBJECT:** Modification #2 to Professional Services Agreement (PSA) for the Weiss Lane Bridge Replacement project, Design Services, K #4400001642-Atkins Engineering

This modification is for revising the design of the proposed bridge at Wilbarger Creek in Precinct One.

The proposed design modification is for including wider shoulders on the bridge to match the proposed shoulders on Weiss Lane. The wider shoulders planned for the proposed bridge are intended to accommodate pedestrian and bicycle traffic, but will require acquisition of additional right-of-way.

The design consultant, Atkins, Inc., has requested an additional \$71,466.50 for the design modification.

Financial information for this request is as follows:

Funds Reservation Number 300000880			
Fund	4036	4086	Grand Total
Fund Center	1490190000	1490190000	
G/L Account	522040	522040	
IO/WBS	BGCN.149.000005	BGCN.149.000005	
Amount	\$35,743.89	\$35,722.61	\$71,466.50

TNR recommends approval of Contract Modification #2.

If you have any questions or require additional information, please contact me at extension 49434, or Mo Mortazavi at 47589.

Attachments: Atkins' Proposal for Contract Modification #2.

cc: Cyd Grimes, Purchasing Agent  
Jesus (Angel) Gomez, Purchasing  
Steve Sun, Isabelle Lopez, Tawana Gardner, Mo Mortazavi



Atkins North America, Inc.

Rob Bailey, P.E.  
6504 Bridge Point Pkwy, Suite 200  
Austin, TX 78730  
rob.bailey@atkinsglobal.com

Project No.: Weiss Lane Bridge #229 Improvements

Tel: (512) 327-6840  
Direct no: (512) 342-3225

Mr. Mo Mortazavi, P.E.  
Travis County  
Transportation & Natural Resources  
700 Lavaca St., 5th Floor  
Austin, TX 78701

info@atkinsglobal.com  
atkinsglobal.com/northamerica

October 3, 2014

Weiss Lane Bridge #229 Improvements  
Contract No. 4400001642

Dear Mr. Mortazavi,

We are pleased to submit this proposal for a supplemental agreement for professional engineering services for the above referenced contract to include the preparation of plans, specifications, and estimates (PS&E), and bidding phase services for a bridge replacement and associated approach roadway improvements. The bridge replacement PS&E will be prepared in accordance with the attached Scope of Work document for a total supplemental fee of \$71,466.50.

Please feel free to contact me if you have any questions.

Sincerely,

Rob Bailey, PE  
Highway Design Manager  
ATKINS

75 years of design, engineering and project management excellence



## **REVISED SCOPE OF SERVICES**

### **I. Project Summary**

Weiss Lane Bridge is currently a functionally obsolete one-lane bridge over the South Fork of Wilbarger Creek. Previous design services performed under this Professional Services Agreement accommodated the replacement of the existing bridge with a new 2 lane bridge (no shoulders) on the existing alignment and within the existing ROW. This design was progressed to 60% completion. It has been determined that the proposed bridge should be wide enough to accommodate shoulders as well as two lanes of traffic. This will necessitate the re-design of the project, shifting the proposed centerline alignment to the west and will require the acquisition of ROW on the west side of the project.

The re-design of this project will consist of the design for the replacement of the bridge with a new two-lane with shoulders pre-cast concrete bridge. The structural design of the bridge will be done entirely using TxDOT standards. The bridge will be designed to clear the 100-year flood with max 12" overtopping. The approach roadway will be designed to appropriate geometrics, but will not be designed to improve the existing hydraulic characteristics of the roadway. For this scope of services, Atkins assumes that the new creek crossing will be slightly upstream of the existing location and that proposed ROW will be obtained from the west side of the project, maintaining the existing east ROW line. It is also intended that this portion of Weiss Lane will be closed for construction.

Professional services will be provided by Atkins to produce preliminary plan documents and final plans, specifications, and estimates (PS&E) for the new structure and connecting roadways. These services generally will include hydrologic and hydraulic analysis and design; preparing construction documents and cost estimates; traffic control detour signing plans; assistance with identification of existing utilities in conflict; revising the environmental assessment; and assistance with bidding phase services.

Services to be provided by Travis County will include topographic surveying, preparation of easement and ROW documents, geotechnical engineering (drilling and testing of geotechnical borings, pavement design, bridge foundation shaft length, slope stability, sieve analysis of creek bottom material in two locations for scour analysis), and environmental permitting if necessary.

