



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: GLHN & Engineers, 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.

GLHN Architects & Engineers, Inc.

Company Name

2939 E. Broadway Blvd.

Address

Tucson

AZ

85716

City

State

Zip

bhagedon@glhn.com

Contact Email Address

Signature of Person Authorized to Sign Offer

Brian G. Hagedon, AIA

Printed Name

Director of Architecture

Title

Phone: (520) 881-4546

Fax: (520) 795-1822

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:
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DEFINITIONS

Architect Services, Engineer Services, Land Surveying Services, Assayer Services, Geologist Services and Landscape Architect Services: Those professional services within the scope of the practice of those services as provided in ARS § 32-101.

Branch Office: A geographically distinct place of business or subsidiary office of a firm that has a key role on the team.

Discipline: Primary technical capabilities of key personnel, as evidenced by academic degree, professional registration, certification, and/or extensive experience.

Firm: Defined in ARS § 32-101(B.19.).

Key Personnel: Individuals who will have major contract responsibilities and/or provide unusual or unique expertise.

SPECIFIC INSTRUCTIONS:

1. Complete this form for each branch office seeking work under this RFQ.
 - a. – e. **Firm (or Branch Office) Name and Address.** Self-explanatory.
 - f. **Year Established.** Enter the year the firm (or branch office, if appropriate) was established under the current name.
 - g. **Ownership.**
 - (g1). *Type.* Enter the type of ownership or legal structure of the firm (sole proprietor, partnership, corporation, joint venture, etc.).
 - (g2). *Small Business Status.* A firm is a small business if the firm has less than 100 employees **or** has gross revenues of \$4 million or less.
 - h.-j. **Point of Contact.** Provide this information for a representative of the firm that the Customer can contact for additional information. The representative must be empowered to speak on contractual and policy matters.
 - k. **Name of Firm.** Enter the name of the firm.
2. **Employees by Discipline.**
 - a. Select disciplines from the List of Disciplines (Function Code) listed on Page 3 of 4 Instructions. For employees that do not qualify for any of the disciplines, select "Other". *Note: The intended searchable database indicated in the RFQ will be populated from the Qualifications Form I Excel attachment only.*
 - b. Each person can be counted only twice; once for his/her primary function and once for his/her secondary function. Primary and secondary functions should be indicated by including a "P" or an "S" in column b after the Description Title is given.
 - c-d. If the form is completed for a firm (including all branch offices), enter the number of employees by disciplines in column c. If the form is completed for a branch office, enter the number of employees by discipline in column d and for the firm in column c.
3. **Profile of Firm's Experience and Annual Average Revenue for Last Year.**
 - a. Enter the approximate number of projects the firm (or branch) has done attributable by Profile Code listed on Page 3 of 4 Instructions over the last year.



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- b. Enter the appropriate Profile Codes from Instructions Pages 3 of 4 that represent the type of work the firm (or branch) has done over the last year.
 - c. Using the Revenue Index Number on Page 3 of 6 Form, indicate the approximate revenue the firm has earned over the last year per Profile Code entered into the table.
4. **Resumes of Key Personnel Proposed for This Contract.** Complete this section for each key person who will participate in this contract.
- a. Self-explanatory.
 - b. Self-explanatory
 - c. Total years of relevant experience (block c1), and years of relevant experience with current firm, but not necessarily the same branch/office (block c2).
 - d. Name, City and State of the firm where the person currently works, which must correspond with one of the firms (or branch office or a firm, if appropriate) listed in Section 1.
 - e. Provide information on the highest relevant academic degree(s) received. Indicate the area(s) of specialization for each degree.
 - f. Provide information on current relevant professional registration(s) and in which State(s) they are current.
 - g. Provide information on any other professional qualifications relating to this contract, such as education, professional registration, publications, organizational memberships, certifications, training, awards, and foreign language capabilities.
 - h. Provide information on no more than five (5) projects in the last year which the person had a significant role that demonstrates the person's capability relevant to her/his proposed role in this contract. These projects do not necessarily have to be any of the projects presented in Section 5 for the project team if the person was not involved in any of those those projects or the person worked on other projects that were more relevant than the team projects in Section 5. Use the check box provided to indicate if the project was performed with any office of the current firm. If any of the professional services or construction projects are not complete, leave Year Completed blank and indicate the status in Brief Description and Specific Role.
5. **Example Projects Which Best Illustrate Firms Qualification for this contract.** Select project where multiple team members worked together, if possible, that demonstrate the team's capability to perform work similar to that required for this contract. Complete one Section 5 for each project. List no more than five (5) projects.
- a. Title and Locations of project or contract. For an indefinite delivery contract, the location is the geographic scope of the contract.
 - b. Enter the year completed of the professional services (such as planning, engineering study, or design), and/or the year completed if construction. If any of the professional services or the construction projects are not complete, leave Year Completed blank and indicate the status in Brief Description of Project and Relevance to This Contract (block f).
 - c. Project Owner or user, such as a government agency or installation, an institution, a corporation or private individual.
 - d. Provide the original budget or not to exceed dollar amount for the project.
 - e. Provide the Total Cost of the Project. If any of the professional services or construction projects is not complete, indicate the percentage complete and whether this project will be on budget, over or under budget.
 - f. Brief Description: Indicate scope, size, and length of project, principle elements and special features of the project. Discuss the relevance of the example project to this contract.
6. **Additional Information.** Use this section to provide additional information you feel may be necessary to describe your firm's qualifications for this contract.
7. **Annual Average Professional Services Revenues of Firm for Last 3 Years.** Complete this block for the firm or branch office for which this form is completed. In column a, enter an approximate percentage of total work attributable to State, Federal or Municipal Work. In column b, enter an approximate percentage of total work attributable to Non-Government work. Percentages should take into consideration work completed over the last 3 years.



