



Offer and Acceptance

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

SOLICITATION NO.: ADSP016-00005912 Request
for Qualifications: 2016 Annual Professional
Services List

PAGE
1

Offeror: AZTEC Engineering Group, Inc.

OF
1

OFFER

TO THE STATE OF ARIZONA:

The Undersigned hereby offers and agrees to furnish the material, service or construction in compliance with all terms, conditions, specifications and amendments in the Solicitation and any written exceptions in the offer. Signature also certifies Small Business status.

AZTEC Engineering Group, Inc.
Company Name

Curt Slagell
Signature of Person Authorized to Sign Offer

4561 East McDowell Road
Address

Curt Slagell, PE
Printed Name

Phoenix AZ 85008
City State Zip

Senior Vice President
Title

Phone: (602) 319-8596

cslagell@aztec.us
Contact Email Address

Fax: (602) 454-0403

By signature in the Offer section above, the Offeror certifies:

1. The submission of the Offer did not involve collusion or other anticompetitive practices.
2. The Offeror shall not discriminate against any employee or applicant for employment in violation of Federal Executive Order 11246, State Executive Order 2009-9 or A.R.S. §§ 41-1461 through 1465.
3. The Offeror 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 shall result in rejection of the offer. Signing the offer with a false statement shall void the offer, any resulting contract and may be subject to legal remedies provided by law.
4. The Offeror certifies that the above referenced organization IS/ IS NOT a small business with less than 100 employees or has gross revenues of \$4 million or less.

ACCEPTANCE OF OFFER

The Offer is hereby accepted.

The Contractor is now bound to sell the materials or services listed by the attached contract and based upon the solicitation, including all terms, conditions, specifications, amendments, etc., and the Contractor's Offer as accepted by the State.

This Contract shall henceforth be referred to as Contract No. ADSP016-00005912

The effective date of the Contract is March 1, 2016

The Contractor is cautioned not to commence any billable work or to provide any material or service under this contract until Contractor receives purchase order, contract release document or written notice to proceed.

State of Arizona
Awarded this 29 day of February 2016

[Signature]

Procurement Officer



ATTACHMENT I – General Qualifications

ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

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 ARS § 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 ARS § 32-101(B.19.).

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

SPECIFIC INSTRUCTIONS:

1. Complete this form for each branch office seeking work under this RFQ.
 - a. – e. **Firm (or Branch Office) Name and Address.** Self-explanatory.
 - f. **Year Established.** Enter the year the firm (or branch office, if appropriate) was established under the current name.
 - g. **Ownership.**
 - (g1). *Type.* Enter the type of ownership or legal structure of the firm (sole proprietor, partnership, corporation, joint venture, etc.).
 - (g2). *Small Business Status.* A firm is a small business if the firm has less than 100 employees **or** has gross revenues of \$4 million or less.
 - h.-j. **Point of Contact.** Provide this information for a representative of the firm that the Customer can contact for additional information. The representative must be empowered to speak on contractual and policy matters.
 - k. **Name of Firm.** Enter the name of the firm.
2. **Employees by Discipline.**
 - a. Select disciplines from the List of Disciplines (Function Code) listed on Page 3 of 4 Instructions. For employees that do not qualify for any of the disciplines, select "Other". *Note: The intended searchable database indicated in the RFQ will be populated from the Qualifications Form I Excel attachment only.*
 - 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.
3. **Profile of Firm's Experience and Annual Average Revenue for Last Year.**
 - a. Enter the approximate number of projects the firm (or branch) has done attributable by Profile Code listed on Page 3 of 4 Instructions over the last year.



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ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

- b. Enter the appropriate Profile Codes from Instructions Pages 3 of 4 that represent the type of work the firm (or branch) has done over the last year.
 - c. Using the Revenue Index Number on Page 3 of 6 Form, indicate the approximate revenue the firm has earned over the last year per Profile Code entered into the table.
4. **Resumes of Key Personnel Proposed for This Contract.** Complete this section for each key person who will participate in this contract.
- a. Self-explanatory.
 - b. Self-explanatory
 - c. Total years of relevant experience (block c1), and years of relevant experience with current firm, but not necessarily the same branch/office (block c2).
 - d. Name, City and State of the firm where the person currently works, which must correspond with one of the firms (or branch office or a firm, if appropriate) listed in Section 1.
 - e. Provide information on the highest relevant academic degree(s) received. Indicate the area(s) of specialization for each degree.
 - f. Provide information on current relevant professional registration(s) and in which State(s) they are current.
 - g. Provide information on any other professional qualifications relating to this contract, such as education, professional registration, publications, organizational memberships, certifications, training, awards, and foreign language capabilities.
 - h. Provide information on no more than five (5) projects in the last year which the person had a significant role that demonstrates the person's capability relevant to her/his proposed role in this contract. These projects do not necessarily have to be any of the projects presented in Section 5 for the project team if the person was not involved in any of those those projects or the person worked on other projects that were more relevant than the team projects in Section 5. Use the check box provided to indicate if the project was performed with any office of the current firm. If any of the professional services or construction projects are not complete, leave Year Completed blank and indicate the status in Brief Description and Specific Role.
5. **Example Projects Which Best Illustrate Firms Qualification for this contract.** 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 contract. Complete one Section 5 for each project. List no more than five (5) projects.
- 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.
6. **Additional Information.** Use this section to provide additional information you feel may be necessary to describe your firm's qualifications for this contract.
7. **Annual Average Professional Services Revenues of Firm for Last 3 Years.** Complete this block for the firm or branch office for which this form is completed. In column a, enter an approximate percentage of total work attributable to State, Federal or Municipal Work. In column b, enter an approximate percentage of total work attributable to Non-Government work. Percentages should take into consideration work completed over the last 3 years.



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ADSP016-00005912

STATE PROCUREMENT OFFICE
Department of Administration
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8. **Authorized Representative.** An authorized representative of the firm or branch office must sign and date the completed form. Signing attests that the information provided is current and factual. Provide the name and title of the authorized representative who signed the form.

List of Disciplines (Function Codes) for Question 2

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

List of Experience Categories (Profile Codes for Question 3)

- | | |
|---|--|
| Acoustics, Noise Abatement | Dams (<i>Concrete; Arch</i>) |
| Aerial Photography; Airborne Data and Imagery Collection and Analysis | Dams (<i>Earth; Rock</i>); Dikes; Levees |
| Activity Centers | Desalinization (<i>Process and Facilities</i>) |
| Air Pollution Control | Design-Build - Preparation of Requests for Proposals |
| Airports; Navajds; Airport Lighting; Aircraft Fueling | Digital Elevation and Terrain Model Development |
| Airports; Terminals and Hangars; Freight Handling | Digital Orthophotography |
| Agricultural Development; Grain Storage; Farm Mechanization | Dining Halls; Clubs; Restaurants |
| Animal Facilities | Dredging Studies and Design |
| Anti-Terrorism/Force Protection | Design & Planning Structured Parking Facilities |
| Area Master Planning | Detention Security Systems |
| Auditoriums and Theaters | Disability / Special Needs |
| Automation; Controls; Instrumentation | Ecological and Archeological Investigations |
| Barracks; Dormitories | Educational Facilities; Classrooms |
| Bridge Design: Bridges | Electrical Studies and Design |
| Cartography | Electronics |
| Cemeteries (<i>Planning and Relocation</i>) | Elevators; Escalators; People-Movers |
| Chemical Processing and Storage | Energy / Water Auditing Savings |
| Child Care/Development Facilities | Energy Conservation; New Energy Sources |
| Codes; Standards; Ordinances | Environmental Impact Studies, Assessments or Statements |
| Cold Storage; Refrigeration and Fast Freeze | Fallout Shelters; Blast-Resistant Design |
| Commercial Building (<i>Low Rise</i>); Shopping Centers | Fire Protection |
| Community Facilities | Fisheries; Fish Ladders |
| Communications Systems; TV; Microwave | Forensic Engineering |
| Computer Facilities | Garages; Vehicles Maintenance Facilities; Parking |
| Conservation and Resource Management | Gas Systems (<i>Propane; Natural, Etc.</i>) |
| Construction Management | Geodetic Surveying: Ground and Airborne |
| Construction Surveying | Heating; Ventilating; Air Conditioning |
| Corrosion Control; Cathodic Protection Electrolysis | Highways; Streets; Airfield Paving; Parking Lots |
| Cost Estimating; Cost Engineering and Analysis; Parametric Costing; Forecasting | Historical Preservation |
| Cryogenic Facilities | Hospital and Medical Facilities |
| Construction Materials Testing | Hotels; Motels |
| | <i>Housing (Residential, Multi-Family; Apartments; Condominiums)</i> |



