

**RFQ# ADSPO14-00003465, Annual Request for Qualifications and Experience
REVISED - Attachment I – General Qualifications**

(If a firm has branch offices, complete for each specific branch office seeking work.)

1. REVISED ADSPO13-00003465: Annual Request for Qualifications

a.	FIRM (OR BRANCH OFFICE) NAME:	Sunrise Engineering, Inc.
b.	FIRM (OR BRANCH OFFICE) STREET:	2152 S. Vineyard, Suite 123
c.	FIRM (OR BRANCH OFFICE) CITY:	Mesa
d.	FIRM (OR BRANCH OFFICE) STATE:	Arizona
e.	FIRM (OR BRANCH OFFICE) ZIP CODE:	85210
f.	YEAR ESTABLISHED:	1978 (Firm); 1985 (Mesa Office)
(g1).	OWNERSHIP - TYPE:	Utah Sub-S Corporation
(g2).	OWNERSHIP - SMALL BUSINESS STATUS:	Not a Small Business
h.	POINT OF CONTACT NAME AND TITLE:	Gregory Potter, P.E.
i.	POINT OF CONTACT TELEPHONE NUMBER:	480.768.8600
j.	POINT OF CONTACT E-MAIL ADDRESS:	gpotter@sunrise-eng.com
k.	NAME OF FIRM <i>(If block 1a is a branch office):</i>	Sunrise Engineering, Inc.

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2. EMPLOYEES BY DISCIPLINE

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees - Firm	d. No. of Employees - Branch
CADD Technician	P	23	6
Chemical Engineer	S	1	1
Civil Engineer	P	36	3
Civil Engineer	S	10	3
Construction Manager	P	21	6
Construction Manager	S	1	1
Construction Inspector	P	12	0
Electrical Engineer	P	2	0
Electrical Engineer	S	4	0
Environmental Engineer	P	1	1
Environmental Engineer	S	2	0
Geodetic Surveyor	P	11	5
Geodetic Surveyor	S	5	1
Geographic Information System Specialist	P	2	0
Hydraulic Engineer	S	2	0
Hydrologist	S	1	1
Landscape Architect	S	1	1
Other	P	39	3
Project Manager	P	3	2
Project Manager	S	42	0
Technician/Analyst	P	16	2
Water Resources Engineer	S	4	1
Total		166	28

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3. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST YEAR

a. Approximate No. of Projects	b. Experience	c. Revenue Index Number <i>(see below)</i>
30	Construction Surveying	5
1	Dams (Earth; Rock); Dikes; Levees	3
30	Digital Elevation and Terrain Model Development	3
25	Electrical Studies and Design	4
5	Environmental Impact Studies, Assessments or Statements	1
1	Fisheries; Fish Ladders	2
500	Gas Systems (Propane; Natural, Etc.)	5
5	Geodetic Surveying: Ground and Airborne	1
20	Highways; Streets; Airfield Paving; Parking Lots	4
15	Housing (Residential, Multi-Family; Apartments; Condominiums)	4
5	Irrigation; Drainage	4
30	Land Surveying	3
5	Phase I Environmental	1
25	Sewage Collection, Treatment and Disposal	6
30	Surveying; Platting; Mapping; Flood Plain Studies	3
5	Storm Water Handling and Facilities	4
30	Topographic Surveying and Mapping	4
25	Transportation	5
15	Water Resources; Hydrology; Ground Water	3
30	Water Supply; Treatment and Distribution	6
5	Waste Water Treatment Facility	5
10	Water Well Rehabilitation; Water Well Work	4

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- | | |
|---|---|
| 1. Less than \$100,000 | 6. \$2 million to less than \$5 million |
| 2. \$100,000 to less than \$250,000 | 7. \$5 million to less than \$10 million |
| 3. \$250,000 to less than \$500,000 | 8. \$10 million to less than \$25 million |
| 4. \$500,000 to less than \$1 million | 9. \$25 million to less than \$50 million |
| 5. \$1 million to less than \$2 million | 10. \$50 million or greater |

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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section 4 for each key person.)

a. NAME Gregory Potter, P.E.		b. ROLE IN THIS CONTRACT Water Resources Team Leader		c. YEARS EXPERIENCE	
				1. TOTAL 20	2. WITH CURRENT FIRM 20
d. FIRM NAME AND LOCATION (City and State) Sunrise Engineering, Inc. – Mesa, Arizona					
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S. in Civil Engineering, Arizona State University			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Arizona #35581 – Professional Engineer Utah #266266-2202 – Professional Engineer		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Potter is an active member in the Arizona Chapters for the American Society of Civil Engineers' (ASCE), the American Public Works Association's (APWA), the American Floodplain Management Association (AFMA) and Valley Partnership. Mr. Potter's experience includes project management, budgets, schedules, quality assurance, quality control and construction phasing, and a broad range of projects types. However, the main focus of his twenty year career at Sunrise Engineering has been in the study, computer modeling, master planning, engineering, and the design and construction administration of water systems. His project experience includes: distribution projects for new waterlines and the renovation and reconstruction of older water systems; water campus facilities including concrete and steel water storage tanks, hydro-pneumatic tanks, booster pumps and equipment buildings; membrane filtration treatment plants; well drilling and equipping; and spring development.					

