



**Tooele County Council  
 Agenda Item Summary**

**Department Making Request:**

Airport

**Meeting Date:**

3/1/2022

*ratification 3.15*

**Mark Options That Apply:**

**Grant**  
*1 time*

**Contract**  
*1 yr. or less*

**Purchase**

Exp date: \_\_\_\_\_

**Grant**  
*With County Match*

**Contract**  
*More than 1 yr.*

Exp date: \_\_\_\_\_

**Budget Impact:**

**In Budget**

**Over Budget**

**Requested Amount: \$** 13,696

**Item Title:** Wendover Airport Improvement Program 039 Amendment No.2

*Please answer the who? what? when? why?*

Adds engineering fees for Aviation to FAA project 039 which is Pavement Maintenance on Runway 8/26, Taxiway A, A1, and B. The engineering fees have been approved by the FAA. The FAA will pay 90% of these fees. The total cost of the engineering fees is estimated to be \$136,967.08. The airport will pay approximately \$13,696 of the total.

**List who needs copies when approved:**

AMENDMENT NO. TWO (2) TO CONTRACT  
DATED JANUARY 22, 2021  
BETWEEN  
AVIATION, A WOOLPERT COMPANY  
AND  
TOOELE COUNTY – WENDOVER AIRPORT  
WENDOVER, UT

The Sponsor and the Engineer agree to amend their contract for improvements to the Tooele County – Wendover Airport, Wendover, Utah to include fees for engineering services. The improvement Item No. 4 is included in the Scope of Work of the original contract. The item covered by this amendment is described as follows:

- Pavement Maintenance on Runway 8/26, Taxiway A, A1 and B

The Sponsor agrees to pay the Engineer for the services listed under Section 2 of the original contract in the following manner, and within the time constraints outlined in the AIP development schedule.

**PART A - BASIC SERVICES**

DESIGN

Preliminary Design ..... Lump sum of \$10,080.00  
Design ..... Lump sum of \$48,585.00

BIDDING

Bidding..... Lump sum of \$13,570.00

TOTAL BASIC SERVICES ..... Lump sum of \$72,235.00

Method of payment shall be as follows:

If work is abandoned, or terminated, after obtaining approval by the Sponsor and the FAA of the final construction plans and specifications, the Sponsor shall reimburse up to 100 percent of the total lump sum as listed under PART A, and 100 percent of the invoiced costs for soils and pavement investigations, topographic surveys, and hydrological studies, or other studies as listed under PART B.

The FAA’s federal action is limited to airport layout plan (ALP) approval of only those portions of projects that meet the criteria established in 49 U.S.C. §47107(a)(16)(B), commonly referred to as Section 163(d) of the FAA Reauthorization Act of 2018. If it is determined that the FAA does not have authority over a portion of the project and associated work completed ahead of the determination is no longer FAA eligible, the Sponsor will remain responsible for this portion of the work.

**PART B - SPECIAL SERVICES**

The maximum estimated SPECIAL SERVICES engineering is as follows:

CONSTRUCTION ADMINISTRATION

Construction Administration ..... Lump sum of \$11,980.00

Post Construction ..... Lump sum of \$14,610.00

TOTAL CONSTRUCTION ADMINISTRATION ..... Lump sum of \$26,590.00

CONSTRUCTION COORDINATION AND FIXED FEE

Construction Coordination ..... Cost Plus of \$27,104.42

Fixed Fee for Construction Coordination ..... Lump Sum of \$4,065.66

REIMBURSABLE COSTS

Reimbursable Costs During Construction Coordination..... Actuals Not to Exceed of \$6,972.00

TOTAL CONSTRUCTION COORDINATION AND FIXED FEE.....\$38,142.08

TOTAL SPECIAL SERVICES..... \$64,732.08

TOTAL..... \$136,967.08

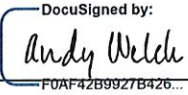
Method of payment shall be as follows:

For services rendered under PART B - SPECIAL SERVICES, the Sponsor agrees to make monthly payments based upon the work performed by the Engineer, up to 90 percent of the total contract. The final ten percent of the fee shall be due and payable when the project final inspection and the construction report have been completed, and when reproducible Record Drawings have been submitted to the Sponsor and when the revised Airport Layout Plan has been approved by the FAA or when the construction work has terminated. The Record Drawings and Construction Report shall be submitted within a period of 90 days from end of construction period.

All other terms and conditions of the original contract shall remain in effect.

IN WITNESS WHEREOF, the parties hereto have affixed their signatures this 23 day of February 2022.

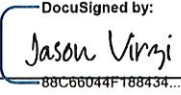
SPONSOR:  
Tooele County – Wendover Airport

By:   
DocuSigned by: F0AF42B9927B426...

Name: Andy Welch

Title: County Manager

ENGINEER:  
Aviation, A Woolpert Company

By:   
DocuSigned by: 88C66044F188434...

Name: Jason Virzi, PE

Title: Vice President

**APPROVED AS TO FORM:**

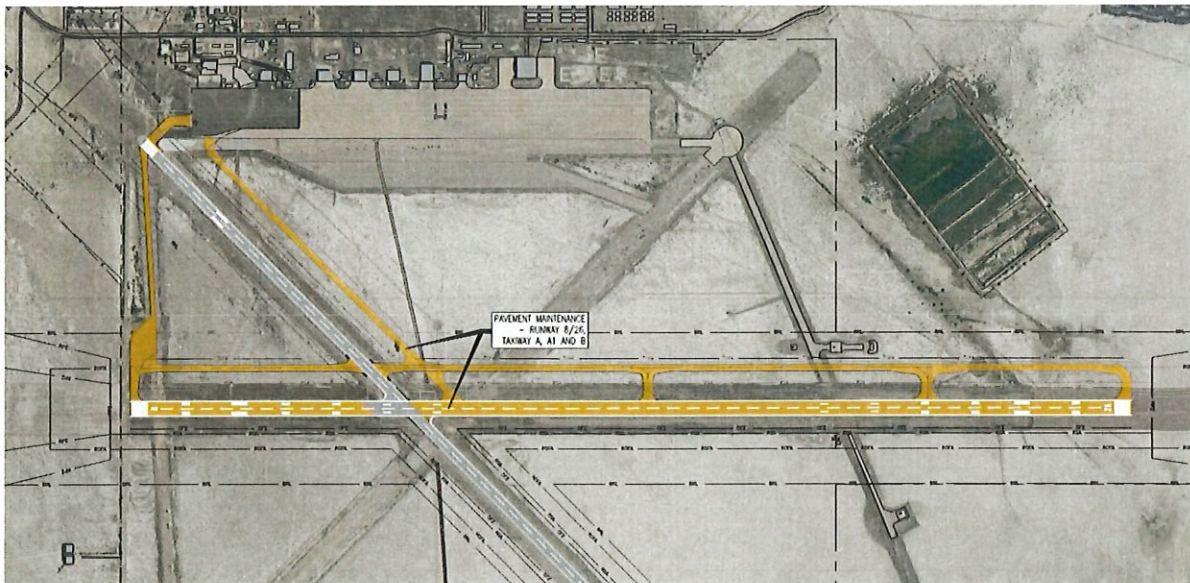
 03/10/2022

**Colin R. Winchester**  
**Deputy Tooele County Attorney**

**SCOPE OF WORK  
FOR  
WENDOVER AIRPORT  
Wendover, Utah  
AIP Project No. 3-49-0046-039-2022  
Pavement Maintenance Project**

This is an Appendix attached to, made a part of and incorporated by reference with the Consulting Contract dated January 22, 2021 between Tooele County and Jviation, a Woolpert Company for providing professional services. For the remainder of this scope the Tooele County is indicated as "Sponsor" and Jviation, a Woolpert Company is indicated as "Engineer." The construction budget for this project is approximately \$850,000.00. This budget does not include administrative, legal, or professional fees.

