



Offer and Acceptance

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

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

PAGE
1

Offeror: LSW Engineers Arizona, 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.

LSW Engineers Arizona, Inc.

Company Name

2333 W. Northern Ave., Suite 9

Address

Phoenix

City

AZ

State

85021

Zip

ljones@lswphx.com

Contact Email Address

Signature of Person Authorized to Sign Offer

Lance A. Jones

Printed Name

President

Title

Phone: 602-249-1320

Fax: 602-336-3276

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:	LSW Engineers Arizona, Inc.
b. FIRM (OR BRANCH OFFICE) STREET:	2333 W. Northern Avenue, Suite 9
c. FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d. FIRM (OR BRANCH OFFICE) STATE:	AZ
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85021
f. YEAR ESTABLISHED:	1961
(g1). OWNERSHIP - TYPE:	Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	Small Business
h. POINT OF CONTACT NAME AND TITLE:	Lance A. Jones
i. POINT OF CONTACT TELEPHONE NUMBER:	602-249-1320
j. POINT OF CONTACT E-MAIL ADDRESS:	ljones@lswphx.com
k. NAME OF FIRM (If block 1a is a branch office):	



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

a. Approximate No. of Projects	b. Experience	c. Revenue Index Number (see below)
9	Airports; Terminals and Hangars; Freight Handling	3
6	Automation/Controls	2
113	Computer Facilities	4
8	Educational Facilities; Classrooms	4
5	Energy Conservation; New Energy Sources	2
15	Fire Protection	3
21	Hospital and Medical Facilities	3
32	Heating; Ventilation; Air Conditioning	4
3	Housing	3
5	Lighting (Interior)	1
3	Lighting (Exterior)	1
2	Office/Industrial Park	1
10	Power Gen/Transformer/Distribution	3
1	Prisons and Correctional Facilities	5
3	Public Safety Facilities	2
5	Refrigeration Plants/Systems	3
10	Security Systems; Intruder and Smoke Detection	3
26	Tenant Improvement	3
8	Utilities	3

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

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



ATTACHMENT I – General Qualifications

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

a. NAME Lance A. Jones, PE	b. ROLE IN THIS CONTRACT Principal-in-Charge	c. YEARS EXPERIENCE	
		1. TOTAL 32	2. WITH CURRENT FIRM 22
d. LOCATION <i>(City and State)</i> Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Science / Mechanical Engineering		f. PROFESSIONAL TRAINING – REGISTRATIONS Arizona No. 20975, CA, FL, IL, IN, NV, PA, UT, WA	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> American Society of Heating Refrigeration and Air Conditioning Engineers (ASHRAE), American Society of Plumbing Engineers (ASPE), Air Conditioning Contractors of American (ACCA), American Council of Engineering Companies (ACEC) – Current Board Member			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> ASPC Yuma Cheyenne Unit Kitchen/Laundry Restoration Yuma, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Lance is the Principal-in-Charge for the design of new D/X VAV cooling systems to replace the evaporative cooling system in the kitchen and new d/x systems for cooling the north and south dining spaces. Construction cost is approximately \$7,114,911.	Professional Services 2015	Construction (if applicable) 2015
<input checked="" type="checkbox"/> Check if project performed with current firm			
2.	(1) TITLE AND LOCATION <i>(City and State)</i> California Department of Corrections & Rehabilitation R.J. Donovan Prison Infill, San Diego, CA	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Lance is the Principal-in-Charge and Project Manager for a Level II facility with three housing units that will occupy 792 beds. Other structures include Facility Support Services, Program Support Services, Family Visiting Building, and Warehouse. Construction cost is approx. \$165,000,000 with a construction completion in early 2016.	Professional Services	Construction (if applicable)
<input checked="" type="checkbox"/> Check if project performed with current firm			
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Imperial County Adult Detention Facility El Centro, CA	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Lance is the Principal-in-Charge for a new medium security adult detention center consisting of two buildings with a total of 81,000 SF that will occupy 270 beds. Construction cost is approx. \$29,000,000 with an estimated completion in 2017.	Professional Services	Construction (if applicable)
<input checked="" type="checkbox"/> Check if project performed with current firm			
4.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Cottonwood Emergency Communication Center Cottonwood, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Lance was the Project Manager for a new 4,000 SF Communication Center for dispatching police and fire/EMS. Construction cost was \$2,411,000.	Professional Services 2014	Construction (if applicable) 2014
<input checked="" type="checkbox"/> Check if project performed with current firm			
5.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Goodyear Operations Center Goodyear, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Lance was the Project Manager for a new 5,000 SF 911 dispatch center, which included fleet maintenance and a wash and fuel station. Construction cost was \$6,891,000.	Professional Services 2014	Construction (if applicable) 2014
<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 James H. D’Andrea, PE, LEED AP, C.E.A	b. ROLE IN THIS CONTRACT Project Manager Mechanical Engineer	c. YEARS EXPERIENCE <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">1. TOTAL 31</td> <td style="width:50%;">2. WITH CURRENT FIRM 24</td> </tr> </table>		1. TOTAL 31	2. WITH CURRENT FIRM 24
1. TOTAL 31	2. WITH CURRENT FIRM 24				
d. LOCATION (City and State) Phoenix, Arizona					
e. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science/Business Energy Management		f. PROFESSIONAL TRAINING – REGISTRATIONS Arizona No. 30552			
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Association of Energy Engineers (AEE)					

