



Offer and Acceptance

**State of Arizona
State Procurement Office**

100 N. 15th Ave. Suite 201
Phoenix, AZ 85007

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

PAGE
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Offeror: **Olsson Associates, Inc.**

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.

Olsson Associates, Inc.

Company Name

7250 North 16th Street, Suite 210

Address

Phoenix

AZ

85020

City

State

Zip

lswartz@olssonassociates.com

Contact Email Address

Signature of Person Authorized to Sign Offer

Len Swartz, PE, LEED AP BD+C

Printed Name

Regional Manager

Title

Phone: 602.748.1000

Fax: 602.748.1001

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
Department of Administration
100 North 15th 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:	Olsson Associates
b. FIRM (OR BRANCH OFFICE) STREET:	7250 North 16 th Street, Suite 210
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:	Phoenix Branch: 1999, Firm: 1956
(g1). OWNERSHIP - TYPE:	Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	None
h. POINT OF CONTACT NAME AND TITLE:	Len Swartz, PE, LEED® AP BD+C Office Leader
i. POINT OF CONTACT TELEPHONE NUMBER:	602.748.1000
j. POINT OF CONTACT E-MAIL ADDRESS:	lswartz@olssonassociates.com
k. NAME OF FIRM (If block 1a is a branch office):	Olsson Associates

a. FIRM (OR BRANCH OFFICE) NAME:	Olsson Associates
b. FIRM (OR BRANCH OFFICE) STREET:	1110 South Dobson Road, Suite 4
c. FIRM (OR BRANCH OFFICE) CITY:	Chandler
d. FIRM (OR BRANCH OFFICE) STATE:	Arizona
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85286
f. YEAR ESTABLISHED:	Chandler Branch: 2008, Firm: 1956
(g1). OWNERSHIP - TYPE:	Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	None
h. POINT OF CONTACT NAME AND TITLE:	Len Swartz, PE, LEED® AP BD+C Office Leader
i. POINT OF CONTACT TELEPHONE NUMBER:	602.748.1000
j. POINT OF CONTACT E-MAIL ADDRESS:	lswartz@olssonassociates.com
k. NAME OF FIRM (If block 1a is a branch office):	Olsson Associates



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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
Biologist	P	18	
CADD Technician	P	101	5
Civil Engineer	P	102	4
Construction Inspector	P	4	
Construction Manager	P	13	
Electrical Engineer	P	24	
Environmental Engineer	P	8	
Environmental Scientist	P	39	
Foundation/Geotechnical Engineer	P	11	
Geologist	P	9	
Hydrologist	P	1	
Land Surveyor	P	56	3
Landscape Architect	P	17	2
Mechanical Engineer	P	9	
Planner: Urban/Regional	P	8	
Sanitary Engineer	P	12	
Soils Engineer	P	1	
Structural Engineer	P	22	
Technician/Analyst	P	141	
Transportation Engineer	P	61	3
Water Resources Engineer	P	40	6
Other Employees	P	224	3
Total		921	28



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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)
9	Airports; Navaid; Airport Lighting; Aircraft Fueling	3
19	Airports; Terminals; & Hangars; Freight Handling	4
73	Bridge Design: Bridges	6
127	Commercial Building (Low Rise; Shopping Centers)	6
85	Construction Management	5
93	Construction Surveying	5
30	Design-Build - Preparation of Requests for Proposals	5
36	Education Facilities; Classrooms	5
31	Electrical Studies and Design	6
118	Environmental Impact Studies, Assessments or Statements	6
48	Highways; Streets; Airfield Paving; Parking Lots	5
87	Housing (Residential, Multi-Family; Apartments; Condominiums)	6
27	Industrial Buildings; Manufacturing Plants	3
3	Intelligent Transportation Systems	3
22	Irrigation; Drainage	4
144	Land Surveying	5
29	Landscape Architecture	3
2	Lighting (Exteriors; Streets; Memorials; Athletic Fields, Etc.)	3
13	Office Buildings; Industrial Parks	3
34	Railroad, Rapid Transit	5
15	Recreation Facilities (Parks, Marinas, Etc.)	3
45	Sewage Collection, Treatment, Disposal	5
135	Soils and Geologic Studies; Foundations	5
330	Surveying; Platting; Mapping; Flood Plain Studies	6
50	Storm Water Handling and Facilities	5



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89	Structural Design; Special Structures	6
367	Testing and Inspection Services	7
83	Traffic and Transportation Engineering	7
41	Urban Renewals; Community Development	3
387	Water Resources, Hydrology; Ground Water	7
51	Water Supply; Treatment and Distribution	6
8	Zoning; Land Use Studies	1

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 Len Swartz, PE, LEED, AP BD+C	b. ROLE IN THIS CONTRACT Civil Engineer, Project Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 16	2. WITH CURRENT FIRM 16
d. LOCATION <i>(City and State)</i> Olsson Associates (Phoenix, Arizona)			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Science, Civil Engineering, University of Nebraska-Lincoln, 1999		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer: AZ, CO, ID, MO, NE, NM, NV	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> City of Phoenix Self Certification Professional: #183, LEED® Accredited Professional, BD+C			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Paved Dirt Roads; Fort McDowell Yavapai Nation, AZ	2014	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Design services to realign and pave seven local and collector streets, approximately 4.9 miles, throughout the Yavapai Nation. Existing road widths of 28' to 34' and road profiles were maintained to minimize the disturbance of existing vegetation and drainage patterns. The roads were covered with a pavement structural section consisting of 6" of aggregate base and 3" of asphalt. Drainage improvements consist new pipe culverts at select locations and at-grade water crossings that are treated at the roadway edge with riprap to prevent scour. Existing signs brought to current reflectivity standards and stripes were painted on new asphalt pavement.		
2.	Bicycle and Pedestrian Bridge Children's Museum-Arizona Center; Phoenix, AZ	2013	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer. Olsson worked with the Maricopa Association of Governments (MAG) and the City of Phoenix on a project assessment to study and evaluate the crossing of 7th Street between Van Buren and Washington Street located within the urban core of downtown Phoenix. The project provided key linkages to several downtown destinations including the Children's Museum of Phoenix with the Arizona Science Center as well as historic Heritage Square, Copper Square, and the downtown sporting venues. Olsson as the prime consultant provided public involvement, civil engineering, structural engineering and landscape architecture design services.		
3.	Arizona State University North Campus Improvements; Tempe, AZ	2013	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer. In need of a functional facelift for new student recruitment, ASU selected Olsson as the prime to provide master planning and design services to complete site improvements for the 28-acre north campus area. Olsson as the prime consultant provided landscape architecture, surveying, civil engineering, traffic engineering, and electrical engineering design services.		
4.	Prasada Development; Surprise, AZ	2013	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer. Olsson provided the design of 6.5 miles of public infrastructure roadways as part of the Prasada development located in Surprise, Arizona. Sewer, water and drainage improvements were included for most of the roadways serving the Prasada development area. Olsson provided the following civil engineering services: grading and drainage, paving, roadway design, water and sanitary sewer design, as well as traffic engineering including signing and striping and traffic signal design.		
5.	Scottsdale Fashion Square Phase II; Scottsdale, AZ	2013	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer. Olsson provided civil engineering design services which included infrastructure, roadway, paving and grading design. Several key challenges included utilization of existing infrastructure with new utilities. This infill project included sensitivity to existing Facilities and buildings.		