This project shall consist of preparing Construction Plans, Contract Documents, Technical Specifications and Engineer's Design Report, along with Bidding, Construction Administration, Post Construction, and On-Site Construction Coordination for the Pavement Maintenance Project. This scope of work is for the consulting services provided by the Engineer for the Sponsor. See Exhibit No. 1 below for the project location.



**EXHIBIT NO. 1**

**DESCRIPTION**

The existing airside asphalt pavements are in need of routine pavement maintenance. It is best practice to perform pavement maintenance every five years which will extend the useful life of the pavement. The previous pavement maintenance project was completed in 2015. Approximately 310,000 square yards of the existing pavement will be rehabilitated with a rejuvenator. The project will include crack seal, fog seal and painting of the pavements. Two applications of paint markings will be applied, one temporary application and one permanent application.

The engineering fees for this project will be broken into two parts. Part A-Basic Services includes; 1)

Preliminary Design Phase, 2) Design Phase, 3) Bidding Phase, and Reimbursable Costs During Design and Bidding and Part B-Special Services, which includes; 4) Construction Administration Phase, 5) Post Construction Phase, 6) On-Site Construction Coordination Phase or Field Engineering, and Reimbursable Costs During Construction. Parts A and B and the six phases are described in more detail below.

**PART A - BASIC SERVICES** consists of the Preliminary Design Phase, Design Phase, and Bidding Phase, all invoiced on a lump sum basis.

### **1.0 Preliminary Design Phase**

**1.01 Coordinate and Attend Meetings with the Sponsor and FAA.** Meetings with the Sponsor and the FAA will take place to determine critical project dates, establish the proposed design schedule and AIP development schedule, review environmental component(s), determine the feasibility of the proposed project. Various meetings during the design phase will also be conducted to review the progress of the design, discuss construction details and proposed time frame of construction and identify any special requirements for the project. It is anticipated that there will be up to three meetings with the Sponsor and/or the FAA throughout the course of the design.

**1.02 Prepare Project Scope of Work and Contract.** This task includes establishing the scope of work through meetings outlined above. Fees will be negotiated with the Sponsor and may be subject to an independent fee estimate conducted by a third party hired by the Sponsor. This task also includes drafting the contract for the work to be completed by the Engineer for the Sponsor once negotiations are complete.

**1.03 Provide Project Coordination.** The Engineer shall provide project management and coordination services to ensure the completion of the design. These duties include:

- Time the Engineer spends planning, organizing, securing and scheduling resources, and providing instruction to staff to meet project objectives as defined in the approved scope of work.
- The Engineer will analyze the budget semi-monthly to ensure budget and staffing needs are on track to meet design schedules within budget.
- Additional items to be accomplished include compiling and sending additional information requested from the office to related parties, maintaining project files as necessary and other items necessary in day-to-day project coordination.
- The Engineer will prepare and submit monthly invoicing.

The Engineer will complete the following tasks:

- Provide the Sponsor with a monthly Project Status Report (PSR), in writing, reporting on Engineer's progress and any problems that may arise while performing the work. The PSR must include an update of the project schedule, as described in this section, when schedule changes are expected.
- Submit for acceptance and maintain, a design schedule detailing the scheduled performance of the work.
- Create and maintain a Quality Control Checklist (QCC) for the project. The QCC shall include personnel, project milestone checking and peer review procedures at each phase of the project.

**1.04 Review Existing Documents.** The Engineer will gather and review existing available documentation that may be relevant to the project, including, but not limited to, record drawings (as-builts), design

reports, final reports, utility reports/maps and previous surveys. The Engineer may use relevant information from this review to coordinate the design for the project.

**1.05 Prepare Federal Grant Application.** This task consists of preparing the federal grant application. The application will be submitted during the initial portion of the project. Preparation of the application includes the following:

- Prepare Federal 424 form.
- Prepare Federal Form 5100 II thru IV.
- Prepare project funding summary.
- Prepare program narrative, discussing the purpose and need of the work and the method of accomplishment.
- Project sketch (8.5" x 11").
- Include preliminary cost estimate.
- Include the existing Exhibit "A" Property Map.
- Include the Sponsor's certifications.
- Attach the current grant assurances.
- Include DOT Title VI assurances.
- Include certification for contract, grants and cooperative agreements.
- Include Title VI pre-award checklist.
- Include current FAA advisory circulars required for use in AIP funded projects.

The Engineer shall submit the grant application to the Sponsor for approval and signatures. After obtaining the necessary signatures, the Sponsor or Engineer shall forward a copy of the signed application to the FAA for further processing.

**1.06 Prepare Environmental Documentation.** The project will be environmentally approved through the FAA's internal memorandum. The environmental conditions and scope of the project have not changed since original approval. An overall environmental exhibit will be created as part of this scope of work, approved by the FAA, and referenced throughout the project.

| TASK 1 DELIVERABLES  | TO FAA/STATE | TO SPONSOR |
|--|--------------|------------|
| 1.01 Meeting Agendas, AIP Development Schedule and Meeting Minutes from Pre-Design Meeting | ✓            | ✓          |
| 1.02 Scope of Work and Draft Contract for the Sponsor                                      | ✓            | ✓          |
| 1.03 Design Schedule, Project Status Report, and Monthly Invoicing                         | ✓            | ✓          |
| 1.05 Federal Grant Application   | ✓            | ✓          |
| 1.06 Environmental Documentation   | ✓            | ✓          |

| TASK 1 MEETINGS/SITE VISITS                     | LOCATION/ATTENDEES/DURATION   |
|---|---|
| 1.01 Pre-Design Kickoff Meeting                 | <ul style="list-style-type: none"> <li>• Wendover, Utah - One (1) Project Manager - Assume One (1) hour via teleconference (1 meeting)</li> </ul> |
| 1.02 Prepare Project Scope of Work and Contract | <ul style="list-style-type: none"> <li>• Wendover, Utah - One (1) Project Manager - Assume One (1) hour via teleconference (1 meeting)</li> </ul> |

## **2.0 Design Phase**

**2.01 Prepare Preliminary Contract Documents.** This task includes preparing the Preliminary Contract Documents, including Contract Proposal, Bid Bond, Contractor Information Sheet, Subcontractor/Material Supplier List, Disadvantaged Business Utilization Commitment, DBE Participation Form, Certification of Non-Segregated Facilities, Equal Employment Opportunity Report Statement, Buy America Certification, Buy America Waiver Request, Buy America Conformance Listing, Bid Proposal, Contract, Payment Bond, Performance Bond, Notice of Award, Notice to Proceed, Notice of Contractor's Settlement, General Provisions, FAA AC 150/5370-2, Operational Safety on Airports During Construction, and Wage Rates. The wage rates will be updated at the time of advertisement to reflect the most current wage rates available. Preparation will include establishing the location for the bid opening, dates for advertisement and description of the work schedule. Also included in the Preliminary Contract Documents, and covered under separate tasks below, are the Construction Safety and Phasing Plan, Technical Specifications, and Special Provisions. Preliminary Contract Documents will be prepared as early as possible during the design phase and submitted to the Sponsor for review.