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8. **Authorized Representative.** An authorized representative of the firm or branch office must sign and date the completed form. Signing attests that the information provided is current and factual. Provide the name and title of the authorized representative who signed the form.

List of Disciplines (Function Codes) for Question 2

- | | | |
|---------------------------|--|--------------------------|
| Aeronautical Engineer | Environmental Engineer | Mining Engineer |
| Agricultural Engineer | Environmental Scientist | Nuclear Engineer |
| Archeologist | Fire Protection Engineer | Petroleum Engineer |
| Architect | Geodetic Surveyor | Photogrammetrist |
| Architectural Engineering | Geographic Information System Specialist | Project Manager |
| Biologist | Geological Engineer | Sanitary Engineer |
| CADD Technician | Geologist | Soils Engineer |
| Chemical Engineer | Hydrographic Surveyor | Structural Engineer |
| Civil Engineer | Hydraulic Engineer | Technician/Analyst |
| Construction Manager | Hydrologist | Transportation Engineer |
| Construction Inspector | Industrial Engineer | Water Resources Engineer |
| Control Systems Engineer | Landscape Architect | |
| Cost Engineer/Estimator | Mechanical Engineer | |
| Ecologist | Metallurgical Engineer | |
| Electrical Engineer | | |

List of Experience Categories (Profile Codes for Question 3)

- | | |
|---|---|
| Acoustics, Noise Abatement | Construction Materials Testing |
| Aerial Photography; Airborne Data and Imagery Collection and Analysis | Dams (<i>Concrete; Arch</i>) |
| Activity Centers | Dams (<i>Earth; Rock</i>); Dikes; Levees |
| Air Pollution Control | Desalinization (<i>Process and Facilities</i>) |
| Airports; Navajds; Airport Lighting; Aircraft Fueling | Design-Build - Preparation of Requests for Proposals |
| Airports; Terminals and Hangars; Freight Handling | Digital Elevation and Terrain Model Development |
| Agricultural Development; Grain Storage; Farm Mechanization | Digital Orthophotography |
| Animal Facilities | Dining Halls; Clubs; Restaurants |
| Anti-Terrorism/Force Protection | Dredging Studies and Design |
| Area Master Planning | Design & Planning Structured Parking Facilities |
| Auditoriums and Theaters | Detention Security Systems |
| Automation; Controls; Instrumentation | Disability / Special Needs |
| Barracks; Dormitories | Ecological and Archeological Investigations |
| Bridge Design: Bridges | Educational Facilities; Classrooms |
| Cartography | Electrical Studies and Design |
| Cemeteries (<i>Planning and Relocation</i>) | Electronics |
| Chemical Processing and Storage | Elevators; Escalators; People-Movers |
| Child Care/Development Facilities | Energy / Water Auditing Savings |
| Codes; Standards; Ordinances | Energy Conservation; New Energy Sources |
| Cold Storage; Refrigeration and Fast Freeze | Environmental Impact Studies, Assessments or Statements |
| Commercial Building (<i>Low Rise</i>); Shopping Centers | Fallout Shelters; Blast-Resistant Design |
| Community Facilities | Fire Protection |
| Communications Systems; TV; Microwave | Fisheries; Fish Ladders |
| Computer Facilities | Forensic Engineering |
| Conservation and Resource Management | Garages; Vehicles Maintenance Facilities; Parking |
| Construction Management | Gas Systems (<i>Propane; Natural, Etc.</i>) |
| Construction Surveying | Geodetic Surveying: Ground and Airborne |
| Corrosion Control; Cathodic Protection Electrolysis | Heating; Ventilating; Air Conditioning |
| Cost Estimating; Cost Engineering and Analysis; Parametric Costing; Forecasting | Highways; Streets; Airfield Paving; Parking Lots |
| Cryogenic Facilities | Historical Preservation |
| | Hospital and Medical Facilities |
| | Hotels; Motels |
| | <i>Housing (Residential, Multi-Family;</i> |



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Apartments; Condominiums)
Hotels; Motels
Hydraulics and Pneumatics
Hydrographic Surveying
Industrial Buildings; Manufacturing Plants
Industrial Processes; Quality Control
Industrial Waste Treatment
Intelligent Transportation Systems
Infrastructure
Irrigation; Drainage
Judicial and Courtroom Facilities
Laboratories; Medical Research Facilities
Land Surveying
Landscape Architecture
Libraries; Museums; Galleries
Lighting (*Interior; Display; Theater, Etc.*)
Lighting (*Exteriors; Streets; Memorials; Athletic Fields, Etc.*)
Labs - General
Labs – Research – Dry
Labs – Research – Wet
LEED Accredited A/E
LEED Independent 3rd Party Building Commissioning
Mapping Location/Addressing Systems
Materials Handling Systems; Conveyors; Sorters
Metallurgy
Materials Testing
Measurement / Verification / Conservation Water Consumption Savings
Mining and Mineralogy
Medical Related
Modular Systems Design; Fabricated Structures or Components
Mold Investigation
Museums
Nuclear Facilities; Nuclear Shielding
Office Buildings; Industrial Parks
Outdoor Recreation
Petroleum and Fuel (*Storage and Distribution*)
Photogrammetry
Pipelines (*Cross-Country - Liquid and Gas*)
Phase I Environmental
Prisons & Correctional Facilities
Plumbing and Piping Design
Prisons and Correctional Facilities
Product, Machine Equipment Design Pneumatic Structures, Air-Support Buildings Power Generation, Transmission, Distribution Public Safety Facilities
Radar; Sonar; Radio and Radar Telescopes
Radio Frequency Systems and Shielding's
Railroad; Rapid Transit
Recreation Facilities (*Parks, Marinas, Etc.*)
Refrigeration Plants/Systems
Rehabilitation (*Buildings; Structures; Facilities*)
Research Facilities
Resources Recovery; Recycling
Roof Infrared Imaging to Identify Water Leaks

