



**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:	Littlejohn Engineering Associates, Inc.
b.	FIRM (OR BRANCH OFFICE) STREET:	7227 N 16 <sup>th</sup> Street, Suite 140
c.	FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d.	FIRM (OR BRANCH OFFICE) STATE:	Arizona
e.	FIRM (OR BRANCH OFFICE) ZIP CODE:	85020
f.	YEAR ESTABLISHED:	1989
(g1).	OWNERSHIP - TYPE:	Corporation
(g2)	OWNERSHIP - SMALL BUSINESS STATUS:	N/A
h.	POINT OF CONTACT NAME AND TITLE:	H. Ross Lucas, PE
i.	POINT OF CONTACT TELEPHONE NUMBER:	(602) 241-0782
j.	POINT OF CONTACT E-MAIL ADDRESS:	rlucas@leainc.com
k.	NAME OF FIRM (If block 1a is a branch office):	N/A



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**2. EMPLOYEES BY DISCIPLINE**

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees - Firm	d. No. of Employees - Branch
CADD Technician	P	12	2
Chemical Engineer	P	2	0
Civil Engineer	P	22	3
Construction Manager	S	5	1
Construction Inspector	S	6	1
Cost Engineer/Estimator	S	3	1
Environmental Engineer	P	3	0
Environmental Scientist	P	10	0
Geographic Information System	P	2	1
Geologist	P	3	0
Hydrologist	S	3	1
Landscape Architect	P	10	0
Project Manager	P	2	1
Technician/Analyst	S	12	1
Transportation Engineer	P	10	0
Water Resources Engineer	P	9	0
Other – Industrial Hygienist	S	3	0
Other – Land Surveyor	P	7	1
Other – Planner: Urban/Regional	P	7	0
Other – Health/Safety	P	3	0
Other – Survey Technician	P	17	3
Other – Administrative/Marketing	P	12	2
<b>Total</b>		<b>131</b>	<b>13</b>



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**3. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST YEAR**

a. Approximate No. of Projects	b. Experience	c. Revenue Index Number (see below)
2	Airports; Navaid; Airport Lighting; Aircraft Fueling	2
3	Area Master Planning	2
2	Barracks; Dormitories	1
25	Commercial Building (Low Rise); Shopping Centers	3
2	Community Facilities	2
5	Construction Management	2
20	Construction Surveys	1
30	Cost Estimating; Cost Engineering & Analysis; Parametric Costing; Forecasting	2
1	Dining Halls; Clubs; Restaurants	1
20	Disability / Special Needs	2
2	Educational Facilities; Classrooms	1
5	Environmental Impact Studies, Assessments or Statements	3
1	Garages; Vehicles Maintenance Facilities; Parking	1
6	Highways; Streets; Airfield Paving; Parking Lots	4
13	Hospital & Medical Facilities	4
6	Housing (Residential, Multi-family; Apartments; Condominiums)	2
26	Infrastructure	5
15	Irrigation; Drainage	2
77	Land Surveying	3
30	Landscape Architecture	4
64	Phase I Environmental	3
15	Storm Water Handling & Facilities	2
9	Traffic & Transportation Engineering	4
55	Topographic Surveying & Mapping	2
7	Transportation	4
9	Urban Renewals; Community Development	3
9	Value Analysis; Life-Cycle Costing	1
6	Water Resources; Hydrology; Ground Water	2
5	Zoning; Land Use Studies	2

**PROFESSIONAL SERVICES REVENUE INDEX NUMBER**

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



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

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
<b>H. Ross Lucas, PE</b>	Project Manager/Point of Contact	1. TOTAL <b>10</b>	2. WITH CURRENT FIRM <b>10</b>
d. LOCATION <i>(City and State)</i> Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS Civil Engineering, Vanderbilt University, 2004		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona Registered Civil Engineer #54529	

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

Mr. Lucas has more than 10 years of experience in both public and private infrastructure design. He understands the multi-discipline coordination efforts required to complete projects on time and within budget. Ross also leads the firm's ADA compliance division from the Phoenix office. He has completed civil engineering design of ADA remediation projects at over 250 facilities across the country. He has established himself as a national expert in ADA barrier identification and remediation design. He is very familiar with all major accessibility codes including many state-specific accessibility codes. He truly understands the connection between construction plans and an ADA compliant final project.

