



**Request for Qualifications**  
 Solicitation No.  
**ADSP018-00007887**  
 Description:  
**2018 Professional Services List**

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

**Offer Forms**  
 (Attachments)  
 Date: **January 8, 2018**

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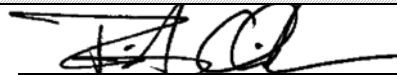
	<b>Request for Qualifications</b> Solicitation No. <b>ADSP018-00007887</b> Description: <b>2018 Professional Services List</b>	Arizona Department of Administration <b>State Procurement Office</b> 100 N 15th Ave., Suite 201 Phoenix, AZ 85007
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Attachment 1  
Offer and Acceptance Form

**SUBMISSION OF OFFER:** Undersigned hereby offers and agrees to provide qualifications for **2018 Annual Professional Services List** in compliance with the Solicitation indicated above and our Offer indicated by the latest dated version below:

Initial Offer:	1. <b>1/23/18</b> date	<b>TEQ</b> initial	
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**Michael Baker International, Inc.**



**TEQ**

Offeror company name

Signature of person authorized to sign Offer

Initials

**2929 N. Central Avenue, Suite 800**  
**Phoenix Plaza Tower II**

**Timothy E. Quillman, P.E., Vice President/Office Executive**

Address

Printed name and title

**Phoenix | Arizona | 85012**

**Timothy E. Quillman, P.E., Vice President/Office Executive**

City | State | ZIP

Contact name and title

**25-1228638**

**Tquillman@mbakerintl.com    602-798-7517**

Federal tax identifier (EIN or SSN)

Contact Email Address

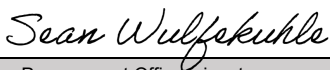
Contact phone number

**CERTIFICATION:** By signature in the above, Offeror certifies that it:

1. will not discriminate against any employee or applicant for employment in violation of Federal Executive Order 11246, [Arizona] State Executive Order 2009-9 or A.R.S. §§ 41-1461 through 1465;
2. 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 will result in rejection of the Offer. Signing the Offer with a false statement will void the Offer, any resulting contract, and may be subject to legal penalties under law;
3. complies with A.R.S. § 41-3532 when offering electronics or information technology products, services, or maintenance; and
4. is not debarred from, or otherwise prohibited from participating in any contract awarded by federal, state, or local government.

**ACCEPTANCE OF OFFER:** State hereby **accepts the initial Offer**, Revised Offer, or Best and Final Offer identified by number **ADSP018-00007887** at the top of this form, and which was dated January 23, 2018 (the Accepted Offer). Offeror is now bound (as Contractor) to carry out the Work under the attached Contract, of which the Accepted Offer forms a part. Contractor is cautioned not to commence any billable work or to provide any material or perform any service under the Contract until Contractor receives the applicable Order or written notice to proceed from Procurement Officer.

**State's Contract No. is:** ADSP018-00007887    **The effective date of the Contract:** 1/30/18-1/31/19    **Contract awarded:** 1/30/18



**Sean Wulfekuhle**

Procurement Officer signature

Procurement Officer printed name

Contract qualification award can be viewed at <https://spo.az.gov/procurement-services/professional-services>



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Attachment 2-A  
**Experience and Capacity**

STATE MAY DETERMINE YOUR SUBMITTAL IS NON-RESPONSIVE IF YOU DO NOT ANSWER ALL QUESTIONS FULLY.

**DEFINITIONS**

**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.

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

**Parent Company.** Identify controlling company name in this field if the Firm is owned or controlled by another company.

**Structure:** How a business is organized to accomplish its objectives (ie, Sole Proprietor, Limited Liability Company, Cooperative, Corporation, Partnership, S Corporation). [See chart below for example:](#)

Entity Type	Structure
Corporation	S Corporation or C Corporation, or Professional Corporation
Cooperative	Cooperative
Partnership	General Partnership, Limited Partnership, Limited Liability Partnership, Limited Liability Limited Partnership
Sole Proprietor	Sole Proprietor
Limited Liability Company	Limited Liability Company or Professional Limited Liability Company

**1.0 Five (5) Example Projects**

List no more than five (5) example projects which best illustrate firm’s qualification for this contract [in the chart provided below](#). Select projects where multiple team members worked together, if possible, that demonstrate the team’s capability to perform work similar to that required for this qualifications list contract. [\(NOTE: The integrity of the chart table columns shall remain unchanged, however the rows for each project may be expanded by the Offeror to accommodate the information\).](#)

- 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.



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Title and Location of Project	Design Completion Year	Construction Completion Year	Project Owner	Project Original Budget (or not to exceed amount)	Total Cost of the Project	Brief Description of Project
Yuma Border Patrol Sector Headquarters Command and Control (C2) Renovations, Yuma, Arizona	2016		USACE	\$334,339 (Fee)	\$334,339 (Fee)	Michael Baker provided architecture and engineering services for renovation of the Yuma Border Patrol Sector Command and Control (C2) Facility. Michael Baker designed a modular facility in order to ensure undisturbed operations while the C2 facility was renovated. The C2 Center renovation of the existing space to improve the overall functionality, upgrade the communications and electrical services, and refresh the interior environment to benefit the border patrol agents' well-being. Michael Baker provided mechanical, electrical, and telecommunications design.
Paseo Vista Recreation Area Drainage Site Plan / Improvement, Chandler, Arizona	2016	2016	City of Chandler	\$204,841 (Fee)	\$204,841 (Fee)	Michael Baker completed the drainage analysis and report for controlling stormwater run-off throughout the 64-acre Paseo Vista Recreation Area. Michael Baker developed erosion and drainage control construction plans based on the



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						results of the drainage analysis and a drainage control maintenance plan for the City for use in maintaining newly constructed storm control features.
S.R. 86, Valencia Road to Kinney Road, Tucson, Arizona	2015		Arizona Department of Transportation	\$4,357,142 (Fee)	\$4,357,142 (Fee)	<p>The Michael Baker Team added two lanes to the existing roadway to create a four-lane divided highway. The design considered the need to transition from the proposed roadway to the existing roadway while maintaining two lanes of traffic at all time during construction.</p> <p>Michael Baker was responsible for ensuring that all communications, closed circuit television (CCTV) cameras, dynamic message signs (DMS), and detection equipment specified in the design were compatible with existing Freeway Management System/Intelligent Transportation System (FMS/ITS) infrastructure. The design included communication block diagrams, DMS and structure information, CCTV camera mounting details, CCTV and DMS cabinet block diagrams, loop detector system for traffic counting and monitoring, wireless</p>



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						<p>equipment, and fiber optic cable.</p> <p>This project included development of a design memorandum document (DMD); plans, specifications, and estimate (PS and preliminary and detailed design.) The design involved extensive utility relocation along with the construction of 13 major drainage structures and two bridges. Significant realignment and reconstruction of local access roads were also required to eliminate substantial skew angles and create safer signalized intersections.</p> <p>The Michael Baker team performed all work necessary to provide the client with a design for the intelligent transportation system (ITS) along S.R. 86 from Valencia Road to Kinney Road, including 1,800 feet of sewer line for Pima County Regional Water Reclamation Department (PCRWRD).</p> <p>Water/Sewer: Design, Special provisions and cost estimates were prepared for the extensive relocation of utilities for 12,500 linear feet of waterline for the City</p>
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						<p>of Tucson Water Department. At initial review, several sewer lines appeared to be in conflict with the proposed new roadway work. ADOT requested that all sewer manholes within the project pavement be relocated outside. In order to save costs and have minimal negative impact on the SR 86 traffic flow, Michael Baker was able to negotiate alternative solutions that allowed a portion of the existing system to remain in place. By minimizing the rework and replacement of the existing system, Michael Baker was able to reduce the project construction cost.</p> <p><b>Added Value:</b> Since the roadway, drainage, and utility relocation were all provided by the same company; Michael Baker was able to harness the expertise of the full design team and approach design issues from a big picture project perspective. This streamlined the design and project coordination efforts and led to a win-win project approach.</p>
Milton Road and US 180 Corridor Master Plan Study,	2017		Arizona Department of Transportation	\$594,850 (Fee)	\$594,850 (Fee)	Michael Baker is conducting corridor master plan studies of the Milton Road (S.R. 89/S.R. 40) and



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<p><b>Flagstaff, Arizona</b></p>						<p><b>U.S. 180 (Humphreys Street) corridors. Michael Baker's services include project management, partnering, data collection and analysis, stakeholder and railroad coordination, public involvement, environmental overview, alternatives analyses, forecasting, conceptual design, cost estimate and funding source development, and report preparation.</b></p> <p><b><u>Project Background</u></b></p> <p><b>Milton Road is a minor arterial and U.S. 180 is a major collector that bisect Flagstaff. Traffic congestion on Milton Road all year and on U.S. 180 seasonally has become a challenge in the community and for travelers visiting for snow play. The local metropolitan planning organization has conducted two studies during the last five years to develop solutions for the congestion, and recommends adding capacity to Milton Road. A regional public transportation authority that conducted a corridor study identified Milton Road as a potential route for bus rapid transit. The department has determined that corridor master plans are needed for both</b></p>
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						<p>routes to identify 20-year plans to address the traffic congestion.</p> <p><b><u>Project Management</u></b>  Michael Baker's project management services include developing the project work plan; facilitating partnering, kick-off and progress meetings; developing the public involvement plan; preparing and distributing presentation materials and minutes for meetings; and managing project team personnel and subconsultants.</p> <p><b><u>Partnering and Stakeholder Coordination</u></b>  Because of the large number and diversity of the stakeholders involved, Michael Baker is initiating the project with a partnering session to identify project management partners, establish a communication protocol, generate consensus, refine the project work plan, and develop a partnering charter. Stakeholders include representatives of the department; federal, state, county, and municipal agencies; metropolitan and regional planning organizations; and various</p>
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						<p>neighborhood groups and coalitions.</p> <p>In addition to the partnering session, Michael Baker will make presentations to the city council and county board of supervisors to share the alternatives analysis and recommended alternatives prior to sharing with the public. Michael Baker will also coordinate with the BNSF Railroad during development of conceptual plans. Following the partnering session, Michael Baker will develop a presentation identifying the study goals, project schedule, team members, and key milestones, and conduct a project kick-off meeting.</p> <p><u>Data Collection and Analysis</u></p> <p>Michael Baker will collect and compile information from previous studies, recommendations, and previous public and agency input. There are approximately 20 years of available traffic data, alternatives analyses, and public input. Michael Baker will prepare working papers to compile existing information for both corridors, to summarize the alternatives analysis</p>
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						<p>and to document the recommended alternatives and implementation plans.</p> <p>The working papers will also include an environmental overview, describing the corridors' social, economic, and environmental character; existing conditions, including land use and ownership, traffic data, roadway functional classifications, pavement conditions, and crash history; and future condition forecasting.</p> <p><b><u>Future Conditions Analysis</u></b></p> <p>Based on the collected data and stakeholder input, Michael Baker will develop feasible alternatives for improvements to the Milton Road and U.S. 180 corridors for the short-term, midterm, and 20-year long term. The alternatives will consider right-of-way impacts and limits, environmental constraints, and potential utility conflicts. The alternatives analysis will include a no-build alternative. The Michael Baker team will build upon existing VISSIM and Synchro models to forecast traffic impacts, and conduct surveys and meetings with local</p>
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						<p>business representatives to collect information regarding operational impacts of each of the feasible alternatives. The alternatives will also consider pedestrian, bicycle, and transit modes of transportation. Michael Baker will prepare conceptual engineering plans for each of the feasible alternatives. The recommended improvements are expected to include a combination of capacity enhancements and operational improvements, such as adaptive traffic signal systems, pedestrian signals, managed or reversible lanes, intelligent transportation systems, and identification of alternate routes.</p> <p><u>Public Involvement</u>      Michael Baker will conduct two public meetings to review the working papers and possible alternatives with the general public to solicit input for the alternatives.</p> <p><u>Final Report</u>      Michael Baker will develop a final report with the specific, prioritized list of five-year, 10-year, and 20-year projects for improvements to the corridors. The final</p>
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						<p>report will include recommendations for future studies, a description of the benefits of each project, and an implementation plan with preliminary cost estimates. Recommendations for projects may include pavement preservation, pavement markings and striping, lighting and signage improvements, intersection improvements, new road construction, roadway widening, new bridges, transit services, and trail and pedestrian facilities. The final report will also include potential funding sources, such as federal and state funds, cooperative agreements with other agencies, federal transit grants, and other government programs.</p>
<p><b>Stormwater Management Master Plan, Chandler, Arizona</b></p>	<p><b>2017 (Est.)</b></p>		<p><b>City of Chandler</b></p>	<p><b>\$233,823 (Fee)</b></p>	<p><b>\$233,823 (Fee)</b></p>	<p><b>Michael Baker assisted the City in complying with the renewed Phase II municipal separate storm sewer system (MS4) permit, including development of a stormwater management program (SWMP). This included identifying changes necessary to meet new requirements, recommendations for modifications to city</b></p>



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						<b>standards, regulations, drainage, and inspection and maintenance programs.</b>
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Attachment 2-A  
**Experience and Capacity**

STATE MAY DETERMINE YOUR SUBMITTAL IS NON-RESPONSIVE IF YOU DO NOT ANSWER ALL QUESTIONS FULLY.

## 2.0 EMPLOYEES BY DISCIPLINE

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

Enter requested information in the chart provided below:

- a. Select disciplines from the List of Disciplines. For employees that do not qualify for any of the disciplines, select "Other".
- 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. (NOTE: The Offeror may insert or delete rows in the existing Employees by Discipline chart table on page six (6) as necessary to complete the requirements for Question 2).



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EXAMPLE:

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees Firm	d. No. of Employees Branch
Example: Architect	P	138	50-Yuma Branch 50-Tempe Branch 38 – Phoenix Branch
Example: Architect	S	20	5-Yuma Branch 5-Tempe Branch 5 – Phoenix Branch 5- Tucson Branch

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees Firm	d. No. of Employees Branch
Archeologist	P	39	
Architect	P	45	3 – Phoenix Branch
Biologist	P	12	
CADD Technician	P	180	6 – Phoenix Branch
Civil Engineer	P	412	9 – Phoenix Branch
Construction Manager	P	104	1 – Phoenix Branch
Construction Inspector	P	227	1 – Phoenix Branch
Cost Engineer/Estimator	P	23	
Ecologist	P	6	
Electrical Engineer	P	14	
Environmental Engineer	P	6	





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Environmental Scientist	P	115	2 – Phoenix Branch
Geodetic Surveyor	P	2	
Geographic Information System	P	134	1 – Phoenix Branch
Geologist	P	20	
Hydrologist	P	4	
Landscape Architect	P	7	
Mechanical Engineer	P	15	
Project Manager	P	72	3 – Phoenix Branch
Soils Engineer	P	15	
Structural Engineer	P	135	
Technician/Analyst	P	583	11 – Phoenix Branch
Transportation Engineer	P	122	2 – Phoenix Branch
Other	P	1,119	26 – Phoenix Branch
<b>Total</b>	P	3,411	65 – Phoenix Branch

### 3.0 FIRMS EXPERIENCE AND REVENUE

- a. Firm shall complete the document titled “Project Experience Number of Projects and Revenue”, using same document title and upload in .pdf format only as an “Attachment” with firm’s offer in ProcureAZ.

### 4.0 FIRMS SERVICES

- a. Firm shall complete the Excel spreadsheet titled “**2018 Professional Services List of Firms Services**” using same document title and uploaded in Excel format only as an “Attachment” with firm’s offer in ProcureAZ.



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**5.0 EXPERIENCE REFERENCES:**

THE PRIME FIRM SHALL LIST A TOTAL OF THREE (3) CLIENT REFERENCES FOR ANY PROJECTS COMPLETED IN THE LAST YEAR BY THE FIRM (OR A BRANCH LOCATION). REFERENCES MAY BE CONTACTED BY ANY ELIGIBLE AGENCY.

<b>1</b>	<b>Client Company/Address</b>	<b>Contact</b>	<b>Begin Date</b>	<b>End Date</b>
	<b>Arizona Department of Transportation/206 S. 17<sup>th</sup> Avenue, MD 616E Engineering Consultant Section Phoenix, AZ 85007</b>	<b>Dan Gabiou</b>	<b>5/30/17</b>	<b>12/31/17</b>
	<b>Phone Number</b>	<b>Email Address</b>		
	<b>602-712-7025</b>	<b>dgabiou@azdot.gov</b>		
<p>List project name, project location, original design fee, final design fee, construction costs (if applicable), and program facilities (What were the uses, facilities, or activities that were built. For example; lift station, parking lot, bridge, playground, sewerage treatment plant, storm drainage, etc.).</p> <p><b>Milton Road and US 180 Corridor Master Plan Study, Flagstaff, Arizona, \$594,850 (Fee)</b></p> <p>Services performed similar to those described in Solicitation</p> <p><b>Project management; Partnering; Data collection and analysis; Stakeholder and railroad coordination; Public involvement; Environmental overview; Alternatives analyses; Traffic impact analysis; Forecasting; Conceptual design; Cost estimates; Funding source identification</b></p>				
<b>2</b>	<b>Client Company/Address</b>	<b>Contact</b>	<b>Begin Date</b>	<b>End Date</b>
	<b>Border Environment Cooperation Commission / P.O. Box 221648, El Paso, TX 79913</b>	<b>Gerardo Calza</b>	<b>3/14/19</b>	<b>12/31/17</b>
	<b>Phone Number</b>	<b>Email Address</b>		
	<b>915-209-7852</b>	<b>gcalza@cocef.org</b>		
<p>List project name, project location, original design fee, final design fee, construction costs (if applicable), and program facilities (What were the uses, facilities, or activities that were built. For example; lift station, parking lot, bridge, playground, sewerage treatment plant, storm drainage, etc.).</p> <p><b>Douglas/Agua Prieta Flood Hazard Mitigation Study, Douglas Arizona and Agua Prieta, Mexico \$258,717 (Fee)</b></p> <p>Services performed similar to those described in Solicitation</p> <p><b>Hydrology and hydraulic modeling; flood hazard areas evaluation; mitigation alternatives; feasibility analysis</b></p>				



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3	Client Company/Address	Contact	Begin Date	End Date
	<b>Mohave County Flood Control District / 700 W. Beale St., Kingman, AZ 86401</b>	<b>Shannon Summers</b>	<b>10/1/14</b>	<b>3/31/18 est.</b>
	Phone Number	Email Address		
	<b>928-757-0925</b>	<b>Shannon.summers@co.mohave.az.us</b>		
<p>List project name, project location, original design fee, final design fee, construction costs (if applicable), and program facilities (What were the uses, facilities, or activities that were built. For example; lift station, parking lot, bridge, playground, sewerage treatment plant, storm drainage, etc.).</p>				
<p><b>Floodplain On-Call, Mohave County, Arizona \$470,978 (Fee)</b></p>				
<p>Services performed similar to those described in Solicitation</p> <p><b>Floodplain re-delineation study; GIS data collection, mapping, and custom scripts; hydrology and hydraulics FLO-2D modeling; partnering</b></p>				

End of Attachment 2-A

	<p align="center"><b>Request for Qualifications</b> Solicitation No. <b>ADSP018-00007887</b> Description: <b>2018 Professional Services List</b></p>	<p align="right">Arizona Department of Administration <b>State Procurement Office</b> 100 N 15th Ave., Suite 201 Phoenix, AZ 85007</p>
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Attachment 2-B  
**Organization Profile**

STATE MAY DETERMINE YOUR PROPOSAL IS NON-RESPONSIVE IF YOU DO NOT ANSWER ALL QUESTIONS FULLY.

**ORGANIZATION PROFILE**

The firm shall complete a separate Organizational Profile document for each branch office.

<b>Firm Name</b>	<b>Michael Baker International, Inc.</b>	<b>Year established</b>	<b>1984</b>	
<b>Principal address (street, city, state)</b>	<b>2929 N. Central Avenue, Suite 800, Phoenix Plaza Tower II, Phoenix, AZ 85012</b>			
<b>Entity type:</b>	<b>Corporation</b>	<b>Structure:</b>	<b>C Corporation</b>	
<b>Branch or Division:</b>	<b>Branch</b>	<b>Parent Company:</b>	<b>Michael Baker International Holdco Corporation</b>	
<b>Years the organization has conducted business in Arizona.</b>			<b>34 years</b>	
<b>Contract Representatives to Contact</b>				
	<b>Name</b>	<b>Title</b>	<b>Telephone Number</b>	<b>E-Mail Address</b>
<b>1.</b>	<b>Tim Quillman</b>	<b>Office Executive/Vice President</b>	<b>602-798-7517</b>	<b>TQuillman@mbakerintl.com</b>
<b>2.</b>				
<b>3.</b>				
<b>Firm Professional Registration and Certifications (INCLUDE COPY OF DOCUMENT IN OFFER)</b>				
	<b>Description</b>	<b>Issuer</b>	<b>Number</b>	<b>Expiration</b>
<b>1.</b>	<b>Arizona Board of Technical Registration</b>	<b>State of Arizona</b>	<b>11037-1 11037</b>	<b>4/14/19 1/7/19</b>
<b>2.</b>	<b>Arizona transaction privilege tax license or (if applicable) Arizona Corporate Commission Certificate of Good Standing</b>	<b>State of Arizona</b>	<b>Certificate of Good Standing</b>	

**ATTACHMENT 2-B SUPPLEMENTS:**

(For submission of additional Organizational Profile qualifications beyond the number of forms provided in the Offer Documents: Offeror shall copy the Organizational Profile form in its entirety and complete in a separate Document for submission with the offer or type "None" on first line if not applicable. Offeror shall title Supplement(s) with the same

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beginning title as named herein, number sequentially in accordance with the number of Organizational Profile forms submitting and upload with offer.).

	Title	Document Date	No. of pages	Purpose in Offer
3.	Attachment 2-B Organizational Profile_Firm Professional License_Michael Baker International	1/23/18	3	

(NOTE: The Offeror may insert additional rows as required).