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ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

Hotels; Motels
Hydraulics and Pneumatics
Hydrographic Surveying
Industrial Buildings; Manufacturing Plants
Industrial Processes; Quality Control
Industrial Waste Treatment
Intelligent Transportation Systems
Infrastructure
Irrigation; Drainage
Judicial and Courtroom Facilities
Laboratories; Medical Research Facilities
Land Surveying
Landscape Architecture
Libraries; Museums; Galleries
Lighting (*Interior; Display; Theater, Etc.*)
Lighting (*Exteriors; Streets; Memorials; Athletic Fields, Etc.*)
Labs - General
Labs – Research – Dry
Labs – Research – Wet
LEED Accredited A/E
LEED Independent 3rd Party Building Commissioning
Mapping Location/Addressing Systems
Materials Handling Systems; Conveyors; Sorters
Metallurgy
Materials Testing
Measurement / Verification / Conservation Water Consumption Savings
Mining and Mineralogy
Medical Related
Modular Systems Design; Fabricated Structures or Components
Mold Investigation
Museums
Nuclear Facilities; Nuclear Shielding
Office Buildings; Industrial Parks
Outdoor Recreation
Petroleum and Fuel (*Storage and Distribution*)
Photogrammetry
Pipelines (*Cross-Country - Liquid and Gas*)
Phase I Environmental
Prisons & Correctional Facilities
Plumbing and Piping Design
Prisons and Correctional Facilities
Product, Machine Equipment Design Pneumatic Structures, Air-Support Buildings Power Generation, Transmission, Distribution Public Safety Facilities
Radar; Sonar; Radio and Radar Telescopes
Radio Frequency Systems and Shielding's
Railroad; Rapid Transit
Recreation Facilities (*Parks, Marinas, Etc.*)
Refrigeration Plants/Systems
Rehabilitation (*Buildings; Structures; Facilities*)
Research Facilities
Resources Recovery; Recycling
Roof Infrared Imaging to Identify Water Leaks

Roofing
Safety Engineering; Accident Studies; OSHA Studies
Security Systems; Intruder and Smoke Detection
Seismic Designs and Studies
Sewage Collection, Treatment and Disposal
Soils and Geologic Studies; Foundations
Solar Energy Utilization
Solid Wastes; Incineration; Landfill
Special Environments; Clean Rooms, Etc.
Structural Design; Special Structures
Surveying; Platting; Mapping; Flood Plain Studies
Sustainable Design
Swimming Pools
Storm Water Handling and Facilities
Specifications Writing
Toxicology
Testing and Inspection Services
Traffic and Transportation Engineering
Topographic Surveying and Mapping
Towers (*Self-Supporting and Guyed Systems*)
Tunnels and Subways
Traffic Studies
Transportation
Urban renewals; Community Development
Utilities (*Gas and Steam*)
Value Analysis; Life-Cycle Costing
Warehouse and Depots
Water Resources; Hydrology; Ground Water
Water Supply; Treatment and Distribution
Wind Tunnels; Research/Testing Facilities Design
Waste Water Treatment Facility
Water Well Rehabilitation; Water Well Work
Zoning; Land Use Studies



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**ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSPO16-00005912**

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

1. **Annual Request for Qualifications**

a. FIRM (OR BRANCH OFFICE) NAME:	AZTEC Engineering Group, Inc.
b. FIRM (OR BRANCH OFFICE) STREET:	4561 E. McDowell Road
c. FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d. FIRM (OR BRANCH OFFICE) STATE:	AZ
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85008
f. YEAR ESTABLISHED:	1992
(g1). OWNERSHIP - TYPE:	Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	N/A
h. POINT OF CONTACT NAME AND TITLE:	Curt Slagell, PE
i. POINT OF CONTACT TELEPHONE NUMBER:	(602) 659-9301
j. POINT OF CONTACT E-MAIL ADDRESS:	cslagell@aztec.us
k. NAME OF FIRM (If block 1a is a branch office):	N/A



ATTACHMENT I – General Qualifications
ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
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100 North 15th Avenue, Suite 201
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2. EMPLOYEES BY DISCIPLINE

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees - Firm	d. No. of Employees - Branch
Archaeologist	P	5	
Biologist	P	5	
CADD Technician	P	4	
Civil Engineer	P	36	
Construction Manager	P	2	
Construction Inspector	P	2	
Cost Engineer / Estimator	P	2	
Environmental Scientist	P	15	
Geodetic Surveyor	P	9	
Geographic Information System Specialist	P	4	
Hydraulic Engineer	P	1	
Hydrologist	P	1	
Landscape Architect	P	4	
Project Manager	P	17	
Structural Engineer	P	10	
Technician / Analyst	P	2	
Transportation Engineer	P	27	
Water Resources	P	6	
Other	P	32	
Total		121*	



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ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
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100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

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

a. Approximate No. of Projects	b. Experience	c. Revenue Index Number (see below)
5	Acoustics, Noise Abatement	2
2	Air Pollution Control	1
10	Bridge Design: Bridges	4
2	Construction Management	2
2	Construction Surveying	1
3	Design-Build – Preparation of Request for Proposals	4
6	Ecological and Archeological Investigations	4
10	Environmental Impact Studies, Assessments or Statements	0
15	Geodetic Surveying: Ground and Airborne	3
15	Highways; Streets; Airfield Paving; Parking Lots	7
2	Historical Preservation	1
5	Irrigation; Drainage	4
15	Land Surveying	3
6	Landscape Architecture	4
5	Phase I Environmental	1
2	Rivers; Canals; Waterways; Flood Control	1
6	Solar Energy Utilization	3
4	Surveying; Platting; Mapping; Flood Plain Studies	2
2	Storm Water handling and Facilities	2
15	Specifications Writing	4
10	Traffic and Transportation Engineering	4
15	Topographic Surveying and Mapping	3
5	Traffic Studies	1
40	Transportation	7
10	Water Resources; Hydrology; Ground Water	4

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

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



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ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

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Phoenix, Arizona 85007

4. Resumes of Key Personnel Proposed for this Contract *(Complete one Section 4 for each key person.)*

a. NAME Curt Slagell, PE	b. ROLE IN THIS CONTRACT Civil Engineer, Transportation Engineer, Senior Project Manager	c. YEARS EXPERIENCE	
		2. TOTAL 46	2. WITH CURRENT FIRM 17
d. LOCATION <i>(City and State)</i> Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS, Civil Engineering		2. PROFESSIONAL TRAINING – REGISTRATIONS Professional Engineer, Arizona #21868 Professional Engineer, California #46218 Professional Engineer, Colorado #13920 Professional Engineer, Kansas #6746 Professional Engineer, Nevada #021408 Professional Structural Engineer, Utah #330672-2203 Professional Engineer, Wyoming #3418	

2. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*
 Arizona Consulting Engineers Association
 American Concrete Institute
 American Society of Highway Engineers
 Precast/Prestressed Concrete Institute

