



# Offer and Acceptance

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

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

PAGE  
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Offeror: Consultant Engineering

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.

#### Consultant Engineering, Inc.

Company Name

10625 North 25th Avenue, Ste. 200

Address

Phoenix,

AZ

85029

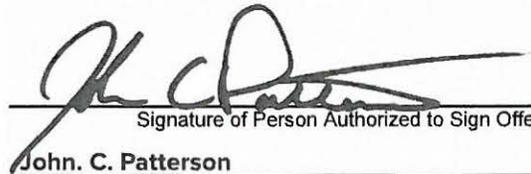
City

State

Zip

jpatterson@cei-az.com

Contact Email Address

  
Signature of Person Authorized to Sign Offer

John. C. Patterson

Printed Name

President

Title

Phone: 602.319.5678

Fax: 602.866.5085

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

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

1. Annual Request for Qualifications

a.	<b>FIRM</b> (OR BRANCH OFFICE ) NAME:	<b>Consultant Engineering, Inc.</b>
b.	FIRM (OR BRANCH OFFICE) STREET:	<b>10625 N. 25th Avenue, Suite 200</b>
c.	FIRM (OR BRANCH OFFICE) CITY:	<b>Phoenix</b>
d.	FIRM OR BRANCH OFFICE) STATE:	<b>Arizona</b>
e.	FIRM (OR BRANCH OFFICE) ZIP CODE:	<b>85029</b>
f.	YEAR ESTABLISHED	<b>1996</b>
g(1)	OWNERSHIP - TYPE	<b>Corporation (S-Corp)</b>
g(2)	OWNERSHIP - SMALL BUSINESS STATUS:	<b>SBE (City of Phoenix)</b>
h.	POINT OF CONTACT NAME AND TITLE:	<b>John C. Patterson, PE</b>
i.	POINT OF CONTACT TELEPHONE NUMBER:	<b>602.319.5678</b>
J.	POINT OF CONTACT E-MAIL ADDRESS	<b>jpatterson@cei-az.com</b>
k.	NAME OF FIRM (If block 1a is a branch office):	

a.	FIRM (OR <b>BRANCH OFFICE</b> ) NAME:	<b>Consultant Engineering, Inc.</b>
b.	FIRM (OR BRANCH OFFICE) STREET:	<b>2 E. Congress Street, Suite 900, PBM #121</b>
c.	FIRM (OR BRANCH OFFICE) CITY:	<b>Tucson</b>
d.	FIRM OR BRANCH OFFICE) STATE:	<b>Arizona</b>
e.	FIRM (OR BRANCH OFFICE) ZIP CODE:	<b>85701</b>
f.	YEAR ESTABLISHED	<b>1996</b>
g(1)	OWNERSHIP - TYPE	<b>Corporation (S-Corp)</b>
g(2)	OWNERSHIP - SMALL BUSINESS STATUS:	<b>SBE (City of Phoenix)</b>
h.	POINT OF CONTACT NAME AND TITLE:	<b>Tanya Kreuzer</b>
i.	POINT OF CONTACT TELEPHONE NUMBER:	<b>602.540.6842</b>
J.	POINT OF CONTACT E-MAIL ADDRESS	<b>tkreuzer@cei-az.com</b>
k.	NAME OF FIRM (If block 1a is a branch office):	<b>Consultant Engineering, Inc.</b>



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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
<b>Civil Engineer</b>	<b>P</b>	<b>13</b>	<b>1</b>
<b>Construction Manager</b>	<b>P</b>	<b>12</b>	<b>1</b>
<b>Construction Inspector</b>	<b>p</b>	<b>44</b>	<b>13</b>
<b>Landscape Architect</b>	<b>P</b>	<b>1</b>	
<b>Project Manager</b>	<b>P</b>	<b>1</b>	<b>1</b>
	<b>S</b>	<b>14</b>	<b>1</b>
<b>Total</b>	<b>P</b>	<b>71</b>	<b>16</b>
	<b>S</b>	<b>14</b>	<b>1</b>





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

a. NAME <b>Barry Brown, PE</b>	b. ROLE IN THIS CONTRACT <b>Senior Resident Engineer</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>34</b>	2. WITH CURRENT FIRM <b>19</b>
d. LOCATION (City and State) <b>Peoria, Arizona</b>			
e. EDUCATION (DEGREE AND SPECIALIZATION) <b>BS, Civil Engineering, University of Arizona, 1981</b>		f. PROFESSIONAL TRAINING - REGISTRATIONS <b>AZ Professional Engineer, #22187</b>	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)			

Barry Brown, a former ADOT Phoenix Construction Resident Engineer, has been a Senior Resident Engineer (SRE) with CEI since 1997. He has managed and supervised the construction administration of bridge, freeway, roadway, and utility projects with combined construction costs in the hundreds of millions of dollars for more than a decade. Extremely detailed in project management documentation and schedule maintenance, Barry has successfully managed projects for ADOT, the Maricopa County Department of Transportation (MCDOT), the Cities of Peoria and Douglas, and the Town of Gilbert. He possesses outstanding leadership skills in team management and is a gifted communicator whether engaged with clients, contractors, key stakeholders or the public.

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>US 191, Guthrie Bridge, Greenlee County, Arizona</b>	2009	2009
	(3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Sr. Resident Engineer/Project Manager. Barry worked with the ADOT design team for three years, adding his construction expertise in the planning phase of this project. He was brought on early to contribute on the project specifications, methodology, and constructability. He attended value engineering workshops to increase his knowledge and understanding to provide ADOT with innovative ideas for the construction of this extensive bridge project. During construction, he was the Resident Engineer for the entire project, exceeding \$42M in construction costs.</i>		
2.	<b>Williams Field Road &amp; Recker Road Improvements, Gilbert, Arizona</b>	2014	2014
	(3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Project Manager/Construction Manager (PM/CM). Barry represented the Town of Gilbert on this 3-phased \$55M CIP project constructed through three separate design and construction contracts. Two of the projects were delivered by CMAR and one was design-bid-build (low-bid). During the PM phase, Barry performed constructability reviews and independent cost estimate reviews of the contractors' Guaranteed Maximum Price (GMP), which saved the Town \$2M. CEI also assisted the Town in acquiring land parcels for acquisition for the entire project corridor. \$55M</i>		
3.	<b>Williams Field Road, Gilbert Road to the Eastern Canal, Gilbert, Arizona</b>	2012	2012
	(3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Sr. Resident Engineer. Construction administration and inspection for a \$3.9M MCDOT improvement project that widened the existing four-lane roadway to six lanes with a landscaped median. The Eastern Canal Bridge and intersection improvements were completed as well as a new equestrian path on the north side of Williams Field Road. Construction items included a new structural section, milling and replacement of the asphaltic concrete (AC), new curb, gutter, sidewalk, new street lights, retention basins, storm drains, landscaping, signing, marking, and utility improvements. \$4M</i>		
4.	<b>US 60, Grand Avenue, SR 303L to 99th Avenue, Surprise and El Mirage, Arizona</b>	2012	2012
	(3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Sr. Resident Engineer. More than 10 miles of roadway widening to accommodate new additional through-lanes in each direction. The work also included milling AC pavement; furnishing and placing aggregate base, AC and AR-ACFC; new sidewalk, curb and gutter; 19 traffic signals, street lighting, new guardrail, drainage features, noise walls and other related work. This project involved coordination with the the Cities of El Mirage, Youngtown and Surprise, was administered by ADOT and was federally funded by ARRA. \$20M</i>		
5.	<b>Kingsbury Road, Grade Separation, ICE, Tahoe Basin, Nevada</b>	2014	2014
	(3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Project Manager. Barry oversaw CEI's estimators, was involved in reviews and coordinated CEI's Independent Cost Estimates with NDOT and the CMAR. The scope of construction for this 4-mile section of roadway improvement project on SR 207 included significant water quality improvements and roadway reconstruction in the highly environmentally sensitive Lake Tahoe Basin. Project design and construction methods were implemented to prevent sediments from entering the pristine Lake Tahoe and to meet all Tahoe Regional Planning Agency (TRPA) requirements. In collaboration with the State and the CMAR, CEI's independent reviews saved the state approximately \$900K in construction costs. \$12M</i>		



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

a. NAME <b>Luis Mota, PE, ECC</b>	b. ROLE IN THIS CONTRACT <b>Senior Resident Engineer</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>22</b>	2. WITH CURRENT FIRM <b>&lt;1</b>
d. LOCATION (City and State) <b>Gilbert, AZ</b>		e. EDUCATION (DEGREE AND SPECIALIZATION) <b>BS, Civil Engineering, Purdue University, 1996</b> <b>Minor: Construction Management, Structural Engineering, 1996</b>	
		f. PROFESSIONAL TRAINING - REGISTRATIONS <b>AZ Professional Engineer, #36662</b> <b>Certified Erosion Control Coordinator</b>	

g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)

Luis Mota is a Principal of CEI and has more than 20 years of experience in the construction management industry. He has served as a principal, contract manager, project manager, construction and resident engineer on numerous projects ranging from small projects to multi-million dollar projects. Luis has significant experience working on freeways, roadways, bridges, light rail, aviation, parks and trails and utility projects. He is experienced and knowledgeable in various project delivery methods including the traditional design-bid-build, design-bid and Construction Manager at Risk processes. Luis has also served as the Project Manager for several on-call services contracts including those for the Arizona Department of Transportation and the Pima County Department of Transportation. As a company principal Luis is also responsible for business development and pursuit of new clients and market sectors, maintaining client relationships, staff management, budget oversight, corporate reporting and ensuring that the company and its team members are responsive to all company clients.