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Superstition Springs Mall ADA Remediation Mesa, Arizona	2014	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager for the civil engineering and aided with project administration of the ADA remediation at this regional 40 acre shopping mall. Remediation design involved accessible parking and route rework, restriping, signage, installation of elevated walks and switchback ramps, and detectable warning installation. Sidewalk rework was necessary for over 4,000 linear feet of sidewalk.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	Banner Good Samaritan Emergency Department Expansion Phoenix, Arizona	2015	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project manager for the civil engineering and surveying of this 39,000 SF emergency department expansion. The project will also involve a new 1100 space parking garage and demolition of an existing medical office building. This project is utilizing the Integrated Project Delivery method. Services include initial site investigation, feasibility work, land surveying, grading permit application to the City of Phoenix, a Stormwater Pollution Prevention Plan and NPDES Permit and final construction documents.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	St. Joseph's Westgate Medical Office Building Glendale, Arizona	2015	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager for the surveying, civil engineering and landscape architecture design for a 60,000 SF medical office building on Dignity's St. Joseph's Westgate Campus. The project includes development of parking areas, drives and associated infrastructure to support the new building.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	2014 Pavement Preservation Project Glendale, Arizona	2014	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Responsible for the ADA compliance review and remediation as part of the pavement management program and 13 miles of treated roadway.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	West Valley Hospital Clinic/Office Property Transaction Goodyear, Arizona	2014	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Assisted West Valley Hospital with the entitlement, engineering and land planning matters related to the sale or lease of vacant land east of the hospital to Adelante Healthcare for development of a clinic, approximately 35,000 SF. Services include preparation of alternative concepts for development, review of design guideline and development covenants conditions/restrictions, meetings with the city of Goodyear, site/master plan update for the campus and survey and legal descriptions for the land transactions.	<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. ROLE IN THIS CONTRACT		c. YEARS EXPERIENCE	
<b>John Tuter, PE</b>		Project Manager		1. TOTAL 25	2. WITH CURRENT FIRM 1+
d. LOCATION <i>(City and State)</i> Phoenix, Arizona					
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS Civil Engineering, University of Missouri, 1995			f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona Registered Civil Engineer #39286		
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Mr. Tuter has more than 25 years of professional civil engineering experience with an emphasis in public works and municipal transportation projects. He has a solid management and design background in transportation, utility and infrastructure planning, design and construction. Transportation projects include management and design experience of both major and minor roadways from initial planning to final construction documents and specifications. He is experienced with policies, project assessments, bid documents, and construction cost estimating.					

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	2104 Pavement Preservation Project Glendale, Arizona	2014	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager for complete construction documents for the 2014 Pavement Program. The program provides pavement management in the form of slurry seal, mill & overlay or complete removal and replacement of existing roads. Overall 13 mile of roadway will be treated or improved in the 2014 program. Services include survey, design, pavement inspection, plan development, estimating and construction administration. Review and remediation of ADA facilities adjacent to the roadways is also included.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	Banner Good Samaritan Emergency Department Expansion Phoenix, Arizona	2015	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer for the civil engineering and surveying of this 39,000 SF emergency department expansion. The project will also involve a new 1100 space parking garage and demolition of an existing medical office building. This project is utilizing the Integrated Project Delivery method. Services include initial site investigation, feasibility work, and final construction documents.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	Scottsdale Road, Thompson Peak Parkway to Pinnacle Peak Road Design Concept Report and Final Design, Scottsdale, Arizona	2013	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager for all aspects of this transportation and utility project. Waterline improvements included alignment and design of 2 miles of 12" waterline. Alignment was critical on this project and involved coordination with multiple utility companies who maintain facilities within the corridor. The waterline replaced aging infrastructure within Scottsdale road that included single and parallel transmission lines. The project upgraded the existing lines and included reconnection of existing service lines, new service lines, new and properly spaced fire hydrants and the installation of zone valves. With the installation of a bridge over the Rawhide Wash the waterline included major vertical realignments to accommodate the new channel configuration and profile. Due to funding constraints the project was divided into two phases. Phase one of the project which is nearing completion included 0.5 miles of waterline that included service connections, fire hydrants, zone valves and pressure reducers along with the vertical realignment for the Rawhide Wash Bridge.	<input type="checkbox"/>	Check if project performed with current firm