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) City of Payson's C.C. Cragin Raw Water Resource Supply Project – Payson, AZ	(2) Year Completed	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Potter is currently serving as the Project Manager for this \$5,000,000 contract which includes the preliminary design of the 12 mile long transmission main, the final design and studies for the tailrace connection, raw water pipeline and new hydroelectric generating station (Phase I), equipment piloting and water treatment plant preliminary design (Phase II), and overall project management assistance and support services as needed for other phases of the project.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2)	(1) TITLE AND LOCATION (City and State) Pine Creek Canyon Domestic Water Improvement District's Portal IV Deep Well – Pine, AZ	(2) Year Completed	
		Professional Services 05/2010	Construction (if applicable) 04/2011
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Potter served as the Project Principal for this \$27,900 contract which included equipping of a new deep well for PCCDWD's existing water system. The new well was intended to provide a redundant well with more capacity for the system by drawing from a new deep aquifer. The well drilling was performed to a depth of 1,680 feet with a yield of approximately 150-gpm. The scope of work for this project included the survey, basemapping, well equipping and yard piping design, electrical design, and permitting. Post Design Services included construction observation, submittal review and RFI response, as-built plan preparation and New Source Approval through ADEQ.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3)	(1) TITLE AND LOCATION (City and State) Town of Queen Creek's Victoria 1,000,000 Gallon Tank & Well Conversion – Queen Creek, AZ	(2) Year Completed	
		Professional Services 03/2007	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Potter served as the Project Principal for this \$36,900 contract which included the design of a new 1,000,000-gallon steel water storage tank, the conversion of an existing 1,100-gpm agricultural well to a potable water well, discharge piping to an existing irrigation system for daily start-up, interconnecting piping, booster pumps, hydro-pneumatic tank and chlorination system. Sunrise coordinated design efforts with the Town of Queen Creek, ADWR and MCESD.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4)	(1) TITLE AND LOCATION (City and State) Thunderbird Farms Water Improvement District's Tank, Well & Booster Pumps – Pinal County, AZ	(2) Year Completed	
		Professional Services 2002	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Potter served as the Project Manager for this \$80,000 contract which included the drilling of a new 1200-foot deep 12-inch water well and the addition of a well pump and related equipment to produce approximately 400 gallons per minute of highly needed source capacity for the system. Other project components included a new 500,000-gallon storage tank, chlorination equipment, additional booster pump, yard piping and miscellaneous improvements to meet the needs of the system.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5)	(1) TITLE AND LOCATION (City and State) Ash Fork Water Service's Water Improvements Project – Ash Fork, AZ	(2) Year Completed	
		Professional Services 12/2003	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Potter served as the Project Manager for this \$100,000 contract which included a water system study to identify system needs, evaluate improvement options, identify the project scope and prepare cost estimates of needed improvements for the water system. Upon acceptance of the water system study the project moved forward in the design and construction phase. The ultimate project consisted of 5,600-feet of new water transmission line, well house, chlorination equipment and 4,000-feet of distribution system improvements. Sunrise secured funding and approvals for the project.	<input checked="" type="checkbox"/>	Check if project performed with current firm

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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT *(Complete one Section 4 for each key person.)*

c. NAME Tyson Glock, P.E.	d. ROLE IN THIS CONTRACT Wastewater Team Leader	c. YEARS EXPERIENCE	
		1. TOTAL 5	2. WITH CURRENT FIRM 2.5
d. FIRM NAME AND LOCATION <i>(City and State)</i> Sunrise Engineering, Inc. – Mesa, Arizona			

e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. in Environmental Engineering, Oregon State University; M.Eng in Chemical Engineering, Oregon State University	f. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Arizona #52543 – Professional Engineer
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g. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Mr. Glock is an active member in the Arizona Chapters for Arizona Water Association (AZ Water), Home Builders Association of Central Arizona (HBACA) and Valley Partnership. Prior to joining Sunrise Engineering, Mr. Glock spent four years gathering experience in the industry as an Environmental Technician, an Engineering Aide, a Geotechnical Technician and a Staff Engineer. His experience to date includes: site investigations for both public and private entities; municipal permitting processes for Right-of-Way, well installation and abandonment, and construction and use permits; feasibility studies and site characterization reports for Wastewater Treatment Plants; preliminary design work of Water Treatment Plants; and fieldwork supervision of SVE system installations, ground/vapor well installations and abandonments, removals of septic tanks and site demolitions.

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION <i>(City and State)</i> Big Park's Wastewater Treatment Plant Replacement/Expansion – Big Park, AZ	(2) Year Completed	
		Professional Services 07/2011	Construction <i>(if applicable)</i> 06/2014 (Estimated)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Mr. Glock served as the Project Manager for this \$535,000 contract which included: a feasibility study for options to replace/upgrade the existing WWTP and to dispose of the treated effluent; the analysis of four treatment alternatives, three discharge options and two alternatives to meet new setback requirements; and evaluation/recommendation of a .65 MGD Single train Biolac system capable of servicing all equipment without taking the system offline.		
2)	(1) TITLE AND LOCATION <i>(City and State)</i> City of Payson's C.C. Cragin Water Treatment Plant – Payson, AZ	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Mr. Glock is currently serving as the Project Engineer for this \$133,000,000 portion of the larger C.C. Cragin contract which includes a new 4.5MGD Water Treatment Plant. The WTP includes water storage, pre-treatment, membrane filtration, GAC polishing, backwash handling facilities, sludge handling facilities and other facilities. Sunrise Engineering assisted the Town in the site selection, membrane equipment selection (Pall Water Processing), piloting of the equipment and preliminary design of the water treatment which included site planning, hydraulic profile, process diagrams, building floor plan and preliminary design report.		
3)	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		
4)	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		
5)	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		

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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section 4 for each key person.)

e. NAME Tony Elley, R.L.S., CFedS	f. ROLE IN THIS CONTRACT Survey Team Leader	c. YEARS EXPERIENCE	
		1. TOTAL 20	2. WITH CURRENT FIRM 14.5
d. FIRM NAME AND LOCATION (City and State) Sunrise Engineering, Inc. – Mesa, Arizona			

e. EDUCATION (DEGREE AND SPECIALIZATION) Coursework in Boundary Law & Boundary Corner Determination	f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Arizona #43994 – Registered Land Surveyor & Certified Federal Surveyor Colorado #0038239 – Registered Land Surveyor & Certified Federal Surveyor Utah #8101874-2201 – Registered Land Surveyor & Certified Federal Surveyor
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g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Elley is an active member of the Arizona Professional Land Surveyors Association (APLS), Home Builders Association of Central Arizona (HBACA) and Valley Partnership. He began his surveying career in 1993 and has performed numerous survey assignments to include mapping, right of way and boundary surveys, legal descriptions, mining claims (retracement), industrial mapping, as-built and existing utility surveys, NGS blue booking, ALTA's, final plats and construction staking. He manages the survey operations in Sunrise's Phoenix metro office, overseeing the activities of three survey crews and additional registrants and has extensive experience with both conventional and GPS surveys.