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>Valley Metro Rail - Central Mesa Light Rail, Mesa, Arizona</b>	<b>2015</b>	<b>2015</b>
	(3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <i>Resident Engineer.</i> During the pre-construction phase, Luis facilitated the design-build reviews for the owner; during construction, as the resident engineer, he managed the project for the owner. The project involved 3.1 miles of embedded double track to extend the eastern limits of Valley Metro's original 20-mile system. The project included significant utility relocations, new power infrastructure, overhead contact system (OCS) four stations, an on-street bus facility, three traction power substation sites, four signal buildings, a storage track, three crossovers, a park-and-ride facility and an operator's facility. \$111M		
2.	<b>I-17, I-10 Stack to Indian School Road Widening, Phoenix, Arizona</b>	<b>2010</b>	<b>2010</b>
	(3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <i>Resident Engineer.</i> The team under Luis' direction worked together to plan for and complete as much of the work as possible during each short weekend closure. The end result was a timely project that met ADOT's expectations with minimal impacts to the public. Work included roadway excavation, Portland Cement Concrete Pavement (PCCP), asphalt rubber friction course (ARFC), drainage improvements, new signage, Intelligent Transportation System (ITS) work and permanent traffic control devices. The project added a dedicated southbound I-10 exit ramp lane and re-configured traffic signage. \$1M		
3.	<b>Cave Creek Road, Spur Crossing to Town Limits, Cave Creek, Arizona</b>	<b>2010</b>	<b>2010</b>
	(3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <i>Resident Engineer.</i> The 9.8-mile freeway widening project included roadway excavation, milling of existing pavements, bridge improvements, new concrete pavement with asphalt rubber overlays, drainage improvements, upgrades to the Freeway Management System (FMS), new sign structures, median barrier, new lighting, sound walls, drilled shafts and bridge pier construction, and interchange ramp widening. \$31.2M		
4.	<b>PCDOT - On-Call Construction Surveillance Services, Tucson, Arizona</b>	<b>2011</b>	<b>2011</b>
	(3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <i>Contract/Project Manager.</i> Luis was responsible for managing this on-call contract and providing various levels of inspection personnel to supplement the County's construction administration teams. Some assignments were filled on very short notice.		
5.	<b>ADOT - On-Call Full Service Construction Administration Contract, Statewide, Arizona</b>	<b>2011</b>	<b>2011</b>
	(3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <i>Project Manager.</i> Luis was responsible for managing the contract, negotiating terms and costs and assembling teams to provide as-needed construction administration services to ADOT. Most projects are municipal jobs with federal funding that were managed through ADOT's program. Under Luis direction full-service teams were provided for 23 projects.		



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

a. NAME <b>Mike Jauch, PE</b>	b. ROLE IN THIS CONTRACT <b>Senior Resident Engineer</b>	c. YEARS EXPERIENCE	
		1. TOTAL 28	2. WITH CURRENT FIRM <1
d. LOCATION (City and State) Heber, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) BS, Civil Engineering, University of Arizona, 1987		f. PROFESSIONAL TRAINING - REGISTRATIONS AZ Professional Engineer, #27298 CT Professional Engineer, #PEN.0030137	

g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)

Mike Jauch has extensive experience serving as Project Manager (PM) /Resident Engineer (RE) on a variety of construction projects involving rural highway, freeway, bridges, structures, water and wastewater transmission lines, and grading and drainage as well as vertical construction. Project features on projects that Mike has worked on include asphaltic concrete (AC) and asphaltic rubberized-asphaltic concrete friction course (AR-ACFC) pavements, Portland Cement Concrete Pavement (PCCP), mill and fill operations, chip seals, mass earthwork/grading and drainage, installation of new traffic signals, blasting operations, large diameter pipe installation and relocation, large multi-cell reinforced concrete box culverts (RCBC), cast-in-place and precast concrete girder bridges, slab bridges.

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>USDOT Central Lands Division, Control Road Project, Tonto National Forest, Gila County, Arizona</b>	2011	2011
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Assistant PM/Quality Control Engineer. Mike was the Assistant PM/Quality Control Engineer for the construction of seven bridges on Control Road in the Tonto National Forest. The improvements for these projects were 100% funded by the US DOT Central Lands Division. \$7M</i>		
2.	<b>US 93, Cottonwood Canyon to Bridle Creek Section Reconstruction, ADOT Kingman District, Arizona</b>	2007	2007
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Resident Engineer. Mike was the RE for a reconstruction project consisting of roadway excavation, including a significant volume of rock that possibly required blasting. The project involved grading, drainage, and paving the existing roadway to convert it to a four-lane divided section with two new concrete bridges, three new reinforced-concrete box culverts, revegetation of existing cacti, signing, striping, cement-stabilized alluvium and other miscellaneous work. Additional work was performed on the former No Name and Placeritas projects, where median grading and a southbound acceleration lane were constructed. \$20M</i>		
3.	<b>SR 77, Aravaipa Creek to Winkelman, Winkelman, Arizona</b>	2004	2004
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Resident Engineer. Mike was the RE for a project that included milling and replacing asphalt concrete pavement, overlaying the pavement with asphalt rubber-asphaltic concrete friction course, replacing bridge rails on five bridges, upgrading guardrail, and striping the roadway.</i>		
4.	<b>SR 170, US 70/San Carlos Junction, San Carlos, Arizona</b>	2004	2004
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Resident Engineer. Mike was the RE for a project that included widening and reconstructing the existing roadway to redirect it to the San Carlos Indian Tribe/Bureau of Indian Affairs. The work included pavement milling and removal, construction of new asphaltic concrete pavement, placement of aggregate base, guardrail removal and installation, pipe culvert extension and replacement, concrete box culvert extension, bridge scour protection, earthwork, construction of a retaining wall and rockfall fencing, seeding of disturbed areas, signing, and striping. The retaining wall was replaced with a dual shotcrete soil nail and lightweight backfill system.</i>		
5.	<b>City of Phoenix Aviation Department, PHX Sky Train™ Stage 1A, Phoenix Sky Harbor International Airport, Phoenix, Arizona</b>	2012	2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Assistant Project Manager/Resident Engineer. Mike was responsible for the inspection of construction activities and for performing special inspections during the construction of the automated train system through existing airport facilities from Terminal 4 to Terminal 3. The project consisted of an at-grade guideway to an underground guideway, then an elevated guideway terminating at Terminal 3. \$244M</i>		



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

a. NAME <b>Tom Ward, PE</b>	b. ROLE IN THIS CONTRACT <b>Senior Resident Engineer</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>38</b>	2. WITH CURRENT FIRM <b>1</b>
d. LOCATION (City and State) <b>Fountain Hills, AZ</b>			
e. EDUCATION (DEGREE AND SPECIALIZATION) <b>MS, Construction Management, Arizona State University, 2001</b> <b>BS, Construction Management, Arizona State University, 1977</b>		f. PROFESSIONAL TRAINING - REGISTRATIONS <b>Arizona Professional Engineer, #44742</b> <b>Canda Professional Engineer, #M164385</b>	

g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)

Tom Ward has 38 years of experience in the construction industry, including management of a large variety of infrastructure, transportation and commercial construction projects. He has an excellent track record of managing projects within schedule and budget and meeting or exceeding owner/client quality requirements. Most recently he was engaged in the Oil and Gas SAGD field development as the Earthworks Superintendent for Statoil Oil, Alberta Canada. Tom is a former Arizona Department of Transportation (ADOT) employee, where he held positions such as Resident Engineer (RE) and Technical Regional Training Officer. As an RE, he managed multiple highway construction projects and oversaw many bridge constructions and roadway widening projects.

