



Request for Qualifications
 Solicitation No.
ADSP017-00006796
 Description:
2017 Annual Professional Services List

Arizona Department of
 Administration
State Procurement Office
 100 N 15th Ave., Suite 201
 Phoenix, AZ 85007

Part 4 of the Solicitation Documents:
Offer Forms
 (Attachments)
 Date: [February 7, 2017](#)

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Attachment 1
Offer and Acceptance Form

SUBMISSION OF OFFER: Undersigned hereby offers and agrees to provide qualifications for **2017 Annual Professional Services List** in compliance with the Solicitation indicated above and our Offer indicated by the latest dated version below:

Initial Offer:	1.	2/15/2017	SS
	date		initial

Stantec Consulting Services Inc.			SS
Offeror company name	Signature of person authorized to sign Offer		Initials
8211 South 48th Street	Scot Schlund, PE, Managing Senior Principal		
Address	Printed name and title		
Phoenix, Arizona 85044	Scot Schlund, PE, Managing Senior Principal		
City State ZIP	Contact name and title		
11-2167170	scot.schlund@stantec.com, (602) 707-4651		
Federal tax identifier (EIN or SSN)	Contact Email Address	Contact phone number	

CERTIFICATION: By signature in the above, Offeror certifies that it:

- will not discriminate against any employee or applicant for employment in violation of Federal Executive Order 11246, [Arizona] State Executive Order 2009-9 or A.R.S. §§ 41-1461 through 1465;
- has not given, offered to give, nor intends to give at any time hereafter any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a public servant in connection with the submitted offer. Failure to provide a valid signature affirming the stipulations required by this clause will result in rejection of the Offer. Signing the Offer with a false statement will void the Offer, any resulting contract, and may be subject to legal penalties under law;
- complies with A.R.S. § 41-3532 when offering electronics or information technology products, services, or maintenance; and
- is not debarred from, or otherwise prohibited from participating in any contract awarded by federal, state, or local government.

ACCEPTANCE OF OFFER: State hereby **accepts the initial Offer**, Revised Offer, or Best and Final Offer identified by number **ADSP017-00006796** at the top of this form, and which was dated 02/15/17 (the Accepted Offer). Offeror is now bound (as Contractor) to carry out the Work under the attached Contract, of which the Accepted Offer forms a part. Contractor is cautioned not to commence any billable work or to provide any material or perform any service under the Contract until Contractor receives the applicable Order or written notice to proceed from Procurement Officer.

State's Contract No. is: **ADSP017-00006796** The effective date of the Contract is: 04/03/17-01/31/18 Contract awarded 04/03/17

 Procurement Officer signature	Gina DeCotiis Procurement Officer printed name
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Contract qualification award can be viewed at <https://spo.az.gov/procurement-services/professional-services>



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Attachment 2-A
Experience and Capacity

STATE MAY DETERMINE YOUR SUBMITTAL IS NON-RESPONSIVE IF YOU DO NOT ANSWER ALL QUESTIONS FULLY.

DEFINITIONS

Architect Services, Engineer Services, Land Surveying Services, Assayer Services, Geologist Services and Landscape Architect Services: Those professional services within the scope of the practice of those services as provided in A.R.S § 32-101.

Branch Office: A geographically distinct place of business or subsidiary office of a firm that has a key role on the team.

Discipline: Primary technical capabilities of key personnel, as evidenced by academic degree, professional registration, certification, and/or extensive experience.

Firm: Defined in A.R.S § 32-101(B.13.).

Key Personnel: Individuals who will have major contract responsibilities and/or provide unusual or unique expertise.

Structure: How a business is organized to accomplish its objectives (ie, Sole Proprietor, Limited Liability Company, Cooperative, Corporation, Partnership, S Corporation).

1.0 Five (5) Example Projects

List no more than five (5) **ARIZONA PROJECT** Example Projects Which Best Illustrate Firms Qualification for this contract in the chart provided below. Select project where multiple team members worked together, if possible, that demonstrate the team’s capability to perform work similar to that required for this qualifications list contract. (NOTE: The integrity of the chart table columns shall remain unchanged, however the rows for each project may be expanded by the Offeror to accommodate the information).

- a. Title and Locations of project or contract. For an indefinite delivery contract, the location is the geographic scope of the contract.
- b. Enter the year completed of the professional services (such as planning, engineering study, or design), and/or the year completed if construction. If any of the professional services or the construction projects are not complete, leave Year Completed blank and indicate the status in Brief Description of Project and Relevance to This Contract (block f).
- c. Project Owner or user, such as a government agency or installation, an institution, a corporation or private individual.
- d. Provide the original budget or not to exceed dollar amount for the project.
- e. Provide the Total Cost of the Project. If any of the professional services or construction projects is not complete, indicate the percentage complete and whether this project will be on budget, over or under budget.
- f. Brief Description: Indicate scope, size, and length of project, principle elements and special features of the project. Discuss the relevance of the example project to this contract.



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Title and Location of Project	Design Completion Year	Construction Completion Year	Project Owner	Project Original Budget (or not to exceed amount)	Total Cost of the Project	Brief Description of Project
Maricopa County On-Call Plan Review and Inspection Services; Maricopa County, Arizona	Ongoing	N/A	Maricopa County	Budgets varied for this on-call contract by task assignment.	Costs varied for this on-call contract by task assignment; however, we regularly complete our work on time and within the established budget.	Stantec currently serves as Building Official Consultant for approximately 20 cities, towns, counties, and Native American communities throughout Arizona, including Maricopa County, where we provide a combination of building code consulting, inspections, management, and plan review services. Our team of skilled plan review and inspection experts has been working with the county for more than a decade, working on numerous projects throughout the County, including several high profile projects, such as the Abener Teyma Solana Solar Plant and the Maricopa County Court Tower. Services offered include: <ul style="list-style-type: none"> • Plan Review • Inspection



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Title and Location of Project	Design Completion Year	Construction Completion Year	Project Owner	Project Original Budget (or not to exceed amount)	Total Cost of the Project	Brief Description of Project
Arizona Department of Environmental Quality – Master Tank Contract; Arizona	Ongoing	N/A	Arizona Department of Environmental Quality	Budgets varied for this on-call contract by task assignment.	Costs varied for this on-call contract by task assignment; however, we regularly complete our work on time and within the established budget.	<p>We are currently working with ADEQ at various locations to perform soil and groundwater remediation of petroleum hydrocarbon contamination from leaking underground storage tanks (LUSTs). We provide a combination of soil and groundwater remediation activities, including:</p> <ul style="list-style-type: none"> • Planning and management • Regulatory reporting • Soil classification and sampling • Installation of groundwater and remediation wells • Groundwater monitoring and sampling • Air quality permitting and compliance • Remedial pilot testing activities • Design, construction, and operation of remedial systems • Optimization of remedial system performance • Coordination and disposal of associated waste • Shallow soil vapor assessments to evaluate vapor inhalation exposure risk • In-situ chemical oxidation • Remedial excavation • Well abandonment • Remedial system decommissioning

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Powerline, Vineyard Road, and Rittenhouse Flood Retarding Structures On-Call; Maricopa, Arizona	Ongoing	Ongoing	Flood Control District of Maricopa County	\$5,500,000	Project is approximately 60% complete and on budget.	<p>We are providing design services to decommission one flood retarding structure (FRS) and rehabilitate the others. Powerline FRS will be decommissioned and replaced with a drainage channel that will outfall to the Vineyard FRS. Rittenhouse FRS will be raised and new principal and auxiliary spillways will be constructed that discharge to the Vineyard FRS. The Vineyard FRS embankment will be raised to accommodate the additional inflow and new principal and auxiliary spillways will be constructed. Our services include:</p> <ul style="list-style-type: none"> • PMP/PMF Hydrology • Two-dimensional flood routing • NRCS Sites methodology • Principal outlet and auxiliary spillway hydraulics and design • Embankment design • Structural design • Construction documents • Project management • Coordination with the CMAR • Cultural and environmental mitigation • Agency coordination • Permitting



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Mariposa Land Port of Entry (POE) Expansion and Modernization; Nogales, Arizona	2014	2014	GSA Pacific Rim Region	\$156 M (Const. Value)	\$156 M (Const. Value)	<p>Stantec completely redesigned the extremely constrained Mariposa Land POE site. We were responsible for design for the demolition of the existing facilities (43-acre site) and expansion (12.6 acres) necessary to accommodate the growth in cross border traffic. We were continuously communicating with the client, US General Services Administration, and all key stakeholders, including the Department of Homeland Security, Customs and Border Protection, US Army Corps of Engineers, Santa Cruz County Flood Control District, City of Nogales, and Arizona Department of Transportation. Our services included:</p> <ul style="list-style-type: none"> • Grading and Earthworks • Infrastructure Design and Rehabilitation • Intelligent Transportation Systems • Civil/Site Development • Stormwater Management • Land Surveying • Traffic Signals and Signage • Water Storage Facilities • Land Acquisition Mapping • Building Information Modeling (BIM) • Communication Systems • Roadway • Utility • Drainage

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Title and Location of Project	Design Completion Year	Construction Completion Year	Project Owner	Project Original Budget (or not to exceed amount)	Total Cost of the Project	Brief Description of Project
Luke Air Force Base On-Call Engineering Services (Wastewater, Water, Stormwater, Planning); Glendale, Arizona	Ongoing	Ongoing	Luke Air Force Base	Budgets varied for this on-call contract by task assignment.	Costs varied for this on-call contract by task assignment; however, we regularly complete our work on time and within the established budget.	Stantec has continuously provided a full range of services to Luke AFB since 1988 through on-call contracts. Some of our projects have included: <ul style="list-style-type: none"> • Luke AFB Sewer Study • Luke AFB Water Study Luke AFB 400 and 900 Area Chill Facilities Design • Luke AFB Water Storage Tank and Arsenic Treatment System • Luke AFB Safe Drinking Water Act Implementation Plan • Luke AFB WWTF Analysis Services provided include: <ul style="list-style-type: none"> • Water • Sewer • Pollution Prevention • Land Use Planning • Site • Development • Facility Space Utilization Optimization Studies • Architecture • Structural • Roadway Layout and Design • Mechanical, Plumbing, Electrical • Energy Audits • Construction Oversight

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2.0 EMPLOYEES BY DISCIPLINE

Aeronautical Engineer	Electrical Engineer	Mechanical Engineer
Agricultural Engineer	Environmental Engineer	Metallurgical Engineer
Archeologist	Environmental Scientist	Mining Engineer
Architect	Fire Protection Engineer	Nuclear Engineer
Architectural Engineering	Geodetic Surveyor	Petroleum Engineer
Biologist	Geographic Information System Specialist	Photogrammetrist
CADD Technician	Geological Engineer	Project Manager
Chemical Engineer	Geologist	Sanitary Engineer
Civil Engineer	Hydrographic Surveyor	Soils Engineer
Construction Manager	Hydraulic Engineer	Structural Engineer
Construction Inspector	Hydrologist	Technician/Analyst
Control Systems Engineer	Industrial Engineer	Transportation Engineer
Cost Engineer/Estimator	Landscape Architect	Water Resources Engineer

Enter requested information in the chart provided below:

- a. Select disciplines from the List of Disciplines. For employees that do not qualify for any of the disciplines, select "Other".
- b. Each person can be counted only twice; once for his/her primary function and once for his/her secondary function. Primary and secondary functions should be indicated by including a "P" or an "S" in column b after the Description Title is given.
- c-d. If the form is completed for a firm (including all branch offices), enter the number of employees by disciplines in column c. If the form is completed for a branch office, enter the number of employees by discipline in column d and for the firm in column c. (NOTE: The Offeror may insert or delete rows in the existing Employees by Discipline chart table on page six (6 as necessary to complete the requirements for Question 2).



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EXAMPLE:

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees Firm	d. No. of Employees Branch
Example: Architect	P	138	50-Yuma Branch 50-Tempe Branch 38 – Phoenix Branch
Example: Architect	S	20	5-Yuma Branch 5-Tempe Branch 5 – Phoenix Branch 5- Tucson Branch

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees Firm	d. No. of Employees Branch
Architect	P	1,028	9 - Phoenix 1 - Tucson
CAD Technician	P	652	7 - Phoenix 2 - Tempe (1) 5 - Tempe (2) 2 - Tucson
Civil Engineer	P	1,842	15 - Phoenix 4 - Tempe (1) 1 - Tempe (2) 2 - Scottsdale 7 - Tucson
Construction Inspector	P	173	2 - Phoenix
Electrical Engineer	P	678	1 - Phoenix 1 - Tempe (2) 1 - Tucson



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Environmental Engineer	P	469	4 - Phoenix 1 - Tempe (1) 4 - Tempe (3)
Environmental Scientist	P	848	2 - Phoenix 1 - Tempe (1) 6 - Tempe (3)
Geodetic Surveyor	P	396	3 - Tucson
Geologist	P	201	1 - Phoenix 3 - Tempe (2) 1 - Tempe (3)
Mining Engineer	P	120	22 - Tempe (2)
Project Manager	P	987	15 - Phoenix 15 - Tempe (2) 2 - Tempe (3) 4 - Tucson
Mechanical Engineer	P	589	4 - Tempe (2)
Structural Engineer	P	623	1 - Tempe (2)
Technical Analyst	P	2,011	19 - Phoenix 23 - Tempe (2) 3 - Tucson
Transportation Engineer	P	281	5 - Phoenix 2 - Tucson
Water Resources Engineer	P	59	1 - Phoenix 1 - Tucson



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Other	P	5,924	73 - Phoenix 7 - Tempe (1) 19 - Tempe (2) 2 - Scottsdale 9 - Tucson
Total		16,881	312

Office Locations

- Phoenix - 8211 S. 48th Street
- Tempe (1) - 1438 W. Fountainhead Parkway, Suite 202
- Tempe (2) - 1438 West Broadway Road, Suite 101
- Tempe (3) - 1553 W. Elna Rae Street, Suite 101
- Scottsdale - 6263 North Scottsdale Road, Suite 145
- Tucson - 5151 E Broadway Boulevard, Suite 400

3.0 FIRMS EXPERIENCE AND REVENUE

- a. [Firm shall complete the Excel spreadsheet titled “Amendment I Project Experience Number of Projects and Revenue”, using same document title and upload in Excel format as an “Attachment” with firm’s offer in ProcureAZ. \(NOTE: Amendment I version clarifies column instructions and additions of project experience categories\).](#)

4.0 FIRMS SERVICES

- a. [Firm shall complete the Excel spreadsheet titled “2017 Professional Services List of Firms Services” shall be completed and uploaded in Excel format only as an “Attachment” in ProcureAZ at time of offer submission.](#)

Amendment I ADSP017-00006796 Project Experience Number of Projects and Revenue
 ADSP017-00006796 2017 Annual Professional Services Qualifications List

FIRMS NAME (INSERT NAME): Stantec Consulting Services Inc.

