



ATTACHMENT I – General Qualifications  
**ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:  
ADSP015-00004729**

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

(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:	<b>RITOCH-POWELL &amp; Associates</b>
b.	FIRM (OR BRANCH OFFICE) STREET:	5727 N. 7 <sup>th</sup> Street, Suite 120
c.	FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d.	FIRM (OR BRANCH OFFICE) STATE:	Arizona
e.	FIRM (OR BRANCH OFFICE) ZIP CODE:	85014
f.	YEAR ESTABLISHED:	1978
(g1).	OWNERSHIP - TYPE:	C-Corporation
(g2)	OWNERSHIP - SMALL BUSINESS STATUS:	SBA
h.	POINT OF CONTACT NAME AND TITLE:	Karl Obergh, PE President / Chief Executive Officer
i.	POINT OF CONTACT TELEPHONE NUMBER:	602.263.1177
j.	POINT OF CONTACT E-MAIL ADDRESS:	kobergh@ritochpowell.com
k.	NAME OF FIRM (If block 1a is a branch office):	N/A



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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
Architect	S	1	
CADD Technician	P	9	
CADD Technician	S	5	
Civil Engineer	P S	7 5	
Construction Manager	P	1	
Construction Inspector	P S	2 2	
Cost Engineer/Estimator	P S	1 1	
Geodetic Surveyor	P S	2 2	
Geographic Information System	P	1	
Hydraulic Engineer	P	1	
Hydrologist	S	2	
Project Manager	P S	5 1	
Sanitary Engineer	P	1	
Structural Engineer	P	1	
Technician / Analyst	P S	9 11	
Transportation Engineer	P S	2 3	
Water Resources Engineer	P S	3 3	
Other	P S	3 7	
<b>Total</b>		<b>91</b>	



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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)
<b>5</b>	Area Master Planning	<b>4</b>
<b>6</b>	Construction Management	<b>6</b>
<b>10</b>	Construction Surveying	<b>4</b>
<b>3</b>	Design-Build – Preparation of Request for Proposal	<b>5</b>
<b>11</b>	Highways; Streets; Airfield Paving; Parking Lots	<b>6</b>
<b>2</b>	Historical Preservation	<b>2</b>
<b>14</b>	Housing (Residential; Multi-Family; Apartments; Condominiums)	<b>5</b>
<b>12</b>	Infrastructure	<b>5</b>
<b>4</b>	Testing and Inspection Services	<b>5</b>
<b>4</b>	Garage, Vehicle Maintenance Facilities, Parking	<b>3</b>
<b>2</b>	Structural Design, Special Structures	<b>2</b>
<b>4</b>	Recreation Facilities (Parks, Marinas, Etc.)	<b>4</b>
<b>4</b>	Surveying; Platting; Mapping; Flood Plain Studies	<b>4</b>
<b>6</b>	Traffic and Transportation Engineering	<b>4</b>
<b>24</b>	Topographic Surveying and Mapping	<b>5</b>
<b>5</b>	Water Resources; Hydrology; Ground Water	<b>6</b>

**PROFESSIONAL SERVICES REVENUE INDEX NUMBER**

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



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

a. NAME <b>Karl Obergh, PE</b>	b. ROLE IN THIS CONTRACT <b>Project Principal, Quality Assurance/Quality Control</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>24</b>	2. WITH CURRENT FIRM <b>10</b>
d. LOCATION (City and State) <b>Phoenix, AZ</b>			
e. EDUCATION (DEGREE AND SPECIALIZATION) <b>BS, Civil Engineering</b>		f. PROFESSIONAL TRAINING - REGISTRATIONS <b>AZ PE #34008 – Civil Eng.; NM, CO, UT – Civil Eng.</b>	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) <b>Awards:</b> 2012 ASCE Region 8 Outstanding Civil Engineer Award – Civil Engineer of the Year; 2013 EWeek Greater Phoenix Area Outstanding Engineer of the Year; City of Phoenix Development Advisory Board (Contractors); <b>Organizations:</b> AZ Society of Professional Engineers; AZ Council of Engineering Companies; AZ Society of Civil Engineers (ASCE); American Public Works Association			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>Bureau of Indian Affairs IDIQ A&amp;E Services – Navajo Nation</b> (Navajo Nation - AZ, NM, UT )		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Ongoing.</b> The projects include preliminary engineering, location surveying related to the design of roads, bridges, and/or other transportation facilities along with production of site maps, soil and materials surveys, geotechnical explorations, engineering reports, and preparation of complete Plans, Specifications & Engineer’s Estimates (PS&E). <b>Size:</b> Navajo Nation; <b>Cost:</b> \$TBD; <b>Role:</b> Project Principal	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	<b>Lake Pleasant Parkway Design-Build</b> (Peoria, AZ)	<b>2012</b>	<b>2014</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided roadway, drainage and utility engineering design, survey, right-of-way, and post design services to widen a two-lane roadway into a four lane parkway that included bicycle and pedestrian improvements of Lake Pleasant Parkway between Westwing Parkway (WWP) and SR303L. <b>Size:</b> 1.25 miles rural roadway and 3 span bridge; <b>Cost:</b> \$1,360,422; <b>Role:</b> Project Principal	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	<b>Lone Pine Dam and Bridge Design and Design Concept Report</b> (Holbrook, AZ)	<b>2009</b>	<b>2011</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided pre-design, final design, and post design services for the Lone Pine Dam Road and Bridge project, thus successfully taking the project from “cradle to grave”. <b>Size:</b> 1.25 miles rural roadway and 3 span bridge; <b>Cost:</b> \$1.1M; <b>Role:</b> Project Principal	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	<b>Pioneer Park</b> (Peoria, AZ)	<b>2010</b>	<b>2013</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Design included a complete mass grading evaluation for the entire site, finish grading construction documents, water main infrastructure, sewer main infrastructure, drainage design, maintenance facility improvements, and roadway design for three loop roads. <b>Size:</b> 85 acres; <b>Cost:</b> \$378,786.24; <b>Role:</b> Project Principal	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	<b>TCA-SAR-101 CBP FM&amp;E Civil Site and Roadways (SAR) Project</b> (Southern Arizona)	<b>2012</b>	<b>2013</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Performed topographic survey, site assessments, site reports, tower site grading, drainage design, roadway design, geotechnical, and materials testing. Services were provided for 27 tower sites designated by Department of Homeland Security (DHS) and Customs and Border Patrol (CBP). <b>Size:</b> 27; 1.5-acre tower sites with 1.5 miles access roadway to each site; <b>Cost:</b> \$1.3M; <b>Role:</b> Project Principal	<input checked="" type="checkbox"/>	Check if project performed with current firm



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

a. NAME <b>Pete Hemingway, PE</b>		b. ROLE IN THIS CONTRACT <b>Project Manager</b>		c. YEARS EXPERIENCE	
		1. TOTAL <b>31</b>	2. WITH CURRENT FIRM <b>1</b>		
d. LOCATION (City and State) <b>Phoenix, AZ</b>					
e. EDUCATION (DEGREE AND SPECIALIZATION) <b>BS, Civil Engineering</b>			f. PROFESSIONAL TRAINING - REGISTRATIONS <b>AZ PE #23232 - Civil Eng.</b>		
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) <b>Organizations:</b> American Society of Civil Engineers, Society of American Military Engineers, APWA, National Society of Professional Engineers, City of Phoenix-Development Services Advisory Board Chairperson 2001-2003, Arizona Minority Contractors Association Board of Directors, Southeast Valley Pop-Warner Football Coach, Board Member and VP; Arizona Town Hall					

