



Offer and Acceptance

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

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

PAGE
1

Offeror: EIC Engineers, LLC

OF
1

OFFER

TO THE STATE OF ARIZONA:

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

EIC Engineers, LLC

Company Name

7328 W. Deer Valey Road

Address

Scottsdale

AZ

85255

City

State

Zip

vahid@eicengineers.net

Contact Email Address

Signature of Person Authorized to Sign Offer

Vahid Bagheri

Printed Name

Principal

Title

Phone: 480-242-4478 x113

Fax: _____

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

1. The submission of the Offer did not involve collusion or other anticompetitive practices.
2. The Offeror shall not discriminate against any employee or applicant for employment in violation of Federal Executive Order 11246, State Executive Order 2009-9 or A.R.S. §§ 41-1461 through 1465.
3. The Offeror has not given, offered to give, nor intends to give at any time hereafter any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a public servant in connection with the submitted offer. Failure to provide a valid signature affirming the stipulations required by this clause shall result in rejection of the offer. Signing the offer with a false statement shall void the offer, any resulting contract and may be subject to legal remedies provided by law.
4. The Offeror certifies that the above referenced organization IS/ IS NOT a small business with less than 100 employees or has gross revenues of \$4 million or less.

ACCEPTANCE OF OFFER

The Offer is hereby accepted.

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

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

The effective date of the Contract is March 1, 2016

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

State of Arizona

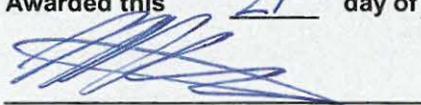
Awarded this

29

day of

February

2016


Procurement Officer



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

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DEFINITIONS

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

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

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

Firm: Defined in ARS § 32-101(B.19.).

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

SPECIFIC INSTRUCTIONS:

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



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



ATTACHMENT I – General Qualifications

**ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
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8. **Authorized Representative.** An authorized representative of the firm or branch office must sign and date the completed form. Signing attests that the information provided is current and factual. Provide the name and title of the authorized representative who signed the form.

List of Disciplines (Function Codes) for Question 2

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

List of Experience Categories (Profile Codes for Question 3)

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



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

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



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(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:	EIC Engineers, LLC
b. FIRM (OR BRANCH OFFICE) STREET:	7328 E. Deer Valley Road
c. FIRM (OR BRANCH OFFICE) CITY:	Scottsdale
d. FIRM (OR BRANCH OFFICE) STATE:	AZ
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85255
f. YEAR ESTABLISHED:	2004
(g1). OWNERSHIP - TYPE:	LLC
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	Small Business
h. POINT OF CONTACT NAME AND TITLE:	Vahid Bagheri
i. POINT OF CONTACT TELEPHONE NUMBER:	480-634-4130
j. POINT OF CONTACT E-MAIL ADDRESS:	vahid@eicengineers.net
k. NAME OF FIRM (If block 1a is a branch office):	Name of firm same as in Block 1a



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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
Electrical Engineer	P=5 S=1	5	
CADD Technician	P=1 S=1	1	
Project Manager	P=1	1	
Control Systems Engineer	P=1 S=1	1	
Total		8	0



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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)
18	Automation; Controls; Instrumentation	3
12	Controls and Electronics Engineer	2
10	Electrical Studies and Design	2
6	Energy / Water Auditing Savings	1
5	Energy Conservation; New Energy Sources	1
5	Value Analysis; Life-Cycle Costing	1
2	Waste Water Treatment Facility	1
2	Water Supply; Treatment and Distribution	2

