



CENTRAL TEXAS REGIONAL  
**MOBILITY AUTHORITY**

February 24, 2021  
**AGENDA ITEM #10**

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Discuss and consider approving Work Authorization No. 21\_01 with Atkins North America Inc. for general engineering consultant services to provide project management and oversight of the Barton Skyway Ramp Relief Project

Strategic Plan Relevance:	Regional Mobility
Department:	Engineering
Contact:	Mike Sexton, P.E., Acting Director of Engineering
Associated Costs:	\$773,732
Funding Source:	MoPac General Fund
Action Requested:	Consider and act on draft resolution

**Background** – In late 2018, the Mobility Authority began studying the southbound Loop 1 (MoPac) corridor as part of an effort to develop a range of non-tolled transportation solutions aimed at improving traffic operations. Current conditions cause backups to the Winsted Lane and Enfield Road entrance ramps and beyond. Due to weaving associated with the current entrance ramp configuration, only 60 percent of existing capacity is being utilized during peak hour traffic. Drivers are experiencing unpredictable travel times and route delays.

A variety of configurations and alternatives were studied prior to development of the most feasible option, later termed the Barton Skyway Ramp Relief Project. The proposed project aims to alleviate the bottleneck from traffic merging onto southbound MoPac at the Barton Skyway and Bee Caves Road entrance ramps. This new configuration, described below, will improve travel times, increase vehicle throughput during peak hours, and increase safety.

**Project Description** – The Mobility Authority is proposing to add non-tolled improvements to southbound MoPac between Barton Skyway and Loop 360 (Capital of Texas Highway). These improvements consist of adding an auxiliary lane from Barton

Skyway to Loop 360, an acceleration lane for the southbound Barton Skyway entrance ramp, and pavement widening which will allow for three dedicated through-traffic lanes at Loop 360, and a dedicated left lane exit ramp for southbound Loop 360.

**Previous Board Action** - In May of 2020, the Board executed an advance Funding Agreement (AFA) with the Texas Department of Transportation (TxDOT). This agreement establishes the respective project sources and uses of funds for the Mobility Authority and TxDOT for the procurement, design, and construction of the Project. This project will be funded 100% by the Mobility Authority.

**Action requested/Staff Recommendation** - Staff recommends approval of a work authorization with Atkins to perform general engineering consulting services to provide environmental service and design oversight services of the Barton Skyway Ramp Relief Project in an amount not to exceed \$773,732.

**Financing** - MoPac General Fund. The \$10 million total project cost was approved in the Fiscal Year 2021 Operating Budget under Capital Improvement Projects.

Backup Provided: Draft Resolution  
Draft Work Authorization No. 21\_01

**GENERAL MEETING OF THE BOARD OF DIRECTORS  
OF THE  
CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**

**RESOLUTION NO. 21-0XX**

**APPROVING WORK AUTHORIZATION NO. 21\_01 WITH ATKINS NORTH AMERICA,  
INC. FOR PROJECT MANAGEMENT AND CONSTRUCTION OVERSIGHT ON THE  
BARTON SKYWAY RAMP RELIEF PROJECT**

WHEREAS, by Resolution No. 17-067, dated December 13, 2017, the Board of Directors approved a Master Agreement with Atkins North America, Inc. (Atkins) for general engineering consultant services; and

WHEREAS, in order to relieve congestion and improve mobility on the Mopac corridor, the Mobility Authority is developing the Barton Skyway Ramp Relief Project which consists of certain non-tolled improvements to southbound MoPac between Barton Skyway and Loop 360 (Capital of Texas Highway) including a new auxiliary lane from Barton Skyway to Loop 360, an acceleration lane for the southbound Barton Skyway entrance ramp, pavement widening that will provide three dedicated through-traffic lanes at Loop 360, and a dedicated left lane exit ramp for southbound Loop 360; and

WHEREAS, the Mobility Authority requires general engineering consultant services including project management and construction oversight for the Barton Skyway Ramp Relief Project; and

WHEREAS, the Interim Executive Director and Atkins North America, Inc. (Atkins) have negotiated proposed Work Authorization No. 21\_01 for general engineering consultant services including project management and construction oversight for the Barton Skyway Ramp Relief Project in an amount not to exceed \$773,732; and

WHEREAS, the Interim Executive Director recommends that the Board approve Work Authorization No. 21\_01 in the form or substantially the form attached hereto as Exhibit A.

NOW THEREFORE, BE IT RESOLVED that the Board approves Work Authorization No. 21\_01 in an amount not to exceed \$773,732, and hereby authorizes the Interim Executive Director or his designee to finalize and execute the work authorization on behalf of the Mobility Authority in the form or substantially the same form as Exhibit A.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 24<sup>th</sup> day of February 2021.

Submitted and reviewed by:

Approved:

\_\_\_\_\_  
Geoffrey Petrov, General Counsel

\_\_\_\_\_  
Robert W. Jenkins, Jr.  
Chairman, Board of Directors

**Exhibit A**

**EXHIBIT A**  
**WORK AUTHORIZATION**

**Work Authorization No.21\_01**

This Work Authorization is made as of this \_\_\_ day of \_\_\_\_\_, 2021, under the terms and conditions established in the AGREEMENT FOR GENERAL CONSULTING ENGINEERING SERVICES, dated as of December 19<sup>th</sup>, 2017 (the Agreement), between the **Central Texas Regional Mobility Authority** (Authority) and **Atkins North America, Inc.** (GEC). This Work Authorization is made for the following purpose, consistent with the services defined in the Agreement:

*Barton Skyway Ramp Relief  
GEC Oversight Services*

**Section A. - Scope of Services**

A.1. GEC shall perform the following Services:

Please reference Attachment A – Services to be Provided by the GEC

A.2. The following Services are not included in this Work Authorization but shall be provided as Additional Services if authorized or confirmed in writing by the Authority.

Please reference Attachment B – Fee Schedule.

A.3. In conjunction with the performance of the foregoing Services, GEC shall provide the following submittals/deliverables (Documents) to the Authority:

Please reference Attachment A – Services to be Provided by the GEC

**Section B. - Schedule**

GEC shall perform the Services and deliver the related Documents (if any) according to the following schedule:

Services defined herein are expected to be substantially complete by completion of final design and environmental clearance. This Work Authorization will not expire until all tasks associated with the Scope of Services are complete as determined by the Authority.

**Section C. - Compensation**

C.1. In return for the performance of the foregoing obligations, the Authority shall pay to the GEC the amount not to exceed \$773,732 based on Attachment B -Fee Estimate. Included in the above fee is compensation for Direct Expenses under this contract which are incurred as part of normal business operations (i.e., Equipment rentals, internal document reproduction, internal plotting, travel and parking associated with local meetings, etc.) will be reimbursed on a lump-sum basis. Profit

will be 10% for all services. Compensation shall be in accordance with the Agreement.

