Ivins City Staff Report
City Council Meeting 12/20/18

Agenda Item: Discuss and consider approval of selection of consultant and expenditure for Street Gap Fill Projects, 200 West Sewer Diversion, and Lower Tuacahn Wash Line Improvements

Submitted by: Thomas J. Jorgensen, P.E., Assistant Public Works Director

Recommended City Council Action:
Approve selection and expenditure of $77,300 for engineering services for Street Gap Fill projects, 200 West Sewer Diversion, and Lower Tuacahn Wash Line Improvements, plus an additional $10,000 for contingency for a total of $87,300

BACKGROUND:

Street Gap Fill Projects:
Ivins City intends to have two locations in the City receive gap fill improvements, 600 West and 200 East. The 600 West location extends from approximately Center Street to 275 South. The 200 East location extends from approximately 300 South to 400 South. The 200 East location currently has half width street improvements installed, and the intent of the City is that the remaining full width cross-section be constructed (right of way permitting). The 600 West location has an existing gravel/dirt surface. The intent of the City is to install a temporary chip seal surface that will be replaced with a full width cross-section when adjacent properties develop.

200 West Sewer Diversion Project:
In 2016, a Sewer Master Plan was prepared by Bowen Collins and Associates. The intent of this master plan was to evaluate existing sewer infrastructure and identify existing and future deficiencies in the collection system. This master plan identified and recommended some short-term improvements to the system.

The collection system model results indicated that as flows increase there will end up being a string of pipe deficiencies down the primary corridor of the collection system. The primary corridor of the system passes through the heart of the City. After evaluating multiple options, the Master Plan (project S-3) recommended that instead of upsizing the main trunk line through town that a diversion pipeline would be installed to divert sewer flows away from these future deficient sections of pipe. The location chosen for the diversion was 200 West, resulting in a new 10" pipeline from 400 South to Highway 91 (approximately 2,500 feet).

Lower Tuacahn Wash Line Improvements Project
Another project identified in the Sewer Master Plan was the Tuacahn Wash Access Improvements Project (project S-1A). Over 95% of sewer flow from Ivins City flows through a trunk line located in the Tuacahn Wash from Pioneer Parkway, in Santa Clara, down to Snow Canyon High School. This line is susceptible to inflow during flood events and needs maintenance-related improvements. The following short-term improvements were recommended:

- Construct a 12' access road along the wash for maintenance crews to access manholes
- Raise/repair manholes that have been damaged from flooding or that are susceptible to inflow.
- Camera the line and repair any damaged sections of pipe which may be susceptible to inflow or leakage.

Staff has submitted a request for proposals (RFP) for engineering services to several engineering firms to receive quotes to prepare a design for these three projects. Additional details are identified in the attached RFP.

FINDINGS AND ANALYSIS:
We received four proposals where the costs are summarized below:

Consultant (total score)	*200 West Sewer Diversion - Engineering*	*Lower Tuacahn Wash Sewer Improvements - Engineering*	*Street Gap Fill Projects - Engineering*	*Total*	*Cost / Other Criteria Scores*
Alpha Engineering (116)	$ 24,061.00	$ 32,601.00	$ 40,274.00	$ 96,936.00	28 / 88
Civil Science (136)	$ 18,060.00	$ 22,510.00	$ 26,231.00	$ 66,801.00	50 / 86
Rosenberg Associates (135)	$ 41,000.00		$ 37,500.00	$ 78,500.00	42 / 93
Sunrise Engineering (141)	$ 24,800.00	$ 24,800.00	$ 27,700.00	$ 77,300.00	43 / 98

The various proposals were scored based on several factors including qualifications, design approach, past performance, and scope of work. The maximum score possible from those criteria was 100 points. Once the proposals were scored using the above criteria, design costs were evaluated as shown in the table above, with a maximum score of 50 points possible. Staff has evaluated the proposals and determined that Sunrise Engineering best met those criteria above as well as reasonable pricing. Staff recommends selection of Sunrise and requests a total expenditure of $77,300, which includes a contingency of $10,000 to help account for possible unforeseen expenditures during the design phases.

SUPPORT MATERIALS:
- Request for Proposals
- Sunrise Engineering Proposal

FINANCIAL IMPACT:
The expenses have been budgeted.
Street Gap Fill Projects – GL 49-40-710: $31,700
200 West Sewer Diversion – GL 52-42-880: $27,800
Lower Tuacahn Wash Line Improvements – GL 52-42-880: $27,800

Respectfully Submitted:

Thomas J. Jorgensen, P.E., Assistant Public Works Director

Content Review:

Dale Coulam, City Manager

Ivins City
Request for Proposals for
Engineering Services
for design of
Gap Fill Projects 600 West and 200 East

Ivins City, Utah is soliciting letter proposals from qualified engineers to provide services as outlined in the **Scope of Services** section of this request.

I. Information:

This request for proposals (RFP) consists of two gap fill projects in the City. The City will hold a pre-RFP meeting to discuss the project on Tuesday, November 27th at 9:00 a.m. at the Ivins City Offices at 55 North Main Street, Ivins, UT 84738.

Although this RFP includes a suggested scope of work, the City is requesting if an item has been omitted or if the consultant feels an item would enhance or better the project, please include these items in the proposal. The City is requesting the consultant prepare a proposal letter for this work.

Finally, the City will likely award the engineering services for this contract in conjunction with the "200 West Sewer Diversion and Lower Tuacahn Wash Line Improvements" project to the same consultant to minimize coordination.

II. Background:

Ivins City intends to have two locations in the City receive gap fill improvements, 600 West and 200 East. The 600 West location extends from approximately Center Street to 275 South. The 200 East location extends from approximately 300 South to 400 South.

The 200 East location currently has half width street improvements installed, and the intent of the City is that the remaining full width cross-section be constructed (right of way permitting). This location will maintain the existing centerline and profile.

The 600 West location has an existing gravel surface. This location will need to have the centerline and profile engineered with coordination through City staff. The intent of the City is to install chip seal, temporary, surface that will be replaced with a full width cross-section when adjacent properties develop. The intersection at 600 West and Center Street is currently being redesigned and reconstructed. Coordination will need to take place to so that the centerline and alignment for this project will tie into the new intersection design.

The following information will be provided by the City:

- 2017 Aerial Photography by Pictometry, 3-inch pixels

- Typical Cross-Sections

III. Scope of Services:

The City has compiled an anticipated scope of work for this project, but we'd ask the consultant to add or delete items from this list as they deem appropriate.

A. Coordination Meetings (2 meetings – kickoff and 60% design)
B. Initial Data Gathering
    a. Review right-of-way boundaries.
    b. Survey and topo existing roadways.
    c. Identify applicable utility locations.
C. Geotechnical and Geological Investigation
    a. Procure geotechnical evaluation of the projects.
D. Prepare Design Drawings
    a. Provide 60% and 100% design sets for review by the City.
    b. Design centerline alignment and profile.
    c. Design storm drainage as it relates to the project
        i. Drainage channels for 600 West
        ii. New inlet at the intersection of 400 East and 400 South
    d. Provide other details if Ivins City standard details are not sufficient
E. Technical Specifications
    a. Provide 100% technical specifications for review by the City.
    b. Provide specifications if Ivins City standard specifications do not address the requirements to the contractor.
F. Preparation of the construction cost estimates.
G. Contract Documents
    a. Provide 100% contract documents for review by the City.
    b. Prepare final bid documents for the project, including final design drawings, technical specifications, and standard City bid documents and contract conditions.
H. Make revisions for final bid set as directed by City following the 100% review by the City.
I. City will coordinate all bidding services with limited follow-up from consultant for questions.
J. City will provide construction administration and inspection with the consultant providing construction engineering services limited to attendance of preconstruction meeting, construction staking, and minor follow up with questions or field changes.

IV. Project Schedule:

The city would like to proceed on construction of the project as soon as possible. Please indicate the quickest timeframe for which the consultant can solidly commit to provide the scope of services upon execution of a contract.

V. Contracting and Compensation for Services:

Ivins City intends to enter into a professional services contract with the successful engineer. The terms of the Ivins City standard contract are attached to this document. Compensation for the services rendered, is to be based upon a time-expended basis with an agreed maximum not to exceed value. The consultant must be willing to sign the attached engineering services contract.

VI. Proposal Letter Format and Content

The proposal shall be in a letter format with company letter head and shall consist of no more than three pages and shall identify the following information: commitment to a time frame for completion, breakdown on total estimated fees for each major task and subtask level of detail (should be presented in table form), and total proposed cost. Qualifications and experience are not necessary in the proposal, as this RFP is only being submitted to a short list of qualified firms.

VII Submittal Requirements

Submit letter proposal by email to Thomas Jorgensen, P.E., Assistant Public Works Director at tjorgensen@ivins.com by 3:00 p.m., Tuesday, December 11th, 2018.

Attachment A: Sample Engineering Services Contract

PROFESSIONAL SERVICES CONTRACT
FOR
PROFESSIONAL ENGINEERING SERVICES
FOR
(PROJECT)

1. **CONTRACTING PARTIES:** This contract is between the Ivins City, referred to as the CITY and,

   (CONSULTANT)

   referred to as CONSULTANT.

2. **REASON FOR CONTRACT:** The CITY does not have sufficient qualified staff to complete the work required in the suggested time frame and the CONSULTANT is professionally qualified and willing to assist the CITY with Professional Engineering services as further described in Attachment B.

3. **PROJECT/CONTRACT PERIOD:** The project/contract will terminate (DATE), unless otherwise extended or canceled in accordance with the terms and conditions of this contract.

4. **CONTRACT COSTS:** The CONSULTANT will be paid a maximum of (DOLLARS) for costs authorized by this Contract as further described in Attachment C.

5. **ATTACHMENTS INCLUDED AS PART OF THIS CONTRACT:**
   Attachment A – Standard Terms and Conditions
   Attachment B – Scope of Services Provided by the Consultant
   Attachment C – Fees

The parties below hereto agree to abide by all the provisions of this contract. IN WITNESS WHEREOF, the parties sign and cause this contract to be executed.

CONSULTANT – (CONSULTANT NAME)		**IVINS CITY**	
By: _____	_____	By: _____	_____
Title:	Date	Title: Public Works Director	Date

ATTACHMENT A – STANDARD TERMS AND CONDITIONS

1. **CONTRACT JURISDICTION AND COMPLIANCE WITH LAWS:** The provisions of this contract shall be governed by the laws of the State of Utah. Also, the CONSULTANT and those engaged by the CONSULTANT shall comply with all Federal, State and local laws, regulations and other legally binding requirements that pertain to the services provided under this contract. Proof of the CONSULTANT'S compliance with licensing requirements shall be furnished to the CITY upon request.

2. **RECORDS ADMINISTRATION:** The CONSULTANT shall maintain all books, papers, documents, accounting records and other evidence to support costs billed for under this contract. These records shall be retained by the CONSULTANT for a period of at least four (4) years after the contract terminates, or until all audits initiated within the four years have been completed, whichever is later. These records shall be made available at all reasonable times during the four year period for audit and inspection by the CITY and other authorized State and Federal auditors. The CONSULTANT'S records supporting the cost proposal shall also be retained and made available for review by authorized CITY staff. Copies of requested records shall be furnished to the CITY upon request.

3. **CONSULTANT, AN INDEPENDENT CONTRACTOR:** The CONSULTANT shall be an independent contractor, and as such, shall have no authority, express or implied to bind the CITY to any agreement, settlement, liability, or understanding whatsoever; and agrees not to perform any acts as agent for the CITY, except as specifically authorized and set forth herein. Persons employed by the CITY and acting under the direction of the CITY shall not be deemed to be employees or agents of the CONSULTANT. Compensation provided to the CONSULTANT herein shall be the total compensation payable hereunder by the CITY.

4. **INDEMNITY - LIABILITY:** The CONSULTANT shall hold harmless and indemnify the CITY and its officers, agents and employees from and against any and all claims, suits and cost, including attorneys fees, for injury or damage of any kind to the extent arising out of the negligent acts, wrongful acts, errors, or omissions of the CONSULTANT, or its subconsultants when acting within the scope of their subcontract, or their respective agents, employees or representatives.

   The CONSULTANT is an independent contractor contracted with the CITY. Any periodic plan and specification review or construction inspection performed by the CITY arising out of the performance of the contract, does not relieve the CONSULTANT of its duty in the performance of the contract, or ensure compliance with customary standard of professional care.

5. **SEPARABILITY:** The declaration by any court, or other binding legal source, that any provision of this contract is illegal and void and shall not affect the legality and enforceability of any other provision of this contract, unless said provisions are mutually dependent.

6. **LIABILITY INSURANCE:** Services to be provided by the CONSULTANT under this contract are required to be covered by insurance. The CONSULTANT shall furnish the CITY a Certificate of Insurance applying to this contract for each type of insurance required, to be approved by the CITY, before the CONSULTANT begins work under this contract. The CONSULTANT'S insurer must be authorized to do business in Utah and must meet the specified A.M. Best rating or better at the time this contract is executed. The following insurance shall be maintained in force until all activities which are required by this contract or as changed by contract modification are completed and accepted by the CITY:

   (a) General Liability and Automobile Liability insurance with a limit of not less than $1,000,000 per occurrence and not less than $2,000,000 aggregate and having an A.M. Best rating of A-class VIII or better. If this coverage is written on a claims-made basis, the Certificate of Insurance shall so indicate.

   The CONSULTANT represents that as long as commercially available the insurance shall remain in effect such that claims reported up to three (3) years beyond the date of substantial completion of this contract are covered.

   (b) Architect and/or Engineers Professional Liability (errors and omissions) insurance having an A.M. Best rating of A-class VIII or better, is required at the coverage amount of $1,000,000 per claim and $2,000,000 aggregate. If this coverage is written on a claims-made basis, the Certificate of Insurance shall so indicate. The CONSULTANT represents that as long as commercially

available the insurance shall remain in effect such that claims reported up to three (3) years beyond the date of substantial completion of this contract are covered (on construction contracts or modifications for construction management the insurance, shall remain in effect for one (1) year after completion of the project).

(c) Valuable Papers & Records Coverage and/or Electronic Data Processing (Data and Media) Coverage for the physical loss or destruction of the work product including drawings, plans, specifications and electronic data and media. Such insurance shall be of a sufficient limit to protect the CONSULTANT, its sub-consultants and the CITY from the loss of said information.