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	I-10/SR303L System Interchange (Phases I & II) ; Goodyear, AZ	2015	Phase I – 2014 Phase 2 – N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Slagell was the Project Manager for this \$213 Million project that provided the groundwork for what will become the State's largest and most unique system interchange: Five levels of fully-directional ramps connecting I-10 to the SR303L and an embedded frontage road network to serve the arterial system that surrounds it. Additional items included: three miles of I-10 widening and realignment; three miles of new SR303L freeway mainline; six miles of freeway frontage roads; one mile of arterial street; three half diamond Tis; 17 new bridges; retaining and noise walls; architectural treatments; arterial crossroad improvements; on/off-site drainage system design/modification; traffic signals; lighting; FMS components for vehicle detection, ramp metering, CCTV and DMS systems; major utility relocations; and extensive construction sequencing and maintenance of traffic. <input checked="" type="checkbox"/> Check if project performed with current firm		
2.	SR303L, Happy Valley to Lake Pleasant Parkway; Peoria, AZ	2008	2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Slagell served as the Project Manager for the final design of this challenging and unique seven-mile freeway design project. As a cornerstone in ADOT's growing freeway system, this project included: 15 bridges, miles of drainage improvements, deep cuts and tall fills, corridor earthwork balancing and precedent-setting landscaping mitigation. Additional design elements included on and off-site drainage, traffic engineering, utility relocations, and developing construction sequencing plans. AZTEC evaluated the concepts shown in the DCR and developed several alternatives for improving the design and reducing costs. The project was able to achieve a balance between environmental stewardship, complex agency rights of way acquisition, and a fast-tracked schedule to produce comprehensive construction documents in 14 months. <input checked="" type="checkbox"/> Check if project performed with current firm		
3.	On-Call Professional Engineering and Design Services; Maricopa County, AZ	2010	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Slagell was the Project Principal for the tasks assigned to AZTEC under the MCDOT Annual Services Contract for 2009-2010. The projects under this contract have included the Scoping Reports for El Mirage Road, Bell Road to Picerne, and El Mirage Road, Northern Avenue to Cactus. Other on-call projects assigned to AZTEC include Deer Valley Road 117 th Avenue to 109 th Avenue, Miller Road Bridge at Buckeye Canal and Queen Creek Road Bridge at Ocotillo Road. <input checked="" type="checkbox"/> Check if project performed with current firm		



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ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

4. Resumes of Key Personnel Proposed for this Contract (Complete one Section 4 for each key person.)

a. NAME Tony Bokich, PE	b. ROLE IN THIS CONTRACT Hydraulic Engineer, Hydrologist, Water Resources Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 30	2. WITH CURRENT FIRM 11
d. LOCATION (City and State) Phoenix, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) BS, Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer, Arizona #24971 Professional Engineer, Colorado #46815 Professional Engineer, Florida #69282 Professional Engineer, Indiana #11300656 Professional Engineer, Nevada #014291 Professional Engineer, Texas #100747 Certified Floodplain Manager, ASFPM #26352	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Arizona Floodplain Managers Association			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) Loop 303 Outfall Channel; Goodyear, AZ	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Bokich served as AZTEC's Project Manager for this final design of over one mile of a flood control channel from Van Buren Street to Yuma Road. The channel is concrete lined, with maintenance roads and ramps, landscaping and access control. It is part of the Flood Control District of Maricopa County project from Van Buren Street to Gila River. Our role was hydraulic design, final plans, specifications and cost estimate. The expected construction completion is March 2014.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION (City and State) I-10/SR303L System Interchange(Phase I); Goodyear, AZ	(2) YEAR COMPLETED	
		Professional Services On-Going	Construction (if applicable) Phase I – 2014 Phase 2 – N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The I-10/SR303L TI Phase 1 project is the first phase of construction of the I-10/SR303L System Interchange. The ultimate System Interchange is a five-level directional interchange. Mr. Bokich served as Drainage Design Team Leader for final design, and he supervised and coordinated the design team effort.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION (City and State) SR303L, Happy Valley to Lake Pleasant Parkway; Peoria, AZ	(2) YEAR COMPLETED	
		Professional Services 2008	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Bokich served as the Drainage Team Supervisor for the final design of this challenging and unique seven-mile freeway design project. This project included 15 bridges, three waterway bridges, and seven miles of drainage improvements. Additional design elements included on and off-site drainage and Conditional and Final Letters of Map Revision for FEMA. AZTEC evaluated concepts shown in the DCR and developed several alternatives for improving design and reducing costs. The project was able to achieve a balance between environmental stewardship, complex agency rights of way acquisition, and a fast-tracked schedule to produce comprehensive construction documents in 14 months.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION (City and State) Interim US89 Detour (Navajo Route 20); Page, AZ	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Bokich was Drainage Team Supervisor for the final drainage design of approximately 43 miles of Navajo Route 20 that serves as an interim US89 detour due to indefinite closure of a 23-mile stretch of US89 southwest of Page. Mr. Bokich lead the drainage design team, including one sub-consultant firm in the final design of channels, basins and culverts on this fast tracked interagency project.	<input checked="" type="checkbox"/>	Check if project performed with current firm



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ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

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4. Resumes of Key Personnel Proposed for this Contract (Complete one Section 4 for each key person.)

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
Jeff Callicott, PE	Cost Engineer/Estimator, Technician/Analyst	1. TOTAL 17	2. WITH CURRENT FIRM 9
d. LOCATION (City and State) Phoenix, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) BS, Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer, Arizona #37270 Professional Engineer, Indiana #11400561	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) N/A			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) Interim US89 Detour (Navajo Route 20); Page, AZ	(2) YEAR COMPLETED
		Professional Services 2013 Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Callicott was the Project Engineer/Roadway Lead for this final design final design project to upgrade approximately 27 miles of Navajo Route 20 from a dirt road to a paved highway. The route served as an interim US89 detour due to indefinite closure of a 23-mile stretch of US89 southwest of Page.	<input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION (City and State) Chino Road Extension; Douglas, AZ	(2) YEAR COMPLETED
		Professional Services 2013 Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Callicott is the Project Engineer for this project assigned through the On-call. This task is for the final design to widen and extend Chino Road from 5 th Street south to the proposed Port of Entry connection point, approximately 475 feet north of the International Border, including additional improvements to the north to accommodate Mexico-bound traffic.. This Local Governments project is being coordinated through ADOT for Douglas.	<input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION (City and State) Black Mountain Boulevard SR51/SR101L TI to Cave Creek Road; Phoenix, AZ	(2) YEAR COMPLETED
		Professional Services 2014 Construction (if applicable) On-Going
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Callicott was the Project Engineer/Roadway Lead/Cost Estimator for Phase 1 of this project, which is constructing Ramps and Roadway to connect Black Mountain Boulevard with SR51 at SR101L. This part of the project was work for the City of Phoenix, Arizona, administered by ADOT. The overall project includes a roundabout, three freeway bridges, ramp geometry, ramp bridge designs, traffic circulation, a pedestrian bridge and pedestrian safety.	<input checked="" type="checkbox"/> Check if project performed with current firm
4.	(1) TITLE AND LOCATION (City and State) SR303L, Happy Valley Parkway to Lake Pleasant Parkway; Peoria, AZ (ADOT)	(2) YEAR COMPLETED
		Professional Services 2008 Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Callicott served as a Project Engineer for the final design of this challenging and unique seven-mile freeway design project. This project included: 15 bridges, miles of drainage improvements, deep cuts and tall fills, corridor earthwork balancing and precedent-setting landscaping mitigation. Additional design elements included on and off-site drainage, traffic engineering, utility relocations, and developing construction sequencing plans.	<input checked="" type="checkbox"/> Check if project performed with current firm
5.	(1) TITLE AND LOCATION (City and State) I-10/SR303L System Interchange (Phase I) ; Goodyear, AZ	(2) YEAR COMPLETED
		Professional Services 2015 Construction (if applicable) Phase 1 – 2014 Phase 2 – N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Callicott served as a Roadway Engineer on the first of two phases, which laid the groundwork for what is planned to be the Valley's largest System TI, which includes a five-level configuration of fully-directional ramps, and an embedded one-way frontage road network to serve the arterial street system surrounding the TI.	<input checked="" type="checkbox"/> Check if project performed with current firm



ATTACHMENT I – General Qualifications
ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