C.2. Compensation for Additional Services (if any) shall be paid by the Authority to the GEC according to the terms of a future Work Authorization.

**Section D. - Authority’s Responsibilities**

The Authority shall perform and/or provide the following in a timely manner so as not to delay the Services of the GEC. Unless otherwise provided in this Work Authorization, the Authority shall bear all costs incident to compliance with the following:

Not applicable

**Section E. - Other Provisions**

The parties agree to the following provisions with respect to this specific Work Authorization:

Not applicable.

Except to the extent expressly modified herein, all terms and conditions of the Agreement shall continue in full force and effect.

Authority: Central Texas Regional Mobility Authority

GEC: Atkins North America, Inc.

By: William Chapman

By: \_\_\_\_\_

Signature: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: Interim Executive Director & Chief Financial Officer

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

# CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY

## WORK AUTHORIZATION SCOPE

### ATTACHMENT A SERVICES TO BE PROVIDED BY GEC

#### BARTON SKYWAY RAMP RELIEF

#### 1 PROJECT OVERSIGHT – PRE-CONSTRUCTION

##### 1.1 Project Management

- 1.1.1 Provide staff to manage the daily activities of the project.
  - (a) Serve as the primary contact between the Mobility Authority, TxDOT, design consultants, third party consultants, utility companies, public agencies, and the general public.
- 1.1.2 Document Control
  - (a) Implement document control plan
  - (b) Maintain project files for the length of the project
  - (c) Transfer project files to the Mobility Authority upon completion of the work or as directed by the Mobility Authority
- 1.1.3 Sub-Consultant Coordination, Work Authorization Management and Invoicing.
  - (a) Manage sub-consultants which includes coordination, Work Authorization Management and Invoicing.
- 1.1.4 Project Reporting
  - (a) Provide updates to the Mobility Authority on key tasks accomplished during the preceding month, meetings and key activities for the upcoming month, and identify outstanding issues requiring resolution.
  - (b) Provide Project Administrative support staff to track, monitor, evaluate and report on contracts and budgets.
  - (c) Provide Project Administrative support staff to track, monitor, and prepare reports on DBE/HUB utilization by Prime and Segment Designers, and DBE/HUB programs.
  - (d) Prepare a Quarterly Report with an Executive Summary that provides a comprehensive summary of the monthly reports and the overall program progress.
- 1.1.5 Project Scheduling
  - (a) Maintain a Master Project Schedule (Primavera format) that will show critical milestones for the performance and coordination of services.
  - (b) Monitor, evaluate, validate, and periodically update all schedules produced by others (Segment Designers, Utility Companies, etc.) that are a subset of the Master Project Schedule.
  - (c) Provide updates of schedules at the appropriate stages of the project and shall provide an assessment of schedules provided by applicable third parties for integration into the Master Project Schedule.

### 1.1.6 Project Development Support

- (a) Loan and/or Grant Applications: Assist the Authority in the development of loan and/or grant applications (i.e. TIFIA Application).
- (b) Engineering and Technical Support: Provide various engineering and technical tasks as requested by the Authority including but not limited to engineering assistance, general technology assistance, general environmental coordination reports, research, and presentations.
- (c) Traffic Modeling: Conduct peer review of the CORSIM and/or VISSIM Traffic Models and provide summary of suggestions.
- (d) TxDOT Coordination: Provide the appropriate staff as part of the coordination efforts between the Authority and TxDOT, as directed by the Authority.
- (e) Agency Coordination: Provide the appropriate staff as part of the coordination efforts between the Authority and Agencies, as directed by the Authority.
- (f) Project Agreements: Assist in the development and review of various agreements necessary such as the Project Development Agreement (PDA), Advance Funding Agreement (AFA), Financial Assistance Agreement (FAA), etc.; generation of agreement exhibits; review of agreement drafts; and TxDOT coordination support, as directed by the Authority.
- (g) DBE Outreach support as requested by the Authority.

### 1.1.7 Professional Services Procurement

- (a) Complete various Contracting phase efforts associated with CE&I procurement, including:
  - i. Prepare documents for debriefings to be used by the Mobility Authority for proposers to the CE&I procurement.
- (b) Complete various contracting efforts associated with the procurement of PS&E design consultant including:
  - i. Prepare the Request for Qualification
  - ii. CivCast Support
  - iii. Prepare documents for debriefings to be used by the Mobility Authority for proposers to the PS&E procurement

## 2 PRELIMINARY ENGINEERING SERVICES

### 2.1 Roadway Design

The Engineer will perform work generally consisting of the roadway design to update an existing 30% Schematic to a 50% Schematic for proposed roadway improvements

#### 2.1.1 Typical Sections

- (a) Update existing and proposed typical sections.
- (b) Incorporate additional Survey and SUE data into typical sections.

#### 2.1.2 Schematic Development

- (a) Update the 30% Schematic roll plot including plan, profile, typical sections, and design data to approximately 50% Schematic level.
- (b) Incorporate Survey and SUE information into Schematic.



### 2.1.3 QA/QC

- (a) Provide a team of qualified reviewers to review the Schematic.

### 2.1.4 Survey and SUE

#### (a) Topographic/Engineering Design Survey

- i. Inland will install and utilize control points along the project corridor. The values will be relative to NAD 83 Texas State Plane Coordinates, Central Zone 4203 (scaled to surface values). Vertical Datum will be GPS Orthometric heights. This datum and coordinate system will be derived from the TxDOT VRS GPS system and/or OPUS GPS Static observations as appropriate.
- ii. Inland will install and located up to 40 targets (painted on pavement) for the LiDAR sensor control. The targets will have multiple GPS observations performed to derive coordinates and elevations thereof.
- iii. Inland will collect spot elevations and grade breaks within the project limits for areas not being extracted from LiDAR data. The data will include curbs, gutters, edges of pavement, driveways, portions of parking areas, visible utilities, utility markings, drainage features, trees (ornamentals and/or 8" and up dbh) and any improvements within the defined area. Inland will generate a 1 foot contour interval DTM file of the project area. Inland will place a "811" Utility located request for the area and track responses.
- iv. Inland will utilize the data collected along the Project corridor in the Field Survey to produce a digital terrain model (DTM), 2D MicroStation planimetric file, and a 3D MicroStation DTM (tin) file including break-lines and contours of the areas surveyed only. Survey field notes and supporting electronic data will be made available upon request or as stated above. Inland will prepare a horizontal and vertical control layout exhibit which will include the benchmark system callouts.

#### (b) SUE Oversight – Oversight, coordination, support and assistance for utility related activities

- i. Monitor, review and report on Subsurface Utility Engineering performed by others.
- ii. Review utility plans for compliance with TxDOT Utility Accommodation Rules, compatibility with the Project features, betterment inclusion, and constructability.
- iii. Provide oversight review of location, materials and backfilling methods of trenches associated with utility adjustments.
- iv. Participate in meetings as necessary to support effective management of the utility coordination process.
- v. If necessary, provide support in scheduling periodic meetings with utility owners representatives for coordination purposes.
- vi. Support negotiating the details of utility agreements with the utility companies, as requested. Details will include any betterments requested,

indirect costs, plans, estimates, and schedules for the utility companies' activities.