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION (City and State) <b>Special Structural Inspections</b> (Bellemont, AZ)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Ongoing.</b> Special structural inspections for structural improvements at the new Arizona Veterans' Memorial Cemetery at Camp Navajo in Bellemont, Arizona. <b>Size: 30 acres; Cost: \$7M; Role: Project Principal</b>	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (City and State) <b>Southern Arizona Veterans Memorial Cemetery</b> (Sierra Vista, AZ)	(2) YEAR COMPLETED	
		Professional Services <b>2012</b>	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided land survey, civil engineering, and construction management services for the Phase 2 Expansion and Enhancement of the Southern Arizona Veterans' Memorial Cemetery in Sierra Vista, Arizona. Project components included an additional columbaria plaza with two above-grade structures, additional hardscape, parking, private roadway paving, curb, and drainage improvements. <b>Cost: \$1.5M; Role: Project Principal</b>	<input type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (City and State) <b>Emergency Dept. Facility at the Bob Stump Veterans Administration Medical Center</b> (Prescott, AZ)	(2) YEAR COMPLETED	
		Professional Services <b>2011</b>	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE A new emergency department facility originally planned to be an expansion, this project has grown into a freestanding 2-story building. Work includes major utility relocations, new utility services, a new ambulance drop off area, and parking lot and drive isle reconfigurations/revisions. <b>Cost: \$3.5M; Role: Project Principal</b>	<input type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (City and State) <b>Southern Arizona State Veterans Home</b> (Tucson, AZ)	(2) YEAR COMPLETED	
		Professional Services <b>2008</b>	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Produced the 35% civil "bridging documents" for the eight-acre site, including one administrative building, four clustered residential buildings, parking areas, and drive isles. Civil challenges included the design tight utility corridor for domestic water, fire sanitary, and gas services to multiple buildings without crossing the enclosed building walkway system. <b>Cost: \$27M; Role: Project Principal</b>	<input type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION (City and State) <b>Phoenix Sky Harbor Rental Car Center</b> (Phoenix, AZ)	(2) YEAR COMPLETED	
		Professional Services <b>2008</b>	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As a part of the ABACUS Program Management team for this 135-acre development Pete was responsible for the civil services portion of the Scope of Work. He was responsible for the conceptual plan and/or design for grading and drainage; roadway, interior and offsite; plan reviews; utility removal and relocation; and traffic design. <b>Cost: \$150M; Role: Project Manager</b>	<input type="checkbox"/> Check if project performed with current firm	



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

a. NAME <b>Frank Henderson, PE</b>		b. ROLE IN THIS CONTRACT <b>Project Manager/ Construction Manager</b>		c. YEARS EXPERIENCE	
		1. TOTAL <b>35</b>	2. WITH CURRENT FIRM <b>6</b>		
d. LOCATION (City and State) <b>Phoenix, AZ</b>					
e. EDUCATION (DEGREE AND SPECIALIZATION) <b>BS, Civil Engineering</b>			f. PROFESSIONAL TRAINING - REGISTRATIONS <b>PE #28940, AZ - Civil Eng.; IL, WI - Civil Eng.; PE #29751, WI - Civil Eng.; NM, CO, UT (Pending)</b>		
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) <b>Organizations:</b> American Public Works Assoc.; Arizona Society of Civil Engineers; Society of American Military Engineers					

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>TCA-SAR-101 CBP FM&amp;E Civil Site and Roadways (SAR) Project</b> (Southern Arizona)	<b>2012</b>	<b>2013</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Performed topographic survey, site assessments, site reports, tower site grading, drainage design, roadway design, geotechnical, and materials testing. Services provided for 27 tower sites designated by Department of Homeland Security (DHS) and Customs and Border Patrol (CBP). <b>Size:</b> 27; 1.5-acre tower sites with 1.5 mi access roadway to each; <b>Cost:</b> \$1.3M; <b>Role:</b> Asst. Project Manager	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	<b>ACOE #J1011-3-04 IFT Road Construction, Renovation &amp; Civil Site Work</b> (Southern Arizona)	<b>2013</b>	<b>2013</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Performed surveying and construction staking for 27 civil site and roadways (SAR) for the Army Corps of Engineers along the Arizona border. <b>Size:</b> 27; 1.5-acre tower sites with 1.5 miles access roadway to each site; <b>Cost:</b> \$75,000; <b>Role:</b> QA/QC	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	<b>Bureau of Indian Affairs IDIQ A&amp;E Services – Navajo Nation</b> (Navajo Nation - AZ, NM, UT )		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Ongoing.</b> The projects include preliminary engineering, location surveying related to the design of roads, bridges, and/or other transportation facilities along with production of site maps, soil and materials surveys, geotechnical explorations, engineering reports, and preparation of complete Plans, Specifications & Engineer’s Estimates (PS&E). <b>Size:</b> Navajo Nation; <b>Cost:</b> \$TBD; <b>Role:</b> Project Manager	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	<b>SR 303L – Peoria Avenue to Waddell Road</b> (Peoria, AZ)	<b>2010</b>	<b>2013</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE RPA completed design for 2.5 miles (The Peoria Ave to Waddell Rd) of divided urban freeway of the I-10 to US 60 segment of SR 303L project will construct a 3-lane configuration to the outside, while the ultimate facility will have two additional lanes in each direction to the inside to provide a 5-lane configuration. <b>Size:</b> 2.5 miles; <b>Cost:</b> \$4.2M; <b>Role:</b> Project Manager	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	<b>Chandler Boulevard/Price L101 Design and Construction Management Services</b> (Chandler, AZ)	<b>2009</b>	<b>2013</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided construction management services including construction inspection, construction survey staking, construction management and construction administration services for this federally funded Congestion Management Air Quality (CMAQ) project to widen and upgrade this freeway traffic interchange. <b>Size:</b> 1.4 miles of major urban arterial widening; <b>Cost:</b> \$649,000; <b>Role:</b> Project Manager and Construction Manager	<input checked="" type="checkbox"/>	Check if project performed with current firm



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a. NAME <b>Brian Scott, PE</b>		b. ROLE IN THIS CONTRACT <b>Highway/Roadway Engineer</b>		c. YEARS EXPERIENCE	
		1. TOTAL <b>14</b>	2. WITH CURRENT FIRM <b>&lt; 1</b>		
d. LOCATION (City and State) <b>Phoenix, AZ</b>					
e. EDUCATION (DEGREE AND SPECIALIZATION) <b>BS, Civil Engineering</b>			f. PROFESSIONAL TRAINING - REGISTRATIONS <b>PE #42775, AZ - Civil Eng.; PE #37326, LA - Civil Eng.; PE #15355, ID - Civil Eng.</b>		
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) <b>Organizations: AZ Society of Civil Engineers (ASCE)</b>					

