

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.
 - 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.
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 7

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	Project Manager
Biologist	Specialist	Sanitary Engineer
CADD Technician	Geological Engineer	Soils Engineer
Chemical Engineer	Geologist	Structural Engineer
Civil Engineer	Hydrographic Surveyor	Technician/Analyst
Construction Manager	Hydraulic Engineer	Transportation Engineer
Construction Inspector	Hydrologist	Water Resources Engineer
Control Systems Engineer	Industrial Engineer	
Cost Engineer/Estimator	Landscape Architect	
Ecologist	Mechanical Engineer	
Electrical Engineer	Metallurgical Engineer	

List of Experience Categories (Profile Codes for Question 8)

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

RFQ# ADSP014-00003465, Annual Request for Qualifications and Experience
REVISED - Attachment I – General Qualifications

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

**RFQ# ADSP014-00003465, Annual Request for Qualifications and Experience
REVISED - Attachment I – General Qualifications**

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

1. REVISED ADSP013-00003465: 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:	Employee owner-ESOP
(g2).	OWNERSHIP - SMALL BUSINESS STATUS:	Less than 100 employees
h.	POINT OF CONTACT NAME AND TITLE:	Richard Bergsma, Marketing Coordinator
i.	POINT OF CONTACT TELEPHONE NUMBER:	(520)881-4546
j.	POINT OF CONTACT E-MAIL ADDRESS:	rbergsma@glhn.com
k.	NAME OF FIRM (If block 1a is a branch office):	

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REVISED - Attachment I – General Qualifications**

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	Barrack & Dormitories	2
1	Cemeteries	2
0	Codes; Standards; Ordinances	-
2	Commercial Building	3
2	Community Facilities	2
6	Communications Systems; TV; Microwave	3
10	Cost Est; Cost Engineering	2
4	Educational Facilities	6
10	Electrical	5
1	Garages, Vehicle Maintenance	2
10	Heating; Ventilation; Air	6
1	Highways, Streets, Parking	2
2	Hospital & Medical Facilities	3
1	Judicial and Courtroom Facilities	4
2	Laboratories; Medical Research Facilities	5
5	Lighting (Exteriors; Streets; Memorials; Athletic Fields, Etc.)	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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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>)
10	Plumbing & Piping Design	4
2	Recreation Facilities	2
3	Rehabilitation	2
8	Security Systems; Intruder and Smoke Detection	4
0	Sewage Collection; Treatment	-
4	Sustainable Design (LEED)	5
3	Utilities (Gas, Steam, Plants)	5
2	Value Analysis; Life Cycle	2
0	Water Supply; Treatment	-

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	Director of Architecture	1. TOTAL 33	2. WITH CURRENT FIRM 16
c. FIRM NAME AND LOCATION (City and State)			
GLHN Architects & Engineers, Inc. Tucson, Arizona			
d. EDUCATION (DEGREE AND SPECIALIZATION)		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
Bachelor of Architecture		Arizona #26552 Alabama #7082 Colorado #402813 Florida #AR96131 Utah #8076961-0301	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
	CAMPUS WIDE RENOVATION PROJECT Yavapai College Verde Valley Campus, Clarkdale, Arizona	Professional Services: 2012	Construction: 2011/2012
1)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	\$8.4 million, 94,000 SF Renovated to 160,000 SF. GLHN has held an as-needed contract with Yavapai College for architectural and engineering services since 2008. Job have included numerous renovation projects, additions and new construction to meet the demands of projected size increases. Project Manager.		
	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
	PHASE VII NORTH CAMPUS UTILITIES University of Arizona, Tucson, Arizona	Professional Services	Construction (if applicable)
2)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	\$32 million. Planning, design for central plant renovations. Project currently in design. Architect.		
	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
	PIMA COMMUNITY COLLEGE WEST CAMPUS FITNESS AND SPORTS SCIENCES Pima Community College, Tucson, Arizona	Professional Services: 2011	Construction : 2012
3)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	\$222K, 23,300SF, GLHN provided architectural and mechanical upgrades to an existing athletic facility. Architect.		
	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
	TUCSON STREETCAR VEHICLE MAINTENANCE AND STORAGE FACILITY City of Tucson, Tucson, Arizona	Professional Services: 2012	Construction : 2013
4)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	GLHN is the A/E of record for the \$18 million, 20,414 SF maintenance and storage facility. The project uses the Construction Manager at Risk Delivery Method and is designed for LEED Silver certification, according to the City mandate. The facility includes administration and control space (to visually control access to the storage yard), a maintenance area, and mezzanine level. Architect.		
	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
	SUN TRAN BUS STORAGE MAINTENANCE AND FUELING FACILITY City of Tucson, Tucson, Arizona	Professional Services: 2012	Construction : 2012
5)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	GLHN has been fully engaged in the \$50 million City of Tucson Sun Tran Bus Storage, Maintenance, and Fueling Facility since 1997. GLHN is Architect and Engineer of Record. Begun with an intensive master planning and community involvement effort in 1997, Phase I completed construction in 2006, Phase II completed construction in 2010, and Phase III completed construction in 2012. At full building-out, the 25-acre site provides facilities to support a 250-bus fleet with more than 70,000 SD of building space. Phase II earned LEED Gold, Phase III was awarded LEED Silver Certification. Architect.		