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>USDOT Central Lands Division, Tonto National Forest, Control Bridges, Payson, Arizona</b>	2011	2011
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <b>QA/QC Manager.</b> Tom implemented the Quality Management Program for this D-B project that included all quality management, design, construction, project management, and safety management needed to remove existing bridges and construct seven bridges on Forest Highway 51. His responsibilities included supervision of the documents management process, and submission of all project quality record documentation as required by Federal specifications and the GMP. \$7M		
2.	<b>ADOT Temp Tech Personnel Contract Management, Phoenix, Arizona</b>	2012	2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <b>CA Unit Manager.</b> Tom was directly responsible for managing AMEC's Temporary Technical Personnel Contract with ADOT. He ensured that ADOT was provided with qualified and experienced temporary technical personnel for various project assignments. Tom was responsible for assembling a quality team, maintaining their certifications and ensuring ongoing training. \$5M (Annual Revenue)		
3.	<b>ADOT Multiple ARRA-Funded Paving Projects, Maricopa County, Arizona</b>	2010	2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <b>Senior Resident Engineer.</b> Tom was responsible for overall project oversight, review of construction documents and construction administration/management for various local government projects that required ADOT oversight. The scopes of work included public notification of pending work and coordination with businesses, first responders, and residents. The scopes of work for these projects included traffic control, site utilities relocation, and miscellaneous concrete work, traffic signals, milling existing asphalt, overlay pavement, striping, and signage installation. Project closeouts included final quantities verification, ARRA labor reporting audit, as build preparation and final acceptance of the project.		
4.	<b>ADOT Training Program Development</b>	2006	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <b>Regional Trainer.</b> Tom collaborated with all levels of management within ADOT in the completion of training needs assessments, development of training criteria, and outcome criterion. He developed traffic engineering-related course material, which required extensive research of transportation engineering technical data and information. The course material included workbooks, PowerPoint presentations, and testing. Subject matter related to transportation topics including construction surveying, storm water management, traffic work zone safety and flagger training.		
5.	<b>Multiple ARRA-Funded Paving Projects, Maricopa County, Arizona</b>	2010	2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <b>Senior Resident Engineer.</b> Tom was responsible for overall project oversight, review of construction documents and construction administration/management for various local government projects that required MCDOT oversight. The scopes of work included public notification of pending work and coordination with businesses, first responders, and residents. The scope of work included traffic control, site utilities relocation, concrete work, traffic signals, milling existing asphalt, overlay pavement, striping and signage installation. Project closeouts included final quantities verification, ARRA labor reporting audit, as-built drawings preparation and final acceptance of the project. \$8M		



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a. NAME <b>Brian Lizzet, PE, CCM, ACI, ATSSA</b>	b. ROLE IN THIS CONTRACT <b>Senior Resident Engineer</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>12</b>	2. WITH CURRENT FIRM <b>1</b>
d. LOCATION (City and State) <b>Scottsdale, AZ</b>			
e. EDUCATION (DEGREE AND SPECIALIZATION) <b>BS, Civil Engineering, Michigan State University, 2004</b>		f. PROFESSIONAL TRAINING - REGISTRATIONS <b>Arizona Professional Engineer, #48619 California Professional Engineer, #79922 ACI Certified and ATSSA Traffic Technician, Trained</b>	

g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)

Brian Lizzet offers 12 years of engineering and construction experience. His professional experience includes Construction Management, Construction Administration and Inspection services on a multitude of municipal roadway and bridge projects, located in Michigan, Illinois, Arizona, Nevada and California, with the majority of the projects being federally funded. He has been overseeing construction projects as a professionally licensed Engineer for over six years. Brian's knowledge spans from typical inspections to managing Contractor Pay Estimates, to writing Construction Change Orders or Field Orders to final close-out documentation. In addition, through his design experience he has become very well versed with contract specifications, structural and roadway design plans, redlining of plans and specifications, design coordination, and RFI and cost estimate preparation and review. His training includes ADOT Payroll Workshop, CMIT and OSHA Safety Training.

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>RH Johnson Boulevard/Meaker Boulevard ITS, Bell Road to US 60, Surprise, Arizona</b>	2015	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Resident Field/Office Engineer.</i> Brian's responsibilities include daily field inspections and documentation, responding to contractor submittals and RFIs, processing contractor monthly pay estimates, documenting quantities and filing of all documentation. The project includes the addition of a 96-strand single-mode fiber optic cable and upgrading of traffic signals and ITS operations. Additional work includes roadside removals and replacements of sidewalks, curbs, pull boxes and removal of existing twisted pair cable, installation of 4", 3", 2" conduits, and Type A and Type D junction boxes, and miscellaneous paving. \$1M		
2.	<b>SR 101L at Maryland Avenue, HOV Ramps, Glendale, Arizona</b>	2014	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <i>Document Controller Engineer/Field Inspector.</i> Brian oversaw the prime and subconsultant's design plans and quality control. He was the design/construction liaison between contractor and designer. The project included the D-B of the HOV Ramps at Maryland Avenue, in preparation for 2015 Super Bowl XLIX. \$14.5M		
3.	<b>Galveston Pedestrian Bridge, Chandler, Arizona</b>	2013	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <i>Construction Manager.</i> Brian was the direct point of contact for the design team. He was responsible for RFIs and design submittals. The ADOT Local Government funded project included post design services of the pedestrian bridge over SR-101, at Galveston Street. The bridge is a single steel box girder bridge over the freeway and a single cast-in-place box girder over the frontage roads (Price Road). Additional work included street modifications to the frontage roads to allow the bridge columns to be placed at an appropriate clear zone from travel lanes. \$3.6M		
4.	<b>Adams Street Bridge Replacement, La Quinta, California</b>	2012	2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <i>Project Engineer/Construction Manager/Field Inspector.</i> Brian assisted the resident engineer with daily inspections, responded to contractor submittals and RFIs, and calculated value engineering quantities. The project scope included construction of a four-span, cast-in-place box-girder structure on large, ten-foot diameter cast-in-drilled-hole (CIDH) pile shafts at the piers, and two-foot diameter CIDH piles at the abutments. \$8.6M		
5.	<b>Old US 80 Gila River Bridge, Historic Bridge Rehabilitation, Arlington, Arizona</b>	2012	2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <i>Resident Engineer/Field Inspector.</i> Brian performed daily inspections and was responsible for contractor submittals and RFIs, change orders, contractor monthly pay estimates, daily field reports, material load tickets and quantities, and coordination with material testing. This project was federally funded and was subject to Davis Bacon wage requirements. The bridge rehabilitation work consisted of heat straightening of bent steel truss members, pressure grouting under the bridge pier foundations; hydraulic jacking to remove the original, 85 year old, roller bearings; guardrail installation, approach asphalt paving, deck repairs, and the construction of an Interpretive Center Plaza. \$4M		



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

a. NAME <b>Will Perez, RLS, ACI, ATTI, ATSSA</b>	b. ROLE IN THIS CONTRACT <b>Survey Manager</b>	c. YEARS EXPERIENCE	
		1. TOTAL 29	2. WITH CURRENT FIRM 15
d. LOCATION (City and State) <b>Avondale, AZ</b>			
e. EDUCATION (DEGREE AND SPECIALIZATION) Data Processing, BASIC Language, South Mountain Community College, 1983		f. PROFESSIONAL TRAINING - REGISTRATIONS AZ Registered Land Surveyor, #50105 ACI and ATTI Certified ATSSA Trained Technician	

g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)

Will Perez has extensive experience in surveying and engineering including construction staking, topography, boundary surveys, commercial and residential construction, highway improvements, grading, and drainage design. He has more than 29 years background in survey, construction, and design throughout Arizona. Will has worked on numerous Arizona Department of Transportation (ADOT), Maricopa County Department of Transportation (MCDOT), and local government projects as the field Lead Surveyor and office Project Surveyor. He is Vice President of the Survey Division and has overseen the field quality assurance surveying for numerous CEI full-service ADOT construction management projects.