**2.02 Prepare Construction Safety and Phasing Plan (CSPP).** This task includes meeting with the Sponsor to discuss the current operations of the airport to assist in determining how the proposed construction phasing of the project will affect these operations. From these meetings, a complete Construction Safety and Phasing Plan (CSPP) will be developed to ensure safety compliance when coordinating construction activities and airport operations. The CSPP will be developed in accordance with the requirements of FAA AC 150/5370-2, Operational Safety on Airports During Construction. A construction phasing plan that meets the requirements of the AC and operational needs of the airport will be developed and included in the Contract Documents. This plan will also identify any nighttime work, continuous working times, or other unusual conditions that could affect the Contractor's normal progress on the project. The draft CSPP will be submitted at 30% complete and at 95% complete for ADO review. Upon preliminary approval from the ADO, the CSPP will be submitted to FAA for OE/AAA coordination.

**2.03 Prepare Preliminary Construction Plans.** This task includes preparing the following list of construction plans for the project. Additional plans may be added during the design phase as needed:

| <b>Plan Name/Description</b>   | <b>Number of Sheets</b> |
|--|-------------------------|
| Cover Sheet  | 1                       |
| Index of Drawings, Summary of Approximate Quantities and General Notes | 1                       |
| Construction Layout Plan   | 1                       |
| Survey Control Plan  | 1                       |
| Safety Plan  | 1                       |
| Construction Phasing Plan  | 5                       |
| Geometric Layout Plan  | 10                      |
| Pavement Marking Plan  | 10                      |
| Pavement Marking and Miscellaneous Details                             | 12                      |
| Total Sheet Count  | 42                      |

**2.04 Prepare Preliminary Technical Specifications.** This task includes assembling the technical specifications necessary for the project. Standard FAA specifications will be utilized where possible, with the guidance from FAA AC 150/5370-10H, Standard Specifications for Construction of Airports. Additional specifications will be prepared to address work items for materials that are not covered by the standard FAA specifications. The standard specifications to be utilized shall include, but are not limited to, the

following:

- Item C-100 Contractor Quality Control Program (CQCP)
- Item C-105 Mobilization
- Item P-101 Preparation/Removal of Existing Pavements
- Item P-608 Emulsified Asphalt Seal Coat
- Item P-620 Runway and Taxiway Marking

**2.05 Prepare Preliminary Special Provisions.** This task includes preparing the preliminary Special Provisions to address, or expound on, site conditions that require additional clarification. These include, but are not limited to: Haul Roads, Airport Security, Radio Communications, Work Schedule, Contractor's Quality Control Program, Sequencing of the Work, Closure of Air Operations Areas, Accident Prevention, Underground Cables/Utilities, Insurance, Indemnification, Sales and Use Taxes, Permits and Compliance with Laws, Executed Contracts, Subletting or Assigning of Contracts, Qualification of Disadvantaged Business Enterprises, Liquidated Damages.

**2.06 Compile/Submit FAA Form 7460.** This task includes preparing and submitting the required FAA Form 7460 on the Sponsor's behalf. The anticipated use of equipment during construction requires an FAA Form 7460 to be sent to the FAA a minimum of 45 days prior to the start of construction for approval. The Engineer will prepare exhibits to illustrate the project limits and temporary construction equipment height.

**2.07 Calculate Estimated Quantities.** This task includes calculating all necessary quantities for the various work items. Quantities must be consistent with the specifications and acceptable quantity calculation practices.

**2.08 Prepare Estimate of Probable Construction Cost.** Using the final quantities calculated following the completion of the construction plans and specifications, the Engineer will prepare the construction cost estimate. The estimate will be based on information obtained from previous projects, contractors, material suppliers and other available databases.

**2.09 Prepare Engineer's Design Report and Modification of Standards.** This task includes preparation of the Engineer's Design Report in accordance with current FAA Northwest Mountain Region Engineer's Design Report guidelines. The Engineer's Design Report will include a detailed summary of the project, photographs and descriptions of existing site conditions, estimate of project costs, and a schedule for the completion of the design, bidding, and construction. Modifications of the FAA standards, as necessary, for the project will be prepared for preliminary review.

**2.10 Review Plans at 60% and 90% Complete.** During various stages of completion of the design, the Engineer will submit a set of Construction Plans, Specifications, and Contract Documents to the Sponsor for their review. Meetings will be scheduled for periodic reviews, including a 90% plans-in-hand review. The project will be reviewed with the FAA to obtain their concurrence with the design.

**2.11 Provide In-House Quality Control.** The Engineer has an established quality control program that will provide both experienced and thorough reviews of all project submittals and will also provide engineering guidance to the design team throughout design development from an experienced, senior-level Professional Engineer.

Prior to each review set of Construction Plans, Specifications, Contract Documents, and Engineer's Design



Report being submitted to the Sponsor and FAA, a thorough, in-house quality control review of the documents will be conducted. This process will include an independent review of the Construction Plans, Specifications, Contract Documents, and Engineer's Design Report being submitted by a licensed Professional Engineer other than the Engineer who performed the design of the project. Comments will be offered by the Engineer that performed the review, and revisions to the Construction Plans, Specifications, Contract Documents, and Engineer's Design Report will be made accordingly.

In addition to the 60% and 90% reviews, the Engineer's in-house quality control program also provides engineering guidance to the design team throughout the project design in an attempt to steer the project in a manner that provides the best engineering judgment.

At the 90% design review, the independent review will re-evaluate the CATEX boundary.

**2.12 Prepare and Submit Construction Plans, Specifications, Contract Documents, and Engineer's Design Report.** A final set of Construction Plans (11" x 17"), Specifications, Contract Documents, and the Engineer's Design Report will be prepared and submitted to the Sponsor and the FAA. These documents will incorporate all revisions, modifications, and corrections identified during the final review. Paper and electronic copies will be provided.

| TASK 2 DELIVERABLES  | TO FAA/STATE | TO SPONSOR |
|--|--------------|------------|
| 2.01 Preliminary Contract Documents for Sponsor's Review   | ✓            | ✓          |
| 2.02 CSPP at 30% and 95% Complete  | ✓            | ✓          |
| 2.06 FAA Form 7460   | ✓            | ✓          |
| 2.10 60% and 90% Construction Plans, Specifications, Contract Documents, and Design Report         | ✓            | ✓          |
| 2.12 Final Construction Plans, Specifications and Contract Documents, and Engineer's Design Report | ✓            | ✓          |

| TASK 2 MEETINGS/SITE VISITS                                       | LOCATION/ATTENDEES/DURATION   |
|---|---|
| 2.10 Plan Review at 60% Complete.<br>Plan Review at 90% Complete. | <ul style="list-style-type: none"> <li>Wendover, Utah - One (1) Project Manager - Assume One (1) hour via teleconference (1 meeting)</li> </ul> |

### **3.0 Bidding Phase**

**3.01 Provide Bid Assistance.** The Engineer will assist the Sponsor, as needed, with any required bidding documents such as: project advertisement in the Daily Journal and Tooele Transcript Bulletin to solicit for bids to potential contractors and plan rooms. The Engineer will coordinate payment for the project advertisement(s) and request reimbursement from the Sponsor as a pass-through cost during invoicing.

**3.02 Prepare/Conduct Pre-Bid Meeting.** The Engineer will conduct the pre-bid meeting and pre-bid site visit in sequence with the Sponsor and contract document requirements. As a part of this meeting, the Engineer will also discuss the environmental plan sheet, and environmental commitments.