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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section 4 for each key person.)

a. NAME Robert Lara, AIA	b. ROLE IN THIS CONTRACT Architecture Department Manager	c. YEARS EXPERIENCE 1. TOTAL: 35 2. WITH CURRENT FIRM: 1	
c. FIRM NAME AND LOCATION (City and State) GLHN Architects & Engineers, Inc. Tucson, Arizona			
d. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Architecture		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Arizona #14355	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

H. RELEVANT PROJECTS			
1) (1) TITLE AND LOCATION (City and State) POLICE FACILITY PROGRAMMING, Town of Marana, Arizona	(2) Year Completed		
	Professional Services: 2013	Construction: 2013	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Provided programming services for a new Police Facility. No Cost. Project Manager.			
2) (1) TITLE AND LOCATION (City and State) CARL T. HAYDEN MEDICAL CENTER NEW DENTAL BUILDING, VA Phoenix, Arizona	(2) Year Completed		
	Professional Services:	Construction :	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm This 16,000 SF ground up building is designed as a Full Service Dental Facility that replaces the existing facility. It includes 32 Operatories, complete Lab with Porcelain functions and Oral Surgery facilities. \$6.3 Million. Project in design phase. Project Architect			
3) (1) TITLE AND LOCATION (City and State) UA STATE MUSEUM BASKET COLLECTION RENOVATION, University of Arizona, Tucson, Arizona	(2) Year Completed		
	Professional Services: 2013	Construction : 2013	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm \$753,000, 10,020 SF Creation of a thermatically controlled environment for presentation of Native American artifacts. Project Architect.			
4) (1) TITLE AND LOCATION (City and State) NMVAHCS OUTPATIENT MENTAL HEALTH Albuquerque, New Mexico	(2) Year Completed		
	Professional Services: 2010	Construction: 2012	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm This \$ 8 million, 17,000 SF ground up building is designed as an Outpatient Mental Health Building. New LEED Silver construction project that required complete architectural and engineering services. Required creative space planning and management control of an aggressive schedule and limited budget. Site planning, design, construction documents, bidding and construction administration.			
5) (1) TITLE AND LOCATION (City and State) SAVAHCS OUTPATIENT MENTAL HEALTH EXPANSION Tucson, Arizona	(2) Year Completed		
	Professional Services: 2010	Construction: 2012	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm This \$ 8 million, 15,000 SF expansion is designed as an Outpatient Mental health Building. This job required a creative space planning and management control of an aggressive schedule and limited budget. Scope of services included site planning, design, construction documents, bidding and construction administration.			

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REVISED - Attachment I – General Qualifications**

4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section 4 for each key person.)

a. NAME John McGann, P.E.	b. ROLE IN THIS CONTRACT Director of Civil Engineering	c. YEARS EXPERIENCE	
		1. TOTAL 35	2. WITH CURRENT FIRM 27
c. FIRM NAME AND LOCATION (City and State) GLHN Architects & Engineers, Inc. Tucson, Arizona			
d. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science / Civil Engineering		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Arizona #22206 / P.E. / Civil	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) CAMPUS WIDE RENOVATION PROJECT Yavapai College Verde Valley Campus, Clarkdale, Arizona	(2) Year Completed	
		Professional Services: 2012	Construction: 2011/2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm \$8.4 million, 94,000 SF Renovated to 160,000 SF, comprehensive utility development plans for 6 campuses. Civil Engineer.		
2)	(1) TITLE AND LOCATION (City and State) PHASE VII NORTH CAMPUS UTILITIES, University of Arizona, Tucson, Arizona	(2) Year Completed	
		Professional Services:	Construction :
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm \$32 million dollar planning, design, construction administration and commissioning for the North Campus infrastructure project. Including capacity expansions to production, distribution systems and rehabilitation of utility systems required to support loads of main and AHSC campuses. Project in design. Co-Project Manager.		
3)	(1) TITLE AND LOCATION (City and State) CAMPUS WIDE CHILLED WATER IMPROVEMENTS, New Mexico State University, Las Cruces, New Mexico	(2) Year Completed	
		Professional Services: 2013	Construction : 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm \$24 million campus wide chilled water utility Improvement. Civil Engineer.		
4)	(1) TITLE AND LOCATION (City and State) TUCSON STREETCAR VEHICLE MAINTENANCE AND STORAGE FACILITY City of Tucson, Tucson, Arizona	(2) Year Completed	
		Professional Services: 2012	Construction: 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm GLHN is the architect and engineer of record for the \$18 million maintenance and storage facility. The project uses the Construction Manager at Risk Delivery Method and is designed for LEED Silver certification, according to the City mandate. The facility includes administration and control space (to visually control access to the storage yard), a maintenance area, and mezzanine level. Civil Engineer.		
5)	(1) TITLE AND LOCATION (City and State) SUN TRAN BUS STORAGE MAINTENANCE AND FUELING FACILITY City of Tucson, Tucson, Arizona	(2) Year Completed	
		Professional Services: 2012	Construction: 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm GLHN has been fully engaged in the \$50 million City of Tucson Sun Tran Bus Storage, Maintenance, and Fueling Facility since 1997. GLHN is Architect and Engineer of Record. Begun with an intensive master planning and community involvement effort in 1997, Phase I completed construction in 2006, Phase II completed construction in 2010, and Phase III completed construction in 2012. At full building-out, the 25-acre site provides facilities to support a 250-bus fleet with more than 70,000 SD of building space. Phase II earned LEED Gold, Phase III was awarded LEED Silver Certification. Civil Engineer.		