(d) Aircraft Liability in the amount of $1,000,000 per occurrence if aircraft are utilized in connection with this contract.

(e) The CONSULTANT shall provide evidence that his employees and sub-consultant employees are covered by Workers Compensation. If they are covered by Workers Compensation Fund of Utah, then the A.M. Best rating is not required in this area.

(f) The CONSULTANT shall require the insurance company that issues the Certificates of Insurance for the evidence of the required insurance coverage to endeavor to provide the CITY with 30 days written notice in the event that coverage is canceled before the policy expiration date stated in the Certificate. The CONSULTANT further agrees to provide the CITY with 30 days written notice prior to making an alternation or material change to the required insurance coverage.

Policies referred to in 6(a) and 6(d) above are required to be endorsed naming Ivins City as Additional Insureds and, on General Liability and Aircraft Liability, indicate they are primary and not contributing coverage. All required policies, endorsements, insurance companies issuing same, and self insured programs are subject to review and approval by the CITY.

17. REVIEW AND INSPECTION OF WORK: It is expressly understood and agreed that authorized representatives of the CITY shall have the right to review and inspect the work in process, and the CONSULTANT'S facilities, at any time during normal business hours or by appointment.

18. NON DISCRIMINATION PROVISIONS: The CONSULTANT agrees to abide by the provisions of the Utah Anti-discrimination Act, Title 34 Chapter 35 U.C.A. 1953, as amended, and Title VI and Title VII of the Civil Rights Act of 1964 (42 USC 2000e), which prohibits discrimination against any employee or applicant for employment, or any applicant or recipient of services, on the basis of race, religion, color, or national origin; and further agrees to abide by Executive Order No. 11246 entitled "Equal Employment Opportunity," as amended by Executive order 11375 and as supplemented in Department of Labor Regulations (41CFR Part 60), which prohibits discrimination on the basis of age; and Section 504 of the Rehabilitation Act of 1973, which prohibits discrimination on the basis of handicap. The CONSULTANT agrees to abide by Utah's Executive Order, dated June 30, 1989, which prohibits sexual harassment in the work place. Sections 49 CFR 21 through Appendix H and 23 CFR 710.405(b) are applicable by reference in all contracts and subcontracts financed in whole or in part with Federal funds. The CONSULTANT further agrees to furnish reports to the CITY upon request for the purpose of determining compliance with these statutes identified in this section. The CONSULTANT shall comply with the Americans With Disabilities Act (ADA).

19. OWNERSHIP OF DOCUMENTS: All tracings, plans, manuscripts, specifications, data, maps, etc., prepared or obtained by the CONSULTANT, as a result of working on this contract, shall be delivered to and become the property of the CITY. All documents and data pertaining to work required by this contract shall be the property of the CITY and shall be delivered to the CITY within 10 working days after termination of the contract, regardless of the reason for termination; and without restriction or limitation on their further use. Costs of all the above items shall be considered as included in the basic contract compensation for the work as referenced to in this Contract.

The CONSULTANT shall not be responsible for another party's application of information contained in the contract documents to other projects, or for uses other than that for which the information was intended. Should patentable discoveries or inventions result from work required by this contract, all rights to them shall be the sole property of the CONSULTANT. Except, the CONSULTANT agrees to grant to the CITY a non exclusive, non transferable, paid up, license to use the discovery or invention. The CONSULTANT is permitted to copyright reports and other contract products provided that the CITY has a royalty free,

non exclusive, irrevocable right to reproduce, publish, or otherwise use and authorize others to use for governmental purposes.

20. ASSIGNMENT AND SUBCONTRACTING: The CONSULTANT shall not subcontract any of the work required by this contract, or assign monies to be paid to the CONSULTANT hereunder, without the prior written approval of the CITY. All payments made by the CONSULTANT to the subcontractor for services required by this contract shall be subject to audit by the CITY. All subcontracts must include all the same terms and conditions and provisions included in this contract. However, the prime CONSULTANT is responsible for ensuring that all work performed by sub-consultants is insured under their insurance policy, or they require that the sub-consultants meet the insurance provisions required under this contract.

21. DISPUTES: Claims for services, materials, or damages not clearly authorized by the contract, or not ordered by the CITY by prior written authorization, will not be paid. The CONSULTANT shall notify the CITY in writing, and wait for written approval, before it begins work not previously authorized. If such notification and approval is not given or the claim is not properly documented, the CONSULTANT shall not be paid the extra compensation. Proper documentation alone shall not prove the validity of the claim. The parties agree to use arbitration or mediation after exhausting applicable administrative reviews to resolve disputes arising out of this contract where the sole relief sought is monetary damages $100,000 or less, exclusive of interest and costs.

22. CLAIMS - DELAYS AND EXTENSIONS: The CONSULTANT agrees to proceed with the work previously authorized by the contract, or in writing, continually and diligently, and will make no charges or claims for extra compensation for delays or hindrances within its control during the progress of this contract. The CITY may allow an extension of time for the contract, for a reasonable period as agreed by the parties, should a delay or hindrance occur. The CITY shall not waive any of its rights under the contract by permitting the CONSULTANT to proceed with the contract after the established completion date.

23. CONSULTANT'S ENDORSEMENT ON PLANS, ETC.: The CONSULTANT (if a firm, the responsible principal) is required to endorse and affix its seal to plans, reports, and engineering data furnished to the CITY under this contract.

24. CONTRACT MODIFICATIONS: This contract may be amended, modified, or supplemented, as it is mutually agreed to by the parties by written contract modification, executed by the parties hereto and attached to the original signed contract.

Claims for services furnished by CONSULTANT that are not specifically authorized by this contract or by appropriate modification, shall not be paid by the CITY. When a contract modification has been agreed to by the parties no claim for the extra work done or material furnished shall be made by the CONSULTANT until the written modification has been fully executed. Any verbal agreements not confirmed in writing are non-binding.

25. TERMINATION: This contract may be terminated as follows:

(a) Mutual agreement of the parties; in writing and signed by the parties.

(b) By either party for failure of the other party to fulfill its obligations, as set forth with the provisions of this contract. Reasonable allowances will be made for circumstances beyond the control of the CONSULTANT and the CITY. Written notice of intent to terminate is required and shall specify the reasons supporting termination.

(c) By the CITY for the convenience of the CITY upon written notice to the CONSULTANT.

(d) Upon satisfactory completion of required contract services.

On termination of this contract all accounts and payments will be processed in accordance with contract terms. An appraisal of the value of work performed to the date of termination shall be made to establish the amount due to or from the CONSULTANT. Upon determining the final amount due the CONSULTANT, or to be reimbursed by the CONSULTANT, in the manner stated above, the final payment will be processed in order to close out the contract.

26. DESIGN/CONSTRUCTION: The CONSULTANT will utilize all current CITY standards and be responsible for the professional quality, technical accuracy, and the coordination of all designs, drawings, specifications, and other services furnished by the CONSULTANT under this contract. The CONSULTANT will, without additional compensation, correct or revise any errors or omissions in its design, drawings, specifications and other services. This contract may remain open for modifications for any unforeseen work that may be deemed necessary by the CITY going into the construction phase to accommodate future work by the prime CONSULTANT or sub-consultant. CONSULTANT will perform the services in accordance with the customary standard of professional care.

27. ELECTRONIC DOCUMENTATION: It is the CONSULTANTS responsibility to provide all plans, specifications, surveys, and associated data in CITY acceptable electronic formats on one or more CD's.

Computer Aided Drafting and Design acceptable formats are as follows:

(a) Drafting: AutoCAD Civil 3D or AutoCAD Map (.dwg) 2008 or lower.

(b) Survey and Photogrammetry: Survey point files will be in ASCII format, (point number, Northing, Easting, Elevation and code). Raster Images (aerial photos) will be in AutoCAD and GIS compatible formats.

i) Horizontal coordinate systems shall be 1983 North American Datum (NAD 83) State Plane Utah South (FIPS 4303) in U.S. feet and referenced to the monuments listed in the Ivins City Horizontal Control Network.

ii) Vertical datum shall be North American Vertical Datum 1988 (NAVD 88) and referenced to the monuments listed in the Ivins City Horizontal Control Network.

(c) Plotting: Provide (.tif or .jpg) images of each individual plot sheet with engineer's certification and any other required signatures. Provide (.pdf) file for the entire drawing package in a single file unless file size necessitates breaking package into manageable sections.

(d) Contract Documents: Provide in Microsoft Word 2007 (.docx or .doc) or lower. Also provide an Adobe Acrobat version (.pdf) with searchable text except on individual pages that include scanned signatures, stamps, or other certifications.

The CONSULTANT will be responsible for the accuracy of any converted data.

28. GOVERNMENT RECORDS ACCESS AND MANAGEMENT ACT: Pursuant to the Government Records Access and Management Act, Title 63G, Chapter 2, Utah Code Annotated, the CONSULTANT understands that if it believes that any records it submits to the CITY should be considered confidential for business purposes under Utah Code Ann. §63G-2-309, it must attach written notice of that opinion to the record when it first submits it. The CONSULTANT understands that the CITY will not treat any such record as confidential under Section 63G-2-309 absent such written notification. Additionally, the CONSULTANT agrees that neither the CITY, nor any of their agents or employees are responsible for disclosure of any record that the CONSULTANT considers confidential if a court orders it released.

29. WORK ACCEPTANCE:

(a) All work performed under this contract shall be performed in accordance with Standards, Specifications, Manuals of Instruction, Policies and Procedures established by the CITY. All work shall be subject to the approval of the CITY through its designated representatives.

(b) Reviews and Quality Assurance: All contracts require a quality control / quality assurance plan.

30. NO THIRD PARTY BENEFICIARIES: The parties enter in to this contract for the sole benefit of the parties, in exclusion of any third party, and no third party beneficiary is intended or created by the execution of this contract.

31. USE OF CITY LOGO: The CONSULTANT will not misrepresent their employees as CITY employees. The CONSULTANT will not use the City logo on business cards for their employees nor use City letterhead on correspondence signed by their employees with the following exception: the CONSULTANT may incorporate the CITY logo on their business cards stating, "In partnership with Ivins

City" in addition to the CONSULTANT'S own logo. The CONSULTANT may prepare correspondence for the approval and signature of appropriate Ivins City employees.

32. DUTIES OF THE CITY:

(a) Guarantee Access: The CITY shall guarantee access to and make all provisions for the CONSULTANT to enter upon all lands, both public and private which in the judgment of the parties hereto are necessary to carry out such work as may be required.

(b) Prompt Consideration: The CITY shall give prompt consideration to all reports, plans, proposals and other documents presented by the CONSULTANT.

(c) Documents: The CITY shall furnish Standards, Specifications, Manuals of Instruction, Policies and Procedures, and other available information, including any material previously prepared for this work.

(d) Services: The CITY will perform standard services relating to this contract

Ivins City
Request for Proposals for

Engineering Services to Design 200 West Sewer Diversion and Lower Tuacahn Wash Line Improvements Projects

Ivins City, Utah is soliciting competitive electronic PDF proposals from qualified engineers to provide services as outlined in the **SCOPE OF SERVICES SECTION** of this request.

I. Information:

This request for proposals (RFP) consists of two projects taken from the recommendations within the 2018 Ivins Sewer Master Plan. This RFP is for engineering services to design the 200 West Sewer Diversion as well as the Lower Tuacahn Wash Line Improvements as recommended in the Master Plan. This RFP also includes construction period services. The City will hold a pre-RFP meeting to discuss the project on Tuesday, November 27th at 9:00 a.m. at the Ivins City Offices at 55 North Main Street, Ivins, UT 84738.

Although this RFP includes a suggested scope of work, the City is requesting if an item has been omitted or if the consultant feels an item would enhance or better the project, please include these items in the proposal.

The City is requesting the consultant prepare a Technical Proposal and Cost Proposal for this work. Part of the Technical Proposal will be a section demonstrating the Consultant's qualifications. As a minimum, the Consultant will demonstrate experience in sewer pipe design. The experience description will include the size of the project. Provide a contact name and phone number for each client.

Finally, the City will likely award the engineering services for this contract in conjunction with the "Gap Fill Projects 600 West and 200 East" project to the same consultant to minimize coordination.

II. Background:

200 West Sewer Diversion Project

In 2016, a Sewer Master Plan was prepared by Bowen Collins and Associates. The intent of this master plan was to evaluate existing sewer infrastructure and identify existing and future deficiencies in the collection system. This master plan identified and recommended some short-term improvements to the system.

The collection system model results indicated that as flows increase there will end up being a string of pipe deficiencies down the primary corridor of the collection system. The primary corridor of the system passes through the heart of the City. After evaluating multiple options, the Master Plan (project S-3) recommended that instead of upsizing the main trunk line through town that diversion pipeline would be installed to divert sewer flows away from these future deficient sections of pipe. The location chosen for

the diversion was 200 West, resulting in a new 10" pipeline from 400 South to Highway 91 (approximately 2,500 feet).

The master plan will be available on Ivins City's website for more information regarding the locations of the projects and other various details.

Lower Tuacahn Wash Line Improvements Project

Another project identified in the Sewer Master Plan was the Tuacahn Wash Access Improvements Project (project S-1A). Over 95% of sewer flow from Ivins City flows through a trunk line located in the Tuacahn Wash from Pioneer Parkway, in Santa Clara, down to Snow Canyon High School. This line is susceptible to inflow during flood events and needs maintenance-related improvements. The following short-term improvements were recommended:

- Construct a 12' access road along the wash for maintenance crews to access manholes
- Raise/repair manholes that have been damaged from flooding or that are susceptible to inflow.
- Camera the line and repair any damaged sections of pipe which may be susceptible to inflow or leakage.

The following information will be provided by the City:

- 2018 Irrigation Master Plan
- GIS Utility Information
- 2006 Aerial Photogrammetry, 1" = 100', 2' contours
- 2012 LiDAR Aerial Topography, 1 meter point cloud and processed 2' contours
- March 2014 Aerial Photography by Pictometry, 3-inch pixels
- 2016 Aerial Photography
- 2017 Lidar

III. Scope of Services:

The City has compiled an anticipated scope of work for the projects, but once a consultant has been selected we will rely on the consultant to prepare a scope of work for this project. The consultant should indicate their understanding of the work required through their experience on previous, similar projects.

