

**AGREEMENT
BETWEEN
SUNRISE ENGINEERING
AND
WEBER COUNTY
FOR
PROFESSIONAL SERVICES**

Design Services for Eden Acres Storm Drain Outfall

THIS AGREEMENT is made and entered into as of the _____ day of _____, 20__, by and between WEBER COUNTY (COUNTY), a body corporate and politic of the State of Utah, and SUNRISE ENGINEERING (CONSULTANT), a Utah corporation authorized to do business in Utah, Taxpayer Identification No. 87-0395347.

W I T N E S S E T H:

WHEREAS, COUNTY desires to obtain engineering services for the storm drainage around the Eden Acres subdivision; and

WHEREAS, CONSULTANT has submitted a proposal to provide consulting and related services for such Eden Acres storm drain outfall; and has been chosen through a competitive process to contract with COUNTY; and

WHEREAS, COUNTY desires to accept said proposal and to receive the services of CONSULTANT as set forth in said proposal;

NOW, THEREFORE, in consideration of the mutual covenants set forth herein, the parties agree as follows:

ARTICLE I

SERVICES OF THE CONSULTANT

A. CONSULTANT shall perform such services as are specified by this contract and as are specified by the scope of services set forth in Exhibit A to this contract, attached hereto and incorporated herein. In performing said services, CONSULTANT shall follow practices consistent with acceptable professional and technical standards for work of this nature.

B. CONSULTANT hereby agrees to furnish those services necessary to complete the scope of services specified in this contract. All said services shall be performed by CONSULTANT or by CONSULTANT's associates, employees, or subconsultants under the personal supervision of the Project Manager, designated in Article I, Section C, or such other qualified person as shall be designated by CONSULTANT and approved in writing by COUNTY.

C. Jared Andersen will perform or supervise the project on behalf of CONSULTANT as Project Manager. Should he be unable to complete said responsibility for any reason, COUNTY reserves the right to terminate this contract in the event he is not replaced by a person which COUNTY finds satisfactory.

D. CONSULTANT has, or will secure at its own expense, the qualified personnel required to perform the services specified by this contract.

E. Except as may be delineated in Exhibit A, or except as allowed by COUNTY's Representative in writing, none of the services specified by this contract shall be subcontracted.

F. During the contract period, CONSULTANT shall attend such meetings and public hearings and shall provide such advice as may be required as described in Exhibit A.

G. All materials developed, prepared, completed, or acquired by CONSULTANT during the performance of the services specified by this contract, including all finished or

unfinished documents, data, studies, surveys, drawings, maps, models, photographs, and reports, in both electronic and non-electronic format, shall become the property of COUNTY and shall be delivered to COUNTY during or at the end of the contract period. All such materials shall not be released by CONSULTANT at any time without the prior written approval of COUNTY's Representative. It is understood and agreed that such materials are to be prepared exclusively for work required under this agreement, and that their use on other projects may not be appropriate. Therefore, COUNTY agrees that its use of said materials on other projects shall be at its own risk unless prior thereto CONSULTANT has given its written approval for such use.

H. In providing opinions of cost, financial analyses, economic feasibility projections, and schedules for the project, CONSULTANT has no control over cost or price of labor and materials; unknown or latent conditions of existing equipment or structures that may affect operation or maintenance costs; competitive bidding procedures and market conditions; time or quality of performance by third parties; quality, type, management, or direction of operating personnel; and other economic and operational factors that may materially affect the ultimate project cost or schedule. Therefore, CONSULTANT makes no warranty that COUNTY's actual project costs, financial aspects, economic feasibility or schedules will not vary from CONSULTANT's opinions, analyses, projections, or estimates. Such variations will be resolved by negotiation between the parties and amendment to this agreement, if needed.

I. CONSULTANT shall not at any time supervise, direct, control, or have authority over any contractor work, nor shall CONSULTANT have authority over or be responsible for the means, methods, techniques, sequences, or procedures of construction selected or used by any contractor, or the safety precautions and programs incident thereto, for security or safety at the

Site, nor for any failure of a contractor to comply with Laws and Regulations applicable to such contractor's furnishing and performing of its work.

ARTICLE II

MANAGEMENT AND COORDINATION

In order that COUNTY may maintain coordination with the content of the studies completed and the services performed as specified by this contract, it is hereby agreed that the services performed by CONSULTANT hereunder shall be coordinated with COUNTY's Representative, who will be either the County Engineer (currently Gary Myers, P.E.) or the County Engineer's designee.

ARTICLE III

SERVICES OF THE COUNTY

A. The representative designated above shall serve as the sole intermediary between COUNTY and CONSULTANT. Said representative shall receive and examine documents submitted by CONSULTANT and shall render any needed decisions on COUNTY policies or procedures in a prompt manner so as to prevent unreasonable delay in the progress of work to be performed by CONSULTANT under this agreement.

B. COUNTY shall without charge furnish to or make available for examination or use by CONSULTANT, as it may request, all available pertinent information and documents related to the project which COUNTY has available and may legally disclose.

C. COUNTY shall not be responsible for discovering deficiencies in the technical accuracy of CONSULTANT's services. CONSULTANT shall correct deficiencies in technical accuracy without additional compensation, unless such corrective action is directly attributable to deficiencies in COUNTY-furnished information.

ARTICLE IV

(RESERVED)

ARTICLE V

TIME SCHEDULE

A. CONSULTANT shall commence its services as specified by this contract upon receipt from COUNTY of written notice to proceed. CONSULTANT shall meet set milestones and complete its work hereunder within the time limits set forth in Exhibit D, except where written notification of variance is received from COUNTY's Representative or except in the event of the occurrence of unforeseeable circumstances beyond the reasonable control of CONSULTANT.

B. It is hereby agreed that CONSULTANT is not required to provide full-time service throughout said period. However, during the entire contract period, CONSULTANT shall commit necessary resources as deemed necessary, within reason, to keep to said schedule.

ARTICLE VI

COMPENSATION

A. Payment to CONSULTANT for its services provided under this contract shall become due upon completion of the same. At the end of each 30-day period during CONSULTANT's performance hereunder, CONSULTANT may request a progress payment based upon work performed and services rendered within that 30-day period. COUNTY shall pay to CONSULTANT the requested payment, if approved, or the undisputed portion thereof within sixty (60) days of the progress payment request. Final payment shall be made when CONSULTANT has submitted the final work product to COUNTY in a manner consistent with

the contract. If COUNTY fails to make a payment within the time specified above, there shall be added to such payment, interest at a rate equal to the percentage rate earned by the County Treasurer on such funds, compounded monthly, commencing on the first day after said payment is due and continuing until payment is made. Interest shall be deemed to be additional to any compensation due CONSULTANT for services provided pursuant to this contract.

B. The payment process described above shall begin only upon submission by CONSULTANT, to COUNTY's Representative, of an invoice or billing signed by the CONSULTANT's Project Manager, including support documents. The invoice or billing may be a hard copy with a wet signature or an electronic document signed digitally (e.g., VeriSign). The invoice or billing shall include an invoice number. Any request for a progress payment shall be denominated as such and shall include the invoice or billing, with support documents, detailing the bill and giving a brief statement of accomplishments and status.

C. The parties agree that the compensation COUNTY shall pay CONSULTANT for performance of the services described in the "Scope of Work" found in Exhibit A shall be made as follows:

COUNTY shall pay CONSULTANT on a time and materials basis with total payment not to exceed \$66,114 unless this agreement is amended as specified in Article XI, Section G. The "Cost Estimate" of Exhibit C is approximate, and payment shall be made for actual work completed in accordance with the "Hourly Rate Schedule" of Exhibit B.

ARTICLE VII

INSURANCE AND INDEMNIFICATION

A. CONSULTANT shall accept full responsibility for the payment of premiums for unemployment insurance and workers' compensation, as well as income tax and social security

deductions and any other taxes or payroll deductions required by law for its employees who are performing services by this contract.

B. CONSULTANT shall procure and maintain the insurance policies required in this article from an insurance company authorized to write casualty insurance in the State of Utah, to protect itself and COUNTY from all claims including, but not limited to, bodily injury, death, or property damage which may arise from performance under the contract. All insurance policies must be approved and accepted by COUNTY, and excepting the professional liability and workers' compensation policies, will name Weber County as additional insured, and will be issued by a surety authorized to do business in the State of Utah and be rated with an A- or better rating in the most current edition of *Best's Key Rating Guide*.

C. CONSULTANT shall not commence performance under this agreement until it has obtained all insurance required by this article and filed a certificate of insurance or certified copy of insurance policy with COUNTY. Each insurance policy shall contain a clause providing that the insurance company will not cancel coverage without thirty (30) days prior written notice to COUNTY of intention to cancel. The amount of such insurance coverage will not be less than the following:

1. Workers' compensation statutory limits as required by the Workers' Compensation Act of the State of Utah and Employers Liability limits \$1,000,000 per occurrence.
2. Commercial General Liability insurance in the minimum amount of \$1,000,000 per occurrence with a \$2,000,000 aggregate.
3. Professional Liability insurance in an amount of not less than \$1,000,000.

4. Automobile Liability insurance in the minimum amount of \$1,000,000 per occurrence with no deductible. "Any Auto" coverage is required.

Excluding workers' compensation and professional liability coverages, CONSULTANT's insurance coverage shall be a primary insurance. COUNTY's self-insurance or insurance shall be in excess of CONSULTANT's insurance and shall not contribute with it. CONSULTANT's failure to comply with policy reporting provisions shall not affect coverage provided to COUNTY, its officers, officials, employees, or volunteers.

D. CONSULTANT agrees to defend, indemnify, and hold harmless COUNTY, its officers, employees, and agents from and against any and all liability, loss, expense (including reasonable attorney's fees), or claim, arising out of the performance of this Agreement but only in proportion to and to the extent such liability, loss, expense, attorney's fees, or claims for injury or damage are caused by or result from the negligent or intentional acts, errors, and/or omissions of the CONSULTANT, its agents, employees, and/or subconsultants. CONSULTANT shall not indemnify for default when the delay is beyond the control and without the fault and negligence of CONSULTANT, including but not restricted to, changes in the scope of work, strikes, availability of materials, acts of God or of the public enemy, acts of COUNTY or its representatives or agents, and acts of any other consultant and/or contractor in the performance of a contract with COUNTY.

E. The parties agree that for purposes of this agreement, CONSULTANT, its officers, agents, and employees are not to be regarded as COUNTY employees, and that CONSULTANT is an independent contractor in all respects.