**End of Attachment 2-B**



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Attachment 3-A  
**Method Proposal**  
(Method of Approach)

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**RESERVED FOR AWARDED DESIGN PROFESSIONAL UPON SERVICE REQUEST**

**End of Attachment 3-A**

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Attachment 3-B  
**Key Personnel Proposal**

Answer all questions thoroughly in the spaces provided. **Complete this form in full for each one of the key personnel who will participate in this contract.** Insert or attach a separate resume if desired, but any attached resumes are supplemental to this form and **do not substitute resumes for this form.** Offeror shall list any resume filename within the Key Personnel Form resume section **and Attach as titled and submit with firm's offer in ProcureAZ. Resumes shall not be listed in Attachment 3-B as Supplements.**

<b>1</b>	Name:	<b>Tim Quillman, PE</b>	How long with company?	<b>14 years</b>
	Current position in company:	<b>Office Executive/Vice President</b>	How long in position?	<b>1 year</b>
	Position for the Services:	<b>Principal-In-Charge</b>	How much of time will be dedicated to the Services?	<b>15 %</b>
	What primary functions will be assigned?	<b>Ensuring the Michael Baker project manager and team is serving client, executing project scope, while meeting financial and quality control metrics.</b>		



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<p>Describe person's experience in performing services like those that are to be assigned:</p>	<p>Mr. Quillman is a registered professional engineer in the state of Arizona, California, and Texas with a technical background in civil design along with bridge design and inspection.</p> <p>For the past ten plus years, Mr. Quillman has gained a broad range of experience working on both multi-discipline Federal contracts, primarily through the United States Army Corps of Engineers, Fort Worth District (USACE) Engineering and Construction Support Office (ECSO) and local municipal project. Over that time span, USACE ECSO has been contracted to provide Department of Homeland Security, Customs and Border Protection (CBP) assistance in improving their tactical infrastructure (TI) for various Border Patrol Sectors (OBP). With USACE ECSO as a client, Mr. Quillman has had the opportunity to provide Engineering and Project Management services for upgrading CBP TI which includes items such as roads, fence/barriers, drainage control, lighting and bridges as well as participating on Project Development Teams that identify and plan future projects. On the municipal side, Mr. Quillman has worked on a variety of projects some of which include the Rio de Flag flood control project, Crismon and Hawes Road gas line extensions and Paseo Visita Recreation Area drainage improvements.</p> <p>In addition to his project work, Mr. Quillman also currently serves as the operations manager for the Infrastructure group within the Michael Baker Phoenix office. As part of his duties, Mr. Quillman oversees operations of general civil engineering design, transportation/traffic engineering, structural engineering, surface water engineering, water resources engineering and environmental compliance inspections. In leading the operations effort, Mr. Quillman has been involved in balancing project requirements with available resources; project reviews; guiding junior staff in the development of construction plans and specifications; implementation and continued use of design and CAD standards for projects; and, quality assurance audits on project administration and quality control completed by department project managers.</p>
<p>List person's job-related training and education:</p>	<p>Master's Certificate, 2006, Project Management, University of Houston, Clear Lake          B.S., 1999, Civil Engineering, University of Arizona          Professional Engineer - Civil: Arizona – 40857; California - C68643; Texas - 97633</p>
<p><b>Resume:</b></p>	<p><a href="#">Attachment 3-B Key Personnel Form Supplement Resumes.pdf</a></p>





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<b>2</b>	<b>Name:</b>	<b>Bruce Preston, RA, PMP, DBIA, LEED AP BD+C</b>	How long with company?	<b>9 years</b>
	Current position in company:	<b>Project Manager/Operations Manager</b>	How long in position?	<b>3 years</b>
	Position for the Services:	<b>Architecture</b>	How much of time will be dedicated to the Services?	<b>25 %</b>
	What primary functions will be assigned?	<b>Architecture, design, CAD support</b>		
	Describe person's experience in performing services like those that are to be assigned:	<p>Mr. Preston has been practicing project management and architecture in various fields for over a decade. His experience ranges from multi-project management, project program and design document preparation, and construction administration. He has provided services to municipal, state and federal agencies, design/build contractors, developers, and individual clients. He has in-depth experience with the following project types: including federal government Department of Defense, mixed use/retail, telecommunications, assisted living, dormitory and military housing, commercial office buildings, hospitality, transportation, child care, and educational facilities. Mr. Preston is integral to the management team for the design, selection, coordination, and detailing of architectural materials and systems and is involved in developing project specifications. He is skilled in Building Information Modeling (BIM), the latest 3D modeling that uses virtual design for project collaboration from design through construction. Mr. Preston participates in the architectural design process and develops alternative solutions for the client or agency. In addition to providing architectural design and BIM support, he has experience providing on-site observation services throughout the construction process, ensuring that the work is consistent with the construction documents and the architectural design intent. His imminent involvement as a design manager allows him to be able to keep the design on schedule and within budget. As a LEED AP BD+C, he is responsible for the execution of LEED during the design process on several projects as well as being the LEED AP and Coordinator for the project scorecards tracking design credits.</p>		
	List person's job-related training and education:	<p>Revit Fundamentals Certificate, 2009          Revit Fundamentals Certificate, 2011          Revit Architecture Certified Professional, 2009          Revit Architecture Certified Professional, 2011          LEED Green Associate, 2009          Design-Build Professional, 2011          LEED Accredited Professional BD+C, 2011          Project Management Professional (PMP), 2015          Registered Architect: Arizona - 62802</p>		
	<b>Resume:</b>	<b><a href="#">Attachment 3-B Key Personnel Form Supplement Resumes.pdf</a></b>		

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<b>3</b>	<b>Name:</b>	<b>Pawel Paszczuk, RA, LEED</b>	How long with company?	<b>9 years</b>
	Current position in company:	<b>Architect</b>	How long in position?	<b>9 years</b>
	Position for the Services:	<b>Architecture</b>	How much of time will be dedicated to the Services?	<b>50 %</b>
	What primary functions will be assigned?	<b>Architecture, design, production of documents</b>		
	Describe person's experience in performing services like those that are to be assigned:	<p>Mr. Paszczuk is a highly motivated, creative and versatile Project Architect with several years of experience ranging from schematic design to construction administration as well as the management of CAD production teams on projects ranging from 6,000 to over 500,000 square feet. He has a talent for analyzing problems, developing and simplifying procedures, and finding innovative solutions. He also has extensive knowledge of AutoCAD Architecture, Adobe Photoshop and Google SketchUp. Mr. Paszczuk is an energetic self-starter with excellent analytical and organizational skills.</p>		
	List person's job-related training and education:	<p>B.Arch., 2001, Architecture, Roger Williams University            NCARB, 2008, 107143            LEED Accredited Professional, 2009            Registered Architect: Arizona – 49179; Connecticut – 11653; Alaska - AELA14792</p>		
	<b>Resume:</b>	<b>Attachment 3-B Key Personnel Form Supplement Resumes.pdf</b>		



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<b>4</b>	<b>Name:</b>	<b>Wayne Frank, AIA</b>	How long with company?	<b>3 years</b>
	Current position in company:	<b>Project Manager</b>	How long in position?	<b>3 years</b>
	Position for the Services:	<b>Architecture</b>	How much of time will be dedicated to the Services?	<b>50%</b>
	What primary functions will be assigned?	<b>Architecture, project management</b>		
	Describe person's experience in performing services like those that are to be assigned:	<p>Mr. Frank is an experienced architect with several years experience working with complex and technologically advanced clients such as Kirtland Air Force Base, Sandia National Labs, the Federal Aviation Administration, and many municipalities. He is able work closely with clients, coordinate complicated systems and meet sophisticated design requirements through his experience and communication skills. He has been involved with a varied array of projects such as offices, public and schools, technology labs, museums, and public buildings. Among all of these communication and meeting a client's needs are always his top priority. He is interested in sustainable design and construction and received the LEED Accreditation in 2004. Wayne has won design awards for planning and building design. Wayne is excellent at multi-tasking and delivering an on-time quality project. Wayne has received a Masters in Construction Management and knows how to effectively manage projects. His best qualities are his honesty, integrity, and work dedication. As a Project Architect for Michael Baker International, he will use all of his abilities to successfully execute each project that he is involved with.</p>		
	List person's job-related training and education:	<p>MCM, 2008, Construction Management, University of New Mexico          M.Arch., 2004, Architecture, University of New Mexico          B.Arch., 2002, Architecture, University of New Mexico          Registered Professional Architect: Arizona – 60570; Missouri - 2011025121;          California - 34530; New Mexico - 4395; Oklahoma - 6743</p>		
	<b>Resume:</b>	<b><a href="#">Attachment 3-B Key Personnel Form Supplement Resumes.pdf</a></b>		



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<b>5</b>	<b>Name:</b>	<b>Kevin Kugler, AICP</b>	How long with company?	<b>14 years</b>
	Current position in company:	<b>Technical Manager</b>	How long in position?	<b>6 years</b>
	Position for the Services:	<b>Transportation Planning Manager</b>	How much of time will be dedicated to the Services?	<b>30%</b>
	What primary functions will be assigned?	<b>Project management and oversight</b>		
	Describe person's experience in performing services like those that are to be assigned:	<p>Mr. Kugler has extensive planning experience that encompass a wide array of planning projects, which includes direct management, oversight, negotiations, leading public meetings and City Council presentations relative to transportation corridor studies and master plans, General Plans, floodplain mitigation, riparian edge design guidelines and rules of development, design concept reports, master planned communities, drafting of General Plans, Specific Area Plans, zoning ordinances, subdivision code updates, land entitlement negotiations and conflict resolution, lead negotiator for sensitive public projects, development agreement negotiations, transportation planning, economic impact studies, watercourse master planning, hillside development guidelines, regional center and commercial site planning, public meeting facilitation, residential subdivision platting, and design guidelines.</p> <p>His Tribal work experiences include five Arizona Tribes having worked particularly close with the White Mountain Apaches and Navajo Nation in establishing the first public transit system in the White Mountain and with the Yavapai-Apache Tribe along with the Town of Camp Verde in a needs assessment and development of a conceptual park master plan.</p> <p>His work experience includes 12 years with the Cities of Phoenix, Show Low and Goodyear, Arizona. Mr. Kugler has planned thousands of acres of residential master planned communities, commercial centers, and business parks while managing a Planning Department in one of Arizona's fastest growing cities.</p>		
	List person's job-related training and education:	<p>M.E.P., 2003, Urban and Regional Planning, Arizona State University          B.S., 1990, Business Administration, Arizona State University          American Institute of Certified Planners, Arizona, 1997, 12996          AICP - Annual Continuing Education Credits</p>		
	<b>Resume:</b>	<b><a href="#">Attachment 3-B Key Personnel Form Supplement Resumes.pdf</a></b>		



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<b>6</b>	<b>Name:</b>	<b>Michael LoTempio, PE, LEED AP BD+C</b>	How long with company?	<b>4 years</b>
	Current position in company:	<b>Project Manager</b>	How long in position?	<b>4 years</b>
	Position for the Services:	<b>Site Development Manager</b>	How much of time will be dedicated to the Services?	<b>50%</b>
	What primary functions will be assigned?	<b>Design, design supervision, overseeing project design, project management and oversight</b>		
	Describe person's experience in performing services like those that are to be assigned:	<p>Mr. LoTempio is a registered professional engineer in the state of Arizona, North Dakota, and New York with a technical background in general civil engineering, land development, infrastructure and construction administration / inspection. For the past 18 years, Mr. LoTempio has been responsible for planning, design and project management of numerous land development, and infrastructure projects. Expertise includes site and roadway layout, site grading and storm drainage design, erosion control/storm water pollution prevention plans, sanitary sewer master planning and network design and water distribution master planning and network design.</p> <p>Professional experience encompasses design and project management on a wide range of civil engineering projects. Experience includes development feasibility and cost analysis studies, preliminary feasibility design, land use entitlements and zoning, construction drawing and document preparation, contractor tendering and construction administration/onsite civil engineering services, project scheduling as well as overseeing and reporting of job progress, and preparing construction cost estimates. Various representative projects are listed below.</p>		
	List person's job-related training and education:	<p>B.S., 1996, Civil Engineering, The State University of New York at Buffalo          LEED Accredited Professional BD+C, 10356526          Professional Engineer: Arizona – 43727; North Dakota - PE-8755; New York - 082986</p>		
	<b>Resume:</b>	<b><a href="#">Attachment 3-B Key Personnel Form Supplement Resumes.pdf</a></b>		



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<b>7</b>	<b>Name:</b>	<b>Todd Williams</b>	How long with company?	<b>4 years</b>
	Current position in company:	<b>Environmental Services Director</b>	How long in position?	<b>4 years</b>
	Position for the Services:	<b>Water Quality / Stormwater Management/Technical Manager</b>	How much of time will be dedicated to the Services?	<b>50%</b>
	What primary functions will be assigned?	<b>Identifying environmental concerns, water quality, stormwater management</b>		
	Describe person's experience in performing services like those that are to be assigned:	<p>Mr. Williams is a program manager with many years of experience leading a wide range of environmental projects, most recently focusing on stormwater management and water quality. He has extensive knowledge in developing and implementing National Pollutant Discharge Elimination System (NPDES) programs on the federal, state, and county levels.</p>		
	List person's job-related training and education:	<p>MSc, 1993, Biology, University of Waterloo          BSc, 1989, Biology, University of Toronto          NHI NEPA and Transportation Decision Making, 2008</p>		
	<b>Resume:</b>	<b><a href="#">Attachment 3-B Key Personnel Form Supplement Resumes.pdf</a></b>		



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<b>8</b>	<b>Name:</b>	<b>Geoffrey Brownell, PE, CFM</b>	How long with company?	<b>9 years</b>
	Current position in company:	<b>Water Resources Department Manager/Technical Manager</b>	How long in position?	<b>5 years</b>
	Position for the Services:	<b>Hydrology / Hydraulics</b>	How much of time will be dedicated to the Services?	<b>50%</b>
	What primary functions will be assigned?	<b>Water resources, hydrology, hydraulics, floodplain, qa/qc</b>		
	Describe person's experience in performing services like those that are to be assigned:	<p>Mr. Brownell has experience as a water resources engineer with extensive knowledge of hydrology, hydraulics, floodplain analysis, roadway drainage design, stormwater best management practices (BMP), and fluvial geomorphology. He has a broad range of experience developing hydrologic and hydraulic models for river systems, local and regional watersheds, and urban development. In addition, Mr. Brownell has completed several drainage master plans, designed large storm drain systems, and developed numerous SWPPPs as part of the NPDES program. Mr. Brownell also has extensive experience preparing and reviewing letters of map change (LOMC) submittals, both as a contractor for local cooperating technical partners (CTP) and as a technical study partner for FEMA. Mr. Brownell has managed projects of similar size and scope in Nevada and Arizona and has been active in the floodplain management community in both states.</p>		



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<p>List person's job-related training and education:</p>	<p>B.S., 1999, Geological Engineering, New Mexico State University          Professional Engineer – Civil: Arizona – 42317; Nevada – 020306          Flo-2D Modeling Workshop, January 2010          Stream Restoration Design Course, December 2009          Erosion Control Workshop, November 2009          Leadership in Engineering Administration Program, January-July 2007          Advanced HEC-1 Modeling Short Course, 2006          404, Clean Water Act and Section 106 Consultants Workshop, 2004          HEC-RAS Unsteady Flow Module, 2004          WMS Floodplain Mapping, 2003          Floodplain Issues in Transportation Design, 2003          Project Management 2 Seminar, 2003          Marketing Training, 2002          Project Management 1 Seminar, 2002          Advanced HEC-RAS Modeling, 2002          WMS Hydrologic Modeling, 2001          ASCE Storm Water Management, 2001          Geomorphology for Floodplain Managers, 2000          RiverCAD Software Training, 2000</p>
<p><b>Resume:</b></p>	<p><a href="#">Attachment 3-B Key Personnel Form Supplement Resumes.pdf</a></p>

**ATTACHMENT 3-B SUPPLEMENTS:**

(For submission of additional Key Personnel qualifications beyond the number of forms provided in the Offer Documents: Offeror shall copy the Key Personnel Form in its entirety and complete in a separate Word Document for submission with the offer, and list file name below or type "None" on first line if not applicable. Offeror shall title Supplement(s) with the same title as named herein and upload with offer.)

	Title	Document Date	No. of pages	Purpose in Offer
1.	<a href="#">Attachment 3-B Key Personnel Form Supplement.pdf</a>	1/8/18	11	Additional Key Personnel Supplement
2.	<a href="#">Attachment 3-B Key Personnel Form Supplement Resumes.pdf</a>	1/8/18	38	Key Personnel Resumes

**(NOTE: The Offeror may insert additional rows as required).**

**End of Attachment 3-B**

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Attachment 3-C  
**Proposed Subcontractors**

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Check "NO" if you WILL NOT subcontract any portion of the Work and will therefore be carrying out all of the Work with your own personnel.

NO, the Offeror will not subcontract any portion of the Work.

If you WILL subcontract any portion of the Work, check "YES" below and list name of persons or companies you propose to use as subconsultants.

1. Fill in the information in the chart below for every proposed subcontractor – indicate the role and services work the subconsultant may provide in performing any of the services as outlined in the Requirements Document in the solicitation.
2. Offeror shall complete an Attachment 3-B Key Personnel Form in its entirety for each proposed subcontractor and submit with offer. The term "Subconsultant" shall be annotated in parenthesis after each subcontractor key personnel name typed in the "Name" section of the 3-B form.
3. State may demand additional information about proposed subcontractors as a precondition of award.

YES, the Offeror will use the Subcontractors listed below:

	Subcontractor Key Personnel Name; Subcontractor Firm Name and Contact Information	List Proposed Subcontractor Role(s) and Services	Capacity % Dedicated to Perform the Proposed Role/Service For Any Project Under This Contract
1.	Name		
2.	Name		
3.	Name		
4.	Name		
5.	Name		
6.	Name		
7.	Name		
8.	Name		
9.	Name		
10.	Name		



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**ATTACHMENT 3-C SUPPLEMENTS:**

(Offeror to insert as required and list here or type "None" on first line. Offeror shall title any Supplement(s) with the same title as named herein and upload with offer.)

	Title	Document Date	No. of pages	Purpose in Offer
1.	Enter or type "None for Sub #1"	x	x	x
2.	Enter or type "None for Sub #2"	x	x	x
3.	Enter or type "None for Sub #3"	x	x	x
4.	Enter or type "None for Sub #4"	x	x	x
5.	Enter or type "None for Sub #5"	x	x	x
6.	Enter or type "None for Sub #6"	x	x	x
7.	Enter or type "None for Sub #7"	x	x	x
8.	Enter or type "None for Sub #8"	x	x	x
9.	Enter or type "None for Sub #9"	x	x	x
10.	Enter or type "None for Sub #10"	x	x	x

**End of Attachment 3-C**



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Attachment 3-D  
**Performance Guarantee**

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**RESERVED FOR AWARDED DESIGN PROFESSIONAL UPON SERVICE REQUEST**

**End of Attachment 3-D**

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## Attachment 3-E Israel Boycott Form

All materials submitted as part of a response to a solicitation are subject to Arizona public records law and will be disclosed if there is an appropriate public records request at the time of or after the award of the contract. Recently legislation has been enacted to prohibit the state from contracting with companies currently engaged in a boycott of Israel. To ensure compliance with A.R.S. §35-393.01. This form must be completed and returned with the response to the solicitation and any supporting information to assist the State in making its determination of compliance.

As defined by A.R.S. §35-393.01:

1. "Boycott" means engaging in a refusal to deal, terminating business activities or performing other actions that are intended to limit commercial relations with Israel or with persons or entities doing business in Israel or in territories controlled by Israel, if those actions are taken either:
  - (a) In compliance with or adherence to calls for a boycott of Israel other than those boycotts to which 50 United States Code section 4607(c) applies.
  - (b) In a manner that discriminates on the basis of nationality, national origin or religion and that is not based on a valid business reason.
2. "Company" means a sole proprietorship, organization, association, corporation, partnership, joint venture, limited partnership, limited liability partnership, limited liability company or other entity or business association, and includes a wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate.
3. "Direct holdings" means all publicly traded securities of a company that are held directly by the state treasurer or a retirement system in an actively managed account or fund in which the retirement system owns all shares or interests.
4. "Indirect holdings" means all securities of a company that are held in an account or fund, including a mutual fund, that is managed by one or more persons who are not employed by the state treasurer or a retirement system, if the state treasurer or retirement system owns shares or interests either:
  - (a) together with other investors that are not subject to this section.
  - (b) that are held in an index fund.
5. "Public entity" means this State, a political subdivision of this STATE or an agency, board, commission or department of this state or a political subdivision of this state.
6. "Public fund" means the state treasurer or a retirement system.
7. "Restricted companies" means companies that boycott Israel.
8. "Retirement system" means a retirement plan or system that is established by or pursuant to title 38.

**All offerors must select one of the following:**

- My company **does not** participate in, and agrees not to participate in during the term of the contract a boycott of Israel in accordance with A.R.S. §35-393.01. I understand that my entire response will become public record in accordance with A.A.C. R2-7-C317.
- My company **does** participate in a boycott of Israel as defined by A.R.S. §35-393.01. :

By submitting this response, proposer agrees to indemnify and hold the State, its agents and employees, harmless from any claims or causes of action relating to the State's action based upon reliance on the above representations, including the payment of all costs and attorney fees incurred by the State in defending such an action.

Michael Baker International, Inc.  


---


Company Name  
2929 N. Central Avenue, Suite 800 Phoenix Plaza Tower II  


---

Address  
Phoenix, AZ 85012  


---

City State Zip


---

**Signature of Person Authorized to Sign**  
Timothy E. Quillman, P.E.  


---

Printed Name  
Vice President/Office Executive  


---

Title

**End of Attachment 3-E**

PART 4 of the Solicitation Documents:  
Offer Forms (Attachments)

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	<p><b>Request for Qualifications</b> Solicitation No. <b>ADSP018-00007887</b> Description: <b>2018 Professional Services List</b></p>	<p>Arizona Department of Administration <b>State Procurement Office</b> 100 N 15th Ave., Suite 201 Phoenix, AZ 85007</p>
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Attachment 4  
Pricing Sheet

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RESERVED FOR AWARDED DESIGN PROFESSIONAL SERVICE ORDER CONTRACT

End of Attachment 4

	<b>Request for Qualifications</b> Solicitation No. <b>ADSP018-00007887</b> Description: <b>2018 Professional Services List</b>	Arizona Department of Administration <b>State Procurement Office</b> 100 N 15th Ave., Suite 201 Phoenix, AZ 85007
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Attachment 5-A  
**Confidential Information Designation**

All materials submitted as part of a response to a solicitation are subject to Arizona public records law and will be disclosed if there is an appropriate public records request at the time of or after the award of the contract.