TYPE OF PROJECT	TOTAL NUMBER OF FIRM PROJECTS (ALL FIRM LOCATIONS) COMPLETED IN LAST THREE YEARS	Using the Revenue Index (Enter 1-10) indicate the approximate revenue the firm has earned over the last three years from ARIZONA ONLY state, municipal, federal etc. government projects only	Using the Revenue Index (Enter 1-10) indicate the approximate revenue the firm has earned over the last three years from ARIZONA ONLY non-government projects only	TYPE OF PROJECT	TOTAL NUMBER OF FIRM PROJECTS (ALL FIRM LOCATIONS) COMPLETED IN LAST THREE YEARS	Using the Revenue Index (Enter 1-10) indicate the approximate revenue the firm has earned over the last three years from ARIZONA ONLY state, municipal, federal etc. government projects only	Using the Revenue Index (Enter 1-10) indicate the approximate revenue the firm has earned over the last three years from ARIZONA ONLY non-government projects only
Acoustics, Noise Abatement	467	0	0	Land Surveying	33554	0	1
Activity Centers	0	0	0	Landscape Architecture	1097	1	2
Aerial Photography; Airborne Data and Imagery Collection and Analysis	18	2	0	LEED Accredited A/E	0	0	0
Agricultural Development; Grain Storage; Farm Mechanization	116	0	1	LEED Independent 3rd Party Building Commissioning	0	0	0
Air Pollution Control	471	0	6	Libraries; Museums; Galleries	104	0	0
Airports; Navais; Airport Lighting; Aircraft Fueling	388	6	1	Lighting (Exteriors; Streets; Memorials; Athletic Fields, Etc.)	161	0	0
Airports; Terminals and Hangars; Freight Handling	711	6	6	Lighting (Interior; Display; Theater, Etc.)	47	0	0
Animal Facilities	31	0	2	Lighting (Cave; Cavern)	0	0	0
Anti-Terrorism/Force Protection	4	0	0	Mapping Location/Addressing Systems	18	0	0
Area Master Planning	0	0	0	Materials Handling Systems; Conveyors; Sorters	21	0	0
Auditoriums and Theaters	133	0	0	Materials Testing	0	0	0
Automation; Controls; Instrumentation	68	0	0	Measurement / Verification / Conservation Water Consumption	0	0	0
Barracks; Dormitories	85	3	1	Medical Related	0	0	0
Bridge Design: Bridges	1326	1	6	Metallurgy	22	0	0
Cartography	7	0	0	Mining and Mineralogy	607	0	10
Cemeteries (Planning and Relocation)	69	0	1	Modular Systems Design; Pre-Fabricated Structures or Components	15	0	0
Chemical Processing and Storage	149	0	1	Mold Investigation	0	0	0
Child Care/Development Facilities	37	0	3	Museums	0	0	0
Codes; Standards; Ordinances	181	6	3	Nuclear Facilities; Nuclear Shielding	14	0	0
Cold Storage; Refrigeration and Fast Freeze	22	0	0	Office Buildings; Industrial Parks	2390	5	4
Commercial Building (Low Rise); Shopping Centers	6457	1	7	Outdoor Recreation	0	0	0
Communications Systems; TV; Microwave	345	0	0	Petroleum and Fuel (Storage and Distribution)	2735	0	0
Community Facilities	713	0	2	Phase I Environmental	0	0	0
Computer Facilities	70	0	0	Photogrammetry	6	0	0
Conservation and Resource Management	240	0	0	Pipelines (Cross-Country - Liquid and Gas)	1586	0	0
Construction Management	680	1	2	Plumbing and Piping Design	39	0	0
Construction Materials Testing	0	0	0	Pneumatic Structures, Air-Support Buildings	1	0	0
Construction Surveying	538	0	2	Power Generation, Transmission, Distribution	3404	0	4
Controls and Electronics Engineer	0	0	0	Prisons and Correctional Facilities	173	0	0
Corrosion Control: Cathodic Protection Electrolysis	12	0	0	Product, Machine Equipment Design	23	0	0
Cost Estimating; Cost Engineering and Analysis; Parametric Costing; Forecasting	49	1	0	Public Safety Facilities	102	2	1
Cryogenic Facilities	1	0	0	Radar; Sonar; Radio and Radar Telescopes	3	0	0
Dams (Concrete; Arch)	91	0	3	Radio Frequency Systems and Shieldings	13	0	0
Dams (Earth; Rock); Dikes; Levees	270	1	4	Railroad; Rapid Transit	325	0	1
Desalination (Process and Facilities)	0	0	0	Recreation Facilities (Parks, Marinas, Etc.)	896	0	4
Design & Planning Structured Parking Facilities	0	0	0	Refrigeration Plants/Systems	17	0	0
Design-Build - Preparation of Requests for Proposals	427	0	4	Rehabilitation (Buildings; Structures; Facilities)	204	2	0
Detention Security Systems	0	0	0	Research Facilities	100	0	1
Digital Elevation and Terrain Model Development	3	0	0	Resources Recovery; Recycling	15	0	0
Digital Orthophotography	1	0	0	Rivers; Canals; Waterways; Flood Control	118	1	3
Dining Halls; Clubs; Restaurants	364	0	1	Roof Infrared Imaging to Identify Water Leaks	0	0	0
Disability / Special Needs	0	0	0	Roofing	117	0	1
Dredging Studies and Design	15	0	0	Safety Engineering; Accident Studies; OSHA Studies	465	0	0
Ecological and Archeological Investigations	1009	0	1	Security Systems; Intruder and Smoke Detection	72	0	0
Educational Facilities; Classrooms	2772	1	2	Seismic Designs and Studies	37	0	0
Electrical Studies and Design	859	0	0	Sewage Collection, Treatment and Disposal	1517	5	2
Electronics	12	0	1	Soils and Geologic Studies; Foundations	912	1	1
Elevators; Escalators; People-Movers	22	0	0	Solar Energy Utilization	155	0	3
Energy / Water Auditing Savings	0	0	0	Solid Wastes; Incineration; Landfill	445	5	2
Energy Conservation; New Energy Sources	277	0	3	Special Environments; Clean Rooms, Etc.	6	0	0
Environmental Impact Studies, Assessments or Statements	4475	1	3	Specifications Writing	0	0	0
Fallout Shelters; Blast-Resistant Design	1	0	0	Storm Water Handling and Facilities	869	6	1
Fire Protection	115	1	0	Structural Design; Special Structures	505	3	1
Fisheries; Fish Ladders	24	0	0	Surveying; Platting; Mapping; Flood Plain Studies	1449	1	4
Forensic Engineering	51	0	0	Sustainable Design	99	0	1
Garages; Vehicles Maintenance Facilities; Parking	259	0	1	Swimming Pools	39	0	0
Gas Systems (Propane; Natural, Etc.)	113	0	1	Testing and Inspection Services	4575	0	0
Geodetic Surveying: Ground and Airborne	87	0	1	Topographic Surveying and Mapping	204	1	1
Heating; Ventilating; Air Conditioning	395	1	1	Towers (Self-Supporting and Guyed Systems)	78	0	0
Highways; Streets; Airfield Paving; Parking Lots	1979	4	4	Toxicology	0	0	0
Historical Preservation	116	0	0	Traffic and Transportation Engineering	3809	6	7
Hospital and Medical Facilities	2951	4	7	Traffic Studies	0	0	0
Hotels; Motels	469	1	2	Transportation	0	0	0
Housing (Residential, Multi-Family; Apartments; Condominiums)	5394	2	6	Tunnels and Subways	47	0	0
Hydraulics and Pneumatics	18	0	0	Urban Renewals; Community Development	2248	0	3
Hydrographic Surveying	3	0	0	Utilities (Gas and Steam)	205	0	0
Industrial Buildings; Manufacturing Plants	2107	0	4	Value Analysis; Life-Cycle Costing	14	0	0
Industrial Processes; Quality Control	106	0	1	Warehouse and Depots	332	0	2
Industrial Waste Treatment	45	1	4	Waste Water Treatment Facility	0	0	0
Intelligent Transportation Systems	40	0	0	Water Resources; Hydrology; Ground Water	1493	5	5
Infrastructure	0	0	0	Water Supply; Treatment and Distribution	2691	6	5
Irrigation; Drainage	126	1	5	Water Well Rehabilitation; Water Well Work	0	0	0
Judicial and Courtroom Facilities	115	0	0	Wind Tunnels; Research/Testing Facilities Design	9	0	0
Laboratories; Medical Research Facilities	352	0	2	Zoning; Land Use Studies	117	0	0
Labs - General	0	0	0				
Labs - Research - Dry	0	0	0				
Labs - Research - Wet	0	0	0				

Professional Services Index Number	Revenue
1.	Less than \$100,000
2.	\$100,000 to less than \$250,000
3.	\$250,000 to less than \$500,000
4.	\$500,000 to less than \$1 Million
5.	\$1 Million to less than \$2 Million
6.	\$2 Million to less than \$5 Million
7.	\$5 Million to less than \$10 Million
8.	\$10 Million to less than \$25 Million
9.	\$25 Million to less than \$50 Million
10.	\$50 Million or greater



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EXPERIENCE REFERENCES:

THE PRIME FIRM SHALL LIST A TOTAL OF THREE (3) CLIENT REFERENCES FOR ANY PROJECTS COMPLETED IN THE LAST YEAR BY THE FIRM (OR A BRANCH LOCATION). REFERENCES MAY BE CONTACTED BY ANY ELIGIBLE AGENCY.

1	Client Company/Address	Contact	Begin Date	End Date
	7-Eleven Inc., PO Box 711, Dallas, TX 75221	Jose Rios	2003 (in AZ)	In Progress
	Phone Number	Email Address		
	(972) 828-6592	jose.rios@7-11.com		
	List project name, project location, original design fee, final design fee, construction costs (if applicable), and program facilities.			
	7-Eleven Arizona Environmental Profile; locations throughout Arizona; \$900,000 (2016 only)			
	Services performed similar to those described in Solicitation			
	Immediate response, environmental assessment, characterization, and remediation of Arizona 7-Eleven locations.			
2	Client Company/Address	Contact	Begin Date	End Date
	Maricopa County, 501 N. 44th St, Ste 200 Phoenix, AZ 85008	Tom Ewers	2001	Ongoing
	Phone Number	Email Address		
	(602) 506-7145	tomewers@mail.maricopa.gov		
	List project name, project location, original design fee, final design fee, construction costs (if applicable), and program facilities.			
	Maricopa County On-Call Plan Review and Inspection Services, 2001 - Ongoing, Fees vary, No construction or design fee			
	Services performed similar to those described in Solicitation			
	On-call building code consulting, inspections, management, and plan review services.			
3	Client Company/Address	Contact	Begin Date	End Date
	FCDMC, 2801 W. Durango, Phoenix, AZ 85009	Felicia Terry	2014	Ongoing
	Phone Number	Email Address		
	(602) 799-6842	fet@mail.maricopa.gov		
	List project name, project location, original design fee, final design fee, construction costs (if applicable), and program facilities.			
	Powerline, Vineyard Road, Rittenhouse Flood Retarding Structures On-call; Maricopa County, Arizona; \$5,500,000; Ongoing			
	Services performed similar to those described in Solicitation			
	Design services to rehabilitate and decommission portions of the existing flood retarding structures.			



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End of Attachment 2-A



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Attachment 2-B
Organization Profile

STATE MAY DETERMINE YOUR PROPOSAL IS NON-RESPONSIVE IF YOU DO NOT ANSWER ALL QUESTIONS FULLY.

ORGANIZATION PROFILE

Firm Name	Stantec Consulting Services Inc.	Year established	1954	
Principal address (street, city, state)	8211 South 48th Street, Phoenix, Arizona 85044			
Entity type:	Public	Structure:	Corporation	
Branch or Division:	Branch	Parent:	Stantec Inc.	
Years the organization has conducted business in Arizona.			25	
Contract Representatives to Contact				
	Name	Title	Telephone Number	E-Mail Address
1.	Scot Schlund	Senior Principal	(602) 707-4651	scot.schlund@stantec.com
2.	Maria Brady	Principal	(602) 707-4689	maria.brady@stantec.com
3.	Tony Cabrera	Principal	(602) 707-4677	tony.cabrera@stantec.com
Firm Professional Licenses/Certifications (INCLUDE COPY OF DOCUMENT IN OFFER)				
	Description	Issuer	Number	Expiration
1.	Arizona Board of Technical Registration	State of Arizona	16255-0	1/31/2018
2.	Arizona Corporate Commission	State of Arizona	F-15694628	N/A
3.				

End of Attachment 2-B



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Attachment 3-A
Method Proposal
(Method of Approach)

RESERVED FOR AWARDED DESIGN PROFESSIONAL UPON SERVICE REQUEST

End of Attachment 3-A



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Attachment 3-B
Key Personnel Proposal

Answer all questions thoroughly in the spaces provided. **Complete this form in full for each one of the key personnel who will participate in this contract.** Insert or attach a separate resume if desired, but any attached resumes are supplemental to this form and **do not substitute resumes for this form.** Offeror shall list any resume filename within the Key Personnel Form resume section and Attach as titled in ProcureAZ with offer. Resumes shall not be listed in Attachment 3-B as Supplements.

1	Name:	Scot Schlund, PE	How long with company?	19
	Current position in company:	Managing Senior Principal	How long in position?	11
	Position for the Services:	Contract Manager and Surface Water Design Lead	How much of time will be dedicated to the Services?	5%
	What primary functions will be assigned?	Scot will serve as contract manager and primary point of contact for this contract. As the Surface Water Design Lead, he will be responsible for overseeing all related task orders, assigning personnel to complete the work and ensuring that it meets all budget, schedule, and quality standards.		
	Describe person's experience in performing services like those that are to be assigned:	Scot has more than 30 years of experience specializing in FEMA CLOMR/LOMR/LOMA studies, floodplain delineations, stream restoration, and the analysis and design of stormwater management facilities. He guided the development of the current City of Phoenix and Maricopa County Storm Drainage Design Manual and completed the El Rio Flood Hazard Mitigation Concept project covering 32 miles of the largest river system in Arizona and includes floodplain delineation and proposed levee scenarios.		
	List person's job-related training and education:	<ul style="list-style-type: none"> • BS, Natural Resources Management and Planning University of Michigan, Ann Arbor, Michigan, 1978 • MS, Watershed Management/Surface Water Hydrology, University of Arizona, Tucson, Arizona, 1982 • Professional Engineer #22910, State of Arizona • Professional Engineer #9262, State of Nevada • 2006 WESTMARC Best of the West Awards Honor Award, El Rio Watercourse Master Plan & Area Drainage Master Plan • 2006 Valley Forward Environmental Excellence Awards Crescordia Award, El Rio Watercourse Master Plan & Area Drainage Master Plan • 2006 Arizona Planning Association's State Planning Awards Best Regional Plan, El Rio Watercourse Master Plan & Area Drainage 		
	Resume:	resumes.pdf (Page 1)		



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2	Name:	Patrick Hayes, RA, NCARB, LEED® AP	How long with company?	1
	Current position in company:	Principal, Buildings	How long in position?	1
	Position for the Services:	Buildings and Architectural Design Lead	How much of time will be dedicated to the Services?	20%
	What primary functions will be assigned?	Patrick will serve as the lead for all buildings and architectural task orders, he will be responsible for assigning personnel to complete the work and ensuring that it meets all budget, schedule, and quality standards.		
	Describe person's experience in performing services like those that are to be assigned:	Patrick has more than 30 years of professional experience in commercial architecture. His experience and understanding of current market conditions allows him to focus not only on design, but also on the economic success of a project. He works diligently to ensure the best design possible within the allotted budget. Patrick prides himself on the exceptional quality of service we provide our clients and believes our clients appreciate the extra steps taken to 'do things the right way'.		
	List person's job-related training and education:	<ul style="list-style-type: none"> • BA, Architecture, University of Oregon, Eugene, Oregon, 1983 • Registered Architect #23492, State of Arizona • LEED® Accredited Professional, U.S. Green Building Council • Member, National Institute of Industrial and Office Properties 		
	Resume:	resumes.pdf (Page 3)		



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3	Name:	Maria Brady, PE	How long with company?	31
	Current position in company:	Principal	How long in position?	1
	Position for the Services:	Water and Wastewater Treatment and Conveyance Design Lead	How much of time will be dedicated to the Services?	20%
	What primary functions will be assigned?	Leading our water and wastewater treatment and conveyance services, Maria will be responsible for reviewing all task orders and assigning personnel to complete the work, ensuring that it meets all budget, schedule, and quality standards.		
	Describe person's experience in performing services like those that are to be assigned:	Maria has more than 31 years of experience in water, wastewater, storm water, and environmental management projects. Her expertise provides a broad focus on the development, planning, design, construction, start-up, and post-construction follow-up for water, wastewater, storm water, irrigation distribution systems, reuse systems, and other civil projects.		
	List person's job-related training and education:	<ul style="list-style-type: none"> • MS, Agricultural Engineering, Colorado State University, Fort Collins, Colorado, 1984 • Professional Engineer #29313 - Civil, State of Arizona • Professional Engineer #22841 - Agricultural, State of Arizona • Member, Society of American Military Engineers, Phoenix Post • Member, Water Environment Federation • Member, AZ Water Association 		
	Resume:	resumes.pdf (Page 5)		



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4	Name:	Michael Gerlach, PE	How long with company?	22
	Current position in company:	Associate	How long in position:	4
	Position for the Services:	Dams and Levees Design Lead	How much of time will be dedicated to the Services?	10%
	What primary functions will be assigned?	Michael has a great deal of experience working on dams and levees throughout the state and will oversee associated task orders and assign personnel to complete the work, ensuring that it meets all budget, schedule, and quality standards.		
	Describe person's experience in performing services like those that are to be assigned:	Michael has more than 22 years of experience in the areas of hydrology, hydraulic and drainage studies and design engineering and dam safety studies and analyses. He has extensive experience working on dams and levees throughout the state and is the project manager for the Powerline, Vineyard Road, Rittenhouse FRS Final Design and was the project engineer for McMicken Dam, Golden Eagle Dam, Gillespie Dam, and Capay Dam.		
	List person's job-related training and education:	<ul style="list-style-type: none"> • BS, Civil Engineering, Arizona State University, Tempe, Arizona, 1994 • Professional Engineer #19011, State of New Mexico • Professional Engineer #35150, State of Arizona • Member, Chi Epsilon National Civil Engineering Honor Society • Member/Treasurer, Arizona Floodplain Management Association • Member, American Society of Civil Engineers 		
	Resume:	resumes.pdf (Page 7)		



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5	Name:	Tony Cabrera, PE	How long with company?	1
	Current position in company:	Principal	How long in position:	1
	Position for the Services:	Transportation Design Lead	How much of time will be dedicated to the Services?	70%
	What primary functions will be assigned?	Tony is our Transportation Design Lead and will be responsible for overseeing all roadway, traffic, and other transportation related task orders, assigning personnel to complete the work and ensuring that it meets all budget, schedule, and quality standards.		
	Describe person's experience in performing services like those that are to be assigned:	Tony has been designing transportation infrastructure throughout Arizona for more than thirty years, including urban streets, highways, bridges, pedestrian paths, and more. During that time, he has worked on virtually every aspect of roadway development, from design to construction administration, including horizontal and vertical geometry, utility and environmental coordination, traffic control and maintenance, erosion control, and right-of-way coordination.		
	List person's job-related training and education:	<ul style="list-style-type: none"> • BS, Civil Engineering, Phoenix Institute of Technology, Phoenix, Arizona, 1982 • Professional Engineer #40208, State of Arizona 		
	Resume:	resumes.pdf (Page 9)		



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6	Name:	Mark Koester, PE	How long with company?	26
	Current position in company:	Principal	How long in position:	26
	Position for the Services:	Airport Design Lead	How much of time will be dedicated to the Services?	20%
	What primary functions will be assigned?	Mark be responsible for overseeing all airport/aviation task orders, assigning personnel to complete the work and ensuring that it meets all budget, schedule, and quality standards.		
	Describe person's experience in performing services like those that are to be assigned:	Mark has nearly 40 years of consulting experience at airports throughout the US West. He has extensive experience planning, designing, and providing construction administration for airports, including terminals, runways, taxiways, aprons, stormwater hydrology and hydraulic systems, and utilities. He has performed work at over 30 airport facilities, including more than a dozen project completed at Sky Harbor Airport over the last two decades.		
	List person's job-related training and education:	<ul style="list-style-type: none"> • BS, Civil Engineering, Colorado State University • Professional Engineer #22520, State of Arizona • Executive Member, Airport Consultants Council • Corporate Member, Arizona Airports Association • Corporate Representative, American Association of Airport Executives • Member Representative, Society of American Military Engineers, Phoenix Post 		
	Resume:	resumes.pdf (Page 11)		