This anticipated scope of work is relevant to both projects, but the City would like a separate Cost Proposal for each project.

A. Project Schedule
    1. The City is proposing a maximum of 6 months for design, please indicate in the proposal if that is sufficient time.
B. Coordination Meetings

1. The Consultant shall plan on a kickoff meeting and regular progress meetings to review project progress, to coordinate design efforts, to address issues that arise, and to keep the City informed.

C. Collect and Review Existing Information
   1. The Consultant shall be responsible to determine the information required to complete the project. The City will provide copies of relevant previous studies and planning information, City GIS utility information, digital copies of aerial photography, etc.

D. Site and Utilities Investigation
   1. The Consultant shall be responsible for visiting the site and conducting investigations to identify existing utilities and other site information pertinent to the design.
   2. The Consultant shall be responsible for the design/topographic survey for the project.

E. Right of Way (ROW) / Easement Investigation and Acquisition
   1. The Consultant shall be responsible for determining ROW/easements necessary for the projects. The City anticipates that the work done on the existing facilities in the Tuacahn Wash can be done within existing ROW/easements, but the access road(s) may require additional ROW/easements. The City doesn't anticipate any additional ROW/easements will be necessary to design/construct the 200 West sewer diversion line.
   2. The Consultant shall be responsible to assist the City in acquiring necessary ROW/easements for the project, which may include, but not be limited to, property research, writing legal descriptions, coordinating with appraiser, negotiations with property owners, writing property deeds, etc. The appraisal fees and any recording fees will be paid for directly by the City or will be directly reimbursed to the engineering firm (these fees should not be included in the cost proposal section of this RFP)

F. Storm Water Pollution Prevention Plan
   1. Prepare a storm water pollution prevention plan for the project.

G. Design Drawings
   1. The Consultant shall provide 60% and 100% design sets for review by the City. Review comments will be addressed in a final design drawing set.

H. Technical Specifications
   1. The Consultant shall provide technical specifications for the project for review at the 100% design stages. Review comments will be addressed in final technical specifications.

I. Contract Documents
   1. The Consultant shall prepare final bid documents for the project, including final design drawings, technical specifications, and standard City bid documents and contract conditions.

J. Construction Cost Estimate

1. The Consultant shall prepare an engineer's opinion of probable cost for the construction of the project.

K. Permits
   1. The Consultant shall be responsible to identify and obtain all necessary permits to complete the project as outlined. Any permit directly associated with construction will be the responsibility of the construction contractor.

L. Bid Period Services (please note, the bidding of the 200 West Sewer Diversion and the Lower Tuacahn Wash Line Improvements projects will likely be bid separately, awaiting consultation and recommendations by the Consultant)
   1. The Consultant shall assist the City in preparing a bid advertisement for the project, providing bid documents, holding a pre-bid meeting, and providing any needed addenda during the bid period.
   2. The Consultant shall assist the City in evaluating the bids received for the project and recommending award of the project.

M. Pre-construction Meeting
   1. The Consultant shall prepare for and conduct a pre-construction meeting with the City and the Contractor.

N. Construction Progress Meetings and Support Services
   1. The Consultant shall provide the following: submittal review; response to Contractor requests for information; review of and make recommendations regarding change order requests; review of pay applications for the duration of the construction period; and conduct project closeout at completion of the work.
   2. The Consultant will prepare for and attend weekly construction progress meetings.

O. Construction Inspection
   1. The Consultant shall provide a recommended number of hours of inspection services during construction of the project (minimum 160 hours of inspection time for the 200 West Project and 120 hours of inspection time for the Tuacahn Wash Project). The inspector will provide reports and photographic logs of construction as necessary. A public works inspector from Ivins City will be available to assist the consultant with the inspection services.
   2. The Consultant shall provide a comprehensive inspection with the contractor and the City at substantial completion, final completion, and just prior to warranty expiration. Prepare and deliver to Ivins a written list of observed deficiencies.

P. Project Documentation
   1. The Consultant will use redlined drawings provided by the Contractor to develop as-built construction drawings for the project.
   2. The Consultant shall assist the City in closing out the project.

IV. Compensation for Services:

Ivins City intends to enter into a professional services contract with the Consultant that's chosen by the selection committee based on the selection process below. Compensation for the services rendered is to be based upon a time-expended basis with an agreed maximum not to exceed value. **The selection of the engineer or engineering firm will be based on qualifications, cost proposal, and other criteria as described in the selection process below.**

Attached to this RFP is the City's template contract for professional services. By submitting a proposal for this RFP, the firm is agreeing with the standard terms and conditions of this contract. If the consulting firm cannot or is not willing to agree with specific terms and/or conditions of the template contract, those specific terms and/or conditions should be identified in the RFP proposal along with explanations why they cannot be agreed to.

IV. Evaluation Criteria and Selection Process

Selection of the successful Engineer will be based upon a matrix giving a predetermined value to each of the submissions required in this section. The award of contract will go to the engineer receiving the most points based on the following:

A. Qualifications of the firm, project management and design teams, and key project personnel (20 POINTS AVAILABLE)
B. Design approach and methodology, understanding of work required, proposal presentation (10 POINTS AVAILABLE)
C. Past performance and references, communication skills, local knowledge and experience (20 POINTS AVAILABLE)
D. Scope of work and schedule (20 POINTS AVAILABLE)
E. Cost Proposal (30 POINTS AVAILABLE)

V. Proposal Format and Content

Proposals are to follow the format and are to contain information listed in this section. To be considered, proposals must address all the items listed in this section and adhere to page limitations. **The Consultant shall have a combined Technical Proposal for both projects, but the Consultant shall provide separate Cost Proposals for each of the two projects.**

TECHNICAL PROPOSAL FORMAT

A. Letter of transmittal introducing firm, the office location where the project team will be located, the firm's capabilities, and nature of proposal.
B. Project Team and Approach. Sub-contractors need to be listed in this section as well. (Two pages maximum) If needed, complete resumes can be included as an appendix.
C. Firm Experience, Qualifications, and References. (Two pages maximum)

1. List projects similar in size and complexity completed by firm (minimum three).
2. Provide names and telephone numbers for each of the projects listed.

D. Scope of Work (Two pages maximum)
   1. Provide a Scope of Work using the City's list as a basis for beginning but add or subtract from it as the Consultant feels is appropriate. Provide specifics about the Consultant's understanding of the work to be performed and how it should be performed. The Consultant should keep each task separate, and each task should have a scope of work associated with it. The Cost Proposal should reflect the same breakdown.
   2. Identify billing rates of each member of project team and number of hours required for project tasks as well as estimated direct charges. The intent of this is to assist the City in identifying the level of expertise being applied to various tasks. Billing rates provide information to the City in recognizing expertise and value.

E. Schedule
   3. Provide a summary of the proposed schedule of the project in the proposal by major tasks.

COST PROPOSAL FORMAT

A. Introduction Letter
   1. Provide a one-page letter, which summarizes the estimated total fee for the project.

B. Estimated Fees
   1. The City requires a breakdown on the total estimated fees for each major task and subtask level of detail. This needs to be presented in table form as an Exhibit attachment to the Introduction Letter.

C. Personnel Hourly Rates and Reimbursables List
   1. Provide a separate Exhibit, which indicates the hourly rates for each of the project team member and costs for reimbursable items. Any expansion of the project scope will be based on these rates.

Both the Technical and Cost proposals are to be submitted electronically, see the submittal requirements section for more information. The Technical and Cost proposals are to be provided as two separate PDF documents, so that the technical proposal may be reviewed and assessed without foreknowledge of the associated fee.

VII Submittal Requirements

Proposals are due on Tuesday, December 11th by 3:00 p.m.

The proposal should be submitted electronically in a PDF format to tjorgensen@ivins.com. Large files may be transmitted by including a link to an FTP site on the email. Hard copies will not be accepted.

Inquiries regarding the RFP should be directed to Chuck Gillette, P.E., Public Works Director or Tom Jorgensen, P.E., Assistant Public Works Director of Administration at (435) 634-0689, or by inquiry to the address above. The City reserves the right to award the contract to the highest ranked firm without further consideration or discussion. **The City reserves the right to reject any and all proposals received.** The City also reserves the right to waive any irregularity, informality, or technicality in the proposals in its best interest. If terms cannot be mutually agreed upon, The City will enter into negotiations with the secondary engineer/firm.

Attachment A: Sample Engineering Services Contract

PROFESSIONAL SERVICES CONTRACT
FOR
PROFESSIONAL ENGINEERING SERVICES
FOR
(PROJECT)

1. **CONTRACTING PARTIES:** This contract is between the Ivins City, referred to as the CITY and,

   (CONSULTANT)

   referred to as CONSULTANT.

2. **REASON FOR CONTRACT:** The CITY does not have sufficient qualified staff to complete the work required in the suggested time frame and the CONSULTANT is professionally qualified and willing to assist the CITY with Professional Engineering services as further described in Attachment B.

3. **PROJECT/CONTRACT PERIOD:** The project/contract will terminate (DATE), unless otherwise extended or canceled in accordance with the terms and conditions of this contract.

4. **CONTRACT COSTS:** The CONSULTANT will be paid a maximum of (DOLLARS) for costs authorized by this Contract as further described in Attachment C.

5. **ATTACHMENTS INCLUDED AS PART OF THIS CONTRACT:**
   Attachment A – Standard Terms and Conditions
   Attachment B – Scope of Services Provided by the Consultant
   Attachment C – Fees

The parties below hereto agree to abide by all the provisions of this contract. IN WITNESS WHEREOF, the parties sign and cause this contract to be executed.

CONSULTANT – (CONSULTANT NAME)		**IVINS CITY**	
By: _____	_____	By: _____	_____
Title:	Date	Title: Public Works Director	Date

ATTACHMENT A – STANDARD TERMS AND CONDITIONS

1. **CONTRACT JURISDICTION AND COMPLIANCE WITH LAWS:** The provisions of this contract shall be governed by the laws of the State of Utah. Also, the CONSULTANT and those engaged by the CONSULTANT shall comply with all Federal, State and local laws, regulations and other legally binding requirements that pertain to the services provided under this contract. Proof of the CONSULTANT'S compliance with licensing requirements shall be furnished to the CITY upon request.

2. **RECORDS ADMINISTRATION:** The CONSULTANT shall maintain all books, papers, documents, accounting records and other evidence to support costs billed for under this contract. These records shall be retained by the CONSULTANT for a period of at least four (4) years after the contract terminates, or until all audits initiated within the four years have been completed, whichever is later. These records shall be made available at all reasonable times during the four year period for audit and inspection by the CITY and other authorized State and Federal auditors. The CONSULTANT'S records supporting the cost proposal shall also be retained and made available for review by authorized CITY staff. Copies of requested records shall be furnished to the CITY upon request.

3. **CONSULTANT, AN INDEPENDENT CONTRACTOR:** The CONSULTANT shall be an independent contractor, and as such, shall have no authority, express or implied to bind the CITY to any agreement, settlement, liability, or understanding whatsoever; and agrees not to perform any acts as agent for the CITY, except as specifically authorized and set forth herein. Persons employed by the CITY and acting under the direction of the CITY shall not be deemed to be employees or agents of the CONSULTANT. Compensation provided to the CONSULTANT herein shall be the total compensation payable hereunder by the CITY.

4. **INDEMNITY - LIABILITY:** The CONSULTANT shall hold harmless and indemnify the CITY and its officers, agents and employees from and against any and all claims, suits and cost, including attorneys fees, for injury or damage of any kind to the extent arising out of the negligent acts, wrongful acts, errors, or omissions of the CONSULTANT, or its subconsultants when acting within the scope of their subcontract, or their respective agents, employees or representatives.

   The CONSULTANT is an independent contractor contracted with the CITY. Any periodic plan and specification review or construction inspection performed by the CITY arising out of the performance of the contract, does not relieve the CONSULTANT of its duty in the performance of the contract, or ensure compliance with customary standard of professional care.

5. **SEPARABILITY:** The declaration by any court, or other binding legal source, that any provision of this contract is illegal and void and shall not affect the legality and enforceability of any other provision of this contract, unless said provisions are mutually dependent.

6. **LIABILITY INSURANCE:** Services to be provided by the CONSULTANT under this contract are required to be covered by insurance. The CONSULTANT shall furnish the CITY a Certificate of Insurance applying to this contract for each type of insurance required, to be approved by the CITY, before the CONSULTANT begins work under this contract. The CONSULTANT'S insurer must be authorized to do business in Utah and must meet the specified A.M. Best rating or better at the time this contract is executed. The following insurance shall be maintained in force until all activities which are required by this contract or as changed by contract modification are completed and accepted by the CITY:

   (a) General Liability and Automobile Liability insurance with a limit of not less than $1,000,000 per occurrence and not less than $2,000,000 aggregate and having an A.M. Best rating of A-class VIII or better. If this coverage is written on a claims-made basis, the Certificate of Insurance shall so indicate.

   The CONSULTANT represents that as long as commercially available the insurance shall remain in effect such that claims reported up to three (3) years beyond the date of substantial completion of this contract are covered.

   (b) Architect and/or Engineers Professional Liability (errors and omissions) insurance having an A.M. Best rating of A-class VIII or better, is required at the coverage amount of $1,000,000 per claim and $2,000,000 aggregate. If this coverage is written on a claims-made basis, the Certificate of Insurance shall so indicate. The CONSULTANT represents that as long as commercially

available the insurance shall remain in effect such that claims reported up to three (3) years beyond the date of substantial completion of this contract are covered (on construction contracts or modifications for construction management the insurance, shall remain in effect for one (1) year after completion of the project).

(c) Valuable Papers & Records Coverage and/or Electronic Data Processing (Data and Media) Coverage for the physical loss or destruction of the work product including drawings, plans, specifications and electronic data and media. Such insurance shall be of a sufficient limit to protect the CONSULTANT, its sub-consultants and the CITY from the loss of said information.

(d) Aircraft Liability in the amount of $1,000,000 per occurrence if aircraft are utilized in connection with this contract.

(e) The CONSULTANT shall provide evidence that his employees and sub-consultant employees are covered by Workers Compensation. If they are covered by Workers Compensation Fund of Utah, then the A.M. Best rating is not required in this area.