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. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
Vahid Bagheri	Electrical Engineer	1. TOTAL 25	2. WITH CURRENT FIRM 12
d. LOCATION <i>(City and State)</i> 7328 E Deer valley Road Scottsdale AZ 85255			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i>		f. PROFESSIONAL TRAINING - REGISTRATIONS	
BSEE		Registered Professional Electrical Engineer (Arizona #33468)	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>			
MBA			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	City of Phoenix, AZ – 91st Avenue Wastewater Treatment Plant – Electrical Rehabilitation and Replacement	2014	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE EIC Engineers performed several electrical and I&C rehabilitation and replacement projects. The efforts included field investigations, equipment audit, design of the power distribution equipment and control panels, and complete construction phase services.		
		<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	City of Phoenix, AZ – 91st Avenue Wastewater Treatment Plant, Job Order Contracting Electrical, Instrumentation, and Control Design and Construction Phase Services	2014	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE EIC Engineers performed several electrical and I&C rehabilitation and replacement projects. The efforts included field investigations, equipment audit, design of the power distribution equipment and control panels, and complete construction phase services.		
		<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	City of Phoenix – 91st Avenue Wastewater Treatment Plant – Electrical, Instrumentation and Control Inspection Services	2014	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical, Instrumentation and Control Senior Supervisor providing professional services for various design and construction projects associated with the 91st Avenue WWTP. The services provided included: coordination, scheduling, planning, communications, review and comment development for design documents, design review meeting coordination and facilitation, equipment and material submittals and shop drawings, vendor equipment operation and maintenance manuals, standard operating procedures and training documents, attendance and participation in design review, field investigation services, progress and MOPO meetings, electrical, instrumentation and control systems oversight, factory acceptance testing, instrumentation calibrations and loop checks, electrical ground system testing, local control panel design and participation in the Process Control and Electrical Systems Standards Committee.		
		<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	City of Phoenix, AZ – Sewage Lift Station No. 48 – Electrical Rehabilitation and Replacement – In Progress	In Progress	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE EIC Engineers performed electrical and instrumentation & Control rehabilitation and replacement of existing equipment. The efforts included field investigations, equipment audit, design of the power distribution equipment, and control panels. This lift station is has to remain in operation during the construction phase. Thus, temporary electrical power distribution and control during construction phase is of utmost importance.		
		<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	City of Phoenix, AZ – 23rd Avenue Wastewater Treatment Plant – Job Order Contracting	2015	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Provided design engineering services include: Performing field investigations, gathering existing facility drawings, engineering electrical power distribution, designing instrumentation & control systems, and assisting in obtaining construction permits. The CA&I phase services include: Reviewing submittal and shop drawings, answering RFIs (Request For Information), issuing design clarifications, reviewing Operating & maintenance manuals, creating record drawings, observing testing tasks, assisting with startup activities, commissioning, and providing construction installation inspections.		
		<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 Ed Lhota	b. ROLE IN THIS CONTRACT Electrical Engineer and Control Systems Engineer	c. YEARS EXPERIENCE	
		2. TOTAL 25	2. WITH CURRENT FIRM 11
d. LOCATION <i>(City and State)</i> 7328 E Deer valley Road Scottsdale AZ 85255			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BSEE		f. PROFESSIONAL TRAINING - REGISTRATIONS	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Phoenix, AZ – 91st Avenue Wastewater Treatment Plant – Electrical Rehabilitation and Replacement	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE EIC Engineers performed several electrical and I&C rehabilitation and replacement projects. The efforts included field investigations, equipment audit, design of the power distribution equipment and control panels, and complete construction phase services.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Phoenix, AZ – 91st Avenue Wastewater Treatment Plant, Job Order Contracting Electrical, Instrumentation, and Control Design and Construction Phase Services	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE EIC Engineers performed several electrical and I&C rehabilitation and replacement projects. The efforts included field investigations, equipment audit, design of the power distribution equipment and control panels, and complete construction phase services.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Phoenix – 91st Avenue Wastewater Treatment Plant – Electrical, Instrumentation and Control Inspection Services	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical, Instrumentation and Control Senior Supervisor providing professional services for various design and construction projects associated with the 91st Avenue WWTP. The services provided included: coordination, scheduling, planning, communications, review and comment development for design documents, design review meeting coordination and facilitation, equipment and material submittals and shop drawings, vendor equipment operation and maintenance manuals, standard operating procedures and training documents, attendance and participation in design review, field investigation services, progress and MOPO meetings, electrical, instrumentation and control systems oversight, factory acceptance testing, instrumentation calibrations and loop checks, electrical ground system testing, local control panel design and participation in the Process Control and Electrical Systems Standards Committee.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Phoenix, AZ – Sewage Lift Station No. 48 – Electrical Rehabilitation and Replacement – In Progress	(2) YEAR COMPLETED	
		Professional Services In Progress	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE EIC Engineers performed electrical and instrumentation & Control rehabilitation and replacement of existing equipment. The efforts included field investigations, equipment audit, design of the power distribution equipment, and control panels. This lift station is has to remain in operation during the construction phase. Thus, temporary electrical power distribution and control during construction phase is of utmost importance.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Phoenix, AZ – 23rd Avenue Wastewater Treatment Plant – Job Order Contracting	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Provided design engineering services include: Performing field investigations, gathering existing facility drawings, engineering electrical power distribution, designing instrumentation & control systems, and assisting in obtaining construction permits. The CA&I phase services include: Reviewing submittal and shop drawings, answering RFIs (Request For Information), issuing design clarifications, reviewing Operating & maintenance manuals, creating record drawings, observing testing tasks, assisting with startup activities, commissioning, and providing construction installation inspections.	<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 Teona Miller	b. ROLE IN THIS CONTRACT Electrical Engineer	c. YEARS EXPERIENCE	
		3. TOTAL 12	2. WITH CURRENT FIRM 11
d. LOCATION (City and State) 7328 E Deer valley Road Scottsdale AZ 85255			
e. EDUCATION (DEGREE AND SPECIALIZATION) BSEE		f. PROFESSIONAL TRAINING - REGISTRATIONS Registered Professional Electrical Engineer (Arizona #41987)	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) City of Phoenix – Remote Facilities (Distribution) Water Remote Facilities Electrical Engineering Design Services Electrical, Instrumentation, and Control Design and Construction Phase Services	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE EIC Engineers have been providing electrical, instrumentation, and control (I&C) design and construction phase services for various booster pump stations, well sites, and Pressure Reducing Valve (PRV) sites for the last year and a half. These projects require detailed knowledge of the Remote Facilities including power distribution standards, instrumentation requirements specific to Remote facilities, and Control requirements applicable to Remote facilities. In addition, EIC understands and is intimately familiar with the City's I&C standards and requirements as it applies to Remote Facilities.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (City and State) City of Phoenix, AZ – 91st Avenue Wastewater Treatment Plant, Job Order Contracting Electrical, Instrumentation, and Control Design and Construction Phase Services	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE EIC Engineers performed several electrical and I&C rehabilitation and replacement projects. The efforts included field investigations, equipment audit, design of the power distribution equipment and control panels, and complete construction phase services.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (City and State) City of Phoenix – 91st Avenue Wastewater Treatment Plant – Electrical, Instrumentation and Control Inspection Services	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Electrical, Instrumentation and Control Senior Supervisor providing professional services for various design and construction projects associated with the 91st Avenue WWTP. The services provided included: coordination, scheduling, planning, communications, review and comment development for design documents, design review meeting coordination and facilitation, equipment and material submittals and shop drawings, vendor equipment operation and maintenance manuals, standard operating procedures and training documents, attendance and participation in design review, field investigation services, progress and MOPO meetings, electrical, instrumentation and control systems oversight, factory acceptance testing, instrumentation calibrations and loop checks, electrical ground system testing, local control panel design and participation in the Process Control and Electrical Systems Standards Committee.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (City and State) City of Phoenix, AZ – Sewage Lift Station No. 48 – Electrical Rehabilitation and Replacement – In Progress	(2) YEAR COMPLETED	
		Professional Services In Progress	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE EIC Engineers performed electrical and instrumentation & Control rehabilitation and replacement of existing equipment. The efforts included field investigations, equipment audit, design of the power distribution equipment, and control panels. This lift station is has to remain in operation during the construction phase. Thus, temporary electrical power distribution and control during construction phase is of utmost importance.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION (City and State) City of Phoenix, AZ – 23rd Avenue Wastewater Treatment Plant – Job Order Contracting	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided design engineering services include: Performing field investigations, gathering existing facility drawings, engineering electrical power distribution, designing instrumentation & control systems, and assisting in obtaining construction permits. The CA&I phase services include: Reviewing submittal and shop drawings, answering RFIs (Request For Information), issuing design clarifications, reviewing Operating & maintenance manuals, creating record drawings, observing testing tasks, assisting with startup activities, commissioning, and providing construction installation inspections.	<input checked="" type="checkbox"/> Check if project performed with current firm	