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7	Name:	Theresa Jones	How long with company?	11
	Current position in company:	Senior Project Manager	How long in position:	7
	Position for the Services:	Environmental Services Lead	How much of time will be dedicated to the Services?	20%
	What primary functions will be assigned?	As the Environmental Services Lead, Theresa will be responsible for overseeing all environmental task orders under this contract, assigning personnel to complete the work and ensuring that it meets all budget, schedule, and quality standards.		
	Describe person's experience in performing services like those that are to be assigned:	Theresa has 25 years experience in environmental consulting and management. She has managed and conducted corrective action programs in Arizona, California, New Jersey, New Mexico, New York, Pennsylvania, Rhode Island, Texas, Utah, the Salt River Pima-Maricopa Indian Community, and the Navajo Nation. She also has extensive experience performing Phase I, II, and III environmental assessments.		
	List person's job-related training and education:	<ul style="list-style-type: none"> • BS, Geology; Minor, Environmental Science, James Madison University, Harrisonburg, Virginia, 1992 		
	Resume:	resumes.pdf (Page 13)		



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8	Name:	Alex Kelser, PLS, RLS, CFedS, LS	How long with company?	<1
	Current position in company:	Associate	How long in position:	<1
	Position for the Services:	Survey and Geomatics Lead	How much of time will be dedicated to the Services?	20%
	What primary functions will be assigned?	Alex will oversee all survey and geomatic task orders, assigning personnel to complete the work and ensuring that it meets all budget, schedule, and quality standards.		
	Describe person's experience in performing services like those that are to be assigned:	With over 20 years of experience, Alex has an extensive background in all aspects of project management. He has solid skills in Geodesy, GNSS, and GPS reference station operation, robotics, satellite survey hardware and software, and UAV Surveying. He has successfully applied his expertise to specifications design and development, survey research, geodetic and terrestrial network analysis, preparation and review of final maps, reports, and legal descriptions, as well as right-of-ways.		
	List person's job-related training and education:	<ul style="list-style-type: none"> • Bachelor of Science in Geomatics and Land Surveying, Great Basin College, Elko, Nevada, 2015 • Registered Land Surveyor #51749, State of Arizona • Certified Federal Surveyors #1490, U.S. Department of Interior, BLM • Remote Pilot for Small Unmanned Aircraft System, Department of Transportation - FAA, • OPUS Project Manager Certification, National Geodetic Survey, Silver Springs, Maryland, 2014 		
	Resume:	resumes.pdf (Page 15)		



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Attachment 3-B
Key Personnel Proposal

Answer all questions thoroughly in the spaces provided. **Complete this form in full for each one of the key personnel who will participate in this contract.** Insert or attach a separate resume if desired, but any attached resumes are supplemental to this form and **do not substitute resumes for this form.** Offeror shall list any resume filename within the Key Personnel Form resume section and Attach as titled in ProcureAZ with offer. Resumes shall not be listed in Attachment 3-B as Supplements.

1	Name:	Kim Coyne	How long with company?	11
	Current position in company:	Senior Associate	How long in position?	<1
	Position for the Services:	Plan Review and Inspection Lead	How much of time will be dedicated to the Services?	70%
	What primary functions will be assigned?	Kim works with communities throughout the state to provide plan review and inspection services and will coordinate our local personnel to complete this work.		
	Describe person's experience in performing services like those that are to be assigned:	With over 15 years in the industry, Kim possesses many skills nurtured by cross-training and construction experience. She has performed inspections and plan reviews on various types of residential projects including custom and standard homes, additions, pools, and utility alterations. Her experience as a commercial plans examiner and inspector include tenant improvements and new construction for hospitals, office complexes, schools, storage, industrial, and assembly occupancies.		
	List person's job-related training and education:	<ul style="list-style-type: none"> • AA, University of Phoenix, Phoenix, Arizona, 2010 • ICC Building Plans Examiner • ICC Building Inspector • ICC Accessibility Inspector/Plans Examiner • ICC Residential Plans Examiner • ICC Residential Inspector • ICC Residential Plumbing Inspector • ICC Residential Mechanical Inspector #5006116 • Member, International Code Council and AZBO 		
	Resume:	resumes.pdf (Page 17)		



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2	Name:	Chuck Williams, PE	How long with company?	4
	Current position in company:	Senior Project Manager	How long in position?	3
	Position for the Services:	Civil Engineer, Drainage Design	How much of time will be dedicated to the Services?	20%
	What primary functions will be assigned?	Chuck will provide civil engineering design services for a variety of projects, focusing on water related issues, and drainage in particular.		
	Describe person's experience in performing services like those that are to be assigned:	Chuck brings more than 20 years of experience in civil engineering and resource management projects to a project team. He has worked in both the public and private sector as an engineer and manager, and his extensive public sector experience gives him a unique perspective and a valuable set of skills. Chuck uses his understanding of how to navigate through complex resource and stakeholder issues in order to get his clients public works projects done satisfactorily, on time, and within budget.		
	List person's job-related training and education:	<ul style="list-style-type: none"> • BS, Civil Engineering, University of Arizona, Tucson, Arizona, 1986 • Professional Engineer #24447, State of Arizona • Professional Engineer #39614, State of Colorado • Professional Engineer #6024487-2202, State of Utah • Member, American Society of Civil Engineers • Member, Arizona Association of County Engineers • Member, Arizona Floodplain Management Association 		
	Resume:	resumes.pdf (Page 19)		



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3	Name:	Tricia Cook, PE	How long with company?	16
	Current position in company:	Senior Associate	How long in position?	<1
	Position for the Services:	Civil Engineering and Utilities Coordination	How much of time will be dedicated to the Services?	20%
	What primary functions will be assigned?	Tricia will provide civil engineering design and utility coordination services for water, transportation, and other infrastructure projects.		
	Describe person's experience in performing services like those that are to be assigned:	Tricia has more than 31 years of experience in design and construction management. She has been involved in the conceptual design, planning, and design of municipal infrastructure systems including water, wastewater, roads, and stormwater. Tricia has performed extensive work on the Valley Metro light rail system, coordinating utilities for line segments across the Valley. Her knowledge of local agencies and ability work closely with them has made her an invaluable asset to our team.		
	List person's job-related training and education:	<ul style="list-style-type: none"> • MBA, University of British Columbia, Vancouver, British Columbia, 1991 • Professional Engineer #34417, State of Arizona • Professional Engineer #47519, State of Washington • Member, Association of Professional Engineers of Yukon • Member, Association of Professional Engineers and Geoscientists of British Columbia 		
	Resume:	resumes.pdf (Page 21)		



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4	Name:	Martin Armenta, PE, RCDD, LEED® AP	How long with company?	13
	Current position in company:	Senior Associate	How long in position:	1
	Position for the Services:	Electrical Engineer	How much of time will be dedicated to the Services?	15%
	What primary functions will be assigned?	Marty is an exceptional electrical engineer with a vast experience who will lead our electrical design efforts, as well as control system design.		
	Describe person's experience in performing services like those that are to be assigned:	Marty has more than 25 years of electrical engineering and project management experience. His expertise includes the design of medium voltage power distribution, low voltage power distribution, exterior area lighting, street lighting, interior lighting, grounding, traffic signals, lightning protection, fire alarm, telecommunications, access control, closed circuit television, integrated security, intercom, public address, distributed control systems, and PLC/HMI control systems.		
	List person's job-related training and education:	<ul style="list-style-type: none"> • BS, Electrical Engineering, University of Arizona, Tucson, Arizona, 1989 • Professional Engineer #29346, State of Arizona • Professional Engineer #E16438, State of California • Professional Engineer #15192, State of Nevada • LEED Accredited Professional, U.S. Green Building Council • Member, Building Industry Consulting Service International (BICSI) • #06050, Registered Communications Distribution Designer 		
	Resume:	resumes.pdf (Page 23)		



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5	Name:	Jill Hankins, PWS	How long with company?	6
	Current position in company:	Environmental Scientist	How long in position:	2
	Position for the Services:	Environmental Scientist	How much of time will be dedicated to the Services?	20%
	What primary functions will be assigned?	Jill will work with our environmental team, conducting biological assessments and evaluations for projects as needed.		
	Describe person's experience in performing services like those that are to be assigned:	Jill specializes in wetland delineations, wetland mitigation, and Section 404 permitting. She is proficient in streamlining the 404 process to meet project timelines by preparing mitigation plans that are acceptable to both the client and the USACE. Jill has authored numerous Biological Assessments/Biological Evaluations (BA/BE) and conducted species-specific surveys for several sensitive wildlife and plants in Arizona and throughout the Southwest.		
	List person's job-related training and education:	<ul style="list-style-type: none"> • BS, Environmental Science, Arizona State University, Tempe, Arizona 1995 • Professional Wetland Scientist, Wetland Science • US Army Corps of Engineers Certified Wetland Consultant • Society of Wetland Scientists, Professional Wetland Scientist • US Fish & Wildlife Service, Certified Utah Prairie Dog Biologist • US Fish & Wildlife Service, Certified Southwestern Willow Flycatcher Biologist • US Fish & Wildlife Service, Certified Mexican Spotted Owl Biologist 		
	Resume:	resumes.pdf (Page 25)		



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6	Name:	Marty Minter, PG, RG, CEM	How long with company?	5
	Current position in company:	Project Manager	How long in position:	2
	Position for the Services:	Environmental Services	How much of time will be dedicated to the Services?	20%
	What primary functions will be assigned?	Marty will help lead a wide variety of environmental projects, utilizing his extensive and broad experience to select to bring together team members and coordinate with stakeholder groups to resolve issues.		
	Describe person's experience in performing services like those that are to be assigned:	Marty has more than 25 years of environmental experience in Phase 1 and 2 assessments, site characterization, remediation, risk assessment, air quality testing/monitoring and a variety of other environmental services. He has managed a wide range of environmental projects, including numerous soil and groundwater characterization/remediation projects for hazardous waste sites throughout Arizona and worked closely with regulatory agencies at all levels.		
	List person's job-related training and education:	<ul style="list-style-type: none"> • BS, Geology, California Lutheran University, Thousand Oaks, California, 1990 • MS, Environmental Management, Arizona State University, Tempe, Arizona, 2003 • Registered Geologist #31663 (AZ) • Certified Remediation Specialist #35824 (AZ), Professional Geologist #8764 (CA), #664-13 (WI), Certified Environmental Manager #2293 (NV) • Certification in Geographic Information Systems (Penn State University) • 40-Hour HAZWOPER and recent 8-Hour Refresher Training • Supervisor Training HAZWOPER • MSHA training • DOT HM-181 Hazmat Course • RCRA Hazardous Waste Generator Training • Vice President, Environmental Professionals of Arizona 		
	Resume:	resumes.pdf (Page 27)		



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7	Name:	Mel Lawson	How long with company?	4
	Current position in company:	Senior Consultant	How long in position:	3
	Position for the Services:	Mining Services	How much of time will be dedicated to the Services?	5%
	What primary functions will be assigned?	Mel will oversee all mining related task orders.		
	Describe person's experience in performing services like those that are to be assigned:	Mel is a Mining Engineer with 45 years of experience in domestic and international mine management, with an emphasis on underground/surface mining operations and project and construction management. He has strong operational and technical abilities, with hands-on experience in supervision, safety, permitting, mine development, feasibility studies, contract preparation and execution, project and construction management, project start-up, policy development, and administration.		
	List person's job-related training and education:	<ul style="list-style-type: none"> • BS, Mining Engineering, Michigan Technological University, Houghton, Michigan, 1970 • Certified, Surface and Underground, Mine Safety and Health Administration; Registered Qualified Person #1859650, Society for Mining, Metallurgy, and Exploration 		
	Resume:	resumes.pdf (Page 29)		



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8	Name:	Doug Moseke, PE	How long with company?	21
	Current position in company:	Senior Associate	How long in position:	1
	Position for the Services:	Transportation Engineer	How much of time will be dedicated to the Services?	20%
	What primary functions will be assigned?	He has successfully worked with clients throughout Arizona from as far south as Yuma to as far north as Page. He also has experience working on projects in New Mexico, New York, Texas, and Colorado.		
	Describe person's experience in performing services like those that are to be assigned:	Doug possesses a breadth of ability and experience ranging from project management to project design and planning. His project experience comprises roadway safety assessments; corridor improvement projects ranging from urban arterials to pedestrian enhancements; shared use paths; low volume rural roadways; and roundabouts.		
	List person's job-related training and education:	<ul style="list-style-type: none"> • BS, Civil Engineering, University of Arizona, Tucson, Arizona, 1994 • Professional Engineer #34006, State of Arizona • Member, Women's Transportation Seminar • Member, American Society of Civil Engineers 		
	Resume:	resumes.pdf (Page 31)		



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Attachment 3-B
Key Personnel Proposal

Answer all questions thoroughly in the spaces provided. **Complete this form in full for each one of the key personnel who will participate in this contract.** Insert or attach a separate resume if desired, but any attached resumes are supplemental to this form and **do not substitute resumes for this form.** Offeror shall list any resume filename within the Key Personnel Form resume section and Attach as titled in ProcureAZ with offer. Resumes shall not be listed in Attachment 3-B as Supplements.

1	Name:	Vinay Vanapalli, PE, PTOE	How long with company?	10
	Current position in company:	Transportation Engineer	How long in position?	10
	Position for the Services:	Traffic Engineer	How much of time will be dedicated to the Services?	20%
	What primary functions will be assigned?	Vinay provides traffic engineering services for roadways, pedestrian paths, signal design, roadway safety assessments, and other transportation related projects.		
	Describe person's experience in performing services like those that are to be assigned:	Vinay has been working in the roadway and traffic engineering field for 15 years. His specific experience includes geometric roadway design, traffic operations analysis, traffic impact analysis, traffic signal design, and transportation planning. He is an experienced user of traffic analysis software, including SYNCHRO, SIMTRAFFIC, and HCS. He also has familiarity with INROADS, PARKCAD and AUTOTURN software.		
	List person's job-related training and education:	<ul style="list-style-type: none"> • MS, Transportation Engineering, University of Las Vegas, Las Vegas, Nevada • Professional Engineer, State of Arizona #50172 • Certified Professional Traffic Operations Engineer #3234, Institute of Transportation Engineers • Member, Institute of Transportation Engineers • Member, Transportation Research Board • Hazardous Bus Stop Identification: An Illustration Using GIS, Journal of Public Transportation, 2008 • Evaluating the Effectiveness of Continuous Shoulder Rumble Strips, ITE District Sixth Annual Meeting, 2006 		
	Resume:	resumes.pdf (Page 33)		

Scot has more than 30 years of experience specializing in FEMA CLOMR/LOMR/LOMA studies, numerous floodplain delineations, certification of levees and floodwalls, the design and repair of dams, and the analysis and design of stormwater management facilities. He understands the unique challenges of designing these facilities, especially in the arid southwest. Scot is a Managing Senior Principal that oversees the Water Practice in five Stantec offices in the western US and is based in the Phoenix, Arizona office.

Scot is currently the Principal in Charge of a \$70 million dam rehabilitation for the Flood Control District of Maricopa County, AZ, and is serving as Quality Assurance Lead. As Principal in Charge, he also guided the development of the current City of Phoenix and Maricopa County Storm Drainage Design Manual. Scot is leading the nearly complete Laveen Area Drainage Master Plan Update that is a flood mitigation feasibility analysis. He is also finishing the El Rio Flood Hazard Mitigation Concept project covering 32 miles of the largest river system in Arizona and includes floodplain delineation and proposed levee scenarios. Scot is well versed working with large, technical design teams and gaining consensus with agency stakeholders.

EDUCATION

MS, Watershed Management/Surface Water Hydrology, University of Arizona, Tucson, Arizona, 1982

BS, Natural Resources Management and Planning, University of Michigan, Ann Arbor, Michigan, 1978

REGISTRATIONS

Professional Engineer #9262, State of Nevada

Professional Engineer #22910, State of Arizona

PROJECT EXPERIENCE

Upper New River Area Drainage Master Plan, Maricopa County, Arizona (Principal)
Area Drainage Master Plan (ADMP) for 169 square miles of the Upper New River area, which is located in the Cities of Phoenix and Peoria and unincorporated Maricopa County, Arizona. Scope of work includes the identification of drainage problems, hydrology, hydraulics, geomorphic analysis, erosion setbacks, FEMA floodplain delineations, stakeholder and public coordination, survey, environmental resources, scenery resource assessment, recreation multi-use assessment, development of alternative solutions, and preparation of preliminary design plans based on a preferred alternative.

Maricopa Area Drainage Master Plan, Maricopa, Arizona (Principal)

The purpose of the Maricopa ADMP was to anticipate potential flooding problems that may occur due to impending development. A major objective of the study was to identify guidelines for development that will minimize flood damage within the study area as urbanization occurs. Goals of the Maricopa ADMP were qualitatively identify flood and erosion hazards within the project area through the identification of land forms, historical record research, and field investigations; inventory existing drainage facilities; delineate watersheds and identify potential split flow locations; develop policies and strategies to protect residents from flood and erosion hazards; preserve the flood control function of natural washes; minimize future expenditures of public funds for flood control and emergency management; and provide recommendations for additional technical evaluations.

* denotes projects completed with other firms

Scot S. Schlund PE

Managing Senior Principal, Water

El Rio Watercourse Master Plan and Area Drainage Master Plan, Maricopa County, Arizona (Principal-in-Charge)

Watercourse and Area Drainage Master Plans for 18 miles of the Gila River in Maricopa County. Provides sustainable flood management solutions that conserve the natural environment and accommodate future growth along 18 miles of the Gila River. The Gila River watershed is the largest in the State of Arizona contributing storm water runoff from approximately 45,000 square miles to the El Rio WCMP project area.

Roosevelt Irrigation District Main Canal - Sheely Farms Box Culvert, Maricopa County, Arizona (Principal)

Mr. Schlund provided oversight for the contracting and project resources to ensure the successful completion of the existing 3-barrel box culvert within the RID Main Canal approximately 300 linear feet.