**3.03 Prepare Addenda.** Any necessary addenda will be issued to clarify and modify the project, as required, and based on questions or comments that may arise from potential contractors during the bidding process. Any necessary addenda will be reviewed with the Sponsor and FAA prior to being issued. The addenda will meet all design and construction standards, as required.

**3.04 Consult with Prospective Bidders.** During the bidding process, the Engineer shall be available to clarify bidding issues with contractors and suppliers and for consultation with the various entities associated with the project.

**3.05 Attend Bid Opening.** The Engineer shall attend the bid opening for the project, which will be conducted by the Sponsor.

**3.06 Review Bid Proposals.** Upon the opening of submitted bid proposals by the Sponsor, the Engineer shall review all the bid proposals submitted. A cost analysis of the bid prices will be completed and tabulated; the contractor's qualifications to perform the work will be included, including review of suspension and debarment rules on the www.Sam.gov website, verification of proposed DBE subcontractors, Buy American compliance analysis/review, and project funding review. Inclusion of bid guarantee, acknowledgement of addenda and licensure verification in Colorado shall be completed.

**3.07 Prepare Recommendation of Award.** The Engineer shall prepare a Recommendation of Award for the Sponsor to accept or reject the bids received with a summary of the items listed in Task 3.6. If rejection is recommended, the Engineer will supply an explanation for their recommendation and possible alternative actions the Sponsor can pursue to complete the project.

| TASK 3 DELIVERABLES                                     | TO FAA/STATE | TO SPONSOR |
|---|--------------|------------|
| 3.01 Required Bidding Documents                         | ✓            | ✓          |
| 3.02 Pre-Bid Meeting Agenda and Pre-Bid Meeting Minutes | ✓            | ✓          |
| 3.03 Addenda  | ✓            | ✓          |
| 3.06 Bid Tabulations                                    | ✓            | ✓          |
| 3.07 Recommendation of Award                            | ✓            | ✓          |

| TASK 3 MEETINGS/SITE VISITS          | LOCATION/ATTENDEES/DURATION  |
|--------------------------------------|--|
| 3.02 Prepare/Conduct Pre-Bid Meeting | <ul style="list-style-type: none"> <li>Wendover, Utah - One (1) Project Manager - Assume full day site visit (1 site visit) - Assume travel to/from Salt Lake City, Utah to Wendover, Utah with no overnight stay for Project Manager for each site visit</li> </ul> |
| 3.05 Attend Bid Opening              | <ul style="list-style-type: none"> <li>Wendover, Utah - One (1) Project Manager - Assume full day site visit (1 site visit) - Assume travel to/from Salt Lake City, Utah to Wendover, Utah with no overnight stay for Project Manager for each site visit</li> </ul> |

**EX Reimbursable Costs During Design and Bidding**

This section includes reimbursable items such as auto rental, mileage, lodging, per diem and other miscellaneous expenses incurred in order to complete **Part A – Basic Services**.

**PART B - SPECIAL SERVICES** consists of the construction administration phase, post-construction coordination phase (invoiced on a lump sum basis), on-site construction coordination phase and on-site construction survey phase (invoiced on a cost plus fixed fee basis).

#### **4.0 Construction Administration Phase**

**4.01 Prepare Construction Contract and Documents.** In agreement with the FAA, the Engineer shall prepare the Notice of Award, Notice to Proceed and Contract Agreements, including bonds and insurance documents, which will be updated to include all addenda items issued during bidding, for the Sponsor's approval and signatures. Approximately five copies will be submitted to the successful Contractor for their signatures.

The Engineer will ensure the construction contracts are in order, the bonds have been completed, and the Contractor has been provided with adequate copies of the Construction Plans, Specifications and Contract Documents, which will be updated to include all addenda items issued during bidding.

**4.02 Provide Project Coordination.** The Engineer shall provide project management and coordination services to ensure the completion of the design. These duties include:

- Time the Engineer spends planning, organizing, securing and scheduling resources, and providing instruction to staff to meet project objectives as defined in the approved scope of work.
- Additional items to be accomplished include compiling and sending additional information requested from the office to related parties, maintaining project files as necessary and other items necessary in day-to-day project coordination.
- The Project Manager will review progress reports weekly and monthly.
- Assist with change orders and supplemental agreements as necessary. All change orders and supplemental agreements will be coordinated with the Sponsor and FAA staff prior to execution. All change orders and supplemental agreements will be prepared in accordance with the FAA Standard Operating Procedure (SOP) 7.0, Airport Improvement Program Construction Project Change Orders.
- Clerical staff shall prepare the quantity sheets, testing sheets, construction report format, etc.
- Office engineering staff, CAD personnel and clerical staff shall be required to assist the Field Personnel as necessary during construction. Specific tasks to be accomplished include providing secondary engineering opinions on issues arising during construction, maintaining project files as necessary and various other tasks necessary in the day-to-day operations.
- The Engineer will prepare and submit monthly invoicing.

**4.03 Prepare/Conduct Pre-Construction Meeting.** The Engineer will conduct a pre-construction meeting to review FAA requirements as required per FAA AC 150/5370-12, Quality Management for Federally Funded Airport Construction Projects, prior to the commencement of construction. As a part of this meeting, the Engineer will also discuss the environmental plan sheet, surveyed areas, and environmental commitments. The meeting will be held at the airport and will include the Sponsor, FAA (if possible), Contractor, subcontractors and airport tenants affected by the project.

**4.04 Review Contractor's Safety Plan Compliance Document.** This task includes the review and to comment on the Contractor's Safety Plan Compliance Document (SPCD) as required per FAA AC 150/5370-2 (Current Edition), Operational Safety on Airports During Construction. The Engineer shall review to ensure that all applicable construction safety items are addressed and meet the requirements of AC 150/5370-2 (Current Edition) and the Contract's Construction Safety and Phasing Plan (CSPP). The intent of the SPCD is to detail how the Contractor will comply with the CSPP. Following award of the project to the successful Contractor and prior to the issuance of the Notice to Proceed, the Engineer will review the SPCD, provide comments and ultimately approval of the document. It is anticipated that the document will require at least one re-submittal by the Contractor to address any missing information. The SPCD will

be submitted to the Engineer for approval at least 14 days prior to the issuance of the Notice to Proceed to the Contractor.

**4.05 Perform Site Visits During Construction.** The Project Manager shall make on-site visits, as required, throughout the duration of the project. As of now, it is estimated that the Project Manager will be required to make a minimum of one site visits to the project.

| TASK 4 DELIVERABLES   | TO FAA/STATE | TO SPONSOR |
|---|--------------|------------|
| 4.01 Issue Construction Plans, Specifications, and Contract Documents | ✓            | ✓          |
| 4.02 Change Orders/Supplemental Agreements                            | ✓            | ✓          |
| 4.02 Monthly Invoice and Monthly PSR                                  |              | ✓          |
| 4.02 Pay Request Review Documentation                                 | ✓            | ✓          |
| 4.02 Weekly/Monthly Reports   | ✓            | ✓          |
| 4.03 Pre-Construction Agenda and Meeting Minutes                      | ✓            | ✓          |
| 4.04 Review and Approval of SPCD and Final SPCD                       | ✓            | ✓          |

| TASK 4 MEETINGS/SITE VISITS                  | LOCATION/ATTENDEES/DURATION  |
|--|--|
| 4.03 Conduct Pre-Construction Meeting        | <ul style="list-style-type: none"> <li>Wendover, Utah - One (1) Project Manager - Assume full day site visit (1 site visit) - Assume travel to/from Salt Lake City, Utah to Wendover, Utah with no overnight stay</li> </ul> |
| 4.05 Perform Site Visits During Construction | <ul style="list-style-type: none"> <li>Wendover, Utah - One (1) Project Manager - Assume full day site visit (1 site visit) - Assume travel to/from Salt Lake City, Utah to Wendover, Utah with no overnight stay</li> </ul> |

#### **5.0 Post Construction Coordination Phase**

**5.01 Prepare Clean-up Item List.** The Engineer will ensure the Contractor has removed all construction equipment and construction debris from the airport, that all access points have been re-secured (fences repaired, gates closed and locked, keys returned, etc.) and the site is clean.