### **II. Scope of Services**

Services will be provided by Atkins as five specific work products and/or support services, each with a separate fee and each requiring a separate "Notice to Proceed" from Travis County (the County). The scope of work for each Work Product is described in more detail below. Each Work Product will be submitted to the County for review and comment. The review process will consist of submitting two sets of the plans (11x17), estimates of probable construction costs, and specifications when required. Each submittal will include a cover letter stating who from the design team performed a Quality Assurance/Quality Control Check. Upon addressing the County's comments, Atkins will submit two final check sets if required for the County to review and provide written comments and/or approval.

A. Work Product 1 – 30% Design: The 30% design phase will include a traffic control concept, coordination with the County’s topographic survey and geotechnical investigation, a preliminary revised environmental assessment, and 30% design documents and estimate. The scope of services to be included in Work Product 1 is as follows:

1. Attend one kickoff meeting with the County and design team.
2. Perform one site visit to perform field reconnaissance for design issues, existing utilities, and to verify survey data.
3. Coordinate with County Topographic Survey – Assist in developing scope and limits of additional topographic and boundary survey needed due to the increased project length and width.
4. Coordinate with County Geotechnical Investigation – Assist in scope and location of geotechnical borings needed for proposed structure if required due to the location of the new bridge shifting to the west of the existing bridge.
5. Revise the environmental assessment prepared previously.
6. Identify and contact existing utilities located in the project area to provide an updated project layout and cross sections. This will be necessary due to the increased project length, shifting of the proposed center line to the west and a greater area of impact than was originally communicated to the utility companies.
7. Include the temporary traffic control plan concept for closing the road during construction that was developed during the initial design.
8. Perform hydrologic and hydraulic analyses of the existing and proposed drainage crossing with new topographic survey data to be provided by the County. Refine proposed drainage structure opening design based on model.
9. Attend one (1) meeting with the County to present and review the results of the hydraulic analysis.
10. Based on the conclusion from the meeting described in item 8, develop 30% plans to include the following:
  - a) Cover sheet indicating project name and number; site location; project limits; names and signature blocks; symbology legend; and proposed index of drawings to be included in the plan set.
  - b) Typical sections showing proposed and existing conditions.

- c) Plan and profile sheets showing existing conditions and proposed type and location of structure;
- d) Cross-sections for roadways showing existing ground conditions and proposed conditions based upon preliminary alignments and typical sections;
- e) Identification of limits of construction and properties that could be affected by the proposed construction;
- f) Identification of existing utilities that could be affected by the proposed increased construction limits;

11. Develop Engineer's estimate of construction cost for 30% design. Unit prices to be based on current TxDOT average low bid unit prices or unit prices provided by the County from recent bids on similar projects.

12. Perform QA/QC review per Travis County requirements.

13. Provide monthly progress reports and updated project schedules.

B. Work Product 2 – 60% Design: The 60% design phase will include ongoing utility coordination and preparation of 60% design documents. The scope of services to be included in Work Product 2 is as follows:

1. Provide utility coordination of existing utilities affected by the project. Coordination will include coordination of project schedule, providing utility companies with proposed bridge project design information, and performing cursory reviews of utility relocation design information provided by affected utility companies to prevent conflicting improvements. Performance of actual design, bidding, and construction phase services of utility relocations will be considered Additional Services.

2. Finalize hydraulic design of selected drainage structure.

3. Develop 60% plans to include the following:

- a) Updates to drawings included in the 30% plan submittal.
- b) Bridge layout sheet and details.
- c) Temporary traffic control plan and details.
- d) Miscellaneous roadway and drainage details.
- e) Temporary erosion and sedimentation control plan.

- f) Drainage Area Map and drainage calculations.
4. Develop Engineer's estimate of construction cost for 60% design. Unit prices to be based on current TxDOT average low bid unit prices or unit prices provided by the County from recent bids on similar projects.
5. Perform QA/QC review per Travis County requirements.
6. Complete the revised environmental assessment and provide a summary letter of the findings.
7. Provide monthly progress reports and updated project schedules.