North Peoria Area Drainage Master Plan, Maricopa County, Arizona (Principal)

Mr. Schlunds focus on this project was to ensure that the appropriate resources were made available for this master plan that considers approximately 73 square miles. The plan identified flooding and drainage patterns in the North Peoria area and adjacent Maricopa County, and recommends sustainable strategies that will protect the public from flooding hazards.

Middle New River Watercourse Master Plan, Glendale & Peoria, Arizona (Principal)

Mr. Schlund was responsible for the oversight of the preparation of an Emergency Spillway Inundation Study for emergency evacuation uses, as well as the development of a Watercourse Master Plan approximately 8.5 miles in length.

Critical Watershed Management Plan for Ruthrauff Road Areas, Pima County, Arizona (Hydrologist)

Preparation of a basin management plan for a three-square-mile area for the Pima County Department of Transportation. Project included evaluation of flooding in relatively flat watershed with documented flood problems. Proposed solutions to flooding included channelization, installation of new drainage crossing of roadways, and detailing storm sewer installation along Ruthrauff Road, La Cholla Boulevard, and Sullinger Avenue.

City of Phoenix and Maricopa County Drainage Design Manual, Maricopa County, Arizona (Principal)

Oversaw the comprehensive drainage design manual for Maricopa County and the City of Phoenix. Topics include flood hydrology; hydraulics including open channels, storage basins, street drainage, storm sewers, bridges and culverts, pump stations, floodplain, and sedimentation; and urban flood management planning. The project also involved drafting City policy and ordinances.

Canada Del Oro Wash, Pima County, Arizona (Hydrologist)

Responsible for hydrologic, hydraulic, and sediment transport analysis for a +250-square-mile drainage basin that included peak discharge and hydrograph determination using SCS TR-20, backwater analysis using HEC-2, and sediment transport analysis using FLUVIAL-11.

* denotes projects completed with other firms

Patrick has more than 30 years of professional experience in commercial architecture. His experience and understanding of current market conditions allows him to focus not only on design, but also on the economic success of a project. He works diligently to ensure the best design possible within the allotted budget. Patrick prides himself on the exceptional quality of service we provide our clients and believes our clients appreciate the extra steps taken to 'do things the right way'.

EDUCATION

Bachelor of Architecture, University of Oregon,
Eugene, Oregon, 1983

REGISTRATIONS

Registered Architect #23492, State of Arizona

Licensed Architect #404620, State of
Colorado

Registered Architect, National Council of
Architectural Registration Boards

LEED Accredited Professional, Green Building
Certification Institute

MEMBERSHIPS

Member, National Institute of Industrial and
Office Properties

PROJECT EXPERIENCE

City of Phoenix Vehicle Maintenance Facility*,
Phoenix, Arizona (Principal-in-Charge)

Maintenance facility for storage, welding, and painting of City of Phoenix vehicle fleet. Patrick was responsible for designing the project and oversaw the production of contract documents as well as assisted during construction administration ensuring the successful completion of the project.

GoDaddy Global Technology Center*,
Tempe, Arizona (Principal-in-Charge)

GoDaddy Global Technology Center was a two-story, 150,000 square-foot shell office project located in the ASU Research Park. It won an AZRE RED Award for Best Office Project of the Year and a NAIOP Arizona Award for Best Office Build-to-Suit of the Year in 2015. Patrick was involved in all initial client meetings. He designed the building and the site amenities (basketball court, volleyball courts, etc.).

Amkor Technology*, Tempe, Arizona
(Principal-in-Charge)

Completed in 2014, Amkor's Corporate Headquarters at ASU Research Park involved the design of an \$8 million, 102,000 square-foot, two-story, build-to-suit corporate office and included site, building shell, lobby cores and interior tenant improvements. Patrick was involved in the initial client meetings for conceptual and schematic design.

Veteran's Affairs Regional Office*, Phoenix,
Arizona (Principal-in-Charge)

This project was the award of a national design competition by the Department of Veteran's Affairs for their Regional Office in Phoenix. The extensive use of 3-D design and animation to fully demonstrate Patrick's design concept was a deciding factor in the VA's selection of the development team.

* denotes projects completed with other firms

Patrick C. Hayes NCARB, LEED AP

Principal

Mediserve*, Chandler, Arizona (Principal-in-Charge)

Mediserve was phase one of a multi-phased development of two 70,500 square-foot two-story office buildings. The twin buildings feature a unique tilted glass entry along with extensive use of landscape and hardscape to create a campus feel. Patrick was involved in the conceptual design of the project, as well as overseeing the design review.

Westar 101*, Scottsdale, Arizona (Principal-in-Charge)

Westar 101 was a two-story speculative office building, approximately 48,000 square feet with a central stair/elevator tower and pedestrian bridges connecting the second floors. Patrick was the lead designer on the project.

Ancona Professional Plaza*, Surprise, Arizona (Principal-in-Charge)

The Ancona Professional Plaza office complex incorporates a two-story, 75,000 square foot corporate office with a pair of single story, 11,000 square foot flexible office/retail buildings. Patrick was involved in site planning, conceptual design, and design review.

Sunrise Bank of Arizona*, Phoenix, Arizona (Principal-in-Charge)

Sunrise Bank of Arizona's tenant improvement was for a new 9,000 square-foot branch in Scottsdale. Patrick was involved in all initial client meetings and in the space planning.

SRP Credit Union*, Phoenix, Arizona (Principal-in-Charge)

This project consisted of a 60,000 square-foot tenant improvement for SRP Credit Union's corporate headquarters and included office/back office areas as well as a teller/bank space. Patrick was involved in all initial client meetings and the space planning.

SwitchX (later purchased by eBay)*, Phoenix, Arizona (Principal-in-Charge)

This project was a four-story, carrier hotel switching station totaling approximately 120,000 square feet. Patrick was responsible for the site planning, conceptual design, schematic design, and design review phases.

Vital Processing Systems*, Tempe, Arizona (Principal-in-Charge)

Vital Processing Systems was a 100,000-square-foot, two-story data facility for VISA. Patrick designed the building and provided coordination through the city design review process. He oversaw production of the contract documents and was involved in all project team meetings. He was involved in all processes of the construction administration.

* denotes projects completed with other firms

Maria has more than 24 years of experience in water, wastewater, storm water, and environmental management projects. Her expertise provides a broad focus on the development, planning, design, construction, start-up, and post-construction follow-up for water, wastewater, storm water, irrigation distribution systems, reuse systems, and other civil projects. She is involved in the design of water supply, transmission, storage, pumping, and distribution systems; wastewater collection, pumping, treatment, and reuse systems; large-diameter storm collection systems; land grading and site development; wastewater and storm water permitting, and pollution prevention; site, soil and environmental evaluations; and project design and construction estimates.

Maria has been involved in the planning phase of many projects both for individual projects and overall facilities. Her efforts have included technical analysis of water and wastewater systems and design report preparation, coordination of biological, archaeological and environmental assessment evaluations and report preparation, permit application preparation and coordination and soil/land suitability studies for agricultural, commercial, and industrial purposes.

EDUCATION

BS, Agricultural Engineering, Washington State University, Pullman, Washington, 1982

MS, Agricultural Engineering, Colorado State University, Fort Collins, Colorado, 1984

REGISTRATIONS

Professional Engineer #29313 - Civil, State of Arizona

Professional Engineer #22841 - Agricultural, State of Arizona

MEMBERSHIPS

Member, American Water Works Association

Member Representative, Society of American Military Engineers, Phoenix Post

Member, Water Environment Federation

Member, Alpha Zeta

Member, Alpha Epsilon

Member, Tau Beta Pi Engineering Honor Society

Member, AZ Water Association

PROJECT EXPERIENCE

Tempe Sewer Siphon Analysis, Tempe, Arizona (Principal)

Stantec has just initiated this project with the City of Tempe which will assess the condition of the siphons and include a hydraulic evaluation as part of the study to verify that the siphons provide the required capacity for the City.

Lift Station 41 Odor Control, Phoenix, Arizona (Principal)

Stantec completed a comprehensive odor control Technical Memo for the 13.0 MGD (currently receiving 3.1 MGD) Lift Station (LS) 41 located in southeast Ahwatukee. The odor sampling and testing included olfactometry testing for total odor (odor analysis by a panel), vapor phase testing for total reduced sulfur compounds, continuous hydrogen sulfide monitoring in the wet well, and liquid testing for BOD and dissolved sulfides. A ventilation model was developed to determine the required air flow from the wet well and upstream collection system.

* denotes projects completed with other firms

Maria J. Brady PE

Practice Leader

Luke Air Force Base Sewer System Upgrades, Luke Air Force Base, Arizona (Project Manager)

Design modifications for many sanitary sewer projects over the course of 10 years. Projects included replacement of a 1.2 MGD lift station, replacement of 2,000 linear feet of collection system upstream of the lift station, replacement of the force main and gravity sewer main from the lift station to the waste water treatment facility, and replacement of the military family housing sanitary sewer collection system and lift station.

Chandler Hillcrest Recovery Well Equipping Project, Chandler, Arizona (Principal)

Stantec has recently initiated this project with Chandler. Stantec will complete the design to develop the existing well site as a reclaimed water system facility capable of producing 2,000 gallons per minute (GPM). The total depth of the well is approximately 1,600 ft below ground surface with a static groundwater level of approximately 175 ft bgs.

Luke Air Force Base Safe Drinking Water Implementation Plan, Luke Air Force Base, Arizona (Project Manager)

The plan blended the strictest rules from the Air Force, EPA, and Arizona Department of Environmental Quality to provide a single source document that would cover the monitoring and standards set by the various entities to assure compliance for Luke with all monitoring agencies.

Nogales International Wastewater Treatment Plant, Nogales, Arizona (Project Engineer)

Design and construction services for a new 14.74 MGD upgrade of the Nogales International Wastewater Treatment Plant in Nogales, Arizona.

91st Avenue Wastewater Treatment Facility Process and Training Support, Phoenix, Arizona (Project Manager)

Providing training for operations and engineering staff that support 91st Ave WWTP on various topics, including BNR, 2-stage anaerobic digestion and wetlands. Providing on-call process analysis for specific questions or problems at the WWTP.

Luke Air Force Base Booster Pump Station and PRV Station Design, Luke Air Force Base, Arizona (Project Manager)

Participated and directed the design modifications to the low-pressure water system including the construction of a booster pump station and additional pressure reducing valves between the low-pressure and high-pressure systems at Luke.

Ranier Lift Station, Mesa, Arizona (Principal)

Stantec provided design and preparation of contract document for upgrades to the Lift Station, along with coordination with the City's JOC. We also acquired the Maricopa County Environmental Services Department Approval to Construct and provided limited construction services.

Ivyglen Odor Control Facility, Mesa, Arizona (Principal)

Stantec designed the replacement of all major components including the two, 8000-gallon chemical storage tanks, chemical piping and valves, a radar level sensing system, and the electrical control system. Stantec also provided limited construction services.

* denotes projects completed with other firms

Mr. Gerlach conducts studies in surface water hydrology including rainfall and runoff modeling, open channel hydraulics, and sediment analysis. He has more than 14 years of experience in the areas of hydrology, hydraulic and drainage studies and design engineering and dam safety studies and analyses. He has served as project engineer for numerous large floodplain delineation studies and area drainage master plans and is experienced with HEC-1/HMS hydrologic modeling as well as the application of engineering software integrated with GIS software for the development of hydrologic and hydraulic models. Mr. Gerlach is very experienced in the creation of GIS relational databases for drainage masterplanning which are used by Stantec for data analysis and alternatives formulation.

EDUCATION

BS, Civil Engineering, Arizona State University, Tempe, Arizona, 1994

REGISTRATIONS

Professional Engineer #19011, State of New Mexico

Professional Engineer #35150, State of Arizona

MEMBERSHIPS

Member, Chi Epsilon National Civil Engineering Honor Society

Member/Treasurer, Arizona Floodplain Management Association

Member, American Society of Civil Engineers

PROJECT EXPERIENCE

Fredonia Flood Retarding Structure (FRS) Rehabilitation Project, Fredonia, Arizona (Technical Review Hydrology and Hydraulics).

Mike conducted independent technical review of the project watershed hydrology and hydraulics for the earth flood control dam and earth levee alternatives. Mike reviewed the FLO-2D two-dimensional hydrodynamic models for routing inflow design floods into the dam and along the levee.

Powerline, Vineyard Road, and Rittenhouse Flood Retarding Structures On-Call Design Project, Maricopa County, Arizona (Project Manager)

Mike is overseeing the design team for the technical design for the rehabilitation of the Vineyard Road and Rittenhouse FRS to correct dam safety deficiencies relating to high hazard dams, inability of safely pass the inflow design flood, embankment cracking, and foundation and filter deficiencies. A failure modes and effects analysis workshop was conducted to identify potential failure modes and develop design risk reduction measure to eliminate or mitigate for those failure modes. The project is being conducted in three construction packages to prep earthwork for the dam improvements, raise the dam for the new inflow design floods, and construct two new structural concrete auxiliary spillways and a new principal spillway. The project is being constructed under a CMAR delivery method.

R. Michael C. Gerlach PE

Engineer, Environmental Management

McMicken Dam Alternative Analysis, Maricopa County, Arizona (Project Engineer)
Alternative analysis study of McMicken Dam to address spillway adequacy concerns. The first phase of the study was the development of a dynamic flow routing model to simulate the operation of the reservoir for the 100-, 200-, 500-year and Probable Maximum Flood events. FLO-2D was used to model the complex hydraulic routing characteristics of the reservoir and outlet works. The results of first phase were used in an alternative formulation process. Through that process a single dam decommissioning and dam rehabilitation alternative were selected and evaluated. Responsibilities included development and execution of the FLO-2D model of the reservoir, hydraulic modeling of the proposed alternatives, and preparation of the concept level plans and opinion of probable cost.

Fool Hollow Dam Watershed Hydrology and Hydraulic Study, Navajo County, Arizona (Project Manager)
Flood hydrology (PMF general storm, PMF thunderstorm, and 100-year) for the 110 square mile watershed, including routing through three upstream reservoirs and routing through the Fool Hollow Reservoir and spillway. Purpose of the project is to assess spillway adequacy.

McMicken Dam Fissure Risk Zone Remediation, Maricopa County, Arizona (Project Engineer)
McMicken Dam is a 10-mile long earthen embankment dam located in Maricopa County near the City of Surprise. The extreme southern portion of the dam is at risk of failure due to earth fissures. Approximately one mile of the dam was decommissioned to mitigate the risk of failure. The decommissioning included a new end of dam segment and a detention basin. The basin was designed to fit the form and function of the natural landscape and provide storage for runoff from the 500-year storm. Mr. Gerlach supervised the development of hydrologic and hydraulic modeling of alternative solutions as well as the design of the selected alternative that consisted of a detention basin, inlet energy dissipation structures, collector channels, diversion channels, and outlet works.

Tony has been designing transportation infrastructure throughout Arizona for more than thirty years, including urban streets, highways, bridges, pedestrian paths, and more. During that time, he has worked on virtually every aspect of roadway development, from design to construction administration, including horizontal and vertical geometry, utility and environmental coordination, traffic control and maintenance, erosion control, and right-of-way coordination. Early in his career, Tony worked with ADOT's Roadway Engineering Group, where he learned how to lead complex projects with multiple stakeholders and demanding requirements. He knows there's no such thing as "business as usual" in this world. Leadership and project execution have to adapt to each client and each project. It's this focus on excellence in every project he works on that is at the heart of how Tony approaches his work.

EDUCATION

BS, Civil Engineering, Phoenix Institute of Technology, Phoenix, Arizona, 1982

REGISTRATIONS

Professional Engineer #40208, State of Arizona

PROJECT EXPERIENCE

SR202L (SR101L to Broadway Road)*, Maricopa County, Arizona (General Engineering Consultant Manager)

As the General Engineering Consultant (GEC) Manager, Tony oversees and assists with construction management for widening 6.5 miles of general purpose lanes and 13 miles of HOV lanes. Serving as an extension of ADOT staff on this alternative delivery (design/build) project, Tony manages technical personnel and multiple subconsultants to develop a consistent, integrated team.

202L - Red Mountain Freeway Final Design, Gilbert to Higley Roads*, Mesa, Arizona (Project Designer)

Designed drainage, earthwork, and roadway, including six bridge structures for this \$70 million project within a shortened 13-months schedule.

67th Avenue Intersection Improvements*, Glendale, Arizona (Project Manager)

Tony led improvements for this project under the City's "Go Glendale" process, providing design for four intersections along 67th Avenue; Olive Avenue, Cactus Road, Thunderbird Road, and Bell Road. This work included roadway widening to accommodate PCCP bus bays and right turn lanes; landscape design; drainage improvements; new curb, gutter, and sidewalk with ramps; driveway entrances; bus shelters; pavement overlay; traffic signal and roadway lighting improvements; major utility relocation; and signing and striping of the roadway.

Pecos Road, Lindsay to Recker Roads*, Gilbert, Arizona (QA/QC Reviewer)

Ton provided quality review services for the reconstruction of Pecos road, converting it to a seven-lane major arterial section. The project included utility coordination and relocation, installation of water and sewer lines, and relocation of RWCD facilities.

* denotes projects completed with other firms

Tony Cabrera PE

Principal

Downtown Streets Improvement Project*, Casa Grande, Arizona (Project Engineer/Deputy Project Manager)
Tony provided design for 4.4 miles of street improvements through the heart of Casa Grande. This project included roadway design, widening, drainage improvements, utilities relocation, traffic signal modifications, intersection reconfiguration, and development of roundabouts and landscaping.