ATTACHMENT I – General Qualifications

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

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

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

a. NAME		b. ROLE IN THIS CONTRACT		c. YEARS EXPERIENCE	
Robert Bradfield		Control Systems Engineer		4. TOTAL 25	2. WITH CURRENT FIRM 5
d. LOCATION <i>(City and State)</i> 7328 E Deer valley Road Scottsdale AZ 85255					
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS CIT			f. PROFESSIONAL TRAINING - REGISTRATIONS		
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> MBA					

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Phoenix, AZ – 91st Avenue Wastewater Treatment Plant – Electrical Rehabilitation and Replacement	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE EIC Engineers performed several electrical and I&C rehabilitation and replacement projects. The efforts included field investigations, equipment audit, design of the power distribution equipment and control panels, and complete construction phase services.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Phoenix, AZ – 91st Avenue Wastewater Treatment Plant, Job Order Contracting Electrical, Instrumentation, and Control Design and Construction Phase Services	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE EIC Engineers performed several electrical and I&C rehabilitation and replacement projects. The efforts included field investigations, equipment audit, design of the power distribution equipment and control panels, and complete construction phase services.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Phoenix – 91st Avenue Wastewater Treatment Plant – Electrical, Instrumentation and Control Inspection Services	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical, Instrumentation and Control Senior Supervisor providing professional services for various design and construction projects associated with the 91st Avenue WWTP. The services provided included: coordination, scheduling, planning, communications, review and comment development for design documents, design review meeting coordination and facilitation, equipment and material submittals and shop drawings, vendor equipment operation and maintenance manuals, standard operating procedures and training documents, attendance and participation in design review, field investigation services, progress and MOPO meetings, electrical, instrumentation and control systems oversight, factory acceptance testing, instrumentation calibrations and loop checks, electrical ground system testing, local control panel design and participation in the Process Control and Electrical Systems Standards Committee.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Phoenix, AZ – Sewage Lift Station No. 48 – Electrical Rehabilitation and Replacement – In Progress	(2) YEAR COMPLETED	
		Professional Services In Progress	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE EIC Engineers performed electrical and instrumentation & Control rehabilitation and replacement of existing equipment. The efforts included field investigations, equipment audit, design of the power distribution equipment, and control panels. This lift station is has to remain in operation during the construction phase. Thus, temporary electrical power distribution and control during construction phase is of utmost importance.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Phoenix, AZ – 23rd Avenue Wastewater Treatment Plant – Job Order Contracting	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Provided design engineering services include: Performing field investigations, gathering existing facility drawings, engineering electrical power distribution, designing instrumentation & control systems, and assisting in obtaining construction permits. The CA&I phase services include: Reviewing submittal and shop drawings, answering RFIs (Request For Information), issuing design clarifications, reviewing Operating & maintenance manuals, creating record drawings, observing testing tasks, assisting with startup activities, commissioning, and providing construction installation inspections.	<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 Jason Nuss	b. ROLE IN THIS CONTRACT Electrical Engineer	c. YEARS EXPERIENCE	
		5. TOTAL 14	2. WITH CURRENT FIRM 11

d. LOCATION *(City and State)* 7328 E Deer valley Road Scottsdale AZ 85255

e. EDUCATION *(DEGREE AND SPECIALIZATION)*
AAS

f. PROFESSIONAL TRAINING - REGISTRATIONS

g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*
Electric Motor Controls Specialist training
Electric League of Arizona: Electrical Codes & Inspections I & II
International Association of Electrical Inspectors, (IAEI)