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION (City and State) <b>I-17 Pavement Preservation, 19th Ave to Arizona Canal Trail (Phoenix, AZ)</b>	(2) YEAR COMPLETED	
		Professional Services <b>2014</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Ongoing.</b> Brian is performing engineering predesign and final design services for ADOT's pavement preservation project on I-17 from 19th Ave to the Arizona Canal Trail. The project includes 1" of AR-ACFC milling and replacement on the mainline and ramps, guardrail upgrades, and other safety improvements on the mainline. The project also includes an ADA compliance assessment of pedestrian accommodations at 10 crossroads. <b>Size: 13 miles; Cost: \$4M; Role: Sr. Project Manager</b>	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (City and State) <b>I-8/Araby TI (Yuma, AZ)</b>	(2) YEAR COMPLETED	
		Professional Services <b>2014</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Ongoing.</b> Brian is providing engineering design services for this final design project to convert three signalized intersections at the I-8/Araby Rd traffic interchange to roundabout intersections. Brian designed the horizontal and vertical alignments to minimize the project footprint to save construction cost and avoid the need for new right-of-way. He led the preparation of final design documents, right-of-way/utility/materials clearances, and utility removal/relocation plans. <b>Size: 2 miles; Cost: \$8M; Role: Sr. Project Manager</b>	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (City and State) <b>White Mountain Apache Tribe BIA (Navajo County, AZ)</b>	(2) YEAR COMPLETED	
		Professional Services <b>2014</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Ongoing.</b> Project consists of safety improvements on BIA 3, BIA 12, BIA 46, and BIA 55 in the Fort Apache Indian Reservation. The proposed safety improvements consist of upgrading pavement markings, signing, and guardrail at spot locations throughout the 4 BIA routes. Brian has designed the improvements to provide adequate barrier length of need, guardrail height, and guardrail end treatments. <b>Size: 35 miles; Cost: \$2M; Role: Sr. Project Manager</b>	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (City and State) <b>I-19, Ajo Way TI (Pima County, AZ)</b>	(2) YEAR COMPLETED	
		Professional Services <b>2014</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This interstate widening and interchange improvement project converted a partial cloverleaf to a single-point urban interchange (SPUI). Brian coordinated design issues across technical disciplines and assisted the project manager's oversight of the technical team. As Lead Roadway Engineer, he refined the horizontal and vertical geometry to improve constructability in the congested urban area and prepared construction cost estimates for several potential phasing options to help ADOT program funding. <b>Size: 3 miles; Cost: \$75M; Role: Project Engineer, Lead Roadway Engineer</b>	<input type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION (City and State) <b>US 93, Wickenburg Ranch Roundabout (Yavapai County, AZ)</b>	(2) YEAR COMPLETED	
		Professional Services <b>2014</b>	Construction (if applicable) <b>2014-15</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This roundabout intersection project on US 93 was funded by a private developer to serve a large-scale master-planned residential community. Brian coordinated design issues between the developer and ADOT and prepared construction bid documents for the project. The project constructed an interim two-lane roundabout that will accommodate expansion of US 93 to a divided four-lane highway. <b>Size: 1 mile; Cost: \$3M; Role: Project Manager, Lead Roadway Engineer</b>	<input type="checkbox"/> Check if project performed with current firm	



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a. NAME <b>Raj Shah, PE</b>	b. ROLE IN THIS CONTRACT <b>Drainage Engineer</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>25</b>	2. WITH CURRENT FIRM <b>4</b>
d. LOCATION (City and State) <b>Phoenix, AZ</b>			
e. EDUCATION (DEGREE AND SPECIALIZATION) <b>BS, Civil Engineering</b>		f. PROFESSIONAL TRAINING - REGISTRATIONS <b>AZ PE #27556 – Civil Eng.</b>	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) <b>Organizations:</b> AZ Council of Engineering Companies (ACEC); AZ Society of Civil Engineers (ASCE); American Public Works Association (APWA); Arizona Floodplain Management Association (AFMA)			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION (City and State) <b>115<sup>th</sup> Ave &amp; Union Hills Drive Drainage Improvements</b> (Surprise and Peoria, AZ)	(2) YEAR COMPLETED
		Professional Services <b>2012</b>
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Ongoing.</b> The project involves updating the hydrology and hydraulics for the study area. The hydraulic analysis utilized unsteady hydraulic modeling to reduce the size of the proposed drainage structures. Storm water management features included channels, storm drains, storage basins, and culverts. LID was incorporated into this project. <b>Size:</b> 5 miles; <b>Cost:</b> \$542,000; <b>Role:</b> Drainage Engineer		<input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION (City and State) <b>Arizona City Flood Hazard Mitigation</b> (Pinal County, AZ)	(2) YEAR COMPLETED
		Professional Services <b>2012</b>
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Arizona City is located in western Pinal County and often experiences significant flooding, even during smaller rainfall events. Evaluated the existing hydrology and hydraulics, as well as developed drainage alternatives that would mitigate the flooding. Several mitigation alternatives for different rainfall events were presented to Pinal County. The multiple alternatives allowed County staff to select the mitigation alternative which met their budget constraints. <b>Size:</b> 2 miles; <b>Cost:</b> \$202,741; <b>Role:</b> Drainage Engineer		<input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION (City and State) <b>Chandler Boulevard/Price L101 Design and Construction Management Services</b> (Chandler, AZ)	(2) YEAR COMPLETED
		Professional Services <b>2009</b>
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided construction management services including construction inspection, construction survey staking, construction management and construction administration services for this federally funded Congestion Management Air Quality (CMAQ) project to widen and upgrade this freeway traffic interchange. <b>Size:</b> 1.4 miles of major urban arterial widening; <b>Cost:</b> \$649,000; <b>Role:</b> Drainage Engineer		<input checked="" type="checkbox"/> Check if project performed with current firm
4.	(1) TITLE AND LOCATION (City and State) <b>Mawid Speed Humps and Drainage – GRIC / BIA</b> (Sacaton, AZ)	(2) YEAR COMPLETED
		Professional Services <b>2012</b>
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Phase 1 engineering design and layout for District 2 Mawid Subdivision speed humps and drainage project. This project involved coordination with BIA. <b>Size:</b> 1 mile of speed humps and 78-acres of drainage analysis; <b>Cost:</b> \$1,800; <b>Role:</b> Drainage Engineer		<input checked="" type="checkbox"/> Check if project performed with current firm
5.	(1) TITLE AND LOCATION (City and State) <b>TCA-SAR-101 CBP FM&amp;E Civil Site and Roadways (SAR) Project</b> (Southern Arizona)	(2) YEAR COMPLETED
		Professional Services <b>2012</b>
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Performed topographic survey, site assessments, site reports, tower site grading, drainage design, roadway design, geotechnical, and materials testing. Services were provided for 27 tower sites designated by Department of Homeland Security (DHS) and Customs and Border Patrol (CBP). <b>Size:</b> 27; 1.5-acre tower sites with 1.5 miles access roadway to each site; <b>Cost:</b> \$1.3M; <b>Role:</b> QA/QC		<input checked="" type="checkbox"/> Check if project performed with current firm



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

a. NAME <b>Steve Lewis, PE</b>		b. ROLE IN THIS CONTRACT <b>Utilities Engineer</b>		c. YEARS EXPERIENCE	
		1. TOTAL <b>20</b>	2. WITH CURRENT FIRM <b>10</b>		
d. LOCATION (City and State) <b>Phoenix, AZ</b>					
e. EDUCATION (DEGREE AND SPECIALIZATION) <b>BS, Civil Engineering</b>			f. PROFESSIONAL TRAINING - REGISTRATIONS <b>AZ PE #34589; NM PE #22127</b>		
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) <b>Awards:</b> 2014 ACEC Engineering Excellence Grand Award Winner – Pioneer Community Park; <b>Organizations:</b> AZ Society of Professional Engineers; AZ Council of Engineering Companies; AZ Society of Civil Engineers (ASCE); American Public Works Association (APWA).					