**5.02 Conduct Final Inspection.** The Engineer, along with the Sponsor and FAA (if available), shall conduct the final inspection. The quality assurance testing summary report must be accepted by the FAA prior to final inspection.

**5.03 Prepare Engineering Record Drawings.** The Engineer will prepare the record drawings indicating modifications made during construction. An electronic and paper copy of the record drawings will be sent to the FAA.

**5.04 Prepare Final Construction Report.** The Engineer will prepare the final construction report to meet the applicable FAA closeout checklist requirements.

**5.05 Prepare DBE Uniform Report.** The Engineer will prepare the Uniform Report of DBE Awards or Commitments and Payments (DBE Uniform Report) for the Sponsor to submit to the FAA.

**5.06 Summarize Project Costs.** The Engineer will be required to obtain all administrative expenses, engineering fees and costs, testing costs and construction costs associated with the project and assemble a total project summary. The summary will be analyzed with the associated project funding.

| TASK 5 DELIVERABLES            | TO FAA/STATE | TO SPONSOR |
|--------------------------------|--------------|------------|
| 5.01 Clean-up List             | ✓            | ✓          |
| 5.02 Punchlists                | ✓            | ✓          |
| 5.03 Record Drawings           | ✓            | ✓          |
| 5.04 Final Construction Report | ✓            | ✓          |
| 5.05 DBE Uniform Report        | ✓            | ✓          |
| 5.06 Project Cost Summary      | ✓            | ✓          |

| TASK 5 MEETINGS/SITE VISITS   | LOCATION/ATTENDEES/DURATION  |
|-------------------------------|--|
| 5.02 Conduct Final Inspection | <ul style="list-style-type: none"> <li>Wendover, Utah - One (1) Project Manager - Assume full day site visit (1 site visit) - Assume travel to/from Salt Lake City, Utah to Wendover, Utah with no overnight stay</li> </ul> |

**6.0 On-Site Construction Coordination Phase**

This phase will consist of providing one full time Construction Manager. It shall be the responsibility of the Construction Manager to facilitate sufficient on-site construction coordination to ensure that the project is completed according to good construction practice and the Project Manager's direction. It is estimated that it will take 18 calendar days to complete construction of the project.

**6.01 Provide Resident Engineering.** The Construction Manager will work approximately 12 hours per day. It is assumed that the Construction Manager will be able to complete all daily project documentation in the course of their shift and that total inspection on-site time is anticipated to be 18 calendar days. It is assumed that the Contractor will work seven (7) days a week during the construction period resulting in 18 working days. The following tasks will be performed during the course of a typical day's shift during construction:

The following tasks will be performed during the course of a typical day's shift during construction:

- Review construction submittals, including shop drawings and materials proposed for use on the project, submitted by the Contractor for conformance with the project's Contract Documents. Submittals will either be approved, conditionally approved, or rejected and returned to the Contractor for their records and/or to make changes or revisions. The Engineer will prepare and maintain a submittal register to log the submittals received. The submittal register will include information on the submitted items including date received, date returned, and action taken, and will be made available to the Sponsor and Contractor upon request.
- Review copies of the survey data and other construction tasks for general compliance with the construction documents.
- Coordinate, review and provide a response to construction and general project Request for Information (RFIs).
- Prepare and process change orders.
- Conduct employee interviews and review Contractor's and subcontractor's weekly payroll records as required by the FAA. As part of this effort, all payrolls must be reviewed and logged when

received. A log identifying current status of reviews and any action taken to correct noted discrepancies, will be provided for Sponsor review at time of Request for Reimbursement processing, as appropriate.

- Review and coordinate revisions by the Contractor for quality control and quality assurance testing firm submittals performed as part of the quality assurance testing required by the project specifications.
- Maintain record of the progress of construction and review the quantity records with the Contractor on a periodic basis.
- Prepare the periodic cost estimates and review the quantities with the Contractor. The Engineer, Sponsor and Contractor will resolve discrepancies or disagreements with the Contractor's records. The periodic cost estimate will also include all other costs associated with the project (administrative costs, engineering, any miscellaneous costs). After compiling all costs, the Engineer will then submit the periodic cost estimate to the Sponsor for payment.
- Maintain daily logs of the construction activities for the duration of time on site which includes the Construction Project Daily Inspection Checklist as required by the CSPP and SPCD. Verify that restricted areas, roads, staging areas, stockpiles, borrow/waste areas, etc. are all remaining within the areas cleared under environmental documentation.
- Prepare a weekly status report using the FAA's standard form. The report will be submitted to the Sponsor, the FAA and the office following the week of actual construction activities performed. Verify each week that restricted areas, roads, staging areas, etc. are all remaining within the areas cleared under environmental documentation.
- Review payments to subcontractors and ensure timely payment of retainage to subcontractors when payment to the Contractor is made as required by the DBE Program.

| TASK 6 DELIVERABLES               | TO FAA/STATE | TO SPONSOR |
|-----------------------------------|--------------|------------|
| 6.01 Change Orders                |              | ✓          |
| 6.01 Coordinate RFIs              |              | ✓          |
| 6.01 Coordinate Submittal Reviews |              | ✓          |
| 6.01 Payroll Reviews              | ✓            | ✓          |
| 6.01 Periodic Cost Estimates      | ✓            | ✓          |
| 6.01 Weekly Reports               | ✓            | ✓          |

**Assumptions**

The scope of services described previously is based on the following assumptions of responsibilities by the Engineer and Sponsor.

1. It is anticipated there will be a minimum number of trips and site visits to the airport to facilitate the completion of the various phases listed in this scope. Each trip is anticipated to be a one-day trip and the number of trips for each phase are included at the end of each phase above.
2. The Sponsor will provide existing mapping data including as-builts available for the project areas, aerial orthoimagery, subsurface conditions information such as prior geotechnical investigations in the project area and other available information in the possession of the Sponsor.
3. The Engineer will provide additional base mapping of existing topography, planimetric features and underground utilities needed in the design phase of the project.

