

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

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

1. REVISED ADSPO13-00003465: Annual Request for Qualifications

a.	FIRM (OR BRANCH OFFICE) NAME:	AZTEC Engineering Group, Inc.
b.	FIRM (OR BRANCH OFFICE) STREET:	4561 East McDowell Road
c.	FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d.	FIRM (OR BRANCH OFFICE) STATE:	Arizona
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

**RFQ# ADSP014-00003465, Annual Request for Qualifications and Experience
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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	4	
Biologist	P	6	
CADD Technician	P	8	
Civil Engineer	P	12	
Construction Manager	P	2	
Construction Inspector	P	1	
Cost Engineer / Estimator	P	6	
Environmental Scientist	P	8	
Geodetic Surveyor	P	1	
Geographic Information System Specialist	P	6	
Hydraulic Engineer	P	1	
Hydrologist	P	1	
Landscape Architect	P	3	
Mechanical Engineer	P	1	
Project Manager	P	15	
Structural Engineer	P	5	
Technician / Analyst	P	18	
Transportation Engineer	P	2	
Water Resources Engineer	P	4	
Other	P	15	
Total		119	

**RFQ# ADSP014-00003465, Annual Request for Qualifications and Experience
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3. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST YEAR

a. Approximate No. of Projects	b. Experience	c. Revenue Index Number (see below)
5	Acoustics, Noise Abatement	1
	Air Pollution Control	
	Area Master Planning	
20	Bridge Design	4
	Cemeteries (Planning & Relocation)	
	Conservation and Resource Management	
2	Construction Management	4
2	Construction Surveying	2
5	Cost Estimating; Cost Engineering & Analysis; Parametric Costing; Forecasting	3
3	Design-Build – Preparation of Request for Proposals	4
	Digital Elevation and Terrain Model Development	
40	Ecological & Archaeological Investigations	5
	Energy Conservation; New Energy Sources	
3	Environmental Impact Studies, Assessments or Statements	4
	Geodetic Surveying: Ground and Airborne	
50	Highways; Streets; Airfield Paving; Parking Lots	6
3	Historical Preservation	2
70	Infrastructure	7
	Intelligent Transportation Designs	
20	Irrigation; Drainage	4
75	Land Surveying	5
5	Landscape Architecture	3
	LEED Accredited A/E	

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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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)
	Lighting (Exteriors; Streets; Memorials; Athletic Fields, Etc.)	
	Outdoor Recreation	
2	Phase I Environmental	1
1	Railroad; Rapid Transit	2
1	Recreation Facilities (Parks, Marinas, Etc.)	1
2	Rivers; Canals; Waterways; Flood Control	2
	Seismic Designs & Studies	
3	Solar Energy Utilization	3
3	Specifications Writing	1
2	Storm Water Handling & Facilities	2
8	Structural Design; Special Structures	4
25	Surveying; Plotting; Mapping; Flood Plain Studies	4
	Sustainable Design	
25	Topographic Surveying and Mapping	4
25	Traffic & Transportation Engineering	4
20	Traffic Studies	4
25	Transportation	6
	Urban Renewals; Community Development	
	Utilities (Gas and Steam)	
	Value Analysis; Life-Cycle Costing	
2	Water Resources; Hydrology; Ground Water	2
3	Water Supply; Treatment and Distribution	3

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 |

**RFQ# ADSP014-00003465, Annual Request for Qualifications and Experience
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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section 4 for each key person.)

a. NAME Curt Slagell	b. ROLE IN THIS CONTRACT Civil Engineer, Transportation Engineer, Project Manager	c. YEARS OF EXPERIENCE	
		1. TOTAL 44	2. WITH CURRENT FIRM 15
d. FIRM NAME AND LOCATION (City and State) AZTEC Engineering, 4561 East McDowell Road, Phoenix, AZ 85008			
16. EDUCATION (DEGREE AND SPECIALIZATION) BS Civil Engineering, 1969		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer, Arizona #21868 Professional Engineer, Nevada #021408 Professional Engineer, California #46218 Professional Structural Engineer, Utah #330672-2203 Professional Engineer, Colorado #13920	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Arizona Consulting Engineers Association American Concrete Institute American Society of Highway Engineers Precast/Prestressed Concrete Institute			

H. PROJECTS

	(1) TITLE AND LOCATION (City and State) I-10/SR303L System Interchange; Goodyear, AZ	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable)
1)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Slagell was the Project Manager for this \$130 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; 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. Final design was completed in 2010, but post-design services and construction are ongoing.		
	(1) TITLE AND LOCATION (City and State) SR303L, Happy Valley to Lake Pleasant Parkway; Peoria, AZ	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2012
2)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 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.		