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) City of Tempe Branch Library Central Plant Upgrade Tempe, AZ	(2) YEAR COMPLETED <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Professional Services 2014</td> <td style="width:50%;">Construction (if applicable) 2014</td> </tr> </table>		Professional Services 2014	Construction (if applicable) 2014
	Professional Services 2014	Construction (if applicable) 2014			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
Jim was the Project Manager for the replacement of the existing cooling towers, condenser water pumps, primary chilled water pumps, secondary chilled water pumps and related piping and controls. The addition of a new cooling tower filtration system was also included. Construction costs were \$300,000.					
2.	(1) TITLE AND LOCATION (City and State) City of Tempe East Valley Bus Operations and Maintenance Facility HVAC Systems Assessment, Tempe, AZ	(2) YEAR COMPLETED <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Professional Services</td> <td style="width:50%;">Construction (if applicable)</td> </tr> </table>		Professional Services	Construction (if applicable)
	Professional Services	Construction (if applicable)			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
Jim was the Project Manager for the design of the existing underfloor HVAC system serving the Administration Building, the split system HVAC units in the Maintenance Building, and the HVAC system serving the Fuel building. Construction cost is approximately \$1,177,000. Construction is schedule to complete in 2016.					
3.	(1) TITLE AND LOCATION (City and State) City of Tempe City Hall HVAC Improvements Tempe, AZ	(2) YEAR COMPLETED <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Professional Services</td> <td style="width:50%;">Construction (if applicable)</td> </tr> </table>		Professional Services	Construction (if applicable)
	Professional Services	Construction (if applicable)			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
Jim is the Project Manager for the replacement of multi and single zone air handling units and restroom exhaust fans throughout the City Hall including the bike police area, council chambers, and south mechanical room serving the Garden Level. Construction budget is approximately \$600,000 and is estimated to complete in April 2016.					
4.	(1) TITLE AND LOCATION (City and State) ADOA Executive Tower SES Replacement Phoenix, AZ	(2) YEAR COMPLETED <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Professional Services 2015</td> <td style="width:50%;">Construction (if applicable) 2015</td> </tr> </table>		Professional Services 2015	Construction (if applicable) 2015
	Professional Services 2015	Construction (if applicable) 2015			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
Jim provided mechanical design for the building. Construction was \$1,302,14.6.					
5.	(1) TITLE AND LOCATION (City and State) City of Tempe City Hall Piping Replacement Tempe, AZ	(2) YEAR COMPLETED <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Professional Services 2014</td> <td style="width:50%;">Construction (if applicable) 2014</td> </tr> </table>		Professional Services 2014	Construction (if applicable) 2014
	Professional Services 2014	Construction (if applicable) 2014			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
Jim was the Project Manager engineering design for the replacement of the existing underground hot and chilled water piping serving City Hall and within the confines of the City Hall complex. The new replacement piping was located pre-insulated, direct buried piping located around numerous existing underground utilities. Construction cost was \$541,000.					