(f) The CONSULTANT shall require the insurance company that issues the Certificates of Insurance for the evidence of the required insurance coverage to endeavor to provide the CITY with 30 days written notice in the event that coverage is canceled before the policy expiration date stated in the Certificate. The CONSULTANT further agrees to provide the CITY with 30 days written notice prior to making an alternation or material change to the required insurance coverage.

Policies referred to in 6(a) and 6(d) above are required to be endorsed naming Ivins City as Additional Insureds and, on General Liability and Aircraft Liability, indicate they are primary and not contributing coverage. All required policies, endorsements, insurance companies issuing same, and self insured programs are subject to review and approval by the CITY.

17. REVIEW AND INSPECTION OF WORK: It is expressly understood and agreed that authorized representatives of the CITY shall have the right to review and inspect the work in process, and the CONSULTANT'S facilities, at any time during normal business hours or by appointment.

18. NON DISCRIMINATION PROVISIONS: The CONSULTANT agrees to abide by the provisions of the Utah Anti-discrimination Act, Title 34 Chapter 35 U.C.A. 1953, as amended, and Title VI and Title VII of the Civil Rights Act of 1964 (42 USC 2000e), which prohibits discrimination against any employee or applicant for employment, or any applicant or recipient of services, on the basis of race, religion, color, or national origin; and further agrees to abide by Executive Order No. 11246 entitled "Equal Employment Opportunity," as amended by Executive order 11375 and as supplemented in Department of Labor Regulations (41CFR Part 60), which prohibits discrimination on the basis of age; and Section 504 of the Rehabilitation Act of 1973, which prohibits discrimination on the basis of handicap. The CONSULTANT agrees to abide by Utah's Executive Order, dated June 30, 1989, which prohibits sexual harassment in the work place. Sections 49 CFR 21 through Appendix H and 23 CFR 710.405(b) are applicable by reference in all contracts and subcontracts financed in whole or in part with Federal funds. The CONSULTANT further agrees to furnish reports to the CITY upon request for the purpose of determining compliance with these statutes identified in this section. The CONSULTANT shall comply with the Americans With Disabilities Act (ADA).

19. OWNERSHIP OF DOCUMENTS: All tracings, plans, manuscripts, specifications, data, maps, etc., prepared or obtained by the CONSULTANT, as a result of working on this contract, shall be delivered to and become the property of the CITY. All documents and data pertaining to work required by this contract shall be the property of the CITY and shall be delivered to the CITY within 10 working days after termination of the contract, regardless of the reason for termination; and without restriction or limitation on their further use. Costs of all the above items shall be considered as included in the basic contract compensation for the work as referenced to in this Contract.

The CONSULTANT shall not be responsible for another party's application of information contained in the contract documents to other projects, or for uses other than that for which the information was intended. Should patentable discoveries or inventions result from work required by this contract, all rights to them shall be the sole property of the CONSULTANT. Except, the CONSULTANT agrees to grant to the CITY a non exclusive, non transferable, paid up, license to use the discovery or invention. The CONSULTANT is permitted to copyright reports and other contract products provided that the CITY has a royalty free,

non exclusive, irrevocable right to reproduce, publish, or otherwise use and authorize others to use for governmental purposes.

20. ASSIGNMENT AND SUBCONTRACTING: The CONSULTANT shall not subcontract any of the work required by this contract, or assign monies to be paid to the CONSULTANT hereunder, without the prior written approval of the CITY. All payments made by the CONSULTANT to the subcontractor for services required by this contract shall be subject to audit by the CITY. All subcontracts must include all the same terms and conditions and provisions included in this contract. However, the prime CONSULTANT is responsible for ensuring that all work performed by sub-consultants is insured under their insurance policy, or they require that the sub-consultants meet the insurance provisions required under this contract.

21. DISPUTES: Claims for services, materials, or damages not clearly authorized by the contract, or not ordered by the CITY by prior written authorization, will not be paid. The CONSULTANT shall notify the CITY in writing, and wait for written approval, before it begins work not previously authorized. If such notification and approval is not given or the claim is not properly documented, the CONSULTANT shall not be paid the extra compensation. Proper documentation alone shall not prove the validity of the claim. The parties agree to use arbitration or mediation after exhausting applicable administrative reviews to resolve disputes arising out of this contract where the sole relief sought is monetary damages $100,000 or less, exclusive of interest and costs.

22. CLAIMS - DELAYS AND EXTENSIONS: The CONSULTANT agrees to proceed with the work previously authorized by the contract, or in writing, continually and diligently, and will make no charges or claims for extra compensation for delays or hindrances within its control during the progress of this contract. The CITY may allow an extension of time for the contract, for a reasonable period as agreed by the parties, should a delay or hindrance occur. The CITY shall not waive any of its rights under the contract by permitting the CONSULTANT to proceed with the contract after the established completion date.

23. CONSULTANT'S ENDORSEMENT ON PLANS, ETC.: The CONSULTANT (if a firm, the responsible principal) is required to endorse and affix its seal to plans, reports, and engineering data furnished to the CITY under this contract.

24. CONTRACT MODIFICATIONS: This contract may be amended, modified, or supplemented, as it is mutually agreed to by the parties by written contract modification, executed by the parties hereto and attached to the original signed contract.

Claims for services furnished by CONSULTANT that are not specifically authorized by this contract or by appropriate modification, shall not be paid by the CITY. When a contract modification has been agreed to by the parties no claim for the extra work done or material furnished shall be made by the CONSULTANT until the written modification has been fully executed. Any verbal agreements not confirmed in writing are non-binding.

25. TERMINATION: This contract may be terminated as follows:

(a) Mutual agreement of the parties; in writing and signed by the parties.

(b) By either party for failure of the other party to fulfill its obligations, as set forth with the provisions of this contract. Reasonable allowances will be made for circumstances beyond the control of the CONSULTANT and the CITY. Written notice of intent to terminate is required and shall specify the reasons supporting termination.

(c) By the CITY for the convenience of the CITY upon written notice to the CONSULTANT.

(d) Upon satisfactory completion of required contract services.

On termination of this contract all accounts and payments will be processed in accordance with contract terms. An appraisal of the value of work performed to the date of termination shall be made to establish the amount due to or from the CONSULTANT. Upon determining the final amount due the CONSULTANT, or to be reimbursed by the CONSULTANT, in the manner stated above, the final payment will be processed in order to close out the contract.

26. DESIGN/CONSTRUCTION: The CONSULTANT will utilize all current CITY standards and be responsible for the professional quality, technical accuracy, and the coordination of all designs, drawings, specifications, and other services furnished by the CONSULTANT under this contract. The CONSULTANT will, without additional compensation, correct or revise any errors or omissions in its design, drawings, specifications and other services. This contract may remain open for modifications for any unforeseen work that may be deemed necessary by the CITY going into the construction phase to accommodate future work by the prime CONSULTANT or sub-consultant. CONSULTANT will perform the services in accordance with the customary standard of professional care.

27. ELECTRONIC DOCUMENTATION: It is the CONSULTANTS responsibility to provide all plans, specifications, surveys, and associated data in CITY acceptable electronic formats on one or more CD's.

Computer Aided Drafting and Design acceptable formats are as follows:

(a) Drafting: AutoCAD Civil 3D or AutoCAD Map (.dwg) 2008 or lower.

(b) Survey and Photogrammetry: Survey point files will be in ASCII format, (point number, Northing, Easting, Elevation and code). Raster Images (aerial photos) will be in AutoCAD and GIS compatible formats.

i) Horizontal coordinate systems shall be 1983 North American Datum (NAD 83) State Plane Utah South (FIPS 4303) in U.S. feet and referenced to the monuments listed in the Ivins City Horizontal Control Network.

ii) Vertical datum shall be North American Vertical Datum 1988 (NAVD 88) and referenced to the monuments listed in the Ivins City Horizontal Control Network.

(c) Plotting: Provide (.tif or .jpg) images of each individual plot sheet with engineer's certification and any other required signatures. Provide (.pdf) file for the entire drawing package in a single file unless file size necessitates breaking package into manageable sections.

(d) Contract Documents: Provide in Microsoft Word 2007 (.docx or .doc) or lower. Also provide an Adobe Acrobat version (.pdf) with searchable text except on individual pages that include scanned signatures, stamps, or other certifications.

The CONSULTANT will be responsible for the accuracy of any converted data.

28. GOVERNMENT RECORDS ACCESS AND MANAGEMENT ACT: Pursuant to the Government Records Access and Management Act, Title 63G, Chapter 2, Utah Code Annotated, the CONSULTANT understands that if it believes that any records it submits to the CITY should be considered confidential for business purposes under Utah Code Ann. §63G-2-309, it must attach written notice of that opinion to the record when it first submits it. The CONSULTANT understands that the CITY will not treat any such record as confidential under Section 63G-2-309 absent such written notification. Additionally, the CONSULTANT agrees that neither the CITY, nor any of their agents or employees are responsible for disclosure of any record that the CONSULTANT considers confidential if a court orders it released.

29. WORK ACCEPTANCE:

(a) All work performed under this contract shall be performed in accordance with Standards, Specifications, Manuals of Instruction, Policies and Procedures established by the CITY. All work shall be subject to the approval of the CITY through its designated representatives.

(b) Reviews and Quality Assurance: All contracts require a quality control / quality assurance plan.

30. NO THIRD PARTY BENEFICIARIES: The parties enter in to this contract for the sole benefit of the parties, in exclusion of any third party, and no third party beneficiary is intended or created by the execution of this contract.

31. USE OF CITY LOGO: The CONSULTANT will not misrepresent their employees as CITY employees. The CONSULTANT will not use the City logo on business cards for their employees nor use City letterhead on correspondence signed by their employees with the following exception: the CONSULTANT may incorporate the CITY logo on their business cards stating, "In partnership with Ivins

City" in addition to the CONSULTANT'S own logo. The CONSULTANT may prepare correspondence for the approval and signature of appropriate Ivins City employees.

32. DUTIES OF THE CITY:

(a) Guarantee Access: The CITY shall guarantee access to and make all provisions for the CONSULTANT to enter upon all lands, both public and private which in the judgment of the parties hereto are necessary to carry out such work as may be required.

(b) Prompt Consideration: The CITY shall give prompt consideration to all reports, plans, proposals and other documents presented by the CONSULTANT.

(c) Documents: The CITY shall furnish Standards, Specifications, Manuals of Instruction, Policies and Procedures, and other available information, including any material previously prepared for this work.

(d) Services: The CITY will perform standard services relating to this contract



SUNRISE ENGINEERING

COST PROPOSAL

200 West Sewer Diversion & Lower Tuacahn Wash Line Improvements

Ivins City

December 11, 2018

SUNRISE ENGINEERING

11 North 300 West, Washington, UT 84780
TEL 435.652.8450 | FAX 435.652.8416 | sunrise-eng.com

December 11, 2018

Tom Jorgensen, P.E.
Assistant Public Works Director, Ivins City
tjorgensen@ivins.com

Re: Fee Proposal for Consulting Services
200 West Sewer Diversion Project and Lower Tuacahn Wash Sewer Improvements Project

Dear Tom and Selection Committee Members,

It is our pleasure to submit this proposal to provide engineering services for the two projects referenced above. We have reviewed the City's template contract for professional services that was provided with Addendum No. 2 and are comfortable with the terms and conditions.

The estimated fees for each major task are summarized in the table below and a breakdown of each subtask is detailed in the attached tables including billing rates and estimated hours required.

Major Task	Estimated Fee
200 West Sewer Diversion Project	**$57,800**
Predesign & Design Engineering	$24,800
Bidding/Construction Administration	$33,000
Lower Tuacahn Wash Sewer Improvements Project	**$48,100**
Predesign & Design Engineering	$24,800
Bidding/Construction Administration	$23,300
Total	**$105,900**

We would like to thank you again for the opportunity to submit this proposal to the City and for your consideration. We look forward to working with you on this project. Please call us at (435) 652-8450 with any questions or concerns.

Sincerely,



Marv Wilson, P.E.
Principal Engineer
mwilson@sunrise-eng.com

Estimated Fees - 200 West Sewer Diversion Project

200 WEST SEWER DIVERSION PROJECT

IVINS CITY

Sunrise Engineering Inc.

Project Engineer's Estimate of Civil Engineering Services

SERVICE TYPE				PREDESIGN & DESIGN ENGINEERING							BIDDING/CONSTRUCTION ADMINISTRATION							HOUS PER CLASS	COST PER CLASS
PHASE				001	001	001	001	001	001	001	002	002	002	002	002	002	002		
TASK				0001	0002	0003	0004	0005	0006	0007	0001	0002	0003	0004	0005	0006	0007		
TASK DESCRIPTION				Coordination Meetings- Kickoff and Progress During Design	Review & Gather Data (Docs, GIS)	Site and Utilities Invest. - Survey	Design Drawings	Tech Specs	Contract Docs	EOPC	Bidding	Pre-Construction Meeting	Progress Meetings	Submittal, CO's, Pay Requests, etc	Construction Observation	Construction Observation - Substantial Completion, Final Completion	CRD's		
CLASS	DESCRIPTION	RATE	BUDGET →	$4,700	$1,500	$4,300	$7,800	$1,700	$2,700	$2,100	$2,300	$1,700	$4,000	$5,700	$13,600	$2,700	$3,000		
102	Engineer Intern (E.I.T.) II	$105.00	Hours	9	4	8	32	6	10	8	8	6	8	12		12		**123**	
			Cost	$893	$420	$840	$3,360	$630	$1,050	$840	$840	$630	$840	$1,260		$1,260			**$12,863**
104	Engineer IV	$149.00	Hours	17			8	6	10	4	8	3	16	24		6		**102**	
			Cost	$2,533			$1,192	$894	$1,490	$596	$1,192	$447	$2,384	$3,576		$894			**$15,198**
105	Engineer V	$169.00	Hours	4	4	6				1	1	3	4					**23**	
			Cost	$718	$676	$1,014				$169	$169	$507	$676						**$3,929**
110	Principal Engineer	$190.00	Hours	2				1	1					4				**8**	
			Cost	$404				$190	$190					$760					**$1,544**
352	Construction Observer II	$85.00	Hours												160	6	16	**182**	
			Cost												$13,600	$510	$1,360		**$15,470**
404	CAD Drafter IV	$101.00	Hours		2	8	32			2							16	**60**	
			Cost		$202	$808	$3,232			$202							$1,616		**$6,060**
604	GIS Specialist	$95.00	Hours		2													**2**	
			Cost		$190														**$190**
53	Administrative III	$72.00	Hours	2						4	1	1	1	1			1	**11**	
			Cost	$153						$288	$72	$72	$72	$72			$72		**$801**
935	One Man Survey Crew	$140.00	Hours			12												**12**	
			Cost			$1,680													**$1,680**
TOTAL			HOURS	34	12	34	72	13	21	19	18	13	29	41	160	24	33	523	-
			ROUNDED	$4,700	$1,500	$4,300	$7,800	$1,700	$2,700	$2,100	$2,300	$1,700	$4,000	$5,700	$13,600	$2,700	$3,000		**$57,800**

Estimated Fees - Lower Tuacahn Wash Sewer Line

LOWER TUACAHN WASH LINE IMPROVEMENTS PROJECT

IVINS CITY

Sunrise Engineering Inc.