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4.	(1) TITLE AND LOCATION ( <i>City and State</i> ) Mockingbird Lane Improvements Paradise Valley, Arizona	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE Acted as Project Manager for this project for the Town. The project included roadway improvements, utility coordination, pedestrian and bicycle improvements, a traffic circle and drainage improvements including a reinforced box culvert. Per design direction from the Town and input from local residents the roadway included a curvilinear alignment and raised median to assist with traffic calming. This project is very similar to the 56th Street Project in that both streets provide visually appealing views of the surrounding area, heavy pedestrian and bicycle use and traffic calming devices.	<input type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION ( <i>City and State</i> ) South Avondale CDBG Street & Sidewalk Improvements Avondale, Arizona	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE Responsibilities included project management and coordination, project design, utility coordination, QA/QC, and client contact involving City of Avondale's engineering staff. Served as Construction Coordinator providing full-time construction administration for the South Avondale Sidewalk Improvements. The focus of this project was to improve the quality of life for portions of old-town Avondale. Provided design and construction administration services for sidewalk improvements for approximately 1.0 mile of urban streets including the installation of Americans with Disabilities Act accessible sidewalks and sidewalk ramps.	<input type="checkbox"/> Check if project performed with current firm	



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

a. NAME  <b>David Maldonado, MBA, PE</b>	b. ROLE IN THIS CONTRACT  Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 10	2. WITH CURRENT FIRM 1
d. LOCATION <i>(City and State)</i> Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Masters in Business Administration, ASU, 2012		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona Registered Civil Engineer #48621	

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

Mr. Maldonado has more than 10 years of professional experience in various fields of civil engineering. His civil engineering expertise includes water and sanitary sewer system design, hydrology and hydraulic analysis, storm drainage design, roadway design, geometric layout, site grading, utility coordination, construction inspection and managing post-design services and construction inspection. He has been involved in a diverse number of projects including public roadway improvements, federal international port of entry, federal highway improvements, commercial and residential developments, among others. Mr. Maldonado has significant experience in the development of our urban communities. He has a municipal planning/design experience with insights into stormwater management and site servicing for projects by both private and public sector client

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Banner Good Samaritan Emergency Department Expansion Phoenix, Arizona	2015	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer for the civil engineering and surveying of this 39,000 SF emergency department expansion. The project will also involve a new 1100 space parking garage and demolition of an existing medical office building. This project is utilizing the Integrated Project Delivery method. Services include initial site investigation, feasibility work, and final construction documents.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	Southern Arizona VA Health Care System Tucson, Arizona	2010	Unknown
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer for the design of a hospital building expansion and modifications to an existing driveway and parking lot. Site design responsibilities included stormwater management, site grading, utility relocation, pavement and parking lot modifications, and the design of handicap access and driveway access for patient drop-off sites.	<input type="checkbox"/> Check if project performed with current firm	
3.	Chambers Electric Warehouse & Office Building Phoenix, Arizona	2010	2011
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer for a commercial site, including parking lot construction, driveway entrances, stormwater management, site servicing, sediment and erosion controls. Site design included water service, sanitary sewer, storm sewers, retention basins, driveway entrances and parking lot modifications. Responsibilities also included plan preparation, utility coordination, municipal reviews and approvals, and a stormwater management report in accordance with the design guidelines of the city of Phoenix.	<input type="checkbox"/> Check if project performed with current firm	
4.	Chandler Boulevard, Andrews Boulevard to Erie Street Chandler, Arizona	2009	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Design Engineer for the half-mile road widening improvements, which included preparation of a stormwater management plan for the proposed roadway widening, including the design of stormwater sewers systems, catch basins, scuppers, retention basin.	<input type="checkbox"/> Check if project performed with current firm	
5.	Beardsley Road, 99 <sup>th</sup> Avenue to 104 <sup>th</sup> Drive Peoria, Arizona	2009	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer for half-mile road widening improvements including the intersection widening of Lake Pleasant Road and Beardsley Road. Also completed a stormwater management plan.	<input type="checkbox"/> Check if project performed with current firm	