- vii. Review of utility adjustment agreements including plans, estimates, and property interest.
- viii. Monitor and report on utility adjustment status.

(c) SUE

Perform SUE investigations as required by the Authority.

- i. Perform Quality Level A Subsurface Utility Engineering investigation
- ii. Perform Quality Level B Subsurface Utility Engineering investigation
- iii. Perform Quality Level C Subsurface Utility Engineering investigation
- iv. Perform Quality Level D Subsurface Utility Engineering investigation

## 2.2 Drainage Design

The Engineer will perform work generally consisting of updating the 30% drainage schematic to incorporate latest roadway design elements and survey data.

### 2.2.1 Drainage Design Schematic

- (a) The Engineer shall update existing drainage infrastructure on schematic roll plots to reflect any survey and utility conflict assessment information received.
- (b) The Engineer will update proposed drainage systems including ditch, storm sewer, and culvert configurations. Ditch capacities will be evaluated based on typical sections.
- (c) The Engineer will note potential utility conflicts on the schematic roll plot and provide recommended alternatives to mitigate conflicts

Exclusions: An impact mitigation and water quality analysis for detention or water quality BMPs identification or siting is not included as part of this scope. Potential water quality BMPs and detention mitigation will be identified on schematic roll plots.

## 2.3 Traffic Operations

### 2.3.1 Review of Travel Demand Model

- (a) Provide a high-level review for one Base year CAMPO model, one future year (2042) no-build CAMPO model, and one future year (2042) Build CAMPO models.
- (b) Coordination with CDM and Atkins.
- (c) Provide review comments in an email. Assumed one verification to confirm that comments were addressed.

### 2.3.2 Review of Daily Traffic Forecast

- (a) Review daily traffic forecast developed by CDM Smith. The Study area for this task is assumed to be the MoPac mainlines and frontage roads between Enfield Road and Loop 360 South.

- (b) The daily traffic forecast will be reviewed for one Base year, two future year (2022 & 2042) no-build and two future year (2022 & 2042) Build scenario.
- (c) Coordination with CDM and Atkins.
- (d) Provide review comments in an email. Assumed one verification to confirm that comments were addressed.

### 2.3.3 Review of Design Hour Volume

- (a) Review design hour volumes (DHV) developed by CDM Smith. The Study area for this task is assumed to be the MoPac mainlines and frontage roads between Enfield Road and Loop 360 South.
- (b) The DHV will be reviewed for one Base year, two future year (2022 & 2042) no-build and two future year (2022 & 2042) Build scenarios.
- (c) Coordination with CDM and Atkins.
- (d) Provide review comments in an email. Assumed one verification to confirm that comments were addressed.
- (e) Prepare DHV, posted speed and, vehicle composition data in a format that is needed for noise assessment. The data will be prepared for one Base year, two future year (2022 & 2042) no-build and two future year (2022 & 2042) Build scenarios. All the data will be provided by CDM – the Consultant will only be reformatting this data.

### 2.3.4 Review Forecast Methodology Report & Facilitate TP&P Review

- (a) Review Forecast Methodology report/form (developed by CDM) prior to submitting to the TxDOT District for review.
- (b) Coordination with CDM, Atkins, and TxDOT.
- (c) Provide review comments in an email. Assumed one verification to confirm that comments were addressed.
- (d) Includes pre-meeting with CDM and Atkins and; meeting attendance with TxDOT.
- (e) Develop line diagrams in TPP requested format showing daily volumes. The line diagrams will show for one Base year, two future year (2022 & 2042) no-build and two future year (2022 & 2042) Build scenarios. All the data will be provided by CDM – the Consultant will only be reformatting this data.

### 2.3.5 Meetings and Project Management

- (a) The ENGINEER shall attend meetings in support of the project. Assumes one-hour weekly meeting for three months, i.e., total twelve (12) meetings.
- (b) The ENGINEER shall prepare monthly progress reports and a cost to complete estimate for this work as part of the Mobility Authority's monthly invoicing process.

## 2.4 Traffic Modeling

### 2.4.1 Project Traffic Forecasts Development

- (a) Data and Assumptions Review

- (b) Code Base Year Model
- (c) Review Demographics and Develop Base Year Trip Tables
- (d) Calibrate Base Corridor Model
- (e) Review/evaluate/refine RTP 2045 Future Models
- (f) Code and Run 2045 No-Build Option
- (g) Code and Run 2045 Build Option
- (h) Develop Traffic Forecast Methodology Memo
- (i) Develop Project Forecasts for use in Noise Analyses
- (j) Facilitate TPP Review of Project Forecasts
- (k) Develop Design-Hour Forecasts for Traffic Analysis
- (l) Update Functional Plan with DHV Forecasts
- (m) Develop Congested Speed Forecasts, Level-of-Service (LOS) Forecasts

2.4.2 Project Management, QC, and Coordination Meetings Attendance

2.4.3 Miscellaneous Analysis & Study Support

### **3 ENVIRONMENTAL SERVICES**

#### **3.1 Project Management**

The Engineer will host a project initiation meeting to discuss prior efforts and confirm that the type of NEPA documentation (e.g. CE) is still appropriate.

The Engineer will participate in status meetings or conference calls with the Austin District and CTRMA every two weeks. Additional meetings may be required with Environmental Division. The Engineer will prepare draft and final meeting agendas, handouts, and minutes. The Engineer will coordinate with CTRMA and TxDOT on content of agency communications in advance. Occasionally, a task manager may attend these meetings to discuss the results of investigations.

#### **3.2 Environmental Document Development**

##### **3.2.1 Categorical Exclusion (CE) Preparation**

- (a) The Engineer will prepare a CE which shall include the technical reports mentioned below.
- (b) The Engineer will prepare exhibits including, but not limited to, the following: vicinity map, floodplain map, existing and proposed typical sections, schematic, noise and air receiver location map, wetlands inventory map, USGS map, site photographs and hazardous sites map, as appropriate. The document shall be limited in size to 8 1/2" x 11" or 11" x 17" for ease of reproduction. Illustrations shall be developed using GIS (ArcView) and/or CADD (Microstation) software.

##### **3.2.2 Noise**

- (a) A Noise Analysis Technical Report was not previously prepared for this project. A NSR will be prepared by the Engineer. Noise contours will be developed for the purposes of land use planning for local government.

- (b) The Engineer will identify Common Noise Environments (CNE) and those receptors which may be sensitive to noise. An impacts analysis for the Build condition will be analyzed using the latest version of the FHWA TNM model (currently TNM 2.5). Mitigation via noise barriers will be performed for those receptors who approach or exceed the FHWA Noise Abatement Criteria (NAC). Noise barriers will be analyzed to determine if they are both feasible and reasonable abatement alternatives. The noise analysis and noise barrier recommendations will be submitted via a Noise Analysis Technical Report.