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION (City and State) <b>TCA-SAR-101 CBP FM&amp;E Civil Site and Roadways (SAR) Project (Southern AZ)</b>	(2) YEAR COMPLETED	
		Professional Services <b>2012</b>	Construction (if applicable) <b>2013</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Performed topographic survey, site assessments, site reports, tower site grading, drainage design, roadway design, geotechnical, and materials testing. Services provided for 27 tower sites designated by Department of Homeland Security (DHS) and Customs and Border Patrol (CBP). <b>Size:</b> 27; 1.5-acre tower sites with 1.5 miles access roadway to each; <b>Cost:</b> \$1.3M; <b>Role:</b> Project Manager	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (City and State) <b>ACOE #J1011-3-04 IFT Road Construction, Renovation &amp; Civil Site Work (Southern AZ)</b>	(2) YEAR COMPLETED	
		Professional Services <b>2013</b>	Construction (if applicable) <b>2013</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Performed surveying and construction staking for 27 civil site and roadways (SAR) for the Army Corps of Engineers along the Arizona border. <b>Size:</b> 27; 1.5-acre tower sites with 1.5 miles access roadway to each site; <b>Cost:</b> \$75,000; <b>Role:</b> Project Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (City and State) <b>Pioneer Park (Peoria, AZ)</b>	(2) YEAR COMPLETED	
		Professional Services <b>2010</b>	Construction (if applicable) <b>2013</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Design included a complete mass grading evaluation for the entire site, finish grading construction documents, water main infrastructure, sewer main infrastructure, drainage design, maintenance facility improvements, roadway design for three loop roads. <b>Size:</b> 85 acres; <b>Cost:</b> \$378,786.24; <b>Role:</b> Project Manager	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (City and State) <b>Peoria Sports Complex (Peoria, AZ)</b>	(2) YEAR COMPLETED	
		Professional Services <b>2013</b>	Construction (if applicable) <b>2014</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE San Diego Padres and the Seattle Mariners organizations continue spring training at the Peoria Sports Complex. As a CMAR project, RPA worked closely with the contractor throughout the design phase on implementing strategies to protect existing facilities in place where required, reduce project costs through incorporation of value engineering, and to define appropriate construction sequencing. Clubhouse improvements were designed for LEED certification and project design implemented Low Impact Development (LID) concepts throughout the civil design. <b>Size:</b> 20 acres; <b>Cost:</b> \$27M; <b>Role:</b> Project Manager	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION (City and State) <b>Maricopa Fire Station 572 (Maricopa, AZ)</b>	(2) YEAR COMPLETED	
		Professional Services <b>2012</b>	Construction (if applicable) <b>2013</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided civil engineering design of a new 6,000-foot fire station facility. Services included plan review; grading; drainage and utility plans; and post construction services. Utility plans included preparation of water and sewer facilities for the new fire station based on Arizona Department of Environmental Quality (ADEQ) Standards. <b>Size:</b> 2 acres; <b>Cost:</b> \$25,000 (Phase I & II); <b>Role:</b> Project Principal	<input checked="" type="checkbox"/> Check if project performed with current firm	



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

a. NAME <b>Phil Lorenz, ACI, ATTI, ICC, MSA</b>	b. ROLE IN THIS CONTRACT <b>Constructability Reviewer</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>39</b>	2. WITH CURRENT FIRM <b>7</b>
d. LOCATION (City and State) <b>Phoenix, AZ</b>			
e. EDUCATION (DEGREE AND SPECIALIZATION) <b>BS, Business Admin; Intl. Residential Code Courses; Naval Construction Force Training Center</b>		f. PROFESSIONAL TRAINING - REGISTRATIONS <b>American Concrete Institute (ACI) #01246229; Arizona Technical Testing Institute (ATTI); ICC Certified Building Inspector #5230794; IMSA Work Zone Certified SI86477/Z86477; IMSA Traffic Signal Inspector Certified</b>	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) <b>Organizations:</b> Naval Reserve Association; U.S. Navy Seabees; Chief Petty Officers Assoc.			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>TCA-SAR-101 CBP FM&amp;E Civil Site and Roadways (SAR) Project (Southern AZ)</b>	<b>2012</b>	<b>2013</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Performed topographic survey, site assessments, site reports, tower site grading, drainage design, roadway design, geotechnical, and materials testing. Services provided for 27 tower sites designated by Department of Homeland Security (DHS) and Customs and Border Patrol (CBP). <b>Size:</b> 27; 1.5-acre tower sites with 1.5 miles access roadway to each; <b>Cost:</b> \$1.3M; <b>Role:</b> Construction Inspector		
2.	<b>ACOE #J1011-3-04 IFT Road Construction, Renovation &amp; Civil Site Work (Southern AZ)</b>	<b>2013</b>	<b>2013</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Performed surveying and construction staking for 27 civil site and roadways (SAR) for the Army Corps of Engineers along the Arizona border. <b>Size:</b> 27; 1.5-acre tower sites with 1.5 miles access roadway to each site; <b>Cost:</b> \$75,000; <b>Role:</b> Construction Inspector		
3.	<b>SR 95 and Mohave Road Intersection (MP 142) – Colorado River Indian Tribe (CRIT) (Parker, AZ)</b>	<b>2012</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ongoing Project. The Arizona Department Of Transportation Yuma District requested pre-design services for proposed improvements at the SR 95 and Mohave Road Intersection. The goal of the project is to determine the preferred intersection configuration by preparing a Project Assessment Report (PAR). <b>Size:</b> 1.25 miles rural roadway and roundabout; <b>Cost:</b> \$99,500; <b>Role:</b> Construction Inspector		
4.	<b>White Mountain Apache Tribe BIA SH532 03D Task order No. 3 (Kayenta, AZ)</b>	<b>2013</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ongoing Project. The Roadway Safety Improvement for the White Mountain Apache Tribe in the Globe District, Navajo County project involves project assessment, clearances, preliminary design to design, and final sealed construction documents for the subject project. <b>Size:</b> 50 miles of rural roadway; <b>Cost:</b> \$236,000; <b>Role:</b> Construction Inspector		
5.	<b>Chandler Boulevard/Price L101 Design and Construction Management Services (Chandler, AZ)</b>	<b>2009</b>	<b>2013</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided construction management services incl: construction inspection, construction survey staking, construction mgmt and construction admin services for this federally funded Congestion Management Air Quality (CMAQ) project to widen and upgrade this freeway traffic interchange. <b>Size:</b> 1.4 miles of major urban arterial widening; <b>Cost:</b> \$649,000; <b>Role:</b> Construction Inspector		



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

a. NAME <b>Joseph Falinski, PLS</b>	b. ROLE IN THIS CONTRACT <b>Survey Manager</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>35</b>	2. WITH CURRENT FIRM <b>24</b>
d. LOCATION (City and State) <b>Phoenix, AZ</b>			
e. EDUCATION (DEGREE AND SPECIALIZATION) <b>Forestry and Land Surveying</b>		f. PROFESSIONAL TRAINING - REGISTRATIONS <b>AZ PLS #31591</b>	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) <b>Organizations: Arizona Professional Land Surveyors</b>			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>TCA-SAR-101 CBP FM&amp;E Civil Site and Roadways (SAR) Project</b> (Southern AZ)	<b>2012</b>	<b>2013</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Performed topographic survey, site assessments, site reports, tower site grading, drainage design, roadway design, geotechnical, and materials testing. Services were provided for 27 tower sites designated by Department of Homeland Security (DHS) and Customs and Border Patrol (CBP). <b>Size: 27;</b> 1.5-acre tower sites with 1.5 miles access roadway to each site; <b>Cost: \$1.3M; Role: Survey Manager</b>		
2.	<b>ACOE #J1011-3-04 IFT Road Construction, Renovation &amp; Civil Site Work</b> (Southern AZ)	<b>2013</b>	<b>2013</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Performed surveying and construction staking for 27 civil site and roadways (SAR) for the Army Corps of Engineers along the Arizona border. <b>Size: 27;</b> 1.5-acre tower sites with 1.5 miles access roadway to each site; <b>Cost: \$75,000; Role: Survey Manager</b>		
3.	<b>Gila River Indian Community (GRIC) District 3 HUD Housing</b> (Sacaton, AZ)	<b>2010</b>	<b>2010</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided planning and engineering services for 55 HUD-funded homes within GRIC District 3. Work included environmental assessments, boundary and topographic surveying, initial site planning, preliminary platting, establishment of subdivision development design guidelines, grading and drainage plans, water plans, sewer plans, paving plans, storm water prevention plans, and final platting. <b>Size: 160-acre development; Cost: \$114,000; Role: Survey Manager</b>		
4.	<b>Lone Pine Dam and Bridge Design and Design Concept Report</b> (Holbrook, AZ)	<b>2009</b>	<b>2011</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided pre-design, final design, and post design services for the Lone Pine Dam Road and Bridge project, thus successfully taking the project from “cradle to grave”. <b>Size: 1.25 miles rural roadway and 3 span bridge; Cost: \$1.1M; Role: Survey Manager</b>		
5.	<b>SR 95 and Mohave Road Intersection (MP 142) – Colorado River Indian Tribe (CRIT)</b> (Parker, AZ)	<b>2012</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ongoing Project. The Arizona Department Of Transportation Yuma District has requested pre-design services for the proposed improvements at the SR 95 and Mohave Road Intersection (MP 142). The goal of the project is to determine the preferred intersection configuration by preparing a Project Assessment Report (PAR). <b>Size: 1.25 miles rural roadway and roundabout; Cost: \$99,500; Role: Survey Manager</b>		