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

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
<b>Ava Furga</b>	Designer/Utility Coordinator	1. TOTAL 19	2. WITH CURRENT FIRM 9
d. LOCATION <i>(City and State)</i> Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> MS in Mechanical Engineering, University of Technology Worclaw, Poland, 1981		f. PROFESSIONAL TRAINING - REGISTRATIONS N/A	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Ms. Furga has over 19 years of engineering experience in both public and private infrastructure. She has substantial experience in the design and coordination of utility infrastructure along arterial roadways. Ava also brings a solid background in the design of drainage facilities.			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>Banner Good Samaritan Emergency Department Expansion</b> Phoenix, Arizona	<b>2015</b>	<b>2015</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Designer for the civil engineering of this 39,000 SF emergency expansion to an existing hospital. The project will also involve a new 1100 space parking garage and demolition of an existing medical office building. This project is utilizing the Integrated Project Delivery method. Services include initial site investigation, feasibility work, grading permit application to the City of Phoenix, a Stormwater Pollution Prevention Plan and NPDES Permit and final construction documents.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	<b>Chandler Regional Hospital Tower C Expansion</b> Chandler, Arizona	<b>2013</b>	<b>2014</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This five story hospital addition will increase the number of beds from 209 to 299. Major site changes will include development of an improved main entrance drive, a new helipad location, expanded loading dock and more parking convenient to the hospital main entrance. For this project we assisted with the amendment of the zoning in 2009 to allow this taller building on the campus. We also assisted with development of site concepts and solutions to improve access, visibility and convenience for patients, staff and visitors. Currently we are designing the civil site work improvements which include both on-site and off-site street, utility and drainage improvements. A very large surface storm water retention basin will be modified to provide for additional surface parking lots. This will require the construction of three large underground retention vaults with a capacity of approximately 330,000 cubic feet of storage. A number of drywells will also be needed to dispose of this water within 36 hours. Plans are being phased to maintain access and service to the hospital and the emergency department.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	<b>2014 Pavement Preservation Project</b> Glendale, Arizona	<b>2014</b>	<b>2014</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Designer for the complete construction documents for the 2014 Pavement Program. The program provides pavement management in the form of slurry seal, mill & overlay or complete removal and replacement of existing roads. Overall 13 mile of roadway will be treated or improved in the 2014 program. Services include survey, design, pavement inspection, plan development, estimating and construction administration. Review and remediation of ADA facilities adjacent to the roadways is also included. Construction is expected to be completed in November.	<input checked="" type="checkbox"/> Check if project performed with current firm	



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4.	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>Avondale Boulevard Infrastructure &amp; Roadway Improvements Avondale, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services <b>2012</b>	Construction (if applicable) <b>2013</b>
	(3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE Lead designer for off site roadway improvements to reconstruct Avondale Boulevard and McDowell Road in the City of Avondale. Improvements include roadway modifications to achieve a full roadway cross section with curb, gutter, sidewalks, bus bays and raised medians. Project also included coordinating the completion of traffic engineering, roadway and intersection design, signing and striping plans.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>99<sup>th</sup> Avenue Infrastructure &amp; Roadway Improvements Glendale, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services <b>2013</b>	Construction (if applicable) <b>2014</b>
	(3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE Ms. Furga coordinated the utilities for the alignment study of the ultimate street improvements to minimize conflicts with existing utility improvements including a 69kv power lines, USA Fee land occupied by the SRP irrigation facilities, and an irrigation well site owned by the RID. The improved roadway will have two-lanes in each direction and dual left turn lanes at a proposed signalized intersection. Final design was completed for the west half street improvements (1/4 miles of 99th Avenue).	<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. ROLE IN THIS CONTRACT		c. YEARS EXPERIENCE	
<b>Thomas Lavalette, RLS</b>		Survey Manager		1. TOTAL 25	2. WITH CURRENT FIRM 2
d. LOCATION <i>(City and State)</i> Phoenix, Arizona					
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> N/A			f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona Registered Land Surveyor #37258		

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

Mr. Lavalette has more than 25 years of field survey experience including ALTAs, boundary surveys, topographic surveys, and construction staking. He has coordinated and supervised several field survey crews, attending meetings with government agencies and contractors, conducted research of public records in connection with land surveys, performed surveys in compliance with the proper government agency standards, performed analysis of survey data and various office calculations, written legal descriptions, calculated and analyzed data for boundary surveys, reviewed data for quality control, and supervised drafting departments.