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

a. NAME Rod Penniman, PE	b. ROLE IN THIS CONTRACT Civil Engineer, Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 30	2. WITH CURRENT FIRM 3
d. LOCATION <i>(City and State)</i> Olsson Associates (Phoenix, Arizona)			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Science, Civil Engineering, Rochester Institute of Technology, 1985		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer: AZ, NY	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Affiliations: American Society of Civil Engineers, American Public Works Association, Project Management Institute			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Arizona Canal Path, Chaparral Road to Indian Bend Wash; Scottsdale, AZ	2014	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Responsible for the preparing construction documents for approximately 2 miles of canal path from Chaparral Road to Indian Bend Wash. The improvements consist of new 10 ft. multi-use concrete path, AC pavement curb, gutter, sidewalk, ADA ramps, stamped asphalt medians, and two 14 ft. wide pedestrian bridges. Traffic components will include traffic signing, pavement marking, and two new "HAWK" signals. Addition work includes pedestrian lighting relocation and miscellaneous removals. Construction Cost: \$2,400,000		
	<input checked="" type="checkbox"/>	Check if project performed with current firm	
2.	Various Locations ARRA Pavement Preservation; Gila River Indian Community, AZ	2010	2011
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Responsible for pavement preservation on Pecos Rd between 51st Avenue and Tashquith Drive, approximately 0.8 miles; Elliot Road between 75th Avenue and San Juan Avenue, approximately 1.6 miles; and Estrella Drive between 67th Avenue and San Juan Avenue, approximately 1.5 miles. The project was scoped, designed and constructed using federal funds as part of the American Recovery and Reinvestment Act (ARRA). The work includes utility and stakeholder coordination, asphalt milling and paving, asphalt overlay, shoulder build-up, and pavement marking and signing. Construction Cost: \$416,000		
	<input type="checkbox"/>	Check if project performed with current firm	
3.	Casa Grande Elementary School District Parking Lot Asphalt Pavement; Casa Grande, AZ	2014	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Project Manager responsible for preparing construction documents for pavement improvements to 16 parking lots for the City of Casa Grande Elementary School District. The purpose of the project is to extend the useful service life of the existing pavement. Pavement treatments include fill cracks, full depth pavement replacement, and slurry seal application, and restriping the parking lots. Construction Cost: \$372,000		
	<input checked="" type="checkbox"/>	Check if project performed with current firm	
4.	Various Locations Asphalt Concrete Mill & Overlay; Peoria, AZ	2010	2011
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Responsible for pavement preservation on various road segments in the City of Peoria, which includes Beardsley Rd between 83rd Avenue and 99th Avenue, approximately 2 miles; 91st Avenue between Union Hills Drive and Village Parkway, approximately 0.5 miles; Lake Pleasant Road between Beardsley Road and Rose Garden, approximately 0.5 miles. The project was scoped, designed and constructed using federal funds as part of the ARRA. The work includes AC milling and overlay, pavement markings and signing. Construction Cost: \$1,500,000		
	<input type="checkbox"/>	Check if project performed with current firm	
5.	Indian School Road/El Mirage Road Intersection Improvements; Avondale, AZ	2008	2009
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Responsible for the design to widen the intersection which included pavement widening to accommodate turn lanes, new traffic signal, drainage and grading, driveway improvements, new bus bay, utility coordination, signing and striping. Construction Cost: \$500,000		
	<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 Dave Jensen, PE, CFM	b. ROLE IN THIS CONTRACT Civil Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 17	2. WITH CURRENT FIRM 3
d. LOCATION <i>(City and State)</i> Olsson Associates (Chandler, Arizona)			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Master of Science, Civil Engineering, Brigham Young University, 1998 Bachelor of Science, Civil Engineering, Brigham Young University, 1996		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer: AZ, NV Certified Floodplain Manager	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Affiliations: American Public Works Association, Association of State Dam Safety Officials, Arizona Floodplain Managers Association			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Papago Park Dams Assessment; Phoenix, AZ	2013	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Dam-break analysis and downstream inundation analysis for all dams in series and mapped the downstream inundation areas to understand the downstream hazards posed by the dams. Participated in and completed the documentation of a qualitative risk assessment through a failure modes analysis to understand the potential risks associated with the dams. Current tasks include a detailed risk assessment, risk analysis, a threat and vulnerability assessment, an update of the dam-breach modeling to include new survey data and stormwater overtopping, and a detailed hazard assessment using FEMA guidelines based on the fact that 1.5-million people visit the park each year.		
2.	Sonoqui Wash Channelization Phase II, Queen Creek, AZ	2012	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. The Flood Control District of Maricopa County (the District) is in the process of design and construction of a three phase Sonoqui Wash Channelization, a regional drainage solution that will benefit thousands of land owners in the Southeast Phoenix Metropolitan Valley. As part of a multidisciplinary team, Olsson Associates was responsible for providing context sensitive planning and design services to take advantage of multi-use opportunities.		
3.	Arizona Canal Path, Chaparral Road to Indian Bend Wash; Scottsdale, AZ	2014	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Olsson as the prime consultant is providing master planning and design services for this two mile shared use pathway segment completing the City's 14-mile paved portion of the Sun Circle Trail. The project is utilizing Congestion Mitigation and Air Quality CMAQ federal funding. Project partners include SRP, ADOT, FCDMC and Scottsdale Public Art. Olsson is providing public involvement, civil engineering, surveying, landscape architecture and electrical engineering for the City of Scottsdale.		
4.	Little Dreamy Draw Dam Hydrologic/Hydraulic Analysis; Phoenix, AZ	2012	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Development of PMP hydrologic analysis, reservoir routing, dam breach analysis, and downstream inundation mapping for a dam in urban Phoenix. Developed a hydrologic model of the watershed contributing to the dam, completed a dam breach analysis for various scenarios, and mapped the downstream inundation area using unsteady HEC-RAS.		
5.	Neighborhood Drainage Flood Mitigation Study; Apache Junction; AZ	2012	2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Assessment and mitigation of flooding issues in various neighborhoods for the City of Apache Junction. Completed alternatives analysis and developed concept plans and cost estimates for the recommended plan.		



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

a. NAME Duc Dao, PE	b. ROLE IN THIS CONTRACT Civil Engineer, Project Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 22	2. WITH CURRENT FIRM 10
d. LOCATION <i>(City and State)</i> Olsson Associates (Chandler, Arizona)		e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Science, Civil Engineering, University of California-Irvine, 1997	
f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer: AZ		g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>	

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Lafayette Interceptor Drain and Outlet Facility, Arizona Canal to 44th Street; Phoenix, AZ	2013	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer. Responsible for the preparation of all the construction plans, cost estimate, project specifications, and design report, and the hydrologic and hydraulic evaluation analysis of the watershed and drainage system. The storm drain traversed through an affluent residential neighborhood and through busy business areas, and design considerations were made to address resident and business concerns.		
2.	Old Cross Cut Canal Improvements, Indian School Road to Arizona Canal; Phoenix, AZ	2012	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer. 500 linear feet of a dual storm drain system consisting of 120-inch cast-in-place pipe and 102" RGRCP. While this project is short in length, there were many challenging design constraints, including crossing of the Arizona Canal, maintenance of traffic, relocation of power transmission lines, and protection of historical features within the storm drain alignment.		
3.	Sonoqui Wash Channelization Phase III; Queen Creek, AZ	2012	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer. The Flood Control District of Maricopa County (the District) is in the process of design and construction of a three phase Sonoqui Wash Channelization, a regional drainage solution that will benefit thousands of land owners in the Southeast Phoenix Metropolitan Valley. Part of a multidisciplinary team, responsible for providing context sensitive planning and design services to take advantage of multi-use opportunities.		
4.	Arizona Canal Path, Chaparral Road to Indian Bend Wash; Scottsdale, AZ	2014	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Drainage Engineer. Two-mile shared use pathway segment completing the City's 14 mile paved portion of the Sun Circle Trail. The project is utilizing Congestion Mitigation and Air Quality CMAQ federal funding. Project partners include SRP, ADOT, FCDMC and Scottsdale Public Art. Olsson is providing public involvement, civil engineering, surveying, landscape architecture and electrical engineering for the City of Scottsdale.		
5.	Lafayette Interceptor Drain and Outlet Design; Phoenix, AZ	2012	2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Lead Project Engineer. Design of the Lafayette Interceptor Drain and Outlet project. This project is the second segment of the Flood Control District's Arcadia Area Drainage Improvements, a regional flood control project proposed to mitigate flooding upstream of the Arizona Canal in the Arcadia watershed area.		



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

a. NAME Ron Szwiec, PE	b. ROLE IN THIS CONTRACT Civil Engineer, Project Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 24	2. WITH CURRENT FIRM 2
d. LOCATION <i>(City and State)</i> Olsson Associates (Chandler, Arizona)			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Science, Civil Engineering, Michigan State University, 1991		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer: AZ, CO, NV	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Arizona Canal Path, Chaparral Road to Indian Bend Wash; Scottsdale, AZ	2014	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Quality Control Engineer. Two-mile, shared-use pathway segment completing the City's 14-mile paved portion of the Sun Circle Trail. The project is utilizing Congestion Mitigation and Air Quality CMAQ federal funding. Project partners include SRP, ADOT, FCDMC and Scottsdale Public Art. Olsson is providing public involvement, civil engineering, surveying, landscape architecture and electrical engineering for the City of Scottsdale.		
2.	Esperanza Boulevard/I-19 Bicycle and Pedestrian Enhancement; Tucson; AZ	2013	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Transportation Engineer. This Arizona Department of Transportation (ADOT) Transportation enhancement and Scenic Roads Section (TE) sponsored project, will provide new bicycle lanes, ADA-compliant pedestrian curb ramps, benches, and landscaping along both sides of Esperanza Boulevard from Abrego Drive to La Canada Drive.		
3.	Paved Dirt Roads; Fort McDowell Yavapai Nation, AZ	2014	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Transportation Engineer. Design services to realign and pave seven local and collector streets, approximately 4.9 miles, throughout the Yavapai Nation. Existing road widths of 28' to 34' and road profiles were maintained to minimize the disturbance of existing vegetation and drainage patterns. The roads were covered with a pavement structural section consisting of 6" of aggregate base and 3" of asphalt. Drainage improvements consist new pipe culverts at select locations and at-grade water crossings that are treated at the roadway edge with riprap to prevent scour. Existing signs are brought to current reflectivity standards and stripes were painted on the new asphalt pavement.		
4.	219th Avenue Paved Dirt Roads; Surprise, AZ	2012	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Transportation Engineer. Olsson designed the Pave Dirt Roads West of 219th Avenue project consisting of 3.27 miles of local dirt roadways in Surprise. The Clean Air Act uses the National Ambient Air Quality Standards (non-attainment areas) to set limits on airborne particles smaller than 10-micrometers in diameter called PM-10. Paving these roads decreased the amount of PM-10 being produced by traffic on the roads. The project required environmental and cultural assessments, a design concept report, construction documents, project specifications, and a construction cost estimate.		
5.	Ehrenberg I-10 Overpass Area Multi-use Pathway; Ehrenberg, AZ	2013	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Transportation Engineer. The improvements will bring the path into compliance with AASHTO standards. The length of the new path will be a total of 750 feet and will extend from the Frontage Rd. to the existing I-10 bridge walkway. The reconstruction and enhancement of the multi-use path will provide for greater connectivity between both the local communities and states by providing a safer and more accessible route for cycling and walking. Olsson is currently providing ADOT landscape architecture, survey and civil engineering design services.		