Roofing
Safety Engineering; Accident Studies; OSHA Studies
Security Systems; Intruder and Smoke Detection
Seismic Designs and Studies
Sewage Collection, Treatment and Disposal
Soils and Geologic Studies; Foundations
Solar Energy Utilization
Solid Wastes; Incineration; Landfill
Special Environments; Clean Rooms, Etc.
Structural Design; Special Structures
Surveying; Platting; Mapping; Flood Plain Studies
Sustainable Design
Swimming Pools
Storm Water Handling and Facilities
Specifications Writing
Toxicology
Testing and Inspection Services
Traffic and Transportation Engineering
Topographic Surveying and Mapping
Towers (*Self-Supporting and Guyed Systems*)
Tunnels and Subways
Traffic Studies
Transportation
Urban renewals; Community Development
Utilities (*Gas and Steam*)
Value Analysis; Life-Cycle Costing
Warehouse and Depots
Water Resources; Hydrology; Ground Water
Water Supply; Treatment and Distribution
Wind Tunnels; Research/Testing Facilities Design
Waste Water Treatment Facility
Water Well Rehabilitation; Water Well Work
Zoning; Land Use Studies



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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:	GLHN Architects & Engineers, Inc.
b. FIRM (OR BRANCH OFFICE) STREET:	2939 E. Broadway Blvd.
c. FIRM (OR BRANCH OFFICE) CITY:	Tucson
d. FIRM (OR BRANCH OFFICE) STATE:	Arizona
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85716
f. YEAR ESTABLISHED:	1963
(g1). OWNERSHIP - TYPE:	ESOP – Employee Stock Ownership Plan
(g2). OWNERSHIP - SMALL BUSINESS STATUS:	Small – less than 100 employees
h. POINT OF CONTACT NAME AND TITLE:	Brian G. Hagedon, AIA, NCARB
i. POINT OF CONTACT TELEPHONE NUMBER:	(520) 881-4546
j. POINT OF CONTACT E-MAIL ADDRESS:	bhagedon@glhn.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 <i>(see below)</i>
1	Cemeteries	2
2	Commercial Building	2
2	Commercial Facilities	2
5	Communications Systems; TV; Microwave	3
8	Cost Estimating, Cost Engineering	2
5	Educational Facilities	5
10	Electrical	4
10	Heating; Ventilation; Air	5
1	Highways, Streets, Parking	1
4	Hospital and Medical Facilities	4
10	Infrastructure	5
2	Laboratories; Medical Research Facilities	4
2	Libraries; Museums; Galleries	4
3	Lighting (Exteriors; Streets; Memorials; Athletic Fields, Etc.)	3
10	Plumbing & Piping Design	4
2	Recreation Facilities	3
2	Rehabilitation	2
6	Security Systems; Intruder and Smoke Detection	4
4	Sustainable Design	5
2	Utilities (Gas and Steam)	4

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

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



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

a. NAME		b. ROLE IN THIS CONTRACT		c. YEARS EXPERIENCE	
Brian G. Hagedon, AIA, NCARB		Director of Architecture		1. TOTAL 35	2. WITH CURRENT FIRM 17
d. LOCATION (City and State) Tucson, Arizona					
e. EDUCATION (DEGREE AND SPECIALIZATION)			f. PROFESSIONAL TRAINING - REGISTRATIONS		
Bachelor of Architecture			Arizona #26552		
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)					

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) Verde Valley Campus Improvements Yavapai college, Clarkdale, AZ	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Renovation of six buildings, including classroom facilities, IT/computer center, administration, labs, and library; outdoor pavilion, new campus entryway, campus-wide underground utility improvements, simultaneous design and construction packages totaling over 50,000 SF, \$8.2 million. Project Civil Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (City and State) Tucson Streetcar Vehicle Maintenance and Storage Facility City of Tucson, Tucson, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$18 million, 20,000 SF, Construction Manager at Risk, pending LEED Silver. The facility includes administration and control space (to visually control access to the storage yard), a maintenance area, and mezzanine level. Project Manager/Project Architect.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (City and State) Sun Tran Bus Storage, Maintenance, and Fueling Facility City of Tucson, Tucson, AZ	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE 25 Acres, 250-bus fleet, 70,000 SF of building area, Phase II is certified LEED Gold, Phase III is certified LEED Silver. Includes bus maintenance bays, bus wash facility, fueling, fare retrieval, operations, and administration. Project Architect for Phases II and III.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (City and State) Fitness and Sports Sciences (FSS) Renovation Pima Community College West Campus, Tucson, AZ	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$222,000, 23,300 SF, GLHN provided architectural and mechanical upgrades to an existing athletic facility. Architect.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION (City and State) New Dental Building Carl T. Hayden VA Medical Center, Phoenix, AZ	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$6.3 million, 16,000 SF ground up building designed as a full service dental facility. Includes 32 operatories, complete lab with porcelain functions and oral surgery facilities. Project Principal.	<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 Robert G. Lara, AIA	b. ROLE IN THIS CONTRACT Architecture Dept. Manager	c. YEARS EXPERIENCE	
		1. TOTAL 37	2. WITH CURRENT FIRM 3
d. LOCATION (City and State) Tucson, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Architecture		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona #14355	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Southern Arizona Energy Design Award; Arizona's Governor Design Award for energy efficiency; Governor Design Award for public accessibility; State of Arizona Best Recreational Facility Design Award.			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) Multi-Use / Public Safety Facility Needs Assessment Town of Marana, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Assessment of needs for the Marana Police Department. Analysis of existing conditions, programming and planning for future needs, cost estimating to aid in development of budgets for capital expenditure. Project Manager.	Professional Services 2013	Construction (if applicable) 2013
		<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (City and State) State Museum Basket Collection Renovation University of Arizona, Tucson, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$753,000, 10,020 SF Creation of a thermatically controlled environment for presentation of Native American artifacts. Project Architect.	Professional Services 2014	Construction (if applicable) 2014
		<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (City and State) New Dental Building Carl T. Hayden VA Medical Center, Phoenix, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$6.3 million, 16,000 SF ground up building designed as a full service dental facility. Includes 32 operatories, complete lab with porcelain functions and oral surgery facilities. Project Architect.	Professional Services	Construction (if applicable)
		<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (City and State) Outpatient Mental Health Clinic VA Medical Center, Albuquerque, NM	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$8 million, 17,000 SF, LEED Silver. Required creative space planning and management control of an aggressive schedule and limited budget. Site planning, design, construction documents, bidding and construction administration. Project Architect.	Professional Services 2012	Construction (if applicable) 2012
		<input type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION (City and State) Outpatient Mental Health Expansion VA Medical Center, Tucson, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$8 million, 15,000 SF. Aggressive schedule and limited budget. Scope of services included site planning, design, construction documents, bidding and construction administration. Project Architect.	Professional Services 2010	Construction (if applicable) 2010
		<input type="checkbox"/> Check if project performed with current firm	