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>SR 101L, Freeway Widening, Maricopa County, Arizona</b>	Present	Present
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Construction Technician. Will was responsible for inspection of roadway construction, including roadway excavation, as well as tracking force account work. The project is located in Maricopa County within the cities of Scottsdale, Tempe and Mesa and the Salt River Pima-Maricopa Indian Community. The work consists of constructing an additional general purpose traffic lane for both northbound and southbound traffic, auxiliary lanes, and bridge widening at Camelback Walk, Via Linda, 90th Street, Via De Ventura, Indian Bend Road, Arizona Canal Bridge, McDonald Drive, Chaparral Road, Indian School Road, McDowell Road and McKellips Road. The work includes excavation and embankment, aggregate base, asphaltic concrete base, PCCP, ARFC, retaining walls, sound walls, landscape walls, drainage facilities, pavement marking, signing, lighting, and freeway management system components. \$72.7M</i>		
2.	<b>Northern Parkway, Reems and Litchfield Road Overpass, Glendale, Arizona</b>	2013	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>QA/QC Surveyor. Will provided QA/QC Survey Services for the west segment of MCDOT's Northern Parkway, 303L to Dysart Road. The 4.5 mile project included the construction of two bridges and associated ramps, MSE walls, and PCCP pavement, along with heavy earthwork volume monitoring. \$10.5M</i>		
3.	<b>SR 86 Roadway Reconstruction, Sells, Arizona</b>	2009	2009
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Project Survey Coordinator. Will provided construction survey and staking for for the 3.2 miles of roadway reconstruction work located in Pima County on SR 86 within the Town of Sells. The project consisted of reconstructing three sections of the existing roadway, adding shoulders to the existing roadway, and reconstructing the Sells Wash Bridge. \$10.5M</i>		
4.	<b>SR 101L and Olive Avenue Interchange, Phoenix, Arizona</b>	2011	2011
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Survey Manager. Will was responsible for all the survey fieldwork on the intersection improvement project. The project scope consisted of widening existing roadway, addition of raised median islands, new curb and gutters, sidewalks, driveways, bus bays, traffic markings, signing, lighting, storm drainage, landscaping, and signal modifications. \$1.6M</i>		
5.	<b>US 60, SR 303L to 99th Avenue, Maricopa County</b>	2010	2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Survey Manager. Will provided survey field services on this 10-mile project located within the Cities of El Mirage, Youngtown, and Surprise on US 60 in Maricopa County. The work consisted of widening Grand Avenue to accommodate an additional through-lane in each direction. The work also included milling AC pavement; furnishing and placing aggregate base, AC and AR-ACFC; new sidewalk, curb and gutter; traffic signals, street lighting, new guardrail, drainage features, noise walls and other related work. \$20M</i>		



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

a. NAME <b>Greg Presto, RLA</b>	b. ROLE IN THIS CONTRACT <b>Landscape Architect/Inspector</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>37</b>	2. WITH CURRENT FIRM <b>1</b>
d. LOCATION (City and State) <b>Scottsdale, Arizona</b>			
e. EDUCATION (DEGREE AND SPECIALIZATION) <b>BS, Landscape Architecture, Iowa State, 1978</b>		f. PROFESSIONAL TRAINING - REGISTRATIONS <b>Registered Landscape Architect, California No. 3521</b> <b>Registered Landscape Architect, Arizona No. 18950</b>	

g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)

Greg Presto has 37 years of experience in the landscape design and construction arena. He has worked on many facets of highway landscape, irrigation, hardscape/graphic design and construction and has worked on large development, highway and enhancement projects in California. He has the experience and knowledge of the standard Caltrans specifications and procedures. He has managed numerous types of projects and has provided landscape design for projects located in urban area, humid, cool and desert environments. His design work also includes parks playgrounds, ball fields, soccer/football fields, picnic, parking areas, and water treatment facilities. Greg is a Certified Erosion Control Coordinator and is familiar with the implementation of erosion control measures for roadway construction projects.

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>Williams Field Road Improvements, MCDOT, Gilbert, Arizona</b>	<b>2013</b>	<b>2013</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <i>Landscape Architect/Inspector. Greg provided construction inspection services for this project that included two miles of median and ROW landscape and irrigation system construction. He checked controllers and inspected specialty hardware installations, conducted nursery inspections and provided a detailed report of the plants inspected. He also trained CEI staff on landscape inspection requirements for this MCDOT. Greg worked on this project as a subconsultant to CEI. \$3.9M</i>		
2.	<b>US 60, Grand Avenue 99<sup>th</sup> Avenue to SR 303, Surprise and El Mirage, Arizona</b>	<b>2012</b>	<b>2012</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <i>Landscape Inspector. Greg provided landscape construction oversight for this 10-mile urban roadway improvement project. He was responsible for field inspections, plant inspections and layout, irrigation system inspections and testing, submittal reviews, and paint approvals. \$20M</i>		
3.	<b>I-10 Twin Peaks Interchange, ADOT, Marana, Arizona</b>	<b>2012</b>	<b>2012</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <i>Landscape Architect/Inspector. Greg provided construction oversight for the landscape and irrigation components of this large traffic interchange project. He provided field inspections, plant inspections and layouts, irrigation system inspections and testing, project material and submittal reviews, paint approvals, construction quality control, RFI review, change order evaluation, daily diary preparations and attended contractor weekly meetings. Greg worked on this project as a subconsultant to CEI. \$42M</i>		
4.	<b>Site Landscape Architecture, America's Tire Store, Murrieta, California</b>	<b>2012</b>	<b>2012</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <i>Landscape Architect/Inspector. Greg performed design, plan review and inspection for all landscaping, trees, shrubs, lawn, and irrigation design and irrigation line installations and plant establishment monitoring and inspection. Work was done in accordance with the City of Murrieta, CA. guidelines, specifications and methods.</i>		
5.	<b>US 60 Off-Ramp, Landscape Architecture, Moreno Valley, California</b>	<b>2007</b>	<b>2007</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <i>Landscape Architect/Inspector. Greg performed design, plan review and inspection for all landscaping, trees, shrubs, lawn, and irrigation design and irrigation line installations and plant establishment monitoring and inspection. Work was done in accordance with the Moreno Valley, CA. guidelines, specifications and methods. Greg conducted all work in coordination with the Caltrans resident engineers and representatives and the City engineers while complying with the right-of-way acquisition and easements easement agreements. Greg represented the developers and performed all work in accordance with the Caltrans construction manual and specifications.</i>		



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

a. NAME <b>Dan Ross</b>	b. ROLE IN THIS CONTRACT <b>Estimator/Scheduler</b>	c. YEARS EXPERIENCE	
		1. TOTAL 40	2. WITH CURRENT FIRM <1
d. LOCATION (City and State) Chandler, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) Business Management, LaSalle College		f. PROFESSIONAL TRAINING - REGISTRATIONS	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)			

Dan Ross has 40 years of experience in project controls management on engineering and construction projects for light rail, commercial, industrial, petro-chemical, refinery, chemical, steel, tunneling, and power projects. Dan expertly steers construction projects from concept to completion, based on a thorough knowledge of cost estimating, project planning and scheduling, contract administration, and cross-disciplinary communication. Dan provides scheduling and independent cost estimates for existing and new project pursuits. He understands the complexities of managing cost, schedule, and resources; and offers solutions to mitigate risk and yield the maximum value for clients' investments. Dan strives to balance the need to meet budget milestones and attain desired quality using a comprehensive approach that is customized to individual needs.

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION (City and State) <b>Valley Metro - Capital Projects, Phoenix, Mesa, Arizona</b>	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <i>Manager, Project Controls.</i> Dan was the master scheduler and provided project control management for Valley Metro Rail Capital projects, which included the \$1.4B Central Phoenix / East Valley Starter Line, \$200M Central Mesa Light Rail, and \$325M Light Rail Northwest Extension. He developed CPM schedules, managed schedulers, maintained an integrated construction/schedule control system, reported program and project status, provided performance trends analyses; worked with owners to prepare cost analyses, change orders, and/or claims for additional compensation.	Professional Services Present	Construction (if applicable) Present
2.	(1) TITLE AND LOCATION (City and State) <b>SEPTA—Broad Street Subway Signal Upgrade, Philadelphia, Pennsylvania</b>	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <i>Manager, Project Controls.</i> Dan's responsibilities included cost estimating, cost control and analyses, and construction planning and scheduling. The fast-track project was constructed under extreme conditions, working in the subway while the trains continued to run.	Professional Services 2003	Construction (if applicable) 2003
3.	(1) TITLE AND LOCATION (City and State) <b>Mobil (Valero) Refinery—Refinery Re-Build, Paulsboro, New Jersey</b>	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <i>Manager, Project Controls.</i> Dan managed all project controls for the Refinery re-build capital projects. He also developed detailed shutdown turn-around schedules and a new earned-value system.	Professional Services 2001	Construction (if applicable) 2001
4.	(1) TITLE AND LOCATION (City and State) <b>E.I. Dupont—Plant Expansions and Grass Roots Facilities, U.S., South America, and England</b>	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <i>Manager, Project Controls.</i> Dan managed a staff of 12 estimators, project schedulers, and cost analysts. He led the team as they developed detailed project construction schedules and earned-value systems for multiple plant expansions and grass root facilities in the United States, South America, and England.	Professional Services 1998	Construction (if applicable) 1998
5.	(1) TITLE AND LOCATION (City and State) <b>Tren Urbano—Master Schedule, San Juan, Puerto Rico</b>	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <i>Manager, Project Controls.</i> Dan was a member of the team that developed the master schedule and project engineering and construction plans. He also developed cost reports, contingency plans, and risk assessments.	Professional Services 1997	Construction (if applicable) 1997