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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	
Kim Kleski, PLA, ASLA, LEED AP BC+D	Landscape Architect, Project Manager	1. TOTAL 30	2. WITH CURRENT FIRM 2
d. LOCATION <i>(City and State)</i> Olsson Associates (Phoenix, Arizona)			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Landscape Architecture, Ohio State University, 1995		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Landscape Architect: AZ, OH	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Affiliations: USGBC Arizona Chapter Member, Arizona Landscape Contractors Association, American Society of Landscape Architects, Arizona Association for Economic Development			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Arizona Canal Path, Chaparral Road to Indian Bend Wash; Scottsdale, AZ	2014	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Landscape Architect. Two-mile, shared-use pathway segment completing the City's 14-mile paved portion of the Sun Circle Trail. The project is utilizing Congestion Mitigation and Air Quality CMAQ federal funding. Project partners include SRP, ADOT, FCDMC and Scottsdale Public Art. Olsson is providing public involvement, civil engineering, surveying, landscape architecture and electrical engineering for the City of Scottsdale.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	Lake Havasu Phase II Landscape and Irrigation Enhancement; Lake Havasu City, AZ	2013	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Landscape Architect. Arizona Department of Transportation (ADOT) Transportation Enhancement and Scenic Roads Section (TE) sponsored project, which provides multi-use pathway improvements along SR95 from Mulberry Avenue to the Water Safety Center. Improvements include landscape and irrigation as well as site amenities along the one mile corridor. Olsson as the prime consultant is providing landscape architecture and survey for this transportation enhancement project.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	Centennial Park; Chandler, AZ	2013	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Landscape Architect. 12-acre Centennial neighborhood park. The project includes a multi-use pathway, ramadas, volleyball and basketball courts, pedestrian lighting, and landscape and irrigation improvements. Olsson is providing landscape architecture, civil engineering, electrical engineering and survey design services.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	Broadway Road / Avenida Rio Salado; Phoenix, AZ	2014	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Landscape Architect, Irrigation Designer, Public Improvement Coordination, Artist Coordination. Street improvement project included new sidewalks, bike lanes, landscaping and street lighting from Seventh St. to 51st Ave. Kim worked on the landscape design from concept to 75% CD's (10 months). The project involved close coordination with local artists: Matt Moore and Mark Ryan. Other stakeholders included the City of Phoenix Parks, Streets, and Arts and Culture Departments.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	Ehrenberg I-10 Overpass Area Multi-use Pathway; Ehrenberg, AZ	2013	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Landscape Architect. The improvements will bring the path into compliance with AASHTO standards. The length of the new path will be a total of 750 feet and will extend from the Frontage Rd. to the existing I-10 bridge walkway. The reconstruction and enhancement of the multi-use path will provide for greater connectivity between both the local communities and states by providing a safer and more accessible route for cycling and walking. Olsson is currently providing ADOT landscape architecture, survey and civil engineering design services.	<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 Ken Fairchild, PE	b. ROLE IN THIS CONTRACT Electrical Engineer, Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 42	2. WITH CURRENT FIRM 41
d. LOCATION <i>(City and State)</i> Olsson Associates (Lincoln, Nebraska)			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Science, Electrical Engineering, University of Nebraska-Lincoln, 1972		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer: AZ	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Affiliations: Public Power Association			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Arizona Canal Path, Chaparral Road to Indian Bend Wash; Scottsdale, AZ	2014	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical Task Leader. Two-mile, shared-use pathway segment completing the City's 14-mile paved portion of the Sun Circle Trail. The project is utilizing Congestion Mitigation and Air Quality CMAQ federal funding. Project partners include SRP, ADOT, FCDMC and Scottsdale Public Art. Olsson is providing public involvement, civil engineering, surveying, landscape architecture and electrical engineering for the City of Scottsdale.		
2.	Diablo Stadium Sports Field Lighting; Tempe, AZ	2012	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical Engineer. Olsson Associate's Non-Destructive Team (NDT) inspected all the poles at Diablo Stadium, the spring training home of the Anaheim Angels, in Tempe, AZ. The project provided 100/70 foot-candle levels in the field with a control scheme implemented to reduce the levels to 50/30 fc. Electrical task leader for dedicated "Maintenance" lighting system was designed to provide adequate lighting for after game cleanup without having the entire lighting system energized.		
3.	Centennial Park; Chandler, AZ	2013	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical Task Leader. 12-acre Centennial neighborhood park. The project includes a multi-use pathway, ramadas, volleyball and basketball courts, pedestrian lighting, and landscape and irrigation improvements. Olsson is providing landscape architecture, civil engineering, electrical engineering and survey design services.		
4.	Athletic Field Lighting Improvements; Tempe, AZ	2012	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical Task Leader. Conducting a lighting evaluation study for the City of Tempe. The purpose of the study was to evaluate the major components of cost for the proposed athletic fields lighting improvements at the fifteen (15) City of Tempe (COT) parks and/or sports complexes all of which were in the 30 to 40 year old range. The prototype designs included photometric analysis, fixture count, and proposed pole locations. The evaluation also included capacity availability and physical inspection of the Service Entrance Section (SES) at each site.		
5.	Roadrunner Park; Chandler, AZ	2013	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical Task Leader. Lighting design at this new neighborhood park. Olsson provided expertise in landscape architecture, civil and electrical engineering. The 10.6 acre park is nestled within an existing development and surrounded by private residences. Particular attention was devoted to Roosevelt Water Conservation District easements located within and adjacent to the site. The design team was able to implement several creative strategies to visually mitigate the District facilities while maintaining functionality for the District.		



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

a. NAME Reece Henry, PLS	b. ROLE IN THIS CONTRACT Land Surveyor	c. YEARS EXPERIENCE	
		1. TOTAL 20	2. WITH CURRENT FIRM 1
d. LOCATION <i>(City and State)</i> Olsson Associates (Phoenix, Arizona)		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Land Surveyor: AZ	
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> N/A		g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Affiliations: AZ Professional Land Surveyors, National Society of Professional Surveyors, Geographic and Land Information Society	

H. RELEVANT PROJECTS

#	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Arizona Canal Path, Chaparral Road to Indian Bend Wash; Scottsdale, AZ	2014	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 Project Surveyor. Responsible for the preparing construction documents for approximately 2 miles of canal path from Chaparral Road to Indian Bend Wash. The improvements consist of new 10 ft. multi-use concrete path, AC pavement curb, gutter, sidewalk, ADA ramps, stamped asphalt medians, and two 14 ft. wide pedestrian bridges. Traffic components will include traffic signing, pavement marking, and two new "HAWK" signals. Addition work includes pedestrian lighting relocation and miscellaneous removals. Construction Cost: \$2,400,000		
2.	Sonoqui Wash Channelization Phase III; Queen Creek, AZ	2014	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 Project Surveyor. The Flood Control District of Maricopa County (the District) is in the process of design and construction of a three phase Sonoqui Wash Channelization, a regional drainage solution that will benefit thousands of land owners in the Southeast Phoenix Metropolitan Valley. Part of a multidisciplinary team, responsible for providing context sensitive planning and design services to take advantage of multi-use opportunities.		
3.	Casa Grande Elementary School District Parking Lot Asphalt Pavement; Casa Grande, AZ	2014	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 Project Surveyor. Project Manager responsible for preparing construction documents for pavement improvements to 16 parking lots for the City of Casa Grande Elementary School District. The purpose of the project is to extend the useful service life of the existing pavement. Pavement treatments include fill cracks, full depth pavement replacement, and slurry seal application, and restriping the parking lots. Construction Cost: \$372,000		
4.	City of Scottsdale Water Campus Drainage Improvements; Scottsdale, AZ	2014	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 Project Surveyor. Olsson is providing design services for multiple stormwater conveyance and drainage facilities within the Water Campus in North Scottsdale. Olsson has provided supplemental survey data to the original design topography and corrected several benchmark errors and inconsistencies.		
5.	Indian School Road/El Mirage Road Intersection Improvements; Avondale, AZ	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 Project Surveyor. Design services to realign and pave seven local and collector streets, approximately 4.9 miles, throughout the Yavapai Nation. Existing road widths of 28' to 34' and road profiles were maintained to minimize the disturbance of existing vegetation and drainage patterns. The roads were covered with a pavement structural section consisting of 6" of aggregate base and 3" of asphalt. Drainage improvements consist new pipe culverts at select locations and at-grade water crossings that are treated at the roadway edge with riprap to prevent scour. Existing signs are brought to current reflectivity standards and stripes were painted on the new asphalt pavement.		



