



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

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

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

1. **Annual Request for Qualifications**

a. FIRM (OR BRANCH OFFICE ) NAME:	Project Engineering Consultants, LTD
b. FIRM (OR BRANCH OFFICE) STREET:	2310 W. Mission Lane; Suite #4
c. FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d. FIRM (OR BRANCH OFFICE) STATE:	Arizona
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85021
f. YEAR ESTABLISHED:	1983
(g1). OWNERSHIP - TYPE:	Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	Yes: Less than 100 employees
h. POINT OF CONTACT NAME AND TITLE:	Michael Heaton, Partner/Project Manager
i. POINT OF CONTACT TELEPHONE NUMBER:	602-906-1901
j. POINT OF CONTACT E-MAIL ADDRESS:	mheaton@pec.us.com
k. NAME OF FIRM (If block 1a is a branch office):	





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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)
2	Bridge Design	1
10	Construction Management	5
1	Design-Build: Preparation of Requests for Proposals	3
25	Highways; Street; Airfield Paving; Parking Lots	4
10	Irrigation; Drainage	2
50	Land Surveying	3
35	Landscape Architecture	2
25	Environmental Impact Studies, Assessments or Statements	4
0	Sewage Collection, Treatment and Disposal	1
8	Storm Water Handling and Facilities	3
2	Structural Design; Special Structures	1
5	Surveying; Platting; Mapping; Flood Plain Studies	1
40	Topographic Surveying and Mapping	2
25	Traffic & Transportation Engineering	6
4	Traffic Studies	2
3	Water Resources; Hydrology; Ground Water	3

**PROFESSIONAL SERVICES REVENUE INDEX NUMBER**

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



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

a. NAME Michael D. Heaton	b. ROLE IN THIS CONTRACT Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 25	2. WITH CURRENT FIRM 13
d. LOCATION (City and State) Project Engineering Consultants Ltd. Phoenix, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) BS, Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS AZ PE 25972; NASSCO PACP & MACP U-409-8388	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Certified Floodplain Manager; Member of ASCE, ASFPM, NASSCO, AzFMA			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Maple Ash Sewer Replacement Tempe, Arizona	2015	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Design of 4,500 feet of sewer line in the Maple Ash neighborhood in Tempe, Arizona. The \$75,000 project included design plans to PS&E. Role: Design Manager	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	Zone 4S Integration Phoenix, Arizona	2015	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Construction administration for 7,000 feet of a 12-inch water main in Phoenix, Arizona. The \$1.1 million project included installation, testing, tie-in to existing, and pavement replacement. Role: Resident Engineer	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	Loop 303 Outfall Final Design Goodyear, Arizona	2014	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Design of 1,300 feet of concrete box culvert and 4,000 feet of a concrete flood control channel for the Flood Control District of Maricopa County, Arizona. The \$135,000 project included design plans to PS&E. Role: Project Manager	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	Aqua Fria Conservation Area Site Improvements Lake Pleasant, Arizona	2015	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Design of site improvements for the new recreation area for the Arizona Game and Fish and the Maricopa County Parks Department. The \$100,000 project included design plans to PS&E. Role: Project Manager	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	Avenida Rio Salado/Broadway Road Phoenix, Arizona	2015	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Design of 1 mile of improved roadway in south Phoenix, Arizona. The \$525,000 project included design plans to PS&E. Role: Drainage Design Manager	<input checked="" type="checkbox"/>	Check if project performed with current firm