ARTICLE VIII

REMEDIES

A. Time for Completion. The date of beginning and the time for completion of the specified work are essential conditions of this contract. If CONSULTANT shall fail to comply with the time schedule set forth in Article V and Exhibit D, or any extension of time granted by COUNTY, then CONSULTANT shall be in default, unless the failure is beyond the control and without the fault and negligence of CONSULTANT. If CONSULTANT defaults, then COUNTY shall be entitled to the recovery of direct damages, if any, resulting from the default, in addition to any other remedies granted by this contract.

B. Correction of Work. CONSULTANT shall promptly replace and/or re-execute work rejected by COUNTY for failure to comply with this contract, without expense to COUNTY. However, COUNTY shall give expeditious and thorough consideration to all reports and sketches, estimates, drawings and specifications, proposals and other documents submitted by CONSULTANT and shall inform CONSULTANT of any decisions concerning adequacy of the work within a reasonable time.

C. Disputes. If CONSULTANT disputes COUNTY's compliance with any term of this contract, CONSULTANT shall present its claim in writing to COUNTY within ten (10) days of learning of the act or condition that created the dispute, or the claim shall be deemed waived by CONSULTANT. Notice of such claim need not be specific in detail but shall be sufficient to identify the character and scope of the claim. COUNTY shall consider said claim and render its decision thereon in writing not later than ten (10) days following the date notice of said claim was received by COUNTY. In the meantime, CONSULTANT shall proceed with the work as directed by COUNTY. If CONSULTANT is aggrieved by the decision of COUNTY upon its claim, CONSULTANT shall nevertheless comply therewith and complete the work required thereunder, and under this agreement. By giving timely notice of its claim according to this

paragraph, CONSULTANT shall preserve its claim for future proceedings or litigation, if necessary. However, the existence of any dispute shall not serve as reason to terminate or delay the work required under this agreement.

ARTICLE IX

CHANGES

COUNTY may, at any time by written order, and without notice to the sureties, if any, make changes in the concept of the project of this contract, if within its general scope. If such changes cause an increase or decrease in CONSULTANT's cost of, or time required for performance of the contract, an equitable adjustment in price or time will be made and the contract modified in writing accordingly. The equitable adjustment shall be based upon a negotiated price for the change required. All changes shall be set forth in writing, signed by all parties prior to the performance thereof and any changes in price shall be added to or subtracted from the price hereof and billed to COUNTY in accordance with the provisions of Article VI hereof. Except as provided in this contract, no charge for any extra work or materials will be allowed or paid. In determining the equitable adjustment to be paid, the books and records of CONSULTANT pertaining to this agreement shall be made available to COUNTY.

ARTICLE X

TERMINATION

A. COUNTY shall have the right to terminate this agreement in whole, or from time to time, in part, for COUNTY's convenience or because of CONSULTANT's failure to fulfill the contract obligations. COUNTY shall terminate by delivering to CONSULTANT a Notice of Termination specifying the extent to which performance of services under this contract is terminated, and the date upon which such termination becomes effective. In the event the

agreement is terminated by COUNTY prior to full performance by CONSULTANT, CONSULTANT shall be paid for services rendered to the date of termination based upon a percentage of completion of the full performance of this agreement.

B. After receipt of a written Notice of Termination for convenience, CONSULTANT shall:

1. Stop work under the contract upon the date and to the extent specified in the Notice of Termination;
2. Place no further orders or subcontracts for materials, services or facilities, except as may be necessary for completion of such portion of the work under the contract as is not specifically terminated;
3. Transfer to COUNTY, and deliver to COUNTY, work in process, completed work, completed or partially completed plans, drawings, information and other property (including all electronic files and support files) which would be required to be furnished to COUNTY if the contract had been completed;
4. Terminate all orders and subcontracts to the extent that they relate to performance of work terminated by the Notice of Termination;
5. Assign to COUNTY, in the manner, at the times, and to the extent directed by COUNTY, all of the right, title, and interest of CONSULTANT in any orders and subcontracts so terminated, in which case COUNTY shall have a right, in its discretion, to settle and pay any or all claims arising out of the termination of such orders and subcontracts;
6. Settle all outstanding liabilities and all claims arising out of such termination of orders and subcontracts, with the approval and ratification of COUNTY to

the extent CONSULTANT may require, which approval or ratification shall be final for all purposes of this clause.

C. After receipt of a written Notice of Termination, CONSULTANT shall submit to COUNTY its termination claim no later than sixty (60) days after the termination of this contract, unless extensions in writing are granted by COUNTY. Upon failure of CONSULTANT to submit its termination claim within the time allowed, COUNTY may determine, on the basis of information available, the amount, if any, due to CONSULTANT by reason of the termination and shall thereupon pay to CONSULTANT the amount so determined.

D. In the event of termination for convenience, the amounts due CONSULTANT from COUNTY shall be determined as follows:

1 There shall be included all costs and expenses reimbursable in accordance with this contract, not previously paid to CONSULTANT for the performance of this contract prior to the effective date of the Notice of Termination, and such of these costs as may continue for a reasonable time thereafter with the approval of, or as directed by, COUNTY; and

2 There shall be included so far as not included under (1) above, the cost of settling and paying claims arising out of the termination of work under subcontracts or orders, which are properly chargeable to the terminated portion of the contract.

E. With the exception of work completed prior to receipt of the Notice of Termination, in no event shall all termination claims and payments described herein exceed the value of work left to be completed as of the date of receipt of the Notice of Termination.

ARTICLE XI

MISCELLANEOUS

A. No Officer or Employee Interest. No officer or employee of COUNTY shall have any pecuniary interest, direct or indirect, in this agreement or the proceeds thereof. No officer or employee of CONSULTANT nor any member of their families shall serve on a COUNTY board or committee or hold any such position which either by rule, practice, or action nominates, recommends, or supervises CONSULTANT's operations, or authorizes funding to CONSULTANT. No officer, employee, or member of the governing body of COUNTY, or of the locality or localities in which the project governed by this contract takes place, shall (1) participate in any decision relating to this contract which affects his or her personal interest or the interest of any corporation, partnership, or association in which (s)he is, directly or indirectly, interested, or (2) have any interests, direct or indirect, in this contract or the proceeds thereto.

B. Assignability. CONSULTANT shall not assign any interest in this contract, and shall not transfer any interest in the same (whether by assignment or novation), without the prior written consent of COUNTY.

C. Interest of CONSULTANT. CONSULTANT covenants that it presently has no interest and shall not acquire any interest, direct or indirect, which would conflict in any manner or degree with the performance of services required to be performed as specified in this contract. CONSULTANT further covenants that in the performance of said services no person having any conflict of interest shall be employed.

D. Equal Employment Opportunity. CONSULTANT, by entering into this agreement, or any person acting in its behalf, agrees that it shall not, because of race, color, sex, religion, age, disability, marital status, sexual orientation, ancestry, or national origin, discriminate in the engagement or employment of any professional person or any other person

qualified to perform the services required under this agreement or any subagreement executed in the furtherance thereof.

E. Contingent Fees. CONSULTANT warrants that no person or company has been employed or retained to solicit or secure this contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees; nor has CONSULTANT paid or agreed to pay any person, company, corporation, or firm, other than a bona fide employee, any fee or commission resulting from award of this contract. For any breach or violation of this provision, COUNTY shall have the right to terminate this agreement without liability and, at its discretion, to deduct from the contract price, or otherwise recover, the full amount of such fee, commission, percentage, gift or consideration and any other damages and shall be responsible for reporting the details of such breach or violation to the proper legal authorities where and when appropriate.

F. Affidavit. A sworn affidavit may be required to be submitted by each officer, employee, or agent of CONSULTANT who has been in contact or communicated with any officer, agent, or employee of COUNTY during the past calendar year concerning the provision of these services. The affidavit shall contain the following statement.

"I do solemnly swear that neither I, nor to the best of my knowledge, any member of my firm or company, have either directly or indirectly restrained free and competitive bidding for these consultive services by entering into any agreement, participating in any collusion, or otherwise taking any action unauthorized by the governing body of the County, or in violation of applicable law."

G. Amendments. Unless otherwise provided for in this agreement, all changes, including any increase or decrease in the amount of CONSULTANT's compensation, time schedule, or scope of services, which are mutually agreed upon by and between COUNTY and CONSULTANT, shall be incorporated in written amendments to this contract and signed by the

parties hereto. No alteration or variation in the terms of this agreement shall be valid unless made in writing as required herein.

H. Default. If either party defaults in the performance of the agreement or any of its covenants, terms, conditions, or provisions, the defaulting party shall pay all costs and expenses which may arise or accrue from enforcing the agreement or from pursuing any remedy provided thereunder.

ARTICLE XII

EXHIBITS AND SPECIAL PROVISIONS

A. Exhibits Included:

1. Exhibit A, Scope of Work.
2. Exhibit B, Hourly Rate Schedule
3. Exhibit C, Cost Estimate
4. Exhibit D, Schedule

B. Total Agreement: This Agreement, (together with the exhibits identified above) constitutes the entire agreement between COUNTY and CONSULTANT and supersedes all prior written or oral understandings. This Agreement may only be amended, supplemented, modified, or canceled by a duly executed written instrument.

IN WITNESS WHEREOF, the parties have signed and subscribed their names hereon and have caused this agreement to be duly executed as of the day and year first set forth above.

WEBER COUNTY

By: _____
Commission Chair

Recommended for Approval:

Gary Myers, P.E.
County Engineer

ATTEST:

By: _____

Title: _____

CONSULTANT:
SUNRISE ENGINEERING

By: Cliff Linford

Title: Principal, SLC Civil Dept manager

STATE OF UTAH)
 : §
County of Salt Lake

On this 30th day of June, in the year 2020, before me,
(notary name) DEIDRA DEE AGUILAR a notary public, personally appeared,
(signer name) Cliff Linford, proved on the basis of satisfactory evidence to be the person(s) whose name is subscribed to this instrument, and acknowledged (s)he executed the same.

Witness my hand and official seal.

Deidra Dee Aguilar
NOTARY PUBLIC





Proposal for Surveying and Design Services:

Eden Acres Storm Drain Outfall

Weber County

May 28, 2020



Ogden Office

1481 East 5600 South, Suite E101, Ogden, Utah 84403 | TEL 801.523.0100

May 28, 2020

Weber County Purchasing
2380 Washington Blvd Ste. 260
Ogden, UT 84401

**RE: Proposal for Surveying and Design Services for Eden Acres Storm Drain Outfall
Proposal #20-134**

Dear Selection Committee Members,

Sunrise Engineering is pleased to present this proposal for the Eden Acres Storm Drain Outfall project. Our proposed team will be led by former Weber County Engineer, **Jared Andersen, PE**, based out of our Ogden office. With several years of direct experience with Weber County projects and personnel, Jared has a deep understanding of the Weber County process for completion of projects and what it takes to make them succeed. His leadership and expertise in working with similar projects in the past, along with his knowledge of this project, combined with the local experience of our other team members will provide Weber County with a valuable team focused on efficiently moving your project from start to finish.