Recognizing there may be materials included in a solicitation response that are proprietary or a trade secret, a process is set out in A.A.C. R2-7-103 (copy attached) that will allow qualifying materials to be designated as confidential and excluded from disclosure. For purposes of this process the definition of "trade secret" will be the same as that set out in A.A.C. R2-7-101(52).

Complete this form return it with your Offer along with the appropriate supporting information to assist State in making its determination as to whether any of the materials submitted as part of your Offer should be designated confidential because the material is proprietary or a trade secret and therefore not subject to disclosure.

STATE WILL NOT CONSIDER ANY MATERIAL IN YOUR OFFER "CONFIDENTIAL" UNLESS DESIGNATED ON THIS FORM.

**Check one of the following** – if neither is checked, State will assume that as equivalent to "DOES NOT":

<input checked="" type="radio"/>	This response DOES NOT contain proprietary or trade secret information. I understand that my entire response will become public record in accordance with A.A.C. R2-7-C317.
<input type="checkbox"/>	This response DOES contain trade secret information because it contains information that: <ol style="list-style-type: none"> <li>1. Is a formula, pattern, compilation, program, device, method, technique or process, AND</li> <li>2. Derives independent economic value, actual or potential, from not being generally known to, and not being readily ascertainable by proper means by, other persons who can obtain economic value from its disclosure or use; AND</li> <li>3. Is the subject of efforts by myself or my organization that are reasonable under the circumstances to maintain its secrecy.</li> </ol>

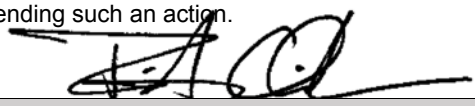
NOTE: Failure to attach an explanation may result in a determination that the information does not meet the statutory trade secret definition. All information that does not meet the definition of trade secret as defined by A.A.C. R2-7-101(52) will become public in accordance with A.A.C. R2-7-C317. State may make its own determination on materials in accordance with A.A.C. R2-7-103.

If State agrees with Offeror's designation of trade secret or confidentiality and the determination is challenged, the undersigned hereby agrees to cooperate and support the defense of the determination with all interested parties, including legal counsel or other necessary assistance.

By submitting this response, Offeror agrees that the entire Offer, including confidential, trade secret and proprietary information may be shared with an evaluation committee and technical advisors during the evaluation process. Offeror agrees to indemnify and hold State, its agents and employees, harmless from any claims or causes of action relating to State's withholding of information based upon reliance on the above representations, including the payment of all costs and attorney fees incurred by State in defending such an action.

**Michael Baker International, Inc.**

Offeror Company Name	Signature of Authorized Person
2929 N. Central Ave., Ste. 800	Timothy E. Quillman, P.E.
Address	Printed Name

  
 Signature of Authorized Person  
 Timothy E. Quillman, P.E.  
 Printed Name

PART 4 of the Solicitation Documents:  
 Offer Forms (Attachments)

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	<p align="center"><b>Request for Qualifications</b> Solicitation No. <b>ADSP018-00007887</b> Description: <b>2018 Professional Services List</b></p>	<p align="right">Arizona Department of Administration <b>State Procurement Office</b> 100 N 15th Ave., Suite 201 Phoenix, AZ 85007</p>
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Phoenix, AZ 85012

Vice President/Office Executive

City	State	Zip
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Title
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**ATTACHMENT 5-A SUPPLEMENTS:**

(Offeror to insert as required and list here or type "None" on first line. Offeror shall title any Supplement(s) with the same title as named herein and upload with offer.)

	Title	Document Date	No. of pages	Purpose in Offer
1.	None			

**End of Attachment 5-A**



**Request for Qualifications**  
Solicitation No.  
**ADSP018-00007887**  
Description:  
**2018 Professional Services List**

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

*Copy of A.A.C. R2-7-103 [Confidential Information]  
as was current at time of Solicitation issuance*

PROVIDED FOR REFERENCE ONLY

- A. *If a person wants to assert that a person's offer, specification, or protest contains a trade secret or other proprietary information, a person shall include with the submission a statement supporting this assertion. A person shall clearly designate any trade secret and other proprietary information, using the term "confidential". Contract terms and conditions, pricing, and information generally available to the public are not considered confidential information under this Section.*
- B. *Until a final determination is made under subsection (C), an agency chief procurement officer shall not disclose information designated as confidential under subsection (A) except to those individuals deemed by an agency chief procurement officer to have a legitimate state interest.*
- C. *Upon receipt of a submission, an agency chief procurement officer shall make one of the following written determinations:*
- 1. The designated information is confidential and the agency chief procurement officer shall not disclose the information except to those individuals deemed by the agency chief procurement officer to have a legitimate state interest;*
  - 2. The designated information is not confidential; or*
  - 3. Additional information is required before a final confidentiality determination can be made.*
- D. *If an agency chief procurement officer determines that information submitted is not confidential, a person who made the submission shall be notified in writing. The notice shall include a time period for requesting a review of the determination by the state procurement administrator.*
- E. *An agency chief procurement officer may release information designated as confidential under subsection (A) if:*
- 1. A request for review is not received by the state procurement administrator within the time period specified in the notice; or*
  - 2. The state procurement administrator, after review, makes a written determination that the designated information is not confidential.*

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	<b>Request for Qualifications</b> Solicitation No. <b>ADSP018-00007887</b> Description: <b>2018 Professional Services List</b>	Arizona Department of Administration <b>State Procurement Office</b> 100 N 15th Ave., Suite 201 Phoenix, AZ 85007
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Attachment 5-B  
**Conformance Statements**

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STATE WILL NOT CONSIDER ANY EXCEPTIONS UNLESS DESIGNATED ON THIS FORM.  
 READ THE INSTRUCTIONS TO OFFERORS BEFORE TAKING ANY EXCEPTIONS – TAKING EXCEPTIONS CAN BE  
 GROUNDS FOR STATE REJECTING YOUR OFFER IN EVALUATION.

---

**CONFORMANCE TO THE INSTRUCTIONS:  
 (PART 1 OF THE SOLICITATION)**

Check one of the following – if neither is checked, State will assume that as equivalent to “YES”:

- YES – Offeror acknowledges that it has read and understands the Solicitation Summary in Section 1-A of the Solicitation Documents and the Instructions to Offerors in Section 1-B of the Solicitation Documents and the and attests that its Offer complies with both.
- NO – Offeror acknowledges that it has read and understands the Solicitation Summary in Section 1-A of the Solicitation Documents and the Instructions to Offerors in Section 1-B of the Solicitation Documents, and attests that its Offer complies with both EXCEPT FOR the exceptions listed in **Attachment 5-B Supplement 1**.

**CONFORMANCE TO THE CONTRACT TERMS AND CONDITIONS:  
 (PART 2 OF THE SOLICITATION)**

Check one of the following – if neither is checked, State will assume that as equivalent to “YES”:

- YES – Offeror acknowledges that it has read and understands the Special Terms and Conditions and the Uniform Terms and Conditions, along with their respective Exhibits and Appendices, in Part 2 of the Solicitation Documents and attests that its Offer complies with both.
- NO – Offeror acknowledges that it has read and understands the Special Terms and Conditions and the Uniform Terms and Conditions, along with their respective Exhibits and Appendices in Part 2 of the Solicitation Documents and attests that its Offer complies with both EXCEPT FOR the exceptions listed in **Attachment 5-B Supplement 2**.

**CONFORMANCE TO THE TECHNICAL DOCUMENTS:  
 (PART 3 OF THE SOLICITATION)**

Check one of the following – if neither is checked, State will assume that as equivalent to “YES”:

- YES – Offeror acknowledges that it has read and understands the Requirements Document and the Compensation Document in Part 3 of the Solicitation Documents and attests that its Offer complies with both.

PART 4 of the Solicitation Documents:  
 Offer Forms (Attachments)

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	<b>Request for Qualifications</b> Solicitation No. <b>ADSP018-00007887</b> Description: <b>2018 Professional Services List</b>	Arizona Department of Administration <b>State Procurement Office</b> 100 N 15th Ave., Suite 201 Phoenix, AZ 85007
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NO – Offeror acknowledges that it has read and understands the [Requirements Document and the Compensation Document](#), in Part 3 of the Solicitation Documents and attests that its Offer complies with both EXCEPT FOR the exceptions listed in **Attachment 5-B Supplement 3**.

**ATTACHMENT 5-B Supplement No. 1:  
 Exceptions to Instructions**

Article / Paragraph or Exhibit Reference	Proposed Changes / Alternate Language	Rationale for Proposed Change
<b>Section 1-A: Solicitation Summary</b>		
<b>x</b>	<b>x</b>	<b>x</b>
<b>x</b>	<b>x</b>	<b>x</b>
<b>x</b>	<b>x</b>	<b>x</b>
<b>Section 1-B: Instructions to Offerors</b>		
<b>x</b>	<b>x</b>	<b>x</b>
<b>x</b>	<b>x</b>	<b>x</b>
<b>x</b>	<b>x</b>	<b>x</b>

**ATTACHMENT 5-B Supplement No. 2:  
 Exceptions to Contract Terms & Conditions**

Article/ Paragraph or Exhibit Reference	Proposed Changes / Alternate Language	Rationale for Proposed Change
<b>Section 2-A: Special Terms &amp; Conditions</b>		
<b>x</b>	<b>x</b>	<b>x</b>
<b>x</b>	<b>x</b>	<b>x</b>
<b>x</b>	<b>x</b>	<b>x</b>



**Request for Qualifications**  
 Solicitation No.  
**ADSP018-00007887**  
 Description:  
**2018 Professional Services List**

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

Article/ Paragraph or Appendix Reference	Proposed Changes / Alternate Language	Rationale for Proposed Change
<b>Section 2-B: Uniform Terms &amp; Conditions</b>		
<b>X</b>	x	x
<b>X</b>	x	x
<b>X</b>	x	x

ATTACHMENT 5-B Supplement No. 3:  
**Exceptions to Technical and Commercial**

Article / Paragraph or Exhibit Reference	Proposed Changes / Alternate Language	Rationale for Proposed Change
<b>Section 2-A Scope of Work (Requirements Document)</b>		
<b>x</b>	x	x
<b>x</b>	x	x
<b>x</b>	x	x
<b>Section 2-B: Compensation Document</b>		
<b>x</b>	x	x
<b>x</b>	x	x
<b>x</b>	x	x

Michael Baker International, Inc.

Company Name

Signature of Person Authorized to Sign

**End of Attachment 5-B**



**Request for Qualifications**  
Solicitation No.  
**ADSP018-00007887**  
Description:  
**2018 Professional Services List**

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

Attachment 5-C  
**Insurance Evidence**

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**RESERVED FOR AWARDED DESIGN PROFESSIONAL UPON SERVICE REQUEST**

**End of Attachment 5-C**

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**Request for Qualifications**  
 Solicitation No.  
**ADSP018-00007887**  
 Description:  
**2018 Professional Services List**

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

Attachment 5-D  
**Offer Checklist**

STATE MAY DETERMINE YOUR PROPOSAL IS NON-RESPONSIVE IF YOU DO NOT SUBMIT ALL ATTACHMENTS.

	DOCUMENT	SUBMITTED
1.	Attachment 1: Offer and Acceptance Form - <b>SIGNED</b>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
2.	Attachment 2-A: Experience and Capacity	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
3.	Attachment 2-A: References	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
4.	Attachment 2-B: Organization Profile	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
5.	Attachment 3-A: Method Proposal – <b>RESERVED FOR AWARD</b>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> <b>no</b>
6.	Attachment 3-B: Key Personnel Proposal	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
7.	Attachment 3-C: Proposed Subcontractors – <b>RESERVED FOR AWARD</b>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> <b>no</b>
8.	Attachment 3-D: Performance Guarantee – <b>RESERVED FOR AWARD</b>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> <b>no</b>
9.	Attachment 3-E: Israel Boycott Form - <b>SIGNED</b>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
10.	Attachment 4: Pricing Sheet – <b>RESERVED FOR AWARD</b>	<input type="checkbox"/> YES, <input checked="" type="checkbox"/> <b>no</b>
11.	Attachment 5-A: Confidential Information Designation - <b>SIGNED</b>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
12.	Attachment 5-B: Conformance Statements - <b>SIGNED</b>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
13.	Attachment 5-C: Insurance Evidence – <b>RESERVED FOR AWARD</b>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> <b>no</b>
14.	Attachment 5-D: Offer Checklist	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
15.	.pdf File: Number of Projects and Revenue	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no
16.	Excel File: 2018 Professional Services List of Firms Services	<input checked="" type="checkbox"/> YES <input type="checkbox"/> no

**End of Attachment 5-D**

**End of Part 4**

PART 4 of the Solicitation Documents:  
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**STATE OF ARIZONA  
BOARD OF TECHNICAL  
REGISTRATION**

**■ Branch Registration ■**

**Name**

**Michael Baker International, Inc.**

**Registration NO.:**

**11037-01**

**Address**

**2929 N Central Avenue  
Suite 800  
Phoenix, AZ 85012**

**EXPIRES:**

**4/14/2019**

**SERVICES OFFERED**

**Architecture**

**Geology**

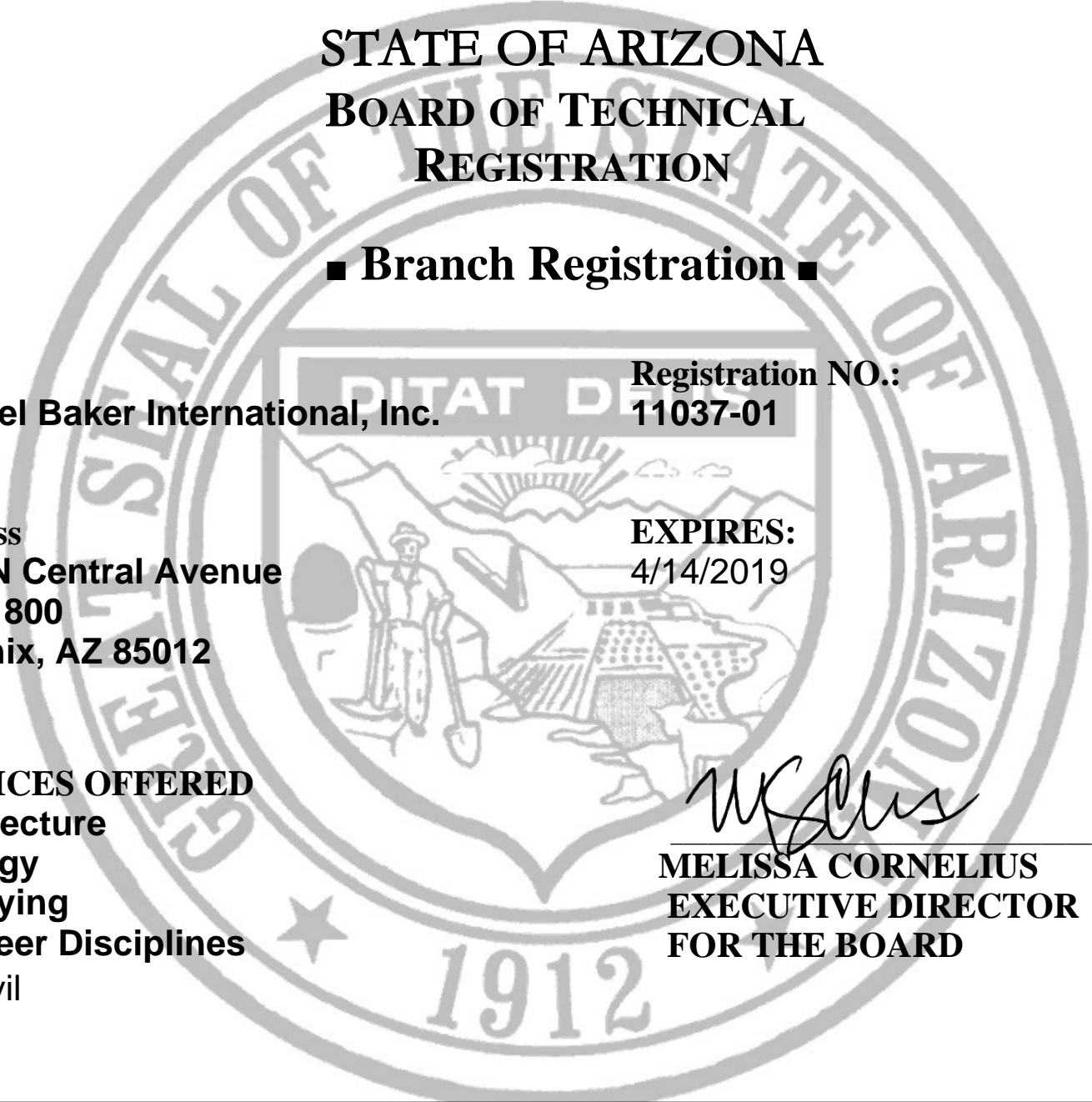
**Surveying**

**Engineer Disciplines**

**Civil**



**MELISSA CORNELIUS  
EXECUTIVE DIRECTOR  
FOR THE BOARD**



**STATE OF ARIZONA  
BOARD OF TECHNICAL  
REGISTRATION**

**■ Firm Registration ■**

**Firm Name**  
**Michael Baker International, Inc.**

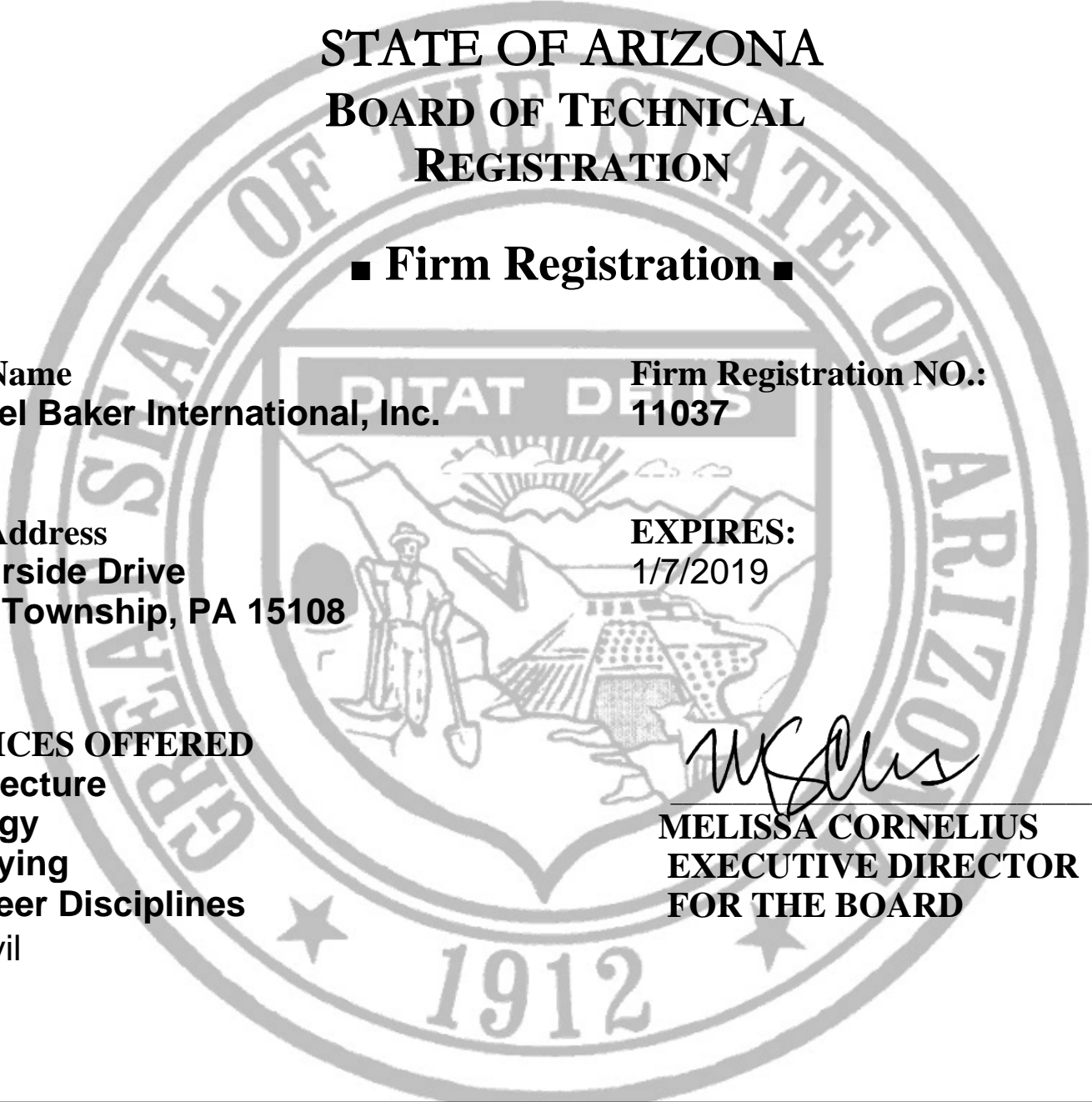
**Firm Registration NO.:**  
**11037**

**Firm Address**  
**100 Airside Drive**  
**Moon Township, PA 15108**

**EXPIRES:**  
**1/7/2019**

**SERVICES OFFERED**  
**Architecture**  
**Geology**  
**Surveying**  
**Engineer Disciplines**  
**Civil**

  
**MELISSA CORNELIUS**  
**EXECUTIVE DIRECTOR**  
**FOR THE BOARD**



# STATE OF ARIZONA



Office of the  
**CORPORATION COMMISSION**

**CERTIFICATE OF GOOD STANDING**

To all to whom these presents shall come, greeting:

I, Ted Vogt, Executive Director of the Arizona Corporation Commission, do hereby certify that

**\*\*\*MICHAEL BAKER INTERNATIONAL, INC.\*\*\***

a foreign corporation organized under the laws of Pennsylvania did obtain authority to transact business in the State of Arizona on the 12th day of September 1985.

I further certify that according to the records of the Arizona Corporation Commission, as of the date set forth hereunder, the said corporation has not had its authority revoked for failure to comply with the provisions of the Arizona Business Corporation Act; and that its most recent Annual Report, subject to the provisions of A.R.S. sections 10-122, 10-123, 10-125 & 10-1622, has been delivered to the Arizona Corporation Commission for filing; and that the said corporation has not filed an Application for Withdrawal as of the date of this certificate.