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

a. NAME Spencer D. Cook, PE	b. ROLE IN THIS CONTRACT Mechanical Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 7	2. WITH CURRENT FIRM 7
d. LOCATION (City and State) Phoenix, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science/Architectural Engineering		f. PROFESSIONAL TRAINING – REGISTRATIONS Arizona No. 54180	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) City of Tempe Branch Library Central Plant Upgrade Tempe, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Spencer provided mechanical engineering design for the replacement of the existing cooling towers, condenser water pumps, primary chilled water pumps, secondary chilled water pumps and related piping and controls. The addition of a new cooling tower filtration system was also included. Construction costs were \$300,000.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION (City and State) City of Tempe East Valley Bus Operations and Maintenance Facility HVAC Systems Assessment, Tempe, AZ	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Spencer provided mechanical design of the existing underfloor HVAC system serving the Administration Building, the split system HVAC units in the Maintenance Building, and the HVAC system serving the Fuel building. The construction cost is approximately \$1,177,000 with construction completing in 2016	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION (City and State) City of Tempe City Hall HVAC Improvements Tempe, AZ	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Spencer provided mechanical design for the replacement of multi and single zone air handling units and restroom exhaust fans throughout the City Hall including the bike police area, council chambers, and south mechanical room serving the Garden Level. Construction budget is approximately \$600,000 and is estimated to complete in April 2016.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION (City and State) City of Scottsdale Fire Station 613, Scottsdale, AZ	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Spencer is the Project Manager for a new 9,000 SF fire station consisting of sleeping quarters, wellness-fitness center, day room, dining and kitchen area, offices and two apparatus bays. Construction cost is approximately \$3,000,000 with a construction completion in 2016	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION (City and State) City of Tempe City Hall Piping Replacement Tempe, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Spencer provided engineering design for the replacement of the existing underground hot and chilled water piping serving City Hall and within the confines of the City Hall complex. The new replacement piping was located pre-insulated, direct buried piping located around numerous existing underground utilities. Construction cost was \$541,000.	<input checked="" type="checkbox"/>	Check if project performed with current firm



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

a. NAME Rick Patton	b. ROLE IN THIS CONTRACT Senior Mechanical/Plumbing Designer	c. YEARS EXPERIENCE	
		1. TOTAL 30	2. WITH CURRENT FIRM 25
d. LOCATION (City and State) Phoenix, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION)		f. PROFESSIONAL TRAINING – REGISTRATIONS Engineering Courses, AutoCAD Training	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) American Society of Heating Refrigeration and Air Conditioning Engineers (ASHRAE), American Society of Plumbing Engineers (ASPE), Air Conditioning Contractors of America (ACCA), American Council of Engineering Companies (ACEC) – Current Board Member			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) ASPC Yuma Cheyenne Unit Kitchen/Laundry Restoration Yuma, AZ	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Rick provided mechanical and plumbing design for the replacement of the evaporative cooling system in the kitchen and a new d/x systems for cooling the north and south dining spaces. Construction cost was \$7,114,911	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION (City and State) ADOA Executive Tower SES Replacement Phoenix, AZ	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Rick provided mechanical design for the building. Construction cost is \$1,302,146.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION (City and State) California Department of Corrections & Rehabilitation R.J. Donovan Prison Infill, San Diego, CA	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Rick is providing mechanical and plumbing design for a Level II facility with three housing units that will occupy 792 beds. Other structures include Facility Support Services, Program Support Services, Family Visiting Building, and Warehouse. Construction cost is approx. \$165,000,000 with a construction completion in early 2016.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION (City and State) City of Cottonwood Emergency Communication Center Cottonwood, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Lance was the Project Manager for a new 4,000 SF Communication Center for dispatching police and fire/EMS. Construction cost was \$2,411,000.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION (City and State) City of Goodyear Operations Center Goodyear, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Lance was the Project Manager for a new 5,000 SF 911 dispatch center, which included fleet maintenance and a wash and fuel station. Construction cost was \$6,891,000.	<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 Mark D. Ralston, PE, LEED AP		b. ROLE IN THIS CONTRACT Electrical Engineer		c. YEARS EXPERIENCE	
		1. TOTAL 30	2. WITH CURRENT FIRM 30		
d. LOCATION (City and State) Phoenix, Arizona					
e. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science in Design / Electrical Engineering			f. PROFESSIONAL TRAINING – REGISTRATIONS Arizona No. 39543, CA, IL, NM, NV, TX		
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Illuminating Engineering Society of North America					