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	City of Phoenix – 91st Avenue Wastewater Treatment Plant Support Systems Upgrade (Blower Buildings 1 and 3 Electrical Equipment Rehabilitation)	2014	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE During the predesign process, EIC Engineers performed site audits and gathered pertinent information about the existing conditions. The findings were reviewed with the Plant operational and maintenance staff in order to find the best approach to achieve the design requirements. Options were presented to the project management team describing existing issues, methods of solving them, possible construction issues, MOPO requirements, and the cost impact. After selection of the desired option, EIC Engineers designed the contract documents. Prior to finalization of the drawings and specifications, the documents were thoroughly reviewed with the Plant staff, project management team, and the City's I&C inspectors to make sure that all concerns are in the final documents.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	City of Phoenix, AZ – 91st Avenue Wastewater Treatment Plant, Job Order Contracting Electrical, Instrumentation, and Control Design and Construction Phase Services	2014	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE EIC Engineers performed several electrical and I&C rehabilitation and replacement projects. The efforts included field investigations, equipment audit, design of the power distribution equipment and control panels, and complete construction phase services.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	City of Phoenix – 91st Avenue Wastewater Treatment Plant – Electrical, Instrumentation and Control Inspection Services	2014	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical, Instrumentation and Control Senior Supervisor providing professional services for various design and construction projects associated with the 91st Avenue WWTP. The services provided included: coordination, scheduling, planning, communications, review and comment development for design documents, design review meeting coordination and facilitation, equipment and material submittals and shop drawings, vendor equipment operation and maintenance manuals, standard operating procedures and training documents, attendance and participation in design review, field investigation services, progress and MOPO meetings, electrical, instrumentation and control systems oversight, factory acceptance testing, instrumentation calibrations and loop checks, electrical ground system testing, local control panel design and participation in the Process Control and Electrical Systems Standards Committee.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	City of Phoenix, AZ – Sewage Lift Station No. 48 – Electrical Rehabilitation and Replacement – In Progress	In Progress	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE EIC Engineers performed electrical and instrumentation & Control rehabilitation and replacement of existing equipment. The efforts included field investigations, equipment audit, design of the power distribution equipment, and control panels. This lift station is has to remain in operation during the construction phase. Thus, temporary electrical power distribution and control during construction phase is of utmost importance.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	City of Phoenix, AZ – 23rd Avenue Wastewater Treatment Plant – Job Order Contracting	2015	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Provided design engineering services include: Performing field investigations, gathering existing facility drawings, engineering electrical power distribution, designing instrumentation & control systems, and assisting in obtaining construction permits. The CA&I phase services include: Reviewing submittal and shop drawings, answering RFIs (Request For Information), issuing design clarifications, reviewing Operating & maintenance manuals, creating record drawings, observing testing tasks, assisting with startup activities, commissioning, and providing construction installation inspections.	<input checked="" type="checkbox"/> Check if project performed with current firm	



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

a. NAME Carl Caporali		b. ROLE IN THIS CONTRACT Electrical Engineer		c. YEARS EXPERIENCE	
		6. TOTAL 20	2. WITH CURRENT FIRM 2		
d. LOCATION <i>(City and State)</i> 7328 E Deer valley Road Scottsdale AZ 85255					
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BSEE Electro-mechanical			f. PROFESSIONAL TRAINING - REGISTRATIONS		
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> A.S. in Instrumentation/ Maintenance Technology, Butler County Community College Member of Tau Alpha Pi, National Honor Society of Engineering Technologies					