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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>
Lafayette Interceptor Drain and Outlet Design; Phoenix, AZ	2013	2014

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Flood Control District of Maricopa County (FCDMC) and City of Phoenix Bobbie Ohler (FCDMC) 602-506-1501	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$775,955 / \$775,955	e. TOTAL COST OF PROJECT \$775,955
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Olsson Associates was selected by the Flood Control District of Maricopa County (Flood Control District) and the City of Phoenix as the prime consultant for the design of the Lafayette Interceptor Drain and Outlet project. This project is the second segment of the Flood Control District's Arcadia Area Drainage Improvements, a regional flood control project proposed to mitigate flooding upstream of the Arizona Canal in the Arcadia watershed area. The scope of work included:

- Project management during design
- Ground survey to supplement the aerial topography
- Geotechnical investigation and testing to determine design parameters
- Evaluation of the regional and local hydrology
- Hydraulic analysis of the storm drain system
- Design of the storm drain system, including horizontal alignment and vertical profile to minimize utility conflicts
- Structural design of six transition structures and a custom design catch basin to avoid utility conflicts
- Utility coordination and relocation design of impacted water and sewer lines
- Preparation of construction documents (e.g., plans, special provisions, cost estimate, and design report)
- Post-design support during construction



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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>
Arizona Canal Path, Chaparral Road to Indian Bend Wash; Scottsdale, AZ	2013-2015	2016

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER City of Scottsdale, AZ Paul Basha, Transportation Director 480-312-7651 Anna Leyva, Capital Projects Management 480-312-7769	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$4,200,000 / \$1,866,868	e. TOTAL COST OF PROJECT TBD
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g. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

The City of Scottsdale has selected Olsson Associates as the prime consultant to provide master planning and design services for the Arizona Canal Shared-Use Pathway, from Chaparral Road to Indian Bend Road. This two-mile shared-use pathway segment completes the city's 14-mile portion of the Sun Circle Trail, which provides a network of trails along the 68 miles of canal throughout Maricopa County. This pathway segment also ties into the city of Scottsdale's 25-mile paved pathway system located throughout the Indian Bend Wash pathway system. The proposed project area is situated predominately within the Salt River Project jurisdictional right-of-way (ROW) limits. The project limits also include areas of the Flood Control District of Maricopa County's (FCDMC) ROW as well. The project is utilizing both the city of Scottsdale and federal funding acquired through the Congestion Mitigation and Air Quality (CMAQ) program.

Key project stakeholders include the city of Scottsdale, the Federal Highway Administration, the Arizona Department of Transportation, the Salt River Project, and the FCDMC, as well as several Scottsdale neighborhoods.

Regional destinations accessible from this network of pathways include Papago Park which is home to the Phoenix Zoo and the Desert Botanical Gardens. Connections to the Cross Cut Canal Trail provide access to Tempe Town Lake and Tempe Beach Park located within the downtown Tempe Mill Avenue District. Local area destinations within the Arizona Canal Pathway include the Indian Bend Wash Greenbelt Recreation Corridor which is home to world class golf courses, an extensive network of multi-use pathways, and several city of Scottsdale parks.

The project area is lined with residential neighborhoods. A key element during the master-planning process will be the placement of these neighborhood connections to provide access to the proposed pathway. Potential neighborhood connections include Vista Drive, 76th Street, Miller Road, Jackrabbit Road, and Lincoln Drive.

Olsson and the city are using public meetings to involve neighborhood groups and help determine where neighborhood connections should be placed.

Olsson is providing master planning, public involvement, landscape architecture, survey, as well as civil and structural engineering.



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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	
Casa Grande Elementary School District Parking Lot Asphalt Pavement Rehabilitation Treatments; Casa Grande, AZ	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
	2013	2014

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Casa Grande Elementary School District Dennis York Office 520-876-3204	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$400,000 / \$372,000	e. TOTAL COST OF PROJECT \$372,000
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h. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

The Casa Grande Elementary School District selected Olsson to prepare construction documents for pavement improvements to 16 parking lots for the City of Casa Grande Elementary School District. The purpose of the project is to extend the useful service life of the existing pavement. Pavement treatments include fill cracks, full depth pavement replacement, and slurry seal application, and restriping the parking lots. The following parking lots received pavement rehabilitation treatments.



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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>
Old Crosscut Canal Improvements; Phoenix, AZ	2012	2013

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Flood Control District of Maricopa County (FCDMC) and City of Phoenix, AZ Bobbie Ohler (FCDMC) 602-506-2943 Hasan Mushtaq (City of Phoenix) 602-262-4026	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$251,474 / \$280,531	e. TOTAL COST OF PROJECT \$309,588 (After the design effort was started, the scope of work was expanded to include the crossing of the Arizona Canal. \$29,057 along with the additional scope of work was added to the contract. This addition was accommodated within the original schedule.)
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i. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Olsson served as the prime consultant for this fast-track project, which is Phase 1 of the overall Arcadia area drainage improvements. Phase 1 includes the undercrossing of the Arizona Canal and the replacement of the Old Cross Cut Canal (OCCC) earthen channel with an underground drainage system. Phase 1 is subdivided into Phase 1A, which consists of design and construction of the storm drain system from Indian School Road up to the Arizona Canal, and Phase 1B which includes the design of the undercrossing. Future phases will construct the storm drain portion to the north of the Arizona canal.

The Old Cross Cut Canal Improvements Project was implemented to enclose the Old Cross Cut Canal into a closed storm drain system and to provide an outlet for a future storm drain system that will mitigate flooding for properties within the Arcadia area watershed and to reduce flooding along the upstream side of the Arizona Canal. Prior to this project there were no drainage facilities to outlet stormwater from the Arcadia drainage area. This project will construct a storm drain system to collect and convey flows from the Arcadia drainage area into the Old Cross Cut Canal (OCCC) north of Indian School Road. The future system will provide flood protection in excess of the 10-year level. Additionally, the existing OCCC earthen ditch will be piped underground and be connected to the existing 2-10'x10' box culvert, which ultimately drains to the Grand Canal. Key design features of this project include:

- **Design of the inlet structure at the SRP headgate structure.** An IGA with SRP required the project to accommodate up to 1,000 cfs of discharge from the Arizona Canal at the headgate structure. SRP also requested that the design of the inlet structure and storm drain system not submerge their gates. In addition, District design guidelines require the velocity in the storm drain to be less than 15 feet per second. Olsson worked with the District engineers and designed a stepped spillway with a USBR Type III basin to dissipate energy as the water dropped almost 13 feet from the SRP headgate structure to the entrance of the storm drain.

This project is a joint effort between the Flood Control District of Maricopa County (FCDMC) and the City of Phoenix (COP), with the District taking the lead in the design and the City taking the lead in the construction. This project is being delivered using the CMAR delivery method.



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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 2014	CONSTRUCTION <i>(If applicable)</i> 2014

Paved Dirt Roads; Fort McDowell Yavapai Nation, AZ

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Fort McDowell Yavapai Nation (Nation) Joe Kanovich, Project Manager 480-789-7743 Erika McCalvin, Planning Manager 480-789-7742	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$472,273 / \$496,933	e. TOTAL COST OF PROJECT \$2,864,688
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j. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(include scope, size, and length of project)*

The Fort McDowell Yavapai Nation (FMYN) received federal funding under the Congestion Mitigation Air Quality (CMAQ) program for paving dirt roads within the FMYN. Approximately 4.9 miles of roads were targeted for paving, triggering compliance with Federal Highways Administration (FHWA) and Arizona Department of Transportation (ADOT), who administer CMAQ funds. The Nation and ADOT established an intergovernmental agreement (IGA) and the project was administered through ADOT's LPA Section.

As the prime consultant, Olsson was selected by the FMYN to provide design services to pave seven dirt roads in close proximity with the intersection of SR 87 and Fort McDowell Road within the Nation. Olsson provided design expertise in civil, drainage, traffic, transportation, structural engineering and surveying. The Olsson design team provided the following design deliverables: DCR, drainage report, environmental clearance and cultural report, geotechnical report, construction documents, project specifications and construction cost estimate. Primary design attributes include the following:

- **Alignment.** All roadways within this project were 28'-34' wide and were located on existing roadway grading as much as possible. At-grade water crossings required reduced speed limits and water level warning signs to provide safety to the public.
- **Drainage Improvements.** To provide paved roadways and reduce PM-10 without adding extra cost to the project, at-grade water crossings were designed with riprap for scour protection to allow flow over the roadway but still protecting the asphalt.
- **Traffic Engineering.** To limit the cost of traffic related items, since the goal of this project was to reduce PM-10, existing items were relocated. On this project the existing sign configuration was upgraded to provide a safer roadway. Some additional roadway striping was added where appropriate.
- **Internal, External, and Agency Coordination.** Coordination on the FMYN project involved the client, agencies, utilities, design team, and the members of the Nation. On this project Olsson held regular meetings with the client at milestone dates to insure appropriate communication. ADOT was contacted on a regular basis to keep all parties informed on where the project design was. With using federal funds several requirements were needed. One requirement that was important to get started on early is the environmental clearance. Olsson worked with the Del Sol Group to provide the details of the project early on so that they could provide the environmental documentation to get the necessary clearances before on-site construction activity was done. A less involved environmental clearance was necessary for geotechnical investigation on the projects. Along with these examples the entire project team was kept up to date on how the project was progressing and if any design related coordination was needed.
- **Funding.** Funding for each project is usually set up by the sponsor agency and MAG. The construction amount was estimated and programmed so the funds could be allocated as necessary to complete the project. Olsson helped the FMYN apply for funds usually allocated in large part to municipalities. Since the Indian communities are physically in the same area as other MAG funded municipalities, air quality is also important to them. This benefit is why Olsson has helped FMYN become more familiar with the funds available and coordinated with ADOT to help the FMYN understand what ADOT required so that FMYN could acquire the funds provided from the federal government.