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

a. NAME <b>Bruce Lantz, ACI, ATTI, ATSSA, ECC, NICET III</b>	b. ROLE IN THIS CONTRACT <b>Construction Inspector</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>37</b>	2. WITH CURRENT FIRM <b>4</b>
d. LOCATION (City and State) <b>Flagstaff, AZ</b>			
e. EDUCATION (DEGREE AND SPECIALIZATION) BS, Sociology, Corrections emphasis, Northern Arizona University BS, Geology, Engineering emphasis, extended major, Northern Arizona University		f. PROFESSIONAL TRAINING - REGISTRATIONS ACI and ATTI Certified ATSSA Traffic Control Supervisor, Certified Erosion Control Coordinator Certified NICET Level III Certified	

g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)

Bruce Lantz has 37 years of experience in construction inspection of infrastructure projects mainly in Arizona. His career includes 3 years of direct employment with the Federal Highway Administration (FHWA), 12 years with the City of Flagstaff Engineering Division, 14 years with a national consulting firm performing inspections on mainly ADOT projects, 1 year as a Petroleum Exploration Surveyor and 2 years as a Mineral Exploration Geologist. His depth of experience encompasses major highway, bridge, and earthwork construction projects. In addition to his ADOT and federal experience, Bruce has worked on Maricopa County Department of Transportation (MCDOT), City of Phoenix and Lake Havasu City public works projects, to name a few.

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>ADOT, SR 89A, Pumphouse Wash to Overlook, Mohave and Coconino Counties, Flagstaff District, Arizona</b>	2014	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <i>Lead Inspector. Bruce was responsible for providing inspection services simultaneously to these pavement preservation and rehabilitation projects. On Ash Fork, he was responsible for the installation of new guardrail, reconstruction of existing guardrail and reconstruction of existing pavement (laydown) milling bituminous pavement and overlaying with asphalt concrete pavement and surface, guardrail, bridge deck repair, and pavement markings. Pumphouse Wash consisted of four-miles through Oak Canyon switchbacks removing and replacing AC and overlaying with asphalt concrete friction course, rock scaling, bridge deck repair, pavement markings, guardrail and guardrail terminal replacement. \$12.5M</i>		
2.	<b>SR 89, Prescott-Ash Fork Highway, Paulden-Hells Canyon, Arizona</b>	1999	1999
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <i>Lead Inspector. Bruce's responsibilities included inspecting milled areas for required depth, marking locations of non-compliance, checking spread and compaction on asphaltic concrete laydown and reviewing all aspects of guardrail construction. He reviewed traffic control set-ups for compliance and monitored traffic backups. The travel lanes and shoulder for the entire 7.69 mile length were milled to a depth of 3 inches.</i>		
3.	<b>SR 89, Prescott-Ash Fork Highway, Granite Dells-Chino Valley, Arizona</b>	1999	1999
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <i>Lead Inspector. Bruce's responsibilities included reviewing traffic control plans submitted for compliance, inspection of AC laydown equipment for compliance, monitoring rolling patterns and working with the contractor's QC representative on the nuclear density gauge. Approximately 3.2 miles of travel lanes were milled 2.5 inches in depth with shoulders being milled .5 inches. The remaining 3.3 miles of travel lanes were milled to a 2 inch depth. \$3.4M</i>		
4.	<b>I-40B Fanning Drive, Flagstaff, Arizona</b>	2003	2003
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <i>Lead Inspector. Bruce performed the construction inspection for the widening of westbound Route 66 (I-40B) 200 feet just east of Fanning Drive to allow for a new right-turn lane onto Fanning Drive. Wheelchair ramps were added at all four corners of Fanning/Route 66, signal light pole were relocated, new business accesses/driveways were constructed as well as new signing and marking applications and installations.</i>		
5.	<b>89A Hamblin Wash-The Gap, Arizona</b>	2001	2001
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <i>Lead Inspector. Pavement preservation project that also included guardrail upgrading and ride smoothness improvements. The typical roadway section is two 12-foot lanes with 8-foot shoulders. Work elements included milling, filling, and leveling the existing surface as well as removing the "high spots" of the roadway and placing asphaltic concrete in the "low spots". Once the milling/filling/leveling work was completed, a 2-inch layer of AR-AC was placed over the entire 40-foot width. Approximately 2,500 feet of new guardrail was added. \$7M</i>		



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

a. NAME <b>Tom Redmond ACI, ATTI, ATSSA, CPESC</b>	b. ROLE IN THIS CONTRACT <b>Construction Inspector</b>	c. YEARS EXPERIENCE	
		1. TOTAL 39	2. WITH CURRENT FIRM 4
d. LOCATION (City and State) Buckeye, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) Associates Degree in Building Safety and Construction Technology, Southwestern College, 1979		f. PROFESSIONAL TRAINING - REGISTRATIONS ACI and ATTI Certified ATTSA Traffic Control Supervisor, Certified CPESC-IT Certified	

g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)

Tom Redmon has 39 years of construction inspection experience. His expertise includes civil, structural and special inspections of highways, bridges, utilities, large building construction as well as masonry and fireproofing operations. Tom's diverse experience includes inspection of drilled shafts in river beds, approved contractors' Storm Water Pollution Prevention Program (SWPPP) plans, operations for asphalt and concrete paving, and incidental items on minor street improvement projects. In addition to his highway experience, Tom has also inspected permits for residential and commercial construction such as water/wastewater lines, parking lots, fire hydrant installation, signing/marketing and traffic control measures.

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>ADOT Aeronautics Pavement Management System, Statewide</b>	2015	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Airfield Inspector.</i> Tom has worked on several ADOT Aeronautics projects that are part of the state's Pavement Management System upgrade. He performs daily inspections and documentation on the airfield construction repairs, which includes but not limited to paving, striping obliteration and new striping, invasive weed control, joint and crack repairs. Airports include: Benson Municipal, Winslow-Lindbergh Regional, Douglas Municipal, Greenlee County, Cottonwood Municipal, St. John's and Bisbee Douglas International Airport. Construction costs vary.		
2.	<b>ADOT, Apache County, Navajo County, Holbrook District</b>	2014	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>SWPPP/ECC Inspector.</i> Tom performed environmental inspections on five highway and bridge projects on US 191 St. Johns Sanders Highway, I-40 Holbrook-Lupton Highway, SR 264 Tuba City-Window Rock Highway, I-40 Painted Desert T1 Underpass and I-40 Navajo, chamber and Querino EB Lanes. For approximately one year, he maintained all compliance and communication with the ADEQ for permits to be issued every 14 days to satisfy the Environmental Protection Agency (EPA). Construction costs varied for each project.		
3.	<b>Williams Field Road to Eastern Canal, Gilbert, Arizona</b>	2012	2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Construction Inspector.</i> Tom is responsible for the structural inspection of the bridge widening; deck, drilled shafts, concrete for drilled shafts, abutment, approach slabs, headwalls, guardrail, and pedestrian rail. He also provided inspection of the landscaping and irrigation as well as take-off quantities. This project consists of the widening of Williams Field Road from Gilbert Road to just over the canal and includes medians, sidewalks and an equestrian trail. \$4M		
4.	<b>Sun City Mill and Resurface, Phase 5, Sun City, Arizona</b>	2012	2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Construction Inspector.</i> Tom provided inspection or utility adjustments (manholes, pipe, water valves, survey), shoulder adjustments, striping/thermal striping and pavement markings. This project consisted of milling and resurfacing existing pavement with Hot-in-Place Recycling (HIP recycling and asphalt-rubber overlay), the new federally approved asphalt Safety Edging, pavement markings, and loop detectors on 99th Avenue and on Del Webb Boulevard in Sun City and milling and asphalt-rubber pavement overlay on four roadways in the northeast and southwest portions of the county. This project includes asphalt safety edges, pavement markings, loop detectors.		
5.	<b>Phoenix Maintenance District Permits, Phoenix, Arizona</b>	2010	2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <i>Permit Inspector.</i> Tom reviewed, issued and inspected right of way permits for ADOT, in the Phoenix District. These included utility relocations, new access to the existing state highways, new developments and driveways, and landscaping and seeding. He reviewed plans and redlined needed changes, approved traffic control plans, and issued time extensions. He also inspected work for adherence to the standard specifications and good construction practices.		