This certificate relates only to the legal authority of the above named entity as of the date issued. This certificate is not to be construed as an endorsement, recommendation, or notice of approval of the entity's condition or business activities and practices.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the Arizona Corporation Commission. Done at Phoenix, the Capital, this 23rd day of January, 2018, A. D.



A handwritten signature in black ink, appearing to read "Ted Vogt".

Ted Vogt, Executive Director

By: \_\_\_\_\_ 1814236



## Timothy E. Quillman, P.E.

### Office Executive/Vice President

#### General Qualifications

Mr. Quillman is a registered professional engineer in the state of Arizona, California, and Texas with a technical background in civil design along with bridge design and inspection.

For the past ten plus years, Mr. Quillman has gained a broad range of experience working on both multi-discipline Federal contracts, primarily through the United States Army Corps of Engineers, Fort Worth District (USACE) Engineering and Construction Support Office (ECSO) and local municipal project. Over that time span, USACE ECSO has been contracted to provide Department of Homeland Security, Customs and Border Protection (CBP) assistance in improving their tactical infrastructure (TI) for various Border Patrol Sectors (OBP). With USACE ECSO as a client, Mr. Quillman has had the opportunity to provide Engineering and Project Management services for upgrading CBP TI which includes items such as roads, fence/barriers, drainage control, lighting and bridges as well as participating on Project Development Teams that identify and plan future projects. On the municipal side, Mr. Quillman has worked on a variety of projects some of which include the Rio de Flag flood control project, Crismon and Hawes Road gas line extensions and Paseo Visita Recreation Area drainage improvements

In addition to his project work, Mr. Quillman also currently serves as the operations manager for the Infrastructure group within the Michael Baker Phoenix office. As part of his duties, Mr. Quillman oversees operations of general civil engineering design, transportation/traffic engineering, structural engineering, surface water engineering, water resources engineering and environmental compliance inspections. In leading the operations effort, Mr. Quillman has been involved in balancing project requirements with available resources; project reviews; guiding junior staff in the development of construction plans and specifications; implementation and continued use of design and CAD standards for projects; and, quality assurance audits on project administration and quality control completed by department project managers.

#### Experience

**Rio de Flag Flood Control Bridge Design, Flagstaff, Arizona.** *City of Flagstaff, Arizona.* Project Manager. Responsible for coordinating the design internally, with the City of Flagstaff and with the Corps of Engineers. Michael Baker completed two bridge designs and one project assessment required as part of a flood control project. Michael Baker completed calculations and construction plans and specifications for two two-barrel super box-culverts. The required study was completed where the Rio de Flag crossed historic Route 66, and the project assessment was completed for planning the funding for new construction in the future. Additionally, Michael Baker participated in a value engineering (VE) workshop that resulted in the project team reducing the structure crossings from 11 down to two by implementing closed-channel flow at strategic locations within the upper reach.

**Rio de Flag Flood Control and Design Concept Report, Flagstaff, Arizona.** *City of Flagstaff, Arizona.* Operations Manager. Responsibilities include client management, project reviews, quality control, and oversight in coordination with the project manager. Coordination efforts with the PM included providing resources, assessing procedures and performance results, and introduce lessons learned from other similar projects. Michael Baker prepared a design concept report incorporating multiple alternatives for 100-year flood control facilities on the Rio de Flag and Clay Avenue Wash. Michael Baker's services included value

*Years with Michael Baker: 14*  
*Years with Other Firms: 6*

#### *Degrees*

Master's Certificate, 2006,  
Project Management, University  
of Houston, Clear Lake

B.S., 1999, Civil Engineering,  
University of Arizona

#### *Licenses/Certifications*

Professional Engineer – Civil:  
Arizona, 2004, 40857

California, 2005, C68643

Texas, 2006, 97633

engineering, floodplain modeling and mapping, channel design, cost estimating, and construction sequencing.

**Paseo Vista Recreation Area Drainage Improvements, Chandler, Arizona.** *City of Chandler.* Operations Manager. Responsibilities included project reviews, quality control, and oversight in coordination with the project manager. Coordination efforts with the PM included providing and assessing procedures and performance results as well as introducing lessons learned from other similar projects. Michael Baker completed the drainage analysis and report for controlling stormwater run-off throughout the 64-acre Paseo Vista Recreation Area. Michael Baker developed erosion and drainage control construction plans based on the results of the drainage analysis and a drainage control maintenance plan for the City for use in maintaining newly constructed storm control features.

**Paseo Vista Recreation Area Drainage Site Plan, Chandler, Arizona.** *City of Chandler.* Project Manager. Responsible for monitoring project budget and schedule, meeting scope requirements, client and stakeholder coordination, client project review meetings and reviewing deliverables with design staff. These responsibilities were accomplished by meeting with the civil engineer lead on a regular basis to discuss design approach and regular communication with the client. Michael Baker provided engineering services to develop a drainage site plan for the Paseo Vista Recreation Area. Michael Baker's services included the development of interim repair plans, preliminary and final drainage design, and the development of a repair and maintenance plan.

**Reclaimed Water Alignment Study and Conceptual Design, Buckeye, Arizona.** *City of Buckeye.* Operations Manager. Responsibilities included project reviews, quality control, and oversight in coordination with the project manager. Coordination efforts with the PM included providing and assessing procedures and performance results as well as introduce lessons learned from other similar projects. Michael Baker prepared an alignment study and master plan for the City of Buckeye's future effluent system. This project included the identification of potential effluent users, demand projections, evaluation of various alignments for the City's proposed reclaimed water transmission main, hydraulic calculations, water mass balance, and a preliminary design of pump station improvements. This project also included a mass balance study to determine reclaimed water production as compared to future reclaimed demands. In addition, options for recharge and long-term storage credits were evaluated and discussed. This project also included preparing cost estimates for recommended improvements.

**NOGALES Zone 20 (D-5) All-Weather Roadway Design, Nogales, Arizona.** *U.S. Army Corps of Engineers, Fort Worth District.* Operations Manager. Responsibilities included project reviews, quality control and oversight in coordination with the project manager. Coordination efforts with the PM included providing resources, procedures and performance results, and introduce lessons learned from other similar projects within the southwest border program. Michael Baker is providing design services to develop analysis and construction documents for construction of all-weather roadway and 45 low-water crossings beginning five miles west of the Mariposa Land Port of Entry and continuing six miles west through the Coronado National Forest. Michael Baker will provide drainage analysis, geotechnical investigation, conceptual design report, and draft (60 percent) and final (100 percent) construction documents; and will develop the bill of materials package for military deployment.

# Bruce E. Preston, R.A., PMP, DBIA, LEED AP BD+C

## Project Manager

### General Qualifications

Mr. Preston has been practicing project management and architecture in various fields for over a decade. His experience ranges from multi-project management, project program and design document preparation, and construction administration. He has provided services to municipal, state and federal agencies, design/build contractors, developers, and individual clients. He has in-depth experience with the following project types: including federal government Department of Defense, mixed use/retail, telecommunications, assisted living, dormitory and military housing, commercial office buildings, hospitality, transportation, child care, and educational facilities. Mr. Preston is integral to the management team for the design, selection, coordination, and detailing of architectural materials and systems and is involved in developing project specifications. He is skilled in Building Information Modeling (BIM), the latest 3D modeling that uses virtual design for project collaboration from design through construction. Mr. Preston participates in the architectural design process and develops alternative solutions for the client or agency. In addition to providing architectural design and BIM support, he has experience providing on-site observation services throughout the construction process, ensuring that the work is consistent with the construction documents and the architectural design intent. His imminent involvement as a design manager allows him to be able to keep the design on schedule and within budget. As a LEED AP BD+C, he is responsible for the execution of LEED during the design process on several projects as well as being the LEED AP and Coordinator for the project scorecards tracking design credits.

### Experience

**French Creek Bachelor Enlisted Quarters, Marine Corps Base Camp LeJeune, North Carolina.** *Naval Facilities Engineering Command, Mid-Atlantic.* Subject Matter Expert. Subject Matter Expert (SME) for the BIM and Clash Detection coordination process between the design team and construction team, including key subcontractors. Spearheaded this coordination process for the design team throughout design for full integration with the general contractor and key subcontractors. Assisted general contractor on how to implement the clash detection process with their key subcontractors, to coordinate actual 3D trade field models into the design drawings. Also aided in quality assurance and quality control for the interdisciplinary coordination. Michael Baker was the designer of record on a design-build project to construct a 103,334-square-foot combined multistory facility to serve as bachelor enlisted quarters, a 167,450-square-foot three-story 700-vehicle parking garage, a recreation shelter, and a personal equipment cleaning station. The barracks achieved LEED@-NC gold certification. The team's strategic design approach integrated two barracks into a single structure via enclosed connecting corridors on each floor, optimizing common space. Michael Baker's tasks included planning, structural design, and architectural and building systems design.

*Years with Michael Baker: 9*  
*Years with Other Firms: 8*

#### *Degrees*

B.I.S., 2006, Architecture/Fine Arts, Arizona State University

#### *Licenses/Certifications*

Revit Fundamentals Certificate, 2009

Registered Architect, Arizona, 2016, 62802

Revit Fundamentals Certificate, 2011

Revit Architecture Certified Professional, 2009

Revit Architecture Certified Professional, 2011

LEED Green Associate, 2009

Design-Build Professional, 2011

LEED Accredited Professional BD+C, 2011

Project Management Professional (PMP), 2015

**Fuel Cell and Corrosion Control Hangar Design, Cannon Air Force Base, New Mexico.** *U.S. Army Corps of Engineers, Albuquerque District.* Architectural Designer. Provided CAD and architectural design support for the construction documentation of both hangars. Michael Baker provided architectural and engineering design services for two new Special Operations Forces Fuel Cell and Corrosion Control hangars. Michael Baker provided architectural, electrical, structural, and civil design for the facilities and associated site work. Design elements included utilities; storm drainage; plumbing; communications; electrical; heating, ventilation and air conditioning (HVAC); energy management control systems (EMCS); force protection measures; paving; walks; curbs; parking; access roads; exterior lighting; site improvements; grading; and landscaping. The facilities were designed to achieve a Leadership in Energy and Environmental Design (LEED™) Silver Rating.

**Temporary Loading Dock and Housing Design, Nogales, Arizona.** *General Services Administration.* Architectural Designer. Led the design team in coordinating the construction documentation for a temporary truck dock and temporary trailers as well as provided a complete and coordinated set of construction plans delivered on schedule. Also worked directly with the prime contractor to meet construction budget. Michael Baker served as lead designer to provide architecture, structural, civil and electrical design services for a temporary loading dock, and space planning for temporary housing (modular trailers) at the Mariposa Land Port of Entry (LPOE). Michael Baker provided grading design for the dock and adjacent structures; utility design including sanitary, sewer, water, and electrical; structural design for concrete footings, concrete walls, and slab-on-grade concrete; and layout for electrical equipment and fixtures. Michael Baker also produced 100 percent pre-final design and Issue for Construction (IFC) documents for the temporary loading dock.

**Tactical Equipment Maintenance Facility, Fort Hood, Texas.** *U.S. Army Corps of Engineers, Fort Worth District.* Architectural Designer. Led clash coordination of all design and engineering disciplines in direct contact with prime contractor. Also aided in quality assurance and quality control for the interdisciplinary coordination. Michael Baker was the designer of record for the fast-track design-build delivery of a tactical equipment maintenance facility (TEMF) complex, consisting of a 56,601-square-foot TEMF, an 8,400-square-foot organizational storage building, an 1,800-square-foot unmanned aerial vehicle storage facility, and ancillary support structures. The TEMF was designed to meet LEED® Silver certification. Michael Baker's tasks included site and civil engineering; building architecture and facility engineering, including structural, mechanical, plumbing, fire protection, electrical, and telecommunications systems design; and LEED® certification administration.

**Warriors in Transition Barracks Design, Fort Sill, Oklahoma.** *U.S. Army Corps of Engineers, Tulsa District.* Architectural Designer. Assisted in the design effort working directly with the contractor to meet the construction budget. Also coordinated the various design and engineering disciplines to provide a complete and coordinated set of construction plans delivered on schedule. Also, led the BIM coordination for the design team. Michael Baker provided architecture and engineering design for a Warriors in Transition (WT) barracks. The 43,380 -square-foot WT barracks consists of 18 two-bedroom, two-bath apartments and 18 two-bedroom, one-bath apartments for a total of 36 apartment-style living units that can house up to 72 soldiers who have been released from medical facilities and are in recovery status for further evaluation. Michael Baker provided civil, architecture, landscape architecture, interior, electrical, communications, mechanical, plumbing, fire safety, and structural design services. The overall goal was to provide a user-friendly area and a sense of community for WT barracks occupants, instilling in them a sense of pride for their new living quarters, both initially, and for years to come.

**Warriors in Transition Complex, Fort Bliss, Texas.** *U.S. Army Corps of Engineers, Fort Worth District.* Architectural Designer. Facilitated BIM process and assisted in Design and Construction Documents. Michael Baker served as the designer of record for the design-build Warriors in Transition complex. Michael Baker's services included civil, landscape architecture, architectural, interior design, electrical, communications, mechanical, plumbing, fire protection and structural design for the 139,780 square-foot, three-story Warriors in Transition barracks, which can house 232 injured soldiers.

## Pawel Paszczuk, R.A.,

### LEED AP

#### Architect

#### General Qualifications

Mr. Paszczuk is a highly motivated, creative and versatile Project Architect with several years of experience ranging from schematic design to construction administration as well as the management of CAD production teams on projects ranging from 6,000 to over 500,000 square feet. He has a talent for analyzing problems, developing and simplifying procedures, and finding innovative solutions. He also has extensive knowledge of AutoCAD Architecture, Adobe Photoshop and Google SketchUp. Mr. Paszczuk is an energetic self-starter with excellent analytical and organizational skills.

#### Experience

**Yuma Border Patrol Sector Headquarters Command and Control (C2) Renovations, Yuma, Arizona.** *Au Authum Ki, Inc.* Project Architect. Responsible for ensuring the design of the project follows BP requirements and is in compliance with industry codes and guidelines. Additionally, responsible for coordination of other design disciplines to meet the requirements and expectations of other parties involved such as USACE, DHS, OTIA, and others. Michael Baker provided architecture and engineering services for renovation of the Yuma Border Patrol Sector Command and Control (C2) Facility. Michael Baker designed a modular facility in order to ensure undisturbed operations while the C2 facility was renovated. The C2 Center renovation of the existing space to improve the overall functionality, upgrade the communications and electrical services, and refresh the interior environment to benefit the border patrol agents' well-being. Michael Baker provided mechanical, electrical, and telecommunications design.

**Data Center Interior and Security System Improvements, Nationwide.** *CenturyLink.* Architect. Developed construction documents for re-roofing of an existing building. Michael Baker is providing architectural and engineering services for modifications and interior improvements to 15 data centers. Michael Baker's services include architecture and interior design, security system design, and high-level construction cost estimating. Michael Baker is also providing oversight of mechanical, electrical, and plumbing design and construction services by a subconsultant.

**Design-Build Community-Based Outpatient Clinic, Lake Charles, Louisiana.** *SDA, Inc.* Architect. As the project architect Pawel was responsible for developing the building layout in support of the Veteran's Affairs new healthcare approach model called PACT (Patient Aligned Care Team). Duties involved building design and coordination with the VA staff, as well as Construction Documents production. Michael Baker provided architecture and engineering services for a new 32,000-square-foot, design-build, community-based outpatient clinic for military veterans. Michael Baker's services included design management; conceptual, preliminary, and final architectural design; structural design; landscape design; interior design; mechanical, electrical, plumbing, and fire protection engineering; and construction administration and inspection.

**Maricopa County Northwest Justice Center Renovations, Surprise, Arizona.** *Maricopa County Facilities Management Department.* Architect. Provided design and construction administration services for remodel of two conference rooms into small courtrooms. Michael Baker provided design, documentation, and construction administration for the renovation of two existing meeting rooms into Hearing Rooms at the

*Years with Michael Baker: 9*  
*Years with Other Firms: 10*

#### *Degrees*

B.Arch., 2001, Architecture,  
Roger Williams University

#### *Licenses/Certifications*

NCARB, 2008, 107143

LEED Accredited Professional,  
2009

Registered Architect:

Arizona, 2008, 49179

Connecticut, 2008, 11653

Alaska, 2015, AELA14792

Maricopa County Northwest Justice Center. Michael Baker developed floor plans and 3D models; prepared drawings, plans, and specifications; and performed construction administration, observation, and contract administration.

**Maricopa County Two-Year Architectural Service Contract.** *Maricopa County Facilities Management Department.* Architect. Provided design and construction administration services for remodel of two conference rooms into small courtrooms. Michael Baker provided design, documentation, and construction administration for the proposed Maricopa County Project, Solar Thermal Design for Hot Water heating at the 4th Avenue and Lower Buckeye Jail facilities. Michael Baker was the Designer of Record for the contract. Michael Baker and its subconsultants were responsible for providing design services related to architecture, structural, mechanical, and electrical engineering. Due to federal funding, Michael Baker also provided monitoring for Davis-Bacon wage rate compliance during construction.

**National Network Data Center, Chicago, Illinois.** *CenturyLink.* Architectural Designer. Developed construction documents. Upgrades included a security command center, mantrap vestibules, and card reader and biometric systems.

**West 76th Street Public Art Design A/E Design Services.** *Detroit Shoreway Community Development Organization.* Architect. Created construction documents based on the artist's design. Cold Front is a public art project on the site of the West 76th Street Pedestrian Tunnel, an initial phase of the ODOT Lakefront West program. Michael Baker coordinated with LAND Studio and Mark Reigelman, the project artist, to design a structural addition to the existing 100-year old retaining wall at the pedestrian tunnel portal. Cost estimating was a major focus of this project as multiple design iterations were undertaken until a final design was fit to the available budget.

**San Miguel Forward Operating Base (FOB) Command and Control Facility, Cochise County, Arizona.** *Au Authum Ki, Inc.* Architect of Record. Responsible for development of a modular building design and coordination of MEP systems within the limits of modular building transportation. Michael Baker provided architectural and engineering design for the San Miguel Command and Control (C2) facility. The facility is located at the southwest corner of the property just south of the existing dormitory building. The west edge of the proposed modular C2 facility has been aligned with the west edge of the existing dormitory building. Minimal site work was needed, and a 5-foot-wide aggregate walkway was provided from the entrance of the new facility to the existing dormitory walkway. Michael Baker provided designed the modular building to support six workstations, a break room, unisex restroom, NOC/SOC office, a supervisor's office, and a LAN server room.

**Historic District Gateway Arch, Avondale, Arizona.** *City of Avondale, Arizona.* Architect. Responsible for production of construction documents based on preapproved design. Michael Baker recently won a Street Transportation on-call contract with the City of Avondale, located 15 miles to the West of Phoenix. This project is the first task order from that contract, and will involve the design of a gateway arch which clear spans across Western Avenue as it enters the historic district of downtown Avondale. The design will evoke the historic aesthetic of Avondale and will draw upon locally available materials and appropriate vernacular. Also notable is the fact that this project will serve as one of the first examples of cross-practice project delivery for the Phoenix office, involving civil, transportation, planning, structural engineering, and architecture.

## Wayne T. Frank, PMP,

## LEED AP, A.I.A.

### Project Manager

#### General Qualifications

Mr. Frank is an experienced architect with several years experience working with complex and technologically advanced clients such as Kirtland Air Force Base, Sandia National Labs, the Federal Aviation Administration, and many municipalities. He is able work closely with clients, coordinate complicated systems and meet sophisticated design requirements through his experience and communication skills. He has been involved with a varied array of projects such as offices, public and schools, technology labs, museums, and public buildings. Among all of these communication and meeting a client's needs are always his top priority. He is interested in sustainable design and construction and received the LEED Accreditation in 2004. Wayne has won design awards for planning and building design. Wayne is excellent at multi-tasking and delivering an on-time quality project. Wayne has received a Masters in Construction Management and knows how to effectively manage projects. His best qualities are his honesty, integrity, and work dedication. As a Project Architect for Michael Baker International, he will use all of his abilities to successfully execute each project that he is involved with.

#### Experience

**Yuma Border Patrol Sector Headquarters Command and Control (C2) Renovations, Yuma, Arizona.** *Au Authum Ki, Inc.* Project Manager. Responsible for overseeing design and construction document production of the in-house team. Also worked with Design-Build contractor during construction for administrative support. Michael Baker provided architecture and engineering services for renovation of the Yuma Border Patrol Sector Command and Control (C2) Facility. Michael Baker designed a modular facility in order to ensure undisturbed operations while the C2 facility was renovated. The C2 Center renovation of the existing space to improve the overall functionality, upgrade the communications and electrical services, and refresh the interior environment to benefit the border patrol agents' well-being. Michael Baker provided mechanical, electrical, and telecommunications design.

**Design-Build Alternate Mission Equipment Storage Facility, Nellis Air Force Base, Nevada.** *U.S. Army Corps of Engineers, Los Angeles District.* Architect. Responsibilities included construction administration duties such as; submittal review, as-built documentation, redlines, and project closeout. Michael Baker was the designer of record for the design-build, 24,124-gross-square-foot alternate mission equipment storage facilities, which consist of two one-story buildings: the F-35A maintenance and storage facility, Building #449, and legacy storage facility, Building #450. Michael Baker's services included project and design management; architecture; civil, structural, mechanical, electrical, and plumbing engineering; structural interior design; security, life safety, fire protection, and telecommunications design; and construction administration.

**Design-Build F-35A Aircraft Parts Storage Building, Nellis Air Force Base (LSV), Clark County, Nevada.** *Sybrant Construction.* Architect. Responsible for LEED certification process during construction.