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

a. NAME Tony Bokich	b. ROLE IN THIS CONTRACT Hydraulic Engineer, Hydrologist, Water Resources Engineer	c. YEARS OF EXPERIENCE	
		1. TOTAL 28	2. WITH CURRENT FIRM 9
d. FIRM NAME AND LOCATION (City and State) AZTEC Engineering, 4561 East McDowell Road, Phoenix, AZ 85008			
16. EDUCATION (DEGREE AND SPECIALIZATION) BS Civil Engineering University of Texas at Austin, 1985		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer, Arizona #24971 Professional Engineer, Texas #100747 Professional Engineer, Florida #69282 Civil Engineer, Nevada #014291 Professional Engineer, Colorado #46815 Certified Floodplain Manager, ASFPM #26352	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Arizona Floodplain Managers Association (AZFMA)			

H. PROJECTS

	(1) TITLE AND LOCATION (City and State) Loop 303 Outfall Channel; Goodyear, AZ	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable)
1)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 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.		
	(1) TITLE AND LOCATION (City and State) I-10/SR303L System Interchange; Goodyear, AZ	(2) YEAR COMPLETED	
2)		Professional Services 2011	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 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. Final design was completed in 2010, but post-design services and construction are ongoing.		
3)	(1) TITLE AND LOCATION (City and State) SR303L, Happy Valley to Lake Pleasant Parkway; Peoria, AZ	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable) 2012
3)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 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.		
	(1) TITLE AND LOCATION (City and State) On-Call Statewide Roadway Engineering Group Services (Navajo Route 20 (US89T) MP 0.00 to MP 43.56); Coconino County, AZ	(2) YEAR COMPLETED	
4)		Professional Services 2013	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm AZTEC was responsible for completing the final design to pave and/or upgrade approximately 43 miles of Navajo Route 20 to serve as an interim US89 detour due to indefinite closure of a 23-mile stretch of US89 southwest of Page. Tony was the Drainage Team Supervisor responsible for rapidly completing the final drainage design. He 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.		

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

a. NAME Jeff Callicott	b. ROLE IN THIS CONTRACT Cost Engineer/Estimator, Technician/Analyst	c. YEARS OF EXPERIENCE	
		1. TOTAL 15	2. WITH CURRENT FIRM 7
d. FIRM NAME AND LOCATION (City and State) AZTEC Engineering, 4561 East McDowell Road, Phoenix, AZ 85008			
16. EDUCATION (DEGREE AND SPECIALIZATION) BS Civil Engineering, Structural Emphasis Northern Arizona University, 1997		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer, Arizona #37270	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

H. PROJECTS

1)	(1) TITLE AND LOCATION (City and State) On-Call Statewide Roadway Engineering Group Services (Navajo Route 20 (US89T) MP 0.00 to MP 43.56); Coconino County, AZ	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Emergency detour in Northern Arizona, on the Navajo Nation between Gap, AZ and Page, AZ, around the damaged portion of US89 in Northern Arizona. The project was 27.5 miles long and included roadway rehabilitation, drainage, utility coordination, and a seven week design schedule. Role: Project Engineer, Roadway Lead		
2)	(1) TITLE AND LOCATION (City and State) Chino Road Extension; Douglas, AZ	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Local roadway work for the City of Douglas, Arizona, administered by ADOT. The project includes roadway extension, widening, two drainage structures, and modification to an existing drainage crossing. Project is on-going. Approximate cost: \$2 million Role: Project Engineer, Roadway Lead, Cost Estimator		
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	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Ramps and Roadway to connect Black Mountain Boulevard with SR51 at SR101L. Part of the project is work for the City of Phoenix, Arizona, administered by ADOT. The project includes a roundabout, a pedestrian bridge, and three freeway bridges. Construction and design is on-going. Approximate cost: \$25 million Role: Project Engineer, Roadway Lead, Cost Estimator		

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

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

a. NAME Javier Damia Levy	b. ROLE IN THIS CONTRACT Mechanical Engineer	c. YEARS OF EXPERIENCE	
		1. TOTAL 18	2. WITH CURRENT FIRM 3
d. FIRM NAME AND LOCATION (City and State) AZTEC Engineering, 4561 East McDowell Road, Phoenix, AZ 85008			
16. EDUCATION (DEGREE AND SPECIALIZATION) MSc Machine Design Cranfield Institute of Technology MSc Mechanical Engineering Universidad Politécnica de Valencia (UPV)		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Industrial Engineer – Registered in the European Union (COIICV 3653)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Design of PV Power Plants. Master in Renewable Energy. Conference. Arizona State University. 2011 and 2012 Numerical simulation of PV Plants. Energy & Environment. Conference in “Ecofira” 2007. Valencia ADES Trackers: The gain of the Second Axis. Publication. SOLARNEWS. July 2006 Design of two-stroke large bore Diesel Engines: Use of residual fuels. Conference Master in Energy Efficiency. Universidad Castilla-LM. (2005) ADES Large two axis tracking systems. Publication. ENERGÉTICA XXI. October 2005 Operation of Diesel-Electric Power Plants. Conference. Training course for operators. Nassau, 2003, La Paz, México, 2004 Design of Large Diesel-Electric Power Plants. Conference. Industrial Exhibition. La Habana. 2002 Manufacturing Two Stroke-Large Bore Diesel Engines. Conference. CIMAC Congress. Athens, 1997 Tridimensional Grid Generation for Internal Combustion Diesel Engine Geometries. Publication National Symposium in Numerical Methods - Spain, 1993			