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

a. NAME John C. McGann, PE	b. ROLE IN THIS CONTRACT Director of civil Engineering	c. YEARS EXPERIENCE	
		1. TOTAL 37	2. WITH CURRENT FIRM 29
d. LOCATION (City and State) Tucson, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science / Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona #22206	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) Verde Valley Campus Improvements Yavapai college, Clarkdale, AZ	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Renovation of six buildings, including classroom facilities, IT/computer center, administration, labs, and library; outdoor pavilion, new campus entryway, campus-wide underground utility improvements, simultaneous design and construction packages totaling over 50,000 SF, \$8.2 million. Project Civil Engineer.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION (City and State) Infrastructure Phase VII, North Campus Utilities University of Arizona, Tucson, AZ	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$32 million dollar planning, design, construction administration, and commissioning. Includes capacity expansions to production, distribution systems and rehabilitation of utility systems required to support loads of main and Arizona Health Sciences Center (AHSC) campuses. Co-Project Manager.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION (City and State) Tucson Streetcar Vehicle Maintenance and Storage Facility City of Tucson, Tucson, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$18 million, 20,000 SF, Construction Manager at Risk, pending LEED Silver. The facility includes administration and control space (to visually control access to the storage yard), a maintenance area, and mezzanine level. Project Civil Engineer.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION (City and State) Sun Tran Bus Storage, Maintenance, and Fueling Facility City of Tucson, Tucson, AZ	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE 25 Acres, 250-bus fleet, 70,000 SF of building area, Phase II is certified LEED Gold, Phase III is certified LEED Silver. Includes bus maintenance bays, bus wash facility, fueling, fare retrieval, operations, and administration. Project Civil Engineer for Master Planning and Phases I, II, and III.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION (City and State) Campus Chilled Water Improvements New Mexico State University, Las Cruces, NM	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$24 million campus-wide underground utility infrastructure improvements and construction of new satellite chilled water plant. Project Civil Engineer.	<input checked="" type="checkbox"/>	Check if project performed with current firm



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100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

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

a. NAME Theodore C. Moeller, PE, LEED AP	b. ROLE IN THIS CONTRACT Dir. of Electrical Engineering	c. YEARS EXPERIENCE	
		1. TOTAL 31	2. WITH CURRENT FIRM 17
d. LOCATION (City and State) Tucson, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science / Electrical Engineering Master of Fine Arts/ Creative Writing		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona #17029	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Illumination Engineering Society of North America			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) Residence Life Building Renewal University of Arizona, Tucson, AZ	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$50 million, multi-phase, renovation of 10 university residence halls spanning 10 years. Space renovations, ADA requirements, plumbing/piping, electrical/lighting upgrades. Tight construction schedule for each phase in 72-day summer break window. Project Electrical Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (City and State) Infrastructure Phase VII, North Campus Utilities University of Arizona, Tucson, AZ	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$32 million dollar planning, design, construction administration, and commissioning. Includes capacity expansions to production, distribution systems and rehabilitation of utility systems required to support loads of main and Arizona Health Sciences Center (AHSC) campuses. Electrical Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (City and State) Facility Condition Assessments / FCA Database Validation & Reconciliation, VA Medical Centers nationwide	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Facility Condition Assessments performed at over 100 VA Medical centers nationwide, multiple phases, performed over 10 years. Assessed all electrical systems from medium voltage utility service to branch circuits and lighting, as well as telecommunications and auxiliary systems. Lead Electrical Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (City and State) Old Main Relocation Study / Bear Down Gym Temporary Facilities University of Arizona, Tucson, AZ	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$2.6 million, 64,800 GSF, four months from Notice to Proceed to Occupancy. Project to renovate building and relocate staff with full functionality to service students. Electrical Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION (City and State) Exterior Master Lighting Plan Northern Arizona University, Flagstaff, AZ	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Surveyed existing campus lighting, identified deficiencies, and addressed location for improvements, along with recommendations for future campus lighting design. Goals were to provide nighttime visibility and function, compliance with the City of Flagstaff Outdoor Lighting Code, safety and security, etc. Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	