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) Southwest Gas' On-Call Survey Services– Maricopa & Pinal Counties, AZ & Clark County, NV	(2) Year Completed	
		Professional Services 07/2009	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE For approximately 9 years, Mr. Elley served as the Project Manager for on-call Land Survey services for Southwest Gas Corporation. Approximately 650 jobs ranging in value from \$500 to \$50,000 and totaling almost \$2 million in gross invoicing were completed. Project scopes included: Right-of-Way Surveys and weld cataloging, boundary surveys, profile (pipeline design) surveys, as-built surveys, legal descriptions and easement exhibits, and construction staking (including Signal Butte, Ellsworth Road, Sossaman Road, Hawes Road and Power Road in Queen Creek, Arizona).	<input checked="" type="checkbox"/> Check if project performed with current firm	
2)	(1) TITLE AND LOCATION (City and State) Qwest's On-Call Land Surveying Services – Statewide, AZ	(2) Year Completed	
		Professional Services 12/2010	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Elley served as the Project Manager for on-call Land Survey services for Qwest Corporation on a weekly for approximately 2.5 years and for 12 months from 2002 to 2003. He performed over 1,000 jobs totaling over \$1,400,000 in gross invoicing with an average of \$1,350 per project. In the past eight years, Sunrise has performed Right-of-Way surveys, boundary surveys, construction staking, as-built surveys and easement exhibits for Qwest. In 2007, Sunrise signed a new contract with Qwest and have completed all assignments throughout the state of Arizona within the limited time constraints required by Qwest personnel.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3)	(1) TITLE AND LOCATION (City and State) City of Casa Grande's Citywide Control Network – Casa Grande, AZ	(2) Year Completed	
		Professional Services 07/2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Elley served as the Project Manager for this \$23,210 contract to establish benchmarks on a one-mile grid throughout the City and establish a citywide Vertical Datum. Using Trimble GPS Receivers, crews observed/measured the positions of 67 existing monuments at the direction of Terry McKeon PE (City Engineer). Seven National Geodetic Survey (NGS) monuments were utilized as control and redundant RTK observations were performed for each of the benchmarks established.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4)	(1) TITLE AND LOCATION (City and State) ADOT's MSE Walls High Definition Laser Scanning – Phoenix, AZ	(2) Year Completed	
		Professional Services 12/2010	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Elley served as the Survey Manager for this contract to provide HD Scanning of the US-60 (Grand Ave) MSE Walls from approximately just south of Thomas Rd to the northwest across the railroad tracks at 27th Ave. The scope was for an initial scan of the MSE Walls, as they are slowly subsiding / settling and the panels are beginning to fall. ADOT will use Sunrise's HD Scanning capability to monitor of these walls for movement over an extended period of time.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5)	(1) TITLE AND LOCATION (City and State) City of Mesa's Downtown Construction Staking – Mesa, AZ	(2) Year Completed	
		Professional Services 12/2011	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Elley served as the Survey Manager for this \$12,500 contract to provide Construction staking and as-builts of approximately two miles of new waterline, sanitary sewer line, natural gas pipeline and storm drain. Due to the location in downtown Mesa, the site was very congested with existing business and underground utilities. Survey crews assisted in redesigning significant portions of the job in order to avoid existing utilities and structures while maintaining local businesses operations. All of the design changes and modification made during construction were documented in the signed construction as-builts.	<input checked="" type="checkbox"/> Check if project performed with current firm	

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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section 4 for each key person.)

g. NAME Ricky Holston, P.E., LEED AP, CFM		h. ROLE IN THIS CONTRACT Drainage Team Leader		c. YEARS EXPERIENCE	
				1. TOTAL 14	2. WITH CURRENT FIRM 8.5
d. FIRM NAME AND LOCATION (City and State) Sunrise Engineering, Inc. – Mesa, Arizona					
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S. in Civil Engineering, San Diego State University			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Arizona #43301 – Professional Engineer California #67363 – Professional Engineer New Mexico #20643 – Professional Engineer		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Elley is an active member of the Association of State Floodplain Managers (ASFPM), American Society of Civil Engineers (ASCE), Home Builders Association of Central Arizona (HBACA) and Valley Partnership. The main focus of his career at Sunrise has been in the area of drainage design and planning including: hydrology and hydraulic studies, design concept reports, HEC-RAS analysis, drainage studies, hydrologic and hydrograph modeling, feasibility alternatives, drainage mitigation and erosion control culvert crossings and drainage channel conveyance structures, diversion structures, split-flow analysis' and FEMA Letter of Map Revisions. In addition, Mr. Holston is also a LEED Accredited Professional and has completed extensive training in Storm Water Pollution Prevention Planning (SWPPP).					