4. Resumes of Key Personnel Proposed for this Contract (Complete one Section 4 for each key person.)

a. NAME John Gleason, PE	b. ROLE IN THIS CONTRACT Structural Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 25	2. WITH CURRENT FIRM 3
d. LOCATION (City and State) Phoenix, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) BS, Civil Engineering ME, Structural Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer, Arizona #32113 Professional Engineer, Colorado #39884 Professional Engineer, Indiana #11300590 Professional Engineer, Nevada #020618 Professional Engineer, Texas #115021 Professional Engineer, Utah #7477261-2202 Professional Engineer, New Jersey #24GE03989200 Professional Engineer, Maine #14046	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) American Society of Civil Engineers FHWA-NHI 130055 Safety Inspection of In-Service Bridges			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	I-10/SR303L System TI (Phase I & II); Goodyear, AZ	2015	Phase I – 2014 Phase 2 – N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Gleason was the Senior Bridge Engineer for this \$213 Million project that provided the groundwork for what will become the State's largest and most unique system interchange: Five levels of fully-directional ramps connecting I-10 to the SR303L and an embedded frontage road network to serve the arterial system that surrounds it. Additional items included: three miles of I-10 widening and realignment; three miles of new SR303L freeway mainline; six miles of freeway frontage roads; one mile of arterial street; three half diamond TIs; 17 new bridges; retaining and noise walls; architectural treatments; arterial crossroad improvements; on/off-site drainage system design/modification; traffic signals; lighting; FMS components for vehicle detection, ramp metering, CCTV and DMS systems; major utility relocations; and extensive construction sequencing and maintenance of traffic. He performed structure calculation checks and quality reviews of bridge drawings for the Ramp NW flyover.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	Apache Wash Trail Head; Phoenix, AZ	2013	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Gleason was the lead structure designer for this \$2.5 million trail head facility on the Sonoran Trail that included a unique ramada, a roof canopy for a proprietary waterless rest room and a maintenance building. Mr. Gleason also performed shop drawing reviews and special inspections during construction of the project.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	Chevelon Creek Bridge Rehabilitation; Winslow, AZ	2012	2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Gleason was responsible for the final design of rehabilitations to the Chevelon Creek Bridge, a single span riveted steel pony truss built in 1913. It is listed on the National Register of Historic Places. The work includes increasing allowable live load capacity from 10 tons, as currently posted, to 20 tons by replacement of the deck and floor system; and improving the safety features of the bridge while preserving the historic character of the structure. The work included a load rating of the existing bridge. Mr. Gleason also performed shop drawing reviews and responded to contractor Requests for Information.	<input type="checkbox"/>	Check if project performed with current firm
4.	Gila River Bridge Replacement; Sacaton, AZ	2013	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Gleason was the Project Engineer for the replacement of a structurally deficient bridge over the Gila River with a new 2-span precast prestressed concrete modified AASHTO Type III I-girder bridge. This innovative project employed Accelerated Bridge Construction (ABC) techniques and a Construction Manager At-Risk (CMAR) project delivery method to complete design and construction while maintaining traffic.	<input checked="" type="checkbox"/>	Check if project performed with current firm



ATTACHMENT I – General Qualifications
ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

4. Resumes of Key Personnel Proposed for this Contract (Complete one Section 4 for each key person.)

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
		1. TOTAL	2. WITH CURRENT FIRM
Justin Hoppmann	Geographic Information System Specialist, Environmental Scientist	15	13

d. LOCATION (*City and State*)
 Phoenix, Arizona

e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) BS, Forest Resources and Conservation MS, Environmental Planning	f. PROFESSIONAL TRAINING - REGISTRATIONS N/A
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g. OTHER PROFESSIONAL QUALIFICATIONS (*Organizations, Awards, etc.*)
 Designing Wildlife Corridors with ArcGIS
 40-Hour HazWOpER Training Course (29 CFR 1910.120)
 Federal Mine Safety & Health Act of 1977 New Miner Training - 24 hours
 AHERA Certified Building Inspector (#F7267)

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Avenida Rio Salado / Broadway Road; Phoenix, AZ	2010	On-Going
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Mr. Hoppmann was the lead author for an Environmental Assessment and NEPA documentation. The project includes the development and evaluation of corridors and subsequent specific alternatives to provide an improved traffic capacity on sections of Broadway Road, a major thoroughfare. Detailed socioeconomic surveys were developed and conducted for this project to identify protected minority and low-income populations both living and working in the project vicinity. This information was used in the development of alternatives and mitigation measure that minimized impacts to these populations. Additionally, extensive historic property investigations, cultural resource evaluations, biological resource evaluation and water quality analyses and permitting (including Section 404 permitting, wetland delineations and floodplain permitting) were conducted.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	Wild Rose Parkway Feasibility Study; Surprise, AZ	2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Mr. Hoppmann compiled an Environmental Overview (EO) which was used to assist in the development and evaluation of alignment alternatives for a new roadway. This process led to the selection of a proposed corridor alignment that minimized impacts to resources. The EO described the socioeconomic, physical, and natural environment of the study area to provide a baseline overview of environmental issues. Issues discussed in the EO included land use, zoning, demographic composition, biological resources, water resources, air and noise, hazardous materials, and cultural resources.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	H2O Water Inc.; Queen Creek, AZ	2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Mr. Hoppmann completed a Phase I environmental site assessment for 8 parcels. The EA was prepared for the Town of Queen Creek, and completed in accordance with the standards described in 40 CFR Part 312, Standards and Practices for All Appropriate Inquiries and ASTM Standard 1527-05, Standard Practice for environmental site assessments: Phase I environmental site assessment process.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	SR77, Tangerine Rd to Pinal County; Oro Valley, AZ	2013	On-Going
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Mr. Hoppmann completed a non-programmatic Categorical Exclusion for a roadway widening project north of Oro Valley, AZ. Associated technical studies included qualitative and quantitative air quality analyses, evaluation of prehistoric and historic cultural resources, sampling for asbestos and lead-based paint, evaluation of two biological species, and assessment of impacts to Section 4(f) and Section 6(f) resources. Also assisted in the design of two wildlife crossings for this project, one underpass and a 150-foot wide overpass.	<input checked="" type="checkbox"/>	Check if project performed with current firm



ATTACHMENT I – General Qualifications
ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

4. Resumes of Key Personnel Proposed for this Contract (Complete one Section 4 for each key person.)

a. NAME Peggy Kmak	b. ROLE IN THIS CONTRACT Construction Manager	c. YEARS EXPERIENCE	
		1. TOTAL 15	2. WITH CURRENT FIRM 2

d. LOCATION (*City and State*)
Phoenix, Arizona

e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) AA, Mechanical Drafting	f. PROFESSIONAL TRAINING - REGISTRATIONS N/A
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g. OTHER PROFESSIONAL QUALIFICATIONS (*Organizations, Awards, etc.*)
 Certificate of Construction Management (Phoenix College)
 Arizona ATSSA Traffic Control Supervisor
 AutoCAD 2007
 ADOT LCP Tracker
 ADOT SATS
 ADOT Force Accounting
 ADOT Pen-Based Systems
 ADOT Supplemental Agreements