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	2014 Pavement Preservation Project Glendale, Arizona	2014	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Survey Manager for complete construction documents for the 2014 Pavement Program. The program provides pavement management in the form of slurry seal, mill & overlay or complete removal and replacement of existing roads. Overall 13 mile of roadway will be treated or improved in the 2014 program. Services include survey and pavement inspection. Review and remediation of ADA facilities adjacent to the roadways.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	Banner Good Samaritan Emergency Department Expansion Phoenix, Arizona	2015	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Survey manager for this 39,000 SF emergency department expansion. The project will also involve a new 1100 space parking garage and demolition of an existing medical office building.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	Yuma Street Sidewalk Improvements Phoenix, Arizona	2014	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Performed research and gathered existing record data to establish a horizon coordinate system based on the GDACS System and prepared base mapping in AutoCAD. Topographic survey consisted of cross-sections every 50' from right-of-way to right-of-way plus 10'.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	Scottsdale Healthcare Osborn 4 <sup>th</sup> Street Drainage Improvements and Subdivision Plat, Scottsdale, Arizona	2014	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Survey Manager.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	Superstition Springs Mall ADA Remediation Mesa, Arizona	2014	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Survey Manager for ADA remediation at this regional 40 acre shopping mall.	<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>Harsh Bapat</b>	b. ROLE IN THIS CONTRACT  GIS Task Leader	c. YEARS EXPERIENCE	
		1. TOTAL 14	2. WITH CURRENT FIRM 10
d. LOCATION <i>(City and State)</i> Phoenix, Arizona			

e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> MS in Building Design, ASU, 2004	f. PROFESSIONAL TRAINING - REGISTRATIONS Certificate Course in GIS, Arizona State University, 2004
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g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*  
 Mr. Bapat has more than 10 years of experience working as a GIS Specialist in a civil engineering/land surveying firm. He has been involved in a number of GIS and survey projects for a variety of public and private sector clients. He has extensive experience in both the field data collection as well as the office data processing side of GIS. He is also extensively involved in CAD/GIS interoperability and developing reliable methods to use historic CAD data in creating a GIS/CAD base map for various campuses the company has worked on over the years. Harsh is very proficient in the use of AutoCAD Land Development Desktop, Civil 3D 2013, ESRI ArcGIS and Adobe Photoshop. He is very proficient in the use of data collection software on hand held collectors as well as the office post-processing software for a variety of manufacturers, particularly for the Trimble, Topcon and Leica units.

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Superstition Springs Mall ADA Remediation Mesa, Arizona	2014	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Designer/Exhibits for the ADA remediation at this regional 40 acre shopping mall.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	Banner Good Samaritan Emergency Department Expansion Phoenix, Arizona	2015	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Designer for the civil engineering and surveying of this 39,000 SF emergency department expansion. The project will also involve a new 1100 space parking garage and demolition of an existing medical office building.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	2014 Pavement Preservation Project Glendale, Arizona	2014	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE GIS Specialist for this program that provided pavement management in the form of slurry seal, mill & overlay or complete removal and replacement of existing roads. Overall 13 mile of roadway will be treated or improved in the 2014 program. Services include survey, plan development, and GIS exhibits.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	Chattanooga Tremont Basin Sewer Asset Inspection & Management Chattanooga, Tennessee	2013	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE GIS Specialist for an inspection project of the City's Sanitary Sewer System within the Tremont Basin. Responsibilities included field analysis to locate defects in the sewer system, logging GPS points and cataloging field locations/specifics of defects in the lines, integration of the field data into a comprehensive asset inventory database and updating the client's web mapping data sets.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	Arizona Biodesign Institute at ASU Tempe, Arizona	2012	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This is a design/build project to for a 172,000 square foot, high tech laboratory, core support facilities and office space to be constructed at the corner of Terrace Drive and McAllister Avenue. Plans were designed to consider and anticipate the future development of the Biodesign Corridor adjacent to this site, including creating a new gateway into ASU from Rural Road and connection to the light rail plaza.	<input checked="" type="checkbox"/> Check if project performed with current firm	