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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>BIA IDIQ A&amp;E Services – Navajo Nation</b> (Navajo Nation - AZ, NM, UT)		b. YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2014</b>	CONSTRUCTION <i>(If applicable)</i>
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER <b>Bureau of Indian Affairs</b>	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT <b>\$7,500,000</b>	e. TOTAL COST OF PROJECT <b>\$7,500,000</b>	

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

**Scope: Ongoing.** This IDIQ is a \$7.5M per year contract. The projects include preliminary engineering, location surveying related to the design of roads, bridges, and/or other transportation facilities along with production of site maps, soil and materials surveys, geotechnical explorations, engineering reports, and preparation of complete Plans, Specifications & Engineer's Estimates (PS&E) in accordance with BIA local standards, Federal Highway Administration (FHWA) standards, American Association of State Highway and Transportation Officials Policy on Geometric Design of Highways & Streets, latest edition, (AASHTO), American Society of Testing and Materials (ASTM) Procedures, and other approved State Standards, including all engineering calculations and cost estimates for road and bridge design and construction, which also takes into consideration factors pertaining to the design and/or analysis of terrain, region, foundation, right-of-way, corridor studies, traffic control devices, hydraulics and drainage analysis, sedimentation and erosion, and design Average Daily Traffic (ADT), signal lights and street lighting as well as addressing related archeological, environmental, and flood hazard clearance requirements as required by all Federal regulations, and perform value engineering in regards to alternative solutions to particular road and bridge related issues.

**Size:** Navajo Nation

**Length:** 1 base year and options to extend the contract for 4 additional 1-year periods

**Relevancies:** comprehensive surveying and engineering services, stakeholder coordination





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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>Lake Pleasant Parkway Design-Build (Peoria, AZ)</b>		b. YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2012</b>	CONSTRUCTION <i>(If applicable)</i> <b>2014</b>
<b>23. PROJECT OWNER'S INFORMATION</b>			
c. PROJECT OWNER <b>City of Peoria</b>	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT <b>\$1,200,000</b>	e. TOTAL COST OF PROJECT <b>\$1,360,422 (additional services)</b>	

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

**Scope:** RPA provided roadway, drainage and utility engineering design, survey, right-of-way, and post design services to widen a two-lane roadway into a four lane parkway that included bicycle and pedestrian improvements of Lake Pleasant Parkway between Westwing Parkway (WWP) and SR303L. Project improvements included bike lanes, sidewalks, lighting, traffic signals, storm drainage, concrete structures, landscaping, multi-use path, right-of-way acquisition and utility relocations. Project elements included new roadway, pavement reconstruction, multi-purpose pathway(s), drainage, new pedestrian/wash structure, lighting, utility coordination/design, and landscape. Project was constructed utilizing the Design Build (DB) process with Ames Construction.



**Size:** 6.66 miles

**Length:** 12 months, design | 12 months construction

**Relevancies:** comprehensive surveying and engineering services





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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>Pioneer Park (Peoria, AZ)</b>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES <b>2010</b>	CONSTRUCTION <i>(If applicable)</i> <b>2013</b>

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER <b>City of Peoria</b>	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT <b>\$374,902.00</b>	e. TOTAL COST OF PROJECT <b>\$378,786.24 (additional services)</b>
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

**Scope:** RPA played a significant role as the Lead Engineering Consultant for the City of Peoria's second community park design-build project. RPA's team of professionals provided surveying and civil engineering services. Design included a complete mass grading evaluation for the entire site, finish grading construction documents, water main infrastructure, sewer main infrastructure, drainage design, maintenance facility improvements, roadway design for three loop roads. The team focused on preservation, integration, conservation, and contribution to the environment. This is the first project in Peoria's history that ties green building standards for facilities and sustainable design for site improvements into one project vision.

**ACEC Engineering Excellence Grand Award Winning Project in 2014**

**Size:** 85-acres

**Length:** 2011-2014

3 years and 2 months, design | 11 months, construction

**Relevancies:** comprehensive surveying and engineering services





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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>Arizona Department of Emergency Military Affairs (DEMA) ALTA Survey &amp; Phase I Environmental Assessment</b> (eight different project areas throughout the state including five in Maricopa County, and one each in Pima, Santa Cruz and Cochise County, AZ)	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES <b>2014</b>	CONSTRUCTION <i>(If applicable)</i>

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER <b>Arizona Department of Emergency Military Affairs</b>	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT <b>\$236,341</b>	e. TOTAL COST OF PROJECT <b>TBD</b>
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

**Scope:** Ongoing. RPA was selected to provide field and office survey services related to ALTA Surveys, as, well as, management and oversight of sub consultants and vendors providing ALTA survey related services, Phase I Environmental Site Assessments and appraisal (valuation) services for 26 parcels grouped in eight different project areas throughout the state including five in Maricopa County, and one each in Pima, Santa Cruz and Cochise County. Project challenges included coordination of aerial mapping tasks and related ground survey support for remote locations during extended periods of poor weather conditions. Other issues included data acquisition from a variety of sources such as federal (GLO) State (State Land Department) and local (municipal) agencies and scheduling resources over the duration of a compressed schedule. Extensive coordination with all stake holders including client, property owners and their representatives was performed throughout the duration of this task.

**Size:** 26 parcels

**Length:** 5 months

**Relevancies:** comprehensive surveying services, multiple locations, agency coordination, project through ADOA





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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	
<b>TCA-SAR-101 CBP FM&amp;E Civil Site and Roadways (SAR) Project</b> (Southern AZ)		PROFESSIONAL SERVICES <b>2012</b>	CONSTRUCTION <i>(If applicable)</i> <b>2013</b>
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT	
<b>Customs and Border Patrol</b>	<b>\$1,300,000</b>	<b>\$1,300,000</b>	

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

**Scope:** RPA performed topographic survey, site assessments, site reports, tower site grading, drainage design, roadway design, geotechnical, and materials testing. Services were provided for 27 tower sites designated by Department of Homeland Security (DHS) and Customs and Border Patrol (CBP). This project was based on the Integrated Fixed Tower (IFT) initial contract. After the SBINet project was placed on hold by DHS/CPB, our team was contracted to continue. The 27 sites are located within three of five sectors in Arizona. The sectors completed are: Nogales; Sonoita; and Douglas.

**Size:** 27; 1.5-acre tower sites with 1.5 miles access roadway to each site

**Length:** 6 months

**Relevancies:** comprehensive surveying and engineering services





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6. ADDITIONAL INFORMATION

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

**FIRM'S HISTORY**

**RIToch-POWELL & Associates (RPA)** is a locally owned and operated full-service civil engineering and surveying firm in Phoenix, Mesa, and Tucson (satellite), Arizona. Since our inception in 1978, RPA has built an impeccable reputation of providing quality services with highly sought after registered professionals and skilled technical staff. Our team has developed and maintained relationships with numerous municipalities and private clients.