H. PROJECTS

	(1) TITLE AND LOCATION (City and State) Mount Signal Solar PV Plant; Calxico, (CA)	(2) YEAR COMPLETED	
		Professional Services 2012 and 2013	Construction (if applicable)
1)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Engineering Manager for the project design, construction and testing of a 265 MWdc Photovoltaic Power Plant (largest in the world with solar trackers). Construction is on-going. Project construction budget = \$700M. <u>Specific Duties:</u> Conceptual and basic design of the plant for bidding purposes. Technical discussion with lender's engineers during project financial closing. Technical assistance during EPC selection process. Technical review of construction engineering documentation by EPC contractor. Technical support during testing and performance evaluation phases.		

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

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

a. NAME John Gleason	b. ROLE IN THIS CONTRACT Structural Engineer	c. YEARS OF EXPERIENCE	
		1. TOTAL 22	2. WITH CURRENT FIRM 1
d. FIRM NAME AND LOCATION (City and State) AZTEC Engineering, 4561 East McDowell Road, Phoenix, AZ 85008			
16. EDUCATION (DEGREE AND SPECIALIZATION) ME Structural Engineering Cooper Union for the Advancement of Science and Art, 1996		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer, Arizona #32113 Professional Engineer, Nevada #020618 Professional Engineer, Utah #7477261-2202 Professional Engineer, Texas #115021 Professional Engineer, Colorado #39884	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) American Society of Civil Engineers FHWA-NHI 130055 Safety Inspection of In-Service Bridges			

H. PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1)	I-10/SR303L System TI; Goodyear, AZ	2011	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Gleason was the Senior Bridge Engineer for this \$130 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; 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. He performed structure calculation checks and quality reviews of bridge drawings for the Ramp NW flyover. Final design was completed in 2010, but post-design services and construction are ongoing.		
2)	Apache Wash Trail Head; Phoenix, AZ	2013	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 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.		
3)	Chevelon Creek Bridge Rehabilitation; Winslow, AZ	2013	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm 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.		

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

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

a. NAME Justin Hoppmann	b. ROLE IN THIS CONTRACT Geographic Information System Specialist, Environmental Scientist	c. YEARS OF EXPERIENCE	
		1. TOTAL 13	2. WITH CURRENT FIRM 11
d. FIRM NAME AND LOCATION (City and State) AZTEC Engineering, 4561 East McDowell Road, Phoenix, AZ 85008			
16. EDUCATION (DEGREE AND SPECIALIZATION) MS Environmental Planning (Landscape Ecological Planning) Arizona State University, 2003		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, 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. PROJECTS

	(1) TITLE AND LOCATION (City and State) Avenida Rio Salado / Broadway Road; Phoenix, AZ	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
1)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 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. Construction is on-going.		
	(1) TITLE AND LOCATION (City and State) Wild Rose Parkway Feasibility Study; Surprise, AZ	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
2)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 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.		
	(1) TITLE AND LOCATION (City and State) H2O Water Inc.; Queen Creek, AZ	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
3)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 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.		

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

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	SR 77, Tangerine Rd to Pinal County; Oro Valley, AZ	Professional Services 2013	Construction <i>(if applicable)</i>
4)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	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. Construction is on-going.		

**RFQ# ADSP014-00003465, Annual Request for Qualifications and Experience
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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 OF EXPERIENCE	
		1. TOTAL 13	2. WITH CURRENT FIRM 1
d. FIRM NAME AND LOCATION (City and State) AZTEC Engineering, 4561 East McDowell Road, Phoenix, AZ 85008			
16. EDUCATION (DEGREE AND SPECIALIZATION) AA Mechanical Drafting Bakersfield College		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Concrete Field Testing Technician #00101826	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, 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. PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Professional Services	Construction (if applicable)
West Chandler/Santan Freeway Wastewater Force Main Design; Chandler, AZ	2012	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm 1) The goal of this project is to reroute the City of Chandler's wastewater outfall from the Lone Butte Wastewater Reclamation Facility to the Ocotillo Wastewater Reclamation Facility. The project will require 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 will outfall 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. Peggy's responsibilities as Construction Manager include 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. Construction is on-going.		