*Years with Michael Baker: 3  
Years with Other Firms: 16*

#### *Degrees*

MCM, 2008, Construction Management, University of New Mexico

M.Arch., 2004, Architecture, University of New Mexico

B.Arch., 2002, Architecture, University of New Mexico

#### *Licenses/Certifications*

Project Management Professional (PMP), Worldwide, 2010, 133400

LEED Accredited Professional BD+C, USA and Canada, 2004, 55506

Registered Professional Architect:

Arizona, 2015, 60570

Missouri, 2011, 2011025121

California, 2013, 34530

New Mexico, 2007, 4395

Oklahoma, 2015, 6743

Also provided construction administration services such as; submittal review, as-built documentation, redlines, and project closeout. Michael Baker is providing architectural and engineering design services for a new, 24,994-square-foot, design-build aircraft parts storage building to support the F-35A aircraft. Michael Baker's services include project and design management; architecture; preliminary and final design; civil, structural, mechanical, electrical, and plumbing engineering; structural interior design; life safety, security system, and telecommunications design; energy modeling; sustainable design to achieve Leadership in Energy and Environmental Design Silver certification; and construction administration. Project has achieved LEED Gold Certification.

**Design-Build Upgrade of the Building 913 Hangar, Luke Air Force Base, Maricopa County, Arizona.** *U.S. Army Corps of Engineers, Los Angeles District.* Architect. Responsibilities included submittal review, as-built documentation, redlines, and project closeout. Michael Baker provided architectural and engineering services for the design-build upgrade of the Building 913 hangar to support the maintenance of F-35 aircraft. Michael Baker's services included project and design management; surveying and mapping; architecture; civil, structural, life safety, mechanical, electrical, plumbing, security, and telecommunications engineering; and construction-phase services.

**JMA-Skye Visitor 5.20.2014.** *Ninety Five Management LLC.* Architect. Responsibilities included construction administration duties such as; submittal review, as-built documentation, redlines, and project closeout.

**Las Vegas Central - Main Transmission Facility, Las Vegas, Nevada.** *Cox Communications.* Architect of Record. Responsibilities included being architect of record for re-roofing project. This new facility will provide multi-media delivery to the majority of the Las Vegas Strip, and will be the largest project to date with this repeat client. The design of this data center will be a site adaptation of a prototypical design by Michael Baker, earlier deployed on 2 sites in Arizona. The last site-adapt of this prototypical design was hailed as a complete success by the client.

**Skye Fitness Center.** *Ninety Five Management LLC.* Architect. Responsibilities included construction administration duties such as; submittal review, as-built documentation, redlines, and project closeout.

**San Diego Veterans Administration Medical Center, Fourth Floor Renovation, San Diego, California.** *U.S. Army Corps of Engineers, Los Angeles District.* Architect. Responsibilities included construction administration duties such as; submittal review, as-built documentation, redlines, and project closeout. Under a design-build contract, Michael Baker provided full service architectural and engineering design for the complete renovation and build-out of the fourth floor of the San Diego Veterans Administration Medical Campus. The project involved the creation of a 30-unit community living center that includes patient beds, toilet/shower rooms, and core areas. Core areas include clean and soiled utility areas and nurse stations. Being located in California, the project involved close coordination with State of California Title 24 Building Code and California Office of Statewide Health Planning and Development (OSHPD) requirements.

**Cold Storage Central Kitchen, Las Vegas, Nevada.** *Clark County School District.* Architect. Responsibilities included submittal review, as-built documentation, redlines, and project closeout. JMA Architects, Inc. (d/b/a JMA Architecture Studios), a variable interest entity of Michael Baker International, provided architecture and planning services for a 34,040-square-foot bakery and a 5,490-square-foot office addition to an existing freezer and dry storage building. The proposed work also included interior modifications of approximately 5,200 square feet of existing kitchen space and conversion of 10,234 square feet to dry storage space. The project never went into construction due to client changes; however, 100% construction documents were produced.



## Kevin J. Kugler, AICP

### Technical Manager

#### General Qualifications

Mr. Kugler has extensive planning experience that encompass a wide array of planning projects, which includes direct management, oversight, negotiations, leading public meetings and City Council presentations relative to transportation corridor studies and master plans, General Plans, floodplain mitigation, riparian edge design guidelines and rules of development, design concept reports, master planned communities, drafting of General Plans, Specific Area Plans, zoning ordinances, subdivision code updates, land entitlement negotiations and conflict resolution, lead negotiator for sensitive public projects, development agreement negotiations, transportation planning, economic impact studies, watercourse master planning, hillside development guidelines, regional center and commercial site planning, public meeting facilitation, residential subdivision platting, and design guidelines.

His Tribal work experiences include five Arizona Tribes having worked particularly close with the White Mountain Apaches and Navajo Nation in establishing the first public transit system in the White Mountain and with the Yavapai-Apache Tribe along with the Town of Camp Verde in a needs assessment and development of a conceptual park master plan.

His work experience includes 12 years with the Cities of Phoenix, Show Low and Goodyear, Arizona. Mr. Kugler has planned thousands of acres of residential master planned communities, commercial centers, and business parks while managing a Planning Department in one of Arizona's fastest growing cities.

#### Experience

**Drainage Ordinance, Pinal County, Arizona.** *Pinal County Public Works Department.* Project Manager. Project Director. Responsible for the overall project management, stakeholder and public engagement and technical compilation of an updated Drainage Ordinance for Pinal County. Michael Baker is collaborating with Pinal County Flood Control District staff to update its antiquated ordinance with modern terminology, administrative processes and enforcement actions. The project includes introducing a new drainage waiver provision, establishing a Drainage Review board for the first time and coordinating extensive stakeholder and public engagement to gain consensus on updated ordinance provisions over a broad geography with multiple users and interested parties.

**General Plan Update, Surprise, Arizona.** *Surprise, City of.* Principal-In-Charge. Responsible for project oversight. Michael Baker developed a general plan amendment that updated six key elements of the city's general plan. Michael Baker's services included the update and authoring of the land-use, circulation, housing, economic development, growth areas, and implementation elements; extensive coordination with staff and others in the update of other plan elements; development of geographic information system files; and facilitation of community open houses and workshops.

**Loop 303 Corridor / Land Use Study, Peoria, Arizona.** *Arizona Department of Transportation.* Task Manager. Responsible for overseeing the land use planning and parks/open spaces programming for the study area. Michael Baker completed a study to set specific land use and connection goals related to the development of the new Loop 303 Highway. In addition, the plan set the framework for the first example of revenue sharing in the valley, as Peoria and Phoenix agreed to share revenue related to development in the

*Years with Michael Baker: 14*  
*Years with Other Firms: 11*

#### *Degrees*

M.E.P., 2003, Urban and Regional Planning, Arizona State University

B.S., 1990, Business Administration, Arizona State University

#### *Licenses/Certifications*

American Institute of Certified Planners, Arizona, 1997, 12996

area. The study examined land use economics, absorption, specific locations, and connections across the new Loop 303, and made recommendations that allowed for the orderly development of North Peoria and Phoenix.

**On-Call Public Involvement, Partnering and Outreach Services, Arizona.** *Arizona Department of Transportation.* Project Manager. Responsible for ADOT and is qualified to lead the preparation of reports and studies relating to transportation planning and analysis, traffic and transportation data analysis, transportation and sustainability, bicycle and pedestrian planning and air quality for various ADOT projects. Currently or has served as the PM for four ADOT studies. Michael Baker provided on-demand public involvement and outreach services for the Arizona Department of Transportation in two categories. In the first category, Michael Baker's community planners provided public involvement opportunities and meeting facilitation for construction projects and in support of legally defensible National Environmental Policy Act (NEPA) documents. In the second category, Michael Baker provided visual communication services, public relations, advertising, outreach and public involvement training, and surveys designed to foster a spirit of trust, confidence, and openness. Michael Baker also provide media relations, video production, web-based activities, and translation services.

**Rio Rico Walk and Bike Study, Santa Cruz County, Arizona.** *Arizona Department of Transportation.* Project Manager. Responsible for project management. Michael Baker conducted a study to identify improvements to pedestrian and bicycle facilities to improve accessibility, safety, connectivity, and comfort. Michael Baker's services included planning, public and stakeholder outreach, a gap analysis, design guidelines development, and funding source identification.

**I-15 Virgin River Bridges Public Involvement, Arizona Strip, Arizona.** *Arizona Department of Transportation.* Project Manager. Responsible for all aspects of the public and stakeholder engagement for this project. Michael Baker provided public involvement, agency coordination, and National Environmental Policy Act outreach and documentation for the rehabilitation of the I-15 Virgin River Bridges. Michael Baker led a variety of public involvement and outreach tasks, including the preparation, distribution, and documentation of press releases; project newsletters; social media messaging; agency coordination; and media coordination. This project included the broad dissemination, receipt, and comment aggregation of more than 44,000 project newsletters. Michael Baker also served as the point of contact and comment repository for multiple project partners, government agencies, social media messaging, and elected official briefings.

**Adopt-a-Highway Best Practices, Arizona.** *Arizona Department of Transportation.* Project Manager. Responsible for project management. Michael Baker provided extensive analysis of the current Adopt-a-Highway program, nationwide benchmarking, and best practices assessment of various program elements. The project included an extensive electronic and phone survey of all 50 states to ascertain the organizational, operational, volunteer, safety, and liability components of the program and compare them to the existing program characteristics. The process also included one-on-one phone interviews with select client employees to gain their perspectives on what aspects of the program function well and identify areas for improvement. The final report identified shortcomings of the existing program, highlighted best practices of others, and provided a series of recommendations and implementation measures to enhance the current program.

**Broadway/Rural Drainage Master Plan and Flood Mitigation Alternatives, Tempe, Arizona.** *The Flood Control District of Maricopa County (FCDMC).* Project Manager. Responsible for project management. Michael Baker provided public outreach and involvement support by developing and illustrating various flood mitigation alternatives for three candidate mitigation areas. Michael Baker conveyed FLO-2D modeling results in a graphic and presentation-friendly manner for public consumption and to solicit input from thousands of area property owners.

# Michael E. LoTempio, P.E., LEED AP BD+C

## Project Manager

### General Qualifications

Mr. LoTempio is a registered professional engineer in the state of Arizona, North Dakota, and New York with a technical background in general civil engineering, land development, infrastructure and construction administration/inspection. For the past 18 years, Mr. LoTempio has been responsible for planning, design and project management of numerous land development, and infrastructure projects. Expertise includes site and roadway layout, site grading and storm drainage design, erosion control/storm water pollution prevention plans, sanitary sewer master planning and network design and water distribution master planning and network design.

Professional experience encompasses design and project management on a wide range of civil engineering projects. Experience includes development feasibility and cost analysis studies, preliminary feasibility design, land use entitlements and zoning, construction drawing and document preparation, contractor tendering and construction administration/onsite civil engineering services, project scheduling as well as overseeing and reporting of job progress, and preparing construction cost estimates. Various representative projects are listed below.

### Experience

**Paseo Vista Recreation Area Drainage Site Plan, Chandler, Arizona.** *City of Chandler.* Senior Civil Engineer. Lead Civil Engineer responsible for preparation and oversight of design and drawing production for drainage repairs. Also prepared costs estimates, bid schedules, specifications and bid documents. Michael Baker provided engineering services to develop a drainage site plan for the Paseo Vista Recreation Area. Michael Baker's services included the development of interim repair plans, preliminary and final drainage design, and the development of a repair and maintenance plan.

**Austin Ranch Planned Area Development, Surprise, Arizona.** *Courtland Homes, Inc.* Project Manager. Responsible for overseeing design of project, coordination with client, approval entities and other stakeholders. Also responsible for ensuring the highest level of deliverable quality while meeting the project budget and schedule. Michael Baker provided engineering services for the Austin Ranch East and Austin Ranch North planned area development, located at the corner of Deer Valley Road and Grand Avenue. The 850-acre community includes a mixture of single-family residential densities, neighborhood shopping centers, pocket parks, city park, elementary school site, natural open spaces, improved common open spaces, trails, and a remote waste water treatment plant. Michael Baker provided preliminary and final plats; infrastructure, subdivision, and drainage plans; master wastewater reports; and stormwater pollution prevention and water management plans. Michael Baker also prepared a conditional letter of map revision (CLOMR) for floodplain modification to be provided to the Federal Emergency Management Agency (FEMA).

**Design-Build Upgrade of the Building 913 Hangar, Luke Air Force Base, Maricopa County, Arizona.** *U.S. Army Corps of Engineers, Los Angeles District.* Senior Civil Engineer. Civil Discipline lead responsible for management and execution of site/civil design for the project. Specific tasks included site layout, site grading and drainage design, water and sewer utility layout and design and preparation the SWPPP. Project deliverables included construction plans, specifications and design reports. Post design responsibilities

*Years with Michael Baker: 4*  
*Years with Other Firms: 19*

### *Degrees*

B.S., 1996, Civil Engineering,  
The State University of New  
York at Buffalo

### *Licenses/Certifications*

Professional Engineer:

Arizona, 43727

North Dakota, 2013, PE-8755

New York, 082986

LEED Accredited Professional  
BD+C, 10356526

included contractor submittal review and RFI response. Michael Baker provided architectural and engineering services for the design-build upgrade of the Building 913 hangar to support the maintenance of F-35 aircraft. Michael Baker's services included project and design management; surveying and mapping; architecture; civil, structural, life safety, mechanical, electrical, plumbing, security, and telecommunications engineering; and construction-phase services.

**Hawes Road Gas Line Extension, Mesa, Arizona.** *City of Mesa, Arizona.* Senior Civil Engineer. Responsible for preparation and oversight of design and drawing production. Also coordinated with client and utility companies throughout the design process to address design comments and utility conflicts. Michael Baker provided engineering services for a proposed gas regulator station and 4-inch high-pressure gas line extension of approximately 2,700 feet along Hawes Road from Hermosa Vista Drive to McKellips Road. Michael Baker's services included project management, surveying and mapping, utility potholing, and preliminary and final design.

**Facility Improvement Surveying and Mapping, Maricopa, Arizona.** *CenturyLink.* Senior Civil Engineer. Civil Discipline lead responsible for management and execution of site/civil design for the project. Specific tasks included site layout as well as site grading and drainage design. Project deliverables included construction plans, specifications and design reports. Michael Baker provided surveying services for improvements to the facility located at 45030 West Edwards Avenue. Michael Baker's services included land title surveying, topographic surveying, digital terrain modeling, and base mapping.

**Morningstar at Arrowhead Senior Living, Glendale, Arizona.** *MC-RCS Arrowhead LLC.* Project Manager. Responsible for the site/civil design of a 67,000 square foot assisted and memory care facility located on 75th Avenue in the City of Glendale, Arizona. Michael Baker provide site/civil design for a 67,000-square-foot assisted and memory care facility located on 75th Avenue. The five-acre development consists of one three-story building and one single-story building as well as necessary parking, open space, and drives. Offsite improvements included street lighting, signage, and pavement striping. Civil work included site design and layout; site grading and design of accessible pathways around the site; and utility infrastructure, including sewer, domestic water, and fire water. A comprehensive stormwater management system was also designed, including a stormwater pollution protection plan (SWPPP). Post design services included periodic site observation inspections, submittal review, contractor RFI responses, and a final punch list.

**Bullard Avenue Low Flow Crossing, Goodyear, Arizona.** *City of Goodyear, AZ.* Senior Civil Engineer. Lead engineer responsible for preparation and oversight of design and drawing production. Michael Baker is providing engineering services for the replacement of the Bullard Avenue low flow crossing south of the Riggs Road intersection. Michael Baker's services include field survey and mapping, drainage analysis and design, and development of 90 percent and 100 percent construction plans.

**San Miguel Forward Operating Base (FOB) Command and Control Facility, Cochise County, Arizona.** *Au Authum Ki, Inc.* Senior Civil Engineer. Civil Discipline lead responsible for management and execution of site/civil design for the project. Specific tasks included site layout, site grading and drainage design, water and sewer utility layout and design and preparation the SWPPP. Project deliverables included construction plans, specifications and design reports. Post design responsibilities included contractor submittal review and RFI response. Michael Baker provided architectural and engineering design for the San Miguel Command and Control (C2) facility. The facility is located at the southwest corner of the property just south of the existing dormitory building. The west edge of the proposed modular C2 facility has been aligned with the west edge of the existing dormitory building. Minimal site work was needed, and a 5-foot-wide aggregate walkway was provided from the entrance of the new facility to the existing dormitory walkway. Michael Baker provided designed the modular building to support six workstations, a break room, unisex restroom, NOC/SOC office, a supervisor's office, and a LAN server room.

## Todd G. Williams

### Environmental Services Director

#### General Qualifications

Mr. Williams is a program manager with many years of experience leading a wide range of environmental projects, most recently focusing on stormwater management and water quality. He has extensive knowledge in developing and implementing National Pollutant Discharge Elimination System (NPDES) programs on the federal, state, and county levels.

#### Experience

##### **Milton Road and US 180 Corridor Master Plan Study, Flagstaff,**

**Arizona.** *Arizona Department of Transportation.* Environmental Specialist. Responsible for leading and managing environmental efforts for the Corridor Master Plan. The environmental overview consisted of identifying existing environmental resources and information in the study area by addressing the social, economic, and environmental character of the study area, and to identify any potential environmental concerns, obstacles, or risks within the corridor. This information is used to help with alternatives analysis and development evaluation. Michael Baker is preparing corridor master plans for Milton Road (S.R. 89A/S.R. 40) and U.S. 180 (Humphreys Street) corridors. Michael Baker's services include project management, partnering, data collection and analysis, stakeholder and railroad coordination, public involvement, environmental overview, alternatives analyses, forecasting, conceptual design, cost estimate and funding source development, and report preparation.

**Stormwater Management Master Plan, Chandler, Arizona.** *City of Chandler.* Project Manager. Responsible for the renewal and update to the City of Chandler's stormwater permit. Key tasks include updating the City's Stormwater Management Master Plan, reviewing legal authority, reviewing capital improvement program requirements, recommending modifications to City specifications, providing options for storm drainage system improvements and the development of an inspection and maintenance program for pump stations. Michael Baker assisted the City in complying with the renewed Phase II municipal separate storm sewer system (MS4) permit, including development of a stormwater management program (SWMP). This included identifying changes necessary to meet new requirements, recommendations for modifications to city standards, regulations, drainage, and inspection and maintenance programs.

**Stormwater Program, Salt Lake City, Utah.** *Utah Department of Transportation.* Assistant Project Manager. Responsible for coordinating the development of the Stormwater Pollution Prevention Plans for over 100 maintenance facilities, coordinating comments with UDOT staff, assisting with providing recommendations for the modifications to UDOT's statewide stormwater permit and assisting the Project Manager on an as needed basis. Michael Baker is assisting in updating the client's stormwater program to respond to a U.S. Environmental Protection Agency (USEPA) audit and a new stormwater Utah Pollutant Discharge Elimination System (UPDES) Permit. Michael Baker is generating facility pollution prevention plans (FPPP), developing the client's design guide for treatment best management practices (BMP), reviewing and updating the client's illicit discharge detection and elimination (IDDE) program, developing a wet weather monitoring plan, and developing a training program for maintenance crews to implement the FPPPs.

**Stormwater Program Compliance Assistance, Peoria, Arizona.** *City of Peoria, Arizona.* Project Manager. Responsible for the renewal and update to Peoria's Phase II municipal stormwater permit. Tasks include: Updating the City's Stormwater Management Plan, Locating and verifying existing and new infrastructure as required by the expanded permit area, Review and revise legal authority as necessary,

*Years with Michael Baker: 4*

*Years with Other Firms: 27*

#### *Degrees*

MSc, 1993, Biology, University of Waterloo

BSc, 1989, Biology, University of Toronto

#### *Licenses/Certifications*

NHI NEPA and Transportation Decision Making, 2008

Provide recommendations on resources and partnerships to supplement the City's program and Provide estimates of probable annual costs to comply with the MS4 permit requirements Michael Baker is currently assisting city in complying with the renewed Phase II municipal separate storm sewer system (MS4) permit, including development of a stormwater management program (SWMP). This includes identifying necessary changes to the city's current SWMP to meet the minimum requirements of the renewed MS4 permit, assisting in locating and/or verifying the locations of existing stormwater infrastructure, and identifying potential resources and/or partnerships to complement the city's program.

**Chinle Street Lighting, Chinle, Arizona.** *Arizona Department of Transportation.* Environmental Specialist. Responsible for identifying possible environmental concerns associated with the prescoping process for the Planning Area for Rural Areas (PARA) grant to the Chinle Chapter of the Navajo Nation. Michael Baker assisted the Chinle Chapter of the Navajo Nation with investigating the engineering and environmental requirements of possibly installing solar street lighting and two crosswalks with solar warning lighting along a 1.8-mile section of Navajo Route 7 from its intersection with U.S. 191 to the Navajo Route 27 intersection. The objective was to identify project development and delivery (capital and O&M) tasks and barriers/deficiencies to more accurately develop an accurate construction scope and fee estimate for future funding requests and project construction.

**Stormwater Audit Support and General Stormwater Services, Pinal County, Arizona.** *Pinal County Public Works Department.* Project Manager. Responsible for assisting Pinal County with the audit of their stormwater permit conducted by ADEQ. Services include: providing stormwater audit support, documenting observations of the audit, assisting with the response to the audit, coordinating efforts in response to the audit conclusions and providing general stormwater management services in response to the audit and the new proposed stormwater permit on an on-call basis. Michael Baker is currently assisting Pinal County with an audit of their stormwater permit conducted by the Arizona Department of Environmental Quality (ADEQ). Services include providing stormwater audit support, documenting observations of the audit, assisting with the response to the audit, coordinating efforts in response to the audit conclusions, and providing general stormwater management services in response to the audit and the new proposed stormwater permit on an on-call basis.

**Stormwater Management Program, Goodyear, Arizona.** *City of Goodyear, Arizona.* Project Manager. Responsible for assisting and coordinating efforts for the City of Goodyear Stormwater Program by providing support for their new stormwater permit. Key tasks included reviewing the existing stormwater management program, identifying any potential deficiencies, and providing recommendations on what best management practices needed to be modified or added to meet the requirements of the new permit. Michael Baker is assisting the City of Goodyear by providing support for their new stormwater permit. Key tasks include reviewing the existing stormwater management program, identifying any potential deficiencies and providing recommendations on what Best Management Practices need to be modified or added to meet the requirements of the new permit. Michael Baker assisted in the development of the notice of intent and the drafting of a new stormwater management program plan. Furthermore, Michael Baker is assisting with the development of written plans and standard operating procedures to support the overall stormwater program.