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

a. NAME Robert A. Alcalá, PE, CLEP	b. ROLE IN THIS CONTRACT Electrical Eng. Dept. Manager	c. YEARS EXPERIENCE	
		1. TOTAL 47	2. WITH CURRENT FIRM 3
d. LOCATION (City and State) Tucson, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science in Electrical Engineering Master of Science in Electrical Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona # 1485	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Certified Lighting Efficiency Professional (CLEP), IMSA work zone safety, IMSA Traffic Signal I.			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	(1) TITLE AND LOCATION (City and State) Air Handler Replacements and Upgrade Projects Arizona Health Sciences Center (AHSC), University of Arizona, Tucson, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Analysis and design of existing building and systems; recommendations for repair and replacement of existing systems; preparation of biddable documents; construction administration, and value engineering. Project Electrical Engineer.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION (City and State) Utilities Distribution Plan University of New Mexico Gallup Campus, Gallup, NM	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE GLHN provided subconsultant engineering services to a local Prime Consultant. Evaluation of existing 15 kV campus power system for growth over the next 10 years. Project Electrical Engineer.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION (City and State) Utilities Master Plan Southwester Indian Polytechnic Institute, Albuquerque, NM	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE GLHN provided subconsultant engineering services to a local Prime Consultant. Campus-wide evaluation of existing 15 kV power distribution system to accommodate facility growth. Project Electrical Engineer.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION (City and State) Heritage Park Master Plan Town of Marana, Marana, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE GLHN is providing civil, electrical, mechanical, and architectural services to a Landscape Architect Prime Consultant. Long range plan for electrical utility distribution for the park facilities. Project Electrical Engineer.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION (City and State) New Dental Building Carl T. Hayden VA Medical Center, Phoenix, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$6.3 million, 16,000 SF ground up building designed as a full service dental facility. Includes 32 operatories, complete lab with porcelain functions and oral surgery facilities. Project Electrical Engineer.	<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 Henry W. Johnstone, PE	b. ROLE IN THIS CONTRACT Dir. of Mechanical Engineering	c. YEARS EXPERIENCE	
		1. TOTAL 32	2. WITH CURRENT FIRM 29

d. LOCATION (City and State) Tucson, Arizona

e. EDUCATION (DEGREE AND SPECIALIZATION) Associates of Science / Solar Energy Technology Bachelor of Science / Mechanical Engineering Master of Science / Mechanical Engineering	f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona #26010
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g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)
 International District Energy Association (IDEA), engaged by IDEA to develop a District Energy Screening Tool for use in considering economic return of investment in district energy for urban-planned, mixed-use communities. The tool has been deployed at three opportunities in Pittsburgh, PA, and for projects in Denver, Westminster, and Boulder, CO.

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Residence Life Building Renewal University of Arizona, Tucson, AZ	2012	2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$50 million, multi-phase, renovation of 10 university residence halls spanning 10 years. Space renovations, ADA requirements, plumbing/piping, electrical/lighting upgrades. Tight construction schedule for each phase in 72-day summer break window. Project Manager.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	Old Main Relocation Study / Bear Down Gym Temporary Facilities University of Arizona, Tucson, AZ	2012	2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$2.6 million, 64,800 GSF, four months from Notice to Proceed to Occupancy. Project to renovate building and relocate staff with full functionality to service students. Project Principal/Project Manager.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	Campus Energy Reduction Program and Projects Arizona State University, Tempe, Arizona	2012	2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$28 million, Utility Infrastructure Study, assess energy use in 20 large campus laboratory buildings, related infrastructure upgrades and systems commissioning. Project Principal.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	Infrastructure Phase VII, North Campus Utilities University of Arizona, Tucson, AZ		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$32 million dollar planning, design, construction administration, and commissioning. Includes capacity expansions to production, distribution systems and rehabilitation of utility systems required to support loads of main and Arizona Health Sciences Center (AHSC) campuses. Co-Project Manager.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	Campus Chilled Water Improvements New Mexico State University, Las Cruces, NM	2013	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$24 million campus-wide underground utility infrastructure improvements and construction of new satellite chilled water plant. Project Principal/Project Manager.	<input checked="" type="checkbox"/>	Check if project performed with current firm