**ATTACHMENT I – General Qualifications**

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**STATE PROCUREMENT OFFICE  
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100 North 15<sup>th</sup> 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>Vern Jones, ACI, ATTI, ATSSA</b>	b. ROLE IN THIS CONTRACT <b>Construction Inspector</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>34</b>	2. WITH CURRENT FIRM <b>11</b>
d. LOCATION (City and State) <b>Peoria, AZ</b>		f. PROFESSIONAL TRAINING - REGISTRATIONS <b>ACI and ATTI Certified ATSSA Traffic Control Supervisor Certified</b>	
e. EDUCATION (DEGREE AND SPECIALIZATION)			
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)			

Vern Jones has 34 years of experience in construction inspection and administration having worked 16 of those years with the Arizona Department of Transportation (ADOT) in the Phoenix District. He was lead inspector on the majority of his projects and was responsible for the traffic control operations on projects including monitoring traffic control set for compliance with approved traffic control plans and take down, as well as traffic control pay items. His expertise lies in the inspection of roadways, bridges and concrete structures, permits, water, sewer, lighting, curb, gutter, sidewalk and drainage. Vern also possesses experience in the construction inspection of infrastructure construction for residential subdivision development and public works projects, such as water and sewer lines, fire protection systems, sidewalks, curb and gutter. His background includes commercial site development, sampling of materials for asphalt and concrete paving, maintenance of traffic, and construction surveying.

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>SR 24, SR 202L to Ellsworth Road, Phoenix, Arizona</b>	<b>Present</b>	<b>Present</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Lead Inspector. Vern is providing inspection services on this new Freeway to Freeway TI ramps connecting to SR 202 from about Power Road to Elliot Road and constructing the new SR 24. The work includes roadway excavation, constructing embankment, grading, furnishing and placing Portland Cement Concrete Pavement, asphaltic concrete and asphaltic rubber friction course, eight bridge structures, retaining walls, four RCB Culverts, concrete barrier, drainage, pavement marking; signing; lighting; and landscaping. \$45M</i>		
2.	<b>City of Phoenix Planning and Development Services—Permit Inspections, Phoenix, Arizona</b>	<b>2008</b>	<b>2008</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Permit Inspector. Vern oversaw and inspected construction permits for commercial and residential developments throughout the City. Items inspected included water, sewer, lighting, paving, curb, gutter, sidewalk (ADA), fire protection (fire lines), parking lot and roadway drainage. Construction costs varied on each project.</i>		
3.	<b>Williams Field Road to Eastern Canal, Gilbert, Arizona</b>	<b>2011</b>	<b>2011</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Lead Inspector. Vern's responsibilities included inspection of the water lines, sewer lines, curb and gutter, sidewalks, precast voided slab over the canal, asphalt, subgrade, paving and earthwork. This project consisted of the widening of Williams Field Road from Gilbert road to just over the canal and includes medians, sidewalks and an equestrian trail. \$4M</i>		
4.	<b>US 60, SR 303L to 99<sup>th</sup> Avenue, Arizona</b>	<b>2012</b>	<b>2012</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Lead Inspector. Inspection duties included traffic control maintenance and protection items, noise walls, pavement markings, placement and removals, mill and fill, remove and replace asphalt (including AR-ACFC), intersection improvements, prepares daily diaries and payment documentation for monthly estimates, Quantlist reporting, underground storm drain installations, curb and gutter, sidewalks, and landscape inspection. The project is located within the Cities of El Mirage, Youngtown, and Surprise on US 60 for 10.1 miles. The work consisted of widening Grand Avenue to accommodate an additional through-lane in each direction. \$18M</i>		
5.	<b>SR 202L, 1-10/SR 51 TI to SR 101L, Phoenix/Tempe, Arizona</b>	<b>2010</b>	<b>2010</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Bridge Inspector. Vern's responsibilities on this design-build project included the inspection of the SR 202L Salt River Bridge drilled shaft foundations, pier columns and pier caps, precast girder sets, bridge deck forms and rebar. He prepared daily diaries, quantlists reports and punch lists. He also provided training to two ADOT employees and one consultant during these inspection activities. \$189M</i>		



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

a. NAME <b>Gary Barber, ACI, ATSSA, ECC</b>	b. ROLE IN THIS CONTRACT <b>Construction Inspector</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>32</b>	2. WITH CURRENT FIRM <b>16</b>
d. LOCATION (City and State) <b>Roosevelt, AZ</b>			
e. EDUCATION (DEGREE AND SPECIALIZATION) Western Institute of Technology, 1984 - 1986 Phoenix College Asphalt Mix Design Classes		f. PROFESSIONAL TRAINING - REGISTRATIONS ACI and ATTI Certified Certified Erosion Control Coordinator ATSSA Technician Trained	

g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)

Gary Barber is a seasoned technician with more than 30 years of inspection, field and laboratory testing experience for streets and highways. Gary is knowledgeable of all ADOT policies and procedures. His construction experience includes major and minor structures, post tensioning, retaining walls and noise barriers, concrete and asphalt pavements including; 409, 415, 416, 417, asphaltic concrete and AR-ACFC, as well as the inspection of earthwork, storm drains, riprap, fence, pavement marking, signing, lighting, guardrail, seeding, sewer lines, curb, and gutter. Additional skills include reviewing traffic control plans and payment documentation.

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>SR 260, Little Green Valley Roadway, Arizona</b>	2011	2011
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Lead Inspector. Gary was responsible for the inspection of clearing and grubbing, logging, minor structures, installation of new drainpipes, weed mitigation, installation of a new 8-foot elk fence, wildlife jumps, hot plant inspection, verifying quantities, and compaction testing. This project consisted of reconstructing an existing two-lane undivided roadway in to a four-lane divided highway. \$19.7M</i>		
2.	<b>Flagstaff Valle Highway, US 180, Columbus Avenue – Snow Bowl, Coconino County, Arizona</b>	2014	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Lead Inspector. Mr. Barber was responsible for the inspection of milling and replacing existing pavement with AC and ACFC, guardrail removal/ replacement, extending drainage pipes, and replacing headwalls and wingwalls. \$4.5M</i>		
3.	<b>I-40 Ash Fork Highway, East of Parks, Coconino County, Arizona</b>	2014	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Inspector. Gary's inspection duties included AC paving, new (and extension) guardrail, core service gate, loop detectors, traffic control, and pavement marking. \$1.7M</i>		
4.	<b>US 60, Miami City Limits to McMillen Wash, Globe, Arizona</b>	2010	2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Inspector. Gary's inspection duties included AC paving, milling, and fog coat; and provided payment documentation. This pavement preservation project consisted of milling and replacment of AC (3/4-inch Mix, End Product, Special Mix) and fog coat, video detection camera systems, storm drain pipe, catch basins and manholes, frames and covers for manholes and valve boxes, and pavement marking. \$10.6M</i>		
5.	<b>US 60, County Line to Pinto Valley, Globe, Arizona</b>	2010	2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Inspector. Gary's inspection duties included AC paving, earthwork, structures, box culverts, and striping; and provided payment documentation. The pavement preservation project included the addition of an eastbound climbing lane, which included milling and replacement of the existing asphaltic concrete, and rockfall mitigation. \$9.2M</i>		



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

a. NAME <b>Khalid Osman, ACI, ATTI, ATSSA, ECC</b>	b. ROLE IN THIS CONTRACT <b>Construction Inspector</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>19</b>	2. WITH CURRENT FIRM <b>7</b>
d. LOCATION (City and State) <b>Gilbert, AZ</b>			
e. EDUCATION (DEGREE AND SPECIALIZATION) <b>BS, Civil Engineering, University of Baguio, Baguio City Philippines, 1996</b>		f. PROFESSIONAL TRAINING - REGISTRATIONS <b>ACI and ATTI Certified ATSSA Traffic Control Technician Trained Certified Erosion Control Coordinator</b>	

g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)

Khalid Osman has 19 years of experience performing inspection and testing services in the construction industry. His responsibilities have included daily documentation and inspection of reinforcing steel, post-tension and masonry inspection and testing, as well as asphalt placement, traffic control, signing and striping, and compaction testing. Khalid is experienced in roadway, structures, earthwork, and pipe fitting. His project experience includes the Santa Rosa Bridge, Grand Avenue and Glendale Avenue under pass, Greenfield Road and SR 202 Bridge, and Pavement Preservation projects.