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Phoenix, AZ – 91st Avenue Wastewater Treatment Plant – Electrical Rehabilitation and Replacement	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE EIC Engineers performed several electrical and I&C rehabilitation and replacement projects. The efforts included field investigations, equipment audit, design of the power distribution equipment and control panels, and complete construction phase services.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Phoenix, AZ – 91st Avenue Wastewater Treatment Plant, Job Order Contracting Electrical, Instrumentation, and Control Design and Construction Phase Services	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE EIC Engineers performed several electrical and I&C rehabilitation and replacement projects. The efforts included field investigations, equipment audit, design of the power distribution equipment and control panels, and complete construction phase services.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Phoenix – 91st Avenue Wastewater Treatment Plant – Electrical, Instrumentation and Control Inspection Services	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical, Instrumentation and Control Senior Supervisor providing professional services for various design and construction projects associated with the 91st Avenue WWTP. The services provided included: coordination, scheduling, planning, communications, review and comment development for design documents, design review meeting coordination and facilitation, equipment and material submittals and shop drawings, vendor equipment operation and maintenance manuals, standard operating procedures and training documents, attendance and participation in design review, field investigation services, progress and MOPO meetings, electrical, instrumentation and control systems oversight, factory acceptance testing, instrumentation calibrations and loop checks, electrical ground system testing, local control panel design and participation in the Process Control and Electrical Systems Standards Committee.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Phoenix, AZ – Sewage Lift Station No. 48 – Electrical Rehabilitation and Replacement – In Progress	(2) YEAR COMPLETED	
		Professional Services In Progress	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE EIC Engineers performed electrical and instrumentation & Control rehabilitation and replacement of existing equipment. The efforts included field investigations, equipment audit, design of the power distribution equipment, and control panels. This lift station is has to remain in operation during the construction phase. Thus, temporary electrical power distribution and control during construction phase is of utmost importance.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Phoenix, AZ – 23rd Avenue Wastewater Treatment Plant – Job Order Contracting	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Provided design engineering services include: Performing field investigations, gathering existing facility drawings, engineering electrical power distribution, designing instrumentation & control systems, and assisting in obtaining construction permits. The CA&I phase services include: Reviewing submittal and shop drawings, answering RFIs (Request For Information), issuing design clarifications, reviewing Operating & maintenance manuals, creating record drawings, observing testing tasks, assisting with startup activities, commissioning, and providing construction installation inspections.	<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 Fernando Moraila	b. ROLE IN THIS CONTRACT Electrical Engineer	c. YEARS EXPERIENCE	
		7. TOTAL 5	2. WITH CURRENT FIRM 2
d. LOCATION <i>(City and State)</i> 7328 E Deer valley Road Scottsdale AZ 85255			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BSEE		f. PROFESSIONAL TRAINING - REGISTRATIONS	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Phoenix, AZ – 91st Avenue Wastewater Treatment Plant – Electrical Rehabilitation and Replacement	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE EIC Engineers performed several electrical and I&C rehabilitation and replacement projects. The efforts included field investigations, equipment audit, design of the power distribution equipment and control panels, and complete construction phase services.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Phoenix, AZ – 91st Avenue Wastewater Treatment Plant, Job Order Contracting Electrical, Instrumentation, and Control Design and Construction Phase Services	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE EIC Engineers performed several electrical and I&C rehabilitation and replacement projects. The efforts included field investigations, equipment audit, design of the power distribution equipment and control panels, and complete construction phase services.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Phoenix – 91st Avenue Wastewater Treatment Plant – Electrical, Instrumentation and Control Inspection Services	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical, Instrumentation and Control Senior Supervisor providing professional services for various design and construction projects associated with the 91st Avenue WWTP. The services provided included: coordination, scheduling, planning, communications, review and comment development for design documents, design review meeting coordination and facilitation, equipment and material submittals and shop drawings, vendor equipment operation and maintenance manuals, standard operating procedures and training documents, attendance and participation in design review, field investigation services, progress and MOPO meetings, electrical, instrumentation and control systems oversight, factory acceptance testing, instrumentation calibrations and loop checks, electrical ground system testing, local control panel design and participation in the Process Control and Electrical Systems Standards Committee.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Phoenix, AZ – Sewage Lift Station No. 48 – Electrical Rehabilitation and Replacement – In Progress	(2) YEAR COMPLETED	
		Professional Services In Progress	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE EIC Engineers performed electrical and instrumentation & Control rehabilitation and replacement of existing equipment. The efforts included field investigations, equipment audit, design of the power distribution equipment, and control panels. This lift station is has to remain in operation during the construction phase. Thus, temporary electrical power distribution and control during construction phase is of utmost importance.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Phoenix, AZ – 23rd Avenue Wastewater Treatment Plant – Job Order Contracting	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Provided design engineering services include: Performing field investigations, gathering existing facility drawings, engineering electrical power distribution, designing instrumentation & control systems, and assisting in obtaining construction permits. The CA&I phase services include: Reviewing submittal and shop drawings, answering RFIs (Request For Information), issuing design clarifications, reviewing Operating & maintenance manuals, creating record drawings, observing testing tasks, assisting with startup activities, commissioning, and providing construction installation inspections.	<input checked="" type="checkbox"/> Check if project performed with current firm	



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

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

a. NAME Bruce Bence		b. ROLE IN THIS CONTRACT CADD Technician		c. YEARS EXPERIENCE	
		8. TOTAL 25	2. WITH CURRENT FIRM 5		
d. LOCATION (City and State) 7328 E Deer valley Road Scottsdale AZ 85255					
e. EDUCATION (DEGREE AND SPECIALIZATION) Associates Degree in mechanical and computerized design (CAD).			f. PROFESSIONAL TRAINING - REGISTRATIONS		
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Professional Development in Generator training. Code class NEC-2008. Trained in and skilled in AutoCAD 10 thru 2013, Solid Works 2006, COSMOS EFA, Pathtrace, Coax CAD, and MS Office					

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) City of Phoenix, AZ – 91st Avenue Wastewater Treatment Plant – Electrical Rehabilitation and Replacement	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE EIC Engineers performed several electrical and I&C rehabilitation and replacement projects. The efforts included field investigations, equipment audit, design of the power distribution equipment and control panels, and complete construction phase services.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (City and State) City of Phoenix, AZ – 91st Avenue Wastewater Treatment Plant, Job Order Contracting Electrical, Instrumentation, and Control Design and Construction Phase Services	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE EIC Engineers performed several electrical and I&C rehabilitation and replacement projects. The efforts included field investigations, equipment audit, design of the power distribution equipment and control panels, and complete construction phase services.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (City and State) City of Phoenix – 91st Avenue Wastewater Treatment Plant – Electrical, Instrumentation and Control Inspection Services	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Electrical, Instrumentation and Control Senior Supervisor providing professional services for various design and construction projects associated with the 91st Avenue WWTP. The services provided included: coordination, scheduling, planning, communications, review and comment development for design documents, design review meeting coordination and facilitation, equipment and material submittals and shop drawings, vendor equipment operation and maintenance manuals, standard operating procedures and training documents, attendance and participation in design review, field investigation services, progress and MOPO meetings, electrical, instrumentation and control systems oversight, factory acceptance testing, instrumentation calibrations and loop checks, electrical ground system testing, local control panel design and participation in the Process Control and Electrical Systems Standards Committee.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (City and State) City of Phoenix, AZ – Sewage Lift Station No. 48 – Electrical Rehabilitation and Replacement – In Progress	(2) YEAR COMPLETED	
		Professional Services In Progress	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE EIC Engineers performed electrical and instrumentation & Control rehabilitation and replacement of existing equipment. The efforts included field investigations, equipment audit, design of the power distribution equipment, and control panels. This lift station is has to remain in operation during the construction phase. Thus, temporary electrical power distribution and control during construction phase is of utmost importance.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION (City and State) City of Phoenix, AZ – 23rd Avenue Wastewater Treatment Plant – Job Order Contracting	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided design engineering services include: Performing field investigations, gathering existing facility drawings, engineering electrical power distribution, designing instrumentation & control systems, and assisting in obtaining construction permits. The CA&I phase services include: Reviewing submittal and shop drawings, answering RFIs (Request For Information), issuing design clarifications, reviewing Operating & maintenance manuals, creating record drawings, observing testing tasks, assisting with startup activities, commissioning, and providing construction installation inspections.	<input checked="" type="checkbox"/> Check if project performed with current firm	