RPA offers reliable and cost-effective One-Stop-Shop services:

**SURVEY:** Field survey, topo/right-of-way/parcel/utility basemapping, construction staking, as-built surveys, boundary surveys, ALTA surveys, precision leveling, geodetic control networks;

**PRE-DESIGN:** Project assessment reports, design concept reports, scoping letters, technical memorandums;

**DESIGN:** Site civil and infrastructure, irrigation, utility coordination, water/wastewater, transportation, drainage, energy and power, geographic information systems, mining, parks and trails, airport infrastructure;

**POST-DESIGN:** Construction management, construction administration, inspection, bidding assistance, federal reporting; and

**ALTERNATIVE DELIVERY METHODS:** Construction Manager at Risk-CMAR, Design/Build-D/B, Public Private Partnership-P3.

Our firm is an award-winning prime consultant with in-house experts specializing in transportation, public works, and private development projects. As a testimonial to our quality of service, RPA is currently providing services for over 30 on-call contracts. During our 36-year history RPA has grown from a 3-person firm to the 50+ person corporation it is today without a single legal claim.



**FINANCIAL AND HUMAN RESOURCE CAPACITY**

RPA's current debt is almost negligible. Our current capital liquidity allows flexibility to obtain any new hardware or equipment necessary for project completion in minimal time. This allows us to obtain additional staff, specialty software, hardware, or equipment necessary for project completion without utilizing any of our \$1M+ line of credit, or \$8M+ in assets. RPA's staff of 50+ employees is immediately available to begin design activities without additional "staffing-up".



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**TEAM PHILISOPHY, PARTENERING, AND APPROACH TO PROJECT SUCCESS**



Team RPA’s project management (PM) objective is to assist our clients in obtaining quality facilities through the use of a well-organized project strategy, understanding that each project is a detailed, integrated process involving planning, design, construction, and final occupancy, not a series of independent phases of work. Successful Construction Management (CM) implementation requires a wide range of engineering and support services. This philosophy is simple to us—to deliver a cost-efficient, quality product on time and within budget.

Under our philosophy, the team includes not only the Corporate Contract Manager (CCM), design engineers, construction engineers, contract administration, construction inspectors, survey crews, and support staff, but also the project owner, construction contractors, design professionals, regulatory agencies, and local government authorities. We began using this team concept well before such key concepts as “partnering” became common to the construction industry. **We understand the importance of keeping all involved in the project informed of the status of the work as it affects their activities.** Communication with parties both directly and indirectly involved in a project is one of the major keys to the success of the project. This communication must begin prior to the commencement of construction activities and must continue through the completion of the project. With this philosophy, we will:

- **ESTABLISH AND MAINTAIN RELATIONSHIPS:** Team RPA has solid experience and communications skills to develop relationships with contractors to allow frank, concise, and effective communications that lead to finding the right decision quickly and efficiently. Our role as a construction administrator is directly tied to maintaining the ADOA’s excellent reputation for providing services as a partner to the public.
- **PROVIDE MANAGEMENT:** Every project must be diligently administered following ADOA requirements. As demonstrated through our past work history, Team RPA is intimately knowledgeable in the stringent and specific reporting and quality assurance requirements to meet federal quality and budget objectives. By selecting Team RPA, you can be assured that from Notice to Proceed (NTP) through ribbon cutting, every project will be managed, inspections conducted and documented, and the project closed out according to industry best practices.
- **PROVIDE LEADERSHIP:** It is essential that all Team members share a common goal and work in concert through ADOA process to efficiently get the projects built and operational. Team RPA will be led by Frank Henderson PE, our CCM. Frank has 35 years of construction management and civil engineering design experience for municipal and federal projects. He has managed projects with design contract values up to \$6M and construction contract values up to \$160M. His project experience includes bid solicitation (including conformance to Davis-Bacon Act requirements), construction management and oversight, transportation design (plan, specifications, and cost estimates), project management, and regulatory agency coordination for municipal and federally funded infrastructure improvements. **Frank’s reputation for schedule conformance, cost control, construction detail, responsiveness to clients, and technical accuracy is unsurpassed and proven.**
- **ADVOCATE PARTNERING:** Team RPA’s CM approach is to advocate a collaborative, cooperative, and communicative team attitude with the ADOA staff, project stakeholders and construction management team leaders. Project success requires continuous interface with our clients and our team to ensure project objectives are reinforced and project obstacles are addressed. Our CCM, Frank Henderson, PE, will be the sole source contact for the ADOA staff and will be responsible for managing RPA’s Construction Management team.



## SUSTAINABILITY APPROACH

Our sustainability approach is compatible with ADOA’s goals of:

- **ACCESS AND MOBILITY:** Providing sustainable access to and within the federal lands for use and enjoyment of the land and utilization of its resources. This means providing a seamless transportation network connecting the National Forest System lands with local communities and major highway systems. We will take the plans provided for any project and implement them in the field.
- **SAFETY AND CONDITION:** Ensure a safe and reliable transportation network to and within the federal lands. Providing improved conditions of the transportation facilities in order to reduce long-term maintenance costs to the federal lands is key to our quality program. Providing safety through the work zones for the traveling public while the road improvements are being constructed is key to the way we conduct our construction administration.
- **NATURAL RESOURCE PROTECTION:** Maintain leadership in protecting and enhancing the natural environment. We will ensure the contractor follows the environmental policies required by the contract and by best practices used in the road construction industry.



## INTERNAL POLICIES AND PROCEDURES

- **SAFETY:** Safety is Team RPA’s number one priority. We take project site safety very seriously and our outstanding safety record speaks to this commitment. We hold weekly safety meetings with our staff and encourage participation in the contractor’s safety meetings as well. Our staff has an excellent understanding of construction safety and requirements of maintaining a safe working environment as many have taken the 10-hour Occupational Safety and Health Administration (OSHA) training and/or 30-hour OSHA training course. We will ensure the contractor’s safety program is available at the job site. Managing traffic through the construction zone is also critical to the success of the project.
- **CONTRACT ADMINISTRATION:** RPA is a privately held firm and decisions are made locally. We enjoy ease of contracting with our subcontractors as well. We will be ready to mobilize immediately upon notice-to-proceed by the ADOA.
- **PARTNERING AND PUBLIC INVOLVEMENT:** RPA recognizes and supports the industry’s commitment to the partnering process during project development and execution as a way for the client, the designer, the contractor and the construction administrator to collaborate to solve problems, increase work efficiency, improve the project development and delivery process, maximize program delivery, provide services that exceed customer expectations, develop innovative products, build and strengthen relationships, and enhance work processes, plans and functions. We know that our effectiveness as leaders in the consulting community is directly tied to the solid relationships we have built with our peers in the industry and relies on the mutual respect that we have developed with them.
- **RISK MANAGEMENT:** Project risk is defined as an unexpected event that has a chance of occurring and may prevent a project from meeting its completion schedule or cause it to exceed its budgeted cost. As part of our risk management practices, we conduct risk workshops and proactive planning sessions in preparation of taking the project to the field. Identifying risks to the project in this environment is highly effective in planning the project with the client. Especially effective on projects of public importance, the process helps to prepare the public for “the best of times and the worst of times” in getting the project built. The process will be based on five phases that includes risk identification, qualitative risk analysis, quantitative risk analysis, risk response planning, risk monitoring, and control.