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>SR 101, 27th Avenue to 7th Avenue, Maricopa County, Arizona</b>	<b>2014</b>	<b>2014</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Lead Inspector.</i> Khalid's inspection duties included traffic control, milling existing asphaltic concrete (AC) operation, and striping and pavement marking inspection, including all quantities measurement and payment. This approximate 3-mile system preservation/reconstruction project consisted of milling existing Asphalt-Rubber/Asphalt-Concrete Friction Course (AR-ACFC), placing new AR-ACFC, striping, and signing. \$945K		
2.	<b>SR 303L, Glendale Avenue to Peoria Avenue, Maricopa County, Arizona</b>	<b>2012</b>	<b>2012</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Lead Traffic Control Inspector.</i> Khalid provided construction inspection services for channel lining and reinforcing steel, and concrete placement testing and sampling. He provided roadway subgrade and aggregate base testing, sampling, and inspection; placement finish grading, top soils, amended existing soils, asphalt 409, inspection of placement sampling materials, PCCP, joint saw cutting and sealing inspection, and PCCP concrete plant inspection. The interim freeway facility construction included interim ramps to Northern Parkway, roadway excavation and embankments, aggregate base, PCCP, eight precast prestressed AASHTO girder concrete bridges, retaining walls, sound wall, three box culverts and concrete lined channels, signing and pavement markings, lighting, traffic signals, and surveillance conduit and loop detectors. \$65M.		
3.	<b>US 60, Vulture Mine Road to Los Altos Drive, Wickenburg, Arizona</b>	<b>2012</b>	<b>2012</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Field Supervisor.</i> Khalid's responsibilities included all project clearing and grubbing, tree removal, street light poles, and curb and gutter. He observed, inspected, tested and sampled material, provided daily documentation and contractor payment. The project consisted of the widening of one-mile of a two-way left turn lane and construction of a shared-use path. This included demolition and addition of 12 feet of pavement width, curb and gutter, sidewalk, signing and pavement marking modifications, drainage improvements, construction of an asphaltic concrete shared-use path, ADA pedestrian ramps, handrail, and retaining walls. \$2.2M		
4.	<b>SR 89, Peoples Valley Yard to Wilhoi, Yavapai County, Arizona</b>	<b>2010</b>	<b>2010</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Inspector.</i> Khalid was responsible for inspection of the milling operation, milling payment quantities, and documentation for this pavement preservation project. \$2.8M		
5.	<b>Bell Road, Parkview Place to West City Limits, Surprise, Arizona</b>	<b>2010</b>	<b>2010</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Inspector.</i> Khalid was responsible for the inspection of the base course, grading, rubberized asphalt, manhole adjustments, pavement marking and traffic control. The project scope included the milling and replacement of asphaltic concrete on five miles of existing roadway, pavement marking, trenching, fiber optics and conduit for the ITS system. American Recovery and Reinvestment Act (ARRA) federally-funded project which extended from the Beardsley Canal to Parkview Place within the City of Surprise. \$2.4M		



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

a. NAME <b>Arnulfo (A.J.) Murrieta, ACI, ATTI, IMSA II, ATSSA</b>	b. ROLE IN THIS CONTRACT <b>Electrical Engineer</b>	c. YEARS EXPERIENCE	
		1. TOTAL 42	2. WITH CURRENT FIRM 13
d. LOCATION (City and State) Chandler, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) Courses in Computer Science, English Literature, Blueprint Reading, AC/DC Theory at Arizona State University, 1975 Mesa Community College, 1972		f. PROFESSIONAL TRAINING - REGISTRATIONS ACI, ATTI and IMSA Level II Certified ATSSA Traffic Control Technician, Trained ATSSA Traffic Control Supervisor, Trained	

g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)

A.J. Murrieta has spent his 42 year career as a civil and electrical inspector. Since 2003, he provided inspection services on numerous construction management projects that included electrical, civil and landscape items of work. A.J. has overseen dozens of traffic signal installation projects in the East Valley on local arterial streets and freeways. Arnulfo's electrical background includes city street lighting, traffic signals, traffic control, park lighting, freeway management systems (FMS), variable message systems (VMS), airport lighting, and border crossing weigh stations for a variety of clients including Arizona Department of Transportation (ADOT), Maricopa County Department of Transportation (MCDOT), and municipalities throughout Arizona. He has also served as a general superintendent installing electrical facilities for public works projects.

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>San Dorado, 1st Avenue and Oracle Road Traffic Signal Modifications, Oro Valley, Arizona</b>	2014	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Electrical Inspector. A.J. provided electrical inspection services on this Right-of-Way construction inspection permit project. He was responsible for the refurbishing of traffic signals and contractor compliance. The project consisted of removals, traffic signals roadway subgrade, subbase, asphalt, concrete curb and gutter, sidewalk, scuppers, and miscellaneous drainage concrete, drainage culverts, grade, riprap landscape irrigation system, plants, DG, pre-emergent and signing and striping. Construction cost unknown.</i>		
2.	<b>I-17, Arizona Canal to SR 101L, Arizona</b>	2013	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Electrical Inspector. A.J. was responsible for the inspection, documentation, and payments of fiber optic lines for CCTV Cameras and Dynamic Message Boards using ADOT's CPE Program. The work included the installation of conduit and fiber optic cables for closed circuit television cameras, overhead sign structures with dynamic message signs, loop detectors, and ramp meter installation. Construction cost unknown.</i>		
3.	<b>McDowell Road, SR 101 to Alma School Road; McKellips Road, Arizona</b>	2012	2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Electrical Inspector. A.J. provided inspection documentation, and payment for traffic control, removal and replacement of ITS pull boxes, installation and replacement of new fiber optic conduit and cable and interconnect for ITS and Signal Interconnect Systems between the five intersections on this Federally funded traffic signal upgrade project. \$225K</i>		
4.	<b>99th Ave., Del Webb Blvd., Mill and Resurface, Sun City, Arizona</b>	2012	2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Electrical Inspector. A.J. provided inspection and documentation of traffic control procedures and the new federally approved Safety Edge operations on four roadways in northeast and southwest Maricopa County, including 99th Avenue and Del Webb Boulevard in Sun City. The overall scope of the roadway improvements included milling and resurfacing existing pavement with hot-in-place (HIP) recycled asphaltic-rubberized pavement, new pavement markings, and the installation of loop detectors. \$250K</i>		
5.	<b>Bell Road at 98th Ave., 99th Ave., Del Webb Blvd., Burns Drive., Sun City, Arizona</b>	2011	2011
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Electrical Inspector. A.J. was responsible for inspecting the installation and removal of poles, foundations, pull boxes, cabinets, electrical conductors, and controllers, and provided concrete testing and sampling when the MCDOT lab needed assistance. He was the acting liaison between MCDOT, APS, and the contractor regarding the relocation of services at each intersection that involved replacement of current signals that did not comply with current federal highway standards. \$275K</i>		



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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.)

<p>a. TITLE AND LOCATION (City and State)</p> <p><b>US 191, Guthrie Bridge &amp; Roadway Improvements, Greenlee County, Arizona</b></p>	<p>b. YEAR COMPLETED</p> <table border="1"> <tr> <td data-bbox="847 457 1166 537"> <p>PROFESSIONAL SERVICES</p> <p><b>2009</b></p> </td> <td data-bbox="1166 457 1528 537"> <p>CONSTRUCTION (If applicable)</p> <p><b>2009</b></p> </td> </tr> </table>		<p>PROFESSIONAL SERVICES</p> <p><b>2009</b></p>	<p>CONSTRUCTION (If applicable)</p> <p><b>2009</b></p>
<p>PROFESSIONAL SERVICES</p> <p><b>2009</b></p>	<p>CONSTRUCTION (If applicable)</p> <p><b>2009</b></p>			
<p>23. Project Owner's Information</p>				
<p>c. PROJECT OWNER</p> <p><b>Arizona Department of Transportation</b></p>	<p>d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT</p> <p><b>\$186,523 (Actual) / \$192,873 (Original)</b></p>	<p>e. TOTAL COST OF PROJECT</p> <p><b>\$42,000,000</b></p>		

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

As a prime consultant, CEI provided pre-construction services, value analysis, and full construction administration services for the construction of a new bridge over the Gila River that replaced a 50+ year-old steel bridge. The new bridge is a 1,080-foot-long, eight-span composite bridge with five 120-foot and two 188.5-foot spans consisting of pre-cast, pre-stressed AASHTO Type VI concrete girders, and one 240-foot span utilizing steel plate girders. The project also included a new roadway with strict SWPPP regulations. Construction costs for the new bridge were \$28M and an additional \$14M for the highway improvements.