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

a. NAME R. Douglas Stingelin, PE, QCxP, LEED AP	b. ROLE IN THIS CONTRACT Mechanical Eng. Dept. Manager	c. YEARS EXPERIENCE	
		1. TOTAL 15	2. WITH CURRENT FIRM 11
d. LOCATION (City and State) Tucson, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Architectural Engineering – Environmental Option and Master of Architectural Engineering – Environmental Option		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona #83047	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Certified Commissioning Authority, Certified Level 2 Thermographer.			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) Verde Valley Campus Improvements Yavapai college, Clarkdale, AZ	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Renovation of six buildings, including classroom facilities, IT/computer center, administration, labs, and library; outdoor pavilion, new campus entryway, campus-wide underground utility improvements, simultaneous design and construction packages totaling over 50,000 SF, \$8.2 million. Project Civil Engineer.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION (City and State) Infrastructure Phase VII, North Campus Utilities University of Arizona, Tucson, AZ	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mech Engineer for \$32M planning, design, construction administration, and commissioning. Includes capacity expansions to production, distribution systems and rehabilitation of utility systems required to support loads of main and Arizona Health Sciences Center campuses.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION (City and State) Old Main Relocation Study / Bear Down Gym Temporary Facilities University of Arizona, Tucson, AZ	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$2.6 million, 64,800 GSF, four months from Notice to Proceed to Occupancy. Project to renovate building and relocate staff with full functionality to service students. Mechanical Engineer.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION (City and State) As-Needed LEED Commissioning Services Northern Arizona University, Flagstaff, AZ	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Five Projects: Applied Research and Development (59,000 SF, certified LEED Platinum), College of Business Administration (110,000 SF, certified LEED Gold), College of Engineering and Technology (95,600 SF, LEED certified), Chemistry Laboratory Building (100,000 SF), and High Country Conference Center (44,000 SF). Lead Commissioning Authority.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION (City and State) Campus Energy Reduction Program and Projects Arizona State University, Tempe, Arizona	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$28 million, Utility Infrastructure Study, assess energy use in 20 large campus laboratory buildings, related infrastructure upgrades and systems commissioning. Mechanical Engineer/Lead Commissioning Authority.	<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 Paul Norine	b. ROLE IN THIS CONTRACT Tech. Eng. Dept. Manager	c. YEARS EXPERIENCE	
		1. TOTAL 35	2. WITH CURRENT FIRM 6
d. LOCATION (City and State) Tucson, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) Undergraduate Studies - Architecture		f. PROFESSIONAL TRAINING - REGISTRATIONS	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Technology Project Director for the Olympic Summer Games in Atlanta and the Winter Olympic Games in Salt Lake City, as well as for the Goodwill Games, seven World Cup venues, and two Super Bowls.			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) Verde Valley Campus Improvements Yavapai college, Clarkdale, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Renovation of six buildings, including classroom facilities, IT/computer center, administration, labs, and library; outdoor pavilion, new campus entryway, campus-wide underground utility improvements, simultaneous design and construction packages totaling over 50,000 SF, \$8.2 million. IT/Security Design Lead.	Professional Services 2012	Construction (if applicable) 2012
		<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (City and State) Old Main Relocation Study / Bear Down Gym Temporary Facilities University of Arizona, Tucson, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$2.6 million, 64,800 GSF, four months from Notice to Proceed to Occupancy. Project to renovate building and relocate staff with full functionality to service students. IT/Security Design Lead.	Professional Services 2012	Construction (if applicable) 2012
		<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (City and State) UIITS Data Center and Network Operations Center (NOC) University of Arizona, Tucson, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE 2,000 SF, \$2.1 million. GLHN provides architecture, power, lighting, mechanical, and fire protection design services. IT/Security Design Lead.	Professional Services 2012	Construction (if applicable) 2012
		<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (City and State) Information Transport Systems (ITS) Upgrades Amphitheater Unified School District, Tucson, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE 18 district facilities. All spaces involve incorporation of a new HVAC unit, the design of new equipment and the relocation of any existing electrical devices. Project Manager	Professional Services	Construction (if applicable)
		<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION (City and State) Infrastructure Phase VII, North Campus Utilities University of Arizona, Tucson, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$32 million dollar planning, design, construction administration, and commissioning. Includes capacity expansions to production, distribution systems and rehabilitation of utility systems required to support loads of main and Arizona Health Sciences Center (AHSC) campuses. IT/Security Design Lead.	Professional Services	Construction (if applicable)
		<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 Victoria Childs, RCDD	b. ROLE IN THIS CONTRACT Sr. Communications and Life Safety Systems Design Lead	c. YEARS EXPERIENCE	
		1. TOTAL 23	2. WITH CURRENT FIRM 6
d. LOCATION (City and State) Tucson, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) Pima Community College, Tucson, AZ		f. PROFESSIONAL TRAINING - REGISTRATIONS Building Industry Consulting Service International (BICSI) since 1999	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) Information Transport Systems (ITS) Upgrades Amphitheater Unified School District, Tucson, AZ	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE 18 district facilities. All spaces involve incorporation of a new HVAC unit, the design of new equipment and the relocation of any existing electrical devices. IT/Security Design Lead.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION (City and State) Design Guides, Design Manuals, & Master Construction Specifications, IDIQ 2005-2010, Department of Veterans Affairs Central Office, Washington, D.C.	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Prepared a conceptual summary/outline for inclusion of communications in the Electrical Design Manual and Electrical Master Construction Specifications.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION (City and State) Southeast Ambulatory Care Center, Gila River Indian Community Gila River Health Care Corporation, Sacaton, AZ	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE New 140,000 SF Care Center -- design of all Ultra Low Voltage systems, including fire alarm, security, public address, video surveillance, monitoring, cable television, voice/data, audio/visual, and wireless.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION (City and State) National Wildlife Refuge Complex, U.S. Game and Fish San Diego, CA	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$5.7 million, 17,000 SF -- design of voice/data, communications outlets, security devices, wireless access, security risks, and digital signage. Admin Headquarters and Visitor Contact Station, certified LEED Gold and LEED Silver.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION (City and State) Building 17 Science Laboratory Renovation/Correct Code Deficiencies, Northern Arizona University, Flagstaff, AZ	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable) 2011
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE 100,000 SF, \$3.8 million. Life safety, exiting, pressurization, environmental control. IT/Security Design Lead.	<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	
RESIDENCE LIFE BUILDING RENEWAL University of Arizona, Tucson, AZ	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i> 2012

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
University of Arizona	\$50 million	\$50 million

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

This \$50+ million, multi-phase project, renovated spaces and systems in ten residence halls. Many of the involved residence halls are among the university's most historic structures and required special consideration regarding staging areas during construction and the impact of the project on well-established sites. Utilizing a fast-track, Construction Manager at Risk delivery method, Phase I of the project -- involving a 9-story dorm and two 2-story dorms -- completed \$7 million of construction in 70 days during Summer Break 2004. Work advanced 24 hours a day, 7 days a week, demolishing, replacing, and finishing three facilities simultaneously. To ensure that the 70-day schedule for each phase was met and that RFIs were addressed quickly, GLHN assigned a full-time, on-site construction manager to the project. Bathroom facilities were modernized to offer residents more privacy, gang sleeping areas were converted to private or double rooms, and unused or outdated common areas like typing rooms were converted to increase bed count or to accommodate other uses. Old building systems were replaced to extend the buildings' useful life and interior architectural modifications were made in accordance with updated ADA requirements.