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

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 OF EXPERIENCE	
Steve Lohide, RLA, LEED AP	Landscape Architect	1. TOTAL	2. WITH CURRENT FIRM
		30	2
d. FIRM NAME AND LOCATION (City and State)			
AZTEC Engineering, 4561 East McDowell Road, Phoenix, AZ 85008			
16. EDUCATION (DEGREE AND SPECIALIZATION)		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
BS Landscape Architecture Purdue University, 1983		Landscape Architect, Arizona #27437 Landscape Architect, Indiana #21300022 Landscape Architect, Utah #5815941-5301 Landscape Architect, New Mexico #374 Landscape Architect, Texas #2787 Landscape Architect, Virginia #001660 Landscape Architect, Montana #210 CLARB #17900 LEED AP #88015	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
American Society of Landscape Architects			

H. PROJECTS

1)	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	El Mirage Recreational Facility – El Mirage, Arizona	Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Project Manager/Landscape Architect for a 32,000 square foot YMCA recreational facility located in El Mirage, Arizona. 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. Construction completion is estimated for January 2014.		
2)	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Western Canal Trail - Gilbert, Arizona	Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	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.		
3)	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Avenida Rio Salado / Broadway Road – Phoenix, AZ	Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Project Landscape Architect responsible for the landscape and irrigation design and artist coordination for this 4-mile segment of road located on the south side of Phoenix, Arizona. 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. Several meetings were held with City staff to review and discuss the various plant options for the project. Construction is on-going.		

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

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

a. NAME Deil Lundin	b. ROLE IN THIS CONTRACT Archaeologist	c. YEARS OF EXPERIENCE	
		1. TOTAL 21	2. WITH CURRENT FIRM 1
d. FIRM NAME AND LOCATION (City and State) AZTEC Engineering, 4561 East McDowell Road, Phoenix, AZ 85008			
16. EDUCATION (DEGREE AND SPECIALIZATION) MA Anthropology (Physical Anthropology) Louisiana State University, 2000		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Professional Archeologist	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Register of Professional Archaeologists, Society for American Archaeology, Arizona Archaeological Council, American Association of Physical Anthropologists 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)			

H. PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1)	SR86, Sells to Fresnal; Sells, Arizona		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <u>Description:</u> Assist ADOT/FHWA with Section 106 compliance involving phased data recovery investigations for a federally funded road construction project on the Tohono O'odham Nation. The subject site, a historic property eligible for listing in the National Register under Criterion D, is a multi-component (prehistoric and protohistoric) artifact scatter measuring approximately one mile in length located in the Eastern Papagueria along a segment of Sells Wash. A total of 1,400m of linear trenching will be undertaken. Budget is \$262,784. Project is ongoing. <u>Role:</u> Principal investigator; prepare budget and scope of work (completed), draft consultation letters (in progress), develop treatment plan (completed), implement treatment plan (not completed), obtain federal, tribal, and state permits (in progress), coordinate and conduct fieldwork (not completed), supervise field crew (not completed), manage subcontractors and vendors (in progress), and prepare report of findings (not completed).		
2)	I-19, Ajo Way TI; Tucson, Arizona		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <u>Description:</u> In compliance with Section 106, develop and implement a treatment plan, 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 will include a combination of archaeological monitoring, phased data recovery, and archival research. Phase I investigations will involve 500m of linear trenching. Budget is \$416,058. Project is ongoing. <u>Role:</u> Principal investigator; assist ADOT/FHWA with geotechnical and overall project clearance (in progress), prepare budget and scope of work (completed), draft consultation letters (in progress), develop treatment plan (completed) implement treatment plan (not completed), obtain state permits (not completed), coordinate and conduct fieldwork (not completed), supervise field crew (not completed), manage subcontractors and vendors (in progress), and prepare report of findings (not completed).		
3)	Payson Ranger District Administrative Site Sale and Facilities; Tonto National Forest, Arizona		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <u>Description:</u> In support of an environmental assessment for sale of a 250-acre parcel administered by Tonto National Forest, undertake phased data recovery excavations at ten sites determined eligible for listing in the National Register or for which eligibility testing is 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; Budget is \$269,104. Project is ongoing. <u>Role:</u> Principal investigator; prepare budget and scope of work (completed), coordinate with TNF archaeologists (in progress), assist with tribal consultation (in progress), develop treatment plan (completed), implement treatment plan for work on federal land (not completed), obtain federal permit (in progress), coordinate and conduct fieldwork (not completed), supervise field crew (not completed), manage subcontractors and vendors (in progress), and prepare report of findings (not completed).		