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	West Chandler/Santan Freeway Wastewater Force Main Design; Chandler, AZ	2012	2014
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Ms. Kmak was the Construction Manager for this project to reroute the City of Chandler's wastewater outfall from the Lone Butte Wastewater Reclamation Facility to the Ocotillo Wastewater Reclamation Facility. The project required upgrading the City's 10 million gallons per day sewer pump station in order to pump wastewater to the new outfall location. The force main had an outfall into a 66-inch sanitary sewer that required a new access controlled site with power service, odor control, flow monitoring, and SCADA and telemetry equipment. Peggy's responsibilities as Construction Manager included supervising a construction inspector; participating in progress meetings with general contractor and owner; performing daily project observations and contract administration; reviewing traffic control set-ups per the approved plan and preparing reports; managing the shop drawing review process; reviewing testing results and payment applications; processing changes and claims, including negotiations, settlements and documentation; and resolving contractor questions, providing drawing clarification and utility coordination.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	McQueen Road Improvements (Chandler Heights Rd. to Ocotillo Rd.); Chandler, AZ	2015	2015
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE As a sub consultant to Tristar, Ms. Kmak was the lead inspector for this federally funded project to widen approximately one mile of McQueen Road between Ocotillo Road and Chandler Heights in the City of Chandler, Maricopa County, Arizona. Project improvements included raised median, curb and gutter, sidewalk, bike lanes, turn lanes, street lighting, traffic signals, signing, striping, storm drain, utility relocations, landscape and irrigation. Public utility extensions were constructed to stub water, sewer and reclaimed water stubs to undeveloped parcels along the project corridor. Peggy's responsibilities as lead inspector included supervising up to three construction inspectors; participating in progress meetings with general contractor and owner; performing daily project observations and contract administration; performing field employee interviews regarding Davis Bacon Wages; reviewing traffic control set-ups per the approved plan and preparing reports; managing the shop drawing review process; reviewing testing results and payment applications; processing changes and claims, including negotiations, settlements and documentation; and resolving contractor questions, providing drawing clarification and utility coordination.	<input type="checkbox"/>	Check if project performed with current firm
3.	67 th Avenue Improvements from Olive Avenue to AC/DC Canal; Glendale, AZ	2009	2009
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE As Construction Manager, Ms. Kmak Supervised three construction observers during the reconstruction of 3.5 miles of roadway and storm drain improvements. This CMAR project was a joint effort between the Cities of Glendale and Peoria. Overall scope included roadway improvements; 24" to 60" storm drain pipe installation; addition of dedicated right- and left-turn lanes; traffic signal upgrades (poles, foundations, boxes); infrastructure for fiber optic conduit (to be installed at a later date); an ITS traffic signal interconnect; under-grounding of overhead power lines; new curb, gutter, and sidewalk, landscaping, street lighting and SWPPP inspection and certification. Ms. Kmak performed daily observations and prepared reports. She coordinated progress meetings with general contractor and owner. Managed shop drawing review process and assisted the Resident Engineer with Contract Administration. Verified construction quantities, reviewed testing results and payment applications. Processed payment applications, changes and claims, including negotiations, settlements and documentation.	<input checked="" type="checkbox"/>	Check if project performed with current firm



ATTACHMENT I – General Qualifications
ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

4. Resumes of Key Personnel Proposed for this Contract (Complete one Section 4 for each key person.)

a. NAME Steve Lohide, RLA, LEED AP, CLARB	b. ROLE IN THIS CONTRACT Landscape Architect	c. YEARS EXPERIENCE	
		1. TOTAL 32	2. WITH CURRENT FIRM 4
d. LOCATION (City and State) Phoenix, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) BS, Landscape Architecture		f. PROFESSIONAL TRAINING - REGISTRATIONS Landscape Architect, Arizona #27437 Landscape Architect, Colorado #0001082 Landscape Architect, Nevada #928 Landscape Architect, Indiana #21300022 Landscape Architect, Montana #210 Landscape Architect, New Mexico #374 Landscape Architect, Texas #2787 Landscape Architect, Utah #5815941-5301 Landscape Architect, Virginia #001660 CLARB #17900 LEED AP #88015	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) American Society of Landscape Architects			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) El Mirage Recreational Facility; El Mirage, AZ	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Lohide was the Project Manager/Landscape Architect for a 32,000 square foot YMCA recreational facility located in El Mirage. The landscape design incorporated native plant material that provided rich textures and colors at the facilities entries. The use of native material also reduced that amount of water needed to sustain the plant material and reduced maintenance costs of the landscape.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION (City and State) Western Canal Trail; Gilbert, AZ	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) On-Going
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Lohide was the Project Landscape Architect for this 1.5 mile segment of multi-use path from the Union Pacific Railroad to Cooper Road passing through McQueen Park. This project explored various path alignments, configurations, surface treatments, pedestrian amenities, signage, and lighting. The final construction documents will include a 10' wide concrete path, signage, lighting, and pedestrian amenities which included picnic tables, ramada structures, and bike racks.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION (City and State) Avenida Rio Salado / Broadway Road; Phoenix, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) On-Going
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Lohide was the Project Landscape Architect responsible for the landscape and irrigation design and artist coordination for this four-mile segment of road located on the south side of Phoenix. This project stretched through a mix of land uses ranging from a gravel pit and salvage yards to residential and commercial developments. The landscape design needed to pull this mix of land uses together as one community. This was accomplished through the selection of a major street tree along with a secondary tree and core group of shrub and accent material. It was also supported with the inclusion of art elements at key locations throughout the project. Maintenance and water use was also a concern in the selection of plant material for the project.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION (City and State) P83 Streetscape Improvements Design Concept Report; Peoria, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Landscape Architect included 83 rd Avenue from Skunk Creek Wash to Bell Road and Paradise Lane from 83 rd Avenue to 75 th Avenue. The goal of the project was to develop a comprehensive program that transforms this area into a pedestrian environment. Elements of the project included developing pedestrian amenities such as enhanced sidewalks, shade, and increased pedestrian spaces; roadway options that include lane dieting and potential roundabouts; overall signage program for pedestrians and vehicular traffic; and a lighting study for the District.	<input checked="" type="checkbox"/>	Check if project performed with current firm



ATTACHMENT I – General Qualifications
ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

4. Resumes of Key Personnel Proposed for this Contract (Complete one Section 4 for each key person.)

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
		1. TOTAL	2. WITH CURRENT FIRM
Deil Lundin, RPA	Archaeologist	23	3

d. LOCATION (City and State)
Phoenix, Arizona

e. EDUCATION (DEGREE AND SPECIALIZATION) BA, Anthropology MA, Anthropology, Concentration on Physical Anthropology	f. PROFESSIONAL TRAINING - REGISTRATIONS Registered Professional Archeologist
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g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Society for American Archaeology Arizona Archaeological Council Arizona Archaeological Council President-Elect, 2016 NEPA Compliance and Cultural Resources (NPI)	Section 106: Agreement Documents (NPI) Traditional Cultural Properties Workshop (BLM) NAGPRA Basics Training (NPS) Section 106 (FHWA) Section 106 (SWCA), ARPA (BLM)
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H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	SR86, Sells to Fresno; Sells, AZ	2015	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As principal investigator, Ms. Lundin developed and implemented treatment plan for phased data recovery in advance of federally funded road construction on the Tohono O'odham Nation. Tasks include preparing budget and scope of work (completed), drafting consultation letters (in progress), obtaining federal, tribal, and state permits (completed), coordinating and conducting fieldwork (completed), supervising field crew (completed), managing subcontractors and vendors (in progress), and preparing report of findings and consultation letters (in progress). Treatment plan was developed in accordance with the memorandum of agreement to mitigate adverse effects to a historic property that could not be avoided by an ADOT/FHWA-sponsored traffic improvements along SR 86. The subject site is a prehistoric limited activity locus in the Eastern Papagueria occupied intermittently between AD 540 and 1350. Mitigation includes a combination of phased data recovery and archaeological monitoring.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	I-19, Ajo Way TI; Tucson, AZ	On-Going	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As principal investigator, Ms. Lundin developed and implemented treatment plan to assist ADOT/FHWA with Section 106 compliance for geotechnical and overall project clearance (in progress). Tasks include preparing budget and scope of work (completed), drafting consultation letters (in progress), obtaining state permits (completed), coordinating and conducting fieldwork (in progress), supervising field crew (in progress), managing subcontractors and vendors (in progress), and preparing report of findings (in progress). Treatment plan was developed as stipulated in the memorandum of agreement to mitigate adverse effects to four historic properties that cannot be avoided by an ADOT/FHWA-sponsored traffic interchange project along I-19. The area of potential effects overlaps portions of three prehistoric sites and a historic irrigation feature. The sites are in the southern Tucson Basin roughly ¼ to ½ mile east of the Santa Cruz River. Mitigation includes a combination of phased data recovery, archaeological monitoring, and archival research.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	Payson Ranger District Administrative Site Sale and Facilities; Tonto National Forest, AZ	On-Going	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As principal investigator, Ms. Lundin developed and implemented treatment plan in support of an environmental assessment for sale of a 250-acre parcel administered by Tonto National Forest. Tasks include preparing budget and scope of work (completed), coordinating with TNF archaeologists (in progress), assisting with tribal consultation (in progress), obtaining federal permit (completed), coordinating and conducting fieldwork (completed), supervising field crew (completed), managing subcontractors and vendors (in progress), and preparing report of findings (in progress). AZTEC undertook phased data recovery excavations at ten sites determined eligible for listing in the National Register or for which eligibility testing was required. The sites represent occupation and/or use of the area by the Central Arizona and Apache cultural traditions. Five of the sites exhibit surface architecture.	<input checked="" type="checkbox"/>	Check if project performed with current firm