C. Work Product 3 – 90% Design: The 90% design phase will include ongoing utility coordination and preparation of 90% design documents. The scope of services to be included in Work Product 3 is as follows:

1. Provide utility coordination of existing utilities affected by the project. Coordination will include coordination of project schedule, providing utility companies with proposed bridge project design information, and performing cursory reviews of utility relocation design information provided by affected utility companies to prevent conflicting improvements. Performance of actual design, bidding, and construction phase services of utility relocations will be considered Additional Services.
2. Finalize hydraulic design of selected drainage structure.
3. Develop 90% plans to include the following:
  - a) Updates to drawings included in the 60% plan submittal.
  - b) Bridge layout sheet and details.
  - c) Temporary traffic control plan and details.
  - d) Miscellaneous roadway and drainage details.
  - e) Temporary erosion and sedimentation control plan.
  - f) Drainage Area Map and drainage calculations.
4. Develop Engineer's estimate of construction cost for 90% design. Unit prices to be based on current TxDOT average low bid unit prices or unit prices provided by the County from recent bids on similar projects.
5. Perform QA/QC review per Travis County requirements.

6. Provide monthly progress reports and updated project schedules.

D. Work Product 4 – 100% Design: The 100% design phase will include utility coordination and 100% contract documents. The scope of services to be included in Work Product 4 is as follows:

1. Finalize coordination of existing utilities affected by the project.
2. Develop 100% plans incorporating previous review comments, utility coordination information, proposed easements, and final permitting information.
3. Provide Special Specifications and Special Provisions. Prepare bid items and quantities for the Bid Form.
4. Develop Engineer's estimate of construction cost for 100% design. Unit prices to be based on current TxDOT average low bid unit prices or unit prices provided by the County from recent bids on similar projects.
5. Perform QA/QC review per Travis County requirements.
6. Provide progress report and updated project schedule.

E. Work Product 5 – Bidding Phase: Provide bidding support services including assistance with responding to bidder questions, preparing addenda, tabulating and evaluating bids, and providing recommendation for award.

### **III. Deliverables:**

- A. For each Work Product, two hardcopies of plans (11x17 size sheets), one electronic PDF copy of plans, Engineer's Opinion of Construction Costs, and updated project schedule.
- B. For Work Product 4, one electronic copy of special specifications, special provisions, and bid form.

### **IV. Time of Completion**

The estimated time of completion for Work Products 1 through 4 is 8 months from the date of notice to proceed. The estimated time of completion includes two weeks of review time by the County for each of the Work Products 1 through 4. Atkins will provide the County with a detailed schedule by task at the project kick-off meeting. The project schedule will be updated on a monthly basis and provided to the County (MS Project format). The estimated time of completion for each Work Product, excluding County review time, is shown below:

<b>Work Product</b>	<b>Schedule</b>
Work Product 1	60 calendar days
Work Product 2	60 calendar days
Work Product 3	30 calendar days
Work Product 4	30 calendar days

**V. Services to be Provided by Travis County**

In conjunction with the services to be provided by Atkins, the County shall provide the following:

- A. A Project Manager to serve as the primary point of contact for Atkins.
- B. Topographic surveying, right-of-way boundary survey, and easement document preparation.
- C. Geotechnical site investigation including borings and lab work as required for bridge foundation and pavement design.
- D. Environmental Document preparation and permitting if necessary.
- E. Documents available to the County and applicable as background information in performance of the Contract, when requested by Atkins.
- F. Timely reviews of documents, reports, drawings, etc.
- G. Conducting, coordination and notification distribution of public meetings and public hearings if necessary.

**VI. Additional Services**

The following services are not included in the above Scope of Services but can be provided by Atkins if necessary upon approval and written “Notice to Proceed” from the County.

- A. Conduct agency coordination, environmental document preparation or permitting.
- B. Preparation of ROW acquisition products.
- C. Preparation of temporary easement exhibits.
- D. Preparation and attendance of public or neighborhood meetings.
- E. Project meetings requested by the Owner other than those included in Section II, Scope of Services.

- F. Preparation and processing of FEMA Letter of Map Change applications.
- G. Preparation of a Drainage Report.
- H. Preparation and processing of City of Austin Site Development Permit application or submittal.
- I. Design, Bidding, or Construction Phase Services for relocation of existing utilities.
- J. Structural designs other than TxDOT standards.