- » If selected, Sunrise Engineering will participate in the contract as written and comply with the terms and conditions in the RFP.
- » Sunrise is an affirmative action firm - we do not discriminate in our employment practices with regards to race, color, religion, age (except as provided by law), sex, marital status, political affiliation, national origin, or handicap.
- » Jared Andersen, PE, is authorized to sign this proposal on behalf of Sunrise Engineering, Inc.
- » See Appendix A for our completed respondent questionnaire and Appendix B for our completed Conflict of Interest disclosure statement.

Sunrise Engineering is committed to continuing our working relationship with Weber County. Based on our staff size and current workload, we have the ability to quickly and efficiently respond to your engineering needs. All of our key personnel identified in this proposal are available and committed to exceeding your expectations.

We are confident that we have assembled the best team you can choose to take on this project. Should you have questions regarding this proposal or project, please contact me at 801.528.1141.

Sincerely,

Jared Andersen, PE
Project Manager
Sunrise Engineering

Primary Contact

Jared Andersen, PE
Project Manager
801.528.1141
jandersen@sunrise-eng.com

Backup Contact

Derek Anderson, PE
Principal Engineer
801.523.0100
danderson@sunrise-eng.com

Work Plan and Project Approach

Step #1 - Establish the Alignment

The first key item to be accomplished for this project is to establish the alignment of the storm drain. Based on our preliminary assessment, there is one property where an easement needs to be obtained for the project. As with all projects, negotiations with this property owner to obtain this easement will need to start early. Thirty percent design will need to be accomplished quickly to have an alignment that will work. Verification of existing county road right of way will also be needed. Research and an understanding of what rights exist will be needed whether those rights are descriptive or prescriptive. The exit point will need to be addressed with Bureau of Reclamation/USDA Forest Service relating to how the design will work with the existing reservoir. As requested by the County, acquisition packages will need to be assembled for each property to correctly document each item including legal descriptions, parcel maps showing ownership and landscape items needing to be replaced.

Step #2 - Meet with Affected Landowners



Fencing along back properties along Sierra



Exhibit 1 - Alignment from Diversion Structure to First Road Crossing

Once the alignment is established, meeting with all impacted residents is a critical step in the design process. There are seven properties between the diversion structure and 2300 North. These are shown in Exhibit 1. As previously mentioned, there is a 20-foot easement that exists in the backyards of these residents. Within these easements are landscaping, vinyl fences, cedar fences, sprinkling systems, and small structures. The impact of construction on these items within the easements will need to be addressed between each homeowner and the project manager. The design drawings will include a landscape plan for each homeowner dictating what will happen with the landscape and how disturbed areas will be put back together. There are three landowners that border 2300 North, and one landowner between 2300 North and

2200 North. Although not much landscape is involved with these homeowners, conversations with each of them will need to take place. Once the alignment hits 2200 North, there will be a drop and road crossing. These are shown in Exhibit 2. The property owners near this location will be impacted and need to be included in the details of the design. Once the alignment crosses the road at approximately 5412 East, there will only be three property owners impacted by installation of the storm drain pipe.

Negotiations with residents and meetings with them will be a critical component of this project. Weber County has stated how important meeting with residents will be in the RFP. If needed, Sunrise has a Public Information Specialist on staff to assist with this process. General deliberation of easement access, construction scheduling and project inquiries/complaints by property owners or general public could be carefully coordinated by a dedicated point-of-contact, if desired by the County. Regardless, Sunrise will plan to have multiple meetings with residents, utility companies, and canal companies to include all stakeholders in the project.

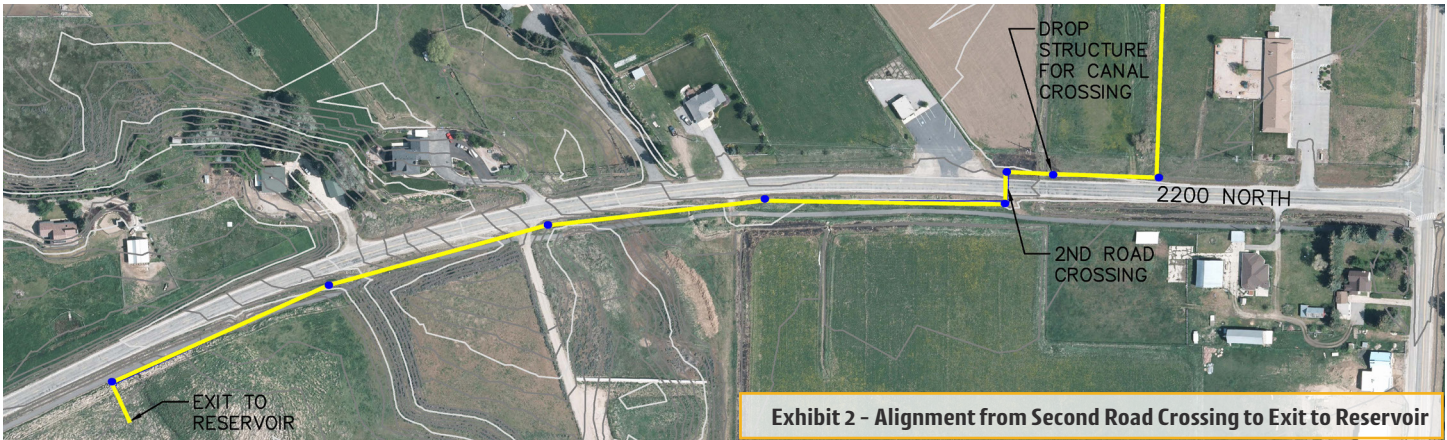


Exhibit 2 - Alignment from Second Road Crossing to Exit to Reservoir



Looking towards location of new diversion structure

Step #3 - Detailed Design of Storm Drain System

Design of this storm drain will have its challenges. The diversion at the start of the project will be a critical design feature of the project. The insufficiency of the diversion box constructed at this point is the primary reason for this project. Ice blockage has been an issue almost every year at this location. There are also active flows of water for drainage and irrigation use. Discussions with the county, residents and irrigation company will need to happen to be on the same page with the design of this structure. As dictated by the County, the new storm drain line needs to be able to relieve the system at high flows. Preliminary engineering of this line indicates the minimum required size would be a 36" pipe. Discussions will need to be had if at any point the design could be open channel. Although the design of slope in the back yards will be standard, most of the 20 foot easement will be impacted by installing the line.

Installation of the pipe along the north side of 2300 North should not create too many negative impacts, with the exception of the pathway, which will need to be replaced. At approximately 5440 East there will be a road crossing (See Exhibit 1). After the road crossing, an easement will need to be obtained running down the

property line of the two land owners between 2300 and 2200 N. Communication with these two property owners will be critical as this easement currently does not exist. The slope along this section will increase slightly for flows to work correctly.



Proposed Canal Crossing along 2200 North

Once the line reaches 2200 N, the line will head west towards the canal. The canal is shown in the photo. Communication with the canal company is critical. Before the crossing of the canal, a drop structure will likely be required to get under the canal. Before the line reaches the first residential home heading west, the pipe line should cross the road to the south side of 2200 N avoiding potentially impacting the driveways of four residents. Once on the south side of 2200 North, the storm drain pipe will affect three property owners. Following these properties, there will be a crossing at the cemetery road, a minor irrigation ditch, and finally outfall into the reservoir. There will likely be an environmental assessment on the project at the outfall location, considering how close it is to the reservoir.

The paragraphs above outline a conceptual design of the storm drain pipe. Once actual survey is completed, there may be some changes to the alignment shown above. For example, existing topo data shows there is enough slope between the diversion



structure and the first road crossing for anticipated storm water volumes. However, the slope is just above minimum slope for a 36" line. Detailed topographical survey will help dictate actual slope. Another example of possible changes is at the second road crossing, which might not be feasible until just before the outfall to the reservoir. This would result in driveways and landscape to deal with during design.

Work Plan Summary

The steps above outline our work plan for the project. Assumptions made in preparation of the work plan and schedule include:

1. Landowners between 2300 N and 2200 N will be willing to negotiate an easement
2. The county will act as the Authority Agent of the easement and accessing the easements
3. A detailed design survey will need to be performed along the alignment, once established
4. There is enough slope to get from the inlet structure to the reservoir outfall

A detailed schedule is included in this proposal on the following page.

Advantages to Using Sunrise

Our design team has experience with large storm water design. With all of our design projects, we look at the most efficient design with the least impact to our clients, specifically focusing on long-term impacts and future conditions. The advantage to using Sunrise on this project is that we know this project and we have looked at it extensively. With that knowledge, we understand we have not addressed every issue, but look forward to helping Weber County through the design process, leading to a successful project.



Qualifications/Experience

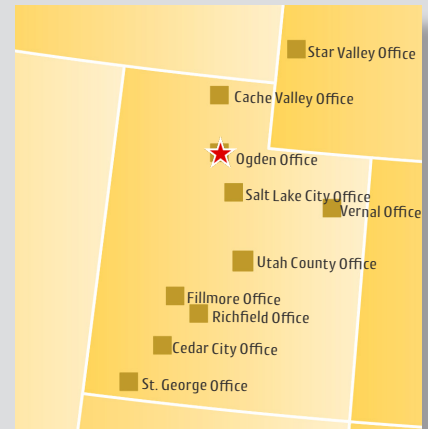
SUNRISE INTRODUCTION AND GENERAL QUALIFICATIONS

SUNRISE ENGINEERING, INC. 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.

What this means for Weber County is that you get a firm with a track record of consistent client satisfaction who will provide you with the confidence that you will receive exceptional service and affordable engineering with the quality you're expecting.

When selecting Sunrise Engineering you are also choosing winning stability and a winning culture. We have been recognized nationally as one of ENR's Top 500 Design Firms for the past five years. Our Storm Water team includes staff who have specialized in storm water design for their entire careers. Our team also includes the former Weber County Engineer who has history and knowledge the Eden Acres Drainage area.

Our local office is 15 minutes away from Weber County and 25 minutes from the project. Your main Sunrise contact will be Jared Andersen. This benefits Weber County in that Sunrise is not only close to the project, but having a project manager who knows the project and who can respond quickly and well to the public concern and questions as they come up.