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) Flood Control District of Maricopa's Van Buren Street Drainage Design Concept Report Phase I – Avondale, AZ	(2) Year Completed	
		Professional Services 10/2010	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Holston served as the Project Manager for this \$103,500 contract which included a DCR for storm water conveyance along Van Buren to alleviate flooding at the intersection of Van Buren and 99 th Avenue. Tasks included collection/compilation of existing utility and general base mapping information from several sources; manipulation/analysis of the existing hydrology models and rainfall data for the project; and creation/ analysis of existing and future hydrologic/hydrograph models. The team also created exhibits for each of three alternative design concepts and 100 scale Conceptual Design Plan and profile drawings for the selected design alternative.		
2)	(1) TITLE AND LOCATION (City and State) Ward Development's Sky Wash Alluvial Fan Apex Regional Drainage Solution – Buckeye, AZ	(2) Year Completed	
		Professional Services 08/2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Holston served as the Project Manager for this \$82,500 time and materials contract which included improvement plans for the development of Phoenix Skyline West II, an existing 215 lot subdivision left un-platted since the 1970's due to the site's floodway and floodplain designation. An alluvial fan hydraulic study was performed to verify that 100-year/2-hour storm event flow depths did not exceed maximum requirements for emergency vehicle access. Additionally, three alternative conceptual designs were completed as a regional solution for the area, each of which required hydrologic and hydraulic modeling and routing of the apex flows.		
3)	(1) TITLE AND LOCATION (City and State) City of Mesa's Southeast Water Treatment Plant Security Upgrades – Mesa, AZ	(2) Year Completed	
		Professional Services 03/2010	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Holston served as the Project Manager for this \$45,000 contract which included the design of security and drainage upgrades for the City's Water Reclamation Plant. Scope included a new block retaining wall, grading of slopes, storm drain and drainage ditches, an existing retaining wall retrofit and an automatic sliding entry gate. Deliverables included: construction drawings for the new wall; repair of the existing wall; drainage improvements; permanent erosion control design; cost estimates; plans and details including electrical specifications for a new rolling security gate; and complete special provisions.		
4)	(1) TITLE AND LOCATION (City and State) New Harquahala Generating Company's Off-Site Drainage – Tonopah, AZ	(2) Year Completed	
		Professional Services 08/2011	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Holston served as the Project Manager for this \$10,200 contract which included the updated study and professional recommendation regarding the integrity of an existing berm constructed for flood protection. Sunrise conducted field visits to delineate the contributing water shed and a network of irrigation canals, ditches and farm roads. Using the latest County methods, Sunrise determined the flow will safely be conveyed around the site with adequate freeboard.		
5)	(1) TITLE AND LOCATION (City and State) Town of Gilbert's San Tan Boulevard Drainage Channel – Gilbert, AZ	(2) Year Completed	
		Professional Services 03/2007	Construction (if applicable) 02/2009
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Holston served as the Project Engineer for this \$73,000 contract which included the design of two culvert crossings and a sand bottom channel to convey the flow north across San Tan Blvd then west in an 800 foot long channel and then under Tucana Lane and finally west to the project limits where it resumed as sheet flow. The first culvert crossing consisted of three 36 inch equivalent CMP arch pipes. Arch pipe was specified to minimize impacts to the desired roadway profile. The crossing at Tucana Lane utilized two 2' x 8' x 115' precast box culverts with cast in place head walls. Approvals were required by the Army Corp of Engineers and the Town of Gilbert.		

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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section 4 for each key person.)

i. NAME Geoffrey Child, P.E.	j. ROLE IN THIS CONTRACT Transportation Team Leader	c. YEARS EXPERIENCE	
		1. TOTAL 14	2. WITH CURRENT FIRM 10.5
d. FIRM NAME AND LOCATION (City and State) Sunrise Engineering, Inc. – Mesa, Arizona			

e. EDUCATION (DEGREE AND SPECIALIZATION) B.S. in Civil Engineering, Utah State University; M.S. in Construction, Arizona State University	f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Arizona #41184 – Professional Engineer; Idaho #12936 – “” “” California #67822 – Professional Engineer; Montana #PEL-PE-LIC-18919 – “” “” Utah #375046-2202 – Professional Engineer
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g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Child is an active member of the American Society of Highway Engineers (ASHE), the American Society of Civil Engineer’s Construction Institute (ASCE-CI) and the American Public Works Association (APWA). Prior to joining Sunrise Engineering, Mr. Child worked for the Arizona Department of Transportation for three and a half years. He spent two years in their EIT Rotational Program and a year and a half as a Transportation Engineering Specialist/Project Supervisor in their Phoenix Construction District. His recent experience includes serving as project manager for several City of Mesa projects including over five miles of arterial roadway reconstruction, over 23 miles of residential and minor collector ADA upgrades and overlays, and two miles of 16-inch waterline along Signal Butte Road.

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) City of Tempe’s Broadway & Priest Intersection Improvements - Tempe, AZ	(2) Year Completed	
		Professional Services 09/2009	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Child served as the Project Manager for this \$500,000 contract which included civil engineering and surveying services for the addition of a right turn lane, 2 bus bays, ADA upgrades, signal modifications, street lighting, geotechnical investigations, signing and striping, and pavement overlay design. Services provided included conceptual layouts, field investigations, utility research, geometrics, general civil design and survey services.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2)	(1) TITLE AND LOCATION (City and State) City of Tempe’s Bus Bays – Tempe, AZ	(2) Year Completed	
		Professional Services 07/2008	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Child served as the Project Manager for this \$138,400 contract which included a preliminary design for nine potential bus bays. Using the preliminary designs, Sunrise collaborated with Tempe staff to determine which six locations would be carried through to final design and which types of pullout configurations, shelters and site layouts would be best suited for final design. The final design included final layout of curbs, gutters and sidewalks, as well as grading, drainage and ADA considerations. In addition, Sunrise Engineering coordinated with the traffic and engineering sub-consultants as well as the electrical sub-consultant on the electrical design.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3)	(1) TITLE AND LOCATION (City and State) City of Mesa’s Arterial Reconstruction – Mesa, AZ	(2) Year Completed	
		Professional Services 04/2010	Construction (if applicable) 2015 (Estimated)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Child served as the Project Manager for this \$189,000 contract which included reconstruction documents for 6+ miles of arterial street revitalization (full depth asphalt pavement rehabilitation). Upgrades to all of the ADA sidewalk ramps within the project were also completed in order to be compliant with current ADA standards, and sidewalk were added to several sections in order to complete the ADA routes. This project had to be completed within an extremely tight schedule so that the City could try to meet their deadlines to qualify for funding from the ARRA.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4)	(1) TITLE AND LOCATION (City and State) Town of Fountain Hill’s Fountain Hills Boulevard – Fountain Hills, AZ	(2) Year Completed	
		Professional Services 04/2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Child served as the Project Supervisor for this \$104,900 contract which included the paving of dirt shoulders from Segundo Drive to Pinto Drive (approximately 1.4 miles). Final improvements will include new five-foot shoulder paving on both sides of the road and overall intersection improvements. The paving of these shoulders will reduce particulates in the air and provide additional safety for pedestrians. This project is an ADOT Local Government project using CMAQ funding to complete the work.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5)	(1) TITLE AND LOCATION (City and State) City of Phoenix’s Cave Creek Road Design Concept Report – Phoenix, AZ	(2) Year Completed	
		Professional Services 03/2007	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Child served as the Project Manager for this \$20,000 contract which included the evaluation of potential improvements for Cave Creek Road, the purpose of which was to identify the overall scope and cost estimates for the design, right-of-way and construction of the project. The Scoping Report contained a general description to show existing/proposed conditions for impacted roadways within the corridor. The project’s scope also included researching and plotting existing rights-of-way to determine conceptual right-of-way needs for the project which would provide data on existing properties/parcels and indicate potential right-of-way takes based on geometric layout.	<input checked="" type="checkbox"/> Check if project performed with current firm	