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

4)	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
	US60/Grand Avenue; Phoenix, Arizona	Professional Services	Construction (<i>if applicable</i>)
		2012	
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm			
<p><u>Description:</u> At the request of ADOT/FHWA, in compliance with state regulatory requirements, manage archaeological monitoring and data recovery within a prehistoric site and canal area for a federally funded road improvement and beautification project along US 60/Grand Avenue. Work involved data recovery and monitoring within Las Colinas, a Hohokam prehistoric village site, and an area projected to contain up to 12 canal segments. Budget is \$370,326. Project is ongoing.</p> <p><u>Role:</u> Principal investigator; manage and coordinate fieldwork (completed), manage subcontractor (in progress), coordinate with project team (completed), draft consultation letters (in progress), prepare report (in progress).</p>			
5)	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
	Chino Road Extension; Douglas, Arizona	Professional Services	Construction (<i>if applicable</i>)
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm			
<p><u>Description:</u> Assist ADOT and FHWA with Section 106 compliance for a federal and city-funded road construction project in southeastern Arizona. Perform Class III cultural resources survey of over 50 acres, including recordation and assessment of six archaeological sites, all of which are historic. Budget is \$13,765. Project is ongoing.</p> <p><u>Role:</u> Principal investigator; manage and execute fieldwork (completed), record and assess National Register eligibility of sites (completed), provide management recommendations regarding project effect (completed), prepare technical report (completed), and draft consultation letters (in progress).</p>			

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

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

a. NAME Dan Moeller	b. ROLE IN THIS CONTRACT Construction Inspector	c. YEARS OF EXPERIENCE	
		1. TOTAL 31	2. WITH CURRENT FIRM 2
d. FIRM NAME AND LOCATION (City and State) AZTEC Engineering, 4561 East McDowell Road, Phoenix, AZ 85008			
16. EDUCATION (DEGREE AND SPECIALIZATION) AAS Civil Engineering Iowa Western Community College		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Engineer-in-Training, Arizona #5877	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Arizona Consulting Engineers Association American Concrete Institute American Society of Highway Engineers Precast/Prestressed Concrete Institute			

H. PROJECTS

	(1) TITLE AND LOCATION (City and State) Mount Signal Solar PV Plant; Imperial County, CA	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
1)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 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. Construction Inspector 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. Construction is on-going.		

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

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 OF EXPERIENCE	
		1. TOTAL 17	2. WITH CURRENT FIRM 10
d. FIRM NAME AND LOCATION (City and State) AZTEC Engineering, 4561 East McDowell Road, Phoenix, AZ 85008			
16. EDUCATION (DEGREE AND SPECIALIZATION) BS Wildlife Conservation Biology Arizona State University, 1998		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) N/A	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, 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. PROJECTS

1)	(1) TITLE AND LOCATION (City and State) ADOT Environmental On-Call Services; Statewide, Arizona	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Myers is lead biologist for three consecutive on-call contracts since 2003 (still on-going) that resulted 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) On-Call Statewide Roadway Engineering Group Services (Navajo Route 20 (US89T) MP 0.00 to MP 43.56); Coconino County, AZ	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE AZTEC was responsible for completing the necessary environmental clearances to pave and/or upgrade approximately 43 miles of Navajo Route 20 to serve as an interim US89 detour due to indefinite closure of a 23-mile stretch of US89 southwest of Page. 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.	<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, Arizona	(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, Arizona	(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, AZTEC 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	

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

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 OF EXPERIENCE	
		1. TOTAL 13	2. WITH CURRENT FIRM 5
d. FIRM NAME AND LOCATION (City and State) AZTEC Engineering, 4561 East McDowell Road, Phoenix, AZ 85008			
16. EDUCATION (DEGREE AND SPECIALIZATION) AAS Drafting and CADD Technology High-Tech Institute, 2002		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) N/A	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

H. PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1)	Kyrene Road Extension; Chandler, Arizona	2013	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm This project involves 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 is responsible for both the plan production as well as the design of the roadway and sewerline. Construction is on-going.		
2)	West Chandler/Santan Freeway Wastewater Force Main Design; Chandler, AZ	2012	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm The goal of this project is 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 will outfall 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. Construction is on-going.		

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

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

a. NAME Al Reece	b. ROLE IN THIS CONTRACT Geodetic Surveyor	c. YEARS OF EXPERIENCE	
		1. TOTAL 40	2. WITH CURRENT FIRM 15
d. FIRM NAME AND LOCATION (City and State) AZTEC Engineering, 4561 East McDowell Road, Phoenix, AZ 85008			
16. EDUCATION (DEGREE AND SPECIALIZATION) Mathematics Arizona State University		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Land Surveyor, Arizona #25396 Registered Land Surveyor, Texas #5218 Professional Land Surveyor, Nevada #14635	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Arizona Professional Land Surveyors			