Sunrise Engineering Ogden Office:
 1481 East 5600 South, Suite E101
 South Ogden, Utah 84403
 801.523.0100

Sunrise Engineering Team Expertise:



STORM WATER	CIVIL ENGINEERING	MUNICIPAL	WATER	SANITARY SEWER
STRUCTURAL	TRAFFIC/TRANSPORTATION	ENVIRONMENTAL	PARKS, TRAILS, AND RECREATION	



3D SCANNING	TOPOGRAPHIC	CONSTRUCTION LAYOUT	LAND BOUNDARY
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STAKEHOLDER MEETINGS	PUBLIC OUTREACH	DIGITAL MEDIA	STAKEHOLDER NOTICES
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ADDITIONAL SUNRISE OFFICES

Salt Lake City, UT 801.523.0100	Vernal, UT 435.789.7364
Springville, UT 801.704.5220	St. George, UT 435.652.8450
Fillmore, UT 435.743.6151	Richfield, UT 435.689.0299
Cache Valley, UT 435.563.3734	Cedar City, UT 435.867.8834



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.





SPECIFIC QUALIFICATIONS

Sunrise has completed the design and construction management of several storm drain projects recently. We consider drainage and storm drain design to be a critical service that we provide. Our engineering experts have several combined years of drainage and storm drain experience. Li Qi, our hydrologist, has been doing storm drain design for over 31 years, 20 of those years with Sunrise.

The list of services we provide in relation to drainage and storm drain include the following:

- Drainage Master Plan
- Urban Offsite and Onsite Drainage Study and Storm Drain System Design (Pipelines, Ditches, Culverts, Catch Basins, and Detention and Retention Facilities)
- Roadway Offsite and Onsite Drainage Study and Storm Drain System Design
- Bridge and Culvert Hydraulic Modeling and Design
- Surface Water Hydrologic and Hydraulic Modeling
- FEMA Flood Insurance Study, CLOMR, and LOMR
- City and Subdivision Culinary Water Supply System Modeling and Design (Wells, Springs, Tanks, Pipelines, Pump Stations, PRV Stations, and Control Valves)
- Groundwater Modeling and Study
- Well and Spring Development
- Reservoir and Dam Hydrology and Routing Study

This section of the proposal demonstrates our qualifications and expertise in relation to storm drain. We have included projects of similar size and geography, projects that are similar and close in proximity to your project, and also projects that demonstrate a comprehensive understanding of all things storm drain.



Recent Drainage Storm Drain Projects		Master Planning	Hydrologic and Hydraulic Modeling	SD Pipes	Open Chanel Flow Infrastructure	Roadway Drainage	Bridges/Culverts
Sunrise Design Team Experience							
UDOT SR-60 , from SR-168 to US-89 Roadway and Drainage, Davis County, UT			●	●		●	●
ASI 8000 West, Cache Valley , UT			●	●	●	●	●
UDOT SR-9 Rockville to Zion National Park, Springdale, UT			●	●	●	●	●
Fillmore Main Street Drainage Improvements, Fillmore UT		●	●	●	●	●	●
Tom's Canyon Flood Control Project, Kanab UT			●	●	●		●
Hyde Park Storm Water Projects 2017			●	●	●		●
Lower Tuacahn Wash Detention Basin, Santa Clara, UT		●	●	●	●		
Colorado City/Hilldale Storm Water Master Plan, Colorado City, AZ & Hilldale, UT		●	●	●	●		●
Lincoln County Stormwater Master Plan, Lincoln County, NV		●	●		●		●
Enoch City Storm Water Master Plan, Enoch UT		●	●		●		●
Avondale City Center Drainage Master Plan Update, Avondale, AZ		●	●	●			
Santa Clara City Storm Water Master Plan Update, Sana Clara, UT		●	●	●	●		●
Herriman Storm Water Master Plan, Herriman, UT		●	●	●	●		●
Taylorsville Storm Water Master Plan, Taylorsville, UT		●	●	●	●		●
UDOT I-15 between Utah County Line and 10600 South Interchange, SLCo, UT			●	●		●	
Jared Andersen Experience with Previous Employer							
12th Street Reconstruction Storm Water Improvements, Weber County, UT				●	●	●	●
3500 West Reconstruction Storm Water and Drainage, Weber County, UT				●		●	●
7500 West Storm Drain, Weber County, UT				●		●	
4000 N 2000 W Roadway Reconstruction and Culvert Installation, Weber County, UT				●	●	●	
Skyline Road Storm Water Upgrades, Weber County, UT				●		●	
Powder Mountain Storm Water Master Plan, Weber County, UT		●	●	●	●		
Upper Valley Storm Water Master Plan, Weber County, UT		●	●	●	●		●
Lower Valley Storm Water Master Plan, Weber County, UT		●	●	●	●		●
Dan Herbert Experience with Previous Employer							
SR-108 Reconstruction Design, Weber County, UT			●	●		●	



SR-9; ROCKVILLE TO ZION NATIONAL PARK STORM DRAIN IMPROVEMENTS

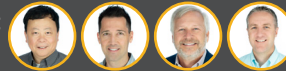
Springdale, Utah

Sunrise conducted the storm drain system improvement design for a section of State Route 9 (SR-9) between Rockville and the west entrance of Zion National Park. Sunrise inspected and evaluated the existing offsite and roadway storm drain systems and prepared a preliminary drainage summary report, which summarizes the storm drain facilities, discusses the existing conditions, determines the design storm frequencies for the offsite and roadway storm drain improvements, and makes preliminary recommendations for the approach to the hydrologic analysis and hydraulic design. Sunrise also performed a hydrologic and hydraulic analysis and prepared a drainage report for Phase I and Phase II, which provides the hydraulic design data including delineation of offsite watershed boundaries, rainfall data, design flows, culvert hydraulics, and storm drain design recommendations.

Application to Eden Acres: This project was located in rural southern Utah along a major state highway. The drainage design and modeling considered all flows from adjacent properties and washes. Ultimately, recommendations for storm drain infrastructure were provided based off of watershed flows and road drainage. The recommendations included sizing storm drain pipe and other related infrastructure to accommodate the storm water.

ENGINEERING COST:
\$698,518.17

KEY TEAM MEMBERS:



STORM DRAINAGE STUDY AND HYDRAULIC DESIGN MAIN STREET

Fillmore, Utah

Fillmore City has experienced frequent flooding since the installation of a pressure irrigation system in the early 1970's. Main Street is one of the areas along which storm water became a serious problem due to its poor drainage conditions. Besides the storm water accumulated on the roadway, the offsite runoff from eastern high land area flows towards Main Street, which causes significant inundation even during a high frequency storm event. Sunrise completed a hydrologic study and hydraulic design for the improvement of the drainage conditions along Main Street. A series of HEC-1 and HYDRAIN models were performed to provide preliminary design data for a proposed storm drainage system between 440 South and 300 North Streets. Main Street is also known as Utah State Route 99 (SR-99) that is maintained by Utah Department of Transportation (UDOT). For the storm drain design, Sunrise made engineer's recommendations including improved grading, curb and gutters, location, size and rim elevation of catch basins, size, invert elevation, and slope of cross drains, size, invert elevation, and slope of trunk lines, and spacing of cleanout boxes or access holes.

Application to Eden Acres: This project was focused on design of a storm drain system in rural Fillmore Utah along a state road. The purpose of this project was to resolve all of the drainage and storm drain issues resulting from old, under-designed infrastructure. This project involved storm drain planning, modeling, design, and construction management. Our design team participated in the process from project conception to completion of construction.

ENGINEERING COST:
\$37,000

KEY TEAM MEMBERS:





SR-60: SR-168 TO US-89
Riverdale, Utah

Sunrise prepared the project design plan set for this seven mile purple book project in Region 1. The design included a mill and fill of the old roadway, coordination with local governments to correct problematic drainage areas and elements, along with coordination from replacement of curb, gutter and sidewalk with South Weber City. Dan coordinated with UDOT central structures to incorporate their needed repairs and upgrades to the structure over US-89 and successfully helped the PM apply for, and receive additional project funding for additional needed elements to make this roadway function better for the area. The project was delivered on-time and under design budget, resulting in a favorable evaluation and additional projects from Mr. Ballantyne.

Application to Eden Acres: One of the main purposes of this project was to correct the problematic drainage areas of this transportation corridor. This was accomplished through installation of drainage structures, replacement of curb and gutter, and installation of new storm drain pipe. The drainage issues were resolved as a result of this project.

ENGINEERING COST:
\$116,999.45

KEY TEAM MEMBERS:



ASI 8000 WEST ROADWAY DESIGN DRAINAGE AND STORM DRAIN IMPROVEMENTS
Cache County, Utah

Sunrise was contracted by Autonomous Solutions, Inc. (ASI) to replace an existing gravel road with a new paved and widened road. This replacement brought the roadway up to County standards and allow ASI to expand their facility and their workforce in this area. The road was 3/4 of a mile long and was widened to 24-foot wide. The existing width of the road, steep slopes, and large areas of cut and fill proved challenging in this project. Drainage was a critical design issue for this project. Our design team worked with County officials to work through right-of-way and drainage issues to find a solution that serves the community in the best possible fashion. This project involved the design of several storm drain elements including, culverts, channels, and storm drain pipe (18 inch to 60 inch diameter). Through steady communication and clear presentation of challenges, all parties were able to find workable solutions.

Application to Eden Acres: This project is similar to your as it was a rural storm drain system, requiring hydrologic modeling, flood control, and significant storm water conveyance. The design required storm drain pipe ranging from 18 inch diameter to 60 inch diameter pipe. The rural nature of the project located in northwest cache valley resulted in significant storm water flows from adjacent properties.

ENGINEERING COST:
\$118,700

KEY TEAM MEMBERS:





RIO TINTO KENNECOTT UTAH MULTIPLE DRAINAGE PROJECTS

Bingham Canyon Mine, SLCo, Utah

The drainage and storm water team at Sunrise Engineering has been completing storm drain and storm run-off projects for Kennecott for several years. The projects involve watershed modeling, drainage channel design, detention & retention basin design, storm drain piping, culvert design, and large down drain design. Sunrise is the primary storm drain engineer for the mine. Recently, we have completed design of storm water drainage conveyance for the relocation of the main conveyor that takes minerals from the crusher at the mine to the processing facility located in Copperton, UT. This project involved hydrologic modeling, hydraulic analysis, and drainage infrastructure design. The infrastructure includes down drains, channels, catch basins, detention ponds, culverts, and storm drain piping.

Application to Eden Acres: These multiple projects demonstrate the ability of our design team to work with significant volumes of water when it comes to storm drain design. Some of the soil at the mine contains contaminants and high levels of corrosivity. The design of the infrastructure on these projects has had to account for this and shows experience with material selection to meet a specific quality parameter of anticipated storm water. These projects have also required significant design to accommodate large volumes of sediment loading on the storm drain infrastructure.