**RFQ# ADSP014-00003465, Annual Request for Qualifications and Experience
REVISED - Attachment I – General Qualifications**

5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT	
<i>(Present no more than five (5) projects. Complete one Section 5 for each project.)</i>	

a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
C.C. Cragin Raw Water Resource Supply Project	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION		
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c. PROJECT OWNER	d. DOLLAR AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Town of Payson	\$5,000,000 (Design)	30% Complete, On-Budget

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(include scope, size, and length of project)*

The Town of Payson has secured a 3,000 ac-ft annual allocation of water from the C.C. Cragin Reservoir. The Town plans to divert its allocation of water from the existing Hydroelectric Power Plant, operated by the Salt River Project (SRP), on the downstream side of the power generation turbine. The water will be diverted into a new raw water pipeline (Phase I) and delivered to a new water treatment plant (Phase II). Once the water is treated to drinking water standards it will be delivered via a treated water pipeline (Phase III) into the Town's drinking water system. The scope of work for this contract includes the preliminary design and studies for the raw water pipeline (Phase I) and support services as needed for other phases of the project. The main goals for the end of this project was to have the information required to complete the Environmental Assessment for the project and Preliminary Design/Plans that will be used in the solicitation of a Design-Build Team to complete the design and construction of the project.

The scope of work for this contract includes the preliminary design of the 12 mile long transmission main, the final design and studies for the tailrace connection, raw water pipeline and new hydroelectric generating station (Phase I), equipment piloting and water treatment plant preliminary design (Phase II), and overall project management assistance and support services as needed for other phases of the project. A brief description of this on-going project's major components and services are as follows:

Tailrace Connection: In order for the Town to receive their water right a connection was necessary to the existing SRP hydroelectric facility located at the headwaters of the East Verde River. This portion of the project includes a tailrace connection concrete box, meter vault, valving, piping and other appurtenances. The challenges for this project include the limited space for construction, rock excavation and environmentally sensitive area. Our project team had to coordinate with the Tonto National Forest and Salt River Project (SRP) for the approvals.

Raw Water Penstock: After the tailrace connection the project included a 13.5 mile long, 18" diameter transmission main to deliver water to a new hydroelectric facility. The alignment for the project is located adjacent to Houston Mesa Road in through the Tonto National Forest. This pipeline will be constructed of ductile iron and steel pipe due to the pressures experienced in the pipeline and longevity of the materials. In addition, the project included air/vacuum relief valves, valving and cathodic protection. Some of the challenges for this portion of the project are rock excavation, tight working conditions along the roadway, over 70 culvert crossings and 3 crossings of the East Verde River.

Hydroelectric Generating Station: Hydroelectric (renewable) power generation can be generated based on the elevation difference (approximately 550-feet) between the Tailrace Connection and WTP site and flow. At the design head and flow rate, a small Pelton turbine will produce approximately 234 kilowatts of power. The power generated will primarily be used to run the WTP and excess sold back to the power company. Sunrise worked with the Town on the preliminary and final design of this facility which included the turbine equipment selection, electrical design, valving, bypass sleeve valve design and control strategy between the WTP, tailrace connection and hydro generator.

Water Treatment Plant: Because C.C. Cragin Water is a surface water source a WTP is required to treat the water to drinking water standards. The new 4.5MGD WTP includes water storage, pre-treatment, membrane filtration, GAC polishing, backwash handling facilities, sludge handling facilities and other facilities. Sunrise Engineering assisted the Town in the site selection, membrane equipment selection (Pall Water Processing), piloting of the equipment and preliminary design of the water treatment which included site planning, hydraulic profile, process diagrams, building floor plan and preliminary design report. One challenge to the project was the need to develop a way to mitigate the creation of disinfection-by-products (DBP's) within the treated water. Our team worked to include a pre-treatment regimen of adding PACl and post-treatment with granular activated carbon (GAC) within the treatment train on the pilot to effectively reduce the DBP formation to levels well below the maximum contaminate level.