### 3.2.3 Ecological Resources

- (a) Biological Assessment (BA)/Species Analysis Form (SAF) Tier I&II.
  - i. Technical memoranda for Biological Studies, Water Resources, and a Geologic Assessment were produced previously by Hicks and Zara. Many of these reports were not finalized and some data is no longer valid due to agency limitations on the length between studies and construction. Since then, TxDOT has advised that projects with significant excavation (greater than two feet) in U.S. Fish and Wildlife Services (USFWS) Karst Zones 1, 2, and 3 should undergo a formal consultation and new species information is available.
  - ii. Following receipt of the updated reports and Environmental Schematic, the Engineer will conduct any needed additional field work to prepare the Tier I and II BEF and BA with updated Texas Natural Diversity Database (NDD) and Element of Occurrence (EOR) data. Where Right of Entry is not available, properties will be reviewed as possible from public Right of Way (ROW). The direct, indirect, and cumulative effects analysis and conservation and recovery measures will also be revisited using literature-based approach.
  - iii. Following receipt of comments on the internal draft BEF and BA from CTRMA and TxDOT, the Engineer will participate in a coordination meeting and plan how best to support discussions with USFWS. Following resolution of CTRMA and TxDOT ENV comments, the Engineer will prepare an external draft and support a coordination meeting with CTRMA, TxDOT ENV, USFWS and other stakeholders. Following receipt of external comments, the Engineer will revise the draft BA and produce a final BA. A coordination meeting may be required to resolve external agency comments.

### 3.2.4 Water Resources

- (a) The Engineer will provide services required to develop the Water Resources Technical Report (WRTR) in accordance with guidelines stated in the TXDOT Water Resources Toolkit and the Water Resource Environmental Handbook. This will include new delineations or field verification of data; a revised, tabular impact assessment; and review of relevant regulations and permitting mechanisms. This process is intended to obtain an approved Jurisdictional Determination (JD) from the U.S. Army Corps of Engineers (USACE) with updated data that can extend the validity of the JD. The JD can guide design and permitting efforts as well as

support any necessary mitigation planning. The WRTR will be developed primarily from a field survey conducted over 2, 10-hour days. The purpose of the field survey is to provide an updated assessment and delineation of potential waters of the U.S. (WOUS) and wetlands that are located within the proposed ROW. The field survey will be conducted in accordance with the 1987 Army Corps Wetlands Delineation Manual (1987 Manual) and will utilize current acceptable methods for delineating wetland and jurisdictional WOUS boundaries (i.e. the ordinary high-water mark [OHWM]) including the use of a Trimble HX 6000 or better GPS unit capable of recording location with sub-meter accuracy. All data will be post-processed and assembled in to an ArcGIS shapefile (.shp) and used for applicable coordination and consultation as well as development of the WRTR.

### 3.2.5 U.S. Army Corps of Engineers Permitting

- (a) For planning purposes, it is assumed that permitting can be addressed under the 2017 Nationwide Permit 14 Linear Transportation for single and complete crossings.

### 3.2.6 Environmental Subs

#### (a) Barton Skyway Relief Ramp Geologic Assessment

- i. Cambrian will conduct a pedestrian field survey of the existing right-of-way according to the guidance in the Texas Commission on Environmental Quality (TCEQ) Instructions to Geologists. Time for the field survey could be subtracted from the Mopac South project (16 hours each for a Karst Geoscientist, a Senior Karst Geoscientist and a Project Manager). The cost assumes up to 36 hours for research of final plans, geotechnical borings/reports, published geologic maps or other available information that will be used to provide a near-surface geologic interpretation; up to 20 hours for report preparation and up to 16 hours to attend meetings. The BSRR was surveyed for karst features during the MoPac South geologic assessment investigation. Field work for this effort includes detailed analysis of project excavation sites in the context of mapped and observed geology to determine where previously undisturbed karstic bedrock may occur in the subsurface. This proposed field work is beyond what is required in a standard geologic assessment and is specifically intended to support a potential no effect determination for karst species based on a low likelihood of karst voids occurring within the top three feet.

#### (b) Barton Skyway Relief Ramp Karst Species Biological Technical Report

- i. This task provides supplementary budget to adapt and apply content from the preliminary and draft MoPac South technical reports (groundwater tech report, geologic assessment and karst species reports) to the BSRR project. Some content for this technical report (especially figures) will be unique to this project. The cost assumes up to 20 hours each for a Senior Karst Geoscientist and a Project Manager.

## 4 ENGINEERING AND FINAL DESIGN OVERSIGHT

### 4.1 Roadway Design Support

#### 4.1.1 Engineering Support

- (a) The Engineer shall provide support services on an as-needed basis to the design team providing engineering design services. The engineer will also provide support services during development of the bid documents.
- (b) The Engineer will meet to review the 50% schematic drainage design with the PS&E consultant and provide the PS&E consultant all CAD drawings used to develop the 50% schematic design.
- (c) The Engineer will provide QA/QC on PS&E submittals. Three formal reviews are anticipated at the 60%, 90%, and 100% design levels.

#### 4.1.2 Design Reviews

- (a) The Engineer shall provide a team of qualified reviewers to review the various design submittals on behalf of the Mobility Authority. It is assumed that a preliminary or 30% submittal will be required, followed by 60%, 90% and a final review.

## 5 PUBLIC INVOLVEMENT

### 5.1 Stakeholder outreach

- Develop a stakeholder engagement strategy
- Perform outreach to stakeholders via email and/or in-person meetings, in coordination with CTRMA Staff
- Hold Meetings with Affected Property Owners as applicable
- Prepare written stakeholder meeting summaries
- Conduct general public outreach to stakeholders
- Provide supporting staff as needed for stakeholder meetings and workshops.
- Facilitate and prepare documents and materials for public and stakeholder outreach
- Develop and maintain a stakeholder database and listening log to document public outreach
- Support the Mobility Authority in the development of miscellaneous public involvement materials including but not limited to fact sheets, stakeholder lists, presentations, advertisements, newsletters, social media content and community management.

## 6 PROCUREMENT OVERSIGHT/BID PHASE SUPPORT

### 6.1 Pre-Bid Meeting, Host Prepare Documentation, Prequal Coordination

Provide support in Pre-Bid Meeting duties including scheduling and hosting the meeting, preparing a meeting agenda, providing meeting information, recording meeting attendees, and leading the pre-construction meeting. Receive, process, and keep track of prequalification documents and maintain bidders updated with project.

### 6.2 Finalize Letting Documents

The GEC will review the bid package for consistency and CTRMA letting preferences.