**Stormwater Operations and Maintenance Plan, Nevada.** *Nevada Department of Transportation.* Project Manager. Responsible for reviewing and evaluating NDOT's existing maintenance policies and procedures for compliance with new MS4 permit requirements and to assist the department in modifying existing/developing new policies and procedures to be included in a Stormwater Operations and Maintenance Plan. Responsible for the development of a stormwater operations and maintenance plan to assist the Department in complying with their stormwater consent decree and stormwater permit. Michael Baker assisted in the development of a stormwater operations and maintenance plan (SWOMP) to assist with compliance related to a U.S. Environmental Protection Agency (USEPA) audit and a new anticipated Municipal Separate Storm Sewer Systems (MS4) stormwater permit. Michael Baker assisted the Department in identifying opportunities for improvement, including cost saving measures and innovative approaches.

# Geoffrey S. Brownell, P.E., CFM

## Water Resources Department Manager

### General Qualifications

Mr. Brownell has experience as a water resources engineer with extensive knowledge of hydrology, hydraulics, floodplain analysis, roadway drainage design, stormwater best management practices (BMP), and fluvial geomorphology. He has a broad range of experience developing hydrologic and hydraulic models for river systems, local and regional watersheds, and urban development. In addition, Mr. Brownell has completed several drainage master plans, designed large storm drain systems, and developed numerous SWPPPs as part of the NPDES program. Mr. Brownell also has extensive experience preparing and reviewing letters of map change (LOMC) submittals, both as a contractor for local cooperating technical partners (CTP) and as a technical study partner for FEMA. Mr. Brownell has managed projects of similar size and scope in Nevada and Arizona and has been active in the floodplain management community in both states.

### Experience

**Rio de Flag Flood Control and Design Concept Report, Flagstaff, Arizona.** *City of Flagstaff, Arizona.* Project Manager. Managed DCR to determine cost of building a flood control project for the Rio de Flag River in Flagstaff, AZ. Michael Baker prepared a design concept report incorporating multiple alternatives for 100-year flood control facilities on the Rio de Flag and Clay Avenue Wash. Michael Baker's services included value engineering, floodplain modeling and mapping, channel design, cost estimating, and construction sequencing.

**Paseo Vista Recreation Area Drainage Site Plan, Chandler, Arizona.** *City of Chandler.* QA/QC. Provided QA/QC oversight to drainage design. Michael Baker provided engineering services to develop a drainage site plan for the Paseo Vista Recreation Area. Michael Baker's services included the development of interim repair plans, preliminary and final drainage design, and the development of a repair and maintenance plan.

**Citywide 100-Year Flood Risk Assessment, Phoenix, Arizona.** *Federal Emergency Management Agency (FEMA).* Program Manager. Managed the Pit River PAL project (Modoc, California) and the Apache Junction RiskMAP project. Michael Baker is performing an enhanced 100-year flood risk analysis for the city. Michael Baker's services include data collection and analysis, risk modeling, geographic information system analysis, and mapping and graphics development.

**Golden Valley Zone A Study, Phases 1 & 2, Mohave County, Arizona.** *Mohave County Flood Control District.* Project Manager. Managed a large Zone A floodplain study in Golden Valley, Mohave County, AZ. The study was submitted to FEMA for incorporation into the Mohave County DFIRM. Michael Baker completed a large Zone A floodplain re-delineation study in the Golden Valley area. The overall watershed in this area is 470 square miles, and 432 square miles were provided with detailed depth and velocity data to help manage flood risk. The study also resulted in hundreds of miles of updated Zone A delineation to be submitted to FEMA for incorporation into the County DFIRM.

**Apache Junction Flood Risk Project, Apache Junction, Arizona.** *FEMA.* Project Manager. Managed the Pit River PAL project (Modoc, California) and the Apache Junction RiskMAP project. Michael Baker prepared a flood risk report and flood risk map to help define flooding risks in the communities. As part of

*Years with Michael Baker: 9  
Years with Other Firms: 10*

### *Degrees*

B.S., 1999, Geological Engineering, New Mexico State University

### *Licenses/Certifications*

Professional Engineer – Civil:  
Arizona, 2005, 42317

Nevada, 2009, 020306

these efforts, a working group and planning group were formed to help inform the process. The working group consisted of city staff directly affected by the plan, while the planning group was made up of various community stakeholders. The result was a comprehensive plan that detailed next steps for the city to mitigate its flooding risks.

**ASAP Pipeline Waterways Work Plan, North Slope to South Central, Alaska.** *Alaska Gasline Development Corporation (AGDC).* Technical Advisor. Performed technical oversight during the preparation of project waterways documents and led field assessment of stream crossings for access roads. Michael Baker defined procedures for stream crossing classifications using best available data, revised crossing classifications, and established procedures for pipeline and access road design at stream crossings, including scour depth determination, channel migration assessment, mitigative action, and construction mode determination.

**Mohave County DFIRM Outreach, Mohave County, Arizona.** *Mohave County Flood Control District.* Project Manager. Managed public outreach in support of new FEMA DFIRM maps for three areas in Mohave County. Michael Baker managed public outreach in support of new Federal Emergency Management Agency (FEMA) Digital Flood Insurance Rate Maps (DFIRM) for three areas in Mohave County. Public meetings were conducted in several strategic locations and during different phases in the map adoption process. Michael Baker's team spearheaded meeting organization and the preparation of meeting material to help inform the public of the pending map changes.

**Floodplain Management and Hazard Mitigation Planning Services, Statewide, Missouri.** *Missouri Emergency Management Agency.* Department Manager. Provided QA/QC oversight for Zone A floodplain delineation and additional project coordination. Michael Baker is providing a wide range of professional consulting services for floodplain management, hazard mitigation planning, and emergency management. Michael Baker's services include project management, floodplain studies, topographic surveys and mapping, floodplain mapping, development of flood insurance rate maps, hazard mitigation planning, grant administration support, floodplain construction permit reviews, website development, staff training, agency coordination, stakeholder coordination, and community outreach.

**Downtown Tempe FLO-2D Analysis, Tempe, Arizona.** *City of Tempe, Arizona.* Department Manager. Provided QA/QC oversight for 2D hydraulic analyses. Michael Baker developed a FLO-2D model integrated with EPA-SWMM to provide a platform for determining flood depths; indicating existing flooding potential; and aiding with review for new development, light rail completion, and Arizona State University expansion within downtown Tempe. The analysis provided key flood depth information for the city's review and the model serves as a starting point to evaluate the existing flooding potential; establishes a framework for future studies, analyses, and enhancements; and serves as a tool for evaluating future development within the ARCA.

**Design of Loop 303, Lake Pleasant Parkway to I-17, Peoria, Arizona.** *Arizona Department of Transportation.* Water Resources Engineer. Completed Letter of Map Revision application for submittal to FEMA. Michael Baker completed the first of many projects to design Loop 303: a brand new interim four-lane divided expressway constructed from Lake Pleasant Parkway to I-17. This project includes the final design and preparation of construction plans, specifications and estimate (PS&E) for constructing the interim SR 303L from Lake Pleasant Parkway to I-17. This design will also accommodate the future freeway to freeway connection to SR74, service interchanges to local streets as well as the SR 303L/I-17 system interchange.



## Alejandro Riano, P.E., CFM

### Civil Engineer

#### General Qualifications

Mr. Riano is a water resources engineer with several years of experience in hydrologic and hydraulic modeling, heavy civil engineering work, personnel training and software testing. He has extensive experience in Area Drainage Master Plans, dam breach modeling, and application of the frequency analysis techniques. Mr. Riano is committed to serve the engineering community by actively participating in local engineering associated organizations to educate and improve the skills in engineering and develop water resources infrastructure, policy and management through the application of state of the art modeling, and cost effective management approaches.

#### Experience

**Douglas/Agua Prieta Flood Hazard Mitigation Study, Douglas, Arizona and Agua Prieta, Mexico.** *Border Environment Cooperation Commission.* Water Resources Engineer. Performed data collection, research, and technical guidance.

**Golden Valley Zone A Study, Phases 1 & 2, Mohave County, Arizona.** *Mohave County Flood Control District.* Technical Lead. Provided guidance and management of the development of the H&H analyses. The H&H analyses provide the ground work to perform risk assessment to include floodplain mapping and non-regulatory flood risk products that mitigate the impact the flood hazards to life and property. The analyses consist of an integrated hydrology and hydraulics 2D that models extending through an area of about 470 square miles with a proposed floodplain delineation of 272 linear miles of FEMA Zone A washes. The resulting multi-frequency depths and velocity maps are an improved and more detail product that would benefit current residents and help regulate future development. Michael Baker completed a large Zone A floodplain re-delineation study in the Golden Valley area. The overall watershed in this area is 470 square miles, and 432 square miles were provided with detailed depth and velocity data to help manage flood risk. The study also resulted in hundreds of miles of updated Zone A delineation to be submitted to FEMA for incorporation into the County DFIRM.

**Naco Fence Replacement, Naco, Arizona.** *U.S. Army Corps of Engineers, Fort Worth District.* Civil Engineer. Responsible for performing the hydrology task and hydraulic modeling oversight for the low water crossings in the design-build of 14 linear miles of fence along the international border. Assembled the drainage report that included the hydrologic analysis using the TR-55 modeling approach for a watershed, the hydraulic analysis that modeled the impacts of the fence along 23 low water crossings using HEC-RAS 5.0. The report also included scour and riprap design and analysis for each crossing.

#### Non-Michael Baker Project Experience

**Peralta Canyon, Pueblo Cochiti, New Mexico.** *U.S. Army Corps of Engineers.* Modeler. Developed a hydrologic 2-Dimensional model to assess the structural capacity of a levee protecting the town of Cochiti. 2015

*Years with Michael Baker: 2*  
*Years with Other Firms: 14*

#### *Degrees*

M.S., 2013, Civil and Environmental Engineering, Arizona State University

B.S.E., 2008, Civil Engineering, Arizona State University

#### *Licenses/Certifications*

Professional Engineer:

Florida, 2012, 75130

Arizona, 2011, 53023

Certified Floodplain Manager, 2009, US-09-04284

**Northwest El Paso Hydroglogy, El Paso, Texas.** *International Boundary & Water Commission.* Modeler. Developed a hydrologic 2-Dimensional model, simulating design storms ranging from 2 through 500 years, including 43 arroyo hydraulic structures, 3 Rio Grande Bridges, 1-D channels. 2015

**Franklin-Brown-Sudden-Barranca, County of Ventura, California.** *County of Ventura.* Modeler. Developed the FLO-2D model including stormdrains for a multi design storm analysis. 2014.

**Broadway Rural Drainage Master Study, Phoenix Arizona (8 square miles).** *FCDMC.* Technical Lead. Provided technical assistance in the development of the hydrologic and hydraulic analysis to identify flooding prone areas based on design storms. The model performed hydrologic and hydraulic analysis on the 2-dimensional surface and was used to identify flooding prone areas based on design storms. The project is currently in the phase of master planning based on the results of the Master study. Study proceeded from July 2008 through December 2009.

**Hohokam Area Drainage Master Study, Phoenix Arizona (28 square miles).** Technical Lead. Developed a FLO2D model that incorporated simplistic storm drain model that helped identified flooding prone zones. The model also included hydrologic analyses for various design storm durations and return period. This model considered existing and future conditions. The model was verified using spatially distributed rainfall from Gage Adjusted Radar Rainfall. The project is currently under the phase of determining regional solutions based on the FLO2D analyses. 2010-2012

**Gillespie Area Drainage Master Study, Arizona (148 square miles).** *Maricopa County.* Technical Assistance. Performed a frequency analysis on the Rainbow Wash Watershed and compared results with FLO2D model to determine appropriate modeling parameters. The study is currently on its ending phase. 2011-2012.

## Scott A. Nelson, R.L.S.

### Surveyor Manager

#### General Qualifications

Mr. Nelson is a registered land surveyor with several years of project and management experience. As the project manager, he emphasizes client focus at the early stages of a project to fully understand the client's needs in detail and then designs survey solutions tailored for the needs of the project by combining the level of detail required with the appropriate technology to save time and money. His expertise includes ALTA and boundary surveys, R/W surveys, topographic surveys, photogrammetric control and QC surveys, records research, legal descriptions and exhibits, construction surveys and as-built surveys. He has worked on many successful projects similar to those being requested in this solicitation. He is very client oriented and committed to delivering high quality professional services. He is responsible for all aspects of multiple survey projects, including survey field and office work, budgeting, technical services, project coordination and client relationships.

#### Experience

**S.R. 86/Ajo Way-Valencia to Kinney Road.** *Arizona Department of Transportation.* Project Manager. Responsible for Final R/W Plans, a supplemental survey, and R/W Staking for appraisals on a 1.5-mile portion of I-19 for improvements to the Ajo Way interchange. Approximately 20-25 parcels are affected by new right-of-way or easements. Michael Baker initiated a FLO-2D model for hydraulic modeling and design of on-site and offsite storm drain management systems, drainage quantity estimates, drainage structure reports, and scour protection.

**S.R. 86 Valencia Road to Kinney Road Roadway Improvement, Tucson, Pima County, Arizona.** *Arizona Department of Transportation.* Survey Manager. Responsible for providing legal descriptions and exhibits for sewer lines and water lines through state land parcels. Michael Baker provided engineering services for improvements to S.R. 86 from Valencia Road to Kinney Road, including 13 major drainage structures, two bridges, the realignment and reconstruction of local roads, intelligent transportation system, and extensive utility relocation. Michael Baker's services included development of a design memorandum and preliminary and final design.

**TO18 SR303 Camelback-Olive.** *Arizona Department of Transportation.* Project Manager. Responsible for preparing survey. Under ADOT On-Call Contract 2013-003.02, Michael Baker was tasked with the Final R/W Monumentation Survey for the Camelback Road - Olive Avenue segment of State Route 303L (Bob Stump Memorial Parkway) located in the Phoenix metropolitan area. A total of 136 monuments were set in accordance with the current Arizona Boundary Survey Minimum Standards and the current ADOT R/W Plans Section Right of Way Monumentation Procedures & Standards. Upon on completion of setting the monuments, a total of five R/W Staking Plan sheets were prepared in accordance with the current ADOT CADD standards to illustrate the type and kind of monuments set, point number and coordinate information, and station & offset information for all monuments that were set.

**San Miguel Forward Operating Base (FOB) Command and Control Facility, Cochise County, Arizona.** *Au Authum Ki, Inc.* Survey Manager. Prepared a topographic survey for design of a modular building site in the southwest corner of the San Miguel Command and Control (C2) facility. Michael Baker provided architectural and engineering design for the San Miguel Command and Control (C2) facility. The facility is located at the southwest corner of the property just south of the existing dormitory building. The west edge of

*Years with Michael Baker: 5*  
*Years with Other Firms: 28*

#### *Degrees*

B.S.E., 1984, Surveying, Iowa State University

#### *Licenses/Certifications*

Land Surveyor:

Arizona, 1988, 21782

Nevada, 1989, 8553

the proposed modular C2 facility has been aligned with the west edge of the existing dormitory building. Minimal site work was needed, and a 5-foot-wide aggregate walkway was provided from the entrance of the new facility to the existing dormitory walkway. Michael Baker provided designed the modular building to support six workstations, a break room, unisex restroom, NOC/SOC office, a supervisor's office, and a LAN server room.

**Bullard Avenue Low Flow Crossing, Goodyear, Arizona.** *City of Goodyear, AZ.* Survey Manager. Located on Bullard Avenue south of the Riggs Road intersection, prepared construction plans to replace the prior existing roadway culvert crossing with a new low flow culverts crossing in order to maintain drainage conveyance under the roadway. Surveying services for this project included establishment of horizontal and vertical control, a topographic survey for design, utility as-built research and preparation of utility base mapping, construction staking for the project and post-construction as-built survey and certification. Michael Baker is providing engineering services for the replacement of the Bullard Avenue low flow crossing south of the Riggs Road intersection. Michael Baker's services include field survey and mapping, drainage analysis and design, and development of 90 percent and 100 percent construction plans.

**Camino de La Tierra Pump Station Rehabilitation, Tucson, Pima County, Arizona.** *Pima County.* Survey Manager. Responsible for preparing survey. Michael Baker designed 3,400 feet of 8-inch gravity sewer line to bypass the existing La Tierra Lift Station and convey flows to the existing sewer collection system and designed the decommissioning of the existing sewer lift station. The project will reduce Pima County's operation and maintenance costs associated with the existing lift station. Michael Baker also performed a topographic survey and coordinated permitting.

**Traffic Signal and Intersection Improvements, Paradise Valley, Arizona.** *Town of Paradise Valley.* Survey Manager. Responsible for determining existing right-of-way and field survey of topographic features at 11 intersections for traffic signal design. Michael Baker provided engineering services for improvements to the town's 12 signalized intersections. Michael Baker's services included needs assessments; development of signal timing and coordination plans; recommendations for improvements; preparation of final plans, specifications, and estimates for improvements; post-design services; and utility coordination.

**Vekol Wash LiDAR, Maricopa County, Arizona.** *The Flood Control District of Maricopa County (FCDMC).* Project Manager. Responsible for preparing survey. Michael Baker provided surveying services consisting of cross section surveys of Vekol Wash and checkpoint (quality control) surveys of the approximate 49 square miles covering the Vekol Wash LiDAR Floodplain Mapping Project. The roject covered approximately 15,200 acres. A total of 13 cross sections of Vekol Wash at approximately one-mile intervals were surveyed along with checkpoint surveys consisting of approximately one checkpoint per one square mile within the project limits. Survey deliverables included a survey report signed by an Arizona Registered Land Surveyor.

**Grand Avenue Floodplain Mapping, Maricopa County, Arizona.** *The Flood Control District of Maricopa County (FCDMC).* Project Manager. Responsible for preparing survey. Michael Baker provided surveying and photogrammetric services for the production of 1:2400, 2-foot topographical information and major planimetric detail floodplain mapping of the approximate 1,365 acres covering the Peoria Area Delineations: Grand Avenue Aerial Mapping Project. Survey services included the establishment of survey control, aerial ground control, and final survey report. Field surveying established a GPS survey control network, ground control for 15 primary aerial control panels on the project site, and quality control within the project areas for aerial mapping checks. Survey deliverables included panel coordinates submitted to the photogrammetrist and a survey report and certification for the mapping sealed and signed by an Arizona Registered Land Surveyor.

# John G. Matthews, GISP, CFM

## GIS Specialist

### General Qualifications

Mr. Matthews is an experienced geographic information systems (GIS) specialist. He spent one year working on a 3D mapping project for the government of British Columbia, and for more than nine years he performed mapping for the FEMA Flood Mapping program. For five of those years he supported the FEMA Response/Recovery Division Mapping program in the Mapping and Analysis Center (MAC). For three years of his tenure there he was the technical lead in charge of production and training. Mr. Matthews led production/mapping efforts for the terrorist attacks on September 11, the Shuttle Columbia disaster, and Hurricanes Katrina and Rita. Mr. Matthews has also worked for the FEMA Map Modernization Program, supporting the Comprehensive Flood Risk Resources and Response joint venture, which provides updated flood maps to counties affected by tropical Storm Allison. Mr. Matthews has also supported various other GIS projects, including the U.S. Customs and Border Patrol's Primary Fence Construction along the southern border, Fort Huachuca Real Property Master Plan Update, Buckeye FRS Rehabilitation, Canada Del Oro Hydrologic Study, Lackland AFB Preliminary Design Recruit Housing and Training Replacement Program, Maricopa County On-Call Physical Map Revision (PMR), and Alaska Stand Alone Gas pipeline project (ASAP), and the Alaska South Central LNG Project (AKLNG).

### Experience

**Milton Road and US 180 Corridor Master Plan Study, Flagstaff, Arizona.** *Arizona Department of Transportation.* GIS Specialist. Responsible for providing various GIS related roles including database administration, data quality assurance, metadata creation, and data analysis. Michael Baker is preparing corridor master plans for Milton Road (S.R. 89A/S.R. 40) and U.S. 180 (Humphreys Street) corridors. Michael Baker's services include project management, partnering, data collection and analysis, stakeholder and railroad coordination, public involvement, environmental overview, alternatives analyses, forecasting, conceptual design, cost estimate and funding source development, and report preparation.

**Meridian Road Corridor Study, Pinal County, Arizona.** *Arizona Department of Transportation.* GIS Specialist. Responsible for geospatial data management, spatial analysis, and GIS map production. Michael Baker produced the feasibility study report to support the continuing development and growth occurring and anticipated in the East Mesa, West Apache Junction, and within Pinal County. The purpose of the Meridian Road Corridor Study was to document conditions along the existing roadway and to develop alternatives to increase the safety and future level of service (LOS) of Meridian Road. The study also established a roadway footprint and developed the ultimate right-of-way requirement for the corridor. Michael Baker provided traffic analysis, preliminary utility coordination, drainage analysis, and public outreach.

**S.R. 86 Valencia Road to Kinney Road Roadway Improvement, Tucson, Pima County, Arizona.** *Arizona Department of Transportation.* GIS Specialist. Duties included data conversion in and out of CAD and GIS environments and mapping support. Michael Baker provided engineering services for improvements to S.R. 86 from Valencia Road to Kinney Road, including 13 major drainage structures, two bridges, the realignment and reconstruction of local roads, intelligent transportation system, and extensive utility relocation. Michael Baker's services included development of a design memorandum and preliminary and final design.

*Years with Michael Baker: 19*  
*Years with Other Firms: 1*

### *Degrees*

B.A., 1998, Geography, Simon Fraser University

Certificate, 1998, Spatial Information, Simon Fraser University

### *Licenses/Certifications*

Certified Floodplain Manager, 2008, US-08-03393

Certified GIS Professional, 2009, 00060702

**101L HOV Lane Design and Environmental Studies, Maricopa County, Arizona.** *Arizona Department of Transportation.* GIS Specialist. Responsible for drainage report exhibit creation. Michael Baker provided engineering design and environmental documentation services for the incorporation of high occupancy vehicle (HOV) lanes to a 30-mile portion of SR 101L (Loop 101) between I-10 and Tatum Boulevard and three miles of additional general purpose (GP) lanes between 31st and 15th Avenues. Michael Baker prepared initial and final design concept reports for the addition of GP lanes, HOV lanes, and connector ramps; analyzed traffic impacts of the GP lanes; showed bridge lay-outs for the ramp connections; identified potential stormwater drainage issues; and developed alternatives for analysis. In addition, Michael Baker conducted environmental studies per the National Environmental Policy Act (NEPA) to identify impacts from the project, compare alternatives, and address any potential fatal flaws. Throughout the process, Michael Baker facilitated public involvement and agency coordination efforts to build consensus among local communities and affected agencies.