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

a. NAME <b>Tom Braatelian</b>	b. ROLE IN THIS CONTRACT <b>Civil Engineer</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>20</b>	2. WITH CURRENT FIRM <b>20</b>
d. LOCATION <i>(City and State)</i> <b>Project Engineering Consultants Ltd. Phoenix, Arizona</b>			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> <b>BS, Civil Engineering</b>		f. PROFESSIONAL TRAINING - REGISTRATIONS <b>TX PE 94219; AZ PE 33632; PE 52097</b>	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>99th Avenue Sewer Assessment Phoenix, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services <b>2015</b>	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <b>Design for a multi-city interceptor large-diameter, PVC lined reinforced concrete pipe. The \$414,573 project assessed four miles of pipe along with associated manholes and included rehabilitation recommendations. Role: Project Manager</b>	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Zone 4S Integration Phoenix, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services <b>2015</b>	Construction (if applicable) <b>2015</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <b>Construction administration for 7,000 feet of a 12-inch water main in Phoenix, Arizona. The \$1.1 million project included installation, testing, tie-in to existing, and pavement replacement. Role: Project Manager</b>	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>PVC Lined Sewer Condition Assessment Phoenix, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services <b>2015</b>	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <b>Condition assessment of 100 mile of lined sewer and 1,152 manholes in the Phoenix system. The \$3.2 million project included video logging of pipe and sewer pipelines, locating manholes, marking and measuring depth. Role: Project Manager</b>	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Farmer Avenue Sewer and Water Lines Tempe, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services <b>2015</b>	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <b>Design of 8,150 feet of water line and 1,450 feet of sewer line in Farmer Avenue in Tempe, Arizona. The \$110,000 project included design plans to PS&amp;E. Role: Project Manager</b>	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Maple Ash Sewer Replacement Tempe, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services <b>2015</b>	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <b>Design of 4,500 feet of sewer line in the Maple Ash neighborhood in Tempe, Arizona. The \$75,000 project included design plans to PS&amp;E. Role: Project Manager</b>	<input checked="" type="checkbox"/>	Check if project performed with current firm



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a. NAME <b>Mark Lee</b>	b. ROLE IN THIS CONTRACT <b>Civil Engineer</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>19</b>	2. WITH CURRENT FIRM <b>11</b>
d. LOCATION <i>(City and State)</i> <b>Project Engineering Consultants Ltd. Phoenix, Arizona</b>			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> <b>BS, Civil Engineering</b>		f. PROFESSIONAL TRAINING - REGISTRATIONS <b>AZ PE 34588; NASSCO PACP &amp; MACP U-803-815</b>	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> <b>American Public Works Association, NASTT, NASSCO, ASCE</b>			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Avenida Rio Salado/Broadway Road Phoenix, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services <b>2015</b>	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <b>Design of 1 mile of improved roadway in south Phoenix, Arizona. The \$525,000 project included design plans to PS&amp;E. Role: Project Manager</b>	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Bangerter and Redwood Intersection Improvements Salt Lake City, Utah</b>	(2) YEAR COMPLETED	
		Professional Services <b>2015</b>	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <b>Design-build of a continuous flow intersection and a three-piece bridge design. This \$45 million project included water, sewer, irrigation, storm drain, power, fiber optic, telephone and gas systems, and joint-trench design. Role: Utilities Manager</b>	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>I-15 Layton Interchange Improvements Layton, Utah</b>	(2) YEAR COMPLETED	
		Professional Services <b>2015</b>	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <b>Design of 11 intersection improvements, including ThrU-Turns. This project included topographic and ROW mapping of 2 miles of roadway and preparation of ROW instruments. Role: Utilities Manager</b>	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>1100 North Roadway Improvements North Salt Lake City, Utah</b>	(2) YEAR COMPLETED	
		Professional Services <b>2015</b>	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <b>Survey and right-of-way of 1100 North. This \$5.5 million project included 19.5 miles of utility designation, including water, sewer, storm drain, telephone, fiber optic, power, gas, and petroleum lines. Role: Utilities and Water Line Design</b>	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Orange Street Sewer Rehabilitation Design Salt Lake City, Utah</b>	(2) YEAR COMPLETED	
		Professional Services <b>2015</b>	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <b>Pipeline evaluation, replacement/rehabilitation design, bidding support, and construction phase services. The \$3.3 million project included an assessment of 12,500 feet of sewer trunk line. Role: Project Manager</b>	<input checked="" type="checkbox"/>	Check if project performed with current firm