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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section 4 for each key person.)

a. NAME Theodore Moeller, P.E., LEED AP	b. ROLE IN THIS CONTRACT Director of Electrical Engineering	c. YEARS EXPERIENCE 1. TOTAL: 29 2. WITH CURRENT FIRM: 15	
c. FIRM NAME AND LOCATION (City and State) GLHN Architects & Engineers, Inc. Tucson, Arizona			
d. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science / Electrical Engineering Master of Fine Arts/ Creative Writing		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Arizona #17029 / P.E. Electrical	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Illumination Engineering Society of North America, Certified Energy Manager, LEED Accredited Professional			

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: 2012	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm \$50 + million, multi-phase, four-year renovation of 10 university residence halls. Electrical Engineer.			
2) (1) TITLE AND LOCATION (City and State) PHASE VII NORTH CAMPUS UTILITIES, University of Arizona, Tucson, AZ	(2) Year Completed		
	Professional Services:	Construction :	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm \$32 million dollar planning, design, construction administration and commissioning for the North Campus infrastructure project. Including capacity expansions to production, distribution systems and rehabilitation of utility systems required to support loads of main and AHSC campuses. Project in design. Electrical Engineer.			
3) (1) TITLE AND LOCATION (City and State) CORBETT CENTER STUDENT UNION RENOVATION, New Mexico State University, Las Cruces, NM	(2) Year Completed		
	Professional Services: 2012	Construction: 2012	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm \$3.6 million renovation of student union building. Project Electrical Engineer.			
4) (1) TITLE AND LOCATION (City and State) OLD MAIN STAFF RELOCATION STUDY & BEAR DOWN GYM TEMPORARY FACILITIES University of Arizona, Tucson, AZ	(2) Year Completed		
	Professional Services: 2012	Construction: 2012	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm \$2.6 million, 64,800 GSF, quickly paced project to renovate building and relocate staff with full functionality to service students. Electrical Engineer.			
5) (1) TITLE AND LOCATION (City and State) EXTERIOR MASTER LIGHTING PLAN, Northern Arizona University, Flagstaff, AZ	(2) Year Completed		
	Professional Services: 2012	Construction: 2012	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm The Exterior Master Lighting Plan examined the existing campus lighting, identified deficiencies, and addressed location for improvements, along with recommendations for future campus lighting design. The goals of the master plan were to provide nighttime visibility and function, compliance with the City of Flagstaff Outdoor Lighting Code, safety and security, ect. The plan assisted the University in being a good neighbor to the community. Project Manager.			

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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section 4 for each key person.)

a. NAME Roger Harwell, P.E.	b. ROLE IN THIS CONTRACT Principal in Electrical Engineering	c. YEARS EXPERIENCE	
		1. TOTAL 46	2. WITH CURRENT FIRM 32
c. FIRM NAME AND LOCATION (City and State) GLHN Architects & Engineers, Inc. Tucson, Arizona			
d. EDUCATION (DEGREE AND SPECIALIZATION) Bachelors of Science / Physics Masters of Science / Physics Masters of Business Administration		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Arizona #17029 / P.E. / Electrical	
h. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Illumination Engineering Society of North America, Southern Arizona Chapter; Certified Energy Auditor Technical Analyst.			