H. PROJECTS

	(1) TITLE AND LOCATION (City and State) I-10/SR303L System Interchange; Goodyear, AZ	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable)
1)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm This \$130 Million project 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; 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. Survey responsibilities included providing project survey control consisting of an extensive GPS network, and detailed topographic surveys of existing roadways, structures, drainage facilities and utilities. AZTEC surveyed the geotechnical borings and prepared topographic mapping of the existing conditions. Mr. Reece served as the Survey Manager for the project. Final design was completed in 2010, but post-design services are ongoing. Construction is on-going.		
	(1) TITLE AND LOCATION (City and State) On-Call Statewide Roadway Engineering Group Services (Navajo Route 20 (US89T) MP 0.00 to MP 43.56); Coconino County, AZ	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) 2013
2)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm AZTEC Engineering (AZTEC) served as the prime consultant selected by the Arizona Department of Transportation (ADOT) to provide preliminary and final engineering and environmental compliance support for the Emergency Relief (ER) US89 Interim Detour (US89T) project based on our unique blend of professional disciplines including surveyors, engineers, and environmental scientists. Because a natural disaster on US89 closed the direct route between the City of Flagstaff and the City of Page, Federal Highway Administration (FHWA) and ADOT agreed that a detour route was required immediately to provide a quicker and more efficient route than was available using existing highways. The unimproved Navajo Route 20 (N20) extending approximately 43 miles between US89 at The Gap and State Route 98 in the City of Page provided the best detour. As the prime consultant, AZTEC was responsible for the overall project management and coordination among FHWA, ADOT, Navajo Department of Transportation (NDOT), Bureau of Indian Affairs (BIA), and other organizations within the Navajo Nation (NN). In addition, AZTEC showcased how quick team work and 24-hour service were able to produce both roadway plans for 27 miles and an environmental clearance in less than two months. AZTEC coordinated extensively with FHWA, ADOT, NDOT, BIA, and NN to ensure that US89T project provided both a detour route during the repair of US89 and future use of N20 for years to come for the NN. 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.		

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

	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
	El Mirage Recreational Facility; El Mirage, AZ	Professional Services 2013	Construction (<i>if applicable</i>)
3)	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm AZTEC prepared 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 includes grading/drainage plans, water/sewer plans and landscape/irrigation plans. Mr. Reece served as the Survey Manager. The final design was completed on 7/17/13 with construction to be complete by January 2014.		
	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
	West Chandler/Santan Freeway Wastewater Force Main Design; Chandler, AZ	Professional Services 2012	Construction (<i>if applicable</i>)
4)	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm The goal of this project is to reroute the City of Chandler's wastewater outfall from the Lone Butte Wastewater Reclamation Facility to the Ocotillo Wastewater Reclamation Facility. The project will require 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 will outfall 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. Survey responsibilities included topographic surveys and the establishment of existing ADOT right of way lines. AZTEC provided layout of the force main for field review and assisted the Construction Manager with as-built surveys and quality control reviews during construction. Mr. Reece served as the Survey Manager for the project, and the construction is on-going.		
	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
	South Mountain Area Drainage Master Study; Phoenix, AZ	Professional Services 2013	Construction (<i>if applicable</i>)
5)	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm AZTEC provided aerial mapping control for a Maricopa County Floodplain Study covering approximately 25 square miles in a rugged section of the South Mountain area, and Mr. Reece served as the Survey Manager. The survey required a comprehensive GPS network with sufficient accuracy to control numerous flight lines at varying elevations. Cross-sections were taken within the project using conventional ground surveying techniques to check the mapping for conformance with FEMA accuracy guidelines. Additional responsibilities included post-processing airborne GPS data and providing a comprehensive report detailing the results of the survey.		

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

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

(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 2011	CONSTRUCTION <i>(if applicable)</i>
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER Arizona Department Of Transportation	d. DOLLAR AMOUNT OF PROJECT \$14.2 M (Phase I Design) \$6.5 M (Phase II Design Cost – Estimated)	e. TOTAL COST OF PROJECT \$134 M (Phase I Construction & Design) \$76.5 M (Phase II Construction & Design - Estimated)	

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 recently selected to provide engineering design services for Phase II of the I-10/SR303L TI. This project will construct two-lane directional ramps ES, NE, WS and NW between ultimate I-10 and SR303L gores and widen I-10 to accommodate single-lane on-ramp auxiliary lane run-outs. South of I-10, the ramps will 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 will be extended from the I-10 Westbound Frontage Road south, connecting with Cotton Lane south of Van Buren Street. Van Buren Street will be reconstructed to accommodate a half diamond TI to the south and the SR303L Van Buren Street OP will be constructed to accommodate the ultimate SR303L roadway section (4+1 plus directional ramp auxiliary lanes). Van Buren Street will be reconstructed within the access control limits of the ultimate freeway.



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

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

(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 2011	CONSTRUCTION <i>(if applicable)</i> 2010
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER Federal Highways Administration	d. DOLLAR AMOUNT OF PROJECT \$569,000 (Design Fee)	e. TOTAL COST OF PROJECT \$240,000,000 (Construction Cost)	

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.