**VII. Compensation**

Atkins will provide the Basic Services Work Products described above for the following fixed fee amounts to be invoiced monthly:

<b>Work Product</b>	<b>Basic Services Fixed Fee</b>
1 – 30% Design Phase	\$32,858.70
Less Remaining	\$0.00
1 – Supplemental Amount	\$32,858.70
2 – 60% Design Phase	\$43,404.82
Less Remaining	\$10,697.24
2 – Supplemental Amount	\$32,707.58
3 – 90% Design Phase	\$21,444.91
Less Remaining	\$18,389.17
3 – Supplemental Amount	\$3,055.74
4 – 100% Design Phase	\$8,459.95
Less Remaining	\$8,736.01
4 – Supplemental Amount	-\$276.06
5 – Bidding Phase	\$3,343.76
Less Remaining	\$786.00
5 – Supplemental Amount	\$2,557.76
Total Supplemental Fixed Fee for	\$70,903.72
Basic Services	

Atkins will be reimbursed for non-labor expenses incurred in the performance of the Basic Services for \$1,335.32 less the remaining of \$772.54 for a total supplemental amount not to exceed \$562.78.

The Total Supplemental Agreement Fixed Fee is \$71,466.50.

# Funds Reservation 300000880

General Data			
Document type	FC	Document type	030
Company code	1000	Document date	09/27/2013
FM area	1000	Posting date	09/27/2013
Controlling area	1000	Currency	USD/ 1.00000
Statistics			
Entered by	LOPEZI	Created on	09/27/2013
Last changed by	ROMEROJ1	Last changed	09/08/2014
More Data			
Text	Weiss Ln. Bridge		
Reference			
Overall Amount	91,106.89 USD		

Document item 001			
Text	Weiss Ln. Bridg		
Commitment item	522040	Funds center	1490190000
Fund	4036	G/L account	522040
Cost center	1490190000	Due on	
Vendor		Customer	
Amount	35,743.89 USD		

Document item 002			
Text	WEISS LN BRIDGE-DESIGN		
Commitment item	522040	Funds center	1490190000
Fund	4086	G/L account	522040
Cost center	1490190000	Due on	
Vendor		Customer	
Amount	55,363.00 USD		

**MODIFICATION OF CONTRACT NUMBER: 4400001642 Weiss Lane Bridge #229 Improvements Project**

ISSUED BY: PURCHASING OFFICE 700 Lavaca, Suite 800 AUSTIN, TX 78701	PURCHASING AGENT ASST: Jesus Angel Gómez TEL. NO: (512) 854-9700 FAX NO: (512) 854-9185	DATE PREPARED: October 30, 2014
ISSUED TO: Atkins North America Inc. Attn: Rob Bailey, P.E. 6504 Bridge Point Parkway, Suite 200 Austin, Texas 78730	MODIFICATION NO.:  2	EXECUTED DATE OF ORIGINAL CONTRACT:  December 17, 2013

ORIGINAL CONTRACT TERM DATES: January 13, 2014 – Through Completion

CURRENT CONTRACT TERM DATES: January 13, 2014 – Through Completion

**FOR TRAVIS COUNTY INTERNAL USE ONLY:**

Original Contract Amount: \$99,846.80

Current Modified Amount \$171,313.30

**DESCRIPTION OF CHANGES:** The above referenced contract is modified to reflect the changes as set forth below:

- A. Reference Appendix A, "Scope of Services," which is hereby deleted in its entirety and replaced with the attached "Appendix A - Revised Scope of Services," attached as pages 2-6 of this modification. As a result, Exhibit 1, "Compensation for Professional Services and Schedule of Payments," is modified as follows:
1. Reference Exhibit 1, Section 1, "Compensation for Basic Services," Paragraph 1.1: The fixed fee for Basic Services is changed from \$98,991.48 to \$169,895.20, an increase of \$70,903.72. As a result Exhibit 1, Section 1.1.1, phases (i) – (v) are modified as follows:
    - a. Work Product 1 – (30%) Design Phase is changed from \$36,816.93 to \$69,675.63, an increase of \$32,858.70.
    - b. Work Product 2 – (60%) Design Phase is changed from \$34,263.25 to \$66,970.83, an increase of \$32,707.58.
    - c. Work Product 3 – (90%) Design Phase is changed from \$18,389.17 to \$21,444.91, an increase of \$3,055.74.
    - d. Work Product 4 – (100%) Design Phase is changed from \$8,736.01 to \$8,459.95, a decrease of \$276.06.
    - e. Work Product 5 – Bidding Phase is changed from \$786.00 to \$3,343.76, an increase of \$2,557.76.
  2. Reference Exhibit 1, Section 4, "Reimbursable Expenses," Not-to-Exceed Reimbursable Total amount is changed from \$855.32 to \$1,418.10, an increase of \$562.78.
  3. Reference Exhibit 1, Section 5, "Total Agreement Sum," Compensation for Basic Services fixed fee, is changed from \$98,991.48 to \$169,895.20, an increase of \$70,903.72, and NTE Reimbursable Expenses is changed from \$855.32 to \$1,418.10, an increase of \$562.78. The "Total Agreement Sum" is changed from \$99,846.80 to \$171,313.30, an increase of \$71,466.50.