### 6.3 Support Bidding Process, CivCast Setup, CivCast bidding, analysis

The GEC will support the Mobility Authority in the procurement of a construction contractor. Services include:

- CivCast Project Setup

- Answering questions from potential bidders within CivCast
- Preparing bid tab for prequalified bidders
- Setting up bid verification documents
- Leading bid verification meeting

#### **6.4 Award, Board Support, Contract Support**

The GEC will support the bid process using CivCast, develop analysis of bids received and host internal bid opening.



## Attachment B Fee Estimate Summary

CONTRACT TYPE	ATKINS	SUB-CONSULTANTS
	GEC OVERSIGHT CONTRACT	
<b>TASK 1 - PROJECT MANAMGEMENT - PRE-CONSTRUCTION</b>	\$ 117,730	\$ 18,760
PROFESSIONAL SERVICES PROCUREMENT	\$ 35,460	
<b>TASK 2 - PRELIMINARY ENGINEERING SERVICES</b>	\$ 23,870	\$ 26,400
SUE		\$ 39,472
SURVEY		\$ 54,577
<b>TASK 3 - ENVIRONMENTAL SERVICES</b>	\$ 66,270	\$ 30,168
<b>TASK 4 - ENGINEERING AND FINAL DESIGN OVERSIGHT</b>	\$ 36,890	\$ 7,020
<b>TASK 5 - PUBLIC INVOLVEMENT</b>	\$ 51,040	
<b>BASE SCOPE SUB-TOTAL</b>	<b>\$ 331,260</b>	<b>\$ 176,397</b>
<b>ADDITIONAL SERVICES</b>		
TASK 3.1 & 3.2.2 - NOISE ANALYSIS	\$ 31,200	
TASK 3.2.3 - ECOLOGICAL RESOURCES	\$ 37,760	
TASK 3.2.5 - USACE PERMITTING -	\$ 6,100	
TASK 6 - PROCUREMENT OVERSIGHT/BID PHASE SUPPORT	\$ 32,810	
SUB-TOTAL LABOR	\$ 439,130	\$ 176,397
SUB-TOTAL EXPENSES	\$ 3,250	\$ 26,000
PS&E CONTINGENCY (20%)		
GEC OVERSIGHT CONTRACTS CONTINGENCY(SUB-TOTAL + EXP) (20%)*	\$ 128,955	
<b>TOTAL BUDGET</b>	<b>\$ 571,335</b>	<b>\$ 202,397</b>
<b>TOTAL ATKINS WA#21_01 FEE (Prelim Eng, Oversight, ENV Clearance, Letting)</b>	<b>\$ 571,335</b>	<b>\$ 202,397</b>
*\$10K WSP contingency for additional travel time/modeling efforts		<b>\$ 773,732</b>

# Attachment B - Fee Labor Summary

Staff		Title	ENVIRONMENTAL/P RELIM ENG PHASE												ENV + FINAL DESIGN			FINAL DESIGN			Total Hours	Base Average Hourly Rate	Burdened Base Hourly Rate	Total \$
			2021												2022									
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar							
		<b>TASK 1 - PROJECT MANAMGEMENT - PRE-CONSTRUCTION</b>	0	89	169	156	173	142	115	85	64	63	78	63	64	63	70	1394			\$	171,950		
		<b>1.1 PROJECT MANAGEMENT</b>	0	89	169	156	173	142	115	85	64	63	78	63	64	63	70	1394			\$	171,950		
		<b>1.1.1 PROVIDE STAFF TO MANAGE THE DAILY ACTIVITIES OF THE PROJECT</b>	0	20	20	20	20	20	20	20	20	20	20	20	20	20	20	280			\$	37,470		
Taylor B	Atkins	Project Manager		16	16	16	16	16	16	16	16	16	16	16	16	16	224	\$	52.44	\$	136.75	\$	30,830	
Zane R	Atkins	Design Manager		4	4	4	4	4	4	4	4	4	4	4	4	4	56	\$	45.17	\$	117.79	\$	6,640	
		<b>1.1.2 DOCUMENT CONTROL</b>	0	2	4	4	4	4	4	4	4	4	4	4	4	4	54					\$	5,730	
Matt J	Atkins	Project Controls Manager		1	2	2	2	2	2	2	2	2	2	2	2	2	27	\$	52.00	\$	135.60	\$	3,690	
Wenzie G	Atkins	Administrative Assistant		1	2	2	2	2	2	2	2	2	2	2	2	2	27	\$	28.82	\$	75.16	\$	2,040	
		<b>1.1.3 SUB-CONSULTANT COORDINATION, WORK AUTHORIZATION MANAGEMENT AND INV</b>	0	24	24	20	20	20	20	17	9	9	9	9	9	9	208					\$	15,690	
Taylor B	Atkins	Project Manager		16	8	4	4	4	4	1	1	1	1	1	1	1	48	\$	28.82	\$	75.16	\$	3,610	
Wenzie G	Atkins	Administrative Assistant		8	16	16	16	16	16	16	8	8	8	8	8	8	160	\$	28.82	\$	75.16	\$	12,080	
		<b>1.1.4 PROJECT REPORTING</b>	0	2	6	6	6	6	6	6	6	6	6	6	6	6	80					\$	9,280	
Matt J	Atkins	Project Controls Manager		1	4	4	4	4	4	4	4	4	4	4	4	4	53	\$	52.00	\$	135.60	\$	7,240	
Wenzie G	Atkins	Administrative Assistant		1	2	2	2	2	2	2	2	2	2	2	2	2	27	\$	28.82	\$	75.16	\$	2,040	
		<b>1.1.5 PROJECT SCHEDULING</b>	0	3	19	10	11	4	5	18	5	4	19	4	5	4	11	122					\$	22,450
Matt J	Atkins	Project Controls Manager		1	2	2	2	2	2	2	2	2	2	2	2	2	27	\$	52.00	\$	135.60	\$	3,690	
Justin	Sub	Schedule Manager		1	1		1		1		1		1		1		8	\$	220.73	\$	220.73	\$	1,780	
Cody S	Sub	Senior Scheduler		1	16	8	8	2	2	16	2	2	16	2	2	2	8	87	\$	194.40	\$	194.40	\$	16,980
		<b>1.1.6 PROJECT DEVELOPMENT SUPPORT</b>	0	6	32	32	32	24	20	20	20	20	20	20	20	20	306					\$	45,870	
Taylor B	Atkins	Project Manager		2	16	16	16	16	16	16	16	16	16	16	16	16	210	\$	52.44	\$	163.25	\$	34,520	
Zane R	Atkins	Design Manager		4	16	16	16	8	4	4	4	4	4	4	4	4	96	\$	45.17	\$	117.79	\$	11,350	
		<b>1.1.7 PROFESSIONAL SERVICES PROCUREMENT</b>	0	32	64	64	80	64	40	0	0	0	0	0	0	0	344					\$	35,460	
Josh P	Atkins	Technical Spcialist		8	16	16	16	16	8								80	\$	52.00	\$	135.60	\$	10,850	
Zane R	Atkins	Design Manager		8	16	16	32	24	16								112	\$	45.17	\$	117.79	\$	13,190	
Marco C	Atkins	EIT		16	32	32	32	24	16								152	\$	28.82	\$	75.16	\$	11,420	