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) City of Scottsdale Fire Station 613, Scottsdale, AZ	(2) YEAR COMPLETED	
		Professional Services	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mark is the Electrical Engineer for a new 9,000 SF fire station consisting of sleeping quarters, wellness-fitness center, day room, dining and kitchen area, offices and two apparatus bays. Construction cost is approximately \$3,000,000 with a construction completion in 2016	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION (City and State) City of Tempe SES Replacement	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mark is the Project Manager for the replacement of the existing SES and associated electrical distribution equipment. The existing APS transformer within the below grade vault will be removed and the abandoned vault will be filled in. The electrical systems will include design of the electrical power distribution/connection to the existing equipment, sizing/location of the main SES and distribution switchgear and site lighting. Construction budget is \$525,000 with a completion date in 2016	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION (City and State) City of Scottsdale Eldorado Park Electrical Distribution Scottsdale, AZ	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mark is the Project Manager for the re-feed and replacement of the existing soccer lighting panel boards, transformer, and miscellaneous receptacles, along with new re-feed of the existing restroom building power source from the 120/208V soccer panel	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION (City and State) City of Phoenix Sunnyslope Manor Fire Alarm Replacement Phoenix, AZ	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mark is the Project Manager or the fire alarm replacement of a three story, 116 unit, 95,391 SF senior residential apartment building. Construction budget is approximately \$325,000 SF. Construction is estimated to complete March 2016.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION (City and State) City of Scottsdale McKellips Food Bank SES Replacement Scottsdale, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mark is the Project Manager for the one-for-one replacement of the 800 amp SES currently serving the food bank facility. Construction budget is \$125,000 with a construction completion of January 2016.	<input checked="" type="checkbox"/>	Check if project performed with current firm