Project Engineer's Estimate of Civil Engineering Services

SERVICE TYPE				PREDESIGN & DESIGN ENGINEERING									BIDDING/CONSTRUCTION ADMINISTRATION							HOUS PER CLASS	COST PER CLASS
PHASE				001	001	001	001	001	001	001	001	001	002	002	002	002	002	002	002		
TASK				0001	0002	0003	0004	0005	0006	0007	0008	0009	0001	0002	0003	0004	0005	0006	0007		
TASK DESCRIPTION				Coordination Meetings-Kickoff and Progress During Design	Review & Gather Data (Docs, GIS)	Site and Utilities Investigation - Survey & Geotechnical	ROW/ Easment Investigation and Acquisition	Assist With Camera Proposal and Cordination of Project	Design Drawings	Tech Specs	Contract Docs	EOPC	Bidding	Pre-Construction Meeting	Progress Meetings	Submittal, CO's, Pay Requests, etc	Construction Observation	Construction Observation - Substantial Completion, Final Completion	CRD's		
CLASS	DESCRIPTION	RATE	BUDGET →	$3,100	$1,500	$6,100	$3,000	$1,400	$5,500	$500	$1,800	$1,900	$2,300	$1,700	$2,300	$3,200	$10,200	$2,700	$900		
102	Engineer Intern (E.I.T.) II	$105.00	Hours	5	4	16	8	5	16	2	4	8	8	6	5	6		12		**105**	
			Cost	$525	$420	$1,680	$840	$525	$1,680	$210	$420	$840	$840	$630	$473	$630		$1,260			**$10,973**
104	Engineer IV	$149.00	Hours	10				5	4	2	8	4	8	3	9	12		6		**71**	
			Cost	$1,490				$745	$596	$298	$1,192	$596	$1,192	$447	$1,341	$1,788		$894			**$10,579**
105	Engineer V	$169.00	Hours	4	4	5	8					1	1		2					**25**	
			Cost	$676	$676	$845	$1,352					$169	$169		$380						**$4,267**
110	Principal Engineer	$190.00	Hours	2							1			3		4				**10**	
			Cost	$380							$190			$570		$760					**$1,900**
352	Construction Observer II	$85.00	Hours														120	6	8	**134**	
			Cost														$10,200	$510	$680		**$11,390**
404	CAD Drafter IV	$101.00	Hours		2		8		32											**42**	
			Cost		$202		$808		$3,232												**$4,242**
604	GIS Specialist	$95.00	Hours		2														2	**4**	
			Cost		$190														$190		**$380**
53	Administrative III	$72.00	Hours	1				2				4	1	1	1				1	**11**	
			Cost	$72				$144				$288	$72	$72	$72				$72		**$792**
935	One Man Survey Crew	$140.00	Hours			8														**8**	
			Cost			$1,120															**$1,120**
-	Geotechnical Subconsultant	-																		-	
			Cost			$2,500															**$2,500**
TOTAL			HOURS	22	12	29	24	12	52	4	13	17	18	13	17	22	120	24	11	410	-
			ROUNDED	$3,100	$1,500	$6,100	$3,000	$1,400	$5,500	$500	$1,800	$1,900	$2,300	$1,700	$2,300	$3,200	$10,200	$2,700	$900		$48,100



SUNRISE ENGINEERING

Gap Fill Projects 600 West and 200 East

Ivins City

December 11, 2018

SUNRISE ENGINEERING

11 North 300 West, Washington, UT 84780
TEL 435.652.8450 | FAX 435.652.8416 | sunrise-eng.com

December 11, 2018

Tom Jorgensen, P.E.
Asst. Public Works Director, Ivins City
tjorgensen@ivins.com

Re: Engineering Services for Design of Gap Fill Projects 600 West and 200 East

Dear Tom and Selection Committee Members,

Below we have listed two different options to accomplish the professional services requested in the City's Request for Proposals entitled Engineering Services for Design of Gap Fill Projects 600 West and 200 East. The first option intends to follow the scope of services outlined in the RFP. The second option represents a reduced approach which will still accomplish the City's objectives for the project.

Notably, the projects are straightforward and similar to projects we have recently completed; thus, we think that a reduced scope could accomplish the City's goals while saving money for the construction cost. A combination of the two options could also be considered if the City thinks an intermediate scope would best suit its purposes.

Recognizing that the projects are budgeted in this fiscal year and need to be completed by June 30, 2019, we hereby commit to complete bid documents for either option prior to February 28, 2019, assuming the City gives Notice to Proceed by December 31, 2018.

Option 1 – RFP Scope of Services & Estimated Fee

Scope of Services

1. Coordination Meetings
2. Review & Gather Data
3. Site & Utilities Investigation
4. Topographical Survey and Right-of-Way Review
5. Geotechnical Investigation
6. 60% Design Drawings
7. 90% Design Drawings
8. Drainage Channels for 600 West
9. Technical Specifications
10. Estimate of Construction Cost
11. Contract Documents
12. 100% Bid Set
13. Help with Bidding
14. Attend Preconstruction Meeting
15. Answer Questions During Construction & Field Changes
16. Construction Staking

Assumptions

1. This option includes two coordination meetings, including at kickoff and 60% design review.
2. This option includes up to 14 hours for answering questions during construction and field changes.

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3. This option does not include hydraulic or drainage calculations but will utilize a drainage section that will fit within the area available.
4. The utility investigation will include contacting utility owners in the area and requesting they provide information. It does not include pot holing or SUE.
5. This option does not include acquiring additional rights-of-way or easements.
6. This option assumes that the contractor will prepare the SWPPP.
7. This option does not include construction observation services.
8. This option does not include retaining wall design.

Estimated Fees

1.	Coordination Meetings	$700
2.	Review and Gather Data	$1,800
3.	Site and Utilities Investigation	$1,000
4.	Topographical Survey and Right-of-Way Review	$3,800
5.	Geotechnical Investigation	$3,300
6.	60% Design Drawings	$3,200
7.	90% Design Drawings	$900
8.	Drainage Channels for 600 West	$1,000
9.	Technical Specifications	$1,300
10.	Estimate of Construction Cost	$800
11.	Contract Documents	$1,100
12.	100% Bid Set	$1,800
13.	Help with Bidding	$1,300
14.	Attend Preconstruction Meeting	$700
15.	Answer Questions During Construction and Field Changes	$2,000
16.	Construction Staking	$3,000

Option 1 Total = $27,700

Option 2 – Reduced Scope of Services & Estimated Fee

Scope of Services

1. Coordination Meetings
2. Topographical Survey and Map
3. 90% Drawings, Bid Items, and Quantities
4. Special Provisions
5. Final Drawings, Bid Items, and Quantities
6. Attend Preconstruction Meeting
7. Answer Questions During Construction & Field Changes

Assumptions

1. This option includes two coordination meetings, including at kickoff and 90% design review.
2. This option includes up to 8 hours for answering questions during construction and field changes.
3. This option does not include hydraulic or drainage calculations but will utilize a drainage section that will fit within the area available.

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4. This option assumes that the City will have the area blue-staked and that the as-marked information will be collected during the topographical survey. This will replace the utility investigation.
5. This option does not include a geotechnical investigation. Pavement cross sections already used in the project area will be utilized.
6. This option assumes that the City will prepare the bidding documents and bid the project.
7. This option assumes that the work will be kept within existing fences. This will replace the right- of-way review.
8. This option assumes construction staking will be provided by the contractor.
9. This option assumes that the contractor will prepare the SWPPP.
10. This option does not include environmental reports or permits.
11. This option does not include design of power, water, waste water, storm drain, communication lines, or gas.
12. This option does not include construction observation services.
13. This option does not include retaining wall design.

Estimated Fees

1.	Coordination Meetings	$700
2.	Topo Survey and Map	$1,800
3.	90% Drawings, Bid Items, and Quantities	$2,900
4.	Special Provisions	$900
5.	Final Drawings, Bid Items, and Quantities	$1,800
6.	Attend Preconstruction Meeting	$700
7.	Answer Questions During Construction	$1,100

Option 2 Total = $9,900

We appreciate our ongoing working relationship with Ivins City and look forward to future efforts together. As noted previously, we're ready to deliver either of the options outlined herein or a hybrid of the two at the City's pleasure. Please call me at (435) 652-8450 with any questions.

Sincerely,



Marv Wilson, P.E.
Principal Engineer
mwilson@sunrise-eng.com



SUNRISE ENGINEERING

TECHNICAL PROPOSAL

200 West Sewer Diversion & Lower Tuacahn Wash Line Improvements

Ivins City

December 11, 2018

SUNRISE ENGINEERING

11 North 300 West, Washington, UT 84780
TEL 435.652.8450 | FAX 435.652.8416 | sunrise-eng.com

December 11, 2018

Tom Jorgensen, P.E.
Asst. Public Works Director, Ivins City
tjorgensen@ivins.com

Re: RFP for Engineering Services for design – Gap Fill Projects 600 West and 200 East

Dear Tom and Selection Committee Members,

Thank you for this opportunity! We feel we have developed a good relationship with the City of Ivins and have shown that together we will provide the City with an excellent level of service and engineering quality for your 200 West Street Sewer Diversion Project and the Lower Tuacahn Wash Sewer Improvement project.

You know us, you have worked with most of our team, and we have the experience. Within the attached proposal you can find the details of our company (some may surprise you) and a multitude of reasons why we are the best selection to complete these projects. You will find a few of those points below to highlight a few qualifications that help differentiate our company from the competition:

- **Expert Team:** We have assembled a great team that has successfully completed the predesign, design and construction administration of water and wastewater in southwest Utah for over 20 years.
- **Area Familiarity:** We have worked in the Santa Clara/Ivins area for over two decades. We are familiar with the Lower Tuacahn Wash and have done projects in and around it. I raised my family near the middle of that stretch of the wash. I personally know many of the land owners along the south side of the wash alignment.
- **Cost & Efficiency:** Through lessons learned in the design of many water and wastewater improvements projects for more than 2 decades, our Team has developed a reputation in design and construction plans that give the client a better price and bid because the contractors know and trust our plans.

Sunrise Engineering is not only committed to this project, but to continuing our relationship with Ivins City. We believe we can work well together to develop an efficient, quality solution for you. Based on our staff size and current workload we have the ability to proceed without delay. All the key personnel identified in this proposal are available and committed to exceeding your expectations. We respectfully request your support in our selection and look forward to working with you. Should you have questions, please contact me at 435.652.8450.

Sincerely,

Marv Wilson, P.E.
Principal Engineer
mwilson@sunrise-eng.com



Sunrise Introduction

Sunrise Engineering collaborates with its clients to develop solutions that work well within their project requirements. The result is an optimum balance of cost and operational performance. The majority of our work continues to be performed for repeat clients. These continuing relationships are a reflection of our clients' trust and satisfaction.

Our firm was established in 1978 and is acknowledged as a regional leader for professional engineering and consulting services. Our multi-disciplinary practice serves both public and private clients in a diverse range of projects across the western United States. We have established a reputation for budgetary responsibility and engineering excellence, as evidenced by our receipt of the PSMJ National Client Satisfaction Award for eight consecutive years.

For the past 40 years, Sunrise has been led by an Executive Management Team who shares responsibility for the vision and operation of the firm. Their ability to work together and lead by example has brought continued success. Our current staff includes 330 people, 47 of which are licensed engineers with a broad range of experience and diversity of interests. They are licensed to practice in 17 states.

Sixteen Sunrise offices throughout Utah, Wyoming, Arizona, Colorado, and Nevada provide engineering and related services including:

PRIMARY OFFICE

Washington, Utah

11 North 300 West
Washington, Utah 84780

Tel: 435.652.8450

ADDITIONAL SUNRISE OFFICES

Fillmore, UT 435.743.1118
Star Valley, WY 307.885.8500
Cache Valley, UT 435.563.3734
Payson, AZ 928.768.8609
Vernal, UT 435.789.7364
Phoenix, AZ 480.768.8600
Salt Lake City, UT 801.523.0100
Tucson, AZ 520.274.3900
Richfield, UT 435.689.0299
Prescott, AZ 928.277.8440
Utah County, UT 801.704.5220
Las Vegas, NV 702.830.9180
Cedar City, UT 435.867.8834
Fort Collins, CO 970.372.2255
Cheyenne, WY 307.775.9500

CIVIL/MUNICIPAL SERVICES
- Wastewater Systems
- Water Systems
- Water Resources
- City Engineering
- Transportation
- Hydrology and Hydraulics

ENVIRONMENTAL AND ENERGY
- Hydroelectric Design
- Mining Services
- Geotechnical
- Environmental
- Renewable Energy

SURVEY AND GIS
- Construction Survey
- Boundary Survey
- Mapping
- Asset Management Systems
- Spatial Analysis

ELECTRICAL ENGINEERING
- Facility Design
- Transmission
- Substation
- Instrumentation and Controls
- SCADA
- Cathodic Protection

FUNDING ACQUISITION

PARKS AND RECREATION
- Trails and Natural Areas
- Playgrounds and Skate Parks
- Pavilions and Buildings
- Site and Grading Design
- Utility Infrastructure

STRUCTURAL ENGINEERING
- Residential and Commercial
- Structural Plan Review
- Industrial/ Oil & Gas
- Water and Wastewater
- Civil Structures
- Parks and Rec Structures

WATER RIGHTS
- 40-yr Management Plan
- Change Application Preparation
- Water Right Application Analysis
- Water Inventory Management Report
- Current Water Parcel Search
- Water Right Acquisition

SITE DEVELOPMENT
- Single Family Residential
- Multi-Family Residential
- Commercial
- Institutional

CONSTRUCTION ADMINISTRATION

Our clients can depend on us to carefully administer projects from conceptualization through construction administration. For a more detailed description of our company, please visit our website at **www.sunrise-eng.com.**

Project Approach

Sunrise Engineering has always endeavored to complete projects in a manner and fashion that prove to be our best advertisement for doing our client's next project. We take great care in making sure our clients are satisfied with the work we do for them. Client satisfaction is in our DNA; our mission statement is to "Create solutions that work and relationships that last". Our mission permeates through all levels of our operations and our consulting work; from predesign, design, bidding, construction, and closeout.