ENGINEERING COST:

Several Projects >\$500,000

KEY TEAM MEMBERS:



TOM'S CANYON FLOOD PREVENTION PROJECT

Kanab, Utah

The Sunrise team led by Derek Anderson and Li Qi was retained by Kanab City in Kane County, Utah to complete a significant floodplain management project. A developer had made significant changes to the floodplain within the City limits and the City was in need of a detention basin to attenuate flooding events and direct the 100-year floodplain to a channel constructed by the developer in order to protect downstream development of private properties. Sunrise completed the watershed hydrologic modeling, detention dam design, State of Utah Dam Safety coordination and approvals, hydraulic modeling (flood routing), dam break analysis, and inundation mapping. A CLOMR and LOMR were also prepared and submitted to FEMA. Since the improvements have been constructed, two significant flooding events have taken place (greater than 100 year events). During the events, the dam and detention basin, and channel directly downstream of the dam functioned as designed and the homes constructed directly downstream within the previous 100-year floodplain were protected from severe flooding damage.

Application to Eden Acres: This project demonstrates our expertise with floodplain management and containing severe storm water runoff. The project included design of detention basins and storm drain infrastructure to channel all of the run-off water to the drainage channel constructed by the developer. Our successful completion of this project demonstrates our ability to think outside the box on storm water projects, as this project was not a "typical" storm water project.

ENGINEERING COST:

\$344,500

KEY TEAM MEMBERS:



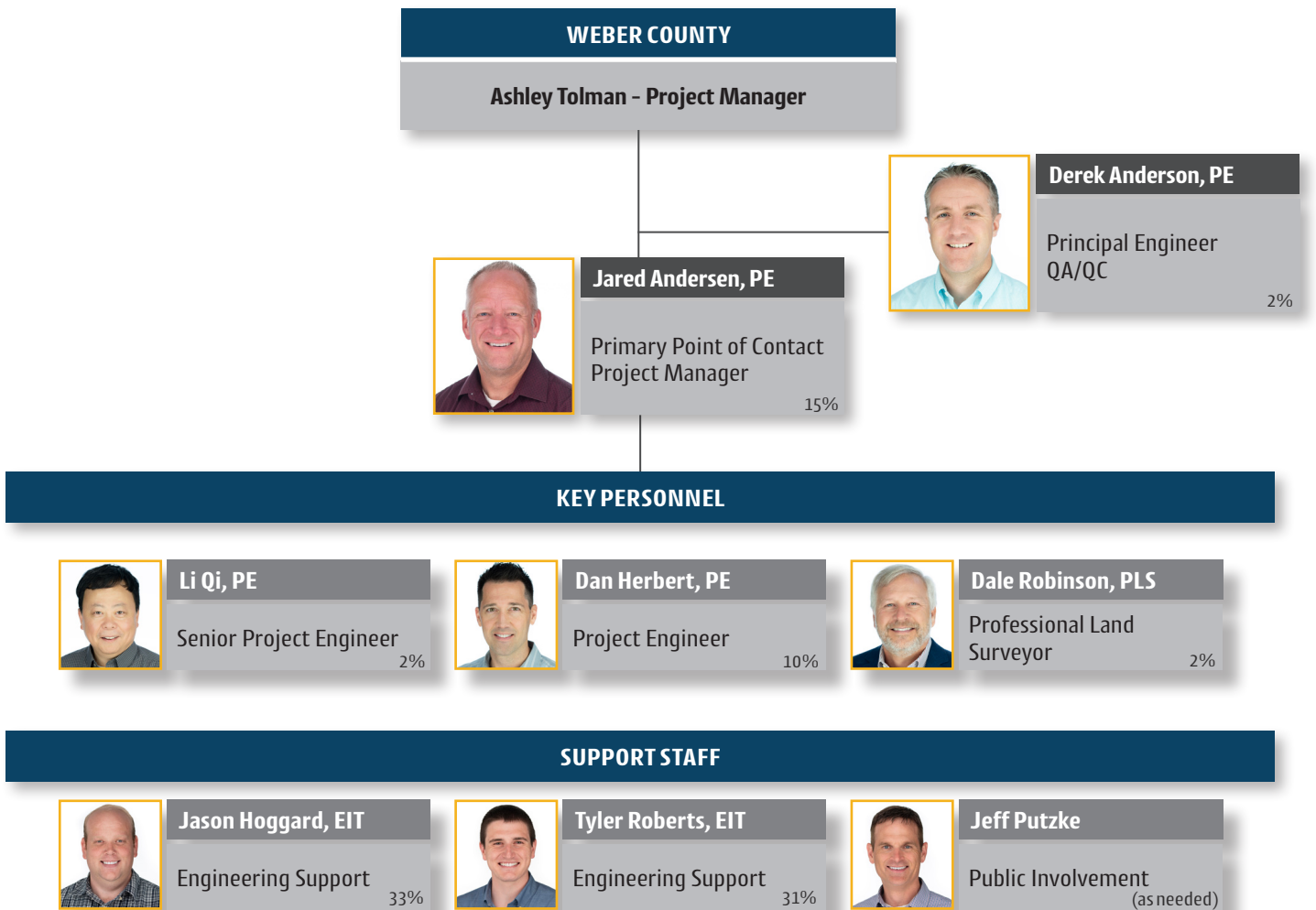


Key Personnel and Project Team

At Sunrise Engineering, we understand that when you select an engineering team, you are ultimately selecting people- people that you will be working with side by side for years to come. Effective teams do not happen by accident. It can take years of collaborative efforts between the people involved to identify and harness the unique talents of each team member in order to improve upon and strengthen the team- and ultimately a Client’s project. Much like a puzzle, when team members work together, they are stronger as a whole than they are individually. As we have demonstrated in our project experience, our design team members have worked together for many years, as a team, on a wide variety of storm drain projects similar to your project.

The project engineering team shown below demonstrates our range of experience and expertise available to you for your specific project. The team will be managed by Jared Andersen, PE, former Weber County Engineer. He understands the needs of Weber County and will handle this project with the utmost level of professionalism. Li Qi, PE, is our storm drain expert and has over 30 years of experience. Resumes for each team member can be found in Appendix C.

15% of the work will be performed out of our Ogden office, 83% of work performed out of our SLC office, and 2% of work performed out of our Springville office.



*Survey Crew 5%



JARED ANDERSEN, PE
Project Manager

LOCATION:
Ogden, UT

YEARS IN PROFESSION:
18; 1 with Sunrise

PERCENT OF TOTAL PROJECT: 15%

Qualifications:

- Experience in small and large stormwater design, construction management, and project management
- Design and management experience with surface runoff and detention/retention facilities

Project Experience (as Weber County Engineer):

- Skyline Road Stormwater Upgrades
- Uintah Detention Pond Structures
- 2700 North Pleasant
- View Detention Pond Structures
- Storm Water Master Plan Upper and Lower Valley Weber County



CLIFF LINFORD, PE
Principal Engineer/QA/QC

LOCATION:
Springville, UT

YEARS IN PROFESSION:
15; 14 with Sunrise

PERCENT OF TOTAL PROJECT: 2%

Qualifications:

- Expertise in hydraulics, hydrology, and environmental engineering
- Experience working on drainage studies, storm sewer design, hydraulic structure design, and culverts detention basins

Project Experience:

- Colorado City/Hildale Stormwater Masterplan
- Lower Tuacahn Wash Detention Basin
- SR-9 Rockville to Zion
- National Park
- Fillmore Main Street Drainage Improvements
- Avondale City Center Drainage Masterplan



LI QI, PE
Senior Project Engineer

LOCATION:
Salt Lake City, UT

YEARS IN PROFESSION:
31; 21 with Sunrise

PERCENT OF TOTAL PROJECT: 2%

Qualifications:

- Expert in hydraulics and hydrology with experience with modeling rivers and reservoirs, dams, and offer hydraulic structures, as well as the detailed hydrology associated with those types of projects

Project Experience:

- Tom's Canyon Flood Prevention
- Lower Tuacahn Wash Detention Basin
- Fillmore Main
- Street Stormwater Improvements
- Herriman City Stormwater Masterplan
- Taylorsville Masterplan



NATE CHRISTENSEN, PE
Project Engineer

LOCATION:
Springville, UT

YEARS IN PROFESSION:
10; 3 with Sunrise

PERCENT OF TOTAL PROJECT: 10%

Qualifications:

- Expertise in drainage Design
- Expertise in sizing and design of storm drain pipelines
- Coordinates with multiple design disciplines to complete drainage designs

Project Experience:

- SR-60 from SR-168 to US-89
- ASI 8000 West Drainage and Storm Drain (60" Pipe)
- SR-9 Springdale, UT (15" to 48" Pipe)
- SR-108 Drainage and Storm Drain (Previous Employer)



DALE ROBINSON, PLS
Survey

LOCATION:
Salt Lake City, UT

YEARS IN PROFESSION:
29; 27 with Sunrise

PERCENT OF TOTAL PROJECT: 2%

Qualifications:

- Directs Sunrise Surveying Division
- Expertise in all aspects of survey: cadastral and boundary, mapping, planimetric, topographic, utility, construction right-of-way, easement, field engineering and 3D Scanning

Project Experience:

- Fillmore Main Street Drainage Improvements
- Myrtle Avenue Drainage Mitigation
- Riverview Drainage Improvements
- San Tan Lakeside Estates Drainage



Appendix A – Respondent Questionnaire

**ATTACHMENT A
RESPONDENT QUESTIONNAIRE**

1. **Respondent Information:** Provide the following information about yourself and your company.

Respondent Name: Sunrise Engineering, Inc.

(Note: give exact legal name as it will appear on the contract, if awarded.)

Address: 1481 East 5600 South, Suite E101

City: Ogden State: Utah Zip Code: 84403

Telephone No: 801.523.0100 Fax No: 801.523.0990

Business Structure:

Individual or Sole Proprietorship

Partnership

Corporation

Other; list business structure: _____

2. **Contact information:** List the one person who Weber County or their representative may contact concerning your proposal.

Name: Jared Andersen, PE

Address: 1481 East 5600 South, Suite E101

City: Ogden State: Utah Zip Code: 84403

Telephone No: 801.523.0100 Fax No: 801.523.0990

Email: jandersen@sunrise-eng.com

3. **References:** Give names of three people with whom you have worked on past projects of similar nature.