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REVISED - Attachment I – General Qualifications**

5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION <i>(City and State)</i> Big Park Wastewater Treatment Plant Replacement/Expansion	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 08/2012	CONSTRUCTION <i>(If applicable)</i> 06/2014 (Estimated)

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Big Park Wastewater Improvement District	d. DOLLAR AMOUNT OF PROJECT \$535,000 (Design)	e. TOTAL COST OF PROJECT \$535,000 (Design)
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Sunrise Engineering was contracted to perform a feasibility study for options to replace/upgrade the existing WWTP and to dispose of the treated effluent. Big Park's current plant was aging and designed without any means to repair/maintain equipment below the waterline in their DAVCO system. Also, the old DAVCO plant was not meeting phosphorus (0.1 mg/L) or nitrogen (1 mg/L) discharge standards to the Verde River. On top of that, the District had sold connections that exceeded the current capacity of the plant. Another issue facing the District was setback requirements. The increase in plant capacity had also increased the setback requirements to existing as well as future equipment - new requirements of which provided no space for new equipment and put the existing equipment out of compliance with their permit.

The District needed a new plant that could upgrade the existing capacity of their system from 0.5 MGD to 0.65 MGD, that had the means to repair/maintain all equipment while providing wastewater treatment, and whose effluent could to meet the Verde River discharge standards. The district also needed a way to meet the new setback requirements for existing and future equipment.

Sunrise analyzed four treatment alternatives, three discharge options and two alternatives to meet the setback requirements. The final recommendation was to install a 0.65 MGD, single train Biolac system that has the unique capability of servicing all equipment without taking the system offline. The Biolac system combined with the new district selected continuous backwashing sand filter has the ability to meet the Verde River discharge standards. As for the effluent, Sunrise recommended the district increase the quantity of water being sent to a golf course with the goal of 100% reuse. The ability to discharge to the Verde River was still crucial as a contingency in case the golf course could not accept the water. Sunrise also identified a number of properties that could be purchased to meet the new setback requirements of the WWTP.

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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION <i>(City and State)</i> Casa Grande Citywide Control Network	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 07/2012	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER City of Casa Grande	d. DOLLAR AMOUNT OF PROJECT \$23,210	e. TOTAL COST OF PROJECT \$23,210
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

The City of Casa Grande communicated to Sunrise Engineering (SEI) the need to establish benchmarks throughout the City. Sunrise Engineering proposed an economic solution to this need. Sunrise Engineering was contracted to establish a Citywide Vertical Datum. The City of Casa Grande requested 60 Benchmarks on a 1 mile grid within the City limits. Greg Smith, the City engineer, informed Sunrise that the City had never established City benchmarks or an approved vertical datum.

Using Trimble GPS Receivers, SEI survey crews observed/measured the positions of 67 existing monuments at the direction of Terry McKeon PE (City Engineer). The observations were post processed utilizing the NGS service called "OPUS". The Vertical Datum for the benchmarks is The North American Vertical Datum of 1988 (NAVD88). 7 National Geodetic Survey (NGS) monuments were utilized as control and redundant RTK observations were performed for each of the benchmarks established.

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REVISED - Attachment I – General Qualifications**

5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION <i>(City and State)</i> Van Buren Street Drainage Design Concept Report Phase I	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 07/2010	CONSTRUCTION <i>(If applicable)</i> 01/2016 (Estimated)

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Flood Control District of Maricopa County	d. DOLLAR AMOUNT OF PROJECT \$103,500 (Design)	e. TOTAL COST OF PROJECT \$103,500 (Design)
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Sunrise Engineering was contracted by Maricopa County Flood Control District to complete a Design Concept Report for a storm water conveyance structure or channel along Van Buren Street in Avondale Arizona. The purpose of the project was to look at ways to alleviate flooding at Van Buren and 99th Avenue and if possible reduce retention requirements for the Avondale City Center project. The project analyzed existing and future conditions and recommended alternatives to convey flow along Van Buren Street to the Agua Fria River. The study went on to select one of three alternatives for which the conceptual design documents were to be created. The City ultimately decided a 100-yr sized option was not within budget.

Project tasks included: collection and compilation of existing utility and general base mapping information from several sources; manipulation and analysis of the existing hydrology models and rainfall data for the project; and creation and analysis of existing and future hydrologic and hydrograph models. Additional project tasks included the preparation of numerous memorandums and reports including Hydrology Technical Memo, Data Collection Memo, and Preliminary Alternatives Memo.

Furthermore the design team created exhibits for each of three alternative design concepts and 100 scale Conceptual Design Plan and Profile drawings for the selected design alternative. The design team is currently scoping out a phase 2 study to look at 10-year event sized facilities in hopes of bringing costs down to manageable levels.

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REVISED - Attachment I – General Qualifications**

5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION <i>(City and State)</i> Solarez Phase II Curb, Gutter & Sidewalk Improvements	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 05/2012	CONSTRUCTION <i>(If applicable)</i> 10/2012

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Town of Guadalupe	d. DOLLAR AMOUNT OF PROJECT \$45,000 (Design)	e. TOTAL COST OF PROJECT \$45,000 (Design)
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

The Town of Guadalupe selected Sunrise Engineering under a multiple year, task order contract as the Town Engineer. Services primarily will encompass design for roadway and drainage projects within the Town limits, but can also include review, cost estimates and other engineering support services as needed. The first assignment for this contract included the Solarez Phase II project.

The Solarez Phase II project was completed as part of a Community Development Block Grant (CDBG) rehabilitation project. Constructed in the early 1960s, the neighborhood's streets were a pavement section that only included pavement. This project added 8,400 feet of rolled curb and sidewalks on both sides of all streets including ADA compliant curb ramps at corner and mid-block locations. The design also incorporated driveway retrofits and specialty curb ramps in some locations. Work included completion of plans and specifications, cost estimates, construction administration and construction observation services.

6. ADDITIONAL INFORMATION

a. PROVIDE ANY ADDITIONAL INFORMATION YOU FEEL MAY BE NECESSARY TO DESCRIBE YOUR FIRMS QUALIFICATIONS. (ATTACH ADDITIONAL SHEETS AS NEEDED.)