Except as provided herein, all terms, conditions, and provisions of the document referenced above as heretofore modified, remain unchanged and in full force and effect.

**Note to Vendor:**

[XXX] Complete and execute (sign) your portion of the signature block section below for all copies and return all signed copies to Travis County.

[ ] DO NOT execute and return to Travis County. Retain for your records.

LEGAL BUSINESS NAME: <u>Atkins North America, Inc.</u>	<input type="checkbox"/> DBA
BY: <u>[Signature]</u> SIGNATURE	<input checked="" type="checkbox"/> CORPORATION
BY: <u>Robert Bailey</u> PRINT NAME	<input type="checkbox"/> OTHER
TITLE: <u>Historic Design Manager</u> ITS DULY AUTHORIZED AGENT	DATE: <u>11-4-14</u>
TRAVIS COUNTY, TEXAS	DATE: <u>11/4/14</u>
BY: <u>[Signature]</u> CYD V. GRIMES, C.P.M., TRAVIS COUNTY PURCHASING AGENT	
TRAVIS COUNTY, TEXAS	DATE:
BY: <u>SAMUEL T. BISCOE, TRAVIS COUNTY JUDGE</u>	

**APPENDIX A**  
**REVISED SCOPE OF SERVICES**

## **I. Project Summary**

Weiss Lane Bridge is currently a functionally obsolete one-lane bridge over the South Fork of Wilbarger Creek. Previous design services performed by Atkins North America, Inc. ("Consultant" or "Atkins") under this Professional Services Agreement accommodated the replacement of the existing bridge with a new 2 lane bridge (no shoulders) on the existing alignment and within the existing ROW. This design was progressed to 60% completion. It has been determined that the proposed bridge should be wide enough to accommodate shoulders as well as two lanes of traffic. This will necessitate the re-design of the Project, shifting the proposed centerline alignment to the west and will require the acquisition of ROW on the west side of the Project. In addition, Travis County has again determined that Consultant is the firm most highly qualified to perform the additional design services in accordance with the revised Project scope set forth in this Appendix A.

The re-design of this Project will consist of the design for the replacement of the bridge with a new two-lane, pre-cast concrete bridge with shoulders. The structural design of the bridge will be carried out entirely using TxDOT standards. The bridge will be designed to clear the 100-year flood with max 12" overtopping. The approach roadway will be designed to appropriate geometrics, but will not be designed to improve the existing hydraulic characteristics of the roadway. For this Scope of Services, Atkins assumes that the new creek crossing will be slightly upstream of the existing location and that proposed ROW will be obtained from the west side of the Project, maintaining the existing east ROW line. It is also intended that this portion of Weiss Lane will be closed for construction.

Professional services will be provided by Atkins to produce preliminary plan documents and final plans, specifications, and estimates (PS&E) for the new structure and connecting roadways. These services generally will include hydrologic and hydraulic analysis and design; preparing construction documents and cost estimates; traffic control detour signing plans; assistance with identification of existing utilities in conflict; revising the environmental assessment; and assistance with bidding phase services.

Services to be provided by Travis County will include topographic surveying, preparation of easement and ROW documents, geotechnical engineering (drilling and testing of geotechnical borings, pavement design, bridge foundation shaft length, slope stability, sieve analysis of creek bottom material in two locations for scour analysis), and environmental permitting if necessary.