ATTACHMENT I – General Qualifications
ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

4. Resumes of Key Personnel Proposed for this Contract (Complete one Section 4 for each key person.)

a. NAME		b. ROLE IN THIS CONTRACT		c. YEARS EXPERIENCE	
Dan Moeller		Construction Inspector		1. TOTAL 33	2. WITH CURRENT FIRM 4
d. LOCATION (City and State) Phoenix, Arizona					
e. EDUCATION (DEGREE AND SPECIALIZATION) AA, Civil Engineering			f. PROFESSIONAL TRAINING - REGISTRATIONS Engineer-in-Training, Arizona #05677		
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Arizona Consulting Engineers Association American Concrete Institute American Society of Highway Engineers Precast/Prestressed Concrete Institute					

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	SR303L, Happy Valley Parkway to Lake Pleasant Parkway; Peoria, AZ	2008	2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Moeller served as the Construction Manager for the final design of this challenging and unique seven-mile freeway design project. As a cornerstone in ADOT's growing freeway system, this project included: 15 bridges, miles of drainage improvements, deep cuts and tall fills, corridor earthwork balancing and precedent-setting landscaping mitigation. Additional design elements included on and off-site drainage, traffic engineering, utility relocations, and developing construction sequencing plans. Construction began in January 2009. AZTEC evaluated the concepts shown in the DCR and developed several alternatives for improving the design and reducing costs. The project was able to achieve a balance between environmental stewardship, complex agency rights of way acquisition, and a fast-tracked schedule to produce comprehensive construction documents in 14 months.		
2.	Mount Signal Solar PV Plant; Imperial County, CA	2013	2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Moeller was the Deputy Project Manager for the construction of a 200 MW solar energy facility consisting of 3.1 M PV solar panels, operations maintenance/storage building, control buildings, inverter stations, elevated water storage tanks, electrical substation, and 4.5 mile 230 kV overhead transmission gen-tie line. The solar facility is constructed on 1,945 acres at a cost of \$757,000,000. Mr. Moeller's duties included coordinating project meetings, schedules, budget, action items, tracking logs, documentation, correspondence, reporting and logistics. Interface with and maintain effective working relationship with all members of management team, contractors, suppliers and other third parties.		
3.	Salt River Project (SRP) Santan Expansion Pipeline Project; Coolidge, AZ	2002-2003	2003-2004
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Moeller served as Construction Manager and Project Engineer for design, development and construction of 36 miles of 24" natural gas supply pipeline, block valve stations and meter site for SRP Santan Expansion Project. As Construction Manager, Mr. Moeller prepared daily logs, monitored construction activities for compliance, facilitated weekly meetings with client and contractor, reviewed change orders and monthly contractor payment requests for approval, scheduled material deliveries with railroad. Extensive coordination was a major factor during the construction phase to keep the project on schedule and within budget. All design and construction conflicts incurred were immediately addressed and resolved resulting in completion of the project on schedule and within budget.		
4.	Gila River Bridge Replacement; Sacaton, AZ	2013	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Moeller was the Project Engineer/Inspector for the replacement of a structurally deficient bridge over the Gila River with a new 2-span precast prestressed concrete modified AASHTO Type III I-girder bridge. This innovative project employed Accelerated Bridge Construction (ABC) techniques and a Construction Manager At-Risk (CMAR) project delivery method to complete design and construction while maintaining traffic.		



ATTACHMENT I – General Qualifications
ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

4. Resumes of Key Personnel Proposed for this Contract (Complete one Section 4 for each key person.)

a. NAME Mike Myers	b. ROLE IN THIS CONTRACT Biologist	c. YEARS EXPERIENCE	
		1. TOTAL 17	2. WITH CURRENT FIRM 12

d. LOCATION (City and State)
Phoenix, Arizona

e. EDUCATION (DEGREE AND SPECIALIZATION)
BS, Wildlife Conservation Biology

f. PROFESSIONAL TRAINING - REGISTRATIONS
N/A

g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)
 Permitted by the US Fish and Wildlife Service to conduct presence/absence surveys for the black-footed ferret, cactus ferruginous pygmy-owl, Chiricahua leopard frog, Mexican spotted owl, Southwestern willow flycatcher, and Yuma clapper rail (Permit TE064431-0).
 Completed various species-specific survey training workshops for species such as Chiricahua leopard frog, Yellow-billed Cuckoo, desert tortoise, Western burrowing owl, flat-tailed horned lizard, and bats in general.
 Rapid Stream Riparian Assessment Protocol Training Workshop conducted by the Arizona Riparian Council and Wild Utah near Camp Verde, Arizona (April 2009).
 Wetland Delineator Training, Wetland Training Institute, Sacramento, California (April 2006).

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) ADOT Environmental On-Call Services; Statewide, AZ	(2) YEAR COMPLETED
		Professional Services On-Going Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Myers has been the lead biologist for three consecutive on-call contracts since 2003. This Contract results in approximately 25 task orders per year. Duties include completing habitat assessments and species-specific protocol surveys, preparing survey reports and Biological Assessments/Evaluations, agency coordination, and assisting ADOT/FHWA during Endangered Species Act Section 7 consultation for various statewide transportation construction and maintenance projects.	<input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION (City and State) Interim US89 Detour (Navajo Route 20); Page, AZ	(2) YEAR COMPLETED
		Professional Services 2013 Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Myers was the lead consultant biologist responsible for rapidly completing the biological clearance process. He lead and participated in field surveys, authored much of the biological evaluation, coordinated with the Navajo Nation and US Fish and Wildlife Service, developed and implemented environmental awareness training for the construction contractor, and managed the environmental construction monitoring crews. AZTEC was responsible for completing the necessary environmental clearances to pave and/or upgrade approximately 27 miles of Navajo Route 20 served as an interim US89 detour due to indefinite closure of a 23-mile stretch of US89 southwest of Page.	<input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION (City and State) ADOT BLM Herbicide Use Environmental Assessment; Statewide, AZ	(2) YEAR COMPLETED
		Professional Services 2013 Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Myers was lead biologist for a NEPA Environmental Assessment of ADOT herbicide use to control invasive plant species on roadway easements through BLM-managed lands. Coordinated with ADOT and BLM, identified ADOT roadways occurring on BLM lands using GIS, and oversaw preparation of the Biological Evaluation that addressed all threatened, endangered, proposed, candidate, and BLM sensitive species statewide.	<input checked="" type="checkbox"/> Check if project performed with current firm
4.	(1) TITLE AND LOCATION (City and State) Tonto National Forest Payson Ranger District Administrative Site Sale and Facilities Environmental Assessment; Payson, AZ	(2) YEAR COMPLETED
		Professional Services 2013 Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As a third-party NEPA contractor for the Rim County Education Alliance Special Legal Entity, Mr. Myers assisted the Tonto National Forest Payson Ranger District in the preparation of an EA and associated technical reports for the direct sale of 253 acres of the Payson Ranger District office and grounds, construction of new administrative facilities on the remaining 43 acres of the parcel, and the construction of a fire management and helicopter base on 31 acres of USFS lands. Mr. Myers was AZTEC's lead biologist that oversaw field surveys, as well as preparation of a biological evaluation and technical sections of the EA. He also coordinated with the Tonto National Forest and participated in GIS data collection and analysis for the project.	<input checked="" type="checkbox"/> Check if project performed with current firm