One way to show that is through our approach to the work; it always includes regular communication and we commit to do that with Ivins City as well. We understand that the best technical solution may not be the best solution according to Ivins City; as there could be other non-technical or non-monetary factors that are more important to the City and residences. Except for a few minor changes listed for the specific projects below, we plan to follow the Scope of Services as outlined by the RFP; however, we will consult with the City to confirm and make any adjustments needed:

200 West Sewer Diversion Project:

This project is pretty straight forward, and Sunrise has completed many projects very similar to it. Our experience has shown that a key to a successful design is having a complete and thorough topographic survey including the manhole inverts, visible utilities and other hardscapes along the corridor. We understand the need to design the 400 South intersection for the expected future grades which will require a storm water inlet structure design on the North side of the intersection and may require a lowering of the grade.

Items worthy of special attention include:

- Stormwater runoff, including the inlet structure on 400 South and borrow ditches along 200 W.
- Road repair along 200 West after installation of the 10" sewer
- Curb, gutter, sidewalk and landscaping of common area from about 500 S to about 700 S.
- Traffic Control for
  - Park on 400 South
  - Residences along 200 West

Lower Tuacahn Wash Line Improvements Project:

The Tuacahn Wash project has a considerable amount of unknowns and potential "fun" challenges. Marv lived near the alignment of the "gully" as his family called it for over 14 years. He knows many of the residents and property owners along that route as well as some of the soils and topographic challenges. We have a fantastic relationship with the City of Santa Clara and can use that relationship to the projects advantage. We have talked with Jack Taylor and he has expressed Santa Clara City's support for the project.

We would use our knowledge of the area along with the information provided by Ivins to provide the appropriate direction and results for the project.

Items worthy of special attention include:

- Easements and rights-of-ways
  - Access points:
    - Sandy Cove
    - Tamarack Trail
    - Sand Hollow Dr.
    - Arboretum Parking lot
    - Little League Dr.
- Lava Flow Trail
- Repair of manholes
  - Raising and/or Sealing manholes along floodplain to mitigate inflow. If sealed, hydrogen sulfide gas degradation of manhole.
- Feasibility of contiguous trail/access road through meandering flowline and adjacent hillsides from arboretum to Tamarack Trail access point.
- Prescriptive easements from private property owners.
- Work within the "gully" can be precarious because of high groundwater, liquefaction potential in sandy areas and difficulty in blue clay areas.

Key Personnel

The key personnel assembled below have a long history of completing projects together. Each of the team members shown below will be available to perform the necessary duties and tasks associated with Ivins City's projects. The workload of this team is such that they are able to commit to meeting your project schedule. Each member of the team has demonstrated dedication on previous projects when it comes to going the extra mile and doing what it takes to finish projects on time and with high quality. Sunrise Engineering also has several offices in Utah that can provide additional professional resources if a particular project or deadline requires additional support.

IVINS CITY

CHUCK GILLETTE
Public Works Director



MARV WILSON, PE

Principal In Charge



STEVE HALL, PE

Project Manager



DUSTYN SHAFFER, PE

QA/QC

SEWER DESIGN



STEVE HALL, PE

Project Engineer



NATE WALLENTINE, EIT

EIT

ACCESS/ROW DESIGN



RICK SNYDER, PE, PLS

Project Engineer, Surveyor



TOM NISSON, EIT

EIT

SUPPORT TEAM



DON LEONARD

CAD Specialist



ANDY BROWN

Construction Observation

LANDMARK TESTING & ENGINEERING

Geotechnical

Firm Experience



REFERENCE
Kirk Klotz
435.634.5849

ST. GEORGE FIELDS WASTEWATER TRANSMISSION PIPELINE

St. George, Utah

This project consisted of constructing a wastewater transmission line beginning near the intersection of 3000 East and the Washington Canal and running north along 3000 East eventually tying into the regional wastewater line along the Virgin River. The new line consists of approximately 15,700 lineal feet of gravity sewer pipe, sizes 8-24 inch in diameter; manholes; trench surface restoration; and other related work items, comprising a complete wastewater transmission line.

The design process was complicated by extremely flat terrain and various right-of-way issues. Construction management required coordination with numerous developers who were waiting to tie into the system. The construction process presented many challenges due to high ground water and deep trenches.



REFERENCE
Lester Dalton
Public Works Superintendent
435.656.6318

WASHINGTON CITY URIE DRIVE WASTEWATER PROJECT

Washington City, Utah

Sunrise provided design and construction engineering to replace wastewater collection lines and manholes in and near Urie Drive, including Urie Drive from Magnum to Bulloch; a section of Pectol St.; and a section of Bulloch Drive. The project included new PVC pipe to replace the old clay pipe and connect to existing manholes and service connections. Sunrise coordinated utilities to mitigated conflicts while improving sewer grades.



REFERENCE
Mike Chandler, PE
Superintendent
435.635.2348

LAVERKIN 300 WEST ROAD & WASTEWATER LINE

LaVerkin, Utah

Sunrise provided engineering services for LaVerkin City to rehabilitate 300 West Street, add curb and gutter, and provide sidewalk on the west half of the road. Ash Creek SSD maintains an aging wastewater line within the 300 West corridor.

To avoid cutting the road for a future wastewater line replacement, Ash Creek SSD retained Sunrise to also provide engineering design and construction of a new wastewater pipeline. Sunrise coordinated with Ash Creek, LaVerkin City, and the many utilities found in the corridor to provide engineering design and construction drawings for the gravity sewer.

Firm Experience



REFERENCE
Chuck Gillette
City Engineer
435.634.0689

IVINS CITY ROAD RECONSTRUCTION

Ivins, Utah

The City of Ivins contracted with Sunrise Engineering to provide design and construction administration services in support of their 400 South Block Street Improvements Project. Sunrise provided field survey and TOPO mapping. Sunrise coordinated with Applied Geotechnical Engineering Consultants to provide soils testing and pavement design.

The design implemented the latest software to prepare typical road sections and plans, including traffic and street lighting, development of roadway drainage design to tie to existing facilities, and to incorporate existing utilities into the plan sheets. Sunrise assisted in right-of-way documentation and utility coordination. Sunrise also provided bidding & construction documents in accordance with the CDBG funding for the project as well as assistance in bidding and construction administration.



REFERENCE
Jack Taylor
Public Services Director
435.656.4690

SANTA CLARA HEIGHTS WATER IMPROVEMENTS

Santa Clara, Utah

Santa Clara City has seen periods of extremely high and relatively low growth and understands the importance of maintaining an updated culinary water master plan to reflect current conditions and future conditions based upon development. Sunrise has been involved with various types of planning projects over the past 20 years. These projects include preparation of culinary water master plans, capital improvements and facilities plans, impact fee analyses, and corresponding updates on a consistent basis.

The plans that Sunrise has prepared for the City considers current growth and absorption rates that are based upon the existing land use data and potential annexation areas, capacity of the existing water system, recommendations for system improvements, and financial analyses. The plans have been used as a road map for both existing and future improvement s to the City's culinary water system.



REFERENCE
Michael D. Shaw
Public Works Director
435.656-6317

2000 SOUTH AND SANDIA ROAD IMPROVEMENTS

Washington City, Utah

Sunrise was contracted by the Washington City, Utah to provide design and consulting services for road improvements to 2000 South and Sandia Road. Sunrise prepared preliminary plans for the road surface to be pulverized, graded, compacted, and resurfaced. A striping plan was determined and upon approval from the City, the final design and opinion of probable cost were prepared. Sunrise assisted the City with the bidding process and provided construction administration as the project went underway.

The work consisted of the overlay of approximately 318,900 square feet of roadway, 140 lineal feet of concrete drainage trench, and the complete reconstruction of approximately 6,400 square feet of roadway. All associated restriping, drainage crossings, curb & gutter, asphalt removal, grading, and compaction were all included as part of the project.

Scope of Work

Project Schedule
See chart showing estimate time for design under 6 months.

Coordination Meetings
SEI will plan on a kickoff meeting and regular progress meetings to review project progress, to coordinate design efforts, to address issues that arise, and to keep the City informed.

Collect and Review Existing Information
SEI will determine the information required to complete the project. The City will provide copies of relevant previous studies and planning information, City GIS utility information, digital copies of aerial photography, etc.

Site and Utilities Investigation
- SEI will be responsible for visiting the site and conducting investigations to identify existing utilities and other site information pertinent to the design.
- SEI will perform the design/topographic survey for the project.

Right of Way (ROW)/Easement Investigation and Acquisition
- SEI will investigate ROW/easements necessary. The City anticipates that the work done on the existing facilities in the Tuacahn Wash can be done within existing ROW/easements, but the access road(s) may require additional ROW/easements. We assume that no additional ROW/easements will be necessary to design/construct the 200 West sewer diversion line.
- SEI will assist the City in acquiring necessary ROW/easements for the project, which may include, but not be limited to, property research, writing legal descriptions, coordinating with appraiser, negotiations with property owners, writing property deeds, etc. Since these items are relatively unknown we suggest performing them as an "additional services".

Storm Water Pollution Prevention Plan
The SWPP was removed by addendum.

Design Drawings
SEI will provide 60% and 100% design sets for review by the City. Review comments will be addressed in a final design drawing set.

Technical Specifications
SEI will provide technical specifications for the project for review at the 100% design stages. Review comments will be addressed in final technical specifications.

Contract Documents
SEI will prepare final bid documents for the project, including final design drawings, technical specifications, and standard City bid documents and contract conditions.

Construction Cost Estimate
The Consultant shall prepare an engineer's opinion of probable cost for the construction of the project.

Permits
As identified by addendum no stream alteration permit is required. A permit to work in Santa Clara will also be necessary but it is anticipated that the Contractor will be responsible for that as any permit directly associated with construction will be the responsibility of the construction contractor.

Bid Period Services
- The 200 West Sewer Diversion and the Lower Tuacahn Wash Line Improvements projects will likely be bid separately.
- Include bidding out camera work to identify the scope of repair.
- SEI will assist the City in preparing a bid advertisement for the project, providing bid documents, holding a pre-bid meeting, and providing any needed addenda during the bid period.
- SEI will assist the City in evaluating the bids received for the project and recommending award of the project.

Pre-construction Meeting
SEI will prepare for and conduct a pre-construction meeting with the City and the Contractor.

Construction Progress Meetings and Support Services
- SEI will provide the following: submittal review; response to Contractor requests for information; review of and make recommendations regarding change order requests; review of pay applications for the duration of the construction period; and conduct project closeout at completion of the work.
- The Consultant will prepare for and attend weekly construction progress meetings.

Construction Observation
- SEI is planning on the recommended number of hours of construction observer services during construction of the project of 160 hours of inspection time for the 200 West Project and 120 hours of inspection time for the Tuacahn Wash Project. It is assumed that a public works inspector from Ivins City will be available to assist the consultant with the construction services.
- SEI will provide an inspection with the contractor and the City at substantial completion, final completion, and just prior to warranty expiration and prepare and deliver to Ivins a written list of observed deficiencies.

Project Documentation
- The Consultant will use redlined drawings provided by the Contractor to develop contract record drawings for the project.
- The Consultant shall assist the City in closing out the project.

EXCLUSIONS AND ASSUMPTIONS

200 West Sewer Diversion
- Technical Specifications and Contract Documents will be similar for both contracts.
- *Permits:* None required
- *Bid Period Services:* Includes no more than 12 hours of engineering time to field contractor questions, issue addenda, etc., between the prebid tour and the bid opening.
- *Construction Observation:* If project goes over 160 hours then a change in contract will be granted accordingly.

Lower Tuacahn Wash Sewer Improvements
- Coordination meetings from 200 W Project can be correlated so that they are back-to-back to help with efficiency.
- *Right of Way (ROW)/Easement Investigation and Acquisition:* We have assumed that all access points to the sewer line in question are either owned by the City of Santa Clara and that they will deal favorably with the project or have long term usage across the properties to constitute a prescriptive access. One possible exception could be the Kent Frei property owned off Canyon View Dr in Santa Clara. Minimal effort is planned for this scope, but it could blossom into a much greater effort depending on final scoping with Ivins, and the demeanor of the individual property owners.
- *Permits:* None required
- *Bid Period Services:* Includes no more than 10 hours engineering time for coordination and facilitating the retaining of a company to camera the pipe. Includes no more than 12 hours of engineering time to field contractor questions, issue addenda, etc., between the prebid tour and the bid opening.
- *Construction Observation:* If project goes over 120 hours, then a change in contract will be granted accordingly.