PARTNERING WITH CLIENTS TO ACHIEVE SUCCESS

Sunrise Engineering establishes partnership relationships with our clients in order to develop solutions that work best within the client's constraints. Our goal is to achieve an optimal balance between cost and operational performance. We recognize that there are multiple solutions to every problem, and that both economic and operational trade-offs with local practices and preferences must be weighed when choosing feasible alternatives.

Sunrise's longevity within the engineering industry is largely attributed to the success of this partnership approach and the enthusiasm of our repeat clients in referring our services. As a testament to this, Sunrise was again awarded the **National PSMJ Premier Client Satisfaction Award in 2013 (for services provided in 2012) for the fourth year in a row.** Based solely upon anonymous Client Feedback, this award honors only those A/E/C firms who provide their clients with top quality communications, impressive performance and cost effective solutions. As one of only six firms awarded this international honor, Sunrise Engineering exceeded the average award winner with 89% of our scores at **"Exceeded Expectations"** or above and the majority of our scores landing in the highest bracket; **"Exceptional."** We also received additional recognition for top scores in the category of **"Managing Budgets."**

UNIQUE SERVICE CAPABILITIES - HD LASER SCANNING

One of the services that distinguish Sunrise Engineering is our ability to provide high definition (HD) laser scanning for our clients. HD Survey utilizes a laser to capture millions of 3-dimensional points. The resulting "point cloud" is used to create highly detailed and accurate base mapping. The level of detail and accuracy is such that even a paint stripe can be visible in the point cloud.

Typical applications include quantifying inaccessible roadway cuts or fills, quantifying irregular or inaccessible stockpiles, mapping of intersections for design (especially where drainage patterns are not clear or are of extreme importance), overhead clearances, accurate mapping of pavement especially critical where matching of existing paving is necessary, and mapping of otherwise inaccessible or highly detailed areas. We have also used this technology successfully in mapping water campuses and treatment plants for various clients.

Although not appropriate for all situations, when used the cost is comparable to conventional techniques and the amount of information it provides is superior. **The increase in available data eliminates the need to interpolate between shots and therefore minimizes the occurrence of errors in design.**

7. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

a.	Percentage of Total Work Attributable to State, Federal and Municipal Government Work:	40%
b.	Percentage of Total Work Attributable to Non-Government Work:	60%

8. AUTHORIZED REPRESENTATIVE. The foregoing is a statement of facts.

Signature: 

Date: December 12th, 2013

Name: Gregory Potter, P.E.

Title: Principal/Vice President

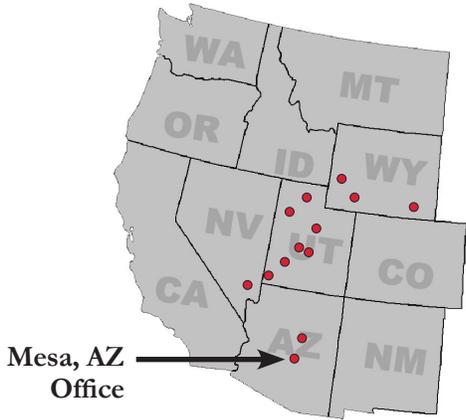
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Arizona Department of Administration

General Information

DESCRIPTION OF FIRM/TEAM

Founded in 1978 and headquartered in Fillmore, Utah, Sunrise Engineering is a full-service Civil Engineering and Surveying firm that has been providing professional design and consulting services for state agencies, government agencies and municipalities throughout the western region of the United States for 35 years. More importantly, **Sunrise has been operating in Arizona since 1985** and has since accumulated a wealth of experience on a wide range of projects including Hydrology/Hydraulics, Surveying, Transportation, Wastewater and Water projects. As reflected in the map to the left, Sunrise Engineering has multiple office locations and can supply both the services and expertise required by our clients in the western region of the United States. Additionally, all proposed staff members are currently based out of our local Mesa office and reside within the Phoenix metropolitan area.



Mesa, AZ
Office

Sunrise Engineering, Inc.
2152 S. Vineyard, Suite 123
Mesa, Arizona 85210
480.768.8600



Sunrise Engineering exceeded the average award winner, with 89% of its scores at **“Exceeded Expectations”** or above and the majority of its scores landing in the highest bracket; **“Exceptional.”**



Corporate Leadership
Evan Simpson, P.E. - President/CEO

Arizona Mesa Office
Gregory Potter, P.E. - VP/Principal
Geoffrey Child, P.E. - Principal
Tony Elley, R.L.S., CFedS - Principal
Dave Dirren, C.E.T. - Principal

FAMILIARITY WITH LOCAL/COUNTY/STATE STANDARDS

Our Mesa office has extensive experience providing services to clients throughout Arizona, especially within the counties of Maricopa and Pinal - we are familiar with the local municipalities’ processes and procedures and in many cases have long-standing working relationships with some of their key personnel. We also have extensive experience providing municipal engineering and on-call services to clients in and around the Phoenix Metropolitan area including the City’s of Phoenix, Mesa, Chandler, Tempe, Eloy, Casa Grande, Apache Junction, Coolidge and the Towns of Queen Creek and Fountain Hills.