## **II. Scope of Services**

Services will be provided by Atkins as five specific work products and associated support services, each with a separate fee and each requiring a separate "Notice to Proceed" from Travis County. The scope of work for each Work Product is described in more detail below. Each Work Product will be submitted to the County for review and comment. The review process will consist of submitting two sets of the plans (11x17), estimates of probable construction costs, and specifications when required. Each submittal will include a cover letter stating who from the design team performed a Quality Assurance/Quality Control Check. Upon addressing the County's comments, Atkins will submit two final check sets if required for the County to review and provide written comments and/or approval.

A. Work Product 1 – 30% Design: The 30% design phase will include a traffic control concept, coordination with the County's topographic survey and geotechnical investigation, a preliminary revised environmental assessment, and 30% design documents and estimate. The scope of services to be included in Work Product 1 is as follows:

1. Attend one kickoff meeting with the County and design team.
2. Perform one site visit to perform field reconnaissance for design issues and existing utilities, and to verify survey data.
3. Coordinate with County Topographic Survey – Assist in developing scope and limits of additional topographic and boundary survey needed due to the increased Project length and width.

4. Coordinate with County Geotechnical Investigation – Assist in scope and location of geotechnical borings needed for proposed structure if required due to the location of the new bridge shifting to the west of the existing bridge.
  5. Revise the environmental assessment prepared previously.
  6. Identify and contact existing utilities located in the Project area to provide an updated Project layout and cross sections. This will be necessary due to the increased Project length, shifting of the proposed center line to the west, and a greater area of impact than was originally communicated to the utility companies.
  7. Include the temporary traffic control plan concept for closing the road during construction that was developed during the initial design.
  8. Perform hydrologic and hydraulic analyses of the existing and proposed drainage crossing with new topographic survey data to be provided by the County. Refine proposed drainage structure opening design based on model.
  9. Attend one (1) meeting with the County to present and review the results of the hydraulic analysis.
  10. Based on the conclusion from the meeting described in item 8, develop 30% plans to include the following:
    - a) Cover sheet indicating Project name and number; site location; Project limits; names and signature blocks; symbology legend; and proposed index of drawings to be included in the plan set.
    - b) Typical sections showing proposed and existing conditions.
    - c) Plan and profile sheets showing existing conditions and proposed type and location of structure;
    - d) Cross-sections for roadways showing existing ground conditions and proposed conditions based upon preliminary alignments and typical sections;
    - e) Identification of limits of construction and properties that could be affected by the proposed construction;
    - f) Identification of existing utilities that could be affected by the proposed increased construction limits;
  11. Develop engineer's estimate of construction cost for 30% design. Unit prices to be based on current TxDOT average low bid unit prices or unit prices provided by the County from recent bids on similar projects.
  12. Perform QA/QC review per Travis County requirements.
  13. Provide monthly progress reports and updated Project schedules.
- B. Work Product 2 – 60% Design:** The 60% design phase will include ongoing utility coordination and preparation of 60% design documents. The scope of services to be included in Work Product 2 is as follows:
1. Provide utility coordination of existing utilities affected by the Project. Coordination will include coordination of Project schedule, providing utility companies with proposed bridge Project design information, and performing cursory reviews of utility relocation design information provided by affected utility companies to prevent conflicting improvements. Performance of actual design, bidding, and construction phase services of utility relocations, if requested by the County, will be considered Additional Services.

2. Finalize hydraulic design of selected drainage structure.
3. Develop 60% plans to include the following:
  - a) Updates to drawings included in the 30% plan submittal.
  - b) Bridge layout sheet and details.
  - c) Temporary traffic control plan and details.
  - d) Miscellaneous roadway and drainage details.
  - e) Temporary erosion and sedimentation control plan.
  - f) Drainage Area Map and drainage calculations.
4. Develop engineer's estimate of construction cost for 60% design. Unit prices to be based on current TxDOT average low bid unit prices or unit prices provided by the County from recent bids on similar projects.
5. Perform QA/QC review per Travis County requirements.
6. Complete the revised environmental assessment and provide a summary letter of the findings.
7. Provide monthly progress reports and updated Project schedules.