Scope of Work

CLASS	DESCRIPTION	RATE
102	Engineer Intern (E.I.T.) II	$105.00
104	Engineer IV	$149.00
105	Engineer V	$169.00
110	Principal Engineer	$190.00
352	Construction Observer II	$85.00
404	CAD Drafter IV	$101.00
604	GIS Specialist	$95.00
53	Administrative III	$72.00
935	One Man Survey Crew	$140.00
-	Geotech (Landmark)	$2,500

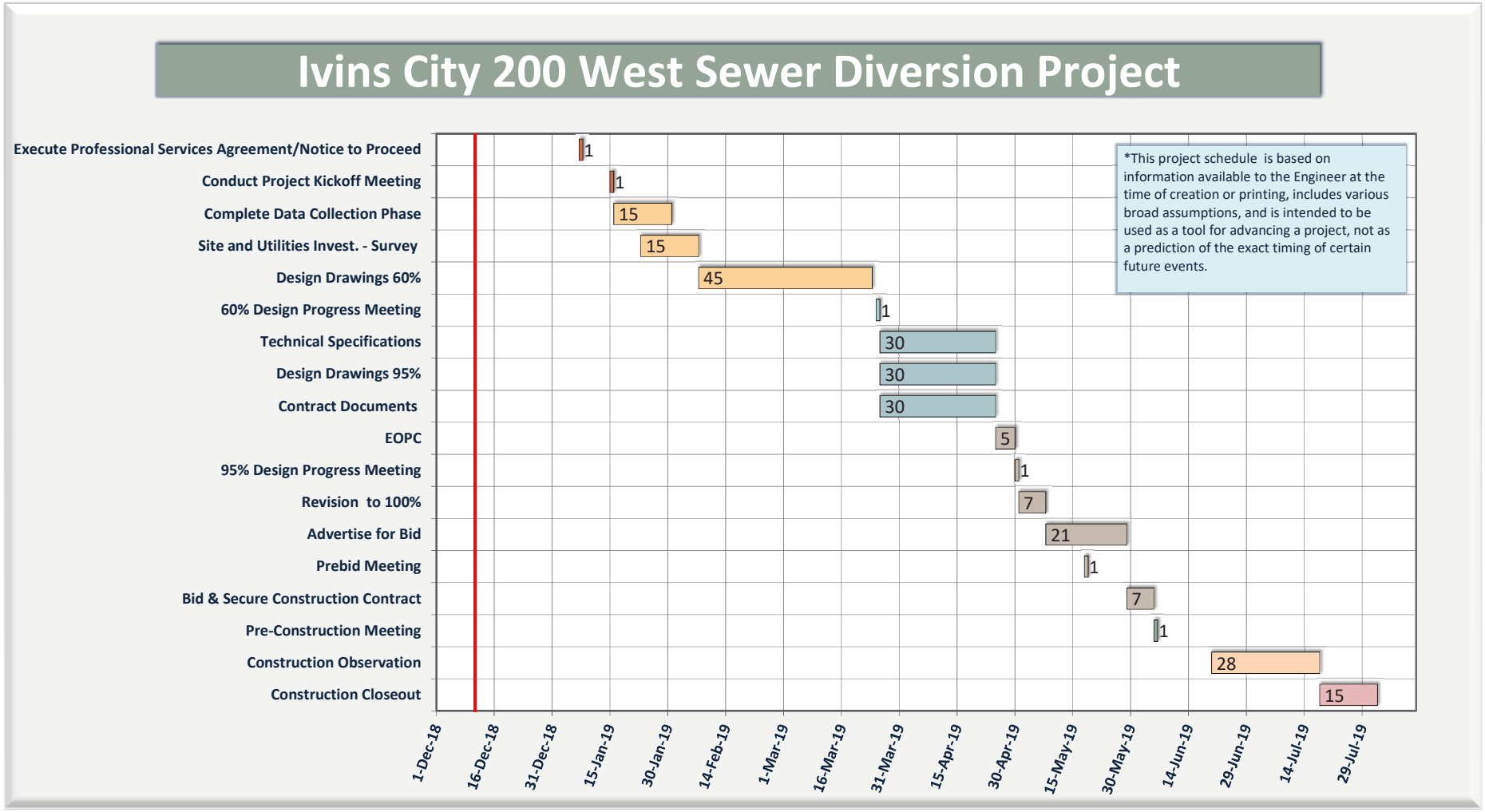
Man-Hour Breakdown - 200 West Sewer Diversion Project

Task Description		Hours
Coordination Meetings- Kickoff and Progress During Design		34
Review & Gather Data (Docs, GIS)		12
Site and Utilities Invest. - Survey		34
Design Drawings		72
Tech Specs		13
Contract Doc		21
EOPC		19
Bidding		18
Pre-Construction Meeting		13
Progress Meetings		29
Submittal, CO's, Pay Requests, etc.		41
Construction Observation		160
Construction Observation - Substantial Completion, Final Completion, & 1yr Warranty Inspections		24
CRD's		33
Total		**523**

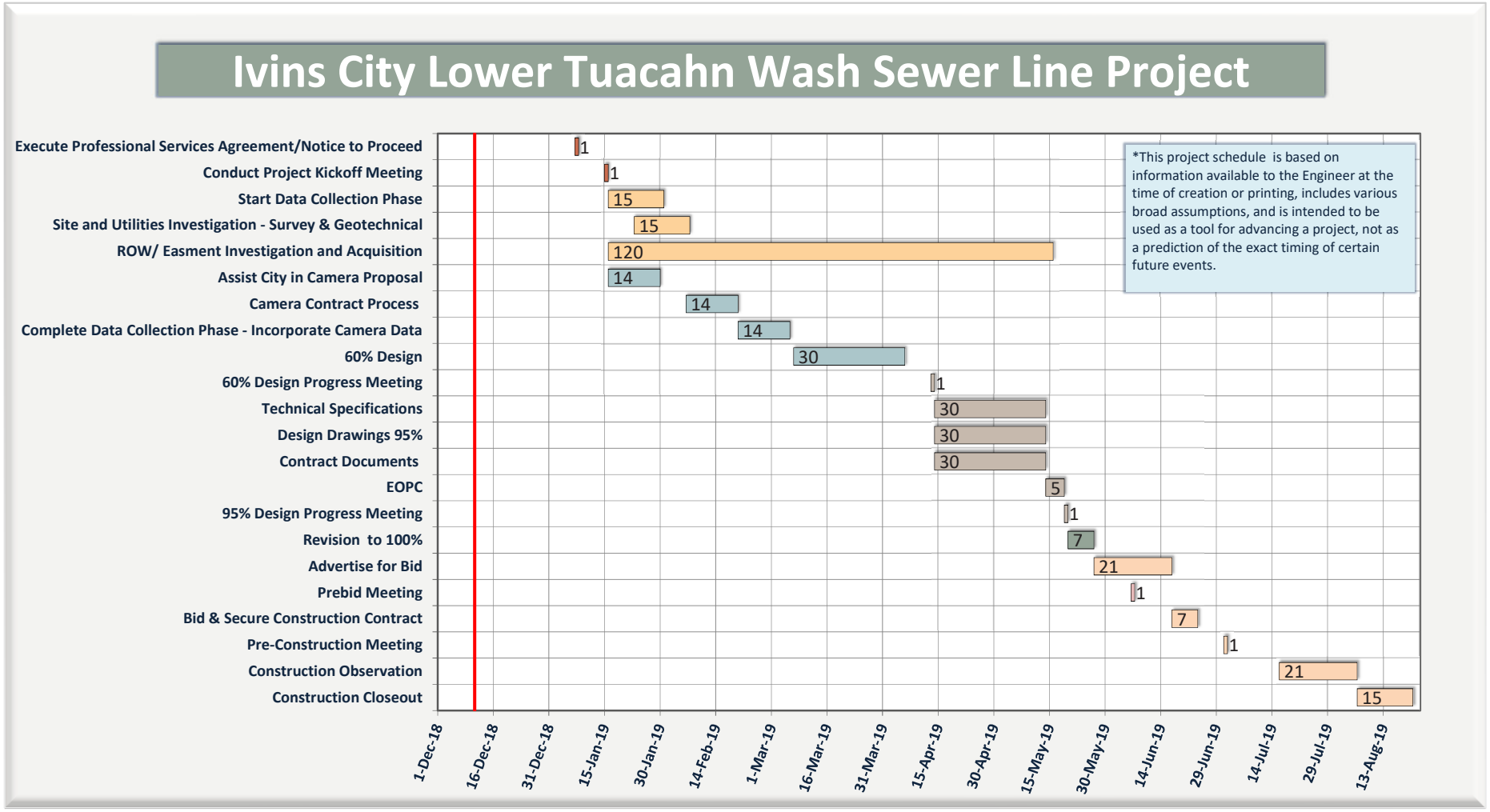
Man-Hour Breakdown - Lower Tuacahn Wash Sewer Line

Task Description		Hours
Coordination Meetings- Kickoff and Progress During Design		22
Review & Gather Data (Docs, GIS)		12
Site and Utilities Investigation - Survey & Geotechnical		29
ROW/ Easement Investigation and Acquisition		24
Assist with Camera Proposal and Coordination of Project		12
Design Drawings		52
Tech Specs		4
Contract Doc		13
EOPC		17
Bidding		18
Pre-Construction Meeting		13
Progress Meetings		17
Submittal, CO's, Pay Requests, etc.		22
Construction Observation		120
Construction Observation - Substantial Completion, Final Completion, & 1yr warranty Inspections		24
CRD's		11
Total		**410**

Project Schedule - 200 West Sewer Diversion Project



Project Schedule - Lower Tuacahn Wash Sewer Line



Key Personnel - Resumes

TAB A

Marvin Wilson, PE

Marv has served in principal roles in the development, design, and implementation of numerous civil and environmental engineering projects. As Vice President, Marv now spends much of his time assisting newer engineers produce quality deliverables for various clients and serving as a QA/QC whom clients can call for an immediate and direct link to senior corporate management. Marv's track record has been one of commitment and service to many communities in the region.

Project Experience

WATER STORAGE TANK PROJECTS

- Ivins Cliff Rose 2.0 MG Tank
- Washington City Warner Ridge 1.0 MG Tank
- Washington City East Ridge 1.0 MG Tank
- Santa Clara Snow Canyon 2.5 MG DYK Tank
- Santa Clara South Hills 1.0 MG Tank
- Washington City Red Cliffs 2.3 Tank
- Washington Dam Road 2.0 MG Tank
- Washington City Red Cliffs 2.0 MG Tank
- Washington Red Cliffs 1.0 MG Tank
- Herriman 5.0 MG Tank
- Herriman Zone 1 East 2.0 MG Tank
- Ogden North Storage 4.0 MG Tank
- Ogden North Storage 1.0 MG Tank
- Payson Dual 2.5 MG Tanks
- Springdale 1.0 MG Tank
- Orderville 0.5 MG Tank
- Orderville 0.4 MG Tank
- Stansbury 3.0 MG Tank
- (8) Kane County Water District Tanks 0.15 MG to 0.5 MG

MASTER PLANNING PROJECTS

- Santa Clara Culinary Water Master Plans, 1995-2018
- Santa Clara Culinary Water Master Plan Update
- Washington City Culinary Water Master Plans, 1993-2018
- Tridell-Lapoint Water Master Plan
- Dixie Deer Special Services District Culinary Water Improvements
- Kanarraville Culinary Water Master Plan
- LDWA Culinary Water Master Plan
- Parowan Culinary Water Master Plans
- LaVerkin Culinary Water Master Plan
- Springdale Culinary Water Master Plan
- Centerfield Culinary Water Master Plan Update
- Hildale/Colorado City Water Master Planning
- Fredonia Culinary Water Master Plan
- Enterprise City Culinary Water Master Plans
- Paragonah Culinary Water Master Plans
- KCWCD Duck Creek to Long Valley Culinary Water Master Plans

CULINARY WATER PROJECTS

- Washington Grapevine Wash Well II
- Santa Clara South Hills Transmission Line
- Washington Membrane Filtration Plant

STORM WATER PROJECTS

- Tuacahn Wash Detention Pond Dam
- Big Water Road & Drainage Improvements
- Tom's Canyon Flood Prevention

WASTEWATER PROJECTS

- Washington City Wastewater Improvements
- Fairview City Wastewater Treatment Facility and Collection System
- Enterprise Wastewater Improvements

TRANSPORTATION PROJECTS

- Telegraph Road Widening and Improvements
- Ivins City Road Reconstruction
- Indian Hills Drive
- Santa Clara Pioneer Parkway

PARKS AND RECREATION PROJECTS

- Santa Clara Lava Flow Trail
- St. George Sand Hollow Wash Trail
- SUU Tennis Court Reconstruction
- Little Valley Pickleball Facility
- Meadow Valley Wash Shared Use Trail



MARV WILSON, PE
PRINCIPAL IN CHARGE

EDUCATION
B.S. in Civil Engineering,
Utah State University

YEARS IN PROFESSION
31 years; 31 years with Sunrise

REGISTRATIONS
Professional Engineer:
- Utah No. 176874-2202
- Arizona No. 29750
- Nevada No. 013197

MEMBERSHIPS
- American Public Works Association (APWA)
- American Society of Civil Engineers (ASCE)

Steve Hall, PE

Steve has extensive water modeling experience and is the water modeling expert in our office. He has created and maintained the water models for a large number of communities in Southern Utah and Nevada including large and complex models in Washington City, Santa Clara City, and Hildale/Colorado City. His involvement with the modeling in Capital Improvements Plans has translated to the design and construction of several major culinary water improvements projects.

Steve has created, manipulated, or maintained the water models for a number of communities in Southern Utah and Nevada including large and complex models for Washington City, Santa Clara City, and Hildale/Colorado City.

Project Experience

WATER STORAGE TANK PROJECTS
- Ivins Cliff Rose 2.0 MG Tank
- Washington City Red Cliffs #2 2.0 MG Tank
- Virgin Valley Water District Airport Tank Reconditioning

MASTER PLANNING AND CAPITAL IMPROVEMENT PROJECTS
- Ivins City Parks and Trails Master Plan
- Washington City Culinary Water CIP
- Washington City Secondary Water Master Plan
- Washington City Wastewater Master Plan Update
- Santa Clara City Culinary Water CIP
- Santa Clara Storm Water Master Plan Update
- Springdale Culinary Water Master Plan
- Hildale City/Town of Colorado City Culinary Water CIP
- LaVerkin City Culinary Water CIP
- Big Water Culinary Water Master Plan
- Colorado City Water Master Planning
- Colorado City Wastewater Master Plan
- Dixie Deer Water Master Plan
- Parowan City Culinary Water CIP
- Diamond Valley Acres Water Company Culinary Water CIP
- Minden Town Culinary Water Master Plan

MUNICIPAL/DISTRICT ENGINEERING
- Washington City Miscellaneous Engineering Services
- Santa Clara City Miscellaneous Engineering Services
- Dixie Deer SSD Miscellaneous Engineering Services

CULINARY WATER PROJECTS
- Washington City East Regional Connection Culinary Water Improvements
- Washington City In-Town Culinary Water Improvements
- Washington City Red Cliffs Culinary Water Transmission Line

WASTEWATER PROJECTS
- Enterprise Wastewater Improvements
- Industrial Park Wastewater Line
- Kane County Water Conservancy District Duck Creek Wastewater I



STEVE HALL, PE
PROJECT MANAGER

EDUCATION
B.S. Civil Engineering,
Brigham Young University

M.E. Civil Engineering,
Colorado State University

YEARS IN PROFESSION
10; 10 with Sunrise

REGISTRATIONS
Professional Engineer:
- Utah No. 8328781

MEMBERSHIPS
- American Society of Civil Engineers (ASCE)

AWARDS
- APWA 2015 Public Works Project of the Year (Southern Utah Branch Utah Chapter) for Washington City East Regional Culinary Water Improvements

Dustyn Shaffer, PE

Dustyn has been involved in design and construction of numerous engineering projects in Southern Utah and surrounding areas. He has over 20 years of experience in municipal engineering, including water, wastewater, transportation, project funding, and master planning. Dustyn is currently the Service Center Manager for Sunrise Engineering's Washington Office.