# Attachment B - Fee Labor Summary

Staff	Title	ENVIRONMENTAL/P RELIM ENG PHASE															Total Hours	Base Average Hourly Rate	Burdened Base Hourly Rate	Total \$				
		2021												2022										
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar								
	<b>TASK 2 - PRELIMINARY ENGINEERING SERVICES</b>	0	0	66	99	101	0	1	0	1	0	1	0	0	0	0	0	269			\$	349,088		
	<b>2.1 ROADWAY DESIGN</b>	0	0	66	66	66	0	0	0	0	0	0	0	0	0	0	0	198			\$	136,539		
	<b>2.1.1 TYPICAL SECTIONS</b>	0	0	18	18	18	0	0	0	0	0	0	0	0	0	0	0	54			\$	6,150		
Zane R	Atkins Design Manager			4	4	4												12	\$	45.17	\$	117.89	\$	1,410
Robby G	Atkins Roadway Lead			2	2	2												6	\$	78.08	\$	203.79	\$	1,220
Stacey K	Atkins Roadway Engineer			4	4	4												12	\$	46.07	\$	120.24	\$	1,440
Seles	Atkins EIT			8	8	8												24	\$	33.16	\$	86.55	\$	2,080
	<b>2.1.2 SCHEMATIC DEVELOPMENT</b>	0	0	48	48	32	0	0	0	0	0	0	0	0	0	0	0	128			\$		\$	15,150
Zane R	Atkins Design Manager			4	4	4												12	\$	45.17	\$	117.89	\$	1,410
Robby G	Atkins Roadway Lead			8	8	4												20	\$	78.08	\$	203.79	\$	4,080
Stacey K	Atkins Roadway Engineer			16	16	8												40	\$	46.07	\$	120.24	\$	4,810
Seles	Atkins EIT			20	20	16												56	\$	33.16	\$	86.55	\$	4,850
	<b>2.1.3 QA/QC</b>	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	16			\$		\$	2,570
Zane R	Atkins Design Manager					8												8	\$	45.17	\$	117.89	\$	940
Robby G	Atkins Roadway Lead					8												8	\$	78.08	\$	203.79	\$	1,630
Stacey K	Atkins Roadway Engineer																	0	\$	46.07	\$	120.24	\$	-
Seles	Atkins EIT																	0	\$	33.16	\$	86.55	\$	-
	<b>2.1.4 SURVEY AND SUE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			\$		\$	112,669
Inland	Sub Survey																	0			\$	-	\$	54,577
Anderson	Sub SUE Oversight																	0			\$	-	\$	18,620
SAM	Sub SUE																	0			\$	-	\$	39,472
K. Friese	<b>2.2 PRELIMINARY DRAINAGE DESIGN</b>	0	0	0	33	35	0	1	0	1	0	1	0	0	0	0	0	71			\$		\$	7,780
	<b>2.2 REPORTING AND ADMINISTRATION</b>	0	0	0	1	1	0	1	0	1	0	1	0	0	0	0	0	5			\$		\$	770
Charlotte Gilpin	SUB Project Manager				0.5	0.5		0.5		0.5		0.5						2.5	\$	86.50	\$	227.83	\$	570
	SUB Accounting Specialist				0.5	0.5		0.5		0.5		0.5						2.5	\$	30.00	\$	79.02	\$	200
	<b>2.2.1 DRAINAGE DESIGN SCHEMATIC</b>	0	0	0	32	34	0	0	0	0	0	0	0	0	0	0	0	66			\$		\$	7,010
Charlotte Gilpin	SUB Project Manager					2												2	\$	86.50	\$	227.83	\$	460
Geoffrey Elfers	SUB Senior Engineer				4	4												8	\$	60.00	\$	158.03	\$	1,260
Carolina Lara	SUB Project Engineer				8	8												16	\$	43.00	\$	113.26	\$	1,810
Kristen To	SUB Project Engineer				20	20												40	\$	33.00	\$	86.92	\$	3,480
WSP - Separate	<b>2.3 TRAFFIC OPERATIONS</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			\$		\$	18,065
	<b>2.3.1 REVIEW OF TRAVEL DEMAND MODEL</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			\$		\$	-

# Attachment B - Fee Labor Summary

		ENVIRONMENTAL/P RELIM ENG PHASE	ENV + FINAL DESIGN	FINAL DESIGN														Total Hours	Base Average Hourly Rate	Burdened Base Hourly Rate	Total \$
Staff	Title	2021												2022							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar					
Name	SUB	Sr. Supervising Engineer															0	\$ 83.00	\$ 217.05	\$ -	
Name	SUB	Sr. Engineer															0	\$ 54.00	\$ 141.21	\$ -	
		<b>2.3.2 REVIEW OF DAILY TRAFFIC FORECAST</b>															0			\$ -	
Name	SUB	Sr. Supervising Engineer															0	\$ 83.00	\$ 217.05	\$ -	
Name	SUB	Sr. Engineer															0	\$ 54.00	\$ 141.21	\$ -	
		<b>2.3.3 REVIEW OF DESIGN HOUR VOLUME</b>															0			\$ -	
Name	SUB	Sr. Supervising Engineer															0	\$ 83.00	\$ 217.05	\$ -	
Name	SUB	Sr. Engineer															0	\$ 54.00	\$ 141.21	\$ -	
Name	SUB	Engineer I															0	\$ 36.00	\$ 94.14	\$ -	
		<b>2.3.4 REVIEW FORECAST METHODOLOGY REPORT &amp; FACILITATE TP&amp;P REVIEW</b>															0			\$ -	
Name	SUB	Sr. Supervising Engineer															0	\$ 83.00	\$ 217.05	\$ -	
Name	SUB	Sr. Engineer															0	\$ 54.00	\$ 141.21	\$ -	
Name	SUB	Engineer I															0	\$ 36.00	\$ 94.14	\$ -	
		<b>2.3.5 MEETING ATTENDANCE AND PROJECT MANAGEMENT</b>															0			\$ -	
Name	SUB	Transportation Program Manager															0	\$ 120.00	\$ 313.80	\$ -	
Name	SUB	Sr. Supervising Engineer															0	\$ 83.00	\$ 217.05	\$ -	
Name	SUB	Sr. Engineer															0	\$ 54.00	\$ 141.21	\$ -	
CDM Smith - Separate		<b>2.4 TRAFFIC MODELING</b>															0			\$ 186,704	
		<b>2.4.1 PROEJCT TRAFFIC FORECAST DEVELOPMENT</b>															0			\$ -	
		<b>2.4.2 PROJECT MANAGEMENT, QC, MEETINGS, AND COORDINATION</b>															0			\$ -	
		<b>2.4.3 MISCELLANEOUS ANALYSIS AND STUDY SUPPORT</b>															0			\$ -	