- a. Name: Paul Leishman (ASI 8000 West Roadway Design Drainage and Storm Drain Improvements)

Address: 990 N 8000 W

City: Mendon State: Utah Zip Code: 84325

Telephone No: 435.757.1138 Fax No: N/A

Email: paul.leishman@autonomoussolutions.com

- b. Name: Ryan Anderson, UDOT Region 4 PM (Fillmore Main Street Storm Drainage Study and Hydraulic Design)

Address: 210 West 800 South

City: Richfield State: Utah Zip Code: 84701

Telephone No: 435.979.4761 Fax No: N/A

Email: rlanderson@utah.gov

- c. Name: Daryl Ballantiyne, UDOT Region 1 PM (SR-60: SR-168 to US-89)

Address: 166 West Southwell Street

City: Ogden State: Utah Zip Code: 84404

Telephone No: 801.620.1682 Fax No: N/A

Email: dballantiyne@utah.gov



Appendix B - Conflict of Interest form

**ATTACHMENT B
CONFLICT OF INTEREST – DISCLOSURE STATEMENT**

Weber County
2380 Washington Blvd.
Ogden, Utah 84401

Name of Proposer: Sunrise Engineering, Inc.

Name of Project: Eden Acres Storm Drain Outfall

Stakeholders – Weber County, any affected land owners

Does Proposer, or any of Proposer’s employees, have any relationship or bias towards or against any stakeholder, developer, contractor or subcontractor, have any relationship or bias that may create the perception of bias, or have any other conflict of interest or potential conflict of interest?

YES (Myself or an employee, or member of my or employee’s immediate family, has a material, personal, or financial interest in or fiduciary relationship to the stakeholder, developer, general contractor or subcontractor.) *(Please use a separate form for each individual with a conflict or potential conflict, and complete all applicable portions of the form. Attach additional sheets as needed.)*

NO (Neither I nor any employee, or member of my or employee’s immediate family, has a material, personal, or financial interest in or fiduciary relationship to any stakeholder, developer, general contractor or subcontractor. Also, no other relationship with or bias towards any stakeholder, developer, general contractor or subcontractor exists which will prevent me (Proposer) from submitting a non-biased bid/proposal.) *(Please complete the Signature section below.)*

Related-Party Transactions or Independent Judgment Impaired

Name and position or title of individual with Conflict of Interest

Individual associated with Proposer: _____

Other party: _____

Individual associated with other party: _____

Relationship between identified individuals: _____

Description of transaction involving identified individuals and dollar amount (if any): _____

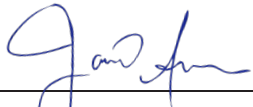
Decision-making authority of individuals with respect to that transaction: _____

Potential effect on this Contract with Weber County: _____

Signature

I hereby certify that the information I have given is true and complete to the best of my knowledge.

Name and Title of Person Completing Form (please print): Jared Andersen, PE
Project Manager

Signature: 

Date: May 28, 2020

Weber County reserves the right to make the sole determination of the appropriateness of the Proposer. Failure to disclose real or perceived conflicts of interest may result in Proposer's proposal/bid to be deemed non-responsive or contract to be voided.



Appendix C - Resumes



JARED ANDERSEN, PE

Jared has experience in small and large project management, roadway design and construction, wastewater design, culinary water design, stormwater design, and construction management. He also has design and management experience with surface runoff, debris basins, detention/retention facilities, bypass canals, bank stabilization, large diversion structures and large radial gate. Jared worked as Weber County Engineer for seven years and site development for previous ten years.



PROJECT MANAGER/POINT OF CONTACT

SUNRISE EXPERIENCE

- Kaysville 1.0 MG Tank
- Kennecott Utah Copper Civil/Structural Engineering Support
- Mountain Green SID Wastewater Master Plan
- Mountain Green SID Wastewater Treatment Expansion Feasibility Study
- Ogden Monroe Park
- SLCDPU 10th E 500 S PRV Station

ADDITIONAL EXPERIENCE WITH FORMER EMPLOYER

- | | |
|---|---|
| <ul style="list-style-type: none"> • Summit Pass Road Construction • Copper Crest Road Construction • Spring Park Road Construction • 12th Street Reconstruction • 12th Street Storm Water Culinary Water Improvements • 3500 West Reconstruction • Skyline Drive Construction • Nordic Valley Landslide Road Reconstruction • Depot Drive Extension Roadway Construction • 4000 North 2000 West Roadway Reconstruction and Culvert Installation • 500 South Reconstruction • SR-45 Overlay • River View Subdivision Roadway Design • Storm Water Master Plan Powder Mountain • Storm Water Master Plan Upper Valley Weber County • Storm Water Master Plan Lower Valley Weber County | <ul style="list-style-type: none"> • Multiple Bank Protection Site Weber River • Inundation Map Utaba Dam • Inundation Map Lower Weber River • Willard Canal Diversion Structure • Little Weber Diversion Structure • Little Weber Canal • Raibow Dike Upgrade • Storm Water Box Culvert Railroad Crossing • Ogden Bay South Run and North Run radial gates • Ogden Bay Waterfowl Management Structure Repair • 4000 North 2000 West Storm Water Bypass Project • Nordic Valley Landslide • Skyline Road Stormwater Upgrades • Uintah Detention Pond Structures • 2700 North Pleasant View Detention Pond Structures |
|---|---|

EDUCATION

- B.S. - Civil Engineering, Utah State University, 2002

YEARS IN PROFESSION

- 18; 1 with Sunrise

REGISTRATIONS

- Professional Engineer
- UT # 5047149

MEMBERSHIPS

- UFSMA Member
- APWA Member

AWARDS

- Denis Stuhff Award of Excellence 2017
- UC&D Outstanding Project - Ogden Bay Waterfowl Management Area Structure Repair 2014
- AGC Project of the Year Highways/Municipal Utilities Division - Ogden Bay Waterfowl Management Area Structure Repair 2014
- AGC Project of the Year Highways/Municipal Utilities Division - Little Weber Cutoff Project 2015
- APWA Storm Water Project of the Year - Emergency Watershed Little Weber Cutoff Channel Project 2016

DEREK ANDERSON, PE

Derek manages Sunrise’s Utah County office, and is an expert in all areas of water and wastewater system planning, design, and construction. His vast civil engineering project experience includes water/wastewater/irrigation master planning, water/wastewater/irrigation pipeline transmission, water/wastewater treatment, water storage, well and spring development, booster pump stations, storm drainage, site development, etc.

Derek also leads Sunrise’s environmental engineering group. He is an expert in hydrology, hydraulics, hydroelectric, hydrogeologic, geotechnical, geothermal, groundwater, and renewable energy engineering. He has experience preparing environmental documents including CLOMR and LOMR requests to the Federal Emergency Management Agency.



PRINCIPAL ENGINEER/QA/QC

DRAINAGE PROJECTS

- Avondale, Arizona City Center Drainage Master Plan Update
- Colorado City Stormwater Master Plan
- Fillmore Main Street Drainage Improvements
- Gunnison Flood Control
- Tuacahn Wash Detention Pond Dam
- Tom’s Canyon Flood Prevention
- VanBuren Street Drainage

CULINARY WATER IMPROVEMENT PROJECTS

- Provo City Culinary Water Projects 2019
- LiquaDry Water Engineering
- DDSSD Culinary Water Improvements
- Fairview Culinary Water Improvement Projects 2017
- Fillmore City Culinary Water District Improvements 2015
- GWSSA Water Improvements Project 2017
- Manila Water System Improvements Phase II
- Neola Water System Improvements
- Nephi City Culinary Water Improvements

WASTEWATER LIFT STATION PROJECTS

- Spanish Fork Regional Sewer Lift Station
- Orem City Carterville and Springwater Lift Stations
- Logan Smithfield Lift Station

WATER DISTRIBUTION PROJECTS

- Red Cliffs Lodge Well and Waterline
- Eagle Mountain Reuse Distribution Line
- Ogden Mouth of Canyon Transmission Line
- Ogden 23rd and 25th Street Transmission Line

WASTEWATER IMPROVEMENT PROJECTS

- Provo Sewer Lining and Bursting Projects
- Best Friends Wastewater Feasibility Study
- Eureka City Wastewater Improvements
- LiquaDry Wastewater Engineering
- Manila Wastewater Study 2015
- Manti Wastewater Treatment Improvement Project
- Ogden 27th Street Sanitary Sewer
- Stockton Town Wastewater
- Stonegate Wastewater Summary

WATER TREATMENT

- Ogden Water Treatment Plant
- Spring Creek Arsenic Water Treatment
- Springdale Town Water Treatment Plant
- Mt. Pleasant Water Treatment PER and EA
- Payson Raw Water Pipeline
- Stockton Town Treatment Feasibility Study
- John Kuhni & Sons Water Treatment Plant

EDUCATION

- M.S. – Civil and Environmental Engineering, Utah State University, 2006

YEARS IN PROFESSION

- 15; 14 with Sunrise

REGISTRATIONS

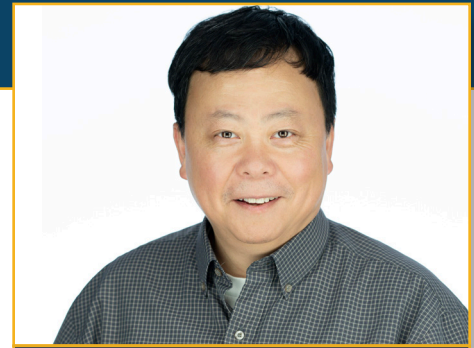
- Professional Engineer:
 - Utah No. 7549969
 - Nevada No. 022919
 - Idaho No. 15253
 - Wyoming No. 158493
 - New Mexico No. 24579



LI QI, PE

Li has extensive experience in water resources and civil engineering related projects. He is a licensed professional engineer registered in Arizona, Utah, and Wyoming, and an ASFPM certified floodplain manager. He has solid scientific knowledge in hydraulics, hydrology, mathematics and numerical modeling.

As a project engineer or project manager, Mr. Qi has worked on various categories of design and study projects since he joined Sunrise’s environmental division in 1998. These projects include natural and urban storm drainage, flood control, city storm drain systems, open channel hydraulics, two-dimensional surface water hydraulics, FEMA floodplain map revision, water supply systems (trunk and distribution lines, tanks, valve and pump stations), roadway drainage systems, hydroelectric power generation, dam safety, and drinking water source (well and spring) development and protection.