DUSTYN SHAFFER, PE
QA/QC

EDUCATION
B.S. Civil Engineering,
Utah State University

YEARS IN PROFESSION
20 years; 20 with Sunrise

REGISTRATIONS
Registered Professional Engineer:
- Utah No. 343921
- Arizona No. 38923
- Nevada No. 019946

MEMBERSHIPS
- American Society of Civil Engineers (ASCE)
- American Public Works Association (APWA)

WATER STORAGE TANK PROJECTS
- Ivins Cliff Rose 2.0 MG Tank
- Washington City Red Cliffs #2 2.0 MG Tank
- Roark Estates HOA Tank
- South Hills Tank and Transmission Line
- Virgin Valley Water District Flat Top Tank Replacement
- Kayenta 1.0MG Concrete Tank
- Moapa Valley Water District Overton Tank Refurbishment

MASTER PLANNING PROJECTS
- Washington Culinary Water Master Plan
- Washington Wastewater Master Plan
- Springdale Culinary Water Master Plan
- Dixie Deer Special Service District Culinary Water Master Plan
- Fredonia Culinary Water Master Plan
- Fredonia Wastewater User Rate & Impact Fee Analysis
- Santa Clara Water User Rate Analysis
- Washington Telegraph & Green Springs Intersection Study
- Enterprise Culinary Water Master Plan

MUNICIPAL/DISTRICT ENGINEERING
- Washington City Municipal Engineering Services
- Kane County Water Conservancy District Engineering Services
- Springdale Town Municipal Engineering Services

CULINARY WATER PROJECTS
- Washington Red Cliffs Pipeline
- Washington Grapevine Well No. 2
- Washington Membrane Filtration Treatment Plant

STORM WATER PROJECTS
- Tuacahn Wash Detention Pond Dam
- Big Water Road & Drainage Improvements
- Tom's Canyon Flood Prevention

WASTEWATER PROJECTS
- Washington Fields Wastewater Pipeline
- Hildale /Colorado City Wastewater Treatment and Transmission Project
- Washington Mill Creek Wastewater Line Upgrade

TRANSPORTATION PROJECTS
- UDOT SR-212; Telegraph St. Reconstruction
- Indian Hills Drive Improvements
- Snow Park Frontage Road

PARKS AND RECREATION
- Washington Mill Creek Trail Project
- Springdale SR-9 Trail & Pipeline Project
- Zion National Park Miscellaneous Engineering Services

Nate Wallentine, EIT

Nate has ample experience with culinary improvement projects. He has been involved in the design, funding, and administration of these projects. He has also worked extensively on model water systems and creating culinary water capital improvement plans. In addition, Nate has designed roadways and curb/gutters.

Project Experience

CULINARY WATER PROJECTS
- Moapa Valley Water District Swapp Drive Transmission Line
- Moapa Valley Water District Gubler Drive Transmission Line
- Moapa Valley Water District Yamashita Drive Transmission Line
- Pioche Booster Pumps
- Pioche Castleton Water Transmission Line
- Red Hawk Drive Distribution Line
- Springdale Water Treatment Plant
- Red Cliffs 2MG Tank
- Virgin Valley Water District Kitty Hawk Drive Pipeline

MASTER PLANNING AND CAPITAL IMPROVEMENT PROJECTS
- Santa Clara Culinary Water CIP
- Paragonah Culinary Water CIP
- Summit Culinary Water CIP

MUNICIPAL/DISTRICT ENGINEERING
- Washington City Miscellaneous Engineering Services
- Kane County Water Conservancy District Miscellaneous Engineering Services
- LaVerkin City Miscellaneous Engineering Services

WATER MODELING
- Kane County Water Conservancy District Duck Creek Wastewater I

TRANSPORTATION
- Cedar Highlands Road Design
- Red Hawk Road, Curb, and Gutter Design



NATE WALLENTINE, EIT
EIT

EDUCATION
B.S. - Civil Engineering,
Utah State University

M.E. - Civil & Environmental Engineering,
Utah State University

YEARS IN PROFESSION
1; 1 with Sunrise

Rick Snyder, PE, PLS

Rick has experience in the Land Surveying and Civil Engineering field dating back to 1999. His experience with Sunrise Engineering includes transportation projects including new road design, road reconstruction and improvement design, intersection design, and signal design. His experience also includes drainage projects, residential developments, commercial developments, industrial developments, parks and trails projects, agricultural projects, surveying and right of way projects. His responsibilities include engineering design, project management and construction administration.

WATER STORAGE TANK PROJECTS
- Ivins Cliff Rose 2.0 MG Tank
- South Hills Tank and Transmission Line
- Virgin Valley Water District Flat Top Tank Replacement
- Ogden North Storage

MASTER PLANNING PROJECTS
- Washington Wastewater Master Plan
- Lincoln County Alamo Industrial Park Master Plan
- Coyote Springs GID Roads Capital Improvement Plan
- Dixie Deer Special Service District Culinary Water Master Plan
- Santa Clara Transportation Master Plan
- Springdale Culinary Water Master Plan
- Springdale Wastewater Master Plan

MUNICIPAL/DISTRICT ENGINEERING
- City of Caliente Municipal Engineering Services
- Coyote Springs General Improvement District Engineering Services
- Lincoln County General Engineering Services

CULINARY WATER PROJECTS
- Springdale Culinary Water Improvements
- Santa Clara Heights Water Improvements
- Dixie Deer Special Services District Culinary Water Improvements

STORM WATER PROJECTS
- Hyde Park 2017 Storm Water Projects
- Panaca Edwards Street Storm Water Control
- Big Water Road and Drainage Improvements

WASTEWATER PROJECTS
- Washington Fields Wastewater Transmission Line
- 3650 South Wastewater Line
- Duck Creek Wastewater Phase I

TRANSPORTATION PROJECTS
- St. George City Diagonal and Bluff Street Intersection Project
- St. George City Snow Park Frontage Road
- Washington City/UDOT Telegraph Road Conceptual Planning and Construction Engineering
- Washington City Middleton Drive Widening and Traffic Signal
- Ivins City 400 South Block Street Improvements Project

PARKS AND RECREATION
- St. George City Firehouse Park
- SUU Tennis Courts Rebuild Project
- Santa Clara Cemetery Expansion



RICK SNYDER, PE, PLS
PROJECT ENGINEER, SURVEYOR

EDUCATION
B.S. - Civil Engineering,
University of Utah

YEARS IN PROFESSION
13; 12 with Sunrise

REGISTRATIONS
Registered Professional Engineer:
- Utah No. 5569330
- Nevada No. 023632
- Arizona No. 60568

Professional Land Surveyor
- Utah No. 5569330
- Nevada No. 023632

PROFESSIONAL INVOLVEMENT
- President Elect of the Southern Utah Branch of the American Public Work Association
- Member of the Institute of Transportation Engineers
- Member of the University of Utah Chapter of Chi Epsilon

Tom Nisson, EIT

Tom has experience with master planning and engineering design. He also has experience with plan reviews, permitting, and design standards. He has been involved in 50 municipal projects in the past year.

Project Experience

WATER STORAGE TANK PROJECTS
- Ivins City Cliff Rose 2.0 MG Tank
- Red Cliffs 2.0 MG Tank and Pipeline Project
- EECWA - Pressure Tank Replacement

MASTER PLANNING PROJECTS
- Big Water Culinary Water Master Plan
- Colorado City Wastewater Master Plan
- Entrada Courts Feasibility Study
- Orderville Culinary Water Master Plan
- Santa Clara Parks and Trails Master Plan Update
- Tropic Water Plan and Reservoir Study
- Washington City Secondary Water Master Plan
- Washington City Wastewater Master Plan Update

CULINARY WATER PROJECTS
- Big Water System Improvements
- SGU Irrigation Line to Entrada
- Springdale Town Water Treatment Plant
- SUU Campus Water Meter Installations

WASTEWATER PROJECTS
- Enoch City Wastewater
- Eureka City Wastewater Improvements

STORMWATER PROJECTS
- Hildale Detention Basin

TRANSPORTATION PROJECTS
- DFCM SUU BLVD Sidewalk
- I-15; Scipio to Juab County Line
- I-15; Washington County Line to Hamilton Drive
- JC Snow Park Parking Lot Improvements
- LaVerkin 300 West Improvements
- SR-143 and SR-274; Near Parowan
- SR-21; Milford to Minersville
- SR-9; Rockville to Zion National Park
- US-89; Paria River to Old Paria

PARKS AND RECREATION PROJECTS
- Entrada Court Improvements Project
- Iron County School District Tennis Courts Replacements
- St. George Bloomington Park Little League Field
- St. George City Hidden Valley Park Courts
- St. George City Little Valley Sports Complex
- St. George Sunset Park Phase II
- Sun River Pickleball Court Replacement
- SUU Soccer Field Improvements Project



TOM NISSON, EIT
EIT

EDUCATION
B.S. - Civil Engineering,
Utah State University

YEARS IN PROFESSION
1; 1 with Sunrise

Donald Leonard

Don serves as the design technician for numerous Sunrise projects. He has extensive experience in various types of design software, especially Computer Aided Drafting (CAD). His particular nature and artistic eye ensure that exhibits and plans are accurate and attractive.



DON LEONARD
CAD SPECIALIST

YEARS IN PROFESSION
28; 18 with Sunrise

AREAS OF EXPERTISE
Design Technician - CAD Drafting

Project Experience

WATER STORAGE TANK PROJECTS
- Ivins City Cliff Rose 2.0 MG Water Tank
- Diversified Water Tank Detail Design
- Fredonia Town Tank
- Red Cliffs 2.0 MG Water Tank
- Roark Estates HOA Tank
- South Hills Tank
- Spirit Mountain Tank Replacement
- Virgin Valley Flat Top Tank Replacement
- Weyher Construction Keyenta Tank

MASTER PLANNING PROJECTS
- Big Water Culinary Water Master Plan
- Colorado City Stormwater Master Plan
- Colorado City Water Master Plan
- Dixie Deer Water Master Plan
- Enterprise City Master Planning
- Fredonia Culinary Water Master Plan
- Kanarraville Town Water Master Plan
- LaVerkin Culinary Water Master Plan
- LaVerkin Storm Water Master Plan
- Leeds Storm Water Master Plan
- Orderville Culinary Water Master Plan
- Panguitch City Trails Master Plan
- Paragonah Culinary Water Master Plan
- Parowan City Culinary Water Master Plan
- Santa Clara Stormwater Master Plan
- Santa Clara Transportation Master Plan
- Springdale Culinary Water Master Plan
- Summit Water Master Plan
- Tropic Water Plan and Reservoir Study
- Washington City Water Master Plan
- Washington City Secondary Water Master Plan
- Washington City Wastewater Master Plan Update

CULINARY WATER PROJECTS
- Dixie Deer Special Service District Culinary Water Improvements
- LaVerkin Culinary Water Project
- Santa Clara Culinary Water Line Project

WASTEWATER PROJECTS
- 3650 South Wastewater Line
- KCWCD Duck Creek Wastewater Project
- Washington Fields Wastewater Transmission Project

PARKS AND RECREATION PROJECTS
- St. George Little Valley Pickleball Complex
- St. George Bloomington Baseball Field
- City of Caliente Dixon Park

Andy Brown

Through his career at Sunrise Engineering, Andy has been involved in various projects as a construction observer in Utah, Nevada, and Arizona. Andy has 20 years of experience in project inspection, documentation, project management, materials testing, and other related duties. His work has included culinary water projects, wastewater projects, storm water projects, secondary water projects, transportation projects, and recreation projects. Andy's depth of experience and dependability on the job have made him a key project team member at Sunrise Engineering. His involvement helps ensure that materials and workmanship in a given project meet the requirements of the contract documents and specifications; this ensures that the Owner receives a quality product.



ANDY BROWN
CONSTRUCTION OBSERVATION

YEARS IN PROFESSION
22; 22 with Sunrise

REGISTRATIONS
- Inspector's Qualification Program - Level I Inspection
- National Highway Institute - NHI Course #131122
- TCCC Introduction to PCC Construction Inspection

Project Experience

WATER STORAGE TANK PROJECTS
- Ivins Cliff Rose 2.0 MG Tank
- Washington City Red Cliffs #2 2.0 MG Tank
- Moapa Valley Water District Overton Tank Refurbishment
- South Hills Tank and Transmission Line
- Virgin Valley Water District Flat Top Tank Replacement
- Fredonia Town Tank Design

MASTER PLANNING PROJECTS
- Springdale Wastewater Master Plan

CULINARY WATER PROJECTS
- Washington City Culinary Water Improvements
- Caliente Well #3 Replacement
- Duck Creek Village Phase I & II Water Projects
- Enterprise City Culinary Water Improvements
- Fredonia Water Improvements Project
- Fruitland Spring Development & Distribution Project
- Salina Water Improvements Project
- Orderville Town Culinary Water Improvements Project
- Kanarraville Town Water Project
- Santa Clara South Hills Water Improvements Project
- Gunlock Special Service District Water Project
- Tanner Ditch Irrigation Splitter Structure

WASTEWATER PROJECTS
- Washington City Wastewater Project, Phase II
- Fredonia Wastewater Project
- Panguitch Wastewater Project
- Hildale Wastewater Facilities Project

TRANSPORTATION PROJECTS
- St. George Hilton Drive
- Telegraph Road Project, Phases I, II & III
- Washington City Middleton Drive
- Vernal City Dry Fork Bridge
- Minersville City Bridge
- Nephi City Airport Road

PARKS AND RECREATION
- Caliente Dixon Park
- City of Caliente Meadow Valley Wash Linear Park Improvements Project
- Lincoln County Fair and Rodeo Grounds