Projects were completed in four phases over the course of 10 years, demonstrating the firm's vigilance through difficult economic times and adaptability to changing university staff, availability of construction work force, and construction material costs. GLHN kept the same A/E staff on the project throughout all phases.



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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> INFRASTRUCTURE PHASE VII, NORTH CAMPUS UTILITIES University of Arizona, Tucson, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER University of Arizona	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$32 million	e. TOTAL COST OF PROJECT \$32 million
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

This project demonstrates GLHN's capability in utility infrastructure design for capital improvements and facility growth, as well as its breadth of in-house engineering services. The University of Arizona selected GLHN Architects & Engineers (GLHN) as design professionals for the planning, design, construction administration and commissioning for the North Campus Infrastructure project. The scope of the project includes capacity expansions to the University's production and distribution systems and rehabilitation of utility systems required to support the loads on the Main and Arizona Health Sciences Center campuses.

The initial phase of the project included an assessment of the capacity and quality of the existing utility systems and developing alternatives for each system that were consistent with the short term needs and compatible with the long range growth plans indicated in the Campus Comprehensive Plan. The alternatives were prioritized to refine the scope of the project that was within budget and provided the University with systems that were efficient to operate, sustainable, and provided the redundancy required to support critical campus demands.

The developed project included expansions and upgrades to the water, sanitary sewer, chilled water steam, tunnel, communication/data and electrical systems. Specific aspects of the project include:

- Replacement of a 450 gpm groundwater well, well head improvements, development of a new water booster pump station and a 450,000 gallon water storage tank. To support the improved water production system, water system improvements also include new water distribution mains and control systems.
- The expansion of the chilled water generation capacity included the addition of 5,000 tons of water cooled chillers and cooling towers at AHSC Central Plant, 2,500 tons of chiller capacity at the Central Heating and Refrigeration Plant (CHRP), primary pumps, header improvements, distribution piping and control systems. The chillers and equipment were selected based on operating efficiencies and life cycle costs analysis.
- The steam generating capacity improvements at the CHRP will be increased by 30,000 lbs/hr utilizing modular water tube steam boilers. The selected boilers also provide increased flexibility in plant operations and increase efficiencies of the steam generation system. Plant improvements also include new boiler auxiliaries, header modifications, and control systems.
- The tunnel system is a principle corridor for the steam distribution system; portions of the system were constructed over 80 years ago and required structural rehabilitation. Due to development over the tunnels, in-situ rehabilitation methods were required. The selected method for rehabilitation consisted of carbon fabric reinforcement of approximately 1,200 lf of tunnel.
- Steam and condensate distribution improvements included approximately 2,000 LF of 14 and 12-inch high pressure steam mains
- Other aspects of the project included cured-in-place-pipe (CIPP) lining of sanitary sewers, primary power and fiber optic distribution.

Construction Cost: \$32 million, numerous design and construction packages.



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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	
Campus Energy Reduction Program and Projects Arizona State University, Tempe, Arizona	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i> 2012

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Arizona State University	\$28 million for all projects	\$28 million for all projects

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

This project involved assessment of energy use in 20 large campus laboratory buildings, related infrastructure upgrades, and systems commissioning. Two representative projects under this contract:

Physical Sciences E-Wing Recommissioning

Life Sciences E-Wing was designed in the early 1990s as an academic and research laboratory facility for the study of biology. Occupying a relatively small footprint (160 FT X 110 FT) in a dense part of the central campus, the 198,500 SF facility has a total of 10 floors. Two auditorium style classrooms are located at grade, on the plaza level.

The second floor houses classrooms and administrative office space. Floors 3-7 contain offices and lab support functions at the exterior north and south exposures. The Life Sciences project involved overall reduction in building air changes and re-commissioning of lab fume hoods and zone temperature controls. In addition to re-balancing required for air change reductions and individual lab pressurization, overall building pressurization was addressed.

Re-commissioning results:

- Large amount of zone controllers found not working and were replaced
- Fan motor amperage was lowered on average between 30 and 50 percent
- Fume hoods were balanced to lower cfm values and re-certified
- Overall building airflow was reduced by 30 percent
- Overall temperature is more uniform causing maintenance calls to be reduced

Physical Sciences F-Wing Infrastructure and Recommissioning

GLHN evaluated the ability of the existing air handling systems of the existing 175,000 SF lab and office facility to provide higher ventilation rates, examined the capacity of the existing normal electric power and standby electric power systems, and prepared a hydraulic model of the existing chilled water piping system to analyze its ability to accommodate additional loads. Following the study, GLHN was contracted to implement the recommended chilled water piping systems, fundamentally an energy conservation project, involving multiple phases of renovation within an occupied building. Installation of two-way control valves and variable frequency drives reduce building pumping energy and increase the efficiency of the central chilled water distribution system. GLHN participated in weekly construction meetings, resolved submittal issues, assisted in coordination of contractor phasing and outage schedules, and took an active role in start-up and commissioning.