ATTACHMENT I – General Qualifications
ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

4. Resumes of Key Personnel Proposed for this Contract (Complete one Section 4 for each key person.)

a. NAME Robert Rappleyea	b. ROLE IN THIS CONTRACT CADD Technician	c. YEARS EXPERIENCE	
		1. TOTAL 15	2. WITH CURRENT FIRM 7
d. LOCATION (City and State) Phoenix, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) AS, Drafting and CADD Technology		f. PROFESSIONAL TRAINING - REGISTRATIONS N/A	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) N/A			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) Kyrene Road Extension; Chandler, AZ	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) On-Going
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This project involved the design of approximately ¼ mile of roadway along the Kyrene Road alignment from Allison Road to the Willis Road Alignment. Services include: topographical survey, utility locating (SUE), utility mapping, geotechnical, roadway design, drainage design, traffic signing and marking design, traffic signal design, future utility crossing design, sewer line design and post design services. The total cost was approximately \$1 million. Mr. Rappleyea was responsible for both the plan production as well as the design of the roadway and sewer line.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION (City and State) West Chandler/Santan Freeway Wastewater Force Main Design; Chandler, AZ	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The goal of this project was to reroute the City of Chandler's wastewater outfall from the Lone Butte Wastewater Reclamation Facility to the Ocotillo Wastewater Reclamation Facility. The project required upgrading the City's existing 10 million gallons per day sewer pump station in order to pump wastewater to the new outfall location. Conveyance of the wastewater will be via a new 28-inch force main that will be aligned along the south side of the 202L between Kyrene Road and Price Road within the Arizona Department of Transportation right-of-way. The force main outfalls into an existing 66-inch sanitary sewer which will require a new access controlled site with power service, odor control, flow monitoring, and SCADA and telemetry equipment. Mr. Rappleyea was responsible for the plan production.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION (City and State) Annual Engineering/Consulting Services Contract (2004-2014); Phoenix, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Rappleyea was the Lead CAD Designer for the right-of-way and design services for the I-17 to North Valley Parkway section of Sonoran Desert Drive. Responsibilities included estimating and documenting the full right-of-way acquisition area required from State Land. Design evaluation included roadway modeling, hydraulic evaluation of Skunk Creek and maintenance access requirements. In addition, full legal descriptions and exhibits for the affected State Land Parcels were prepared. Mr. Rappleyea is providing CAD support for the second task assigned under this contract which includes providing services to complete the 64th Street connection from SR101L to Mayo Boulevard. Responsibilities for this task include development of an interim embankment stockpile plan and updating the previously shelved 100% design plans based on the interim condition and current geotechnical investigations.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION (City and State) Avenida Rio Salado / Broadway Road – Phoenix, AZ	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable) On-Going
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Rappleyea was responsible for CADD Design associated with this City of Phoenix project. AZTEC is the prime consultant responsible for the preparation of the Enhanced Project Assessment and Environmental Documentation for the Avenida Rio Salado/Broadway Road project located in Phoenix. The project included the development and evaluation of corridors and subsequent specific alternatives to provide a new high capacity major arterial that was located south of the Salt River and extended from the proposed future SR202L/SR 801 interchange to 7 th Street.	<input checked="" type="checkbox"/>	Check if project performed with current firm



ATTACHMENT I – General Qualifications
ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
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100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

4. Resumes of Key Personnel Proposed for this Contract (Complete one Section 4 for each key person.)

a. NAME		b. ROLE IN THIS CONTRACT		c. YEARS EXPERIENCE	
Al Reece, RLS		Geodetic Surveyor		1. TOTAL 42	2. WITH CURRENT FIRM 17
d. LOCATION (City and State) Phoenix, Arizona					
e. EDUCATION (DEGREE AND SPECIALIZATION) 3.5 years college (no degree) Major: Mathematics			f. PROFESSIONAL TRAINING - REGISTRATIONS Registered Land Surveyor, Arizona #25396 Professional Land Surveyor, Nevada #14635 Registered Land Surveyor, Texas #5218		
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Arizona Professional Land Surveyors					

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) SR202L HOV Lanes Design Build, SR101L Broadway Road; Mesa, AZ	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Reece was the Survey Manager for the fast-track design of this \$110M project that will add over 20-miles of HOV/GPL lanes on this section of the SR202L. Project features included bridge widening, retaining walls, and drainage improvements, maintenance of traffic, signing, lighting, landscaping, noise walls, mainline lighting, FMS, utility relocations, and survey.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION (City and State) I-10/SR303L System Interchange; Goodyear, AZ	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable) Phase 1 – 2014 Phase 2 – N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Reece was the Survey Manager for this \$213 Million project that provided the groundwork for what will become the State's largest and most unique system interchange: Five levels of fully-directional ramps connecting I-10 to the SR303L and an embedded frontage road network to serve the arterial system that surrounds it. Additional items included: three miles of I-10 widening and realignment; two miles of new SR303L freeway mainline; six miles of freeway frontage roads; one mile of arterial street; three half diamond TIs; 17 new bridges; retaining and noise walls; architectural treatments; arterial crossroad improvements; on/off-site drainage system design/modification; traffic signals; lighting; FMS components for vehicle detection, ramp metering, CCTV and DMS systems; major utility relocations; and extensive construction sequencing and maintenance of traffic.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION (City and State) Interim US89 Detour (Navajo Route 20); Page, AZ	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Reece was the Survey Manager for this final design project to upgrade approximately 27 miles of Navajo Route 20 from a dirt road to a paved highway. The route that served as an interim US89 detour due to indefinite closure of a 23-mile stretch of US89 southwest of Page. Survey responsibilities consisted of mobilizing four survey crews to the site to meet the schedule. We provided survey controls, topographic surveying and layout of right of way lines and environmental avoidance areas. AZTEC surveyed the boundary monuments and provided a right of way map and legal description for the final right of way corridor. Mr. Reece served as the Survey Manager for the project.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION (City and State) El Mirage Recreational Facility; El Mirage, AZ	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE AZTEC performed site civil, landscape architecture and site survey services for a new recreational facility in El Mirage, Arizona. The design of this 32,000 square foot facility with outdoor swimming pool included grading/drainage plans, water/sewer plans and landscape/irrigation plans. Mr. Reece served as the Survey Manager.	<input checked="" type="checkbox"/>	Check if project performed with current firm



ATTACHMENT I – General Qualifications
ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

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

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

a. TITLE AND LOCATION <i>(City and State)</i> I-10/SR303L SYSTEM INTERCHANGE (PHASES I & II); GOODYEAR, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION <i>(If applicable)</i> Phase I – 2014 Phase 2 – N/A

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Arizona Department of Transportation	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$14.2M (Phase I Design) \$6.5M (Phase II Design – Estimated)	e. TOTAL COST OF PROJECT \$134M (Phase I Construction & Design) \$76.5M (Phase II Construction & Design – Estimated)
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Phase I

This \$134 Million project, located within the City of Goodyear in Maricopa County, Arizona, provided the groundwork for what will become the State's largest and most unique system interchange. It involved the construction of ramps between I-10 and SR303L, the reconstruction of SR303L between Thomas Road and Van Buren Street, and the widening of I-10. Specifically, AZTEC engineers designed five-levels of fully-directional ramps connecting I-10 to the SR303L and an embedded frontage road network to serve the arterial system that surrounds it. Additional items included: three miles of I-10 widening and realignment; two miles of new SR303L freeway mainline; six miles of freeway frontage roads; one mile of arterial street; three half diamond TIs; 12 new bridges; modification of an existing bridge; retaining and noise walls; architectural treatments; arterial crossroad improvements; on/off-site drainage system design/modification; traffic signals; lighting; FMS components for vehicle detection, ramp metering, CCTV and DMS systems; major utility relocations; and extensive construction sequencing and maintenance of traffic.