Since the old bridge had lead paint, the entire bridge had to be remediated to remove the lead paint before any demolition could begin.



CEI performed constructability evaluations to ensure that plans and specifications were complete. Major areas of focus during the evaluations included: project constructability; cost savings; errors, omissions, and insufficient details; potential conflicts; pay item structures/quantities; traffic impacts; and long lead items.



**PROJECT FEATURES:**

- Construction Management, Administration and Inspection
- Construction Surveying
- Value Engineering
- Replaced 50+ Year-Old Bridge
- New 1,080-foot, 8-span Composite Bridge
- Pre-cast, Pre-stressed AASHTO Type VI Concrete Girders
- 240-foot Span of Steel Plate Girders
- Lead Paint Remediation
- Roadway Improvements
- Strict SWPPP Regulations



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

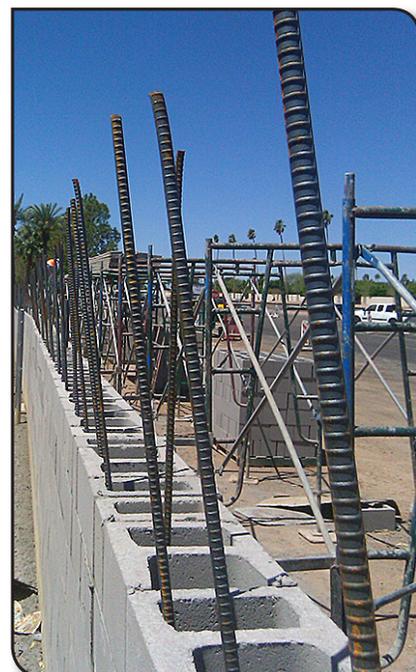
*(Present no more than five (5) projects. Complete one Section 5 for each project.)*

a. TITLE AND LOCATION <i>(City and State)</i>		b. YEAR COMPLETED	
US 60, Grand Avenue, SR 303L to 99th Avenue, Surprise and El Mirage, Arizona		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2013	2013
23. Project Owner's Information			
c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT	
Arizona Department of Transportation	\$1,608,118 (Original) /\$1,568,720 (Actual)	\$20,000,000	

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

This \$20M American Recovery and Reinvestment Act (ARRA) project widened and improved US 60 (Grand Avenue) for a 10-mile segment in the West Valley of the Phoenix Metropolitan area. This is one of the State's oldest highway systems, beginning in Downtown Phoenix, extending to the northwest and ending in the Town of Wickenburg. US 60 is a diagonal roadway that has skewed signalized at-grade intersections and overpass structures at various locations and crosses the Agua Fria River and several desert washes. The 10-mile segment that was widened is in the heart of a heavily traveled area, surrounded by industrial and small businesses, restaurants, and residential communities, and encompasses the Cities of Surprise and El Mirage. The entire highway system also parallels the BNSF/UPRR. Extensive traffic control measures and coordination with the railroads were required.

Work items included new aggregate base, new AC and AR-ACFC pavement, street lights, guardrail, noise walls 19 new traffic signals, thousands of lineal feet of new sidewalk, curb and gutter, and earthwork to address drainage improvements.



**PROJECT FEATURES:**

- Construction Management, Administration and Inspection
- Widening 10 miles of Existing Diagonal Highway with Skewed Intersections
- Coordination with BNSF/UPRR
- 19 New Traffic Signals Installed
- New Street Lights
- Curb, Gutter, Sidewalk, Landscaping
- Noise Walls and Masonry Walls
- Wet and Dry Utility Relocation



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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>Williams Field Road, Gilbert Road to the Eastern Canal, Gilbert, AZ</b>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		<b>2012</b>	<b>2012</b>
23. Project Owner's Information			
c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT	
<b>Maricopa County Department of Transportation (MCDOT)</b>	<b>\$789,838 (Original) / \$787,496 (Actual)</b>	<b>\$3,900,000</b>	

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

This \$3.9M project provided improvements to widen the existing four-lane roadway to six lanes with a landscaped median. The Eastern Canal Bridge and intersection improvements were completed as well as the construction of an equestrian path on the north side of Williams Field Road.

Construction items included a new structural section, milling and replacement of the asphaltic concrete (AC), new curb, gutter, sidewalk, new street lights, retention basins, storm drains, landscaping, signing, marking, and utility improvements. CEI's services included project management, resident engineering, construction administration, field office administration, and inspection.



*Williams Field Road was one of the tasks assigned to CEI through our on-call contract with MCDOT. Since 2010, CEI has held two consecutive contracts with the County and more than a dozen projects have been assigned and completed. Scopes on other projects through our on-call contract include pavement rehabilitation, structures improvements, intersection improvements, and signal upgrades.*





ATTACHMENT I – General Qualifications

ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:  
ADSP016-00005912

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

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

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

a. TITLE AND LOCATION <i>(City and State)</i>		b. YEAR COMPLETED	
Williams Field Road & Recker Road Improvements, Gilbert, AZ		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2014	2014
23. Project Owner's Information			
c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT	
Town of Gilbert	\$3,773,068 (original)/\$3,767,571 (Actual)	\$54,000,000 (Project Value) \$33,000,000 (Construction Costs)	

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

CEI provided Project Management services (PM) during design and Construction Management services (CM) during construction and managed two different designers and three separate contractors on this three-phased CIP project. Two of the projects were delivered by CMAR and one was design-bid-build (low-bid).

During the PM phase, CEI provided constructability review of the plans and independent cost estimate reviews of the contractors' Guaranteed Maximum Price (GMP), which saved the Town \$2M. CEI also assisted the Town in acquiring land parcels for acquisition.

During construction, a 12" asbestos pipe was discovered and replaced with 12" Ductile Iron Pipe (DIP).



**PROJECT FEATURES:**

- PM/CM, Administration and Inspection
- Cost Estimating
- Arterial Roadway Construction
- Water Lines
- Reclaimed Water Lines
- Sewer Lines
- Storm Drains
- Traffic Signals and Street Lighting
- Landscaping & Irrigation



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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.)

<p>a. TITLE AND LOCATION (City and State)</p> <p><b>Kingsbury Road, Grade Separation, Independent Cost Estimating, Tahoe Basin, Nevada</b></p>	<p>b. YEAR COMPLETED</p> <table border="1"> <tr> <td data-bbox="847 457 1167 537"> <p>PROFESSIONAL SERVICES</p> <p><b>2014</b></p> </td> <td data-bbox="1167 457 1521 537"> <p>CONSTRUCTION (If applicable)</p> <p><b>2014</b></p> </td> </tr> </table>		<p>PROFESSIONAL SERVICES</p> <p><b>2014</b></p>	<p>CONSTRUCTION (If applicable)</p> <p><b>2014</b></p>
<p>PROFESSIONAL SERVICES</p> <p><b>2014</b></p>	<p>CONSTRUCTION (If applicable)</p> <p><b>2014</b></p>			
<p>23. Project Owner's Information</p>				
<p>c. PROJECT OWNER</p> <p><b>Nevada Department of Transportation</b></p>	<p>d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT</p> <p><b>\$141,902 (Orig.) /\$123,946 (Actual)</b></p>	<p>e. TOTAL COST OF PROJECT</p> <p><b>\$12,000,000</b></p>		

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

This 4-mile section of roadway improvement project on SR 207 included significant water quality improvements and roadway reconstruction in the highly environmentally sensitive Lake Tahoe Basin. Project design and construction methods were implemented to prevent sediments from entering the pristine Lake Tahoe and to meet all Tahoe Regional Planning Agency (TRPA) requirements.

In collaboration with the State and the CMAR, CEI prepared independent cost estimates (ICE) at the 30%, 60% and final design stages. Production based methodology was utilized in the establishment of CEI's estimates.

*The Kingsbury project was a task assignment through our On-Call Independent Cost Estimating Contract with the Nevada Department of Transportation.*



**PROJECT FEATURES:**

- Independent Cost Estimating
- Independent Schedule Review and Analysis
- Constructability Review
- Risk Assessments and Cost Qualifications





ATTACHMENT I – General Qualifications

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Phoenix, Arizona 85007

6. ADDITIONAL INFORMATION

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

SEE ATTACHED ADDITIONAL INFORMATION REGARDING CEI'S QUALIFICATIONS.

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:	100%
b.	Percentage of Total Work Attributable to Non-Government Work:	0%

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

Signature:  Date: 12-21-2015  
 Name: John C. Patterson, President Title: President