**ATTACHMENT I – General Qualifications**

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Department of Administration  
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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	
Avondale Boulevard Improvements Avondale, Arizona	PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i> 2013

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
City of Avondale	\$45,000	\$250,000

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

**Key Elements:**

- Survey, Planning, Design & Const. Inspection
- Median Improvements & Turn Lanes
- Paving, Grading & Drainage
- Traffic/Signing/Striping
- Lighting Design
- Curb, Gutter & Sidewalk
- Cost Estimating



This project included roadway improvements to a 1/3 mile section of Avondale Boulevard including realignment, paving, median rework, grading and drainage, and signage and striping design. The roadway improvements extended to an existing intersection at Avondale Boulevard and McDowell Road where dual left turn lanes were provided in the south to eastbound direction. Design and construction requirements were in accordance with all applicable design standards and specifications.

Key challenges on this project included a very aggressive design schedule and the requirement to maintain traffic during construction. Our team was able to keep the project on schedule through effective coordination, utilization of appropriate resources, and consistent monitoring using project management software. Designs were completed with a mindful eye towards construction phasing that allowed the passage of traffic at all times.



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FOR THIS CONTRACT**

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

a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
2014 Pavement Preservation Program Glendale, Arizona	2014	2014

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
City of Glendale	\$305,000	\$4.2 Million

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

**Key Elements:**

- Survey, Design, Construction Management & Inspection
- Pavement Evaluation & Pavement Design
- Signing/Striping
- ADA Evaluation/Remediation
- GIS & Exhibits
- Cost Estimating & Quantities

Under an on-call task assignment, Littlejohn provided construction documents for the 2014 Pavement Program. The program provided pavement management in the form of slurry seal, mill and overlay or complete removal and replacement of existing roads. Overall 13 miles of roadway will be treated or improved. Services included survey, design, pavement inspection, plan development, estimating and construction administration. Review and remediation of ADA facilities adjacent to the roadways was also included.



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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>  99 <sup>th</sup> Avenue Improvements Avondale, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If applicable)</i> 2014

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER City of Glendale	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$60,000	e. TOTAL COST OF PROJECT \$972,000
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h. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

**Key Elements:**

- Planning, Survey, Design & Const. Inspection
- Paving, Grading & Drainage
- Curb, Gutter & Sidewalk
- Traffic Signal Conduits
- Irrigation Facilities on both sides of the Roadway; challenge was overcome through effective communication and a creative approach to minimize disturbance to irrigation facilities
- USA Fee Land Relocation; challenge was overcome by working closely with SRP to expedite the land exchange and phase design to keep the project on schedule



Littlejohn completed the planning, design and construction administration for the civil infrastructure to support a new regional medical facility in west Glendale. In addition to on-site grading, drainage, utility and parking facilities, Littlejohn prepared an alignment study for the ultimate street improvements to minimize conflicts with existing utility improvements including 69kv power lines, USA Fee land occupied by the Salt River Project (SRP) irrigation facilities, and an irrigation well site owned by the Roosevelt Irrigation District (RID). The improved roadway will have two-lanes in each direction and dual left turn lanes at a proposed signalized intersection. Glendale's Traffic Engineer and Development Engineer approved the study. Littlejohn completed the final design for the west half-street improvements (1/4 miles of 99th Avenue). Pavement was signed and striped to allow one lane in each direction and a single turn lane at the intersection to be signalized in the future. All streetlights, conduits and foundations for sign equipment were included in this project phase.



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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	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Desert River Boulevard New Roadway Design Glendale, Arizona	2014	2014

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
City of Glendale	\$60,000	\$972,000

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

**Key Elements:**

- Planning, Survey Design & Const. Inspection
- Paving, Grading & Drainage
- New Roadway, Sewer and Water Main
- Curb, Gutter and Sidewalk
- Extensive Utility Coordination



Littlejohn designed a half mile collector loop road (known as Desert River Boulevard) to serve the hospital and proposed commercial development adjacent to the site. Desert River Boulevard was dedicated to Glendale for use as a local street. The new roadway varied from three to five lanes and included development of street geometrics, full street and drainage improvements, a 10-inch sewer and a 12-inch water main. Also included in this phase of development was street lighting, conduit systems for dry utilities, curb, gutter and sidewalk, and drainage retention on both sides of the roadway. All street geometrics and underground conduit and foundation improvements were included for a signalized intersection at 99th Avenue with dual left turn lanes. This project included preparation of a drainage report, water report, and sewer report.