4. The Sponsor will furnish escorts as needed for the Engineer to conduct field work.
5. The Sponsor will coordinate with tenants as required to facilitate field evaluations and construction.
6. All engineering work will be performed using accepted engineering principles and practices and provide quality products that meet or exceed industry standards. Dimensional criteria will be in accordance with FAA AC 150/5300-13 (Current Edition), Airport Design and related circulars. Construction specifications will be in accordance with FAA AC 150/5370-10 (Current Edition), Standard Specifications for Construction of Airports and the Northwest Mountain Region's Regional Updates for Specifying Construction of Airports and related circulars. Project planning, design and construction will further conform to all applicable standards, including all applicable current FAA Advisory Circulars and Orders required for use in AIP-funded projects and other national, state, or local regulations and standards, as identified and relevant to an airfield design and construction project.
7. The Engineer will utilize the following plan standards for the project:
  - Plans will be prepared using the Engineer's standards, unless the Sponsor provides its own standards upon Notice to Proceed.
  - Plan coordinates will be based on horizontal datum NAD 83/2011 State Plane Coordinates derived from the existing control network.
  - All plans will be stamped and signed by a registered Colorado Professional Engineer, or Professional Land Surveyor, as required.
  - The guidance included in FAA Memorandum, FAA Review of Construction Plans and Specifications for AIP Funded Projects, will be reviewed, incorporated and will supplement the Engineer's standards.
8. The Engineer will utilize the following assumptions when preparing the project manual for bidding and construction of the project:
  - The project manual Contract Documents will be developed jointly by the Sponsor and the Engineer.
  - The Engineer is responsible for developing the contents of the document and including the Front-End documents which will be supplied by the Sponsor.
  - FAA General Provisions and required contract language will be used.
9. The Engineer must maintain records of design analyses and calculations consistent with typical industry standards, as required by the FAA, for a period of three years after the project is closed by the FAA.
10. Because the Engineer has no control over the cost of construction-related labor, materials, or equipment, the Engineer's opinions of probable construction costs will be made on the basis of experience and qualifications as a practitioner of his/her profession. The Engineer does not guarantee that proposals for construction, construction bids, or actual project construction costs will not vary from Engineer's estimates of construction cost.
11. It is assumed that a project audit will not be performed. If a project audit occurs, the Engineer is prepared to assist the Sponsor in gathering and preparing the required materials for the audit. This work will be negotiated with the Sponsor, should the need occur, and payment will be on a time and material basis.

**Additional Services**

The following items are not included under this agreement but will be considered as extra work:

- Redesign for the Sponsor's convenience or due to changed conditions after previous alternate direction and/or approval.
- Submittals or deliverables in addition to those listed herein.
- Serving as an expert witness for the Owner in any litigation, surety claim, contractor bond activation, or other proceeding involving the project.
- Additional or extended services during construction made necessary by extension of contract time, non-concurrent work, or changes in the work.
- Legal, surety, or insurance support, coordination, and representation.

Extra Work will be as directed by the Sponsor in writing for an additional fee as agreed upon by the Sponsor and the Engineer.



**FEE BREAKDOWN**

| LABOR CATEGORY                                 | Total Hours                | Billing Rate | Total Cost       |
|--|----------------------------|--------------|------------------|
| <b>1.0 Preliminary Design Phase (Lump Sum)</b> |                            |              |                  |
| Principal                                      | 2 hrs. x \$ 275.00 /hr =   | \$ 550.00    |                  |
| Associate Engineer II                          | 4 hrs. x \$ 230.00 /hr =   | \$ 920.00    |                  |
| Quality Control Manager                        | 4 hrs. x \$ 230.00 /hr =   | \$ 920.00    |                  |
| Engineer III                                   | 6 hrs. x \$ 160.00 /hr =   | \$ 960.00    |                  |
| Associate Engineer II                          | 4 hrs. x \$ 125.00 /hr =   | \$ 500.00    |                  |
| Planner III                                    | 8 hrs. x \$ 165.00 /hr =   | \$ 1,320.00  |                  |
| CADD Tech II                                   | 0 hrs. x \$ 10.00 /hr =    | \$ -         |                  |
| CADD Tech I                                    | 0 hrs. x \$ 95.00 /hr =    | \$ 380.00    |                  |
| Project Coordinator II                         | 4 hrs. x \$ 125.00 /hr =   | \$ 500.00    |                  |
| Support III                                    | 4 hrs. x \$ 110.00 /hr =   | \$ 440.00    |                  |
|  | 58 hrs.                    | SUBTOTAL \$  | 10,080.00        |
| <b>Reimbursables</b>                           |                            |              |                  |
| Auto Rental                                    | 0 Day x \$ 85.00 /Day =    | \$ -         |                  |
| Mileage  | 0 Mi. x \$ 0.56 /Mi =      | \$ -         |                  |
| Lodging + Tax & Fees                           | 0 Day x \$ 145.00 /Day =   | \$ -         |                  |
| Per Diem                                       | 0 Day x \$ 64.00 /Day =    | \$ -         |                  |
| Travel & Airline Costs                         | 0 Trip x \$ 500.00 /Trip = | \$ -         |                  |
|  |                            | SUBTOTAL \$  | -                |
| <b>TOTALS</b>                                  |                            |              | <b>10,080.00</b> |

| TASK   | Principal | Project Manager III | Quality Control Manager | Engineer III | Associate Engineer II | Planner III | Designer II | CADD Tech II | CADD Tech I | Project Coordinator II | Support III | Phase Item Costs |
|--|-----------|---------------------|-------------------------|--------------|-----------------------|-------------|-------------|--------------|-------------|------------------------|-------------|------------------|
| 1.0 Preliminary Design Phase (Lump Sum)                      |           |                     |                         |              |                       |             |             |              |             |                        |             |                  |
| 1.01 Coordinate and Attend Meetings with the Sponsor and FAA | 2         |                     |                         | 2            |                       |             |             |              |             |                        |             | \$ 550.00        |
| 1.02 Prepare Construction Safety and Phasing Plan (CSPP)     |           | 2                   |                         |              |                       |             |             |              |             |                        |             | \$ 920.00        |
| 1.03 Provide Project Coordination                            |           | 16                  |                         | 4            |                       |             |             |              |             |                        |             | \$ 3,880.00      |
| 1.04 Review Existing Documents                               |           |                     | 4                       |              |                       |             |             |              |             |                        |             | \$ 960.00        |
| 1.05 Prepare Federal Grant Application                       |           |                     |                         |              | 4                     |             |             |              |             |                        |             | \$ 500.00        |
| 1.06 Prepare Environmental Documentation                     |           |                     |                         |              |                       | 4           |             |              |             |                        |             | \$ 1,320.00      |
|  |           |                     |                         |              |                       |             |             |              |             |                        |             | \$ -             |
|  |           |                     |                         |              |                       |             |             |              |             |                        |             | \$ 380.00        |
|  |           |                     |                         |              |                       |             |             |              |             |                        |             | \$ 500.00        |
|  |           |                     |                         |              |                       |             |             |              |             |                        |             | \$ 440.00        |
|  |           |                     |                         |              |                       |             |             |              |             |                        |             | \$ 10,080.00     |
| <b>TOTALS</b>  | <b>2</b>  | <b>22</b>           | <b>4</b>                | <b>6</b>     | <b>4</b>              | <b>8</b>    | <b>0</b>    | <b>0</b>     | <b>4</b>    | <b>4</b>               | <b>4</b>    | <b>\$</b>        |