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: 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm \$50 + million, multi-phase, four-year renovation of 10 university residence halls. Electrical Engineer		
2)	(1) TITLE AND LOCATION (City and State) PHASE VII NORTH CAMPUS UTILITIES, University of Arizona, Tucson, AZ	(2) Year Completed	
		Professional Services:	Construction:
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm \$32 million dollar planning, design, construction administration and commissioning for the North Campus infrastructure project. Including capacity expansions to production, distribution systems and rehabilitation of utility systems required to support loads of main and AHSC campuses. Project in design. Electrical Engineer.		
3)	(1) TITLE AND LOCATION (City and State) CAMPUS ENERGY REDUCTION PROGRAM & PROJECTS Arizona State University, Tempe, AZ	(2) Year Completed	
		Professional Services: 2012	Construction: 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm \$28 million, Utility infrastructure Study, assess energy use in 20 large buildings, Infrastructure upgrades.. Electrical Engineer.		
4)	(1) TITLE AND LOCATION (City and State) UNIVERSITY OF ARIZONA PRIMARY POWER 5kV-15kV University of Arizona, Tucson, AZ	(2) Year Completed	
		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 Conversions, replacement of 4160V primary distribution system with newer 13.8V system in all campus quadrants, phased project over \$10 million. Still under construction. Electrical Engineer.		
5)	(1) TITLE AND LOCATION (City and State) ARIZONA HEALTH SCIENCES CENTER TRANSFORMER YARD EXPANSION University of Arizona, Tucson, AZ	(2) Year Completed	
		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 Arizona Health Sciences Center Transformer Yard Expansion and 46KV Substation, new 46kV to 13.8kV substation to serve all of north campus precinct, \$3M. Still under construction. Electrical Engineer		

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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section 4 for each key person.)

a. NAME Henry Johnstone, P.E.	b. ROLE IN THIS CONTRACT Director of Mechanical Engineering	c. YEARS EXPERIENCE	
		1. TOTAL 30	2. WITH CURRENT FIRM 27
c. FIRM NAME AND LOCATION (City and State) GLHN Architects & Engineers, Inc. Tucson, Arizona			
d. EDUCATION (DEGREE AND SPECIALIZATION) Associates of Science / Solar Energy Technology Bachelor of Science / Mechanical Engineering Master of Science / Mechanical Engineering		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Arizona #26010 / P.E. / Mechanical	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Presented papers at sessions of the International District Heating and Cooling Association			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State) RESIDENCE LIFE BUILDING RENEWAL, University of Arizona, Tucson, AZ	(2) Year Completed	
		Professional Services: 2012	Construction: 2012
1)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$50+ million, multi-phase, four-year renovation of 10 university residence halls. Project Principal.	<input checked="" type="checkbox"/> Check if project performed with current firm	
	(1) TITLE AND LOCATION (City and State) OLD MAIN STAFF RELOCATION STUDY & BEAR DOWN GYM TEMPORARY FACILITIES University of Arizona, Tucson, AZ	(2) Year Completed	
		Professional Services: 2012	Construction: 2012
2)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$2.6 million, 64,800 GSF, quickly paced proj. to renovate bldg. and relocate staff with full functionality. Project Principal.	<input checked="" type="checkbox"/> Check if project performed with current firm	
	(1) TITLE AND LOCATION (City and State) CAMPUS ENERGY REDUCTION PROGRAM & PROJECTS Arizona State University, Tempe, AZ	(2) Year Completed	
		Professional Services: 2012	Construction: 2012
3)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$28 million, Utility Infrastructure Study, assess energy use in 20 large buildings, Infrastructure upgrades. Project Principal.	<input checked="" type="checkbox"/> Check if project performed with current firm	
	(1) TITLE AND LOCATION (City and State) PHASE VII NORTH CAMPUS UTILITIES, University of Arizona, Tucson, AZ	(2) Year Completed	
		Professional Services	Construction:
4)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$32 million dollar planning, design, construction administration and commissioning for the North Campus infrastructure project. Including capacity expansions to production, distribution systems and rehabilitation of utility systems required to support loads of main and AHSC campuses. Project in design. Project Manager	<input checked="" type="checkbox"/> Check if project performed with current firm	
	(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: 2012	Construction: 2012
5)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope includes Life Safety, exiting, pressurization, environmental control in 100,000 SF, \$18 million. 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 Douglas R. Stingelin, P.E., QCxP, LEED AP	b. ROLE IN THIS CONTRACT Mechanical Engineering Department Manager	c. YEARS EXPERIENCE	
		1. TOTAL 13	2. WITH CURRENT FIRM 9
c. FIRM NAME AND LOCATION (City and State) GLHN Architects & Engineers, Inc. Tucson, Arizona			
d. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Architectural Engineering – Environmental Option Master of Architectural Engineering – Environmental Option		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Arizona #83047 / P.E. / Mechanical New Hampshire #11216 / P.E. / Mechanical	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) LEED Accredited Professional, Certified Commissioning Agent, Certified Level 1 Thermographer.			