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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.)

See attachment for further information.

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:	60%
b. Percentage of Total Work Attributable to Non-Government Work:	40%

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

Signature: _____

Date: December 18, 2015

Name: Len Swartz, PE, LEED AP BC+D

Title: Regional Manager



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

1. Annual Request for Qualifications

a. FIRM (OR BRANCH OFFICE) NAME:	Olsson Associates
b. FIRM (OR BRANCH OFFICE) STREET:	7250 North 16 th Street, Suite 210
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:	Phoenix Branch: 1999, Firm: 1956
(g1). OWNERSHIP - TYPE:	Corporation
(g2). OWNERSHIP - SMALL BUSINESS STATUS:	None
h. POINT OF CONTACT NAME AND TITLE:	Len Swartz, PE, LEED® AP BD+C Office Leader
i. POINT OF CONTACT TELEPHONE NUMBER:	602.748.1000
j. POINT OF CONTACT E-MAIL ADDRESS:	lswartz@olssonassociates.com
k. NAME OF FIRM (If block 1a is a branch office):	Olsson Associates

a. FIRM (OR BRANCH OFFICE) NAME:	Olsson Associates
b. FIRM (OR BRANCH OFFICE) STREET:	1110 South Dobson Road, Suite 4
c. FIRM (OR BRANCH OFFICE) CITY:	Chandler
d. FIRM (OR BRANCH OFFICE) STATE:	Arizona
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85286
f. YEAR ESTABLISHED:	Chandler Branch: 2008, Firm: 1956
(g1). OWNERSHIP - TYPE:	Corporation
(g2). OWNERSHIP - SMALL BUSINESS STATUS:	None
h. POINT OF CONTACT NAME AND TITLE:	Len Swartz, PE, LEED® AP BD+C Office Leader
i. POINT OF CONTACT TELEPHONE NUMBER:	602.748.1000
j. POINT OF CONTACT E-MAIL ADDRESS:	lswartz@olssonassociates.com
k. NAME OF FIRM (If block 1a is a branch office):	Olsson Associates



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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
Biologist	P	18	
CADD Technician	P	101	5
Civil Engineer	P	102	4
Construction Inspector	P	4	
Construction Manager	P	13	
Electrical Engineer	P	24	
Environmental Engineer	P	8	
Environmental Scientist	P	39	
Foundation/Geotechnical Engineer	P	11	
Geologist	P	9	
Hydrologist	P	1	
Land Surveyor	P	56	3
Landscape Architect	P	17	2
Mechanical Engineer	P	9	
Planner: Urban/Regional	P	8	
Sanitary Engineer	P	12	
Soils Engineer	P	1	
Structural Engineer	P	22	
Technician/Analyst	P	141	
Transportation Engineer	P	61	3
Water Resources Engineer	P	40	6
Other Employees	P	224	3
Total		921	28



ATTACHMENT I – General Qualifications

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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)
9	Airports; Navaid; Airport Lighting; Aircraft Fueling	3
19	Airports; Terminals; & Hangars; Freight Handling	4
73	Bridge Design: Bridges	6
127	Commercial Building (Low Rise; Shopping Centers)	6
85	Construction Management	5
93	Construction Surveying	5
30	Design-Build - Preparation of Requests for Proposals	5
36	Education Facilities; Classrooms	5
31	Electrical Studies and Design	6
118	Environmental Impact Studies, Assessments or Statements	6
48	Highways; Streets; Airfield Paving; Parking Lots	5
87	Housing (Residential, Multi-Family; Apartments; Condominiums)	6
27	Industrial Buildings; Manufacturing Plants	3
3	Intelligent Transportation Systems	3
22	Irrigation; Drainage	4
144	Land Surveying	5
29	Landscape Architecture	3
2	Lighting (Exteriors; Streets; Memorials; Athletic Fields, Etc.)	3
13	Office Buildings; Industrial Parks	3
34	Railroad, Rapid Transit	5
15	Recreation Facilities (Parks, Marinas, Etc.)	3
45	Sewage Collection, Treatment, Disposal	5
135	Soils and Geologic Studies; Foundations	5
330	Surveying; Platting; Mapping; Flood Plain Studies	6
50	Storm Water Handling and Facilities	5



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89	Structural Design; Special Structures	6
367	Testing and Inspection Services	7
83	Traffic and Transportation Engineering	7
41	Urban Renewals; Community Development	3
387	Water Resources, Hydrology; Ground Water	7
51	Water Supply; Treatment and Distribution	6
8	Zoning; Land Use Studies	1

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 Len Swartz, PE, LEED, AP BD+C	b. ROLE IN THIS CONTRACT Civil Engineer, Project Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 16	2. WITH CURRENT FIRM 16
d. LOCATION <i>(City and State)</i> Olsson Associates (Phoenix, Arizona)			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Science, Civil Engineering, University of Nebraska-Lincoln, 1999		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer: AZ, CO, ID, MO, NE, NM, NV	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> City of Phoenix Self Certification Professional: #183, LEED® Accredited Professional, BD+C			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Paved Dirt Roads; Fort McDowell Yavapai Nation, AZ	2014	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Design services to realign and pave seven local and collector streets, approximately 4.9 miles, throughout the Yavapai Nation. Existing road widths of 28' to 34' and road profiles were maintained to minimize the disturbance of existing vegetation and drainage patterns. The roads were covered with a pavement structural section consisting of 6" of aggregate base and 3" of asphalt. Drainage improvements consist new pipe culverts at select locations and at-grade water crossings that are treated at the roadway edge with riprap to prevent scour. Existing signs brought to current reflectivity standards and stripes were painted on new asphalt pavement.		
2.	Bicycle and Pedestrian Bridge Children's Museum-Arizona Center; Phoenix, AZ	2013	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer. Olsson worked with the Maricopa Association of Governments (MAG) and the City of Phoenix on a project assessment to study and evaluate the crossing of 7th Street between Van Buren and Washington Street located within the urban core of downtown Phoenix. The project provided key linkages to several downtown destinations including the Children's Museum of Phoenix with the Arizona Science Center as well as historic Heritage Square, Copper Square, and the downtown sporting venues. Olsson as the prime consultant provided public involvement, civil engineering, structural engineering and landscape architecture design services.		
3.	Arizona State University North Campus Improvements; Tempe, AZ	2013	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer. In need of a functional facelift for new student recruitment, ASU selected Olsson as the prime to provide master planning and design services to complete site improvements for the 28-acre north campus area. Olsson as the prime consultant provided landscape architecture, surveying, civil engineering, traffic engineering, and electrical engineering design services.		
4.	Prasada Development; Surprise, AZ	2013	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer. Olsson provided the design of 6.5 miles of public infrastructure roadways as part of the Prasada development located in Surprise, Arizona. Sewer, water and drainage improvements were included for most of the roadways serving the Prasada development area. Olsson provided the following civil engineering services: grading and drainage, paving, roadway design, water and sanitary sewer design, as well as traffic engineering including signing and striping and traffic signal design.		
5.	Scottsdale Fashion Square Phase II; Scottsdale, AZ	2013	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer. Olsson provided civil engineering design services which included infrastructure, roadway, paving and grading design. Several key challenges included utilization of existing infrastructure with new utilities. This infill project included sensitivity to existing Facilities and buildings.		