In addition to engineering services, AZTEC's environmental staff updated an EA and completed two superseding clearances, performed cultural and biological surveys, prepared a PISA, monitored traffic noise and prepared a noise report, addressed impacts to a Section 4(f) property, prepared a HAER documentation of the Roosevelt Irrigation District Canal, and conducted research on the historic Waddell Ranch and distributed PowerPoint presentations about historic farming in the West Valley to local historical societies.

Phase I is currently under construction. AZTEC is providing post design services during construction of the project.

Phase II

AZTEC was selected to provide engineering design services for Phase II of the I-10/SR303L TI. This project constructed two-lane directional ramps ES, NE, WS and NW between ultimate I-10 and SR303L gores and widened I-10 to accommodate single-lane on-ramp auxiliary lane run-outs. South of I-10, the ramps match ultimate SR303L profile extending to the Van Buren Street Overpass (OP) and have a temporary connection to Cotton Lane south of Van Buren Street. SR303L two-lane one-way frontage roads were extended from the I-10 Westbound Frontage Road south, connecting with Cotton Lane south of Van Buren Street. Van Buren Street was reconstructed to accommodate a half diamond TI to the south and the SR303L Van Buren Street OP was constructed to accommodate the ultimate SR303L roadway section (4+1 plus directional ramp auxiliary lanes). Van Buren Street was reconstructed within the access control limits of the ultimate freeway.





ATTACHMENT I – General Qualifications

**ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912**

**STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007**

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

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

a. TITLE AND LOCATION <i>(City and State)</i> US93 HOOVER DAM BYPASS; ARIZONA AND NEVADA	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If applicable)</i> 2010

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Federal Highway Administration	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$569,000 (Design Fee)	e. TOTAL COST OF PROJECT \$240B (Construction Cost)
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

In a joint effort by FHWA, NPS, ADOT and NDOT, existing US93 was relocated from its alignment on top of Hoover Dam to a new alignment approximately 1,000 feet downstream from the dam. AZTEC established horizontal control on both sides of the Colorado River with a static GPS network. AZTEC performed precise leveling for vertical control in terrain with 600 feet of vertical relief. Vertical tolerances were especially critical because the contractor was required to achieve vertical accuracies of 0.005 feet for the new Salt River Canyon Bridge. AZTEC set aerial targets for one-foot contour aerial mapping over the four-mile corridor. Supplemental topographic surveys were performed to locate the numerous high-voltage power towers and wire line elevations. The vertical canyon walls were surveyed using 3D laser scanning. AZTEC used a professional rock climber to set the laser scanning control. AZTEC's Utility Locating Group designated all existing utilities and the AZTEC Survey Team surveyed and mapped the utilities. AZTEC surveyed the section corner monuments and prepared the Right of Way plans for both The Arizona and Nevada sides of the Colorado River, along with exhibits and legal descriptions for new utility easements.





ATTACHMENT I – General Qualifications

**ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912**

**STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

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

a. TITLE AND LOCATION <i>(City and State)</i> EL MIRAGE RECREATIONAL FACILITY; EL MIRAGE, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i> 2014

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER City of El Mirage	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$75,000 (Design Fee)	e. TOTAL COST OF PROJECT \$1.2M (Construction Cost)
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

AZTEC was selected to provide site civil, landscape architecture and site survey services for a new YMCA recreational facility in El Mirage, Arizona. The design of this 32,000 square foot facility with outdoor swimming pool includes grading/drainage plans, water/sewer plans and landscape/irrigation plans. The project was designed to allow for future expansion on the site and to connect and blend with the adjacent City park.





ATTACHMENT I – General Qualifications

**ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912**

**STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007**

a. TITLE AND LOCATION <i>(City and State)</i> INTERIM US89 DETOUR (NAVAJO ROUTE 20); PAGE, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i> 2013

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Arizona Department of Transportation	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$988,000 (Design Fee)	e. TOTAL COST OF PROJECT \$35M (Construction Cost)
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

AZTEC served as the prime consultant selected by the Arizona Department of Transportation (ADOT) to provide emergency and extremely fast-track final engineering design and environmental compliance documents for the Interim Detour of US89 after it suffered a catastrophic landslide that closed the route on February 20, 2013. The total cost of construction was estimated at nearly \$40 million and was delivered by a Construction Manager at Risk.



The purpose of the project was to restore essential traffic and mobility to the area by providing a more direct, temporary detour around the landslide. Once constructed, the new interim detour would shorten the existing detour by more than 50 miles. The detour will function for 2-3 years while a permanent repair is determined for US89.

The US89 Interim Detour (US89T) is located along the existing Navajo Route 20 (N20) within the Navajo Nation. The project extends approximately 45 miles between existing US89 at The Gap and SR98 in the City of Page.

The scope of the project included designing a highway quality detour with one lane of asphaltic concrete pavement in each direction, targeting posted speeds of 55 mph, minimizing earthwork in the rolling and mountainous terrain, staying within the existing meandering roadway footprint, and avoiding numerous culturally, biologically and environmentally sensitive areas, some of which are located only feet from the roadway. More importantly, the design had to be delivered within seven weeks to allow for construction to be completed during the summer of 2013, in time for the upcoming school year.



AZTEC was responsible for all aspects of the design and environmental compliance and supporting ADOT with coordination between FHWA, the many departments of the Navajo Nation, the BIA and many other State and Federal Agencies. In addition, AZTEC provided comprehensive quality control, geometric roadway design, earthwork modeling, signing design, pavement marking, drainage engineering, construction cost estimating, specifications and construction document packaging for this essential project.



Intensive coordination and rapid deployment were essential to completing the supplemental National Environmental Policy Act (NEPA) environmental assessment in one month in parallel with the fast-track design efforts. Evaluated resources included biological resources, cultural resources, hazardous materials, and waters of the US. AZTEC's biologists actively searched for raptor and migratory bird nests, evaluated habitat suitability for federally listed and Navajo Nation special status plant and animal species, and prepared a biological evaluation. The only active nests observed were that of non-endangered raptors and non-threatened migratory birds. A 300 foot corridor centered on the N20 alignment had been previously surveyed for cultural resources; slivers of land beyond the corridor required new survey. The previously identified cultural sites were relocated, remapped, and reevaluated; two new sites also were identified. Intensive coordination with the N20 design team resulted in avoiding all cultural sites. Nine jurisdictional water drainages were identified, and the project was authorized under a non-notifying Section 404 Nationwide Permit 14.



ATTACHMENT I – General Qualifications

**ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912**

**STATE PROCUREMENT OFFICE
Department of Administration
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Phoenix, Arizona 85007**

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

a. TITLE AND LOCATION <i>(City and State)</i> WEST CHANDLER/SANTAN FREEWAY WASTEWATER FORCE MAIN DESIGN; CHANDLER, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i> 2014

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER City of Chandler	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$1.3M (Design Fee)	e. TOTAL COST OF PROJECT \$8.1M (Design & Construction Cost)
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

AZTEC was responsible for the rerouting of the City of Chandler's wastewater outfall from the Lone Butte Wastewater Reclamation Facility to the Ocotillo Wastewater Reclamation Facility. The project required upgrading the City's existing 10 million gallons per day sewer pump station in order to pump wastewater to the new outfall location. Conveyance of the wastewater will be via a new 28-inch force main that was designed to be aligned along the south side of the 202L between Kyrene Road and Price Road within the Arizona Department of Transportation right-of-way. The force main was designed to outfall into an existing 66-inch sanitary sewer which required design of a new access controlled site with power service, odor control, flow monitoring, and SCADA and telemetry equipment.

AZTEC provided construction management services for the City of Chandler.





ATTACHMENT I – General Qualifications
ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
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Phoenix, Arizona 85007

6. ADDITIONAL INFORMATION

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



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

a.	Percentage of Total Work Attributable to State, Federal and Municipal Government Work:	95%
b.	Percentage of Total Work Attributable to Non-Government Work:	5%

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

Signature: Curt Slagell

Date: December 21, 2015 _____

Name: Curt Slagell, PE

Title: Senior Vice President