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) CAMPUS WIDE RENOVATION PROJECT Yavapai College Verde Valley Campus, Clarkdale, Arizona	(2) Year Completed	
		Professional Services: 2011	Construction: 2011/2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm \$8.4 million, 94,000 SF Renovated to 160,000 SF, comprehensive utility development plans for 6 campuses. Mechanical Engineer.		
2)	(1) TITLE AND LOCATION (City and State) 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 <input checked="" type="checkbox"/> Check if project performed with current firm \$32 million dollar planning, design, construction administration and commissioning for the North Campus infrastructure project. Including capacity expansions to production, distribution systems and rehabilitation of utility systems required to support loads of main and AHSC campuses. Project in design. Mechanical Engineer.		
3)	(1) TITLE AND LOCATION (City and State) OLD MAIN STAFF RELOCATION STUDY & BEAR DOWN GYM TEMPORARY FACILITIES University of Arizona, Tucson, AZ	(2) Year Completed	
		Professional Services: 2012	Construction: 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm \$2.6 million, 64,800 GSF, quickly paced project to renovate bldg. and relocate staff with full functionality. Mechanical Engineer.		
4)	(1) TITLE AND LOCATION (City and State) AS-NEEDED LEED BUILDING COMMISSIONING SERVICES Northern Arizona University, Flagstaff, AZ	(2) Year Completed	
		Professional Services	Construction
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm GLHN has performed commissioning services for five building projects under this contract; Applied Research and Development (left, 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). The commissioning scope ensures that building elements are designed, installed, and calibrated to operate as intended. Services ongoing. Cx Agent.		
5)	(1) TITLE AND LOCATION (City and State) CAMPUS ENERGY REDUCTION PROGRAM & PROJECTS Arizona State University, Tempe, AZ	(2) Year Completed	
		Professional Services: 2012	Construction: 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm \$28 million, Utility Infrastructure Study, assess energy use in 20 large buildings, Infrastructure upgrades. Mechanical Engineer.		

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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section 4 for each key person.)

a. NAME Paul Norlne		b. ROLE IN THIS CONTRACT Technology Engineering Department Manager		c. YEARS EXPERIENCE	
				1. TOTAL 33	2. WITH CURRENT FIRM 4
c. FIRM NAME AND LOCATION (City and State) GLHN Architects & Engineers, Inc. Tucson, Arizona					
d. EDUCATION (DEGREE AND SPECIALIZATION) Undergraduate Studies - Architecture			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Technology Project Director for the Olympic Summer Games in Atlanta and the Winter Olympic Games in Salt Lake City, UT. Project Manager for Horseshoe Council Bluffs Casino Expansion in Iowa: 900 cameras and monitor points, digital signage with 50 plasma displays					
H. RELEVANT PROJECTS					
1)	(1) TITLE AND LOCATION (City and State) OLD MAIN STAFF RELOCATION STUDY & BEAR DOWN GYM TEMPORARY FACILITIES University of Arizona, Tucson, AZ			(2) Year Completed	
				Professional Services: 2012	Construction: 2012
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$2.6 million, 64,800 GSF, quickly paced proj. to renovate bldg. and relocate staff with full functionality. IT/Security Lead.			<input checked="" type="checkbox"/> Check if project performed with current firm		
2)	(1) TITLE AND LOCATION (City and State) YAVAPAI COLLEGE FACILITY CONDITION INDEX STUDY AND VERDE VALLEY CAMPUS SECURITY SYSTEMS, Yavapai College, Prescott and Clarkdale, Arizona			(2) Year Completed	
				Professional Services: 2013	Construction: 2013
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE In 54 Buildings of over 769,000 SF GLHN performed a Facility Condition Index Study of all six Yavapai campuses. GLHN also provided services for a new Access Control System and Surveillance System at two of the campus locations. IT/Security Lead.			<input checked="" type="checkbox"/> Check if project performed with current firm		
3)	(1) TITLE AND LOCATION (City and State) UITS DATA CENTER AND NETWORK OPERATIONS CENTER (NOC) University of Arizona, Tucson, AZ			(2) Year Completed	
				Professional Services: 2012	Construction: 2012
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The UITS project entails design of a 2,000 SF data center. GLHN provides architecture, power, lighting, mechanical, and fire protection design services. Cost: \$2.1 million. IT/Security Lead			<input checked="" type="checkbox"/> Check if project performed with current firm		
4)	(1) TITLE AND LOCATION (City and State) AMPHITHEATRE UNIFIED SCHOOL DISTRICT INFORMATIONTRANSPORT SYSTEM Amphitheatre School District, Tucson, Arizona			(2) Year Completed	
				Professional Services:	Construction:
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE GLHN is currently in the middle of this project which will ultimately renovate the communications infrastructure and computer systems for 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 which would be in conflict with any of the new design. IT/Security Lead			<input checked="" type="checkbox"/> Check if project performed with current firm		
5)	(1) TITLE AND LOCATION (City and State) 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 for the North Campus infrastructure project. Including capacity expansions to production, distribution systems and rehabilitation of utility systems required to support loads of main and AHSC campuses. Project in design. IT/Security Lead			<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 Benevidez, RCDD	b. ROLE IN THIS CONTRACT SR. Communications and Life Safety Systems Design Lead	c. YEARS EXPERIENCE	
		1. TOTAL 21	2. WITH CURRENT FIRM 4
c. FIRM NAME AND LOCATION (City and State) GLHN Architects & Engineers, Inc.			
e. EDUCATION (DEGREE AND SPECIALIZATION) Pima Community College, Tucson, AZ		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Building Industry Consulting Service International (BICSI) since 1999	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Previous to joining GLHN, Vicki dedicated three years of her career to an intense series of IT projects at the University of Arizona Medical Center in Tucson, accommodating over \$180 million in new construction.			