Grande Valley Land Development*, Pinal County, Arizona (Roadway Project Manager)
Coordinating closely with Pinal County and the cities of Maricopa and Casa Grande, Tony led a team that designed a traffic interchange for the grade separation of Val Vista Road and the Maricopa-Casa Grande Highway.

Power Road, Pecos Road to Santan Freeway Design Concept Report*, Maricopa County, Arizona (Project Manager)
Tony led the development of a DCR that created 30% design plans for two miles of ultimate roadway configuration, requiring new intersection alignments at Williams Field Road, storm drain improvements, a new bridge, utility coordination, right-of-way, and signing and pavement marking.

104th Street and Cholla Street*, Scottsdale, Arizona (Project Manager)
Tony was project manager for this traffic calming project, which introduced a landscaped roundabout at the center of the intersection. Chicanes were also added as traffic calming devices, positioned to reduce speeds as drivers approach the roundabout.

Reems Road, Cactus Road to Waddell Road*, Surprise, Arizona (Project Manager)
Tony oversaw design to widen Reems Road in Surprise, Arizona from three lanes to five. Preserving the east edge of the road, two lanes were added to the west side, along with new curb, gutter, and sidewalk. Multi-barrel box culvert extensions were placed at Cactus and Waddell Roads as part of the drainage improvements.

Avenida Rio Salado, 27th Ave to 17th Ave*, Phoenix, Arizona (Project Manager)
In order to improve travel conditions along this south Phoenix roadway, Tony led a team to design improvements, widening the road from three lanes to six. He oversaw roadway design, field survey, drainage, right-of-way, specifications, and cost estimates for curb, gutter, sidewalk, and storm drain improvements, among other improvements.

ADOT On-call Assignments*, Arizona
Tony has worked with ADOT on numerous on-call projects throughout the state, both as a consultant and while working for ADOT's Roadway Design Group. Serving as project manager on many of these assignments, he knows how to keep projects on schedule while working within limited budgets. He understands the on-call process and how to partner with state and federal agencies to overcome challenges and develop design solutions.

* denotes projects completed with other firms

Mark T. Koester PE

Managing Principal, Transportation (Aviation)



Mark, Stantec's Managing Principal for Aviation, has over 30 years of experience and is responsible for all aviation projects undertaken in the US West. His experience includes design of runways, taxiways, and aprons; rural highways and urban arterial streets; storm water hydrology and hydraulic systems; and utilities. He is also responsible for project management, design elements, and the constructability for airport designs and construction projects.

Mark has extensive experience working with clients and contractors to successfully complete projects in Air Operations Areas (AOAs), and has a full knowledge of FAA regulations, programs, policies and requirements. He has worked at over 30 airport facilities in the United States, Canada, and the eastern Caribbean.

EDUCATION

FAA/Crouse-Hinds Guidance Signs Seminar, FAA, Phoenix, Arizona, 1993

FAA/Asphalt Institute Paving Seminar, FAA, Newport Beach, California, 1991

Airport Planning and Design Workshop, University of California, Berkeley, California, 1994

BS, Civil Engineering, Colorado State University, Fort Collins, Colorado, 1978

REGISTRATIONS

Professional Engineer #22520, State of Arizona

Professional Engineer #22363, State of Colorado

Professional Engineer #45886, State of California

MEMBERSHIPS

Member Representative, Society of American Military Engineers, Phoenix Post

Corporate Representative, American Association of Airport Executives

Executive Member, Airport Consultants Council

Corporate Member, Arizona Airports Association

PROJECT EXPERIENCE

Laughlin/Bullhead International Airport Terminal Renovation, Bullhead City, Arizona (Principal)

Rehabilitation and expansion program included the modification of the existing terminal building to upgrade the facility. The programmed changes consisted of conversion to in-line baggage screening, ticket/arrivals lobby remodel, TSA security checkpoint relocation and 5,100-foot expansion, and rental car counter relocation using federal funds.

Williams Gateway Airport - Taxiway B Extension (Taxiway V to H), Mesa, Arizona (Principal-in-Charge)

Mr. Koester served as Principal-in-Charge for this project in which Stantec provided design and construction inspection services to the Williams Gateway Airport Authority for the construction of a 75-foot by 1,500-foot Portland cement concrete (PCC) taxiway extension of Taxiway B from Taxiway V northwest to Taxiway G. The project also included construction of the storm drainage outfall system. The taxiway was designed to accommodate Boeing 777 aircraft and included paving, grading, drainage, pavement markings, and medium intensity taxiway lights (MITL).

* denotes projects completed with other firms

Mark T. Koester PE

Managing Principal, Transportation (Aviation)

H.A. Clark Memorial Field - Airport Rescue and Fire Fighting Vehicle and Building, Williams, Arizona (Principal)

Reviewed the vehicle selection and building requirements. This resulted in a set of specifications for a small rapid response vehicle, which could respond to an aircraft accident on the airport within three minutes, and can provide both fire fighting and passenger rescue capability.

Sedona Airport Various Projects, Sedona, Arizona (Principal)

Projects have included the design and construction of hangar taxilanes and parking apron reconstruction, design of a relocated Taxiway A to a revised runway offset, asphalt paving, concrete rehabilitation, drainage, grading, lighting, and marking. Additional projects have included construction of six-position parking apron, heliport, construction of two connecting taxiways (40' x 120'), installation of perimeter game fence and gates (15,000 LF), and installation of an Automatic Weather Observation System (AWOS) Level III.

Grand Canyon National Park - Airport Lighting and Signage Upgrade, Tusayan, Arizona (Project Manager)

Provided design and construction phase services for the complete replacement of the Medium Intensity Runway Lighting (MIRL) system, reconstruction of the electrical vault for the airfield, installation of approximately 24 new taxiway guidance signs, and replacement of the diesel powered generator system. The airport is the second busiest airport in Arizona during the summer months.

Benson Municipal Airport, Benson, Arizona (Principal)

Design and construction administration services for the construction of the first "new" airport in Arizona since 1959. The airport consists of a paved and lighted 4,000-foot by 75-foot runway with runway end identifier lights and precision approach path indicators. The airport also has a parking apron with 21 tie-down spaces and is completely fenced. The Arizona Department of Transportation – Aeronautics Division recognized the Benson Municipal Airport as the "2000 Arizona Airport of the Year".

Chandler Municipal Airport Heliport, Chandler, Arizona (Project Manager)

Provided preliminary analysis and design for the new heliport facility. This included facilities for Stage 1-3 development. Site elements included Portland Cement Concrete Pavement (PCCP) helipad, asphaltic concrete parking, apron and access road navigational aids, lighting, and fencing.

Phoenix Sky Harbor International Airport - Pavement Management Program, Phoenix, Arizona (Principal)

This project consisted of a pavement inventory (records review) for over 8,000,000 sq. ft. of asphaltic concrete pavements, including air traffic analysis. The completed Pavement Management Plan (PMP) satisfied the requirements of the FAA, and provided a baseline of information for future pavement maintenance and reconstruction programs, including construction cost estimates and remaining life analysis. The results also provided a strong foundation for scheduling conversion or reconstruction of all airside pavements to Portland Cement Concrete (PCC) over the next decade.

* denotes projects completed with other firms

Theresa has 25 years experience in environmental consulting and management. For seven years she owned and served as principal and senior project manager for an Arizona-based environmental consulting firm. She has managed and conducted corrective action programs in Arizona, California, New Jersey, New Mexico, New York, Pennsylvania, Rhode Island, Texas, Utah, the Salt River Pima-Maricopa Indian Community, and the Navajo Nation.

Theresa's client base has ranged from major oil companies to local school districts. Her combined background in the geological and environmental science fields has been instrumental in executing an interdisciplinary approach to defining and resolving a wide range of environmental concerns. Based on education and experience, her ability to make critical decisions based upon observations and analytical data has proven invaluable in reducing project costs without compromising the integrity of the projects that she has managed. These abilities have made Theresa instrumental not only in managing and conducting corrective action programs, but also in obtaining site closure and maintaining a high level of client satisfaction.

EDUCATION

BS, Geology; Minor, Environmental Science,
James Madison University, Harrisonburg,
Virginia, 1992

PROJECT EXPERIENCE

Salt River Pima-Maricopa Indian Community
Fueling Facility, Scottsdale, Arizona (Project
Manager)

Responsible for planning, managing, and implementing UST system removal, subsequent site characterization assessments, and remedial actions. Product releases were identified during UST system removal, and early attempts to characterize the LUST site utilizing hollow-stem auger drilling encountered thick continuous caliche deposits. The approach included combining characterization and remediation of the site into one collective process, which with a very, prescribed approach and thorough documentation of all field activities met federal regulatory requirements. The approach was successful and site closure was achieved at significant cost savings.

Salt River Pima-Maricopa Indian Community
UST Removal*, Arizona (Senior Project
Manager)

Managed and supervised aboveground and underground storage tank (UST) activities for numerous major oil companies, various municipalities in Phoenix, Mesa, Tempe, and Scottsdale, Salt River Pima-Maricopa Indian Community, Navajo Nation, mining, single facility owners, local and nationwide commercial operations, unified school districts, and the Arizona Department of Transportation. Activities involved UST system upgrades, replacements, in-place closures and closures by removal, hydraulic lift removals, large multi-tank farm removals, archeological monitoring during excavation to preserve potential artifacts. Where technically feasible, over-excavation activities were implemented to remove limited amounts of impacted soil to assess the extent of the release prior to backfilling the UST basin.

* denotes projects completed with other firms

Theresa Jones

Senior Project Manager

Arizona Underground Storage Tank Portfolio Management, Various, Arizona (Senior Project Manager)

Responsible for management of statewide portfolios including retail gasoline-dispensing facilities. Projects include UST system upgrades, replacements, and closures; immediate response; release reporting; site characterizations; feasibility testing; remediation system installation, construction management, remedial system operation-and-maintenance (O&M); risk analysis; and hazardous and non-hazardous waste disposal. For each portfolio, responsible for client maintenance, budget development and management, regulatory reporting, corrective action plan preparation, selection of remedial technologies, implementation of site remediation, development of O&M manuals, and evaluation of remediation system performance. Remedial technologies used include air sparging, oxygen injection, soil vapor extraction, dual phase extraction, monitored natural attenuation, and remedial over-excavation. Vapor abatement technologies include carbon adsorption, thermal oxidation, and catalytic oxidation.

Aquifer Protection Permitting for Drywells at Petroleum Bulk Storage Terminal, Phoenix, Arizona (Senior Project Manager)

Prepared and secured Aquifer Protection Permits (APP) for existing drywells at active petroleum bulk storage terminal. Planned and implemented a subsurface assessment in the vicinity of each dry well to determine whether historical activities associated with the drywells had resulted in impact. Directed the cleanout of the dry wells, and identification of necessary repairs and/or alterations required to improve the water-tightness of the dry wells when not needed for storm water runoff control. Included preparation of best management practices plan for use and maintenance of the dry wells. The APP application was approved by the Arizona Department of Environmental Quality APP Section with no requested revisions. Responsible for client management, budget development and tracking, regulatory compliance, regulatory agency interface, coordination and management of the multi-phase subsurface assessment, report preparation, and preparation and submittal of the APP application.

* denotes projects completed with other firms

Alex brings passion, enthusiasm, and a keen understanding of how technology enhances surveying services and provides better results to our clients. With over 20 years of experience he has an extensive background in all aspects of project management including project leadership of various types of teams. His Certified Federal Surveyors registration with the Department of Interior's Bureau of Land Management makes him a huge asset in the Southwest. This expertise creates depth for Stantec by allowing us to help clients with projects on federal lands, especially Indian trust lands, which are frequently involved when it comes to working with tribal communities. Alex has solid skills in Geodesy, GNSS, and GPS reference station operation, robotics, satellite survey hardware and software, and UAV Surveying. He has successfully applied his expertise to specifications design and development, survey research, geodetic and terrestrial network analysis, preparation and review of final maps, reports, and legal descriptions, as well as right-of-ways.

EDUCATION

Bachelor of Science in Geomatics and Land Surveying, Great Basin College, Elko, Nevada, 2015

CERTIFICATIONS & TRAINING

Remote Pilot for Small Unmanned Aircraft System, Department of Transportation - Federal Aviation Administration, Washington, District of Columbia, 2016

OPUS Project Manager Certification, National Geodetic Survey, Silver Springs, Maryland, 2014

REGISTRATIONS

Certified Federal Surveyors #1490, U.S. Department of Interior Bureau of Land Management

Registered Land Surveyor #51749, State of Arizona

MEMBERSHIPS

Member, Arizona Professional Land Surveyors

Member, National Society of Professional Surveyors

Member, Geographic and Land Information Society

Member, American Association for Geodetic Surveying

PROJECT EXPERIENCE

Right-of-Way Survey Project*, Berkeley, California (Surveyor-in-Charge)

Project was to locate Panoramic Hill road right-of-way incident to a sanitary sewer upgrade project. Panoramic Hill Road twists, turns, and switches back on itself as it winds its way to the top of Panoramic Hill with exceptional view corridors on land along the route. With the existing survey data records largely inadequate to establish right-of-way of the roadway, the project included rigorous legal research into road location, exhaustive searches for existing monumentation, coordinated GNSS and terrestrial surveying techniques, reduction of field data, resolution of the road right-of-way, and mapping the road for the sewer project. Tasks included managing field and office operations of the project, ensured project timelines and constraints were achieved, meeting with stake holders and consultants, prepared exhibits, and preparing the final mapping for this project.

* denotes projects completed with other firms

Alex Kelser PLS, RLS, CFedS, LS

Associate, Geomatics - Certified Federal Surveyor

I-71 Reconstruction Survey*, Ohio (Project Surveyor)

Reconstruction of I-71 from one mile south of SR 18 to one mile north of the I-76 interchange. The project included adding a third lane in each direction and included the construction of noise walls. Project tasks included field data collection, reduction and processing, GNSS control preparation, and monumentation location and preservation, as well as office map preparation and review.

Railway Survey and Mapping Project*, City and County of San Francisco, California (Project Surveyor)

Survey and mapping of a 2.27 mile-long section of track and tunnel that comprises the underground route of the San Francisco Municipal Railway system (MUNI) as it transits the Twin Peaks hills in San Francisco. The purpose of the project was to establish the existing conditions of track, bedding, tunnel, and tunnel fixtures by making direct survey observations combined with remote GNSS observations. The final phase was to prepare a map of these conditions for use by MUNI as a design document.

Jesusita Lane Water Main Location Survey*, Santa Barbara, California (City Surveyor)

Location of an improperly built existing 48-inch water conveyance pipeline located largely on private property. Project involved a mile-long section of a main water that delivered potable water to the City of Santa Barbara from the City Dam and Reservoir. Tasks included meeting with stakeholders, including the owners of the property, in-depth record research and preliminary mapping, oversight of field data collection, reduction and processing, GNSS control preparation, location of road rights-of-way, and property ownership along the route. Additional tasks included AutoCAD Civil3D map production, including alignments and surfaces to locate the actual pipe as opposed to the record location of the pipe, working with stake holders to prepare new descriptions, and exhibits to ensure the location of the pipeline was property recorded.

Water Desalinization Plant Recommissioning Survey*, Santa Barbara, California (City Surveyor)

Project goal was the overhaul and rebuilding of desalinization facility to bring the facility back online from an idled state and ensure adequate intake and output network capacity. Tasks included the as-built location of many existing fresh water conveyance lines throughout the City, as well as preparation of easements and exhibits for these. Project also included preparing field surveys, AutoCAD surface files, and descriptions and exhibits for the location of many new fresh water conveyance lines. Oversaw a complex as-built survey of the additional controls, utilities, and structures associated with the desalinization facility.

* denotes projects completed with other firms

Kim has been employed as a project manager, commercial and residential plans examiner and inspector, construction plans coordinator, and permit technician as well as working in the private sector as a business owner, construction manager, company trainer, inspector, plans examiner, and construction coordinator. With over 15 years in the industry, she possesses many skills nurtured by cross-training and construction experience. She has performed inspections and plan reviews on various types of residential projects including custom and standard homes, additions, pools, and utility alterations. Her experience as a commercial plans examiner and inspector include tenant improvements and new construction for hospitals, office complexes, schools, storage, industrial, and assembly occupancies. As a coordinator, her focus on customer satisfaction and issue resolution results in positive working relationships and better product submittals by owners and designers.

Kim has earned five ICC certifications and completes the required level of continuing education to maintain these professional certifications. Her extensive experience in the private and public sector has made customer service a priority as well as developing her skills to accurately perform each job function. Daily enforcement of the codes, jurisdictional amendments, federal rules, and registrant designs has provided a depth of knowledge and strong command of the regulations necessary for safe, effective construction.

EDUCATION

AA, University of Phoenix, Phoenix, Arizona, 2010

REGISTRATIONS

Plan Examiner #8210941; Residential Plans Examiner, Accessibility Inspector/Plans Examiner, International Code Council

Certified Building Inspector #5006116; Residential, Building, & Building Plans Examiner, International Code Council

PROJECT EXPERIENCE

Ak-Chin Multi-Purpose Justice Center, Pinal County, Arizona (Construction Inspector)
Performed building, accessibility, life safety, mechanical, plumbing, electrical, and site inspections for a new jail, court facility, firing range, and site improvements. Collaborated with designers to resolve compliance issues while maintaining desired architectural design.

Phoenix Premium Outlets, Gila River Indian Community, Arizona (Plan Reviewer)
Performed building, accessibility, life safety, mechanical, plumbing, and electrical plan reviews for new, multi-million dollar retail shopping mall. Assisted developer in meeting project schedule deadlines. Acted as liaison between developer and Gila River Building department which was integral to meeting opening day deadline. Performed electronic plan reviews resulting in quick review turnaround times and approvals issued within two weeks. Established and attended meetings with clients to resolve issues quickly and effectively.