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- **STAFF SCHEDULING:** Consistency is the key to approaching our staff schedule. Integrating the inspection team into the contractor’s master schedule is an important part of Frank Henderson’s responsibilities. Staffing schedules are set up to coincide with the project’s schedule. Typically, we set our schedule for staffing just after the kick-off meeting as a baseline.
- **INTERNAL QUALITY CONTROL PROCEDURES:** The ADOA’s quality process emphasizes compliance with established quality standards. We have a high level of management commitment; the availability of the resources needed to implement our quality policy; and careful attention to quality control and quality assurance in the development of our work products.
- **ENHANCING PROJECT DEVELOPMENT THROUGH AN EFFECTIVE QUALITY PROGRAM:** In order for the ADOA and its clients to receive the best value and outcome for their projects, the plans and specifications must be built to your quality standards. Our Quality Program ensures that design intent and contractor interpretation are not in conflict, the project is not delayed, the project costs remain stable, and costly construction claims are avoided. As important as maintaining contractor compliance with the construction documents, is minimizing delays and disruptions to motorists which affect your public image. Our quality program and sound construction management practices mitigate these risks, creating a win-win outcome.
- **GENERAL PROCESS FOR TASK ORDER ADMINISTRATION AND BILLING:** RPA has been providing services for on-call contracts for over 36 years. We are familiar with handling a base contract and task orders. Frank Henderson will be monitoring all task orders and making sure the “right” team is on site to manage the project. This is critical because a well-ran project is developed by individuals that can work together and understand the final product. Our firm utilizes Vision software to make sure all labor hours are identified and described, along with all direct costs.
- **PERSONNEL IN EXCESS OF OUR CURRENT WORKFORCE:** Our working pool for preliminary design, plan production, construction management, administration, inspections, and special inspection is very deep. We have a database of individuals that are on-call on for their expertise in order to ensure a task order runs smoothly and is complete. This extended reach was effectively utilized while working on multiple tasks for another federal project along the U.S./Mexico border where 20 additional staff were brought in to assist in order to maintain the contract’s budget and schedule. This was handled efficiently due to processes in place at RPA.
- **PROCESS FOR RECRUITING, TRAINING, AND SUPPORTING PERSONNEL:** As mentioned in the paragraph above, we have a great working pool to utilize. RPA has recruiting processes in place to allow for temporary employment that meets all current federal labor laws. We have utilized this process recently on a large federal contract that included over 25 task orders. This federal contract was delivered on time and below budget. It provided RPA the necessary tools to incorporate our process for recruiting, training, and supporting our personnel and the projects.





## INNOVATIVE PROJECT DELIVERY METHODS

RPA has completed three of the largest transportation CMAR projects in the State of Arizona over the past three years. Frank was RPA's PM for the McQueen Road CMAR (\$28M), and the SR 303 CMAR (\$160M). Karl Obergh managed the Happy Valley Road CMAR (\$58M). Additionally, our team has significant experience in Alternative Delivery Methods.

RPA is prepared to work as an extension of ADOA to assist with any CMAR projects if ADOA considers alternative delivery on future projects.

As an added value for ADOA, RPA offers innovative services and techniques such as 3D survey scanning, 3D utility modeling, and 3D rendering. We strongly believe these innovative techniques benefit ADOA as a visual tool to achieve the public acceptance they require. 3D utility mapping is a type of Information Modeling (BIM) for utilities (3D rendering of our projects utilizing Civil 3D and gaming software) and includes all Glinformation associated with projects.

The design organization is divided into Design Leaders (DL) who report to the Project Manager. The Project Manager will track design progress and anticipate the various peaks in staffing requirements to ensure the project schedule is maintained. Each DL will be responsible for his/her individual design elements.

Coordination and communication between the DL's, their designers, regulatory agencies, and the ADOA are critical. Our successful design coordination experience starts with a series of well-organized weekly meetings that result in documented minutes and tracked action items. Continuous communication, seamless transfer of information, and "project-first" mentality are vital for Project success. Our Team uses the following integration/communication protocols to fuse design and construction functions. This coordination plan includes:

- **DESIGN AND CONSTRUCTION MEETINGS:** The meeting structure will consist of a weekly meeting that is formatted and sequentially ordered to enhance this transfer of information. This Team consists of the ADOA Project Manager, ADOA Technical Staff, RPA's Project Manager, and as needed DL's.
- **DESIGN TEAM MEETINGS:** The Design Team Meetings (DTM's) take place weekly and will be led by Project Manager. Agenda items will include DL completion reports, action item status review, new design issues, schedule updates, quality control reports, and constructability review reports. The action item list is updated for resolution status, new action items, required completion date, and responsible DL designation. Meeting minutes and progress reports will be summarized and provided to ADOA Project Manager at the Design & Construction Team Meetings.
- **TRACKING TOOLS:** The Project Manager will develop a spreadsheet diary document Design Reports, action item decision logs, and new design issues to track and maintain the Project's progress internally. These documents are distributed each Friday, discussed at Team meetings, and maintained as our Project progress control system.
- **INTEGRATION REVIEWS:** Prior to each milestone submittal, each DL performs an "Integration Review" of the plans and specifications to ensure their respective issues and requirements have been properly addressed.





**CLIENT TESTIMONIALS**

By hiring Team RPA, the ADOA will have technical construction experts dedicated to keeping your projects on schedule while providing immediate construction conflict resolution and proactive public outreach information. On the following pages, we have provided a few letters for projects representative of our superlative quality of work, excellence in team collaboration and communication, and our superior technical capabilities on construction management services to public agencies. Our client’s endorsements are the ultimate test of our performance. Please contact these references for their opinions of our performance. Their testimonial is a statement of our reputation.

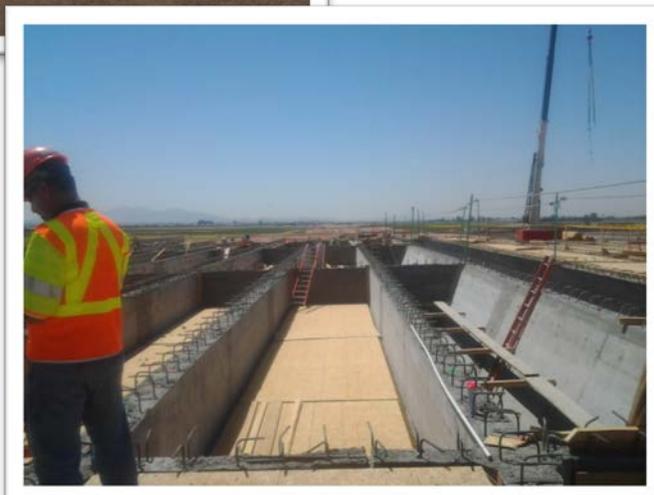
**SR 303L PEORIA TO WADDELL**

*“I would like to express my appreciation for the work Ritoch-Powell performed in design of the Loop 303 Peoria to Waddell segment. As expected, RPA’s service was exemplary throughout the design of the project. All team members were responsive to the needs of ADOT and the Construction Manager at Risk...*

*Thanks in large part to the efforts of Frank and the RPA design team, the GMP was successfully negotiated and the project was awarded at the July Board meeting.*

*This is a very important project for ADOT, the MAG region, and particularly the West Valley and is essential to keeping construction of the Loop 303 on schedule.”*

~ Steve Beasley





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Janice K. Brewer  
*Governor*

John S. Halikowski  
*Director*

**Arizona Department of Transportation**  
**Intermodal Transportation Division**  
206 South Seventeenth Avenue Phoenix, Arizona 85007-3213

Floyd Roehrich Jr.  
*State Engineer*

July 27, 2011

Karl Obergh, PE  
Ritoch Powell & Associates  
3838 N. Central Ave, Ste 1250  
Phoenix, AZ 85038

Karl,

I would like to express my appreciation for the work Ritoch-Powell performed in design of the Loop 303 Peoria to Waddell segment. As expected, RPA's service was exemplary throughout the design of the project. All team members were responsive to the needs of ADOT and the Construction Manager at Risk, Pulice Construction.