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) CAMPUS WIDE RENOVATION PROJECT Yavapai College Verde Valley Campus, Clarkdale, Arizona	(2) Year Completed	
		Professional Services: 2012	Construction: 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$8.4 million, 94,000 SF Renovated to 160,000 SF. GLHN led design for magnetic swipe card technology with interior/exterior readers, door/gate hardware, interface with fire alarm system, IP based surveillance at Verde Valley campus. Also provided IT design for a series of campus building renovations. IT/Fire Alarm Lead	<input checked="" type="checkbox"/> Check if project performed with current firm	
2)	(1) TITLE AND LOCATION (City and State) NATIONAL WILDLIFE REFUGE COMPLEX San Diego, California	(2) Year Completed	
		Professional Services: 2012	Construction: 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Voice/data, communications outlets, security devices, wireless access, security risks, digital signage. Admin Headquarters and Visitor Contact Station, certified LEED Gold and LEED Silver. 17,000 SF, Cost: \$5.7 million. Lead IT Designer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3)	(1) TITLE AND LOCATION (City and State) UITS DATA CENTER AND NETWORK OPERATIONS CENTER (NOC) University of Arizona, Tucson, AZ	(2) Year Completed	
		Professional Services: 2012	Construction: 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The UITS project entails design of a 2,000 SF data center. GLHN provides architecture, power, lighting, mechanical, and fire protection design services. Cost: \$2.1 million. Lead IT Designer	<input checked="" type="checkbox"/> Check if project performed with current firm	
4)	(1) TITLE AND LOCATION (City and State) VA DESIGN GUIDES, DESIGN MANUALS AND MASTER CONSTRUCTION SPECIFICATIONS Tucson, Arizona	(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	
5)	(1) TITLE AND LOCATION (City and State) SOUTHEAST AMBULATORY CARE CENTER Gila River Indian Community, Gila River Health Care, Sacaton, Arizona	(2) Year Completed	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Lead Communications Designer for new 140,000 SF Care Center: fire alarm, security, public address, video surveillance, monitoring, cable television, voice/data, audio/visual, and wireless. Project currently on hold.	<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 Kevin Miller, P.E.	b. ROLE IN THIS CONTRACT Civil Engineering Department Manager	c. YEARS EXPERIENCE	
		1. TOTAL 27	2. WITH CURRENT FIRM 3
c. FIRM NAME AND LOCATION (City and State) GLHN Architects & Engineers, Inc.			
d. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science in Civil Engineering		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Arizona #34091	

g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

H. RELEVANT PROJECTS			
	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	SCIENCE AND HEALTH BUILDING Northern Arizona University, Flagstaff, AZ		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE NAU Science and Health building is a 122,000SF, \$53 million, CMAR method using BIM job. Kevin is responsible for site design and underground utility distribution for chilled water, natural gas, electrical, and communications infrastructure. This project is currently under construction. Civil Engineering lead.		<input checked="" type="checkbox"/> Check if project performed with current firm
2)	Environment and Natural Resources Building 2 University of Arizona, Tucson, AZ		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE A 128,000 SF, \$43 million CMAR and BIM project. The University of Arizona requires a new state-of-the-art flexible research laboratory space to enhance faculty recruitment and funding opportunities. Designed for LEED Silver this project is currently under construction. Civil Engineer.		<input checked="" type="checkbox"/> Check if project performed with current firm
3)	FACILITIES MAINTENANCE/SPEED PROJECTS University of Arizona		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE A campus-wide capital improvement project for UA planning, design, and construction, including Utilities Development Roadmap and Utility Capacity Study, Campus Energy Audit and Energy savings/Equipment Longevity Projects, Facility Condition Assessments, Campus Primary Power Site Plan, 5-15kV Conversions, Air Handling Unit Replacements, Biosphere 2 Air handler Rehabilitation, Campus Sewer Master Plan, Greenhouse Gas Reporting Project, natural gas distribution, net metering and turbine operations, HVAC and generator replacements, and central plant upgrades. Currently under construction. Civil Engineering Lead.		<input checked="" type="checkbox"/> Check if project performed with current firm
4)	CAMPUS WIDE RENOVATION PROJECT Yavapai College Verde Valley Campus, Clarkdale, Arizona	Professional Services: 2012	Construction: 2011/2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$8.4 million, 94,000 SF Renovated to 160,000 SF, comprehensive utility development plans for 6 campuses. Civil Engineer.		<input checked="" type="checkbox"/> Check if project performed with current firm
5)	PHASE VII NORTH CAMPUS UTILITIES, University of Arizona, Tucson, Arizona		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$32 million dollar planning, design, construction administration and commissioning for the North Campus infrastructure project. Including capacity expansions to production, distribution systems and rehabilitation of utility systems required to support loads of main and AHSC campuses. Project in design. Civil 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.)