SENIOR PROJECT ENGINEER

STORM DRAIN EXPERIENCE

- SR-9 Rockville to Zion National Park Storm Drain, Springdale, Utah
- Fillmore Main Street Drainage Improvements, Fillmore, Utah
- City Center Drainage Master Plan Update, Avondale, Arizona
- Santa Clara Flood Retention Dam Replacement, Santa Clara, Utah
- Skyline 106 Drainage Study and Flood Control Design, Buckeye, Arizona
- Storm Water Management Study for Section 11 Centennial Project, Weld County, Colorado
- Herriman City Storm Drain Master Plan, Herriman, Utah
- Town of Mountain View Storm Water Master Plan, Mountain View, Wyoming
- Storm Drain System Design for I-15 between Utah County Line and 10600 South Interchange, Utah County, Utah
- Storm Drain System Design for Highway US-89 within Mapleton City Limits, Mapleton, Utah
- Centennial Gravel Mine Storm Water Management Study, Weld County, Colorado
- Caliente Drainage Study, Caliente, Nevada
- Van Buren Street – 99th Ave. To Agua Fria River Design Concept Report Flood Control District of Maricopa County, Avondale, Arizona
- Sylvester Gulch Access Road Design, West Elk Mine, Colorado
- Colorado City Stormwater Master Plan, Colorado City, Arizona
- Salem City Storm Water Runoff Evaluation, Salem, Utah
- Santa Clara Storm Water Master Plan Update, Santa Clara, Utah

ADDITIONAL EXPERIENCE

- Hydrologic/Hydraulic/Sediment Transport Analysis and Conceptual Flood Control Design for the Caliente Meadow Valley Wash Linear Park Improvements Project
- Van Buren Street – 99th Ave. To Agua Fria River Design Concept Report Flood Control District of Maricopa County - Avondale, Arizona
- Hydrologic Study for Magma Flood Retarding Structure (FRS) - Magma, Arizona
- Hydrologic Study for the Cove Fort-Sulphurdale Geothermal Development
- B Canal Inverted Siphon Culvert Hydraulic Design - Rupert, Idaho
- Scour Analyses at Crossing Structure on L 13 Canal, 8th Avenue and Lincoln

EDUCATION

M.S.-Hydraulics and River Dynamics, North China Institute of Water Conservancy and Hydropower

YEARS IN PROFESSION

31; 21 with Sunrise

REGISTRATIONS

- Professional Engineer:
 - UT # 324020
 - AZ # 36032
 - WY # PE9278
- Certified Floodplain Manager

MEMBERSHIPS

- American Society of Civil Engineers (ASCE)
- Association of State Dam Safety Officials (ASDSO)
- Association of State Floodplain Manager (CFM)





DAN HERBERT, PE

Dan has 10 years of experience specific to hydrology and drainage modeling. He has a been involved in high-profile projects such as the US-40, Bridgeland to Myton project, where his team designed several box culverts, to mitigate the storm drainage flows and provide access across the highway. He has a Master’s Degree in Civil Engineering, and a Bachelor’s Degree in Meteorology, both of which have helped Dan become an expert in his field. Dan is a consummate professional and always seeks to satisfy the goals of a project, while navigating the design challenges each project faces, and maintains excellent communication and organizational skills. These traits position Dan to provide excellent service to our clients. His involvement to this project will add value to the result.



PROJECT ENGINEER

PROJECT EXPERIENCE

- SR-60 from SR-168 to US-89
- ASI 8000 West Drainage and Storm Drain (60” Pipe)
- SR-9 Rockville to Zion National Park - Springdale, UT (15” to 48” Pipe)
- Herriman McCuiston Avenue Project
- Eagle Mountain Pony Express South Roadway Project
- Springdale SR-9 Power Easements
- Duchesne River Erosion Control
- UDOT ADA Ramp Investigations for Pavement Projects
- Kennecott Visitors Center Phase 1 Design
- Kennecott Mine Access Road Final Design
- Steinaker Overlook to Stauffer Chemical
- SR-190; Solitude Entry #1
- Mt. Pleasant Park Trail Construction Project
- Turning Lanes Near SR-141 Project
- Springville Eastside Spring Line Replacement Project 2017
- UDOT ADA Ramp Investigations for Pavement Projects
- Saddleback Pointe - Civil Engineering, Southwest Corner of Bangerter Highway and 2700 West
- Provo Culinary Water and Sanitary Sewer Projects
- GWSSA Sewer Line Extension
- Bluffdale Garage Condominiums - Garage Concepts
- Magnum - 2017 On-Call Services
- Purple - Concept Parking Plan Layout
- Talons Cove Subdivision

PREVIOUS EMPLOYER EXPERIENCE

- SR-108 Drainage and Storm Drain
- Utah County North County Blvd
- SLC State Street
- Saratoga Springs Pony Express Pkwy
- UVU Roundabout and Frontage Road
- Provo 300 South
- Camp Williams
- Lehi Hilton
- SR-108
- US-40, Bridgeland to Myton
- I-15, Ballast (Idaho)

EDUCATION

- M.S. - Civil and Environmental Engineering, University of Utah, 2015

YEARS IN PROFESSION

- 10; 3 with Sunrise

REGISTRATIONS

- Professional Engineer:
 - Utah No. 11307439



DALE ROBINSON, PLS

Dale is experienced in all aspects of survey, including cadastral/boundary survey, mapping, planimetric, topographic, and utility survey, construction survey, field engineering, right-of-way and easement surveys. He also has extensive experience in conventional and GPS field procedures, computer calculations, and map preparation using AutoCAD and Microstation software.



SURVEY

DESIGN SURVEY EXPERIENCE

- Draper City - On-Call Survey Services for Municipal Projects
- Herriman City - On-Call Survey Services for Municipal Projects
- Ogden City - Sewer Master Plan
- Western Energy Hub - Millard County - On-Call Survey Services for Industrial Development
- Arcadis - Paiute Pipeline - 4 Segments of 8” Steel Pipeline Replacement near Reno, Nevada
- Arcadis - Paiute Pipeline - 35-Mile 8” Steel Pipeline Construction near Elko, Nevada
- AECOM - CUWCD - Reverse Siphon Re-Build

ROUTE SURVEY EXPERIENCE

- Herriman City - Herriman Parkway to 6400 West
- Draper City - 300 E Widening
- Draper City - 13200 Widening
- Snyderville Basin - Kilby Road Design and Rights-of-Way Survey
- St. George, UT - Indian Hills Dr. Design and Rights-of-Way Survey
- Ivins, Utah - Center Street 200 East to Puerto Dr. Design and Rights-of-Way Survey
- Draper City - Traverse Ridge Highland Dr. to Suncrest Dr.
- Eureka City - Water Distribution and Sanitary Sewer Collection System Improvements

BOUNDARY SURVEY EXPERIENCE

- AgVictus 7000-Acre ALTA Survey of White Sage Farm in Millard County
- Western Energy Hub - Millard County - 1645-Acre ALTA Survey
- Devere Christensen - Box Elder County - 755-Acre ALTA Survey with riparian boundary
- Pavant Solar - Millard County - 3 ALTA Surveys for total of 2215-Acres
- ECG Solar - Millard County - 1730-Acre ALTA Survey

CONSTRUCTION SURVEY EXPERIENCE

- Long Canyon Mine - Big-D/Newmont, Wendover, NV
- F-Canyon, Crusher and Truckshop, Ames Construction - Nevada
- Mining Project - Cortez, Nevada
- Draper City - Galena Park Dr
- Sewer Construction Staking - Stockton, Utah

EDUCATION

- B.S. - Geography, Utah State University, 1990
- A.A.S. - Surveying, Salt Lake Community College, 2009

YEARS IN PROFESSION

- 29; 27 with Sunrise

REGISTRATIONS

- Professional Land Surveyor:
 - UT # 189369
 - AZ # 29271
 - CA # 8272
 - ID # 9303
 - NV # 13486
 - NM # 17536
 - WY # 17228

MEMBERSHIPS

- Utah Council of Land Surveyors (UCLS)
- Arizona Professional Land Surveyors APLS)
- Nevada Association of Land Surveyors (NALS) and the Civil Engineers Council of Utah (CECU)
- Contracted with Millard County as the County Surveyor 2009 to present
- State Chair UCLS 2015-2017
- Utah Director, National Society of Professional Surveyors (NSPS). 2019-2023

JASON HOGGARD, EIT

Jason is an engineer-in-training with experience with planning, design, and construction administration for various municipal projects in Utah and Wyoming. He has been involved in a range of culinary water projects including water storage tanks, pumphouses, site design and grading, GIS, parks and recreation, master plans, and several municipal waterline replacement projects. His expertise with AutoCAD Civil 3D and AutoCAD MEP have made him a valuable asset to the team. He has experience working with both small municipalities and large industrial clients such as Rio Tinto Kennecott Utah Copper Corporation.



ENGINEERING SUPPORT

WATER STORAGE TANK EXPERIENCE

- Kaysville 1.0 MG Water Tank
- Eagle Mountain 3.5 MG Tank
- Layton Valley View Tank
- Park City Kings Crown Water Storage Tank
- Strawberry Bay Expansion 250,000 Gallon Water Storage Tank

BOOSTER PUMP STATION EXPERIENCE

- Kaysville 1.0 MG Water Tank Booster Pump Station

SITE GRADING EXPERIENCE

- Kennecott Visitors Center Phase I
- Kennecott Utah Copper Corporation EWR Access Road
- Kennecott Mine Access Road Final Design

WATER TREATMENT EXPERIENCE

- Payson Water Treatment Plant Final Design

WATER TRANSMISSION LINE EXPERIENCE

- Herriman 5.0 MG Tank Supply Line
- Herriman City Old Town Waterline Replacement
- Kaysville 1.0 MG Water Tank Transmission line
- Park City Kings Crown Water Storage Tank transmission line
- White City Tulip Drive Waterline
- SLCDPU - Parley's Bypass and Hydropower
- Weber Basin Water Conservancy District South Weber 24" Waterline Replacement

PARKS AND RECREATION EXPERIENCE

- South Jordan Pickleball Courts
- Splash Pads USA General Engineering Requests

WATER MASTER PLAN EXPERIENCE

- Ogden Water Master Plan Update

EDUCATION

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

YEARS IN PROFESSION

- 2; 2 with Sunrise



TYLER ROBERTS, EIT

Tyler is an engineer-in-training with expertise in culinary water, stormwater, wastewater, and water drainage. He has experience assisting project managers with design drawings and bid document edits. He also has experience conducting topographic surveys and construction staking surveys and coordinating construction staking schedule with contractors.