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

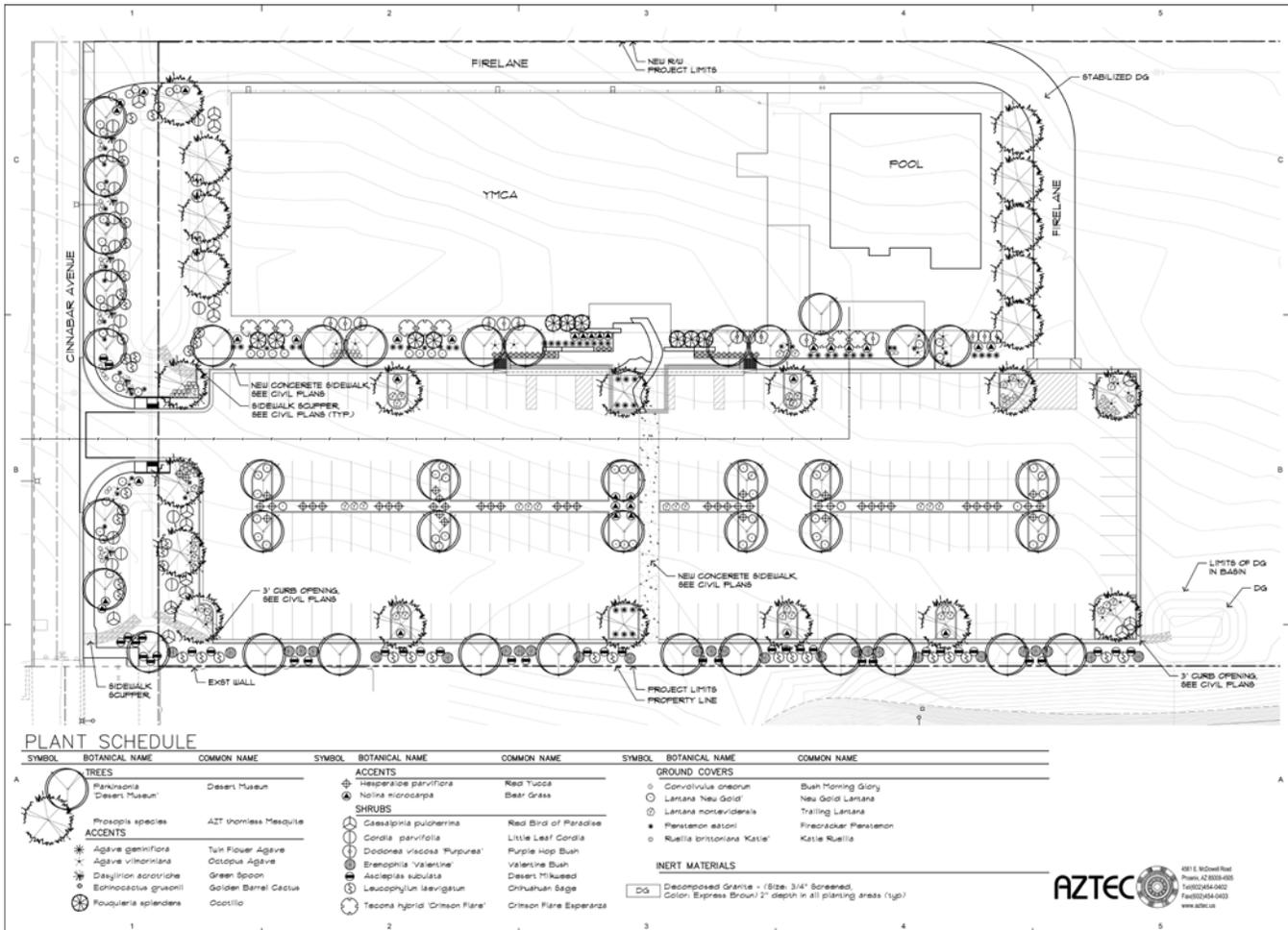
5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

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

a. TITLE AND LOCATION (City and State) El Mirage Recreational Facility; El Mirage, AZ		b. YEAR COMPLETED	
		PROFESSIONAL SERVICES 2013	CONSTRUCTION (if applicable)
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER City of El Mirage	d. DOLLAR AMOUNT OF PROJECT \$75,000 (Design Fee)	e. TOTAL COST OF PROJECT \$1.2 million (Construction Cost)	

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. The construction completion date is estimated to be January 2014.



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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>		b. YEAR COMPLETED	
On-Call Statewide Roadway Engineering Group Services (Navajo Route 20 (US89T) MP 0.00 to MP 43.56); Coconino County, AZ		PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(if applicable)</i> 2013
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER Arizona Department Of Transportation	d. DOLLAR AMOUNT OF PROJECT \$988,000 (Design Cost)	e. TOTAL COST OF PROJECT \$35 Million (Construction and Design)	

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.