**Civil Engineering for Transportation Enhancement Projects, Various Locations, Arizona.** *Arizona Department of Transportation.* GIS Specialist. Duties included data conversion in and out of CAD and GIS environments, field GPS unit preparation, and mapping support. Michael Baker is providing civil engineering services for a variety of transportation enhancement projects, including pedestrian and shared-use pathways, curbs, gutters, and sidewalks. Michael Baker is preparing Americans with Disability Act-compliant conceptual plans, evaluating locations and materials, developing drainage plans, and providing utility coordination.

**U.S. 290, Manor Expressway Design-Build Services, Travis County, Texas.** *Central Texas Regional Mobility Authority.* GIS Specialist. Duties include data conversion in and out of CAD & GIS environments and mapping support. As part of a design-build team, Michael Baker is leading engineering services for the Manor Expressway (U.S. 290 East), a fully controlled-access, six-mile-long toll highway that is being constructed in the median of U.S. 290, between U.S. 183 and Parmer Lane to east of S.H. 130. The Manor Expressway will alleviate congestion and safety concerns and support the regional transportation network. Michael Baker is developing designs for the new highway, bridges, and frontage roads, including drainage systems and traffic control.

**Hazard Elimination, Pavement Preservation, and Rest Area Rehabilitation Services, Yavapai County, Arizona.** *Arizona Department of Transportation.* GIS Specialist. Duties included data conversion in and out of CAD and GIS environments, database administration, and mapping support. Michael Baker provided design engineering, project coordination, and construction documents for hazard elimination and safety improvements to approximately seven miles of the southbound lanes of I-17 and rehabilitation of the Sunset Point Rest Area parking lot. Michael Baker prepared roadway design plans and profile sheets, quantity calculations, and cost estimates; designed roadside elements; reviewed engineering reports, plans, and specifications; studied super-elevation issues, excavation/fill, and erosion control plans; developed barrier and culvert plans; and provided post-design services.

**Show Low Transit and Trails Connectivity Study, Show Low, Arizona.** *Arizona Department of Transportation.* GIS Specialist. Responsible for report exhibit creation, Census Bureau data acquisition, GIS data analysis, and GIS Data management. Michael Baker performed a study in this rural community to review and make recommendations for future improvements to the transit and trail systems. Michael Baker's services included project management, transit planning, sidewalk and trail planning, financial planning, and public involvement.

**Civil Engineering for Shared Use Path, San Carlos, Arizona.** *Arizona Department of Transportation.* GIS Specialist. Duties included data conversion in and out of CAD and GIS environments, field GPS unit preparation, and mapping support. Michael Baker is preparing the civil engineering portion of a project assessment scoping document for the U.S. 70 MP 291 Shared Use Path and East Entrance Monument. Michael Baker will prepare Americans with Disability Act-compliant conceptual plans, prepare drainage plans, and provide utility coordination.

## Salahuddin M. Sheikh, P.E.

### Technical Manager

#### General Qualifications

Mr. Sheikh has over four decades of experience related to bridges, water resources, public works, transportation, and environmental engineering for public and private sectors. Projects include bridges, flood control channels, water and wastewater treatment plants, reservoirs, pump stations, lift stations, well facilities, culverts and encasements, soundwalls and retaining walls. Mr. Sheikh's experience also includes heavy industrial structures related to steel mills, automobile plants, chemical and petrochemical facilities and refineries, mining and material handling installations, including conveyor galleries, transfer towers, underground mine structures, and ship loading facilities.

Mr. Sheikh has extensive experience in the development of project specifications and estimates for bridge and transportation projects. In the past 20 years, he has prepared the bridge special provisions for over 100 bridge projects including seismic retrofits, bridge widenings, bridge rehabilitation, and new or replacement bridges.

Mr. Sheikh has also served as the Quality Control Engineer for the majority of these projects, ensuring plans and specifications are consistent, design and quantities have been checked and all items of work are covered in the contract documents. He is also experienced in structural inspection, evaluation, repairs and rehabilitation of water related facilities.

#### Experience

**Interstate 880 Operational and Safety Improvements, Oakland, California.** *Alameda County Transportation Commission.* Structural Engineer. Responsible for structural engineering. Michael Baker provided engineering, environmental, and surveying and mapping services for a project to improve the mobility and traffic safety through the I-880 corridor, in the vicinity of 29th Avenue and 23rd Avenue. The project included removal and reconstruction of two freeway overcrossings, reconstruction of on-ramps and off-ramps, reconfiguration of local circulation patterns, and incorporation of a new roundabout at the 29th Avenue entrance ramp. Michael Baker provided right-of-way mapping services, boundary surveys, and aerial topographic surveys and prepared a joint CEQA/NEPA document. Michael Baker also provided type selection and final PS&E for mechanically stabilized embankment (MSE) retaining walls and pile-supported and conventional spread footing CIP concrete retaining walls, sound walls, and expanded polystyrene (EPS) block fill embankment and associated load distribution slab.

**Avenue 50 and 52 Crossing/Eastside Dike Levee Evaluation, Coachella Valley, California.** *PSAV, LLC.* Structural Engineer. Responsible for structural engineering. Michael Baker prepared regional hydrology, hydraulic, and sedimentation analyses for the 51-square-mile watershed tributary to the Eastside Dike Levee along the Coachella Canal. The project evaluated the condition of the existing levee and identified options for two roadway crossing encroachments across the levee system. Regional hydrology was prepared for this arid region using the HEC-1 program. Flood routing and maximum water surface profiles along the dike were prepared using FLO-2D. The analysis evaluated the dispersion of flows along the dike from the 10 major drainage systems which are tributary to the system.

*Years with Michael Baker: 30*  
*Years with Other Firms: 14*

#### *Degrees*

M.S., 1972, Civil  
Engineering/Structures,  
University of Michigan at Ann  
Arbor

B.S., 1970, Civil Engineering,  
University of Karachi Pakistan

#### *Licenses/Certifications*

Professional Engineer – Civil:  
Arizona, 2000, 34539

California, 1981, 32677

Nevada, 2000, 14418

Ohio, 1976, 41224

Utah, 2013, 8546772-2202

Guam, 2015, 1841

**La Entrada Drainage and Hydrology Studies, Coachella, California.** *PSAV, LLC.* Structural Engineer. Responsible for structural engineering. The project site includes seven regional conveyances and coalescing alluvial fans tributary to the Eastside Dike along the Coachella Canal. Michael Baker completed regional hydrology studies for the 50.6 square mile watershed, and 1- and 2-dimensional flood routing analyses to support the technical studies and identified the recommended improvements and project mitigation measures for the project site development. Michael Baker identified a whole fan flood hazard management program and developed the alignment and conceptual design for seven regional channels through the site.

**Laguna Canyon Creek Erosion Protection and Habitat Restoration Project, Laguna Beach, California.** *City of Laguna Beach.* Structural Engineer. Responsible for structural engineering. Michael Baker is providing planning, design, and permitting for the construction of a long-term erosion protection and habitat restoration within Laguna Canyon Creek that traverses a City owned parcel along Laguna Canyon Road. The site houses the City Animal Shelter and the Pacific Marine Mammal Center. The erosion of the creek banks are threatening the animal shelter facility and undermining the parking lot. The erosion protection project will protect the facilities, improve the flow characteristics of the creek, enhance and restore habitat, and reduce flooding potential without negatively affecting upstream or downstream properties.

**Interstate 5 / Jamboree Road Interchange Improvement, Irvine, California.** *City of Irvine.* Structural Engineer. Responsible for structural engineering. Michael Baker prepared a Permit Engineering Evaluation Report (PEER) for the I-405/Jamboree Road Interchange southbound exit ramp widening. The intersection experiences congestion from the high volume of vehicles on Jamboree Road and turning volumes at the southbound I-405 ramp intersection. The proposed improvements include left-turn lane and retaining wall construction, overhead sign structure reconstruction, traffic signal modification, minor drainage improvements, and utility coordination. Michael Baker prepared new aerial topographic mapping, a traffic analysis, preliminary improvement plans, cost estimates, and environmental technical studies in support of a CEQA Categorical Exemption.

**Central Park Bicycle, Pedestrian, and Circulation Study, Santa Clara, California.** *City of Santa Clara.* Structural Engineer. Responsible for structural engineering. Michael Baker provided planning and engineering services to improve pedestrian and bicycle access to and inside Central Park, a regional park in the City of Santa Clara. The study includes evaluation of ADA access, recommended improvement and enhancements, directional signage, safety and other modifications to encourage non-motorized travel. The project will close gaps and improve access for modes other than vehicles, specifically for the surrounding residential neighborhoods, and will promote walking and cycling to the park. A multi-discipline team of experts will plan and design the features required to improve park access. Work on the project has involved transportation planning, traffic engineering, transportation design, GIS, public outreach, and structural engineering capabilities.

**I-15 Design-Build Widening, Payson, Utah.** *Utah Department of Transportation, Region 3.* Structural Engineer. Responsible for structural engineering. Michael Baker served as the lead designer for a design-build project entailing roadway widening and reconstruction of seven miles of I-15 from the South Payson Interchange to the Spanish Fork River. The project consisted of roadway widening to the median, bridge widening of eight structures, and noise wall installation between 800 South to Main Street. Design elements also included signing, striping, signals, lighting, advanced traffic management systems (ATMS), and drainage.

**Interstate 215/Ramona Expressway Interchange, Perris, California.** *City of Perris.* Structural Engineer. Responsible for structural engineering. Michael Baker provided engineering services for improvements to the I-215/Ramona Expressway Interchange. Michael Baker's services included survey data compilation; preparation of right-of-way documents; roadway, drainage, structure, and landscape design; and the preparation of final plans, specifications, and cost estimates.



# James R. Christensen, P.E., LEED AP

## Technical Manager

### General Qualifications

Mr. Christensen is experienced in project management, design, planning, and construction management of water/wastewater projects. His background includes planning, engineering, and permitting of pump stations, water mains, sewer mains, wells, lift stations, force mains, water treatment plants, and reservoirs. He is also experienced in hydraulic modeling and master planning of water and wastewater systems. Mr. Christensen has been extensively involved in providing public outreach, and presenting to City councils.

### Experience

**Stormwater Management Master Plan, Chandler, Arizona.** *City of Chandler.* Water Resources Engineer. Performed a condition assessment of three stormwater pump stations. This project included performing a site visit to inspect the condition of the pump stations and their associated appurtenances, reviewing record drawings, and O&M manuals, and interviewing operations staff. A report of the inspection findings, maintenance checklist, and budget and replacement schedule were prepared for the City. Michael Baker assisted the City in complying with the renewed Phase II municipal separate storm sewer system (MS4) permit, including development of a stormwater management program (SWMP). This included identifying changes necessary to meet new requirements, recommendations for modifications to city standards, regulations, drainage, and inspection and maintenance programs.

**S.R. 86 Valencia Road to Kinney Road Roadway Improvement, Tucson, Pima County, Arizona.** *Arizona Department of Transportation.* Technical Manager. Responsible for the design of the realignment of a 42-inch diameter transmission main. Michael Baker provided engineering services for improvements to S.R. 86 from Valencia Road to Kinney Road, including 13 major drainage structures, two bridges, the realignment and reconstruction of local roads, intelligent transportation system, and extensive utility relocation. Michael Baker's services included development of a design memorandum and preliminary and final design.

**Austin Ranch Planned Area Development, Surprise, Arizona.** *Courtland Homes, Inc.* Water Resources Engineer. Prepared the design of a 12-inch diameter water line with La Tierra Grande. Michael Baker provided engineering services for the Austin Ranch East and Austin Ranch North planned area development, located at the corner of Deer Valley Road and Grand Avenue. The 850-acre community includes a mixture of single-family residential densities, neighborhood shopping centers, pocket parks, city park, elementary school site, natural open spaces, improved common open spaces, trails, and a remote waste water treatment plant. Michael Baker provided preliminary and final plats; infrastructure, subdivision, and drainage plans; master wastewater reports; and stormwater pollution prevention and water management plans. Michael Baker also prepared a conditional letter of map revision (CLOMR) for floodplain modification to be provided to the Federal Emergency Management Agency (FEMA).

**Gila/Agua Fria Lake Suitability Assessment, Maricopa County, Arizona.** *The Flood Control District of Maricopa County (FCDMC).* Water Resources Engineer. Responsible for data research and evaluation to determine existing ground water wells, ground water rights, surface water rights, water infrastructure, and

*Years with Michael Baker: 14  
Years with Other Firms: 3*

### *Degrees*

M.S.C.E., 2001, Civil Engineering (Water Resources), Brigham Young University

B.S.C.E., 2000, Civil and Environmental Engineering, Brigham Young University

### *Licenses/Certifications*

Professional Engineer – Civil: Arizona, 2004, 41186

California, 2003, C65007

LEED Accredited Professional, 2009

water usage within the project area. Michael Baker evaluated the physical, regulatory, environmental, and economic feasibility and potential development of a recreational use lake and flood control facility of the Buckeye Water Conservation and Drainage District. The study assessed the potential for project delivery and stakeholder support and partnerships for potential multiple use opportunities on the existing site and adjacent parcels.

**On-Call Water Main Replacements, Phoenix, Arizona.** *City of Phoenix, Arizona.* Project Manager. Served as the project manager for the design of a water main replacement project within the area bounded by Glendale Ave., 12th Street, 16th Street, and Orangewood Ave. This project included water main design, utility coordination, and permitting. Michael Baker has supported the City by providing on-call engineering services for the Water Main Replacement Program. Michael Baker has provided surveying services for several projects covering over 59,000 linear feet of city roadways. Tasks included establishment of horizontal and vertical control, records research, right-of-way mapping, topographic surveys for design, preparation of digital terrain models (DTM), and compilation of utility as-built drawings and other records for utility base mapping. City project experience includes water main replacement designs up to 27,000 linear feet, cut and plug details to abandon existing substandard mains, and water services from 50 to 800 connections.

**Paradise Resort RV Lift Station Replacement, Peoria, Arizona.** *EPCOR Water Arizona, Inc.* Project Manager. Served as the Project Manager for the feasibility analysis of the decommissioning of an existing lift station and the design of the recommended improvement. Michael Baker provided survey services and prepared design plans, specifications, and estimates (PS&E) to decommission an existing sanitary sewer lift station and install a gravity sewer line from the Paradise Resort RV Lift Station to the Coyote Lakes Lift Station. The project included preparing a hydraulic model to analyze the existing collection system; calibrating the model based on sewer flow monitoring results; preparing construction documents; and providing utility coordination, permitting, and bid and construction phase services.

**Wastewater Conveyance On-Call Engineering Services, Pima County, Arizona.** *Pima County.* Project Manager. Responsible for preparation of the design plans for a chemical feed station for odor control. Responsibilities included design plan preparation, permitting, bid phase services, shop drawing review, construction inspection and project closeout. As part of an on-call contract, Michael Baker completed a feasibility analysis for an approximate 3.5-mile sewer line to service the Pima County Fairgrounds. The study included technical memos on population forecasting and future service demand, analysis of two conceptual alignments, development of conceptual infrastructure plans, probable costs, hydraulic analysis, permitting and clearances, and identification of schedule impacts. The project required additional coordination with state and federal agencies because the sewer lines crossed state land as well as many Section 404 jurisdictional washes. Due to Michael Baker's exceptional performance, the project scope was expanded to determine the phasing of the Fairgrounds' existing seepage ponds to a gravity sewer system with equalization ponds.

**Stormwater Program Compliance Assistance, Peoria, Arizona.** *City of Peoria, Arizona.* Water Resources Engineer. Responsible for assisting with stormwater management program development, staffing requirements, and BMP selection. Michael Baker is currently assisting city in complying with the renewed Phase II municipal separate storm sewer system (MS4) permit, including development of a stormwater management program (SWMP). This includes identifying necessary changes to the city's current SWMP to meet the minimum requirements of the renewed MS4 permit, assisting in locating and/or verifying the locations of existing stormwater infrastructure, and identifying potential resources and/or partnerships to complement the city's program.

## John Nagle, P.E.

Vice President

### General Qualifications

Mr. Nagle has practiced in the field of civil engineering for many years, and he has extensive experience in planning, designing, and providing construction support services for major water and wastewater facilities. He has been responsible for the preparation of numerous construction plans, specifications and cost estimates for water and sewer pipelines, water pumping stations, wastewater lift stations, wells, and reservoirs. He has also prepared master plans for both municipal and private-sector clients for potable water, sanitary sewer, and recycled water systems. Mr. Nagle has used his combination of planning and design experience to prepare capital improvement programs, condition assessment studies, engineering feasibility studies, and connection fee and utility rate studies.

### Experience

#### **Clean Water Factory Environmental Impact Statement and Environmental Impact Report, San Bernardino, California.** *City of San Bernardino.* Task Manager. Responsible for engineering studies.

Michael Baker is preparing and processing a joint environmental impact statement and environmental impact report for the Clean Water Factory, a treated wastewater diversion facility. Key issues include potential impacts to endangered species, impacts on groundwater quality, and potential construction-related impacts associated with the construction of the pipeline conveyance system.

**Import Stations Meter Replacement Project, Costa Mesa, California.** *Mesa Water District.* Project Manager. Responsible for instrumentation and controls. Michael Baker provided design engineering for the replacement of flow meters and piping in Turnout Nos. TO-2, TO-4, and TO-5. Work under this project also included rehabilitating the existing Cla-Val control valves in each vault, and electrical design to integrate the improvements with Mesa Water's SCADA system. Work also included replacing an isolation valve in the Santa Ana Vault, OC-44 Pressure Reducing Station.

**La Pata and Camino Del Rio Transportation Project, Orange County, California.** *County of Orange.* Senior Civil Engineer. Responsible for Vice President and Senior Engineer duties. Michael Baker was retained to support OC Survey with pre-project biological survey for the La Pata Avenue Extension project. The project consisted of two phases, monitoring while OC Survey staked the project site disturbance limits and biological monitoring during vegetation removal prior to the bird nesting season. Michael Baker led the initial effort which was to document the placement of survey lath for the future vegetation clearing. The work effort included review of on-site surveyed / staking areas implemented by OC Survey. The purpose of the monitoring is to ensure consistency between on-the-ground staking and environmental clearances.

#### **Monterey Bay Regional Desalination Project (Formerly Coastal Water Project), Monterey, California.**

*California American Water.* Engineer. Performed extensive analysis for alignment and potential alternative alignments for 24 miles of pipeline in connection with the CWP. Michael Baker provided environmental and engineering support services for the Coastal Water Project. California American Water (CalAm) was required to replace a major portion of its supply of water pumped from alluvial wells on the Carmel River and from wells in the Seaside ground water basin. To accomplish this, CalAm developed a plan that included seawater desalination and aquifer storage and recovery (ASR). Michael Baker prepared the proponent's environmental assessment (PEA), which evaluated several alternative project configurations and included a comprehensive

*Years with Michael Baker: 31*  
*Years with Other Firms: 0*

### *Degrees*

M.S., 1996, Civil Engineering,  
Loyola Marymount University

B.S., 1987, Civil Engineering,  
Loyola Marymount University

### *Licenses/Certifications*

Professional Engineer – Civil:  
California, 1991, 46972

Nevada, 2001, 14762

Utah, 2009, 7214109-2202

Arizona, 2009, 49684

Guam, 2015, CE 1850

Water Rights Surveyor, Nevada,  
2001, 1101

range of engineering and technical studies. The PEA also included an extensive community involvement process with over 50 public meetings. Michael Baker also prepared an environmental impact report (EIR) and the issuance of a Certificate of Public Convenience and Necessity (CPCN) by the California Public Utilities Commission (CPUC). The project includes a 10-million-gallons-per-day (mgd) seawater desalination facility and desalinated water pump station in North Marina, an ASR system designed for a long term average of 2,000 acre-feet per year, a six-million-gallon reservoir, an 8.5-mgd ASR pump station, and approximately 20 miles of conveyance pipelines. Michael Baker also provided seawater pilot plant program management; coordination with California Department of Public Health (CDPH) of study plans, protocols, and sampling and analysis programs for pilot plant and watershed sanitary survey programs; design, construction, and operation of a corrosion control pilot plant; coordination of water quality requirements for water to be received by Cal Am from the regional desalination plant; and modeling studies for purposes of flow and pressure integration of the desalinated water into the existing CalAm system.

**Starlight Reservoir Feasibility Study, Whittier, California.** *City of Whittier.* Project Manager. Responsible for project management. Michael Baker prepared a preliminary siting study which included a geotechnical investigation and conceptual grading plans for three alternative tank configurations. The alternative tank configurations considered both above-grade, welded steel tanks and partially-buried, pre-stressed concrete tanks. The geotechnical analysis identified evidence of historical landslides near the site and recommended that the tank foundations maintain a 50-foot setback from the landslide slip plane identified in the geotechnical report. The preliminary recommendation to the City was to construct a partially-buried, pre-stressed concrete tank with a nominal storage volume of 921,000 gallons. This alternative leaves open the option of keeping the existing tank in service should the City decide to do so. Michael Baker is continuing to work with the City to develop recommendations for distribution and storage facilities in the City's lower distribution system pressure zones.

**Whittier Pumping Plant No. 2 Replacement Project, Pico Rivera, California.** *City of Whittier.* Project Manager. Responsible for project management. Michael Baker provided design engineering services and construction phase support, including full-time construction management and inspection services, for the Whittier Utility Authority's (WUA) Pumping Plant No. 2, which was originally constructed in the 1930s. Michael Baker identified off-site improvements to increase operational capability of existing facilities; evaluated pump station and control schemes; provided hydraulic analysis; and performed structural and electrical engineering, surveying, and mapping. Michael Baker also provided final plans, specifications, and estimates (PS&E); CEQA compliance (notice of exemption); and construction management and inspection.

**Seismic Assessment of Steel Reservoirs, Orange County, California.** *Moulton Niguel Water District.* QA/QC. Responsible for QA/QC. Moulton Niguel Water District selected Michael Baker to conduct a seismic, structural, mechanical, and safety assessment of 42 steel reservoirs. Evaluations and analysis were conducted for each tank by structural, civil/mechanical, and electrical engineering experts. The analyses included review and evaluation in the following categories: ring footing deficiency, freeboard deficiency, inlet/outlet piping, sample ports, safety, coating, cathodic protection, tank appurtenances, internal dive inspections, and geotechnical investigations. The final report included details of the findings and recommendations for improvements which was incorporated into a 20-year capital improvement program.