# Attachment B - Fee Labor Summary

Staff		Title	ENVIRONMENTAL/P RELIM ENG PHASE												ENV + FINAL DESIGN			FINAL DESIGN			Total Hours	Base Average Hourly Rate	Burdened Base Hourly Rate	Total \$
			2021												2022									
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar							
		<b>TASK 3 - ENVIRONMENTAL SERVICES</b>	0	0	118	162	97	69	43	27	8	0	0	0	0	0	0	0	524			\$	96,438	
		<b>3.1 PROJECT MANAGEMENT</b>	0	0	32	30	29	29	33	25	8	0	0	0	0	0	0	0	186			\$	33,210	
		<b>3.1.1 PROJECT MANAGEMENT</b>	0	0	32	30	29	29	33	25	8	0	0	0	0	0	0	0	186			\$	33,210	
Ryan Hill	Atkins	Environmental Manager			16	16	16	16	24	16	8							112	\$	77.70	\$	22,690		
Lara Zuzak	Atkins	Dept. Environmental Manager			12	8	8	8	4	4								44	\$	69.00	\$	7,920		
Ryan Fennell	Atkins	GIS Task Manager			1	3	2	2	2	2								12	\$	41.58	\$	1,300		
Kris Carpenter	Atkins	Admin/Clerical			3	3	3	3	3	3								18	\$	27.68	\$	1,300		
		<b>3.2 ENVIRONMENTAL DOCUMENT DEVELOPMENT</b>	0	0	86	132	68	40	10	2	0	0	0	0	0	0	0	338			\$	63,228		
		<b>3.2.1 CE PREPARATION</b>	0	0	30	92	34	22	10	2	0	0	0	0	0	0	0	190			\$	20,200		
Kathryn Saucier	Atkins	Environmental Scientist			4	14	2	2	2	2								26	\$	31.65	\$	2,150		
Kelley Russell	Atkins	Cultural Resources			24	12												36	\$	39.97	\$	3,750		
Alex Amponsah	Atkins	Senior Planner				24	4	4										32	\$	56.73	\$	4,730		
Lauren Kotwall	Atkins	Senior Planner				24	16	8										48	\$	38.76	\$	4,850		
Jen Whitte	Atkins	GIS			2	2												4	\$	28.52	\$	300		
Keith Hidalgo	Atkins	QC				8	4											12	\$	56.95	\$	1,780		
Jenifer Sullivan	Atkins	Tech Editor				8	8	8	8									32	\$	31.67	\$	2,640		
		<b>3.2.4 WATER RESOURCES</b>	0	0	56	40	34	18	0	0	0	0	0	0	0	0	0	148			\$	12,860		
John Kemmey	Atkins	Scientist			16	16	16	8										56	\$	33.78	\$	4,930		
Stacie Mogilevski	Atkins	Scientist			16	10	8	4										38	\$	24.40	\$	2,420		
Jen Whitte	Atkins	GIS			8	4	2	2										16	\$	28.52	\$	1,190		
Keith Hidalgo	Atkins	QC			8	4	4	2										18	\$	56.95	\$	2,670		
Jenifer Sullivan	Atkins	Technical Editor			8	6	4	2										20	\$	31.67	\$	1,650		
		<b>3.2.6 ENVIRONMENTAL SUBS</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			\$	30,168		
Name	Sub	Cambrian Environmental																0			\$	30,168		
		<b>TASK 4 - ENGINEERING AND FINAL DESIGN OVERSIGHT</b>	0	0	0	0	0	0	80	14	76	10	64	10	10	10	10	284			\$	43,910		
		<b>4.1 ROADWAY DESIGN SUPPORT &amp; OVERSIGHT</b>	0	0	0	0	0	0	80	14	76	10	64	10	10	10	10	284			\$	43,910		
		<b>4.1.1 ENGINEERING SUPPORT &amp; OVERSIGHT</b>	0	0	0	0	0	0	24	6	22	4	22	4	4	4	4	94			\$	19,780		
Taylor B	Atkins	Project Manager							8	8	6	6	6	6	6	6	6	58	\$	52.44	\$	8,010		
Zane R	Atkins	Roadway Lead							6	6	4	4	4	4	4	4	4	40	\$	45.17	\$	4,750		
Charlotte Gilpin	SUB	Project Manager							2		2		2					6	\$	86.50	\$	1,370		
Geoffrey Elfers	SUB	Senior Engineer							4		4		4					12	\$	60.00	\$	1,900		
Carolina Lara	SUB	Project Engineer							6		6		6					18	\$	43.00	\$	2,040		

# Attachment B - Fee Labor Summary

Staff		Title	ENVIRONMENTAL/P RELIM ENG PHASE												ENV + FINAL DESIGN			FINAL DESIGN			Total Hours	Base Average Hourly Rate	Burdened Base Hourly Rate	Total \$
			2021												2022									
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar							
Trey Stewart	SUB	Project Engineer							6		6		6					18	\$ 36.00	\$ 94.82	\$ 1,710			
		<b>4.1.2 DESIGN REVIEWS</b>	0	0	0	0	0	0	48	0	48	0	36	0	0	0	0	132			\$ 24,130			
Roberto Garcia	Atkins	Lead Reviewer							16		16		12					44	\$ 80.83	\$ 210.79	\$ 9,270			
Zane R	Atkins	Roadway Reviewer							16		16		12					44	\$ 45.17	\$ 117.79	\$ 5,180			
Rob K	Atkins	Construction Manager/Constructability							16		16		12					44	\$ 84.35	\$ 219.97	\$ 9,680			