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a. NAME Gerald E. Katafiasz, PE, RCDD	b. ROLE IN THIS CONTRACT Electrical Engineer / Technology Designer	c. YEARS EXPERIENCE	
		1. TOTAL 34	2. WITH CURRENT FIRM 13
d. LOCATION <i>(City and State)</i> Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Electronics Engineering Technology/Electrical Engineering		f. PROFESSIONAL TRAINING – REGISTRATIONS Arizona No. 37828, CA, HI, NM, NV, OH, PA, UT, WA	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Building Industry Consulting Services International Inc. (BICSI) - Registered Communication Distribution Designer (RCDD)			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> ASPC Yuma Cheyenne Unit Kitchen/Laundry Restoration Yuma, AZ	(2) YEAR COMPLETED
		Professional Services 2015
		Construction (if applicable) 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 Gerry was the Electrical Engineer for the replacement of the evaporative cooling system in the kitchen and a new d/x systems for cooling the north and south dining spaces. Construction cost was \$7,114,911	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Arizona Exposition & State Fair Primary Electrical Service Phoenix, AZ	(2) YEAR COMPLETED
		Professional Services 2014
		Construction (if applicable) 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 Gerry provided engineering services for the upgrades to the primary electrical distribution system at the Midway of the Arizona State Fairgrounds. Demand loads during the State and County Fairs are substantially higher than demand loads during the remainder of the year. Under the new electrical utility rates, these high peaks are sufficient to push these meters eight times greater. The project included splitting the power distribution and usage into multiple meters to avoid the upcharge. Construction cost was \$259,000.	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> California Department of Corrections & Rehabilitation R.J. Donovan Prison Infill, San Diego, CA	(2) YEAR COMPLETED
		Professional Services
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Gerry is provided technology design for a Level II facility with three housing units that will occupy 792 beds. Other structures include Facility Support Services, Program Support Services, Family Visiting Building, and Warehouse. Construction cost is approx. \$165,000,000 with a construction completion in early 2016.	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Cottonwood Emergency Communication Center Cottonwood, AZ	(2) YEAR COMPLETED
		Professional Services 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 Gerry was the Electrical Engineer for a new 4,000 SF Communication Center for dispatching police and fire/EMS. Construction cost was \$2,411,000.	
5.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Goodyear Operations Center Goodyear, AZ	(2) YEAR COMPLETED
		Professional Services 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 Gerry was the Electrical Engineer for a new 5,000 SF 911 dispatch center, which included fleet maintenance and a wash and fuel station. Construction cost was \$6,891,000.	



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

a. NAME Robert G. Newton	b. ROLE IN THIS CONTRACT Senior Electrical Designer	c. YEARS EXPERIENCE	
		1. TOTAL 32	2. WITH CURRENT FIRM 12
d. LOCATION <i>(City and State)</i> Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i>		f. PROFESSIONAL TRAINING – REGISTRATIONS	
• g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Certified Electrical Inspector (IAEI)			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Tempe Branch Library Central Plant Upgrade Tempe, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 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 Rob provided Electrical design for the replacement of the existing cooling towers, condenser water pumps, primary chilled water pumps, secondary chilled water pumps and related piping and controls. The addition of a new cooling tower filtration system was also included. Construction costs were \$300,000.		
2.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Tempe East Valley Bus Operations and Maintenance Facility HVAC Systems Assessment, Tempe, AZ	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Rob provided electrical design of the existing underfloor HVAC system serving the Administration Building, the split system HVAC units in the Maintenance Building, and the HVAC system serving the Fuel building. The construction cost is approximately \$1,177,000 with construction completing in 2016.		
3.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Tempe City Hall HVAC Improvements Tempe, AZ	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Rob provided electrical design for the replacement of multi and single zone air handling units and restroom exhaust fans throughout the City Hall including the bike police area, council chambers, and south mechanical room serving the Garden Level. Construction budget is approximately \$600,000 and is estimated to complete in April 2016.		
4.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Scottsdale Fire Station 613, Scottsdale, AZ	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Rob provided electrical design a new 9,000 SF fire station consisting of sleeping quarters, wellness-fitness center, day room, dining and kitchen area, offices and two apparatus bays. Construction cost is approximately \$3,000,000 with a construction completion in 2016.		
5.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Goodyear Operations Center Goodyear, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 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 Rob provided electrical design for a new 5,000 SF 911 dispatch center, which included fleet maintenance and a wash and fuel station. Construction cost was \$6,891,000.		