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

a. NAME Rod Penniman, PE	b. ROLE IN THIS CONTRACT Civil Engineer, Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 30	2. WITH CURRENT FIRM 3
d. LOCATION <i>(City and State)</i> Olsson Associates (Phoenix, Arizona)			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Science, Civil Engineering, Rochester Institute of Technology, 1985		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer: AZ, NY	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Affiliations: American Society of Civil Engineers, American Public Works Association, Project Management Institute			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Arizona Canal Path, Chaparral Road to Indian Bend Wash; Scottsdale, AZ	2014	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Responsible for the preparing construction documents for approximately 2 miles of canal path from Chaparral Road to Indian Bend Wash. The improvements consist of new 10 ft. multi-use concrete path, AC pavement curb, gutter, sidewalk, ADA ramps, stamped asphalt medians, and two 14 ft. wide pedestrian bridges. Traffic components will include traffic signing, pavement marking, and two new "HAWK" signals. Addition work includes pedestrian lighting relocation and miscellaneous removals. Construction Cost: \$2,400,000		
	<input checked="" type="checkbox"/>	Check if project performed with current firm	
2.	Various Locations ARRA Pavement Preservation; Gila River Indian Community, AZ	2010	2011
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Responsible for pavement preservation on Pecos Rd between 51st Avenue and Tashquith Drive, approximately 0.8 miles; Elliot Road between 75th Avenue and San Juan Avenue, approximately 1.6 miles; and Estrella Drive between 67th Avenue and San Juan Avenue, approximately 1.5 miles. The project was scoped, designed and constructed using federal funds as part of the American Recovery and Reinvestment Act (ARRA). The work includes utility and stakeholder coordination, asphalt milling and paving, asphalt overlay, shoulder build-up, and pavement marking and signing. Construction Cost: \$416,000		
	<input type="checkbox"/>	Check if project performed with current firm	
3.	Casa Grande Elementary School District Parking Lot Asphalt Pavement; Casa Grande, AZ	2014	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Project Manager responsible for preparing construction documents for pavement improvements to 16 parking lots for the City of Casa Grande Elementary School District. The purpose of the project is to extend the useful service life of the existing pavement. Pavement treatments include fill cracks, full depth pavement replacement, and slurry seal application, and restriping the parking lots. Construction Cost: \$372,000		
	<input checked="" type="checkbox"/>	Check if project performed with current firm	
4.	Various Locations Asphalt Concrete Mill & Overlay; Peoria, AZ	2010	2011
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Responsible for pavement preservation on various road segments in the City of Peoria, which includes Beardsley Rd between 83rd Avenue and 99th Avenue, approximately 2 miles; 91st Avenue between Union Hills Drive and Village Parkway, approximately 0.5 miles; Lake Pleasant Road between Beardsley Road and Rose Garden, approximately 0.5 miles. The project was scoped, designed and constructed using federal funds as part of the ARRA. The work includes AC milling and overlay, pavement markings and signing. Construction Cost: \$1,500,000		
	<input type="checkbox"/>	Check if project performed with current firm	
5.	Indian School Road/El Mirage Road Intersection Improvements; Avondale, AZ	2008	2009
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Responsible for the design to widen the intersection which included pavement widening to accommodate turn lanes, new traffic signal, drainage and grading, driveway improvements, new bus bay, utility coordination, signing and striping. Construction Cost: \$500,000		
	<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 Dave Jensen, PE, CFM	b. ROLE IN THIS CONTRACT Civil Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 17	2. WITH CURRENT FIRM 3
d. LOCATION <i>(City and State)</i> Olsson Associates (Chandler, Arizona)			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Master of Science, Civil Engineering, Brigham Young University, 1998 Bachelor of Science, Civil Engineering, Brigham Young University, 1996		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer: AZ, NV Certified Floodplain Manager	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Affiliations: American Public Works Association, Association of State Dam Safety Officials, Arizona Floodplain Managers Association			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Papago Park Dams Assessment; Phoenix, AZ	2013	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Dam-break analysis and downstream inundation analysis for all dams in series and mapped the downstream inundation areas to understand the downstream hazards posed by the dams. Participated in and completed the documentation of a qualitative risk assessment through a failure modes analysis to understand the potential risks associated with the dams. Current tasks include a detailed risk assessment, risk analysis, a threat and vulnerability assessment, an update of the dam-breach modeling to include new survey data and stormwater overtopping, and a detailed hazard assessment using FEMA guidelines based on the fact that 1.5-million people visit the park each year.		
2.	Sonoqui Wash Channelization Phase II, Queen Creek, AZ	2012	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. The Flood Control District of Maricopa County (the District) is in the process of design and construction of a three phase Sonoqui Wash Channelization, a regional drainage solution that will benefit thousands of land owners in the Southeast Phoenix Metropolitan Valley. As part of a multidisciplinary team, Olsson Associates was responsible for providing context sensitive planning and design services to take advantage of multi-use opportunities.		
3.	Arizona Canal Path, Chaparral Road to Indian Bend Wash; Scottsdale, AZ	2014	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Olsson as the prime consultant is providing master planning and design services for this two mile shared use pathway segment completing the City's 14-mile paved portion of the Sun Circle Trail. The project is utilizing Congestion Mitigation and Air Quality CMAQ federal funding. Project partners include SRP, ADOT, FCDMC and Scottsdale Public Art. Olsson is providing public involvement, civil engineering, surveying, landscape architecture and electrical engineering for the City of Scottsdale.		
4.	Little Dreamy Draw Dam Hydrologic/Hydraulic Analysis; Phoenix, AZ	2012	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Development of PMP hydrologic analysis, reservoir routing, dam breach analysis, and downstream inundation mapping for a dam in urban Phoenix. Developed a hydrologic model of the watershed contributing to the dam, completed a dam breach analysis for various scenarios, and mapped the downstream inundation area using unsteady HEC-RAS.		
5.	Neighborhood Drainage Flood Mitigation Study; Apache Junction; AZ	2012	2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Assessment and mitigation of flooding issues in various neighborhoods for the City of Apache Junction. Completed alternatives analysis and developed concept plans and cost estimates for the recommended plan.		



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

a. NAME Duc Dao, PE	b. ROLE IN THIS CONTRACT Civil Engineer, Project Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 22	2. WITH CURRENT FIRM 10
d. LOCATION <i>(City and State)</i> Olsson Associates (Chandler, Arizona)		e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Science, Civil Engineering, University of California-Irvine, 1997	
f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer: AZ		g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>	

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Lafayette Interceptor Drain and Outlet Facility, Arizona Canal to 44th Street; Phoenix, AZ	2013	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer. Responsible for the preparation of all the construction plans, cost estimate, project specifications, and design report, and the hydrologic and hydraulic evaluation analysis of the watershed and drainage system. The storm drain traversed through an affluent residential neighborhood and through busy business areas, and design considerations were made to address resident and business concerns.		
2.	Old Cross Cut Canal Improvements, Indian School Road to Arizona Canal; Phoenix, AZ	2012	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer. 500 linear feet of a dual storm drain system consisting of 120-inch cast-in-place pipe and 102" RGRCP. While this project is short in length, there were many challenging design constraints, including crossing of the Arizona Canal, maintenance of traffic, relocation of power transmission lines, and protection of historical features within the storm drain alignment.		
3.	Sonoqui Wash Channelization Phase III; Queen Creek, AZ	2012	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer. The Flood Control District of Maricopa County (the District) is in the process of design and construction of a three phase Sonoqui Wash Channelization, a regional drainage solution that will benefit thousands of land owners in the Southeast Phoenix Metropolitan Valley. Part of a multidisciplinary team, responsible for providing context sensitive planning and design services to take advantage of multi-use opportunities.		
4.	Arizona Canal Path, Chaparral Road to Indian Bend Wash; Scottsdale, AZ	2014	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Drainage Engineer. Two-mile shared use pathway segment completing the City's 14 mile paved portion of the Sun Circle Trail. The project is utilizing Congestion Mitigation and Air Quality CMAQ federal funding. Project partners include SRP, ADOT, FCDMC and Scottsdale Public Art. Olsson is providing public involvement, civil engineering, surveying, landscape architecture and electrical engineering for the City of Scottsdale.		
5.	Lafayette Interceptor Drain and Outlet Design; Phoenix, AZ	2012	2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Lead Project Engineer. Design of the Lafayette Interceptor Drain and Outlet project. This project is the second segment of the Flood Control District's Arcadia Area Drainage Improvements, a regional flood control project proposed to mitigate flooding upstream of the Arizona Canal in the Arcadia watershed area.		



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

a. NAME Ron Szwiec, PE	b. ROLE IN THIS CONTRACT Civil Engineer, Project Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 24	2. WITH CURRENT FIRM 2
d. LOCATION <i>(City and State)</i> Olsson Associates (Chandler, Arizona)			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Science, Civil Engineering, Michigan State University, 1991		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer: AZ, CO, NV	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Arizona Canal Path, Chaparral Road to Indian Bend Wash; Scottsdale, AZ	2014	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Quality Control Engineer. Two-mile, shared-use pathway segment completing the City's 14-mile paved portion of the Sun Circle Trail. The project is utilizing Congestion Mitigation and Air Quality CMAQ federal funding. Project partners include SRP, ADOT, FCDMC and Scottsdale Public Art. Olsson is providing public involvement, civil engineering, surveying, landscape architecture and electrical engineering for the City of Scottsdale.		
2.	Esperanza Boulevard/I-19 Bicycle and Pedestrian Enhancement; Tucson; AZ	2013	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Transportation Engineer. This Arizona Department of Transportation (ADOT) Transportation enhancement and Scenic Roads Section (TE) sponsored project, will provide new bicycle lanes, ADA-compliant pedestrian curb ramps, benches, and landscaping along both sides of Esperanza Boulevard from Abrego Drive to La Canada Drive.		
3.	Paved Dirt Roads; Fort McDowell Yavapai Nation, AZ	2014	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Transportation Engineer. Design services to realign and pave seven local and collector streets, approximately 4.9 miles, throughout the Yavapai Nation. Existing road widths of 28' to 34' and road profiles were maintained to minimize the disturbance of existing vegetation and drainage patterns. The roads were covered with a pavement structural section consisting of 6" of aggregate base and 3" of asphalt. Drainage improvements consist new pipe culverts at select locations and at-grade water crossings that are treated at the roadway edge with riprap to prevent scour. Existing signs are brought to current reflectivity standards and stripes were painted on the new asphalt pavement.		
4.	219th Avenue Paved Dirt Roads; Surprise, AZ	2012	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Transportation Engineer. Olsson designed the Pave Dirt Roads West of 219th Avenue project consisting of 3.27 miles of local dirt roadways in Surprise. The Clean Air Act uses the National Ambient Air Quality Standards (non-attainment areas) to set limits on airborne particles smaller than 10-micrometers in diameter called PM-10. Paving these roads decreased the amount of PM-10 being produced by traffic on the roads. The project required environmental and cultural assessments, a design concept report, construction documents, project specifications, and a construction cost estimate.		
5.	Ehrenberg I-10 Overpass Area Multi-use Pathway; Ehrenberg, AZ	2013	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Transportation Engineer. The improvements will bring the path into compliance with AASHTO standards. The length of the new path will be a total of 750 feet and will extend from the Frontage Rd. to the existing I-10 bridge walkway. The reconstruction and enhancement of the multi-use path will provide for greater connectivity between both the local communities and states by providing a safer and more accessible route for cycling and walking. Olsson is currently providing ADOT landscape architecture, survey and civil engineering design services.		