Frank Henderson, as Design manager, did an excellent job in managing the project. Because we added the CMAR concept late in design, there were several important issues that arose in scheduling submittals, revising designs, estimates, and specifications, and assisting ADOT and Pulice in developing and agreeing to a Guaranteed Maximum Price. And, as you are aware, the design team pulled together and worked long hours during the last week to get the project to the State Transportation Board in July.

Thanks in large part to the efforts of Frank and the RPA design team, the GMP was successfully negotiated and the project was awarded at the July Board meeting. This is a very important project for ADOT, the MAG region, and particularly the West Valley and is essential to keeping construction of the Loop 303 on schedule.

We look forward to continued excellent service from Ritoch Powell & Associates.

Thanks again!

Sincerely,

Steve Beasley  
Transportation Engineer Manager  
Valley Project Management



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Chandler · Arizona  
Where Values Make The Difference

May 20, 2013

Ritoch-Powell & Associates  
Mr. Karl Obergh, P.E.  
3838 N. Central Ave., #1250  
Phoenix, AZ 85012

Re: Letter of Acknowledgement and Appreciation

Mr. Obergh,

I wanted to take the time to acknowledge and express appreciation for the professional services Ritoch-Powell firm provided to the City of Chandler on two Federally funded, high profile projects. These projects were the Chandler Blvd./Price Loop 101 Intersection Improvements, City Project No. ST0806-401 and the Alma School and Ray Road Intersection Improvements, City Project No. ST0704-401.

I specifically want to acknowledge Mr. Frank Henderson as Project Manager and his team which included Mr. Keith Drunasky, Mr. Ryan Circello, and Ms.Cindy Crume, and other support staff as well. The City advertised and selected Ritoch-Powell for Design and Construction Management Services on both projects. The projects were high visibility and had City Council's attention. It was also crucial that both projects be completed on schedule and on or under budget. Both of these goals were accomplished for these projects.

Working with the City of Chandler's project team, Ritoch-Powell's attention to detail, working through difficult issues on both projects, and willingness to go the extra mile, served well to meet the City's goals.

Once again, I would like to acknowledge your Firm and staff on a job well done.

Regards,

Robert Fortier  
Capital Projects Manager



Mailing Address  
Mail Stop 407  
PO Box 4008  
Chandler, Arizona 85244-4008

Transportation & Development Department  
Capital Projects  
Telephone (480) 782-3307  
Fax (480) 782-3355  
www.chandleraz.gov

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P.O. Box 53999  
Phoenix, AZ 85072

August 27, 2012

American Council of Engineering Companies of Arizona  
1309 East Echo Lane  
Phoenix, AZ 85020

RE: Doney Park Renewable Energy Site (DPRES)  
Project for the 2012 Engineering Excellence Awards Selection Panel

TO WHOM IT MAY CONCERN:

On behalf of the Arizona Public Service (APS), I would like to express our appreciation to the Ritoch-Powell & Associates (RPA) and Taylor RyMar Corporation Team on the successful delivery of the Doney Park Renewable Energy Site project.

DPRES is an integral part of a larger endeavor undertaken in by APS to deploy 1.5 megawatts of utility-owned solar photovoltaic generation within the Doney Park area north of Flagstaff – the Flagstaff Community Power Project. DPRES is also the focal point of a United States Department of Energy grant to study the effects of high penetration of solar on a distribution feeder. The external elements effecting the project led to heightened need for completion of a successful project.

The RPA and Taylor RyMar team provided service above and beyond expectations to APS, even though many of the engineering needs were not known at the onset of the project. They provided leadership and engineering guidance in immeasurable ways to ensure the project was a success. Many unforeseen hurdles were not only overcome but done so in ways that resolved challenges in new ways. All team members collaborated together exceptionally well and were responsive to APS's changing needs and vision.

APS fully endorses the selection of DPRES project as a candidate for the ACEC of Arizona Engineering Excellence Award in the Energy Projects Category.

Sincerely,

Cyndi Newman, PE  
Project Manager Consultant  
Arizona Public Service



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RPA has an enormous responsibility to support ADOA. RPA’s team of experts will respectfully become a seamless extension of ADOA team. We will complement each other’s talents to improve the communities within the geographical jurisdiction of ADOA, while keeping its natural aesthetics. RPA has selected an exceptional team that understands all of the necessary regulations and federal processes to take any project assignment from “cradle to grave”. Our team has a solid reputation and extensive experience delivering all types of projects on time and within budget as listed in ADOA’s scope of work. Because of the diversity in the types of projects and the technical complexity of the ADOA’s engineering needs, a firm with broad capabilities and a variety of technical specialists could prove to be a valuable assets to this on-call contract. RPA has a designated team of specialist who are qualified to deliver a wide spectrum of professional engineering services that will meet ADOA’s needs. The following quotes from our clients speak for themselves:

**LONE PINE DAM ROAD AND BRIDGE PROJECT**

*“RPA has provided excellent customer service and responded to our needs in a timely and efficient manner throughout the life cycle of the project.”*

~ Homero Vela  
Director of Public Works  
Navajo County

**SR 303L PEORIA TO WADDELL**

*“Frank Henderson, as Design Manager, did an excellent job in managing the project.”*

~ Steve Beasley, PE  
(ADOT VPM)

**CHANDLER BOULEVARD/L101 AND ALMA SCHOOL AND RAY ROAD INTERSECTION PROJECTS**

(Federally Funded, High Profile Projects)

*“Ritoch-Powell’s attention to detail, working through difficult issues on both projects, and willingness to go the extra mile, served well to meet the City’s goals.”*

~ Robert Fortier  
Capital Projects Manager  
City of Chandler

**BETHANY HOME ROAD PROJECT**

*“Thanks for the work well done. We appreciate your services.”*

~ Mohammad Ayub Zaid, PE  
Project Manager  
Valley Project Management  
ADOT

**ADA TRANSITION PLAN**

*“RPA has enhanced our mutual and valued relationship by providing professional services that completely met the County’s quality and schedule expectations.”*

~ Christopher M. Plumb, AICP  
MCDOT

**GRIC District 3 Housing Project**

*“...this submittal has been very well done and the plans are of very high quality, thorough and complete. My compliments to Ritoch-Powell...”*

~ Michael G. Rhodes, PE  
Civil Engineer/Engineering  
Division Supervisor  
Gila River Indian Community

**DONEY PARK RENEWABLE ENERGY SITE**

*“They provided leadership and engineering guidance in immeasurable ways to ensure the project was a success.”*

Cyndi Newman, PE  
Project Manager Consultant  
Arizona Public Service

**SAHUARO RANCH PARK SPORTS COMPLEX IMPROVEMENTS PROJECT**

*“Ritoch-Powell & Associates exhibited exceptional expertise during the park assessment, design, and construction administration of the project. They continually communicated concerns with City representatives and always provided viable alternatives”*

~ Mike Gregory  
Project Coordinator  
City of Glendale

**SR 303L PEORIA TO WADDELL**

*“As expected, RPA’s service was exemplary throughout the design of the project.”*

~ Steve Beasley  
Transportation Engineer Mgr.Valley  
Project Management  
ADOT



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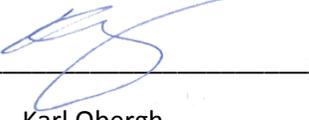
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7. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

a. Percentage of Total Work Attributable to State, Federal and Municipal Government Work:	80%
b. Percentage of Total Work Attributable to Non-Government Work:	20%

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

Signature:  \_\_\_\_\_

Date: December 30, 2014 \_\_\_\_\_

Name: Karl Obergh \_\_\_\_\_

Title: President and CEO \_\_\_\_\_