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**

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	
VERDE VALLEY CAMPUS IMPROVEMENTS Yavapai college, Clarkdale, AZ	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i> 2012

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Yavapai College	\$8.2 million	\$8.2 million

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

This educational facility included renovation of five buildings. The project time frame was worked out closely with the contractor, KCS to provide for just-in-time documents and for optimizing the construction schedule. Only two buildings could commence demolition during the school year. KCS and GLHN developed a plan to stagger the project document delivery so that renovation work could start in March of 2012. After preliminary design, we provided updated drawings every two weeks for review and pricing confirmation beginning in January 2012 and ending in April 2012. The goal was not just to update the buildings but also to provide interactive space that promotes communication and collaboration between students, faculty, and staff.

A majority of the renovation work occurred over the summer of 2012. The fast-track work included five buildings containing classrooms and labs, library, computer labs, faculty offices, administration, assembly space, student center with recreation and food court, as well as campus security. All spaces had to be up and functional for fall classes 2012. Total project construction duration was 6 months with a majority of the work completed in three months during the summer and successfully opening for fall classes.

GLHN's work included:

- Building F: Renovation of classrooms into student center with café and small art gallery, 6,200 SF.
- Building G: Renovation of existing classrooms and computer lab spaces, 9,450 SF.
- Building H: Renovation of existing administration and student center to digital and visual art classrooms and pottery lab with outdoor kiln. Bathrooms added for ADA compliance.
- Building I: Renovation of existing administration building, 15,600 SF.
- Building M: Consolidation and renovation of new faculty offices, 11,000 SF; expansion of classrooms, 4,000 SF; and minor remodel of library and computer lab, 12,000 SF.



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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	
Old Main Relocation Study / Bear Down Gym Temporary Facilities University of Arizona, Tucson, AZ	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i> 2012

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
University of Arizona	\$2.6 million	\$2.6 million

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

The Bear Down project demonstrates GLHN's high-level responsiveness, capacity to realign staff commitments to accommodate fast-track schedules, utilize Building Information Modeling (BIM) to assess design options, and develop creative solutions under pressure.

GLHN was engaged by the University of Arizona in Spring 2012 to assist in the delivery of a project with an unusually quick schedule. The university needed to develop temporary facilities to house Old Main's approximately 90 full-time staff while the building was to be renovated. A primary challenge was the real time schedule; it was essential that the staff relocation and move be completed before student programs became fully functional again in Fall 2012.

GLHN received Notice to Proceed in early April and the project completed construction the first week of July. The GLHN team evaluated several alternatives for the temporary adaptation of the historic gymnasium. The firm's integrated, multi-discipline structure allowed for timely and thorough examination of the alternatives and the use of three-dimensional building modeling. Photorealistic renderings provided visual aids for use in decision making. The team worked closely with quantity surveyor-construction cost estimators to derive comparative construction cost estimates that would capture the intense time pressure and potential construction risk factors. Working closely with UA Planning, Design, and Construction, a set of quantitative and qualitative pros and cons were developed for each alternative.

The architectural group at GLHN developed a space program through evaluation of existing conditions, staff rosters, and discussion of the student access criteria. Technical issues involved modification of power, sewer, IT, and HVAC systems and options were evaluated by senior engineering staff with deep knowledge of the University's utility infrastructure. GLHN architects met the challenge of maintaining a balance between low cost and temporary facilities and providing a warm and functional environment that is welcoming to the public. Success depended on open communication, rapid response, and mutual trust among the University, contractor, and AE project team.



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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.)

GLHN ARCHITECTS & ENGINEERS, INC.

firm profile: capabilities, focus, and relationships

Established in 1963, GLHN Architects & Engineers, Inc. is an employee-owned firm headquartered in Tucson, Arizona with a second location in Phoenix, Arizona. The firm offers integrated, multi-discipline services in architecture and mechanical, electrical, civil, and technology engineering. GLHN's staff includes LEED Accredited Professionals in all disciplines (LEED AP), Green Globes Professionals (GGP), Registered Communications Distribution Designers (RCDD), Building Energy Simulation Analysts (BESA), Certified Energy Managers (CEM), Energy Reduction Analysts, Certified Commissioning Agents and Technicians (Cx and CxT, staff Certified in Plumbing Engineering (CIPE), and a Lighting Certified (LC) designer.

GLHN is guided by the principle that our success comes from helping others succeed. The firm's philosophy on success fosters dedication and long-term client relationships. GLHN has worked for the Department of Veterans Affairs continuously since 1975 and has completed projects at over 120 VA Medical Centers nationwide. GLHN has also worked for nearly two dozen higher educational institutions and has established itself a leader in the development of campus carbon reduction programs, promoting initiatives to economize building performance and implement the use of alternative energies. GLHN excels at utility master planning, design of central plants and underground utility distribution systems, complex multi-phased renovation projects, medical and laboratory facilities, vehicle maintenance facilities, security and communications systems, and enhanced systems commissioning.

GLHNgreen, an initiative established in 2008, supports and promotes the firm's environmentally-responsible office efforts and sustainable design practices. GLHNgreen focuses on five areas: sustainable/LEED design, professional practices (client-oriented efforts), office practices, reduction of the firm's carbon footprint, and staff education. In 2010, the GLHN office building was awarded LEED-EB Gold by the USGBC; it is the first building in Southern Arizona to be certified LEED for Existing Buildings.

GLHN embraces technological advancements in the A/E industry for the benefit of its clients and believes Building Information Modeling (BIM) is the future of the design and construction industry. The firm has transitioned from 2D CAD production to fully-integrated 3D design, using the Autodesk Autocad-based Revit and Civil3D platforms.

For contact information, an updated news blog, downloadable brochures, and project portfolio, visit glhn.com.

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:	80%
b.	Percentage of Total Work Attributable to Non-Government Work:	20%

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

Signature: 

Date: December 17, 2015

Name: Brian G. Hageon, AIA

Title: Director of Architecture