# Attachment B - Fee Labor Summary

Staff	Title	ENVIRONMENTAL/P RELIM ENG PHASE												ENV + FINAL DESIGN			FINAL DESIGN			Total Hours	Base Average Hourly Rate	Burdened Base Hourly Rate	Total \$
		2021												2022									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar							
	<b>TASK 5 - PUBLIC INVOLVEMENT</b>	0	16	32	32	32	32	32	32	32	32	32	32	32	32	32	432			\$ 51,040			
	<b>5.1 STAKEHOLDER OUTREACH</b>	0	16	32	32	32	32	32	32	32	32	32	32	32	32	32	432			\$ 51,040			
Katie K	Atkins Public Involvement Manager		8	16	16	16	16	16	16	16	16	16	16	16	16	16	216	\$ 56.25	\$ 146.69	\$ 31,900			
Hillary R	Atkins Public Involvement Specialist		8	16	16	16	16	16	16	16	16	16	16	16	16	16	216	\$ 33.75	\$ 88.01	\$ 19,140			
	<b>XX - EXPENSES</b>																			\$ 29,250			
	Atkins			3	4	3	2	2	2	2	2	2	2	2	2	2	-	\$ 250		\$ 29,250			
	PI			1	1	1	1	1	1	1	1	1	1	1	1	1	13	\$ 250.00	\$ 250.00	\$ 3,250			
	SUE			1	1	1											3	\$ 1,000.00	\$ 1,000.00	\$ 3,000			
	SURVEY			0	1	0											1	\$ 10,000.00	\$ 10,000.00	\$ 10,000			
	Other			1	1	1	1	1	1	1	1	1	1	1	1	1	13	\$ 1,000.00	\$ 1,000.00	\$ 13,000			
																				\$ 741,676			
<b>ADDITIONAL SERVICES</b>																							
	<b>TASK 3 - ENVIRONMENTAL SERVICES</b>	0	0	69	223	290	190	134	18	4	0	0	40	64	80	68	1180			\$ 83,970			
	<b>3.1 PROJECT MANAGEMENT</b>	0	0	8	8	8	8	8	8	4	0	0	0	0	0	0	52			\$ 83,970			
	<b>3.1.1 PROJECT MANAGEMENT</b>	0	0	8	8	8	8	8	8	4	0	0	0	0	0	0	52			\$ 8,910			
Ryan Hill	Atkins Environmental Manager			4	4	4	4	4	4	4							28	\$ 77.70	\$ 202.61	\$ 5,670			
Lara Zuzak	Atkins Dept. Environmental Manager			2	2	2	2	2	2								12	\$ 69.00	\$ 179.92	\$ 2,160			
Ryan Fennell	Atkins GIS Task Manager			1	1	1	1	1	1								6	\$ 41.58	\$ 108.43	\$ 650			
Kris Carpenter	Atkins Admin/Clerical			1	1	1	1	1	1								6	\$ 27.68	\$ 72.18	\$ 430			
	<b>3.2.2 NOISE</b>	0	0	45	77	76	48	68	10	0	0	0	0	0	0	0	324			\$ 31,200			
Jenifer Sullivan	Atkins Technical Editor					8	8	8									24	\$ 31.67	\$ 82.59	\$ 1,980			
Phil Still	Atkins Noise Specialist			14	59												73	\$ 41.64	\$ 108.59	\$ 7,930			
Cristina Schoonard	Atkins Noise Lead			27	10	60	30	30	10								167	\$ 33.25	\$ 86.71	\$ 14,480			
Bryant Brantley	Atkins Transportation Planner/QC							30									30	\$ 44.26	\$ 115.42	\$ 3,460			
Janna Rosenthal	Atkins Transportation Planner/QC			4	8	8	10										30	\$ 42.86	\$ 111.77	\$ 3,350			
	<b>3.2.3 ECOLOGICAL RESOURCES</b>	0	0	16	138	154	108	58	0	0	0	0	0	0	0	0	474			\$ 37,760			
John Kemmey	Atkins Scientist			8	40	40	40	24									152	\$ 33.78	\$ 88.09	\$ 13,390			
Christina Powell	Atkins Scientist				8	8	8										24	\$ 25.73	\$ 67.10	\$ 1,610			
Stacie Mogilevski	Atkins Scientist			8	80	70	40	16									214	\$ 24.40	\$ 63.62	\$ 13,620			
Keith Hidalgo	Atkins QC					20	8	8									36	\$ 56.95	\$ 148.51	\$ 5,350			
Jenifer Sullivan	Atkins Technical Editor					12	8	6									26	\$ 31.67	\$ 82.59	\$ 2,150			
Jen Whitte	Atkins GIS				10	4	4	4									22	\$ 28.52	\$ 74.37	\$ 1,640			
	<b>3.2.5 U.S. ARMY CORPS OF ENGINEERS (USACE) PERMITTING</b>	0	0	0	0	52	26	0	0	0	0	0	0	0	0	0	78			\$ 6,100			

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Staff		Title	ENVIRONMENTAL/P RELIM ENG PHASE												ENV + FINAL DESIGN			FINAL DESIGN			Total Hours	Base Average Hourly Rate	Burdened Base Hourly Rate	Total \$
			2021												2022									
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar							
John Kemmey	Atkins	Scientist					10	10										20	\$ 33.78	\$ 88.09	\$ 1,760			
Stacie Mogilevski	Atkins	Scientist					32	10										42	\$ 24.40	\$ 63.63	\$ 2,670			
Jen Whitte	Atkins	GIS					4	2										6	\$ 28.52	\$ 74.37	\$ 450			
Keith Hidalgo	Atkins	QC					4	2										6	\$ 56.95	\$ 148.51	\$ 890			
Jenifer Sullivan	Atkins	Technical Editor					2	2										4	\$ 31.67	\$ 82.59	\$ 330			
		<b>TASK 6 - PROCUREMENT OVERSIGHT/BID PHASE SUPPORT</b>	0	0	0	0	0	0	0	0	0	0	0	40	64	80	68	252			\$ 32,810			
		<b>6.1 PRE-BID MEETING, HOST, PREPARE DOCUMENTATION, PREQUAL COORDINATION</b>	0	0	0	0	0	0	0	0	0	0	0	40	40	40	0	120			\$ 14,910			
Taylor B	Atkins	Project Manager												8	8	8		24	\$ 72.08	\$ 187.97	\$ 4,600			
Josh P	Atkins	Technical Specialist												16	16	16		48	\$ 51.92	\$ 135.40	\$ 6,630			
Marco C	Atkins	Engineer I												16	16	16		48	\$ 28.85	\$ 75.23	\$ 3,680			
		<b>6.2 FINALIZE LETTING DOCUMENTS</b>	0	0	0	0	0	0	0	0	0	0	0	24	40	0		64			\$ 8,310			
Taylor B	Atkins	Project Manager													8	8		16	\$ 72.08	\$ 187.97	\$ 3,100			
Josh P	Atkins	Technical Specialist													8	16		24	\$ 51.92	\$ 135.40	\$ 3,350			
Marco C	Atkins	Engineer I													8	16		24	\$ 28.85	\$ 75.23	\$ 1,860			
		<b>6.3 SUPPORT BIDDING PROCESS, CIVCAST SETUP, CIVCAST BIDDING, ANALYSIS</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	36			\$ 4,240			
Taylor B	Atkins	Project Manager															4	4	\$ 72.08	\$ 187.97	\$ 770			
Josh P	Atkins	Technical Specialist															16	16	\$ 51.92	\$ 135.40	\$ 2,230			
Marco C	Atkins	Engineer I															16	16	\$ 28.85	\$ 75.23	\$ 1,240			
		<b>6.4 AWARD, BOARD SUPPORT, CONTRACT SUPPOT</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	32			\$ 5,350			
Taylor B	Atkins	Project Manager															16	16	\$ 72.08	\$ 187.97	\$ 3,100			
Zane R	Atkins	Deputy Project Manager															16	16	\$ 52.44	\$ 136.75	\$ 2,250			
																			Additional Services Sub-Total		\$ 116,780			
																			<b>Grand Total</b>		\$ 858,456			