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

a. NAME Timothy M. McMahon	b. ROLE IN THIS CONTRACT Construction Administration	c. YEARS EXPERIENCE	
		1. TOTAL 12	2. WITH CURRENT FIRM 2
d. LOCATION <i>(City and State)</i> Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Associates of Applied Science		f. PROFESSIONAL TRAINING – REGISTRATIONS Construction trade, sheet metal	
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.	ADOA Executive Tower SES Replacement Phoenix, AZ	2015	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Tim is currently providing construction administration services for the electrical service modifications and for SES replacements requiring multiple electrical service shutdowns throughout the building. Construction cost was \$1,302,146 .	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	ASPC Yuma Cheyenne Unit Kitchen/Laundry Restoration Yuma, AZ	2015	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Tim is currently providing construction administration services for new D/X VAV cooling systems to replace the evaporative cooling system in the kitchen and new d/x systems for cooling the north and south dining spaces. Construction cost was \$7,114,911.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	California Department of Corrections & Rehabilitation R.J. Donovan Prison Infill, San Diego, CA		
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Tim is currently provided construction administration services for a new Level II facility with three housing units that will occupy 792 beds. Other structures include Facility Support Services, Program Support Services, Family Visiting Building, and Warehouse. Construction cost is approx. \$165,000,000 with a construction completion in early 2016.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	Arizona Exposition & State Fair Primary Electrical Service Phoenix, AZ	2014	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Tim provided construction administration services for the upgrades to the primary electrical distribution system at the Midway of the Arizona State Fairgrounds. The project included splitting the power distribution and usage into multiple meters to avoid the upcharge. Construction cost was \$259,000.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	John C Lincoln North Mountain Central Plant Upgrade Phoenix, AZ	2015	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Tim provided construction administration services for the upgrades to the existing central plant. Construction cost was \$7,200,404.	<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	
ASPC Yuma - Cheyenne Unit Kitchen Remodel, Yuma, AZ	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
	2015	2015

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Arizona Department of Corrections	\$7,200,000	\$7,111,911

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

LSW provided mechanical, plumbing and electrical design and construction administration for the replacement of HVAC, plumbing and electrical systems for major areas of the kitchen and laundry that were damaged or needed replaced to allow for major structural repairs. The major systems included a new D/X VAV cooling systems to replace the evaporative cooling system in the kitchen and new D/X systems for cooling the north and south dining spaces. The laundry received new ground mounted evaporative cooler and heating units to replace similar rooftop units.

The work involved extensive site investigation because of the extent of damage and the amount of systems affected. Additionally, since all of this work occurs in an operating prison there was significant work involved in making sure essential services remained functioning. In addition, this project involved having a contractor on board early to provide pricing support. This resulted in a positive cooperative work effort to keep this very complicated project on budget.



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

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

<p>a. TITLE AND LOCATION <i>(City and State)</i> City of Tempe City Hall HVAC Improvements Tempe, AZ</p>	<p>b. YEAR COMPLETED</p> <table border="1"> <tr> <td data-bbox="982 451 1252 529">PROFESSIONAL SERVICES</td> <td data-bbox="1252 451 1554 529">CONSTRUCTION <i>(If applicable)</i></td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>			

23. PROJECT OWNER'S INFORMATION

<p>c. PROJECT OWNER City of Tempe</p>	<p>d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$600,000</p>	<p>e. TOTAL COST OF PROJECT</p>
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

LSW provided mechanical, plumbing and electrical design and construction administration for the replacement of multi and single zone air handling units and restroom exhaust fans. Included is review and revision of load calculations, air distribution for air supply and zone temperature control, existing outside air ventilation rates, ductwork, chilled water piping, heating water piping, electrical power and HVAC controls such that related building code requirements are met. Included in this project are several areas of the Garden Level; restrooms and IT rooms (includes the addition of split-system DX cooling systems) of the lower level of the City Hall and throughout the City Hall complex.

Construction is estimated to complete April 2016



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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> HonorHealth Deer Valley Medical Center Central Plant Upgrade Phoenix, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION <i>(If applicable)</i> 2015

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER HonorHealth Deer Valley Medical Center	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

LSW provided mechanical, plumbing and electrical design and construction administration for the central plant upgrades. The mechanical scope of work is expected to include design for replacement of three new chillers, replace existing steam, heating hot water and domestic water of the facility, plumbing review the general condition of the domestic water, domestic water heating, medical air, and medical vacuum system equipment and piping layout, and provide a written evaluation with recommendations, and electrical will be design for general power systems to include distribution changes, mechanical and plumbing equipment connections, and misc. receptacles for the central plant upgrades.