e. NAME Robert A. Alcalá, P.E.	f. ROLE IN THIS CONTRACT Electrical Engineering Department Manager	c. YEARS EXPERIENCE	
		3. TOTAL 45	4. WITH CURRENT FIRM 1
g. FIRM NAME AND LOCATION (City and State) GLHN Architects & Engineers, Inc.			
h. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science in Electrical Engineering Master of Science in Electrical Engineering		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Arizona #1485	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, 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)	FACILITIES MAINTENANCE/SPEED PROJECTS University of Arizona		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE A campus-wide capital improvement project for UA planning, design, and construction, including Utilities Development Roadmap and Utility Capacity Study, Campus Energy Audit and Energy savings/Equipment Longevity Projects, Facility Condition Assessments. New VFD units for new air handler units on the Forbes Building, Arizona Health Sciences Center, and Centennial hall. Currently under construction. Electrical Engineer.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
2)	UTILITIES DISTRIBUTION PLAN University of New Mexico, Gallup, NM		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE GLHN is currently working on an evaluation of existing 15 kV power system for growth over the next 10 years. Electrical Engineer.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
3)	SOUTHWESTERN INDIAN POLYTECHNIC INSTITUTE, UTILITIES MASTER PLAN Albuquerque, New Mexico.		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE GLHN is currently working on a Utility Master Plan for the polytechnic institute. A campus-wide evaluation of existing 15 kV power distribution system to accommodate facility growth. Electrical engineer.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
4)	HERITAGE PARK MASTER PLAN Town of Marana, Arizona		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE GLHN is currently working on development of a long range plan for electrical utility distribution for the Heritage park facilities. Electrical Engineer.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
5)			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		
	<input type="checkbox"/> Check if project performed with current firm		

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

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

a. TITLE AND LOCATION <i>(City and State)</i>	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. DOLLAR AMOUNT OF PROJECT	d. 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, has renovated spaces and systems in ten residence halls over the course of several years. 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.

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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present no more than five (5) projects. Complete one Section 5 for each project.)</i>		
a. TITLE AND LOCATION (City and State) 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. DOLLAR AMOUNT OF PROJECT \$32 million	e. TOTAL COST OF PROJECT \$32 million

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

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 included 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, energy efficient, sustainable and provided the redundancy required to support the 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 M

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> AS NEEDED LEED BUILDING 3 rd PARTY BUILDING COMMISSIONING SERVICES Northern Arizona University, Flagstaff, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Northern Arizona University	d. DOLLAR AMOUNT OF PROJECT \$100 million	f. TOTAL COST OF PROJECT \$100 million
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(include scope, size, and length of project)*

GLHN has performed commissioning services for five building projects under this contract; **Applied Research and Development** (left, 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). The commissioning scope ensures that building elements are designed, installed, and calibrated to operate as intended. The "Additional Commission" credit requires involvement of a third party Building Commissioning Team whose primary-additional task is the preparation of "focused" technical reviews of building design and construction submittals. In order to further ensure a building's elements are designed, installed, and calibrated to operate as intended, GLHN is involved early during the design process, and remains involved after the construction process to reconcile outstanding issues. The Applied Research and Development Building is Certified LEED 'Platinum'. Many unique and unusual systems were installed in this building, and practical issues raised by GLHN during design reviews were thoroughly addressed and successfully resolved with the project team. ARD was granted LEED® Platinum certification by integrating many sustainable strategies: This is an ongoing, open-end project.