* denotes projects completed with other firms

Kimberly Coyne

Project Manager, Plan Review & Inspections

Campus Crest Communities, Flagstaff, Arizona
(Plan Reviewer)

Performed building, accessibility, life safety, mechanical, and plumbing plan reviews for new, private housing for college students. Assisted architect and engineer in site design and resolution of federal accessibility compliance issues.

K. Hovanian Homes, Queen Creek, Arizona
(Plan Reviewer)

Performed building, life safety, mechanical, plumbing, electrical, and structural plan reviews for multiple standard plans in a new residential development. Consulted with builder and engineer to achieve code and design compliance.

Benjamin Franklin School, Gilbert, Arizona
(Plan Reviewer)

Performed building, accessibility, life safety, mechanical, and plumbing plan reviews for new charter school. Assisted design registrants with jurisdictional processes necessary to obtain approval and compliance with all codes and regulations. Initiated several meetings to ensure project compliance and resolve issues efficiently to meet project schedules. Assisted with multiple deferred submittals after construction plan approval avoiding unnecessary construction delays.

Banner Del E. Webb Medical Center, Sun City West, Arizona (Plan Reviewer)

Performed building, accessibility, life safety, mechanical, and plumbing plan reviews for numerous tenant improvement and addition permits. Worked with architects, engineers, designers, and jurisdiction staff to assure code compliance and project schedules were met.

Maricopa County Sheriff's Office
Headquarters, Phoenix, Arizona (Plan Reviewer)

Performed building, accessibility, minor structural, mechanical, and plumbing plan reviews for new multi-story office building with basement garage. Assisted architect and engineers in achieving compliance with all code, design, and amended jurisdictional requirements. Established and attended multiple meetings to resolve issues and reduce required plan reviews.

Mercy Gilbert and Banner Gateway Medical Centers, Gilbert, Arizona (Construction Inspector)

Performed building, accessibility, life safety, mechanical, plumbing, and electrical inspections for a new multi-story expansion on an existing hospital (Mercy Gilbert) and a new multi-story hospital (Banner Gateway). Worked closely with general and subcontractors to achieve compliance with registrant designs, international codes, and jurisdiction regulations. Maintained inspection records and verified compliance with field review of changes and product specifications.

Maricopa County Community Colleges,
Goodyear/Surprise, Arizona (Construction Inspector)

Performed building, accessibility, life safety, mechanical, plumbing, electrical, and site inspections for extensive building and site renovations to existing community college buildings. Rio Salado and Estrella Mountain community colleges completed alterations and improvements to assembly and classroom areas. Completed inspections on all disciplines while documenting necessary project corrections and approvals necessary for certificate of occupancy.

* denotes projects completed with other firms

Chuck brings more than 20 years of experience in civil engineering and resource management projects to a project team. He has worked in both the public and private sector as an engineer and manager, and his extensive public sector experience gives him a unique perspective and a valuable set of skills. Previously as President of C.L. Williams Consulting Inc. (CLW), Chuck used his understanding of how to navigate through complex resource and stakeholder issues in order to get his clients public works projects done satisfactorily, on time, and within budget. Today he is able to provide these beneficial skills and insights to each project he works on.

EDUCATION

BS, Civil Engineering, University of Arizona,
Tucson, Arizona, 1986

REGISTRATIONS

Professional Engineer #39614, State of
Colorado

Professional Engineer #6024487-2202, State of
Utah

Professional Engineer #24447, State of Arizona

MEMBERSHIPS

Member, American Society of Civil Engineers

Member, American Public Works Association

Member, Arizona Association of County
Engineers

Member, Arizona Floodplain Management
Association

PROJECT EXPERIENCE

Box Culvert Design, 16th Avenue at Rodeo
Wash, Tucson, Arizona (Project Manager)

This project provides for an all-weather crossing between South 16th Avenue just north of West District Avenue where Rodeo Wash crosses South 16th Avenue. The project included modification of the hydraulic model and design of the new crossing.

Wilmot Road Manhole Rehabilitation Project,
Pima County, Arizona (Project Manager)

The Wilmot Road Manhole Rehabilitation Project involved reconditioning existing concrete manholes with an approved coating product to protect against deterioration from sediment and hydrogen sulfide gases. The coating process, application through holiday (spark) testing, has routinely been verified by a contractor who applies the protective coating. The Pima County Regional Wastewater Reclamation Department (RWRD) requested a re-assessment of through spark testing on selected manholes within the rehabilitation project. Stantec provided construction observation and test monitoring associated with all the spark testing operations used to assess the finished product of the coating operations as outlined within the Standard Specifications and Detail, Subsection 3.3.(B)(viii).

Lake Montezuma - Rimrock Wash and Beaver
Creek School Wash Design Concept Study,
Yavapai County, Arizona (Project Manager)

Chuck is managing the design of flood control structures that will remove residents from the 100-year floodplain. He is developing conceptual design alternatives for two separate watercourses in unincorporated Yavapai County: Rimrock Wash and Beaver Creek School Wash. The scope includes hydrologic and floodplain analysis, Design Concept Report, 404 permit application, design, and submittal of a LOMR to FEMA.

* denotes projects completed with other firms

Chuck Williams PE

Senior Project Manager

Ephraim Canyon Design Concept Study, Santa Cruz County, Arizona (Project Manager)
Frequent flooding of an area between Interstate 19 and Nogales Wash in Nogales, Arizona required evaluating several mitigation measures that could be undertaken to reduce the existing flooding and floodplain within the subject area. The study focused on modification of the existing massive Interstate 19 embankment across Ephraim Canyon and a separate standalone upstream regional detention system. The study recommended the free-standing option and would require an embankment measuring over 900-feet long, 44-feet high and consist of nearly 200,000 cubic yards of local material of a quality that would require an upstream liner system. The estimated cost of the solution was over \$7,000,000 including estimates of permitting fees and outside agency involvement. The study required modifying a previously developed HEC-1 model of the contributing watershed that extended into Mexico and incorporating the revised discharges into the effective hydraulic model: HEC-RAS.

Gila County Courthouse ADA/Access Improvement Project*, Globe, Arizona (Project Principal)
Developed construction improvement plans and bidding documents to improve access for disabled persons and traffic conditions at the main entrance into the Gila County Courthouse.

Russell Road Pedestrian Safety Project, Gila County, Arizona (Project Manager)
This project resulted from a previous study whereby a portion of Russell Road (located in Globe, Arizona) between Golden Hill Drive and Besich Boulevard was recommended to have installed box-beam guardrail to address pedestrian safety concerns. The project included plans, specifications and estimate of cost of construction (>\$450,000), and also included addressing limited sight distance due to an old steep roadway cut-slope located near the northern end of the project. Due to extensive utility conflicts, the project required extensive coordination with utility owners and the Public Works Division.

Roadside Safety Program, Santa Cruz County, Arizona (Project Manager)
In a proactive effort, the Santa Cruz County Public Works Department required the development of a Roadside Safety Program that would include: sign inventorying, obstruction identification and mitigation practices, roadside safety audits, and training of personnel among several other facets of this new Program. The objective included assessing nearly 1/3 of the entire County road system and developed a plan for the remaining roadway inventory along with recommendation(s) of select areas that required immediate mitigation. AADT of the County-wide system varied between 9,000 to less than 400 v/day for both paved and unpaved roadways.

* denotes projects completed with other firms

Tricia is a project engineer with more than 31 years of experience in design and construction management of civil projects. She has been involved in the conceptual design, planning, and design of municipal infrastructure systems including water, wastewater, roads, and stormwater.

Tricia has experience with computer analyses, computer modeling, report preparation, contract preparation, and permit applications. She has been involved in the design and project management for water supply, water distribution, water treatment, wastewater collection, wastewater pumping, and wastewater treatment. Tricia also has roads and drainage experience with operation and maintenance requirements including providing operator assistance and training.

EDUCATION

MBA, University of British Columbia,
Vancouver, British Columbia, 1991

BS, Civil Engineering, Queens University,
Kingston, Ontario, 1981

REGISTRATIONS

Professional Engineer #47519, State of
Washington

Professional Engineer #34417, State of Arizona

MEMBERSHIPS

Member, Engineers Yukon

Member, Association of Professional Engineers
and Geoscientists of British Columbia

PROJECT EXPERIENCE

City of Phoenix-Remote Facilities Security
Improvements Lift Station 40 and Lift Station 41
Construction Management, Phoenix, Arizona
(Project Manager/Civil Engineer)

Ms. Cook provided project management for construction of security improvements to Lift Station 40 and Lift Station 41 in the Phoenix metropolitan area. Ms. Cook was responsible for coordination with the City staff for commissioning and training and she oversaw all the system testing.

Central Phoenix/East Valley Light Rail Transit
Project - Line Section 3, Phoenix, Arizona
(Utilities Lead)

Managed the design for relocated water, sanitary sewer, and storm mains to avoid conflicts with new track and roadway improvements.

Phoenix NW Extension Light Rail Transit System,
Phoenix, Arizona (Project Manager)

Managed the design for relocated water and sanitary sewer to avoid conflicts with new track and roadway improvements for approximately 3.2 miles of new light rail transit track and infrastructure on 19th Avenue from Bethany Home Road to Dunlap Avenue.

Lift Station 41 Odor Control, Phoenix, Arizona
(QA/QC)

Stantec completed a comprehensive odor control Technical Memo for the 13.0 MGD (currently receiving 3.1 MGD) Lift Station (LS) 41 located in southeast Ahwatukee.

Rainier Lift Station, Mesa, Arizona (QA/QC)

Stantec provided design and preparation of contract documents, along with coordination with the City's JOC. We also acquired the Maricopa County Environmental Services Department Approval to Construct and provided limited construction services.

Tricia J. Cook PE

Utility Design and Coordination

Buckeye Wastewater Treatment Facility,
Buckeye, Arizona (Project Manager)

Evaluated the existing lagoon treatment facility and provided planning, design, construction administration, permitting, start-up, and O&M training for a 1.8-MGD ultimate capacity. The process included influent pumps, fine screens, oxidation ditch, intra-channel "boat" clarifier, future tertiary filtration, chlorination / dechlorination, and future reuse pump station. The project also included a NPDES Permit.

91st Avenue Wastewater Treatment Plant
Security Improvements, Phoenix, Arizona
(Project Engineer)

This project consisted of new site perimeter fencing, perimeter and building intrusion detections devices, closed circuit television, and the electronic hardware to integrate all the devices into a functioning security system. The system will be able to be monitored from multiple locations on- and off-site.

Queen Creek Road Arizona Avenue to
McQueen Road Water and Sewer Lines, City
of Chandler, Arizona (Project Engineer)

A new 16-inch waterline and new 12-inch sewer line were designed on Queen Creek Road. The design included eight-inch service stubs for both sewer and water and a deep sewer connection to the existing system. The project also included permitting, specifications, and construction cost estimates.

Glendale Waterline Replacements, Glendale,
Arizona (Project Manager)

Yuma City Waterline Project, Yuma, Arizona
(QA/QC)

Stantec completed the design for multiple reaches of waterline through old Yuma. Trenchless technologies were evaluated and included in the scope to compare to traditional pipe installations. In addition, three different pipe materials were examined for use: ductile iron, PVC, and HDPE.

Central Mesa LRT Extension, Mesa, Arizona
(Lead Water Project Engineer)

Stantec completed the design for utility relocation on Main Street from the end of the starter line to Ashland, as well as design for improvements to the City of Mesa water and sewer lines in the vicinity of the rail.

Val Vista Water Transmission Main, Phase 2,
Mesa, Arizona (Design Engineer)

Stantec is designing 2.3 miles of 60-inch diameter reach transmission main, including utility coordination and relocation, a Salt River Project canal and box culvert crossing, corrosion control design, transportation system analysis, and isolation valves.

City of Phoenix Hydrant Installation -
Sweetwater Lane to Paradise Lane and 39th
Avenue to 51st Avenue, Phoenix, Arizona
(Project Manager)

Ms. Cook completed the design and project management for the installation of new hydrants on existing water lines in an older residential area in the City of Phoenix, including site survey, permitting, and public consultation.

* denotes projects completed with other firms

Marty brings more than 25 years of electrical engineering and project management experience to a project team. His expertise include the design of medium voltage (2.4kV - 46kV) power distribution, low voltage (120V - 600V) power distribution, exterior area lighting, street lighting, interior lighting, grounding, traffic signals, lightning protection, fire alarm, telecommunications, access control, closed circuit television, integrated security, intercom, public address, distributed control systems, and PLC/HMI control systems for design-build, CMAR, and conventional delivery projects.

Marty is directly involved in all aspects of design, including the preparation of specifications and cost estimates. He also possesses general contracting, construction management, and construction administration experience to complement his design experience. His experience in operations, project, and quality management round out his skill set. Marty's Registered Communications Distribution Designer (RCDD), credential is the most widely recognized credential for knowledge and experience in telecommunications system design.

EDUCATION

BS, Electrical Engineering, University of Arizona, Tucson, Arizona, 1989

Certificate, Airfield and Approach Lighting Systems, Transportation Guidance Systems Inc., Phoenix, Arizona, 2004

REGISTRATIONS

Professional Engineer #29346, State of Arizona

Professional Engineer #E16438, State of California

Professional Engineer #E35858, State of Colorado

Professional Engineer #15192, State of Nevada

Professional Engineer #6151786-2202, State of Utah

MEMBERSHIPS

LEED Accredited Professional, U.S. Green Building Council

Member, Building Industry Consulting Service International (BICSI)

#06050, Registered Communications Distribution Designer

PROJECT EXPERIENCE

H.A. Clark Memorial Field - Airport Rescue and Fire Fighting Vehicle and Building, Williams, Arizona (Engineer of Record)

Designed and engineered the 120Y/208V power distribution and lighting system. The design also included a raceway system for the telecommunications and security systems. The facility is used for air rescue and firefighting.

Evo A. DeConcini Federal Courthouse Energy Audit, Tucson, Arizona (Electrical Engineer)
Analyzed the existing energy consumption of the building and to identify possible modifications that would enable the building to use less energy.

Town of Gilbert, Gilbert CNG Fueling System, Gilbert, Arizona (Engineer of Record)
Engineered the 480V power distribution, lighting, and grounding systems for the compressed natural gas facility. The power distribution system complied with the Hazardous Location requirements defined by NEC Article 501, Class I Hazardous Locations.

* denotes projects completed with other firms

Martin (Marty) Armenta PE, RCDD, LEED® AP

Senior Associate

General Services Administration Sandra Day O'Connor Courthouse Tenant Improvements, Phoenix, Arizona (Engineer of Record)

Engineered the modifications to the power and lighting systems as required for alterations and tenant improvements to the fourth floor of the federal courthouse.

Tucson Police Station Standby Power Distribution System Modification (Project Manager/Engineer of Record)

Managed and engineered a modification to the police department building's 480V standby power system. The scope involved new feeders, panelboards and branch circuits for utilization equipment.

City of Tempe Parking Structure Project, Tempe, Arizona

The project included a new five-story parking structure containing a parking garage, retail/office space, and parking pay system.. The project was a fast track design completed in 3 phases: demolition foundation, structural and balance. The design scope involved preparing day and night time interior photo metric calculations for the parking garage as well as nighttime exterior photo metric calculations for the site lighting.

91st Avenue Wastewater Treatment Plant Security Improvements, Phoenix, Arizona (Electrical Engineer)

Design services for a security system consisting of perimeter intrusion, building security, directional signs, and gate controls. Phase I includes a threat-risk assessment and Phase II includes contract document development implementing the TRA recommendations. Project was delivered via design-build.

City of Phoenix Steele Indian School Park Group Ramada Project, Phoenix, Arizona (Engineer of Record)

Engineered the power and lighting systems for the new group ramada.

Tramonto Park, Phoenix, Arizona (Electrical Engineer)

Provided construction administration services for the power distribution and lighting system for a 12-acre community park.

Central Phoenix/East Valley Light Rail Transit Project - Line Section 3, Phoenix, Arizona (Project Engineer/Engineer of Record)

Managed the mechanical, electrical, and plumbing disciplines for the relocation a pedestrian bridge elevator. The bridge and elevator were relocated as needed to accommodate the rail route. Engineered the power, lighting, and fire alarm systems.

City of Phoenix Lift Station 41 Odor Control System, Phoenix, Arizona (Engineer of Record)

Wastewater Treatment Plant Expansion 5.0 MGD, Buckeye, Arizona (Engineer of Record)

Marty engineered and designed a 480V power distribution system, grounding, lighting, motor controls and process control system.

Marana Wastewater Treatment Plant Expansion, Marana, Arizona (Engineer of Record)

Marty engineered and designed the 480V power distribution system, grounding, lighting, motor controls and process control system.

* denotes projects completed with other firms

Ms. Hankins, Professional Wetland Scientist (PWS), specializes in wetland delineations, wetland mitigation, and Section 404 permitting. She has been listed by the Society of Wetland Scientists as a PWS since 2012 and she has been listed by the US Army Corps of Engineers (USACE) as a certified consultant since 1999. She is proficient in streamlining the 404 process to meet project timelines by preparing mitigation plans that are acceptable to both the client and the USACE. She is also certified by the US Fish and Wildlife Service (USFWS) to complete surveys for Utah prairie dog, southwestern willow flycatcher, and Mexican spotted owl. She has authored numerous Biological Assessments/Biological Evaluations (BA/BE) and conducted species-specific surveys for several sensitive wildlife and plants. Ms. Hankins is certified with the Arizona Game & Fish Department to complete burrowing owl surveys. She is proficient in identifying applicable mitigation measures and moving projects through the Section 7 consultation process. Ms. Hankins is also proficient in scoping and staging projects for National Environmental Policy Act (NEPA) compliance. She has worked on projects from initial scoping through drafting the Finding of No Significant Impact (FONSI) for the Forest Service, the Bureau of Land Management (BLM), Federal Emergency Management Agency, USACE, Utah Department of Transportation (UDOT), and Rural Development.