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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	
Boulder Creek Elem. School Fire Alarm Replacement	PROFESSIONAL SERVICES 2015	CONSTRUCTION <i>(If applicable)</i> 2015

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Paradise Valley School District	\$387,672	\$387,672

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

LSW provided fire alarm design and construction administration for the fire alarm and security system replacement for a 77,881 SF elementary school which included new conduit systems, new wiring, new area smoke detection, HVAC shut down, monitoring of existing fire sprinkler systems, and new audio/visual devices.



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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> Arizona Department of Administration Executive Tower SES Replacement Phoenix, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES Dec. 2014	CONSTRUCTION <i>(If applicable)</i> Dec. 2014

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Arizona Department of Administration	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$1,053,145	e. TOTAL COST OF PROJECT \$1,053,145
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

LSW provided electrical and mechanical design and construction administration services for the upgrades to the electrical distribution system to achieve fully redundant power paths to the critical IT equipment. One existing 625kW UPS was replaced with two 675kW UPS's. A second UPS source transfer switch was provided, requisite generator paralleling switchgear upgrades were performed, and a UPS input switchboard main-tie-main scheme was introduced. New A/B UPS output distribution was provided including the addition of new PDU's and the resupply of existing PDU's. A fully coordinated design with a detailed sequence of construction was provided to facilitate the implementation of these upgrades without outages to the dual corded IT equipment.



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6. ADDITIONAL INFORMATION

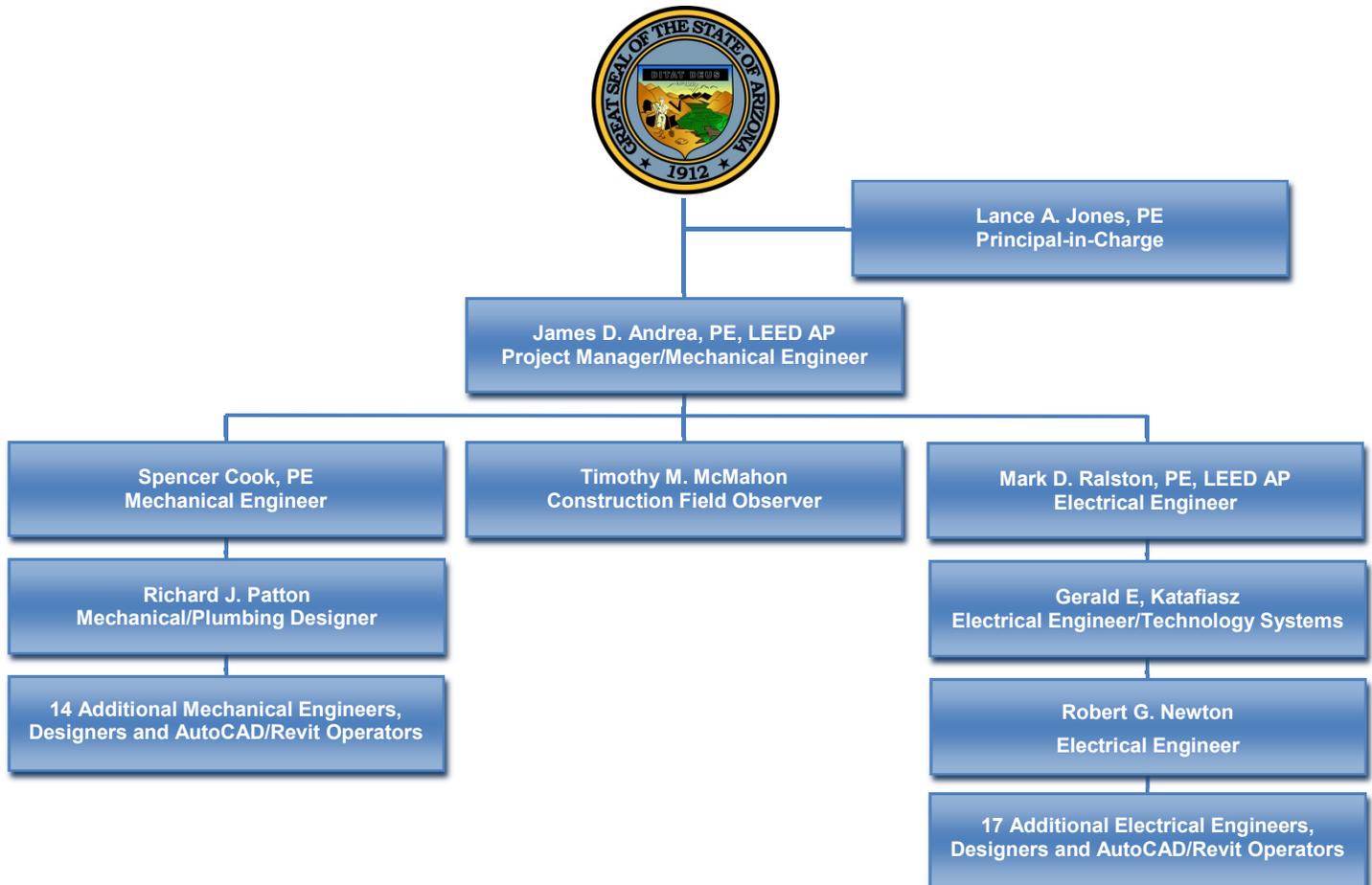
a. PROVIDE ANY ADDITIONAL INFORMATION YOU FEEL MAY BE NECESSARY TO DESCRIBE YOUR FIRMS QUALIFICATIONS. (ATTACH ADDITIONAL SHEETS AS NEEDED.)