**C. Work Product 3 – 90% Design:** The 90% design phase will include ongoing utility coordination and preparation of 90% design documents. The scope of services to be included in Work Product 3 is as follows:

1. Provide utility coordination of existing utilities affected by the Project. Coordination will include coordination of Project schedule, providing utility companies with proposed bridge Project design information, and performing cursory reviews of utility relocation design information provided by affected utility companies to prevent conflicting improvements. Performance of actual design, bidding, and construction phase services of utility relocations will be considered Additional Services.
2. Finalize hydraulic design of selected drainage structure.
3. Develop 90% plans to include the following:
  - a) Updates to drawings included in the 60% plan submittal.
  - b) Bridge layout sheet and details.
  - c) Temporary traffic control plan and details.
  - d) Miscellaneous roadway and drainage details.
  - e) Temporary erosion and sedimentation control plan.
  - f) Drainage Area Map and drainage calculations.
4. Develop engineer's estimate of construction cost for 90% design. Unit prices to be based on current TxDOT average low bid unit prices or unit prices provided by the County from recent bids on similar projects.

5. Perform QA/QC review per Travis County requirements.
6. Provide monthly progress reports and updated Project schedules.

D. Work Product 4 – 100% Design: The 100% design phase will include utility coordination and 100% contract documents. The scope of services to be included in Work Product 4 is as follows:

1. Finalize coordination of existing utilities affected by the Project.
2. Develop 100% plans incorporating previous review comments, utility coordination information, proposed easements, and final permitting information.
3. Provide Special Specifications and Special Provisions. Prepare bid items and quantities for the Bid Form.
4. Develop engineer's estimate of construction cost for 100% design. Unit prices to be based on current TxDOT average low bid unit prices or unit prices provided by the County from recent bids on similar projects.
5. Perform QA/QC review per Travis County requirements.
6. Provide progress report and updated Project schedule.

E. Work Product 5 – Bidding Phase: Provide bidding support services including assistance with responding to bidder questions, preparing addenda, tabulating and evaluating bids, and providing recommendation for award.

**III. Deliverables:**

- A. For each Work Product, two hardcopies of plans (11x17 size sheets), one electronic PDF copy of plans, engineer's Opinion of Construction Costs, and updated Project schedule.
- B. For Work Product 4, one electronic copy of special specifications, special provisions, and bid form.

**IV. Time of Completion**

The estimated time of completion for Work Products 1 through 4 is eight (8) months from the date of issuance of the first Notice to Proceed. This estimated time of completion includes two weeks of review time by the County for each of the Work Products 1 through 4. Atkins will provide the County with a detailed schedule by task at the Project kick-off meeting. The Project schedule will be updated on a monthly basis and provided to the County (MS Project format). The estimated time of completion for each Work Product, excluding County review time, is shown below:

Work Product	Schedule
Work Product 1	60 calendar days
Work Product 2	60 calendar days
Work Product 3	30 calendar days
Work Product 4	30 calendar days

## V. Services to be Provided by Travis County

In conjunction with the services to be provided by Atkins, the County shall provide the following:

- A. A Project Manager to serve as the primary point of contact for Atkins.
- B. Topographic surveying, right-of-way boundary survey, and easement document preparation.
- C. Geotechnical site investigation, including borings and lab work as required for bridge foundation and pavement design.
- D. Environmental document preparation and permitting if necessary.
- E. Documents available to the County and applicable as background information in performance of this Professional Services Agreement, when requested by Atkins.
- F. Timely reviews of documents, reports, drawings, etc.
- G. Conducting, coordinating and distributing notice of public meetings and public hearings if necessary.

## VI. Additional Services

The following services are not included in the above Scope of Services but may be provided by Atkins if requested by County upon approval and written "Notice to Proceed" from the County.

- A. Conduct agency coordination, environmental document preparation; permitting tasks not included in the above Scope of Services sections.
- B. Preparation of ROW acquisition products.
- C. Preparation of temporary easement exhibits.
- D. Preparation and attendance of public or neighborhood meetings.
- E. Project meetings requested by the Owner other than those included in Section II, Scope of Services.
- F. Preparation and processing of FEMA Letter of Map Change applications.
- G. Preparation of a Drainage Report.
- H. Preparation and processing of City of Austin Site Development Permit application or submittal.
- I. Design, Bidding, or Construction Phase Services for relocation of existing utilities.
- J. Structural designs other than TxDOT standards.

**END OF MODIFICATION**