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a. NAME <b>Steve Mortensen</b>	b. ROLE IN THIS CONTRACT <b>Project Principle</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>32</b>	2. WITH CURRENT FIRM <b>30</b>
d. LOCATION (City and State) <b>Project Engineering Consultants Ltd. Phoenix, Arizona</b>			
e. EDUCATION (DEGREE AND SPECIALIZATION) <b>BS, Civil Engineering</b>		f. PROFESSIONAL TRAINING - REGISTRATIONS <b>AZ PE 15285; AZ SL 16870; NASSCO Master Trainer T-010-059</b>	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION (City and State) <b>PVC Lined Sewer Condition Assessment Phoenix, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services <b>2015</b>	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Condition assessment of 100 mile of lined sewer and 1,152 manholes in the Phoenix system. The \$3.2 million project included video logging of pipe and sewer pipelines, locating manholes, marking and measuring depth. Role: Project Principal</b>	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION (City and State) <b>99th Avenue Sewer Assessment Phoenix, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services <b>2015</b>	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Design for a multi-city interceptor large-diameter, PVC lined reinforced concrete pipe. The \$414,573 project assessed four miles of pipe along with associated manholes and included rehabilitation recommendations. Role: Project Principal</b>	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION (City and State) <b>Zone 4S Integration Phoenix, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services <b>2015</b>	Construction (if applicable) <b>2015</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Construction administration for 7,000 feet of a 12-inch water main in Phoenix, Arizona. The \$1.1 million project included installation, testing, tie-in to existing, and pavement replacement. Role: Project Principal</b>	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION (City and State) <b>Avenida Rio Salado/Broadway Road Phoenix, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services <b>2015</b>	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Design of 1 mile of improved roadway in south Phoenix, Arizona. The \$525,000 project included design plans to PS&amp;E. Role: Project Principal</b>	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION (City and State) <b>Farmer Avenue Sewer and Water Lines Tempe, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services <b>2015</b>	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Design of 8,150 feet of water line and 1,450 feet of sewer line in Farmer Avenue in Tempe, Arizona. The \$110,000 project included design plans to PS&amp;E. Role: Project Principal</b>	<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 Richard Mackey	b. ROLE IN THIS CONTRACT Registered Land Surveyor	c. YEARS EXPERIENCE	
		1. TOTAL 25	2. WITH CURRENT FIRM 5
d. LOCATION <i>(City and State)</i> Project Engineering Consultants Ltd. Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS, Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona PE 23245; RLS 25079; PACP U-020-22259	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> American Consulting Engineers of Arizona, American Public Works Association, American Society of Civil Engineers			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION <i>(City and State)</i> PVC Lined Sewer Condition Assessment Phoenix, Arizona	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Condition assessment of 100 mile of lined sewer and 1,152 manholes in the Phoenix system. The \$3.2 million project included video logging of pipe and sewer pipelines, locating manholes, marking and measuring depth. Role: Survey Manager	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Farmer Avenue Sewer and Water Lines Tempe, Arizona	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Design of 8,150 feet of water line and 1,450 feet of sewer line in Farmer Avenue in Tempe, Arizona. The \$110,000 project included design plans to PS&E. Role: Survey Manager	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Maple Ash Sewer Replacement Tempe, Arizona	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Design of 4,500 feet of sewer line in the Maple Ash neighborhood in Tempe, Arizona. The \$75,000 project included design plans to PS&E. Role: Survey Manager	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input type="checkbox"/>	Check if project performed with current firm



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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> Avenida Rio Salado/Broadway Road, Phoenix, Arizona	b. YEAR COMPLETED PROFESSIONAL SERVICES December 2013 CONSTRUCTION <i>(If applicable)</i>	
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**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER City of Phoenix	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$7.8 Million	e. TOTAL COST OF PROJECT \$440,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

PEC designed plans and specifications for the reconstruction and widening of Avenida Rio Salado/Broadway Road from 43rd Avenue to 35th Avenue, including both major intersections at 43rd Avenue and 35th Avenue. The project was part of a multi-consultant selection by the City of Phoenix to upgrade the existing Broadway Road corridor from 51st Avenue to 17th Avenue as identified in the MAG Regional Transportation Plan (RTP). The design upgraded the roadway from a two-lane to a six-lane and raised median configuration, including bicycle lanes, curb, gutter, and detached sidewalk in accordance with City of Phoenix Standard Detail P-1010, Section B. Other improvements included removal of the entire roadway surface, regrading, paving, design of medians, sidewalks, curb, gutter, ADA ramps, driveways, frontage road, traffic signals, roadway lighting, landscaping, and earthwork design. The project also included hydrologic and hydraulic analysis, design of a storm drain system, preparation of a drainage report and analysis and design of the 43rd Avenue outfall to the Salt River. The federally-funded project required coordination with several agencies, including the City of Phoenix, ADOT, FHWA, MCDOT, FDCMC, utility owners, business owners, and residents. In addition, existing and new right-of-way and easement delineation exhibits and utility coordination and relocation designs were part of the project.