| LABOR CATEGORY                     | Total Hours                | Billing Rate | Total Cost       |
|------------------------------------|----------------------------|--------------|------------------|
| <b>2.0 Design Phase (Lump Sum)</b> |                            |              |                  |
| Principal                          | 0 hrs. x \$ 275.00 /hr =   | \$ -         |                  |
| Project Manager III                | 63 hrs. x \$ 205.00 /hr =  | \$ 12,915.00 |                  |
| Quality Control Manager            | 8 hrs. x \$ 230.00 /hr =   | \$ 1,840.00  |                  |
| Engineer III                       | 48 hrs. x \$ 125.00 /hr =  | \$ 6,000.00  |                  |
| Associate Engineer II              | 36 hrs. x \$ 115.00 /hr =  | \$ 4,140.00  |                  |
| Designer II                        | 0 hrs. x \$ 165.00 /hr =   | \$ -         |                  |
| Planner III                        | 0 hrs. x \$ 165.00 /hr =   | \$ -         |                  |
| CADD Tech II                       | 14 hrs. x \$ 35.00 /hr =   | \$ 490.00    |                  |
| CADD Tech I                        | 0 hrs. x \$ 35.00 /hr =    | \$ -         |                  |
| Support III                        | 4 hrs. x \$ 110.00 /hr =   | \$ 440.00    |                  |
|                                    | 105 hrs.                   | SUBTOTAL \$  | 25,785.00        |
| <b>Reimbursables</b>               |                            |              |                  |
| Auto Rental                        | 0 Day x \$ 85.00 /Day =    | \$ -         |                  |
| Mileage                            | 0 Mi. x \$ 0.56 /Mi =      | \$ -         |                  |
| Lodging + Tax & Fees               | 0 Day x \$ 145.00 /Day =   | \$ -         |                  |
| Per Diem                           | 0 Day x \$ 64.00 /Day =    | \$ -         |                  |
| Travel & Airline Costs             | 0 Trip x \$ 500.00 /Trip = | \$ -         |                  |
|                                    |                            | SUBTOTAL \$  | -                |
| <b>TOTALS</b>                      |                            |              | <b>25,785.00</b> |

| TASK   | Principal | Project Manager III | Quality Control Manager | Engineer III | Associate Engineer II | Planner III | Designer II | CADD Tech II | CADD Tech I | Project Coordinator II | Support III | Phase Item Costs |
|--|-----------|---------------------|-------------------------|--------------|-----------------------|-------------|-------------|--------------|-------------|------------------------|-------------|------------------|
| 2.0 Design Phase (Lump Sum)                              |           |                     |                         |              |                       |             |             |              |             |                        |             |                  |
| 2.01 Prepare Preliminary Contract Documents              |           | 4                   |                         | 8            | 12                    |             |             |              |             |                        |             | \$ 7,160.00      |
| 2.02 Prepare Construction Safety and Phasing Plan (CSPP) |           | 8                   |                         | 12           | 16                    |             |             | 12           |             |                        |             | \$ 6,700.00      |
| 2.03 Prepare Preliminary Construction Plans              |           | 1                   |                         |              |                       |             |             |              |             |                        |             | \$ 840.00        |
| 2.04 Prepare Preliminary Construction Plans              |           | 1                   |                         |              |                       |             |             |              |             |                        |             | \$ 840.00        |
| 2.05 Prepare Preliminary Construction Plans              |           | 2                   |                         |              |                       |             |             |              |             |                        |             | \$ 1,680.00      |
| 2.06 Prepare Preliminary Construction Plans              |           | 2                   |                         |              |                       |             |             |              |             |                        |             | \$ 1,680.00      |
| 2.07 Prepare Preliminary Construction Plans              |           | 2                   |                         |              |                       |             |             |              |             |                        |             | \$ 1,680.00      |
| 2.08 Prepare Preliminary Construction Plans              |           | 2                   |                         |              |                       |             |             |              |             |                        |             | \$ 1,680.00      |
| 2.09 Prepare Preliminary Construction Plans              |           | 2                   |                         |              |                       |             |             |              |             |                        |             | \$ 1,680.00      |
| 2.10 Prepare Preliminary Construction Plans              |           | 2                   |                         |              |                       |             |             |              |             |                        |             | \$ 1,680.00      |
| 2.11 Prepare Preliminary Construction Plans              |           | 2                   |                         |              |                       |             |             |              |             |                        |             | \$ 1,680.00      |
| 2.12 Prepare Preliminary Construction Plans              |           | 2                   |                         |              |                       |             |             |              |             |                        |             | \$ 1,680.00      |
|  |           |                     |                         |              |                       |             |             |              |             |                        |             | \$ 48,585.00     |
| <b>TOTALS</b>  | <b>0</b>  | <b>61</b>           | <b>8</b>                | <b>68</b>    | <b>48</b>             | <b>36</b>   | <b>0</b>    | <b>0</b>     | <b>324</b>  | <b>8</b>               | <b>4</b>    | <b>\$</b>        |

| Labor Category                      | Total Hours                   | Billing Rate        | Total Cost          |
|-------------------------------------|-------------------------------|---------------------|---------------------|
| <b>3.0 Bidding Phase (Lump Sum)</b> |                               |                     |                     |
| Principal                           | 0 hrs. x \$ 275.00 /hr = \$   |                     |                     |
| Project Manager III                 | 8 hrs. x \$ 275.00 /hr = \$   |                     | 2,200.00            |
| Quality Control Manager             | 8 hrs. x \$ 275.00 /hr = \$   |                     | 2,200.00            |
| Associate Engineer II               | 4 hrs. x \$ 160.00 /hr = \$   |                     | 640.00              |
| Engineer III                        | 4 hrs. x \$ 125.00 /hr = \$   |                     | 500.00              |
| Associate Engineer II               | 0 hrs. x \$ 115.00 /hr = \$   |                     |                     |
| Designer II                         | 0 hrs. x \$ 165.00 /hr = \$   |                     |                     |
| CADD Tech II                        | 8 hrs. x \$ 100.00 /hr = \$   |                     | 800.00              |
| Project Coordinator II              | 0 hrs. x \$ 125.00 /hr = \$   |                     |                     |
| Support III                         | 0 hrs. x \$ 110.00 /hr = \$   |                     |                     |
| <b>SUBTOTAL</b>                     | <b>76 hrs.</b>                | <b>\$ 13,120.00</b> | <b>\$ 13,120.00</b> |
| <b>Reimbursables</b>                |                               |                     |                     |
| Auto Rental                         | 2 Day x \$ 85.00 /Day = \$    |                     | 170.00              |
| Mileage                             | 500 Mi x \$ 0.56 /Mile = \$   |                     | 280.00              |
| Lodging + Tax & Fees                | 0 Day x \$ 145.00 /Day = \$   |                     |                     |
| Per Diem                            | 0 Day x \$ 64.00 /Day = \$    |                     |                     |
| Travel & Airline Costs              | 0 Trip x \$ 500.00 /Trip = \$ |                     |                     |
| <b>SUBTOTAL</b>                     |                               |                     | <b>450.00</b>       |
| <b>TOTALS</b>                       | <b>0</b>                      | <b>\$ 0</b>         | <b>\$ 13,570.00</b> |

| TASK                                  | LABOR CATEGORY |                     |                         |              |                       |             |              | Phase Item Costs   |
|---------------------------------------|----------------|---------------------|-------------------------|--------------|-----------------------|-------------|--------------|--------------------|
|                                       | Principal      | Project Manager III | Quality Control Manager | Engineer III | Associate Engineer II | Designer II | CADD Tech II |                    |
| 3.0 Bidding Phase (Lump Sum)          |                |                     |                         |              |                       |             |              |                    |
| 3.01 Provide Bid Assistance           |                | 8                   |                         | 4            |                       |             |              | 5 2,200.00         |
| 3.02 Prepare Contract Pre Bid Meeting |                | 8                   |                         | 8            |                       |             |              | 5 2,200.00         |
| 3.03 Prepare Bid                      |                | 4                   |                         | 4            |                       |             |              | 5 1,400.00         |
| 3.04 Consult with Prospective Bidders |                | 8                   |                         | 4            |                       |             |              | 5 2,200.00         |
| 3.05 Attend Bid Opening               |                | 4                   |                         | 2            |                       |             |              | 5 1,100.00         |
| 3.06 Review Bid Proposals             |                | 4                   |                         | 2            |                       |             |              | 5 1,100.00         |
| 3.07 Prepare Recommendation of Award  |                |                     |                         |              |                       |             |              | 5 320.00           |
| <b>TOTALS</b>                         | <b>0</b>       | <b>36</b>           | <b>0</b>                | <b>28</b>    | <b>4</b>              | <b>0</b>    | <b>0</b>     | <b>5 13,570.00</b> |