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

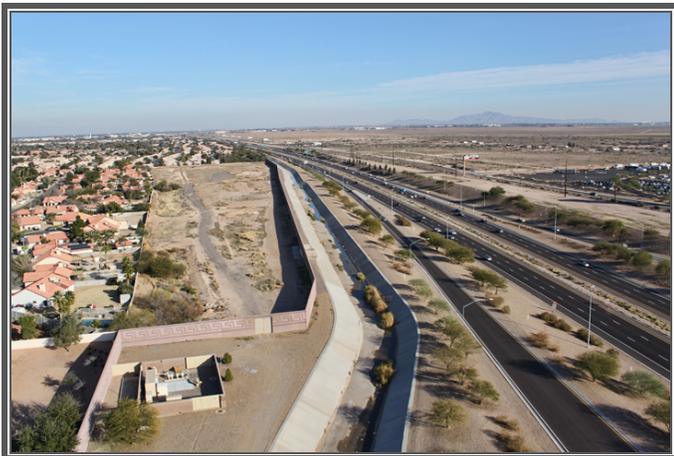
(Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION <i>(City and State)</i>		b. YEAR COMPLETED	
West Chandler/Santan Freeway Wastewater Force Main Design; Chandler, AZ		PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(if applicable)</i>
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER City of Chandler	d. DOLLAR AMOUNT OF PROJECT \$1.3 million (Design)	e. TOTAL COST OF PROJECT \$8.1 million (Design and Construction)	

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.

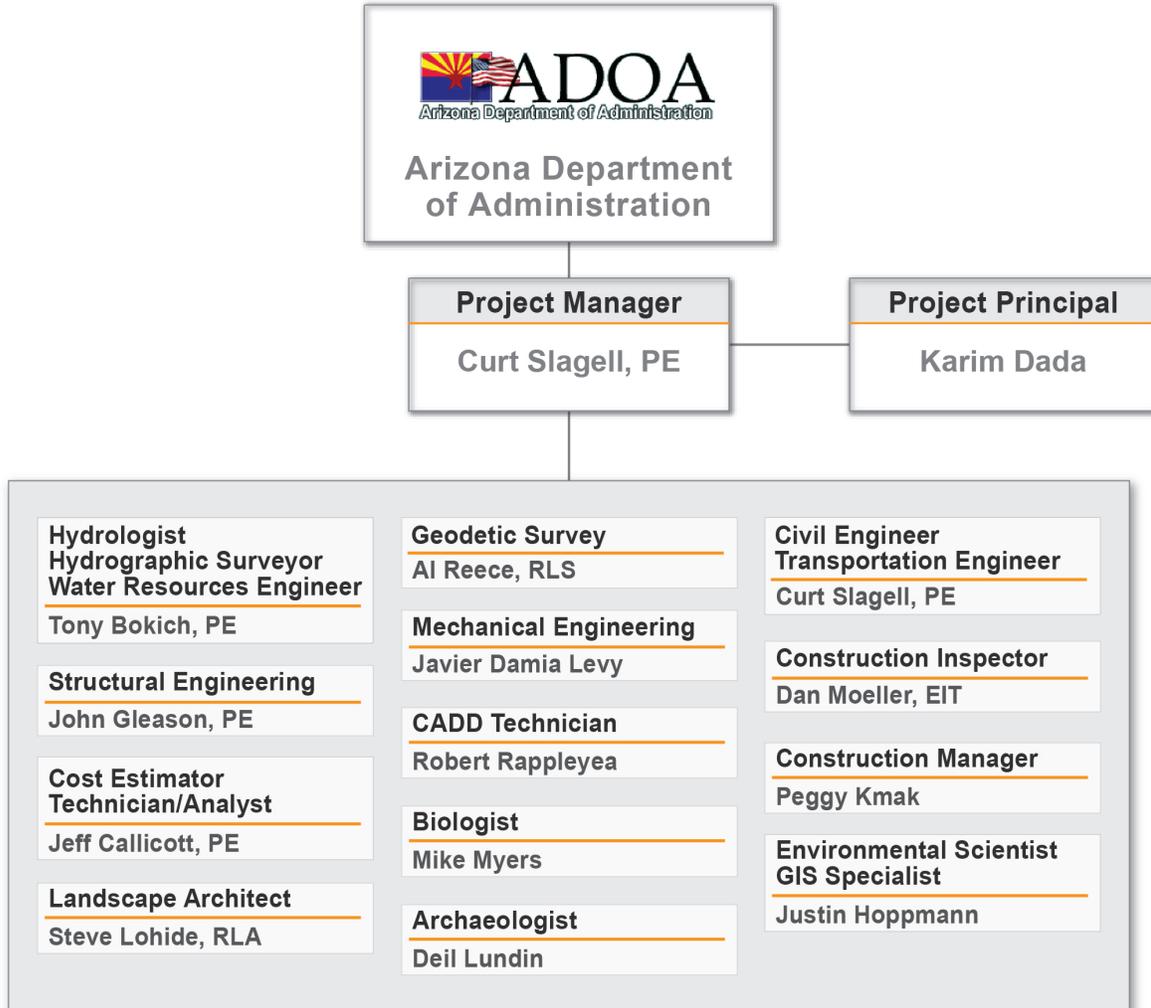
This project is currently under construction with AZTEC providing construction management services for the City of Chandler.



6. ADDITIONAL INFORMATION

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

Figure 1. Organizational Chart



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: 12/12/2013

Name: Curt Slagell, PE

Title: Senior Vice President