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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> Zone 4S Waterline Integration	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i> 2014

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER City of Phoenix	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$138,575 (Design Fee)	e. TOTAL COST OF PROJECT \$1.1 Million
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

PEC prepared the design and construction plans to install 6,477 linear feet of 12-inch ductile iron pipe (DIP) which connected the Zone 4SC Foothills Booster Pump Station 4SC-B1 at 15234 Desert Foothills Parkway to the Zone 4SD Cabrillo Canyon Booster Pump Station Zone 4SD-B1 at 15010 South 19th Way. The project included engineering design, a geotechnical investigation, public involvement, topographical surveying, utility mapping, subsurface investigations, and alignment studies. The project also involved construction of a new 12-inch diameter DIP water main to connect the Zone 4SC Foothills Booster Pump Station 4SC-B1 located at 15234 Desert Foothills Parkway to the Zone 4SD Cabrillo Canyon Booster Pump Station 4SD-B1 located at 15010 South 19th Way. These system improvements will equalize the two pressure zones, supply a loop to the existing system, provide operational flexibility for the Zone 4S water service, and provide more consistent water pressure for the end users. PEC is currently providing construction management services for this project.



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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	
Gillespie Area Drainage Master Study, Phoenix, Arizona	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i>

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER Flood Control District of Maricopa County	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$236,110	e. TOTAL COST OF PROJECT \$213,703
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

PEC developed the Gillespie Area Drainage Master Study (ADMS). The Gillespie ADMS identified and quantified existing and potential flooding hazards for a 148-square-mile portion of the Gillespie/Woolsey watershed in southwestern Maricopa County. PEC was a sub-consultant to Stantec Consulting Services Team for hydraulic analysis and floodplain delineation. PEC provided support to Stantec for the Flo-2D Hydrological study by providing the analysis of more than 160 culverts and conveyance structures under the highways and roads within the study area. This hydraulic analysis was provided in digital format as a spreadsheet and in GIS format that was imported directly into the Flo 2D modeling for the study area. PEC also developed the Rainbow Wash floodplain re-delineation. This included more than 13 miles of riverine floodplain, floodway, and the technical documentation for the study. The District decided to not submit this study to FEMA for approval.



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

a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Loop 303 Drainage Outfall Channel Final Design, Phoenix, Arizona	2011	2012

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Maricopa County Flood Control District	\$126,156	\$17 Million

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

PEC was a sub-consultant to Wood Patel & Associates for this project. The project developed the final design for 5 miles of drainage channel and the associated facilities along the proposed Loop 303 Freeway between Van Buren Street Road and the Gila River. PEC developed plan and profile designs, channel sections, grading, and off-site drainage from Yuma Road to Lower Buckeye Road. The design included a new box culvert from Yuma Road, extending to the south for nearly 1,400 feet, narrow sections of channel in several locations, and several drop structures along the channel alignment. PEC developed a hydraulic model for the proposed channel alignment to determine the location and channel feature elevations and appurtenances. Design plans and details were developed along with quantities for the cost estimate. PEC also took part in the public meetings held for the channel development.



**ATTACHMENT I – General Qualifications**

**ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:  
ADSP015-00004729**

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

**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	
99th Avenue Interceptor Condition Assessment Consulting Services	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
	2014	

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
City of Phoenix	\$394,354	\$394,354

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

PEC assessed and inspected 146 manholes on the 99th Avenue Interceptor as well as 42,382 linear feet of the interceptor from Olive to the 91st Avenue WWTP. The total length of pipeline along the project corridor is approximately 64,460 linear feet. At the direction of the City of Phoenix, PEC assessed 42,382 linear feet of the interceptor. The remaining portion was assessed with no defects by PEC in 2005 and was excluded from this assessment. PEC managed subconsultants to video the sewer and the manholes and to review the manhole assessments.



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6. ADDITIONAL INFORMATION

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

Project Engineering Consultants Ltd. (PEC) is an established full-service civil engineering consulting firm providing comprehensive services in preliminary environmental and engineering studies to final design and construction management and oversight. We employ staff who are committed to providing the highest quality environmental, landscape architecture, and engineering consulting services to federal, state, and local governments, and private clients. With offices in Utah, Arizona, and Nevada, PEC provides comprehensive and specialized services throughout the western United States.

PEC was founded in 1983 with the intention of providing affordable, personalized service, and projects that are timely and cost effective. Our philosophy remains the same today, and our success is evidenced by the number of repeat clients we enjoy. We treat our clients' interests as we would our own. We care about our employees, clients, and the communities we serve.

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

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

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

Signature:

Date: December 29, 2014

Name: Michael D. Heaton

Title: Vice, President