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**. 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	
City of Phoenix, AZ – Remote Facilities (Distribution) Water Remote Facilities Electrical Engineering Design Services Electrical, Instrumentation, and Control Design and Construction Phase Services		PROFESSIONAL SERVICES In Progress	CONSTRUCTION <i>(If applicable)</i>
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT	
City of Phoenix	\$3,000,000	\$3,000,000	

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

EIC Engineers have been providing electrical, instrumentation, and control (I&C) design and construction phase services for various booster pump stations, well sites, and Pressure Reducing Valve (PRV) sites for the last year and a half. These projects require detailed knowledge of the Remote Facilities including power distribution standards, instrumentation requirements specific to Remote facilities, and Control requirements applicable to Remote facilities. In addition, EIC understands and is intimately familiar with the City's I&C standards and requirements as it applies to Remote Facilities.

These projects included electrical service equipment, motor control centers, booster pumps control, compressors and hydro pneumatic tanks controls, and pressure, flow, and level instrumentation. Many sites required replacement of the existing HSQ Remote Terminal Units (RTU) system with the City's Modicon Programmable Logic Controller (PLC). The electrical and I&C designs were engineered in accordance with the City of Phoenix and Remote facilities standards. Drawings and specifications were reviewed and coordinated with City's engineers to assure compliance with the City's requirements.

EIC Engineers was responsible for electrical and I&C design and construction administration services on the following projects (partial list):

- 4A-B3 Booster Pump Station
- 4A-B7 Booster Pump Station and Well
- 4E-B1 Booster Pump Station
- 4N-B1 Booster Pump Station
- 6A-B1 Booster Pump Station and Well
- 6A-B2 Booster Pump Station and Well
- 7A-B1 Booster Pump Station and Well
- 8A-B1 Booster Pump Station and Well
- 8A-B2 Booster Pump Station and Well
- Well 289
- Well 290
- 5kV Special Inspections



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**. 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> City of Phoenix, AZ – Remote Facilities (Distribution) Job Order Contracting (JOC) Electrical, Instrumentation, and Control Design and Construction Phase Services	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES In Progress	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER City of Phoenix	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$10,000,000	e. TOTAL COST OF PROJECT \$10,000,000
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g. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

EIC Engineers have been providing electrical, instrumentation, and control (I&C) design and construction phase services for Job Order Contracts for the City for the last 5 years. These projects require detailed knowledge of the Remote Facilities including booster pump stations, wells, reservoirs, chlorination sites, and pressure reducing valves. In addition, EIC understands and is intimately familiar with the City's I&C standards and requirements at Remote Facilities. These projects included electrical service equipment, motor control centers, booster pumps, compressors, hydro pneumatic tanks, and pressure, flow, and level instrumentation. Many sites required replacement of the existing HSQ Remote Terminal Units (RTU) system with the City's Modicon Programmable Logic Controller (PLC). The electrical and I&C design were engineered in accordance with the City of Phoenix and Remote facilities standards. Drawings and specifications were reviewed and coordinated with City's engineers to assure compliance with the City's requirements.

EIC Engineers was responsible for electrical and I&C design and construction administration services on the following projects (partial list):

- 1-B3 Rio Salado BPS RTU Replacement & Control
- 1-B3 Rio Salado BPS Arc Flash Rehab
- 2S-ES1 Lower Mineral Road BPS
- 3SE-ES2 Mountain Park Ranch BPS
- 3SE-GS1 Ray Road Reservoir
- 4A-B2 North Mountain Park BPS
- 4A-ES4 Rose Garden Reservoir
- 4M-B1 Lower Cloud Croft BPS
- 4SC-B1 Foothills BPS
- 5A-B1 Sweetwater BPS
- 5B-B2 BPS
- 5G-B1 Desert Vista BPS
- 5K-B1 BPS
- 5L-B1 Wilson BPS
- 5L-ES1 Mummy Mountain BPS
- 6K-B1 BPS



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ADSP016-00005912**

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

**. 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	
City of Phoenix, AZ – 91st Avenue Wastewater Treatment Plant – Electrical Rehabilitation and Replacement		PROFESSIONAL SERVICES In Progress	CONSTRUCTION <i>(If applicable)</i>
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT	
City of Phoenix	\$1,000,000	\$31000,000	

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

During this project, EIC Engineers performed several electrical rehabilitation and replacement projects. The efforts included field investigations, equipment audit, as-building of the power distribution gear and control panels, design and construction phase services. The following is a list of the projects:

- Motor Control Center MCC-PE2-400 & AA
- Motor Control Center MCC-TT Replacement
- Plant 3 Transformer TT-400-B
- DAF Waste Activated Sludge VFDs
- Motor Control Center MCC-PE2-400
- Motor Control Center MCC-AA
- Motor Control Center MCC-BB2 Replacement
- 5kV Switchgear BB3 Replacement
- STF VFD Replacement
- SHF Schwing Pump PLC upgrade to Modicon

This experience has provided EIC Engineers with practical insight into specific needs and problems particular to 91st Avenue Wastewater Treatment Plant such as:

- The corrosive effect of hydrogen sulfide on electronic equipment such as variable frequency drives (VFDs), solid state soft starts, Programmable Logic Controllers (PLCs), Remote Terminal Units (RTUs), instruments, and many others.
- The importance of power reliability achieved by dual-fed power distribution system
- Using Uninterruptible Power Supplies (UPS) for critical controls and instruments
- Particular Importance of Maintenance of Plant Operations (MOPOs)



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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	
City of Phoenix, AZ – 91st Avenue Wastewater Treatment Plant Support Systems Upgrade (Blower Buildings 1 and 3 Electrical Equipment Rehabilitation)	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
	2007	

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
City of Phoenix	\$3,000,000	\$3,000,000

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

During the predesign process, EIC Engineers performed site audits and gathered pertinent information about the existing conditions. The findings were reviewed with the Plant operational and maintenance staff in order to find the best approach to achieve the design requirements. Options were presented to the project management team describing existing issues, methods of solving them, possible construction issues, MOPO requirements, and the cost impact. After selection of the desired option, EIC Engineers designed the contract documents. Prior to finalization of the drawings and specifications, the documents were thoroughly reviewed with the Plant staff, project management team, and the City's I&C inspectors to make sure that all concerns are in the final documents. This work included design and construction at the following locations:

- Blower Building No. 1 Unit substation and medium voltage power distribution gear replacement. Project included the following electrical and I&C features:
 - 2000 kVA unit substation
 - Primary 1200 amp 4160 volt drawout switchgear
 - Secondary 3000 amp 480volt drawout switchgear
- Blower Building No. 3 Unit substation replacement and medium voltage switch overhaul. Project included the following electrical and I&C features:
 - 500kVA pad-mounted transformer
 - Relocation and overhaul of existing 4160 volt switches feeding all blowers
 - Secondary 1200 Amp 480volt drawout switchgear
 - 600 amp, 480 volt motor control center



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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	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
City of Phoenix, AZ – 91st Avenue Wastewater Treatment Plant, Job Order Contracting Electrical, Instrumentation, and Control Design and Construction Phase Services	2012	

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
City of Phoenix	\$3,000,000	\$3,000,000

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

These projects have provided EIC Engineers with actual and practical experience of working requirements at 91st Avenue Wastewater Treatment Plant. They have actual field experience and practical engineering know-how that applies to this plant and its unique requirements. This work included design and construction of the following equipment: Administration Building 5kv Substation and Power Distribution Rehabilitation (in progress). Project included removal of the existing 4160 volt switch, replacement of the existing 1000 kVA substation transformer, replacement of the existing 1200 amp/480 volt switchgear, and rehabilitation of transformer secondary 480 volt feeder system

- Digesters No.7 and 8 Transfer Pumps VFD Replacement, including replacement of two 125HP pump VFDs
- APS Discharge Valve Vault. Project included the a new service and power distribution of six motorized valves, all associated instrumentation and control, and PLC and PLC interface with COP and APS SCADA systems
- Administration, Operations, Solids Handling Facility, and Main Switchgear Buildings UPS Replacement
- And over 20 additional plant wide projects

The experience gained by EIC Engineers' staff performing the above projects has provided them with firsthand knowledge of the 91st Avenue Wastewater Treatment Plant. This knowledge includes the following:

- Primary 4160 volt electrical power distribution switchgear throughout the plant
- Unit substations and their transformers at central power distribution hubs
- Secondary 480 volt electrical power distribution switchgear/switchboards/load centers
- 4160 and 480 volt motor control centers
- Variable frequency drives, 6-pulse and 18-pulse technologies
- Primary and secondary power distribution systems



6. ADDITIONAL INFORMATION

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

EIC Engineers, LLC (EIC Engineers) founded in March 2004, is an Electrical, Instrumentation, and Control (I&C) engineering company. Our engineers, designers, and technicians have successfully completed projects performing field evaluations, equipment audits, electrical tests, studies, design and construction phase services. The additional specific categories and services are further described below:

Instrumentation and Controls Integration

EIC Engineers has extensive experience in selection and installation of flow, level, temperature, and pressure transmitters in various operating conditions. In addition, our staff is proficient in selection of analyzing devices such as chlorine, pH/ORP, TSS/turbidity, and dissolved oxygen in various treatment processes. We are thoroughly familiar with the City's instrumentation and control standards and requirements.

- Val Vista Water Treatment Plant Major Electrical Rehabilitation and Replacement
- Remote Facilities - Distribution Electrical and I&C Design and Construction (50 boosters, wells, and PRV sites)
- 23rd Avenue Wastewater Treatment Plant - Job Order Contracting (JOC)
- 91st Avenue Wastewater Treatment Plant - JOC
- 91st Avenue Wastewater Treatment Plant Electrical Rehabilitation and Replacement

SCADA and Control Systems

EIC Engineers has provided automation and control engineering services for a variety of projects at Water Services Department. These services also include designing, testing, and starting up Programmable Logic Controllers (PLCs such as Modicon and Allen-Bradley) and Distributed Control Systems (DCS such as City's UCOS system).