EDUCATION

B.S., Natural Resources, Arizona State University, Tempe, Arizona, 1995

CERTIFICATIONS & TRAINING

Wetland Delineator Certification Program, Salt Lake City, Utah, 1999

Utah Prairie Dog Survey Training, Cedar City, Utah, 2010

Southwestern Willow Flycatcher Training, St. George, Utah, 2011

Southwestern Willow Flycatcher Training, Tucson, Arizona, 2008

USFWS Mexican Spotted Owl Training, Moab, Utah, 2009

AGFD Burrowing Owl Training, Casa Grande, Arizona, 2014

REGISTRATIONS

Professional Wetland Scientist, Society of Wetland Scientists

PROJECT EXPERIENCE

Three Rivers Trail - Wetland Delineation and Environmental Assessment (EA)*, Washington City, Utah (US Waters and Wetland Consultant/NEPA Specialist)

Ms. Hankins completed a wetland delineation in compliance with the USACE standards for a proposed recreation trail extension along the Virgin River in Washington City, Utah. Ms. Hankins prepared appropriate documents to obtain a Section 404 permit from the USACE for impacts to US Waters. Ms. Hankins assisted Stantec staff with preparation of an EA in compliance with BLM standards for a proposed rights-of-way (ROW) grant. This project involved preparation of a BA and Section 7 Consultation for impacts to designated critical habitat for three federally listed threatened and endangered (T&E) species.

* denotes projects completed with other firms

Jill Hankins PWS

Professional Wetland Scientist/NEPA Specialist/Biologist

Buried Natural Gas Line Across the Virgin River*, St. George, Utah (US Waters Consultant)

Ms. Hankins prepared a US waters delineation in compliance with the 1987 USACE Wetland Delineation Manual, 2007 Arid West Supplement, and 2010 Ordinary High Water Mark (OHWM) Delineation Manual for a natural gas line repair across the Virgin River near Bloomington, Utah. Ms. Hankins provided appropriate documents to obtain a Section 404 permit from the USACE for work within designated critical habitat for three federally listed species. Permit documents included; a Biological Assessment for Section 7 consultation resulting in a Biological Opinion from the US Fish & Wildlife Service, scour analysis and dewatering plan for construction, Preconstruction Notice, and a mitigation plan.

Las Vegas Wash Preserve - US Waters Delineation and In-Lieu Fee Mitigation Bank*, Las Vegas, Nevada (Lead Field Crew)

Ms. Hankins lead field crew to complete a US Waters Delineation of ephemeral washes within the Upper Las Vegas Wash drainage basin. This project included remote sensing, ground proofing and data collection, and GPS/GIS mapping over the 26,000 acre preserve in compliance with USACE standards.

Orange Grove and Rancho Mesa Verde Wastewater Improvement, Yuma County, Arizona (Biologist)

This project evaluation involved completing a biological evaluation of state and federally listed species that may occur within the project area and/or may be impacted by construction. Ms. Hankins performed site survey for burrowing owl, migratory birds and raptors.

Toquer Reservoir and Ash Creek Pipeline - Baseline Studies and Waters of the US/Wetland Delineation*, Washington County, Utah (NEPA Specialist)

Ms. Hankins continues to support the NEPA environmental process on a proposed irrigation water reservoir and transmission pipelines near Pintura, Utah. This project involves numerous environmental studies and documents to obtain a ROW grant and a Recreation and Public Purposes Act land grant from the BLM, St. George District. Ms. Hankins is serving as the NEPA Specialist/US Waters Consultant, working with Stantec biologists, hydrologist, GIS specialist, and project engineers.

Ivins Center Street Biological Survey - NEPA Compliance*, Ivins, Utah (NEPA Specialist)

Ms. Hankins completed a Documented Categorical Exclusion (CatX) in compliance with the current NEPA, UDOT, and Federal Highway Administration standards. This project involved widening an existing roadway from two lanes to five lanes. Specific evaluations included in the CatX document were a federally-listed threatened Mojave Desert tortoise survey, raptor survey, cultural resource survey, and a noise study.

* denotes projects completed with other firms

As a Professional Geologist (PG), Certified Environmental Manager (CEM), and Certified Geographic Information System (GIS) Professional (GISP), Marty has more than 25 years of broad environmental experience with expertise in Phase 1 and 2 assessments, site characterization, remediation, risk assessment, low threat closure, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Resource Conservation and Recovery Act (RCRA), landfills, petroleum sites, permitting, reporting, geographic information systems (GIS), groundwater statistical analysis, project management, business development, and staff mentoring. He has managed a wide range of environmental projects, including numerous soil and groundwater characterization/remediation projects for hazardous waste sites throughout Arizona, California, Illinois, and Nevada. Marty has worked closely with regulatory agencies on municipal, county, state, tribal, and federal levels to promote adherence to negotiated clean-up requirements. Prior to working in the environmental industry, Marty spent several years working in the petroleum field.

EDUCATION

MS, Environmental Management, Arizona State University, Tempe, Arizona, 2003

BS, Geology, California Lutheran University, Thousand Oaks, California, 1990

CERTIFICATIONS & TRAINING

Chemical-terrorism Vulnerability Information Authorized User, United States Department of Homeland Security, Arizona, 2016

Supervisor Training, HAZWOPER, Tempe, Arizona, 2016

MSHA Training, Experienced Miner, Tempe, Arizona, 2015

8 Hour Hazardous Waste Operations Annual Refresher, Tempe, Arizona, 2016

40 Hour Hazardous Waste Operations Training, Tempe, Arizona, 1990

Loss Prevention System Training, Tempe, Arizona, 2014

NSC Defensive Driving Course 9th Edition, Tempe, Arizona, 2014

REGISTRATIONS

Registered Geologist #31663, State of Arizona

Certified Environmental Manager #2293, State of Nevada

Certified Geographic Information Systems Professional #91604, GIS Certification Institute

MEMBERSHIPS

Vice President, Environmental Professionals of Arizona

Advisory Board Member, Western Regional Universities Consortium

PROJECT EXPERIENCE

City of Phoenix, City of Glendale, City of Mesa, and Various Private Entities: Multiple Phase I & II ESAs*, Arizona (Arizona Registered Geologist)

As part of due diligence for property transactions, Marty managed the completion of multiple Phase I & II ESAs on residential, commercial, and industrial properties throughout Arizona,

Underground Storage Tank (UST) Sites; Prescott, Arizona. Las Vegas Nevada. and Blythe, California (Arizona RG/Nevada CEM/California PG)

Marty oversaw assessment and remedial activities, conducted extensive reporting, and submitted reimbursement claim packages to the Arizona and California UST Funds on behalf of the clients.

* denotes projects completed with other firms

Martin Minter PG, RG, CEM, GISP

Geologist/Environmental Specialist

Salt River Pima-Maricopa Indian Community* (Task Manager)

Marty managed the rapid assessment of methane above five percent of the lower explosive limit emanating from a closed landfill near the Salt River. The assessment was conducted using numerous direct push vapor points, field instrumentation, and air sampling pumps beneath structures near the affected areas. The results of these activities were used by tribal emergency managers to implement abatement activities, including the evacuation of residences, as needed.

Arizona Department of Agriculture, Arizona Department of Environmental Quality, and US EPA*, Yuma and Somerton Areas, Arizona (Arizona RG)

Marty managed the installation of numerous soil borings and groundwater monitoring wells, as part of a background study funded by the US EPA. The study was to determine the extent of nitrates, pesticides, and herbicides in the shallow aquifer underlying the Yuma and Somerton areas.

Title V Air Permit Application*, Phoenix, Arizona (Task Manager)

Marty assisted with the preparation of Title V Air Permit application, which subsequently received approval from Maricopa County. His responsibilities included identifying over 1,400 individual emission units at the facility, interviewing the individual operators at each location to determine which chemicals were in use, and extensive data entry.

Multiple Water Quality Assurance Revolving Fund (WQARF): Arizona CERCLA Sites*, Phoenix, Tucson, and Nogales, Arizona (Arizona RG)

In order to assess the extent of chlorinated solvents in soil and groundwater at numerous WQARF sites in Phoenix and Tucson, Marty managed the installation of numerous soil borings, direct push points, remedial and groundwater monitoring wells, and vapor recovery tests. The results of these activities were used to identify the individual Responsible Parties (RPs) at each WQARF area and to develop remedial strategies for each site. Marty's responsibilities included the preparation of comprehensive site assessment reports and remedial progress reports.

Dry Cleaning Facility*, Tucson, Arizona (Task Manager/Field Geologist)

Marty managed the installation of numerous groundwater monitoring wells to assess the extent of perchloroethylene (PCE) in the soil and groundwater beneath the site. He supervised the down hole geophysical logging, completed the bore logs and well completion reports, assisted with the soil vapor extraction (SVE) pilot-testing, and conducted groundwater monitoring and reporting.

APP Evaluation*, Arizona (Arizona RG)

Marty evaluated the aquifer protection permit needs for NORD's Johnson Camp Mine. This included an evaluation of the geologic and hydrogeologic conditions for the Dragoon area. He also created a geodatabase for the site as part of developing the Site Conceptual Model.

* denotes projects completed with other firms

Mr. Mel Lawson is a Mining Engineer with 45 years of experience in domestic and international mine management, with an emphasis on underground/surface mining operations and project and construction management, including 25 years in senior operations and project management roles. He has strong operational and technical abilities, with hands-on experience in supervision, safety, permitting, mine development, feasibility studies, contract preparation and execution, project and construction management, project start-up, policy development, and administration.

EDUCATION

BS, Mining Engineering, Michigan Technological University, Houghton, Michigan, 1970

REGISTRATIONS

Certified, Surface and Underground, Mine Safety and Health Administration

Registered Member #1859650, Society for Mining, Metallurgy, and Exploration

PROJECT EXPERIENCE

Mining

Pinto Valley Operations – Phase 1 Restart, Miami, Arizona (Project Sponsor)
Provided project over-sight on Stantec EPCM activities for the restart of the Pinto Valley Operation. Provided Senior Management guidance and review through all phases of work—from scope development through execution. This included continuous on-site review of Stantec’s activities.

Pinto Valley Operations – Infrastructure Estimate, Miami, Arizona (Project Manager)
Managed the Pinto Valley Phase 2 Identification Study. Provided cost, schedule, and resource estimates for surface infrastructure and facilities based on site experience gained during the Phase 1 Restart EPCM project.

Curis Resources (Arizona) Inc. – Florence Copper*, Florence, Arizona (Vice President Project Development)

Executive in charge of development of Florence Copper, a green-field in-situ copper project. Hired and manage staff of nine professionals. Opened project office and implemented policies and procedures for Company start-up. Worked with IPO start-up capital, commenced final project feasibility study while providing leadership on permitting, community, and corporate affairs. Awarded EPCM contract for Phase I piloting facilities. Worked with Investor Relations and Company executive staff in supporting project funding initiatives.

Rio Tinto Minerals – Capital Projects* (Director, Technical Services)

Responsible for annual +\$US 25M capital projects budget. Managed 24-person engineering and environmental staffs in addition to operational responsibility for 50-MW co-generation plant, steam plant, and all site utilities.

* denotes projects completed with other firms

Mel Lawson QP

Principal / Senior Consulting Engineer

Rio Tinto Minerals – Boric Acid Plant – Phase II Expansion*, Boron, California (Sr. Project Manager)

Responsible for management and construction of \$US 50.4M expansion of Boric Acid Plant. Prepared, implemented, and directed EPCM activities, commissioning, and turn-over. Project successfully completed without disrupting plant operations. Project completed two weeks ahead of schedule and \$2.5M under budget. 205,000 construction man-hours with two medical reportable and no lost time accidents. Promoted to Director of Expansion Projects.

Newmont Mining Corporation – Leeville Project*, Nevada (Project Manager)

Responsible for engineering, construction, development, and management of \$US 225M Leeville underground mine. Managed \$US 6.5M detailed EP contract and implemented construction plan. Directed in-house construction management team of 20 engineers and project controls staff. Major project components included two hydrostatic lined shafts; refurbishment and installation of four-mine hoists; two headframes and hoist houses; seven deep dewatering wells; water treatment plant; and all site surface infrastructure. Contractor safety performance highlighted by only four minor lost-time accidents (LTA incident rate = 1.6).

Newmont Mining Corporation – Deep Post Project* (Project Manager / Mine Manager)
Prepared final feasibility study and funding request, directed detailed engineering, and implemented construction plan for \$US 85M Deep Post underground mine. Major project components included 2 portals; 21,000 ft of trackless development; 18 ft diameter shotcrete lined ventilation shaft; underground shop; and underground backfill plant. Managed Deep Post operations during one-year transition from development to production. Exceeded all production and construction objectives while achieving a MSHA reportable incident rate of 2.0 with no lost time accidents. Received Nevada Mining Association award for commitment to safety and safety performance of Deep Post Mine.

Newmont Mining Corporation – Asset Exchange*, Nevada

Served as Newmont's Technical Representative in the asset exchange between Barrick Goldstrike and Newmont Mining.

Newmont Mining Corporation – High Desert Joint Venture*, Carlin, Nevada (Manager)

Manager of Leeville 60/40 joint venture with Barrick Goldstrike Mines. Prepared and submitted Plan of Operations for project Environmental Impact Statement (EIS) and completed prefeasibility study.

* denotes projects completed with other firms

Doug serves as Transportation Project Manager for Stantec where he has been a key part of the Transportation team for more than 19 years. Doug possesses a breadth of ability and experience ranging from project management to project design and planning. His project experience comprises roadway safety assessments; corridor improvement projects ranging from urban arterials to pedestrian enhancements; shared use paths; low volume rural roadways; and roundabouts. Additionally, he has been involved in all phases of the public involvement and outreach and has worked extensively with clients in effectively presenting concepts to the public and regulatory authorities for their consideration and acceptance.

He has successfully worked with clients throughout Arizona from as far south as Yuma to as far north as Page. He also has experience working on projects in New Mexico, New York, Texas, and Colorado.

EDUCATION

BS, Civil Engineering, University of Arizona,
Tucson, Arizona, 1994

REGISTRATIONS

Professional Engineer #22155, State of New Mexico

Professional Engineer #34006, State of Arizona

MEMBERSHIPS

Past President, Southern Arizona Branch,
American Public Works Association (Arizona)

Member, American Society of Civil Engineers

PROJECT EXPERIENCE

Tempe Town Lake Multi-Use Path, Tempe,
Arizona (Project Engineer)

Mr. Moseke was responsible for designing the Multi-Use path along the north side of the Tempe Town Lake from Mill Avenue to Rural Road. He was also responsible for the design of the Park grading on the south side of the lake. Path design on the south side of the lake at Rural Road was also Doug's responsibility.

Tucson Modern Streetcar – Line Section Two,
Tucson, Arizona (Project Manager)

Stantec was a member of the team on the Modern Streetcar project, a long anticipated transportation option for the community. Doug was responsible for overseeing the production of plans for all utility, drainage, roadway, traffic signals, and lighting modifications required to install track through downtown Tucson. He participated in meetings with stakeholders such as the City of Tucson, Utility Companies, the Downtown Partnership, Parkwise, and Business owners.

Downtown Tucson Infrastructure
Improvements, Tucson, Arizona (Project
Engineer)

Doug oversaw the preparation of construction drawings for roadway, streetscape, utility, and signal and lighting plans in downtown Tucson in preparation for the modern streetcar. He participated in public presentations to both residents in the area as well as council members. He also regularly attended meetings to coordinate with utilities, citizen action committees, and governmental agencies.

Douglas M. Moseke PE

Project Manager, Transportation Infrastructure

Santa Cruz Shared Use Path, Marana, Arizona
(Project Manager)

Mr. Moseke managed the design of 3,400 feet of Shared Use Path from Cortaro Road north along the west side of the Santa Cruz River. This project was completed as part of a Town of Marana On-Call Contract.

3rd Street and Swan Road HAWK, Tucson, Arizona (Project Engineer)

Mr. Moseke provided the ADA compliant sidewalk and sidewalk ramp design for the multi-use path crossing of Swan Road and 3rd Street. This project was part of a City of Tucson On-Call Contract.

6th Street and Highland Avenue, Tucson, Arizona (Project Manager)

Doug was responsible for overseeing the preparation of construction documents for improvements to the intersection of 6th Street and Highland Avenue. Improvements include the addition of a bus pullout on the northwest corner of the intersection as well as widening Highland Avenue to include a north northbound bicycle lane. Minor waterline and signal pole modifications were required to provide room for the new bike lane. This project was completed as part of a City of Tucson On-Call Contract.

70th Street and Sweetwater Traffic Circle, Phoenix, Arizona (Project Manager)

Worked with the Stantec Design Team and the City of Phoenix to prepare construction documents to retrofit a traffic circle into an existing intersection. While overseeing the design of the project, he also handled the project finances and schedule.

Hayden Road & Shea Boulevard, Scottsdale, Arizona (Project Manager)

Responsible for assuring a high quality set of construction documents for this intersection widening project. Other responsibilities included monitoring design team; coordination with client, utilities, sub consultants, and the public; quality control; and completing the project within time and budget.

Cactus Road Improvements (Pima Freeway to Frank Lloyd Wright Boulevard), Scottsdale, Arizona (Project Manager)

Doug was responsible for overall project management of this three-mile, \$1.5 million project. He coordinated completion of final construction documents with the city, utility companies, sub consultants, and the in-house design team to prepare a thorough set of final documents. He also participated in multiple public meetings to exchange information regarding the project.

96th Street Improvements - Shea Boulevard to Redfield Road (Project Manager)

Oversaw the development of construction documents to improve almost 2.5 miles of improvements along 96th Street from Shea Boulevard to Redfield Road. The \$5.6 million improvements widened an existing two-lane roadway to include one travel lane in each direction with a bike lane and the addition of a raised landscaped median. Two modern roundabouts were also designed as part of the project.