This project included a very shallow proposed gravity sewer within the proposed roadway section. Roadway grading was performed creatively to maximize utility cover while minimizing earthwork.

This project served multiple landowners and the city of Glendale. As such, there were many stakeholders with varying needs to be accommodated. This challenge was addressed by holding regular coordination meetings with all stakeholders to jointly express their thoughts; conflicting points of view were quickly and directly addressed allowing the project to proceed to successful completion.



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**5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS  
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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	
Superstition Springs Mall ADA Remediation Mesa, Arizona	PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If applicable)</i> On-going

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Macerich Property Management Company, LLC	\$74,040	N/A

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

Littlejohn provided civil engineering design and aided with project administration of the ADA remediation at this regional shopping mall on a 40 acre site. Remediation design involved accessible parking and route rework, restriping, signage, installation of elevated walks and switchback ramps, and detectable warning installation. The magnitude of this project was large in that nearly the entire loop road surrounding the campus was adjoined by a sidewalk that was nearly all non-compliant. Sidewalk rework was necessary for over 4,000 linear feet of sidewalk. The project has not yet been constructed but is currently on schedule.



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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.)

General Firm Description

Since its founding in 1989, Littlejohn has become distinguished among our peers by our commitment to service, quality and innovation in the engineering, planning, landscape architectural, surveying, and environmental consulting fields. What separates Littlejohn from other design firms is our multi-disciplined integrated approach. Our professional staff includes engineers, planners, landscape architects, and environmental specialists working in collaboration to meet your project needs within budget and on-time, or ahead of schedule.

We believe we are more than just an ordinary consulting firm. Our challenge and passion is to take our client’s vision and make it into a working reality. To us, a project is more than just concrete, steel, and brick-and-mortar - a project is personal. At Littlejohn, we never forget that maintaining that personal connection is the key to making not only a successful project, but a memorable one.

The strength of our firm lies in our commitment to a multidisciplinary approach to each design challenge. Our ability to combine diverse professional viewpoints for the betterment of the project is a cornerstone of our success. Our spirit and enthusiasm, innovative design solutions, and an ability to respond and communicate with our clients are why Littlejohn has a reputation for management excellence. Our dedicated team of project managers follows a rigorous set of quality control measures throughout all stages of a projects’ development in order to ensure quality services are delivered on-time, and within budget.

Littlejohn recently expanded our Phoenix Public Works Group with the addition of John Tuter, PE. John has over 30 years of civil infrastructure planning and design experience, including the last 11 years in the Phoenix metropolitan area. He has completed the management and design of multiple on-call projects including those for the cities of Scottsdale, Mesa, Avondale, and Glendale and Maricopa County.

Littlejohn also has an expertise in ADA compliance and accessibility issues having completed remediation at over 250 facilities nationwide, as well as numerous public facilities ranging from roadways and schools to parks. Our involvement on these projects has given us a wealth of experience on the Federal ADA law and localized state accessibility codes. This unique background demonstrates our proven ability to solve critical design issues under tight deadlines.

Management and Organizational Capabilities

Over the past 25 years, Littlejohn has grown from a small business with one office into a 130+ person firm with 9 offices throughout the U.S. Our professionals have years of hands-on project management experience ranging from large multimillion dollar capital improvement programs and private developments to smaller, locally significant projects. We are registered in 42 states and provide engineering, site planning, surveying, roadway design, municipal water and wastewater planning and design, developmental and environmental services throughout the country. The growing Phoenix office has 12 employees consisting of 3 civil engineers, 4 surveyors, 1 GIS specialist, 2 designers and 2 administrative/marketing personnel. The Littlejohn team has immediate availability and capacity to perform services for this contract.

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

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

Signature: H. Ross Lucas

Date: December 30, 2014

Name: H. Ross Lucas, PE

Title: Southwest Region Manager