- Remote Facilities - Distribution - Over 50 Booster Pumps Stations, Wells, Reservoirs, and Pressure Reducing Valve sites for the Remote Facilities including SCADA
- 24th Street Water Treatment Plant - Control Optimization Studies
- Union Hills Water Treatment Plant - Control Optimization Studies
- Val Vista Water Treatment Plant Major Electrical Rehabilitation and Replacement
- Cave Creek Water Reclamation Plant - Control Optimization Studies
- 23rd Avenue Wastewater Treatment Plant - JOC
- 91st Avenue Wastewater Treatment Plant - JOC



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Electrical and Electrical Engineering

EIC Engineers has comprehensive experience in power distribution equipment including switchgears, transformers, motor control centers, variable frequency drives (VFDs), solid state soft starters, and distribution feeders (both 5kV and 480 volt systems). The following projects are a few examples of the electrical design we have performed:

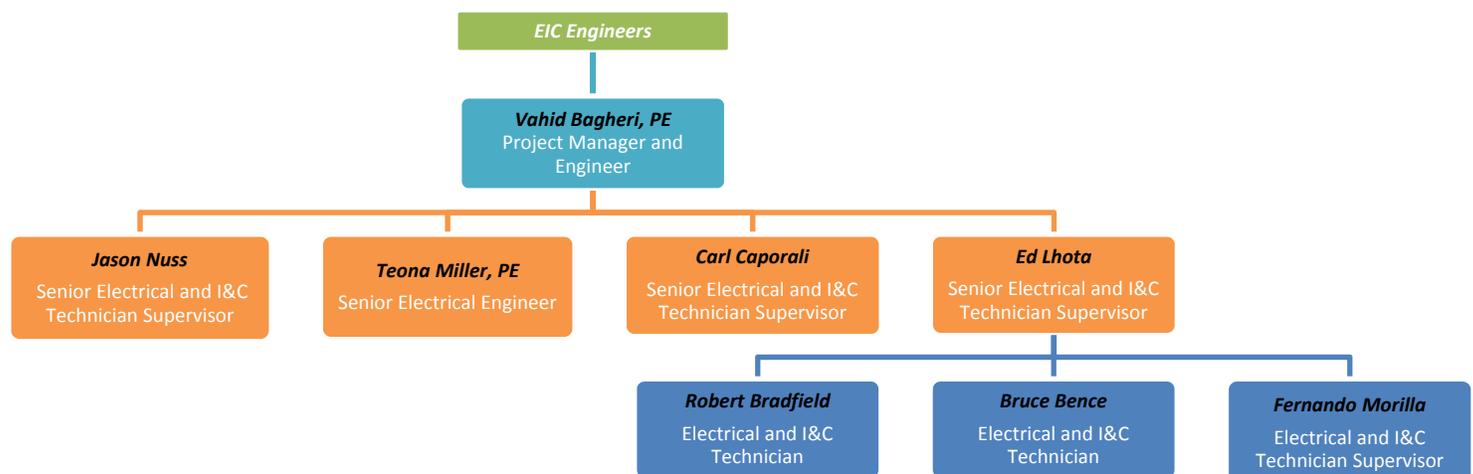
- Val Vista Water Treatment Plant Major Electrical Rehabilitation and Replacement
- JOC Projects at Union Hills Water Treatment Plant and Cave Creek Water Reclamation Plant
- JOC Projects at 23rd and 91st Avenue Wastewater Treatment Plants
- 91st Avenue Wastewater Treatment Plant Electrical Rehabilitation and Replacement
- 91 WWTP Blower Building No. 1 Unit substation and Medium Voltage switchgear replacement - Blower Building No. 2 Medium Voltage MCC and switchgear Replacement - Blower Building No. 3 Unit substation

Energy Management for Water facilities

EIC Engineers have performed energy efficiency tests and studies on numerous pumps and blowers in water and wastewater treatment plants. These projects include voltage, amperage, kilo-watt (KW), kilo-volt-amps (KVA), kilo-volt-amps reactive (KVAR), and power factor, and harmonics readings for all three phases and neutral at various sites. These studies include calculations to indicate actual wire-to-water and wire-to-air efficiencies of the individual equipment as well as the system.

- City of Flagstaff Rio and Wild Cat WWTPs: Pump and Blower Efficiency Tests and Study (21 Pumps and 6 Blowers)
- City of Goodyear: Pumps and Blower Efficiency Tests and Study (6 Booster Pumps and 3 Blowers)
- City of Gilbert: Pumps Efficiency Tests and Study (A well pump and 4 Booster Pumps)
- Tucson Metro Water Company: Pumps and Blower Efficiency Tests and Study (A well pump and 7 booster pumps)
- Power Factor Correction (5kV, fixed) at Val Vista Water Treatment Plant
- Power Factor Correction (5kV, automatic) at Deer Valley Water Treatment Plant

Organizational Chart





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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:	90%
b.	Percentage of Total Work Attributable to Non-Government Work:	10%

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

Signature: Vahid Bagheri

Date: 12/21/2015

Name: VAHID BAGHERI

Title: Principal