REPUTATION & QUALITY

In recognition of Sunrise’s commitment to **“Creating Solutions That Work and Relationships that Last,”** we were recently awarded the PSMJ Premier Client Satisfaction Award for the fourth year in a row (2010 through 2013) for services provided in 2009, 2010, 2011 and 2012. This International Award is based solely upon anonymous Client Feedback and honors only those A/E/C firms who provide their clients with top quality communications, impressive performance and cost effective solutions. Winners are selected based on both the quality of feedback received and the quantity of respondents. The average evaluation of Sunrise Engineering centered in the range of **“Exceeded Expectations”** and Sunrise Engineering even **received additional recognition for scoring top in the category of Budget Management.**

CERTAINTY OF STAFF REGARDLESS OF THE ECONOMY

Regardless of fluctuations in the economy, the Arizona Department of Administration (ADOA) can rely on the certainty of Sunrise Engineering’s staff. As part of the day-to-day operations of keeping a successful business going, our principals are intimately involved with every project, as will be the case with any assigned ADOA projects . The chart to the left represents our organization as it relates to our Mesa office’s Corporate Leadership. The direct involvement and vested interest of local Principals coupled with a low company turn-over rate assures not only a dependable team for ADOA’s contract, but also drives the team’s quality service standards to support a win-win-win for everyone involved. We strive for quality because we understand that **“You are only as good as your last project.”**

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Arizona Department of Administration

Transportation Services

At-A-Glance

Intersections
Bus Bays
Planning
Road & Highway Design
Drainage
Right-of-Way
Utility Coordination
Bridge Design
Permitting
Construction Administration

Drainage Services

At-A-Glance

Master Drainage Studies
Hydrology & Hydraulics
Flood Control Design
FEMA Applications
Storm Water Pollution Prevention
Storm Drain Design

Surveying Services

At-A-Glance

Boundary Survey
Topographic Survey
Construction Staking
Easements
Right-of-Way
HD Laser Scanning

Water Services

At-A-Glance

Treatment Facilities
Distribution Systems
Master Planning
Storage Facilities
Pump Stations
Pumping Facilities
Electrical/Energy Management
SCADA Design
Source Development

Wastewater Services

At-A-Glance

Wastewater Collection Systems
Wastewater Treatment Facilities
Wastewater Master Planning
Lift Stations
Effluent Reuse
Transmission Pipelines

THE RIGHT-SIZED FIRM FOR ANY ADOA PROJECT

Small Enough for Rapid Responses: With approximately 30 local technical experts and a variety of support staff, Sunrise's Arizona office is small enough to give you the quick responses that ADOA deserves. Arizona registered staffing resources available for this project include:

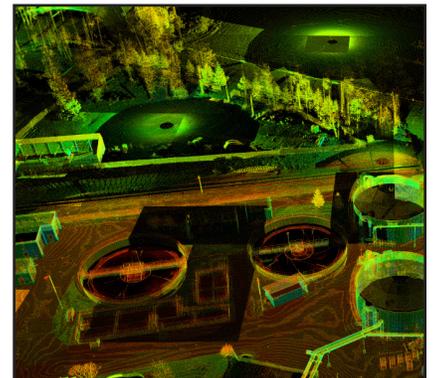
- 4 AZ Registered P.E.s (17 AZ Registered P.E.s company-wide)
- 4 AZ Registered E.I.T.s
- 3 AZ Registered Land Surveyors
- Certified Federal Surveyors (CFedS)
- LEED Accredited Professionals
- CAD Technicians
- Construction Inspectors
- Miscellaneous Support Staff

Large Enough to Meet Your Resource Needs: Sunrise currently employs approximately 170 service-oriented individuals throughout the company. That means that we can draw from our company-wide resources should ever the need arise to supplement our local staff in order to meet the resource needs of ADOA. *Bigger isn't always better...but the Right-Sized Firm will ALWAYS best address ADOA's needs!*

Unique Service Capabilities - HD Laser Scanning: One of the services that distinguishes Sunrise Engineering is our ability to provide high definition (HD) laser scanning for our clients. HD Survey utilizes a laser to capture millions of three-dimensional points. The resulting "point cloud" is used to create highly detailed and accurate base-mapping. The level of detail and accuracy is such that even a paint stripe can be visible in the point cloud.

Typical applications include quantifying inaccessible roadway cuts or fills, quantifying irregular or inaccessible stockpiles, mapping of intersections for design (especially where drainage patterns are not clear or are of extreme importance), overhead clearances, accurate mapping of pavement especially critical where matching of existing paving is necessary, and mapping of otherwise inaccessible or highly detailed areas. We have also used this technology successfully in mapping water campuses and treatment plants for other clients.

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Point Cloud of Water Treatment Plant

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Arizona Department of Administration

Reference Information

Sunrise Engineering's success and longevity within the Arizona market is largely attributed to the enthusiasm of our repeat clients in referring our services. Our client's confidence in our engineers and their capabilities has led to multiple long-term relationships and alliances as well as years of successful projects. We welcome you to contact the references provided herein as testament to the service we will provide for ADOA.



"During the course of each project, the Town made many changes and Sunrise dealt with them very well...overall, I would rate their performance as exceptional."

~ **Tom Narva**
Sr. Project Manager, CIP
Town of Queen Creek

"We are thrilled to death with Sunrise's performance...so far they have exceeded every expectation, especially with our customer service."

~ **Bill Fay, P.E., Esq.**
City of Maricopa
(Previously w/City of Chandler)

"Sunrise is a valuable partner for the CC Cragin Surface Water Supply project. Their engineering talent on this complex project has been vital to its success to date."

~ **Buzz Walker,**
Asst. Public Works Director
Town of Payson

Town of Queen Creek, Arizona

Paul Gardner
Utilities Department Director
480.793.892 (Ph)

Tom Narva
Sr. Project Manager, CIP
480.358.3137 (Ph)

Town of Payson, Arizona

Buzz Walker
Assistant Public Works Director
928.474.5242

LaRon Garrett, P.E.
Public Works Director
928.474.5242

City of Mesa, Arizona

Fred Rustam, P.E.
Deputy Engineer
480.644.4688

Joel Watson, P.E.

Sr. Civil Engineer
480.644.3392

City of Chandler, Arizona

John Knudson, P.E.
Senior Engineer
480.782.3590

Ray Buglion, P.E.
Project Manager,
Capital Projects Division
480.782.3319

City of Casa Grande, Arizona

Terrence McKeon, P.E.
Civil Engineer
520.421.8625

Town of Guadalupe, Arizona

Bill Hernandez
Town Manager
480.505.5368