ENGINEERING SUPPORT

WATER STORAGE TANK EXPERIENCE

- Kaysville 1.0 MG Water Tank
- Eagle Mountain 3.5 MG Tank
- Layton Valley View Tank
- Park City Kings Crown Water Storage Tank

BOOSTER PUMP STATION EXPERIENCE

- Kaysville 1.0 MG Water Tank Booster Pump Station

PRV EXPERIENCE

- SLCDPU 10th E. 500 S. PRV Station

SEWER LIFT STATION EXPERIENCE

- Gafco LLC Sewer Lift Station Drawings and Design
- Provo City Carterville Lift Station
- Orem City Springwater Lift Station

WATER TRANSMISSION LINE EXPERIENCE

- Herriman 5.0 MG Tank Supply Line
- Herriman City Old Town Waterline Replacement
- Kaysville 1.0 MG Water Tank Transmission line
- Park City Kings Crown Water Storage Tank transmission line
- SLCDPU - Parley's Bypass and Hydropower
- White City Tulip Drive Waterline

PARKS AND RECREATION EXPERIENCE

- South Jordan Pickleball Courts
- West Jordan City Ron Wood Park Phase III

STRUCTURAL EXPERIENCE

- Thanksgiving Point - Golf Course Irrigation Pond Liner Design

FORMER EMPLOYER EXPERIENCE

- Construction Staking Coordination - Preston, ID Main Street Re-stripping
- Zion's Bank Storm Drain Design
- Logo Shop Storm Drain Design
- Sunrise Point Townhouse Site Development & Utility Design (Ogden, UT)

EDUCATION

- B.S. - Civil Engineering Utah State University, 2019

YEARS IN PROFESSION

- 3; 1 with Sunrise



JEFF PUTZKE

Jeff has significant experience as a broadcast meteorologist and environmental journalist. He has provided multiple emcee appearances through public outreach campaigns for community leaders, charitable groups non-profit organizations. More recently, Jeff spearheaded an energy sustainability program with Provo School District which included communication, newsletter publication and regular training presentations for relevant stakeholders. Jeff is expert in the use of social media platforms as a means of public interaction. He holds a seal of approval through the American Meteorological Society for outstanding communication.



PUBLIC INVOLVEMENT

PROFESSIONAL EXPERIENCE

- **500 West Sewer Addition, Ashley Valley Water & Sewer District**
PI coordination for all internal/public stakeholders along a 1.5 mi route in Vernal City, Utah. Project includes phone hotline, email inquiries, construction notice distribution, monthly onsite construction meetings, public meeting coordination
- **Fillmore City Wastewater Phase VI 100 East Extension**
- **Salt Lake City Department of Utilities PRV Station Replacement**
- **Ron Wood Park Phase III, West Jordan City**
Responsible for assessing and reporting on public open house and social media quantitative and qualitative comments on behalf of West Jordan City and design architects
- **Mid-Valley Fire District Campaign, Star Valley Ranch**
PR Manager on a multi-city effort to acquire petition signatures for upcoming ballot initiative. Campaign includes organizing a committee, local digital/hard copy advertising and door-to-door outreach.
- **US 6-Juab County Roadway Preservation, UDOT (Spring 2020)**
PI coordination for internal/public stakeholders along an 8 mi route. Project includes phone hotline, email inquiries, construction notice distribution, monthly onsite construction meetings.

PR & Community Relations Highlights:

- Interact frequently with the public, community leaders, local advertisers, event sponsors, charitable groups
- Emcee and volunteer community outreach for local non-profit, government and private organizations
- Coordinate with air and water district officials to disseminate public-impact information statements
- Research and report on numerous environmental and tech story opportunities through live feature segments
- Maintained an environmental, climate and renewable energy blog/forum through social media portals

EDUCATION

BS - Meteorology, St. Cloud State University
BS - Aviation Science, St. Cloud State University

YEARS IN PROFESSION

5; 1 with Sunrise



Unit Rate Evaluation

COST PROPOSAL

SOLICITATION # 20-134

Bidder Name: Sunrise Engineering, Inc.

- List the name, job title and hourly rate for any proposed personnel. Also include the approximate percentage of project to be performed by each person:

Name: <u>Jared Andersen</u>	Title: <u>Project Manager</u>	\$ <u>162</u>	/ hour	<u>15</u> %
Name: <u>Derek Anderson</u>	Title: <u>QA/QC</u>	\$ <u>199</u>	/ hour	<u>2</u> %
Name: <u>Li Qi</u>	Title: <u>Senior Engineer</u>	\$ <u>183</u>	/ hour	<u>2</u> %
Name: <u>Dan Herbert</u>	Title: <u>Project Engineer</u>	\$ <u>129</u>	/ hour	<u>10</u> %
Name: <u>Dale Robinson</u>	Title: <u>Survey</u>	\$ <u>185</u>	/ hour	<u>2</u> %
Name: <u>Jason Hoggard</u>	Title: <u>Engineering Support</u>	\$ <u>99</u>	/ hour	<u>33</u> %
Name: <u>Tyler Roberts</u>	Title: <u>Engineering Support</u>	\$ <u>99</u>	/ hour	<u>31</u> %
Name: <u>Survey Crew</u>	Title: <u>Survey</u>	\$ <u>150</u>	/ hour	<u>5</u> %

Total Average \$ / hour \$119.40

- Provide expected reimbursable expenses and rates associated to them. Specify if the rate is hourly, daily, etc.

Expense: <u>Utility Pothole \$1,000/Pothole</u>	\$ <u>10,000</u>	
Expense: _____	\$ _____	
Expense: _____	\$ _____	
Expense: _____	\$ _____	

Any deviation from this format may result in disqualification for proposal

Eden Acres Drainage Project

(P&I)

Phase Task	Work Task Description	Principal Engineer	Engineer V	Engineer IV	Engineer III	Engineer Intern (E.I.T.) I	Administrative II	Public Involvement Specialist	Direct Costs	Mileage	(hours)	(\$)
0001	Land Acquisition											
001	Document Review QA/QC	2	8			16					26	\$3,278
002	Research Maps/Deeds/Ownership		4			20					24	\$2,628
003	Compiling Acquisition Documents		4			10	8				22	\$2,254
											Subtotal	\$8,160
0002	Storm Drain Design											
001	Design Review	2	8	8	4						22	\$3,674
002	Infrastructure Layout		4			20					24	\$2,628
003	Storm Water Runoff Calculations		8	8		8					24	\$3,552
004	Street Drainage Assessment		4			16					20	\$2,232
005	Storm Drain Inlet Design		4			16					20	\$2,232
006	Storm Drain Pipe Design		4			24					28	\$3,024
007	Outflow Design		4	4		12					20	\$2,568
											Subtotal	\$19,910
0003	Construction Documents											
001	Drainage Report	2	8	4	16	16	4				50	\$6,382
002	Construction Drawings		8		4	32	4				48	\$5,288
003	Construction Specifications	2	8		4	16	4				58	\$4,102
											Subtotal	\$15,772
0004	Misc. Outreach/Stakeholder Meetings											
001	County Meetings		16								16	\$2,592
002	Public Outreach Meetings		16								16	\$2,592
003	Stakeholder Meetings		8								8	\$1,296
											Subtotal	\$6,480
0005	Direct Costs											
001	Pothole Data Collecting					8			\$10,000.00		8	\$10,792
002	Landscape Specialist								\$ 5,000.00			\$5,000
											Subtotal	\$15,792
	Sub-total Hours/Miles/Days	8	116	24	28	214	20	0		0	434	
	Hourly Billing Rate	\$199.00	\$162.00	\$183.00	\$129.00	\$99.00	\$77.00	\$106.00	\$0.00	\$0.59		
	Total Dollars	\$1,592	\$18,792	\$4,392	\$3,612	\$21,186	\$1,540	\$0	\$15,000	\$0		
TOTAL											\$66,114	

EDEN ACRES ESTIMATED SCHEDULE

Sunrise Engineering

Project Start Date	6/23/2020 (Tuesday)	Display Week	1
Project Lead	Jared Andersen		

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26							
	22 Jun 2020	29 Jun 2020	6 Jul 2020	13 Jul 2020	20 Jul 2020	27 Jul 2020	3 Aug 2020	10 Aug 2020	17 Aug 2020	24 Aug 2020	31 Aug 2020	7 Sep 2020	14 Sep 2020	21 Sep 2020	28 Sep 2020	5 Oct 2020	12 Oct 2020	19 Oct 2020	26 Oct 2020	2 Nov 2020	9 Nov 2020	16 Nov 2020	23 Nov 2020	30 Nov 2020	7 Dec 2020	14 Dec 2020							
WBS	TASK	LEAD	START	END	DAYS	% DONE	WORK DAYS																										

1	Base Map Survey(Provided by County)																																
1.1	Field Survey		Tue 6/23/20	Thu 7/16/20	24	0%	####																										
1.2	Utility Location		Tue 6/23/20	Thu 7/16/20	24	0%	####																										
1.3	Process CAD Data/Create Surface		Tue 6/23/20	Thu 7/16/20	24	0%	####																										
2	Land Documentation																																
2.1	Document Review		Tue 6/23/20	Wed 9/02/20	72	0%	####																										
2.2	Research Maps/Deed/Ownership		Tue 6/23/20	Wed 9/02/20	72	0%	####																										
2.3	Acquisition/Cost to Cure Documents		Tue 6/23/20	Sat 12/19/20	180	0%	####																										
3	Storm Drain Design																																
3.1	Infrastructure Layout		Thu 7/16/20	Fri 8/14/20	30	0%	####																										
3.2	Storm Water Runoff Calculations		Thu 7/16/20	Fri 8/14/20	30	0%	####																										
3.3	Street Drainage		Thu 7/16/20	Fri 8/14/20	30	0%	####																										
3.4	Storm Drain Inlet		Thu 7/16/20	Fri 8/14/20	30	0%	####																										
3.5	Storm Drain Pipe		Thu 7/16/20	Fri 8/14/20	30	0%	####																										
3.6	Outflow Design		Thu 7/30/20	Sat 9/12/20	45	0%	####																										
4	Final Documents																																
4.1	Drainage Report		Sat 8/15/20	Sun 9/13/20	30	0%	####																										
4.2	Construction Drawings		Sat 8/15/20	Sun 9/13/20	30	0%	####																										
4.3	Construction Specifications		Sat 8/15/20	Sun 9/13/20	30	0%	####																										
5	Misc. Outreach/Stakeholder Meetings																																
5.1	Public Outreach Meetings		Tue 6/23/20	Sat 12/19/20	180	0%	####																										
5.2	Stakeholder Meetings		Tue 6/23/20	Sat 12/19/20	180	0%	####																										

TEMPLATE ROWS

See the Help worksheet to learn how to use these template rows. You can hide these rows before printing.

[Level 1 Task, Category, or Phase]			
1.1 [Level 2 Task]	-	0%	0
1.1.1 [Level 3 Task]	-	0%	0
1.1.1.1 [Level 4 Task]	-	0%	0

[► Watch How to Create a Gantt Chart in Excel](#)