- The building is long and thin to maximize daylight and minimize electric lighting needs
- A concrete structural frame stores heat in the winter and cool in the summer to reduce energy required for heating and air-conditioning
- Low-pressure under-floor air distribution reduces fan sizes and energy requirements
- A nearby field of photovoltaic panels donated by APS produces 160 kilowatts and produces more than 20 percent of the electricity for the building
- Triple-glazed windows on the building's north side minimize unwanted energy loss and gain
- Automated shade controls regulate solar gain to maintain a comfortable gallery environment
- The combined impact of all these strategies is to reduce the energy consumption by 89% compared to a typical building
- Reclaimed water is used to flush toilets and irrigate the landscape
- A third of the building is built of recycled materials – carpet, insulation, steel and aluminum
- 92 percent of construction waste was diverted from the landfill
- Pervious concrete is used in the parking lot to allow storm water to drain through the paving, recharging the aquifer

**RFQ# ADSP014-00003465, Annual Request for Qualifications and Experience
REVISED - Attachment I – General Qualifications**

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> UITS DATA CENTER AND NETWORK OPERATIONS CENTER (NOC) University of Arizona, Tucson, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2011	CONSTRUCTION <i>(If applicable)</i> 2011

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER University of Arizona	d. DOLLAR AMOUNT OF PROJECT \$2.1 million	e. TOTAL COST OF PROJECT \$2.1 million
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(include scope, size, and length of project)*

The UITS project entails design of a 2,000 SF data center. GLHN provides architecture, power, lighting, mechanical, and fire protection design services.

Design included 800kVA of UPS, cable tray for wire management, plug in bus for power flexibility, redundant 30 ton CRAC units, and an FM 200 system to protect the raised floor area. A Network Operations Center (NOC) was designed with view glass looking out onto the raised floor data center, power, lighting, and connectivity for monitors and alarm panels.

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	
YAVAPAI COLLEGE FACILITY CONDITION INDEX (FCI) STUDY AND VERDE VALLEY CAMPUS SECURITY SYSTEM Yavapai College, Prescott and Clarkdale, Arizona	PROFESSIONAL SERVICES 2012(fca) 2013 (sec)	CONSTRUCTION <i>(If applicable)</i> 2013

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. DOLLAR AMOUNT OF PROJECT	f. TOTAL COST OF PROJECT
Yavapai College	\$100,000	\$100,000

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

Yavapai College (YC) selected GLHN to perform a Facility Condition Index Study of all six YC campuses located in Northern Arizona [Chino Valley, Career Technology and Education Center (CTEC), Prescott (main campus), Prescott Valley, Sedona, and Verde Valley], totaling 54 buildings and more than 769,000 SF. Design was completed in 2012, construction/installation will be completed in 2013. The systems examined include the following.

Architecture: exterior walls, roof, windows, doors; interior walls, floors, ceilings, doors, and finishes

Electrical: power and lighting, generators, fire alarm, and auxiliary systems

Mechanical: cooling and heating equipment, plumbing, and fire suppression

Information Technology: telephone and data systems with associated infrastructure, security and access control systems, surveillance systems.

Upon completion of the FCI, GLHN was retained by the College under the firm's On-Call contract to provide design and construction period services for a new Access Control System and Surveillance System at the Verde Valley campus located in Clarkdale. GLHN is providing all associated architectural, electrical/lighting, mechanical, civil (conduit routing), and technology engineering services. The scope of work includes the following.

- Magnetic swipe card technology with surface mounted readers located both at interior and exterior locations coordinated with the YC staff.
- Doors and gates to utilize electric strikes and locksets as provided by the hardware supplier.
- Access Control System that utilizes the existing supplier, Blackboard, if and where possible, and new system to integrate with the existing.
- Interface with the fire alarm system to allow the release of all secured door locations in the event of a fire or emergency event.
- Surveillance system, IP based utilizing IP cameras for on-site and remote monitoring and recording.

**RFQ# ADSP014-00003465, Annual Request for Qualifications and Experience
 REVISED - Attachment I – General Qualifications
 6. ADDITIONAL INFORMATION**

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

Celebrating its 50th anniversary in 2013, GLHN Architects & Engineers, Inc. is an employee-owned firm headquartered in Tucson, Arizona with a satellite office in Flagstaff, Arizona. The firm offers integrated, multi-discipline services in architecture and mechanical, electrical, civil, and technology engineering. GLHN has a staff of over 80, including LEED Accredited Professionals in all disciplines, Registered Communications Distribution Designers, Building Energy Simulation Analysts, Certified Energy Managers, Energy Reduction Analysts, Certified Commissioning Agents and Technicians, staff Certified in Plumbing Engineering, a Lighting Certified designer, and a Registered Land Surveyor.

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 developing innovative campus carbon reduction programs. 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.

In 2008, GLHN created GLHNgreen, an initiative to support and promote 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 believes Building Information Modeling (BIM) is the future of the industry and has transitioned from 2D CAD production to fully-integrated 3D design.

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

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

Signature:  Date: 12-12-2013

Name: Brian G. Hagedorn Title: Director of Architecture