| Labor Category  | Total Hours                   | Billing Rate        | Total Cost          |
|---|-------------------------------|---------------------|---------------------|
| <b>4.0 Construction Administration Phase (Lump Sum)</b> |                               |                     |                     |
| Principal   | 0 hrs. x \$ 275.00 /hr = \$   |                     |                     |
| Project Manager III                                     | 34 hrs. x \$ 275.00 /hr = \$  |                     | 9,350.00            |
| Quality Control Manager                                 | 0 hrs. x \$ 275.00 /hr = \$   |                     |                     |
| Associate Engineer II                                   | 4 hrs. x \$ 125.00 /hr = \$   |                     | 500.00              |
| Construction Manager I                                  | 8 hrs. x \$ 125.00 /hr = \$   |                     | 1,000.00            |
| Designer II   | 0 hrs. x \$ 165.00 /hr = \$   |                     |                     |
| CADD Tech II  | 0 hrs. x \$ 110.00 /hr = \$   |                     |                     |
| Project Coordinator II                                  | 0 hrs. x \$ 125.00 /hr = \$   |                     |                     |
| Support III   | 4 hrs. x \$ 110.00 /hr = \$   |                     | 440.00              |
| <b>SUBTOTAL</b>   | <b>66 hrs.</b>                | <b>\$ 11,530.00</b> | <b>\$ 11,530.00</b> |
| <b>Reimbursables</b>                                    |                               |                     |                     |
| Auto Rental   | 2 Day x \$ 85.00 /Day = \$    |                     | 170.00              |
| Mileage   | 500 Mi x \$ 0.56 /Mile = \$   |                     | 280.00              |
| Lodging + Tax & Fees                                    | 0 Day x \$ 145.00 /Day = \$   |                     |                     |
| Per Diem  | 0 Day x \$ 64.00 /Day = \$    |                     |                     |
| Travel & Airline Costs                                  | 0 Trip x \$ 500.00 /Trip = \$ |                     |                     |
| <b>SUBTOTAL</b>   |                               |                     | <b>450.00</b>       |
| <b>TOTALS</b>   | <b>0</b>                      | <b>\$ 0</b>         | <b>\$ 11,980.00</b> |

| TASK   | LABOR CATEGORY |                     |                         |              |                       |             |              | Phase Item Costs   |
|--|----------------|---------------------|-------------------------|--------------|-----------------------|-------------|--------------|--------------------|
|  | Principal      | Project Manager III | Quality Control Manager | Engineer III | Associate Engineer II | Designer II | CADD Tech II |                    |
| 4.0 Construction Administration Phase (Lump Sum) |                |                     |                         |              |                       |             |              |                    |
| 4.01 Prepare Construction Contract and Documents |                | 1                   |                         | 4            |                       |             |              | 5 1,525.00         |
| 4.02 Provide Project Coordination                |                | 16                  |                         | 8            |                       |             |              | 5 3,720.00         |
| 4.03 Prepare Contract Pre-Construction Meeting   |                | 8                   |                         | 8            |                       |             |              | 5 2,420.00         |
| 4.04 Prepare Bid                                 |                | 8                   |                         | 4            |                       |             |              | 5 2,200.00         |
| 4.05 Perform Site Visits During Construction     |                |                     |                         |              |                       |             |              | 5 2,200.00         |
| <b>TOTALS</b>                                    | <b>0</b>       | <b>34</b>           | <b>0</b>                | <b>14</b>    | <b>4</b>              | <b>0</b>    | <b>0</b>     | <b>5 11,980.00</b> |

| Labor Category   | Total Hours                   | Billing Rate        | Total Cost          |
|--|-------------------------------|---------------------|---------------------|
| <b>5.0 Post Construction Coordination Phase (Lump Sum)</b> |                               |                     |                     |
| Principal  | 0 hrs. x \$ 275.00 /hr = \$   |                     |                     |
| Project Manager III  | 2 hrs. x \$ 275.00 /hr = \$   |                     | 550.00              |
| Quality Control Manager                                    | 0 hrs. x \$ 275.00 /hr = \$   |                     |                     |
| Construction Manager I                                     | 8 hrs. x \$ 125.00 /hr = \$   |                     | 1,000.00            |
| Associate Engineer II                                      | 4 hrs. x \$ 125.00 /hr = \$   |                     | 500.00              |
| Designer II  | 0 hrs. x \$ 165.00 /hr = \$   |                     |                     |
| CADD Tech II   | 0 hrs. x \$ 110.00 /hr = \$   |                     |                     |
| Project Coordinator II                                     | 8 hrs. x \$ 95.00 /hr = \$    |                     | 760.00              |
| Support III  | 0 hrs. x \$ 125.00 /hr = \$   |                     |                     |
| <b>SUBTOTAL</b>  | <b>14 hrs.</b>                | <b>\$ 14,365.00</b> | <b>\$ 14,365.00</b> |
| <b>Reimbursables</b>                                       |                               |                     |                     |
| Auto Rental  | 1 Day x \$ 85.00 /Day = \$    |                     | 85.00               |
| Mileage  | 250 Mi x \$ 0.56 /Mile = \$   |                     | 140.00              |
| Lodging + Tax & Fees                                       | 0 Day x \$ 145.00 /Day = \$   |                     |                     |
| Per Diem   | 0 Day x \$ 64.00 /Day = \$    |                     |                     |
| Travel & Airline Costs                                     | 0 Trip x \$ 500.00 /Trip = \$ |                     |                     |
| <b>SUBTOTAL</b>  |                               |                     | <b>225.00</b>       |
| <b>TOTALS</b>  | <b>0</b>                      | <b>\$ 0</b>         | <b>\$ 14,590.00</b> |

| TASK  | LABOR CATEGORY |                     |                         |                        |                       |             |              | Phase Item Costs   |
|---|----------------|---------------------|-------------------------|------------------------|-----------------------|-------------|--------------|--------------------|
|   | Principal      | Project Manager III | Quality Control Manager | Construction Manager I | Associate Engineer II | Designer II | CADD Tech II |                    |
| 5.0 Post Construction Coordination Phase (Lump Sum) |                |                     |                         |                        |                       |             |              |                    |
| 5.01 Prepare Close-up Item List                     |                | 2                   |                         | 8                      |                       |             |              | 5 910.00           |
| 5.02 Conduct Final Inspection                       |                | 8                   |                         | 8                      |                       |             |              | 5 2,640.00         |
| 5.03 Prepare Engineering Record Drawings            |                | 2                   |                         | 4                      |                       |             |              | 5 1,670.00         |
| 5.04 Prepare Final Construction Report              |                | 8                   |                         | 40                     |                       |             |              | 5 6,640.00         |
| 5.05 Prepare DBE Uniform Report                     |                | 1                   |                         | 4                      |                       |             |              | 5 1,350.00         |
| 5.06 Summarize Project Costs                        |                | 4                   |                         | 4                      |                       |             |              | 5 1,100.00         |
| <b>TOTALS</b>                                       | <b>0</b>       | <b>25</b>           | <b>0</b>                | <b>56</b>              | <b>4</b>              | <b>0</b>    | <b>0</b>     | <b>5 14,365.00</b> |