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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	
Kim Kleski, PLA, ASLA, LEED AP BC+D	Landscape Architect, Project Manager	1. TOTAL 30	2. WITH CURRENT FIRM 2
d. LOCATION <i>(City and State)</i> Olsson Associates (Phoenix, Arizona)			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Landscape Architecture, Ohio State University, 1995		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Landscape Architect: AZ, OH	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Affiliations: USGBC Arizona Chapter Member, Arizona Landscape Contractors Association, American Society of Landscape Architects, Arizona Association for Economic Development			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Arizona Canal Path, Chaparral Road to Indian Bend Wash; Scottsdale, AZ	2014	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Landscape Architect. Two-mile, shared-use pathway segment completing the City's 14-mile paved portion of the Sun Circle Trail. The project is utilizing Congestion Mitigation and Air Quality CMAQ federal funding. Project partners include SRP, ADOT, FCDMC and Scottsdale Public Art. Olsson is providing public involvement, civil engineering, surveying, landscape architecture and electrical engineering for the City of Scottsdale.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	Lake Havasu Phase II Landscape and Irrigation Enhancement; Lake Havasu City, AZ	2013	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Landscape Architect. Arizona Department of Transportation (ADOT) Transportation Enhancement and Scenic Roads Section (TE) sponsored project, which provides multi-use pathway improvements along SR95 from Mulberry Avenue to the Water Safety Center. Improvements include landscape and irrigation as well as site amenities along the one mile corridor. Olsson as the prime consultant is providing landscape architecture and survey for this transportation enhancement project.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	Centennial Park; Chandler, AZ	2013	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Landscape Architect. 12-acre Centennial neighborhood park. The project includes a multi-use pathway, ramadas, volleyball and basketball courts, pedestrian lighting, and landscape and irrigation improvements. Olsson is providing landscape architecture, civil engineering, electrical engineering and survey design services.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	Broadway Road / Avenida Rio Salado; Phoenix, AZ	2014	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Landscape Architect, Irrigation Designer, Public Improvement Coordination, Artist Coordination. Street improvement project included new sidewalks, bike lanes, landscaping and street lighting from Seventh St. to 51st Ave. Kim worked on the landscape design from concept to 75% CD's (10 months). The project involved close coordination with local artists: Matt Moore and Mark Ryan. Other stakeholders included the City of Phoenix Parks, Streets, and Arts and Culture Departments.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	Ehrenberg I-10 Overpass Area Multi-use Pathway; Ehrenberg, AZ	2013	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Landscape Architect. The improvements will bring the path into compliance with AASHTO standards. The length of the new path will be a total of 750 feet and will extend from the Frontage Rd. to the existing I-10 bridge walkway. The reconstruction and enhancement of the multi-use path will provide for greater connectivity between both the local communities and states by providing a safer and more accessible route for cycling and walking. Olsson is currently providing ADOT landscape architecture, survey and civil engineering design services.	<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 Ken Fairchild, PE	b. ROLE IN THIS CONTRACT Electrical Engineer, Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 42	2. WITH CURRENT FIRM 41
d. LOCATION <i>(City and State)</i> Olsson Associates (Lincoln, Nebraska)			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Science, Electrical Engineering, University of Nebraska-Lincoln, 1972		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer: AZ	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Affiliations: Public Power Association			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Arizona Canal Path, Chaparral Road to Indian Bend Wash; Scottsdale, AZ	2014	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical Task Leader. Two-mile, shared-use pathway segment completing the City's 14-mile paved portion of the Sun Circle Trail. The project is utilizing Congestion Mitigation and Air Quality CMAQ federal funding. Project partners include SRP, ADOT, FCDMC and Scottsdale Public Art. Olsson is providing public involvement, civil engineering, surveying, landscape architecture and electrical engineering for the City of Scottsdale.		
2.	Diablo Stadium Sports Field Lighting; Tempe, AZ	2012	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical Engineer. Olsson Associate's Non-Destructive Team (NDT) inspected all the poles at Diablo Stadium, the spring training home of the Anaheim Angels, in Tempe, AZ. The project provided 100/70 foot-candle levels in the field with a control scheme implemented to reduce the levels to 50/30 fc. Electrical task leader for dedicated "Maintenance" lighting system was designed to provide adequate lighting for after game cleanup without having the entire lighting system energized.		
3.	Centennial Park; Chandler, AZ	2013	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical Task Leader. 12-acre Centennial neighborhood park. The project includes a multi-use pathway, ramadas, volleyball and basketball courts, pedestrian lighting, and landscape and irrigation improvements. Olsson is providing landscape architecture, civil engineering, electrical engineering and survey design services.		
4.	Athletic Field Lighting Improvements; Tempe, AZ	2012	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical Task Leader. Conducting a lighting evaluation study for the City of Tempe. The purpose of the study was to evaluate the major components of cost for the proposed athletic fields lighting improvements at the fifteen (15) City of Tempe (COT) parks and/or sports complexes all of which were in the 30 to 40 year old range. The prototype designs included photometric analysis, fixture count, and proposed pole locations. The evaluation also included capacity availability and physical inspection of the Service Entrance Section (SES) at each site.		
5.	Roadrunner Park; Chandler, AZ	2013	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical Task Leader. Lighting design at this new neighborhood park. Olsson provided expertise in landscape architecture, civil and electrical engineering. The 10.6 acre park is nestled within an existing development and surrounded by private residences. Particular attention was devoted to Roosevelt Water Conservation District easements located within and adjacent to the site. The design team was able to implement several creative strategies to visually mitigate the District facilities while maintaining functionality for the District.		



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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	
Reece Henry, PLS	Land Surveyor	1. TOTAL 20	2. WITH CURRENT FIRM 1
d. LOCATION <i>(City and State)</i> Olsson Associates (Phoenix, Arizona)		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Land Surveyor: AZ	
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> N/A		g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Affiliations: AZ Professional Land Surveyors, National Society of Professional Surveyors, Geographic and Land Information Society	

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Arizona Canal Path, Chaparral Road to Indian Bend Wash; Scottsdale, AZ	2014	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Surveyor. Responsible for the preparing construction documents for approximately 2 miles of canal path from Chaparral Road to Indian Bend Wash. The improvements consist of new 10 ft. multi-use concrete path, AC pavement curb, gutter, sidewalk, ADA ramps, stamped asphalt medians, and two 14 ft. wide pedestrian bridges. Traffic components will include traffic signing, pavement marking, and two new "HAWK" signals. Addition work includes pedestrian lighting relocation and miscellaneous removals. Construction Cost: \$2,400,000	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	Sonoqui Wash Channelization Phase III; Queen Creek, AZ	2014	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Surveyor. The Flood Control District of Maricopa County (the District) is in the process of design and construction of a three phase Sonoqui Wash Channelization, a regional drainage solution that will benefit thousands of land owners in the Southeast Phoenix Metropolitan Valley. Part of a multidisciplinary team, responsible for providing context sensitive planning and design services to take advantage of multi-use opportunities.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	Casa Grande Elementary School District Parking Lot Asphalt Pavement; Casa Grande, AZ	2014	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Surveyor. Project Manager responsible for preparing construction documents for pavement improvements to 16 parking lots for the City of Casa Grande Elementary School District. The purpose of the project is to extend the useful service life of the existing pavement. Pavement treatments include fill cracks, full depth pavement replacement, and slurry seal application, and restriping the parking lots. Construction Cost: \$372,000	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	City of Scottsdale Water Campus Drainage Improvements; Scottsdale, AZ	2014	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Surveyor. Olsson is providing design services for multiple stormwater conveyance and drainage facilities within the Water Campus in North Scottsdale. Olsson has provided supplemental survey data to the original design topography and corrected several benchmark errors and inconsistencies.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	Indian School Road/El Mirage Road Intersection Improvements; Avondale, AZ	2014	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Surveyor. Design services to realign and pave seven local and collector streets, approximately 4.9 miles, throughout the Yavapai Nation. Existing road widths of 28' to 34' and road profiles were maintained to minimize the disturbance of existing vegetation and drainage patterns. The roads were covered with a pavement structural section consisting of 6" of aggregate base and 3" of asphalt. Drainage improvements consist new pipe culverts at select locations and at-grade water crossings that are treated at the roadway edge with riprap to prevent scour. Existing signs are brought to current reflectivity standards and stripes were painted on the new asphalt pavement.	<input checked="" 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>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Lafayette Interceptor Drain and Outlet Design; Phoenix, AZ	2013	2014

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Flood Control District of Maricopa County (FCDMC) and City of Phoenix Bobbie Ohler (FCDMC) 602-506-1501	\$775,955 / \$775,955	\$775,955

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

Olsson Associates was selected by the Flood Control District of Maricopa County (Flood Control District) and the City of Phoenix as the prime consultant for the design of the Lafayette Interceptor Drain and Outlet project. This project is the second segment of the Flood Control District's Arcadia Area Drainage Improvements, a regional flood control project proposed to mitigate flooding upstream of the Arizona Canal in the Arcadia watershed area. The scope of work included:

- Project management during design
- Ground survey to supplement the aerial topography
- Geotechnical investigation and testing to determine design parameters
- Evaluation of the regional and local hydrology
- Hydraulic analysis of the storm drain system
- Design of the storm drain system, including horizontal alignment and vertical profile to minimize utility conflicts
- Structural design of six transition structures and a custom design catch basin to avoid utility conflicts
- Utility coordination and relocation design of impacted water and sewer lines
- Preparation of construction documents (e.g., plans, special provisions, cost estimate, and design report)
- Post-design support during construction



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a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Arizona Canal Path, Chaparral Road to Indian Bend Wash; Scottsdale, AZ	2013-2015	2016

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
City of Scottsdale, AZ Paul Basha, Transportation Director 480-312-7651 Anna Leyva, Capital Projects Management 480-312-7769	\$4,200,000 / \$1,866,868	TBD

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

The City of Scottsdale has selected Olsson Associates as the prime consultant to provide master planning and design services for the Arizona Canal Shared-Use Pathway, from Chaparral Road to Indian Bend Road. This two-mile shared-use pathway segment completes the city's 14-mile portion of the Sun Circle Trail, which provides a network of trails along the 68 miles of canal throughout Maricopa County. This pathway segment also ties into the city of Scottsdale's 25-mile paved pathway system located throughout the Indian Bend Wash pathway system. The proposed project area is situated predominately within the Salt River Project jurisdictional right-of-way (ROW) limits. The project limits also include areas of the Flood Control District of Maricopa County's (FCDMC) ROW as well. The project is utilizing both the city of Scottsdale and federal funding acquired through the Congestion Mitigation and Air Quality (CMAQ) program.

Key project stakeholders include the city of Scottsdale, the Federal Highway Administration, the Arizona Department of Transportation, the Salt River Project, and the FCDMC, as well as several Scottsdale neighborhoods.

Regional destinations accessible from this network of pathways include Papago Park which is home to the Phoenix Zoo and the Desert Botanical Gardens. Connections to the Cross Cut Canal Trail provide access to Tempe Town Lake and Tempe Beach Park located within the downtown Tempe Mill Avenue District. Local area destinations within the Arizona Canal Pathway include the Indian Bend Wash Greenbelt Recreation Corridor which is home to world class golf courses, an extensive network of multi-use pathways, and several city of Scottsdale parks.

The project area is lined with residential neighborhoods. A key element during the master-planning process will be the placement of these neighborhood connections to provide access to the proposed pathway. Potential neighborhood connections include Vista Drive, 76th Street, Miller Road, Jackrabbit Road, and Lincoln Drive.

Olsson and the city are using public meetings to involve neighborhood groups and help determine where neighborhood connections should be placed.

Olsson is providing master planning, public involvement, landscape architecture, survey, as well as civil and structural engineering.



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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	
Casa Grande Elementary School District Parking Lot Asphalt Pavement Rehabilitation Treatments; Casa Grande, AZ	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
	2013	2014

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Casa Grande Elementary School District Dennis York Office 520-876-3204	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$400,000 / \$372,000	e. TOTAL COST OF PROJECT \$372,000
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h. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

The Casa Grande Elementary School District selected Olsson to prepare construction documents for pavement improvements to 16 parking lots for the City of Casa Grande Elementary School District. The purpose of the project is to extend the useful service life of the existing pavement. Pavement treatments include fill cracks, full depth pavement replacement, and slurry seal application, and restriping the parking lots. The following parking lots received pavement rehabilitation treatments.



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a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Old Crosscut Canal Improvements; Phoenix, AZ	2012	2013

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Flood Control District of Maricopa County (FCDMC) and City of Phoenix, AZ Bobbie Ohler (FCDMC) 602-506-2943 Hasan Mushtaq (City of Phoenix) 602-262-4026	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$251,474 / \$280,531	e. TOTAL COST OF PROJECT \$309,588 (After the design effort was started, the scope of work was expanded to include the crossing of the Arizona Canal. \$29,057 along with the additional scope of work was added to the contract. This addition was accommodated within the original schedule.)
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i. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Olsson served as the prime consultant for this fast-track project, which is Phase 1 of the overall Arcadia area drainage improvements. Phase 1 includes the undercrossing of the Arizona Canal and the replacement of the Old Cross Cut Canal (OCCC) earthen channel with an underground drainage system. Phase 1 is subdivided into Phase 1A, which consists of design and construction of the storm drain system from Indian School Road up to the Arizona Canal, and Phase 1B which includes the design of the undercrossing. Future phases will construct the storm drain portion to the north of the Arizona canal.

The Old Cross Cut Canal Improvements Project was implemented to enclose the Old Cross Cut Canal into a closed storm drain system and to provide an outlet for a future storm drain system that will mitigate flooding for properties within the Arcadia area watershed and to reduce flooding along the upstream side of the Arizona Canal. Prior to this project there were no drainage facilities to outlet stormwater from the Arcadia drainage area. This project will construct a storm drain system to collect and convey flows from the Arcadia drainage area into the Old Cross Cut Canal (OCCC) north of Indian School Road. The future system will provide flood protection in excess of the 10-year level. Additionally, the existing OCCC earthen ditch will be piped underground and be connected to the existing 2-10'x10' box culvert, which ultimately drains to the Grand Canal. Key design features of this project include:

- **Design of the inlet structure at the SRP headgate structure.** An IGA with SRP required the project to accommodate up to 1,000 cfs of discharge from the Arizona Canal at the headgate structure. SRP also requested that the design of the inlet structure and storm drain system not submerge their gates. In addition, District design guidelines require the velocity in the storm drain to be less than 15 feet per second. Olsson worked with the District engineers and designed a stepped spillway with a USBR Type III basin to dissipate energy as the water dropped almost 13 feet from the SRP headgate structure to the entrance of the storm drain.

This project is a joint effort between the Flood Control District of Maricopa County (FCDMC) and the City of Phoenix (COP), with the District taking the lead in the design and the City taking the lead in the construction. This project is being delivered using the CMAR delivery method.



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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>
Paved Dirt Roads; Fort McDowell Yavapai Nation, AZ	2014	2014

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Fort McDowell Yavapai Nation (Nation) Joe Kanovich, Project Manager 480-789-7743 Erika McCalvin, Planning Manager 480-789-7742	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$472,273 / \$496,933	e. TOTAL COST OF PROJECT \$2,864,688
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j. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

The Fort McDowell Yavapai Nation (FMYN) received federal funding under the Congestion Mitigation Air Quality (CMAQ) program for paving dirt roads within the FMYN. Approximately 4.9 miles of roads were targeted for paving, triggering compliance with Federal Highways Administration (FHWA) and Arizona Department of Transportation (ADOT), who administer CMAQ funds. The Nation and ADOT established an intergovernmental agreement (IGA) and the project was administered through ADOT's LPA Section.

As the prime consultant, Olsson was selected by the FMYN to provide design services to pave seven dirt roads in close proximity with the intersection of SR 87 and Fort McDowell Road within the Nation. Olsson provided design expertise in civil, drainage, traffic, transportation, structural engineering and surveying. The Olsson design team provided the following design deliverables: DCR, drainage report, environmental clearance and cultural report, geotechnical report, construction documents, project specifications and construction cost estimate. Primary design attributes include the following:

- **Alignment.** All roadways within this project were 28'-34' wide and were located on existing roadway grading as much as possible. At-grade water crossings required reduced speed limits and water level warning signs to provide safety to the public.
- **Drainage Improvements.** To provide paved roadways and reduce PM-10 without adding extra cost to the project, at-grade water crossings were designed with riprap for scour protection to allow flow over the roadway but still protecting the asphalt.
- **Traffic Engineering.** To limit the cost of traffic related items, since the goal of this project was to reduce PM-10, existing items were relocated. On this project the existing sign configuration was upgraded to provide a safer roadway. Some additional roadway striping was added where appropriate.
- **Internal, External, and Agency Coordination.** Coordination on the FMYN project involved the client, agencies, utilities, design team, and the members of the Nation. On this project Olsson held regular meetings with the client at milestone dates to insure appropriate communication. ADOT was contacted on a regular basis to keep all parties informed on where the project design was. With using federal funds several requirements were needed. One requirement that was important to get started on early is the environmental clearance. Olsson worked with the Del Sol Group to provide the details of the project early on so that they could provide the environmental documentation to get the necessary clearances before on-site construction activity was done. A less involved environmental clearance was necessary for geotechnical investigation on the projects. Along with these examples the entire project team was kept up to date on how the project was progressing and if any design related coordination was needed.
- **Funding.** Funding for each project is usually set up by the sponsor agency and MAG. The construction amount was estimated and programmed so the funds could be allocated as necessary to complete the project. Olsson helped the FMYN apply for funds usually allocated in large part to municipalities. Since the Indian communities are physically in the same area as other MAG funded municipalities, air quality is also important to them. This benefit is why Olsson has helped FMYN become more familiar with the funds available and coordinated with ADOT to help the FMYN understand what ADOT required so that FMYN could acquire the funds provided from the federal government.



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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.)

See attachment for further information.

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:	60%
b. Percentage of Total Work Attributable to Non-Government Work:	40%

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

Signature: _____

Date: December 18, 2015

Name: Len Swartz, PE, LEED AP BC+D

Title: Regional Manager