* denotes projects completed with other firms

Vinay has been working in the roadway and traffic engineering field for 15 years. His specific experience includes geometric roadway design, traffic operations analysis, traffic impact analysis, traffic signal design, and transportation planning. He is an experienced user of traffic analysis software, including SYNCHRO, SIMTRAFFIC, and HCS. He also has familiarity with INROADS, PARKCAD and AUTOTURN software.

EDUCATION

MS, Transportation Engineering, University of Las Vegas, Las Vegas, Nevada, 2006

M.Tech, Regional Engineering College, Warangal, Andhra Pradesh, 1999

BE, Engineering, Andhra University, Visakhapatnam, Andhra Pradesh, 1997

REGISTRATIONS

Certified Professional Traffic Operations Engineer #3234, Institute of Transportation Engineers

Professional Engineer #50172, State of Arizona

MEMBERSHIPS

Member, Institute of Transportation Engineers

Member, Transportation Research Board

PROJECT EXPERIENCE

Pedestrian Crossing at Lesueur and Main Street, Mesa, Arizona (Traffic Design)

Provided traffic design engineering for the intersection of Lesueur and Main Street in Mesa. This helps to solve the issue of pedestrians having to walk a long way to cross the road from the light rail section to either side of the street.

Queen Creek Road, Val Vista to Higley Road, Gilbert, Arizona (Traffic Engineer)

Performed traffic signal and ITS design for a roadway widening in Gilbert, Arizona.

Porter Park Pathway, Mesa, Arizona (Traffic Design)

Performed design for the 3,000-foot long, multi-use pathway project. The design services included traffic signals, signing and striping, traffic and roadway design—including design of speed table at Kino Drive, and ADA ramps at the intersection of Mesa Drive and 8th Street.

Roadway Safety Assessment (RSA) for the Intersection of 43rd Ave and Thomas Road, Phoenix, Arizona (Traffic Engineer)

Performed roadway safety audit by evaluation of the safety of all road users, qualitatively estimates and reports on potential road safety issues, and identifies opportunities for safety improvements.

SR 189 Pedestrian Undercrossing, Nogales, Arizona (Traffic Engineer)

Performed traffic signal, ITS, and signing and striping design for the port of entry at US-Mexico border.

Traffic Signal Design Modifications, Glendale, Arizona (Designer)

Provided traffic design solutions for the modifications of 12 arterial-arterial intersection in Glendale, Arizona.

Vinay Kumar Vanapalli PE, PTOE

Transportation Engineer

Central Mesa LRT Extension, Mesa, Arizona
(Transportation Engineer)

Responsible for developing traffic signal plans for all the 22 traffic signal locations including eight pedestrian crossing signals. Also developed plans for the traffic signal interconnect modifications.

Expansion and Modernization of the Mariposa Land Port of Entry, Nogales, Arizona
(Transportation Engineer)

Responsible for developing signing and striping plans and traffic signal plans for the outbound inspection, commercial POV and ADOT inspection booths.

ADOT Truck Weigh and Credential Processing Facility – Mariposa Land Port of Entry, Nogales, Arizona (Transportation Engineer)

Responsible for developing signing and striping plans and conduit and wiring network plans for the special systems.

ADOT State Highway Nogales Premier Connection, SR 189, Nogales, Arizona
(Transportation Engineer)

Responsible for developing signing and striping plans and traffic signal plans for this road widening project.

I-8 Frontage Roads - Avenue 8E to Avenue 13E, Yuma, Arizona (Traffic Engineer)

Provided traffic engineering services for the widening of I-8 Frontage Roads from the two-lane roadway to two-lane with center turn lane from Avenue 10 East to Fortuna Road.

Responsible for developing traffic signal plans, signing and striping plans, and MOT plans.

Higley-Recker-Williams Field Road Improvements, Gilbert, Arizona (Traffic Engineer)

Traffic Engineer for part of the Traffic Signal Design, prepared the plan, pole, conduit, conductor, and equipment schedule. Prepared the Internally Illuminated Street Name Signs (ISNS) details for all the seven project intersections in accordance with the Town of Gilbert Guidelines.

Town of Buckeye Comprehensive Transportation Master Plan, Buckeye, Arizona
(Transportation Engineer)

Modified the socio-economic input matrix from the Maricopa Association of Governments (MAG) in accordance with the latest available general plan of Town of Buckeye.


Before and After Queue Length Study, Glendale (Multiple Schools), Arizona (Traffic Engineer)

A traffic data collection and queue delay study for seven intersections near high schools in Glendale to measure the effectiveness of revised signal timing. This study was part of a MAG on-call contract for 2013-2016.

Before and After Travel Time Study, Mesa, Arizona (Traffic Engineer)

Performed a before and after study in the City of Mesa for 15 signalized intersections along University Drive to document the impact of new signal coordination timing. This study was part of a MAG on-call contract for 2013-2016.

* denotes projects completed with other firms

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ATTACHMENT 3-B SUPPLEMENTS:

(For submission of additional Key Personnel qualifications beyond the number of forms provided in the Offer Documents: Offeror shall copy the Key Personnel Form in its entirety and complete in a separate Word Document for submission with the offer, and list file name below or type "None" on first line if not applicable. Offeror shall title Supplement(s) with the same title as named herein and upload with offer.).

	Title	Document Date	No. of pages	Purpose in Offer
1.	additional_key_personnel.pdf	2/15/2017	9	Qualifications for additional personnel
2.				
3.				
4.				
5.				
6.				
7.				

(NOTE: The Offeror may insert additional rows as required).

End of Attachment 3-B



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Attachment 3-C
Proposed Subcontractors

RESERVED FOR AWARDED DESIGN PROFESSIONAL UPON SERVICE REQUEST

Check "NO" if you WILL NOT subcontract any portion of the Work and will therefore be carrying out all of the Work with your own personnel.

<input checked="" type="checkbox"/>	NO, the Offeror will not subcontract any portion of the Work.
-------------------------------------	---

If you WILL subcontract any portion of the Work, check "YES" below and list name of persons or companies you propose to use as subconsultants.

- Fill in the information in the chart below for every proposed subcontractor – indicate the role and services work the subconsultant may provide in performing any of the services as outlined in the Requirements Document in the solicitation.
- Offeror shall complete an Attachment 3-B Key Personnel Form in its entirety for each proposed subcontractor and submit with offer. The term "Subconsultant" shall be annotated in parenthesis after each subcontractor key personnel name typed in the "Name" section of the 3-B form.
- State may demand additional information about proposed subcontractors as a precondition of award.

<input type="checkbox"/>	YES, the Offeror will use the Subcontractors listed below:
--------------------------	--

	Subcontractor Key Personnel Name; Subcontractor Firm Name and Contact Information	List Proposed Subcontractor Role(s) and Services	Capacity % Dedicated to Perform the Proposed Role/Service For Any Project Under This Contract
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			



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ATTACHMENT 3-C SUPPLEMENTS:

(Offeror to insert as required and list here or type "None" on first line. Offeror shall title any Supplement(s) with the same title as named herein and upload with offer.)

	Title	Document Date	No. of pages	Purpose in Offer
1.	None			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				

End of Attachment 3-C



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Attachment 3-D
Performance Guarantee

RESERVED FOR AWARDED DESIGN PROFESSIONAL UPON SERVICE REQUEST

End of Attachment 3-D



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Attachment 4
Pricing Sheet

RESERVED FOR AWARDED DESIGN PROFESSIONAL SERVICE ORDER CONTRACT

End of Attachment 4

	<p>Request for Qualifications Solicitation No. ADSP017-00006796 Description: 2017 Annual Professional Services List</p>	<p>Arizona Department of Administration State Procurement Office 100 N 15th Ave., Suite 201 Phoenix, AZ 85007</p>
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Attachment 5-A
Confidential Information Designation

All materials submitted as part of a response to a solicitation are subject to Arizona public records law and will be disclosed if there is an appropriate public records request at the time of or after the award of the contract. Recognizing there may be materials included in a solicitation response that are proprietary or a trade secret, a process is set out in A.A.C. R2-7-103 (copy attached) that will allow qualifying materials to be designated as confidential and excluded from disclosure. For purposes of this process the definition of "trade secret" will be the same as that set out in A.A.C. R2-7-101(52).

Complete this form return it with your Offer along with the appropriate supporting information to assist State in making its determination as to whether any of the materials submitted as part of your Offer should be designated confidential because the material is proprietary or a trade secret and therefore not subject to disclosure.

STATE WILL NOT CONSIDER ANY MATERIAL IN YOUR OFFER "CONFIDENTIAL" UNLESS DESIGNATED ON THIS FORM.

Check one of the following – if neither is checked, State will assume that as equivalent to "DOES NOT":

<input checked="" type="checkbox"/>	This response DOES NOT contain proprietary or trade secret information. I understand that my entire response will become public record in accordance with A.A.C. R2-7-C317.
<input type="checkbox"/>	This response DOES contain trade secret information because it contains information that: <ol style="list-style-type: none"> 1. Is a formula, pattern, compilation, program, device, method, technique or process, AND 2. Derives independent economic value, actual or potential, from not being generally known to, and not being readily ascertainable by proper means by, other persons who can obtain economic value from its disclosure or use; AND 3. Is the subject of efforts by myself or my organization that are reasonable under the circumstances to maintain its secrecy.

NOTE: Failure to attach an explanation may result in a determination that the information does not meet the statutory trade secret definition. All information that does not meet the definition of trade secret as defined by A.A.C. R2-7-101(52) will become public in accordance with A.A.C. R2-7-C317. State may make its own determination on materials in accordance with A.A.C. R2-7-103.

If State agrees with Offeror's designation of trade secret or confidentiality and the determination is challenged, the undersigned hereby agrees to cooperate and support the defense of the determination with all interested parties, including legal counsel or other necessary assistance.

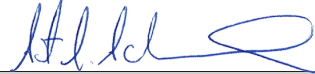
By submitting this response, Offeror agrees that the entire Offer, including confidential, trade secret and proprietary information may be shared with an evaluation committee and technical advisors during the evaluation process. Offeror agrees to indemnify and hold State, its agents and employees, harmless from any claims or causes of action relating to State's withholding of information based upon reliance on the above representations, including the payment of all costs and attorney fees incurred by State in defending such an action.

Stantec Consulting Services Inc.

Offeror Company Name

8211 South 48th Street

Address



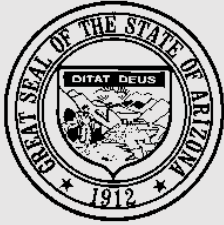
Signature of Authorized Person

Scot Schlund, PE

Printed Name

PART 4 of the Solicitation Documents:
Offer Forms (Attachments)

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 Phoenix, AZ 85007

Phoenix, Arizona 85044

Managing Senior Principal

City	State	Zip
------	-------	-----

Title

ATTACHMENT 5-A SUPPLEMENTS:

(Offeror to insert as required and list here or type "None" on first line. Offeror shall title any Supplement(s) with the same title as named herein and upload with offer.)

	Title	Document Date	No. of pages	Purpose in Offer
1.	None			
2.				
3.				
4.				
5.				
6.				
7.				

End of Attachment 5-A



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**Copy of A.A.C. R2-7-103 [Confidential Information]
as was current at time of Solicitation issuance**

PROVIDED FOR REFERENCE ONLY

- A. *If a person wants to assert that a person's offer, specification, or protest contains a trade secret or other proprietary information, a person shall include with the submission a statement supporting this assertion. A person shall clearly designate any trade secret and other proprietary information, using the term "confidential". Contract terms and conditions, pricing, and information generally available to the public are not considered confidential information under this Section.*
- B. *Until a final determination is made under subsection (C), an agency chief procurement officer shall not disclose information designated as confidential under subsection (A) except to those individuals deemed by an agency chief procurement officer to have a legitimate state interest.*
- C. *Upon receipt of a submission, an agency chief procurement officer shall make one of the following written determinations:*
- 1. The designated information is confidential and the agency chief procurement officer shall not disclose the information except to those individuals deemed by the agency chief procurement officer to have a legitimate state interest;*
 - 2. The designated information is not confidential; or*
 - 3. Additional information is required before a final confidentiality determination can be made.*
- D. *If an agency chief procurement officer determines that information submitted is not confidential, a person who made the submission shall be notified in writing. The notice shall include a time period for requesting a review of the determination by the state procurement administrator.*
- E. *An agency chief procurement officer may release information designated as confidential under subsection (A) if:*
- 1. A request for review is not received by the state procurement administrator within the time period specified in the notice; or*
 - 2. The state procurement administrator, after review, makes a written determination that the designated information is not confidential.*



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Attachment 5-B
Conformance Statements

STATE WILL NOT CONSIDER ANY EXCEPTIONS UNLESS DESIGNATED ON THIS FORM.

READ THE INSTRUCTIONS TO OFFERORS BEFORE TAKING ANY EXCEPTIONS – TAKING EXCEPTIONS CAN BE
 GROUNDS FOR STATE REJECTING YOUR OFFER IN EVALUATION.

CONFORMANCE TO THE INSTRUCTIONS:
 (PART 1 OF THE SOLICITATION)

Check one of the following – if neither is checked, State will assume that as equivalent to “YES”:



YES – Offeror acknowledges that it has read and understands the Solicitation Summary in Section 1-A of the Solicitation Documents and the Instructions to Offerors in Section 1-B of the Solicitation Documents and the and attests that its Offer complies with both.



NO – Offeror acknowledges that it has read and understands the Solicitation Summary in Section 1-A of the Solicitation Documents and the Instructions to Offerors in Section 1-B of the Solicitation Documents, and attests that its Offer complies with both EXCEPT FOR the exceptions listed in **Attachment 5-B Supplement 1**.

CONFORMANCE TO THE CONTRACT TERMS AND CONDITIONS:
 (PART 2 OF THE SOLICITATION)

Check one of the following – if neither is checked, State will assume that as equivalent to “YES”:



YES – Offeror acknowledges that it has read and understands the [AIA Documents \(for state agencies only\), and Special Terms and Conditions and the Uniform Terms and Conditions, along with their respective Exhibits and Appendices, in Part 2 of the Solicitation Documents](#) and attests that its Offer complies with both.



NO – Offeror acknowledges that it has read and understands the [AIA Documents \(for state agencies only\), and Special Terms and Conditions and the Uniform Terms and Conditions, along with their respective Exhibits and Appendices](#) in Part 2 of the Solicitation Documents and attests that its Offer complies with both EXCEPT FOR the exceptions listed in **Attachment 5-B Supplement 2**.

CONFORMANCE TO THE TECHNICAL DOCUMENTS:
 (PART 3 OF THE SOLICITATION)

Check one of the following – if neither is checked, State will assume that as equivalent to “YES”:



YES – Offeror acknowledges that it has read and understands the [Requirements Document and the Compensation Document](#) in Part 3 of the Solicitation Documents and attests that its Offer complies with both.

PART 4 of the Solicitation Documents:
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NO – Offeror acknowledges that it has read and understands the [Requirements Document and the Compensation Document](#), in Part 3 of the Solicitation Documents and attests that its Offer complies with both EXCEPT FOR the exceptions listed in **Attachment 5-B Supplement 3**.



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ATTACHMENT 5-B Supplement No. 1:
Exceptions to Instructions

Article / Paragraph or Exhibit Reference	Proposed Changes / Alternate Language	Rationale for Proposed Change
Section 1-A: Solicitation Summary		
Section 1-B: Instructions to Offerors		

Stantec Consulting Services Inc.

Company Name

Signature of Person Authorized to Sign



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ATTACHMENT 5-B Supplement No. 2:
Exceptions to Contract Terms & Conditions

Article/ Paragraph or Exhibit Reference	Proposed Changes / Alternate Language	Rationale for Proposed Change
Section 2-A: Special Terms & Conditions		
Section 2-B: Uniform Terms & Conditions		
Section 2-C: AIA Documents with AZ Modifications		

Stantec Consulting Services Inc.

Company Name

Signature of Person Authorized to Sign

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Attachment 5-C
Insurance Evidence

RESERVED FOR AWARDED DESIGN PROFESSIONAL UPON SERVICE REQUEST

End of Attachment 5-C



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**Attachment 5-D
 Offer Checklist**

STATE MAY DETERMINE YOUR PROPOSAL IS NON-RESPONSIVE IF YOU DO NOT SUBMIT ALL ATTACHMENTS.

	DOCUMENT	SUBMITTED
1.	Attachment 1: Offer and Acceptance Form	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
2.	Attachment 2-A: Experience and Capacity	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
3.	Attachment 2-A: References	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
4.	Attachment 2-B: Organization Profile	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
5.	Attachment 3-A: Method Proposal – RESERVED FOR AWARD	<input type="checkbox"/> YES <input checked="" type="checkbox"/> no
6.	Attachment 3-B: Key Personnel Proposal	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
7.	Attachment 3-C: Proposed Subcontractors – RESERVED FOR AWARD	<input type="checkbox"/> YES <input checked="" type="checkbox"/> no
8.	Attachment 3-D: Performance Guarantee – RESERVED FOR AWARD	<input type="checkbox"/> YES <input checked="" type="checkbox"/> no
9.	Attachment 3-E: Israel Boycott Form	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
10.	Attachment 4: Pricing Sheet – RESERVED FOR AWARD	<input type="checkbox"/> YES, <input checked="" type="checkbox"/> no
11.	Attachment 5-A: Confidential Information Designation	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
12.	Attachment 5-B: Conformance Statements	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
13.	Attachment 5-C: Insurance Evidence – RESERVED FOR AWARD	<input type="checkbox"/> YES <input checked="" type="checkbox"/> no
14.	Attachment 5-D: Offer Checklist	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
15.	Excel File: Project Experience Number of Projects and Revenue	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
16.	Excel File: 2017 Professional Services List of Firms Services	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no

End of Attachment 5-D

End of Part 4

PART 4 of the Solicitation Documents:
 Offer Forms (Attachments)

Date: February 7, 2017
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