LSW Engineers Arizona, Inc. (“LSW”) is a highly qualified, full service mechanical and electrical engineering firm. We have a 68-year history of providing reliable and energy efficient design solutions for Arizona’s built environment. Our staff of 15 professional mechanical and electrical engineers are supported by a staff of 34 designers, AutoCAD/Revit operators and administrative personnel. Included within our staff are Registered Communication Distribution Designers (RCDD) to support data, communications and special systems design; seven LEED Accredited Professionals to support our Green Building Design, a Certified Energy Auditor, and three full-time field observers to support our construction administration services. This depth of experience allows us to provide engineering and consultation for a wide range of project types. In addition, all of LSW’s technical staff is proficient in the use of the latest design tools, utilizing state-of-the-art hardware and software to produce complete and comprehensive 2-D or 3-D documents as project demands dictate, transforming your needs into buildable projects that meet both construction and operating budgets.

The services LSW can provide for the ADOA include the following:

- MPE Systems Engineering
- Building Systems Assessments
- Life Cycle Analysis
- Technology Design
- Code Studies
- Building Energy Analysis/Audits
- Fire Sprinkler and Alarm Design
- Construction Administration
- Commissioning
- LEED Commissioning

The LSW team members that we propose for your projects have more than 100 years of combined experience in the design of mechanical, plumbing, and electrical systems, building a reputation of superior service and providing creative solutions that meet owner’s requirements. Below is the organizational structure of our team.





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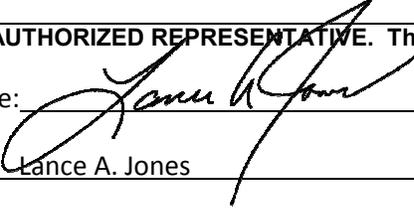
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7. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

a. Percentage of Total Work Attributable to State, Federal and Municipal Government Work:	32%
b. Percentage of Total Work Attributable to Non-Government Work:	68%

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

Signature:  Date: 12/21/2015

Name: Lance A. Jones Title: President