**Santa Margarita Water District (SMWD) Middle Chiquita Canyon Water Facilities, Orange County, California.** *Santa Margarita Water District.* Project Manager. Responsible for project management. Michael Baker provided preliminary and final design services for approximately 23,000 LF (combined) of domestic and recycled water transmission mains, two 2.0 MG domestic water reservoirs and one 4.0 MG of recycled water reservoir. The project also included: alternative pipeline alignment analysis for routes through environmentally sensitive areas and agricultural areas; grading phasing analysis; and coordination with the Rancho Mission Viejo Company, California Department of Public Health, San Diego Gas and Electric, and the California Department of Fish and Wildlife.

## Matthew C. Klyszeiko, AICP

### Senior Planner

#### General Qualifications

Mr. Klyszeiko offers extensive planning experience with an emphasis in land use planning, land entitlement, and public involvement. Mr. Klyszeiko's background includes project management and development of due diligence reports, feasibility reports, site plans, land use plans, design guidelines, and project theming and preparation of planning policy documents, including zoning ordinances, specific plans, and general/comprehensive plans, for both private and public sector clients. Mr. Klyszeiko has been involved in a variety of projects throughout the State of Arizona, from small infill and mixed-use projects to larger, master planned communities, renewable energy facilities, and municipal land use plans.

#### Experience

**75th Avenue and Thunderbird Road Intersection Improvements, Peoria, Arizona.** *City of Peoria, Arizona.* Planner. Responsible for planning. Michael Baker provided traffic analysis for intersection improvements at the fifth busiest intersection in the city. Michael Baker compared four alternatives based upon construction costs, right-of-way costs, utility impacts, access control, intersection operation, level of service, and travel time delay. Michael Baker also prepared roadway, drainage, pavement marking/signing, traffic signal, lighting, and signal interconnect plans and provide a layout of fiber communications and conduit. The project also included complex utility relocations for a large irrigation diversion structure that accommodates an 84-inch pipe, a 72-inch pipe, and a 20-duct fiber optic switching cabinet. Michael Baker also developed and coordinated project information materials and resources to deliver project initiatives and construction progress for the widening improvements.

**Comprehensive Transportation Plan (2013), Somerton, Arizona.** *Arizona Department of Transportation.* Project Manager. Responsible for project management. As a subconsultant, Michael Baker provided the travel demand model calibration and modeling, existing and future conditions data collection and analysis, and bicycle/ shared use path planning. Somerton is primarily an agricultural community that has experienced rapid growth due to its proximity to Yuma. The study evaluates all modes of transportation in the context of the regional network and local circulation. The study also incorporates special transportation service recommendations to enhance the overall transportation system. The shared use path component envisions a series of walking/biking loops that provide varying degrees of exercise and recreation while also supporting commuter mode alternatives to the vehicle. Trail amenities like trash receptacles, benches, trail markers, and exercise stations enhance the shared use path system and the user experience.

**Harquahala Valley Water Improvement Project, Phoenix, Arizona.** *CV Harquahala, LLC.* Planner. Responsible for planning. Michael Baker provided design services for the first phase of a multi-year project to move up to 100,000 acre/feet of water per year from the Harquahala Valley into the Phoenix Metro Area. The project included more than 15 miles of 96-inch water mains and associated pump stations and well improvements.

**Rio Rico Walk and Bike Study, Santa Cruz County, Arizona.** *Arizona Department of Transportation.* Planner. Responsible for project management. Michael Baker conducted a study to identify improvements to pedestrian and bicycle facilities to improve accessibility, safety, connectivity, and comfort. Michael Baker's services included planning, public and stakeholder outreach, a gap analysis, design guidelines development, and funding source identification.

*Years with Michael Baker: 14*  
*Years with Other Firms: 4*

#### *Degrees*

B.S., 2001, Urban Planning,  
Arizona State University

#### *Licenses/Certifications*

American Institute of Certified  
Planners, Arizona, 2005, 020529

**Zoning Codes and Subdivision Regulations, Somerton, Arizona.** *City of Somerton.* Project Manager. Responsible for project management. Michael Baker is currently finalizing a comprehensive update to the Somerton Zoning Code and Subdivision Ordinance. Tasks included reorganizing existing zoning code provisions; introducing new uses and definitions; assembling dimensional and development standards into tables and graphically illustrating them; adding new provisions to implement State mandates; simplifying permitting procedures; and reformatting the document to improve readability. In addition, this project required the implementation of a broad city review and public involvement process that included monthly staff roundtable discussions, technical advisory committee meetings, joint commission and council workshops, and community meetings.

**Traffic Signal Removal Study, Surprise, Arizona.** *City of Surprise.* Public Involvement Coordinator. Responsible for public involvement management. Michael Baker completed a comprehensive traffic signal removal study for the intersection of Bell Road and 168th Drive based on current traffic conditions to determine if the existing traffic signal was no longer warranted with the existing traffic volumes, the proximity to adjacent signalized intersections, and the current and alternative roadway network. Michael Baker managed the collection of existing traffic count data, conducted a field inventory of the study intersection and other intersections in the vicinity, analyzed crash data, and completed a capacity analysis. Michael Baker analyzed the existing conditions according to the signal warrants described in the 2003 Manual on Uniform Traffic Control Devices (MUTCD), reviewed current signal coordination plans in Synchro to determine the effects of removing the signal, and completed difference cost analysis comparing the continued signal operation costs versus a one-time signal removal cost. Michael Baker formulated a recommendation as to whether or not the removal of the existing traffic signal was justified. Additionally, Michael Baker provided public involvement services including development of a mailing list, door-to-door business outreach, facilitation of a public open house, and coordination of a project hot line.

**Casa Grande Regional Shopping Center, Casa Grande, Arizona.** *Insight Holdings.* Planner. Responsible for the entitlement and final land use design of this mixed-use development. Michael Baker provided planning services for over 600-acres of highly visible property devoted to residential, commercial, office, and medical land uses. Services included the development of a land use plan that incorporated the existing Promenade Shopping Center with the projects proposed multi-dealership automall, 400-bed regional hospital, retail shopping centers, and over 1,500 residential units. In addition, Michael Baker assisted in facilitating infrastructure and site design for Phase One of the project.

**Riverside Park, Goodyear, Arizona.** *Goodyear 142, LLC.* Project Manager. Responsible for the completion of a General Plan Amendment. Michael Baker prepared a general plan amendment for 142-acres of land located within Goodyear, Arizona. In response to the new opportunities resulting from the recent establishment of the proposed S.R. 801 freeway alignment, this amendment established a refined comprehensive land-use plan that contemplates the future character of the surrounding area. The final land use program employed a design that provided a balanced range of complementary land uses that, when considered in aggregate, defined a land-use corridor that matched the desired intensity of this future transportation corridor.

**Data Center Interior and Security System Improvements, Nationwide.** *CenturyLink.* Planner. Responsible for entitlement review. Michael Baker is providing architectural and engineering services for modifications and interior improvements to 15 data centers. Michael Baker's services include architecture and interior design, security system design, and high-level construction cost estimating. Michael Baker is also providing oversight of mechanical, electrical, and plumbing design and construction services by a subconsultant.

## Miles W. Costanza, P.E.,

### LEED AP

#### Civil Engineer

#### General Qualifications

Mr. Costanza has many years of professional engineering experience in water, wastewater treatment and infrastructure condition assessment. He has a proven record of experience in producing detailed designs, plans, specifications, and in construction management in the water and wastewater industry.

In previous experience, Mr. Costanza led a cross-functional team consisting of contractors, structural engineers, geotechnical engineers, and corrosion engineers for the condition assessment, rehabilitation design, and construction of steel tank infrastructure improvements. He also designed a chlorination system and control algorithm for a large, complex, and dynamic water storage system.

#### Experience

**Stormwater Management Master Plan, Chandler, Arizona.** *City of Chandler.* Civil Engineer. Responsible for leading and conducting condition inspections of 3 storm water pump station facilities and compiling inspection reports. Responsible for evaluating pumping equipment, developing maintenance schedule, and life cycle evaluation of equipment replacement. Michael Baker assisted the City in complying with the renewed Phase II municipal separate storm sewer system (MS4) permit, including development of a stormwater management program (SWMP). This included identifying changes necessary to meet new requirements, recommendations for modifications to city standards, regulations, drainage, and inspection and maintenance programs.

**Zone 1, 1A, and 2 Water Infrastructure Improvements, Phoenix, Arizona.** *City of Phoenix.* Project Engineer. Responsible for construction phase services of water infrastructure improvements including submittal review, response to RFIs, site inspections, and review of construction documents. Improvements included a 20 million gallon vertical turbine booster pump station and the installation of 1,000 linear feet of new 36-, 48-, and 60-inch steel water mains.

**South Mountain Reservoir 1-ES3 Pipe Line Modifications, Phoenix, Arizona.** *City of Phoenix.* Project Engineer. Responsibilities included construction administration services including submittal review, response to RFIs, and review of construction documents during the construction phase of the new pipeline project. This project provided a new 48-inch inlet pipe, installed by boring beneath an existing jurisdictional dam. The inlet carrier pipe was placed in a steel casing pipe and filled with cellular concrete to meet the requirements of Arizona Department of Water Resources Dam Safety Program. Also included in the project was design and construction of a 60-inch connection to Zone 1 pressure transmission main into the South Mountain reservoir and a new discharge structure inside the reservoir including modifications to the existing membrane liner to accommodate the new penetration. The tie-in connection to the existing 60-inch Zone 1 pressure transmission main included 48- and 60-inch isolation butterfly valves and valve vaults.

**Water Line Relocation for I-17/SR 69 Cordes Junction Traffic Interchange, Cordes Junction, Arizona.** *Arizona Department of Transportation.* Project Engineer. Responsibilities included the development of plans and specifications for the water line relocation necessary to facilitate the new roadway design. This project

*Years with Michael Baker: 2*  
*Years with Other Firms: 9*

#### *Degrees*

B.S., 2006, Civil and  
Environmental Engineering,  
Arizona State University

#### *Licenses/Certifications*

Professional Engineer:

Arizona, 2013, 55059

LEED Accredited Professional,  
2008

reconfigured the traffic interchange to improve safety and the operational characteristics of the interchange. To accommodate these changes, existing water lines were relocated to avoid construction conflicts with the road, and to relocate the water utilities in an accessible area once the roadway improvements were complete.

**Western Canal Water Main Improvements, Gilbert, Arizona.** *Town of Gilbert.* Design Engineer. Responsible for the preliminary design, alignment evaluation and coordination, design oversight, and construction administration. This project included 5000 feet of new 20-inch water transmission line, isolation valves, air release valves, combination air vacuum and air release valves, and appurtenances. The project was located along an existing canal, within a recreational park, and beneath high-voltage overhead wires.

**City of Mesa, Brown Road Water Treatment Plant Improvements, Mesa, Arizona.** *City of Mesa.* Project Engineer. Responsible for technology evaluations, conceptual design report, design implementation, and final design of improvements at the Brown Road Water Treatment Plant. This project included the evaluation and recommendation of algae mitigation technologies, evaluation and recommendations for pump check valve replacement options, and installation of surge mitigation improvements identified in a previous analysis for the finished water pump stations. The surge mitigation improvements included a hydro-pneumatic surge tank, a relief tank, silent check valve installation, and associated site piping improvements.

**Steel Tank Rehabilitation Program, Phoenix, Arizona.** *City of Phoenix.* Technical Lead. Responsibilities included design leadership, design team management, project scheduling and client coordination. This project focused on condition assessment, rehabilitation, and maintenance of 38 welded steel, above ground, potable water storage tanks and supporting infrastructure, including site piping, valves and safety equipment. This program included site piping design, coating evaluations, structural design elements, geotechnical design elements, cathodic protection, and overall tank performance. A strategic master plan and maintenance schedule was created and managed to minimize the costs associated with maintaining the storage tanks.

**Airport Water Reclamation Facility Expansion, Chandler, Arizona.** *City of Chandler.* Design Engineer. Responsibilities included design documents, engineering calculations, construction administration and commissioning. Five-million gallons per day (MGD) expansion of an existing 10 MGD municipal wastewater reclamation facility producing Class A+ reclaimed water using extended aeration, anaerobic pre-treatment, filtration, disinfection and advanced solids handling facilities. Project improvements included grading and roadways, a new solids handling building, new hydraulic structures (including aeration basins, clarifiers, filters, contact chambers and reservoirs), installation of new equipment (including screens, blowers, dewatering filter presses, chemical injection pumps and odor control units) and multiple site pipelines. Site piping included Ductile iron, PVC, and steel pipe materials to convey multiple types of water – ranging from raw influent to finished reclaimed water – and chemical process piping.

**1-ES1 Chlorination and Recirculation Improvements, Phoenix, Arizona.** *City of Phoenix.* Project Engineer. Responsibilities included conceptual study and design, design documents, construction administration and commissioning. This project provided state-of-the-art, automated chlorination and mixing system for a large, 90-million gallon, reservoir complex. The system allowed the City to optimize chlorine dosing, reduce operating costs, and reduce THM formation. Prior to these improvements, the chlorination system was an exclusively manually operated system. The system was based on a CFD analysis and a large historical dataset that included multiple scenarios, requiring justifiable assumptions and selection of the appropriate design conditions based on a high level of uncertainty with changing conditions. Project improvements included 1,000+ feet of small diameter chlorine solution piping, mixing systems, and retrofitting of existing chlorination equipment. The project was successfully executed and is currently operating and maintaining EPA-regulated residual disinfection for stored potable water.



## Smitha Kundur, P.E.

### Traffic Engineer

#### General Qualifications

Ms. Kundur has experience in traffic engineering who possesses good analytical, communication, and interpersonal skills coupled with a desire to contribute towards meeting the organization's goals. She has worked on numerous traffic studies, including impact analysis, signal warrant analysis, accident analysis, and parking analysis, complete streets analysis, for various developments across Arizona. These projects ranged from individual small developments to large master planned residential, commercial, and office communities. She has extensive experience in traffic signal design, signal timing and coordination, and roadway signing and marking in Synchro 7.0, Traffix 7.9, AutoCAD, and MicroStation V8i. She has experience in writing proposals, identifying project tasks, and developing project schedules for traffic studies, parking studies, signal warrant analyses, roadway signing and striping, and traffic signal design. She has the ability to learn quickly, multi-task, prioritize, and make appropriate engineering decisions. She has strong problem-solving, analytical, communication, and interpersonal skills and is a team player who has played an active role in mentoring junior staff.

#### Experience

**Miller Road, Tonopah-Salome Highway to One Mile North, Buckeye, Arizona.** *Maricopa County DOT.* Civil Associate. Prepared the sign summary sheets for the project. Michael Baker worked on a scoping assessment report and prepared plans, specifications, and estimates (PS&E) and the project advertisement for a one-mile stretch of Miller Road from Yuma Road to the Army National Guard Facility. The purpose was to pave the dirt road and thereby suppress the amount of dust generated by vehicular traffic. Multiple design issues were addressed, including right-of-way acquisition, overhead utility relocation, mitigation of potential environmental impacts, drainage control, and accommodation of the existing FCDMC Buckeye Flood Retarding Structure (FRS) #2.

**S.R. 86 Valencia Road to Kinney Road Roadway Improvement, Tucson, Pima County, Arizona.** *Arizona Department of Transportation.* Civil Associate. Responsible for addressing comments related to signal removal and new signal design plans. Michael Baker provided engineering services for improvements to S.R. 86 from Valencia Road to Kinney Road, including 13 major drainage structures, two bridges, the realignment and reconstruction of local roads, intelligent transportation system, and extensive utility relocation. Michael Baker's services included development of a design memorandum and preliminary and final design.

**Traffic Signal Removal Study, Surprise, Arizona.** *City of Surprise.* Civil Associate. Responsible for preparing the traffic signal removal plans and preparing a signal removal report after study for the intersection of Bell Road and 168th Drive. Michael Baker completed a comprehensive traffic signal removal study for the intersection of Bell Road and 168th Drive based on current traffic conditions to determine if the existing traffic signal was no longer warranted with the existing traffic volumes, the proximity to adjacent signalized intersections, and the current and alternative roadway network. Michael Baker managed the collection of existing traffic count data, conducted a field inventory of the study intersection and other intersections in the vicinity, analyzed crash data, and completed a

**Years with Michael Baker: 5**

**Years with Other Firms: 5**

#### Degrees

Graduate Studies, Civil Engineering, University of Arkansas at Fayetteville

B.Tech, 2002, Civil Engineering, Kakatiya Institute of Technology and Science, India

#### Licenses/Certifications

Professional Engineer - Civil, Arizona, 2016, 61947

capacity analysis. Michael Baker analyzed the existing conditions according to the signal warrants described in the 2003 Manual on Uniform Traffic Control Devices (MUTCD), reviewed current signal coordination plans in Synchro to determine the effects of removing the signal, and completed difference cost analysis comparing the continued signal operation costs versus a one-time signal removal cost. Michael Baker formulated a recommendation as to whether or not the removal of the existing traffic signal was justified. Additionally, Michael Baker provided public involvement services including development of a mailing list, door-to-door business outreach, facilitation of a public open house, and coordination of a project hot line.

**San Carlos West Pedestrian Pathway, Peridot, Arizona.** *Arizona Department of Transportation.* Civil Associate. Assisted in completing the signing plans and sign summary sheets. Michael Baker prepared the civil engineering portion of the project assessment scoping document and final design for construction for a one-mile lighted pedestrian pathway and west entrance monument on the San Carlos Apache Reservation. Michael Baker participated in concept development for the scoping document; prepared pathway construction, traffic control, and lighting plans, and performed utility coordination and clearance.

**Cave Creek/Carefree Transportation Framework Study, Cave Creek and Carefree, Arizona.** *Maricopa Association of Governments (MAG).* Civil Associate. Worked on the existing/future traffic conditions, level-of-service determination, and crash analysis. Michael Baker developed a transportation framework study (TFF) for a subregional master transportation plan for the towns of Cave Creek and Carefree, which are located in the northern portion of the Phoenix metropolitan area. The project included extensive public outreach; existing conditions inventory; development of goals and objectives; alternatives development, analysis, and recommendation; policy and funding analysis; phasing recommendations; and action plan. The primary goals of the plan were to connect to the regional bicycle network and develop a community bicycle loop with an emphasis on bicycle and pedestrian mobility, complete streets/context sensitivity, and enhanced associated economic activity. The plan developed pedestrian and bicycle linkages between the two communities and enhanced transportation, parking management, and safety for the multiple special events in both communities. The recommendations incorporated road diet recommendations in a context sensitive manner.

**S.R. 264 Widening Traffic Control Plans, Keams Canyon, Arizona.** *Arizona Department of Transportation.* Civil Associate. Assisted with the traffic control plans. Michael Baker is developing traffic control plans, pavement marking plans, cost estimate, and special provisions detailing the necessary traffic control to coincide with construction of the pavement widening/rehabilitation and guardrail work on S.R. 264 from MP 402.8 to MP 403.2. Michael Baker will prepare detailed traffic control plans for placement of new guardrail and will coordinate with district staff to develop construction phasing concepts and construction durations for each construction. The plans will include typical details for placement (installation and removal) of temporary concrete barriers (TCB) and guardrails, with temporary pavement markings for minimum 11-foot lanes. Michael Baker will also develop final pavement marking plan view sheets at 40-scale and will inventory the existing signing on S.R. 264 in both eastbound and westbound directions to determine if additional signs are required.

**Civil Engineering for Transportation Enhancement Projects, Various Locations, Arizona.** *Arizona Department of Transportation.* Civil Associate. Assisted with the traffic engineering related work on the project. Michael Baker is providing civil engineering services for a variety of transportation enhancement projects, including pedestrian and shared-use pathways, curbs, gutters, and sidewalks. Michael Baker is preparing Americans with Disability Act-compliant conceptual plans, evaluating locations and materials, developing drainage plans, and providing utility coordination.

## Joel P. Salerno, P.E.

### *Project Manager - Transportation*

#### General Qualifications

Mr. Salerno is a transportation and land/site development professional with significant planning, design, coordination, and management experience in urban and rural roadways and a variety of land development projects. He also has experience with light rail, commuter rail and freight rail mainline, siding, and rail yard projects. Pat recently worked as Utility Task Manager for the 14-mile North Metro Rail Commuter Line design-build project in Denver, Colorado, and worked as a Regional Engineer for the Program Management Team for various southern segments of the high profile California High Speed Rail Project. He also successfully completed work for the Phoenix Light Rail Transit Project 22-mile starter line, where he was involved in coordinating and permitting activities and civil design and management for power and signal substations. Additionally, Pat has been a key member of two major urban freeway/interchange design-build projects (I-17 and US 60) for ADOT in Phoenix/Tempe/Mesa, Arizona and played significant roles in traditional delivery urban highway and interchange design projects, as well as lead designs of rural highways, multi-lane expressways, and arterial street projects. He has developed design concept plans and reports (DCR's), commercial and residential land development plans, drainage design, hydrology reports, and water detention basin plans and participated in the design of city and state parks, and performed major utility relocation coordination. He is familiar with Private, Public Works and DOT project development standards, processes, and procedures.

He has been successful in project reconnaissance and pursuits, business development efforts, scoping, proposal development, budget and schedule management, man-hour estimating, client management and invoicing as well as project team coordination and oversight. He has well-rounded organization, communication, supervision, leadership, and management skills, is self-motivated, and possesses a strong ability to solve complex problems, meet deadlines and satisfy clients. He has project engineering, coordination, and management experience with a variety of clients, contractors, subconsultants, vendors, agencies and stakeholders and has participated in many public information meetings, presentations, quality assurance/quality control reviews, post-design activities, and has prepared conceptual to final design construction plans, specifications, and quantity/cost estimates for a variety of projects. Pat is proficient in ProjectWise and Microsoft Project and Office applications (Outlook, Email, PowerPoint, Word, Excel) and is proficient in MicroStation CAD software, with working knowledge of InRoads and familiarity with AutoCAD.

#### Experience

**S.R. 303L, I-10 to U.S. 60 (Grand Avenue), Phoenix, Arizona.** *PB.* Project Design Manager. Responsible for 16 miles of new freeway, as part of PB's management consultant (MC) contract with the Arizona Department of Transportation (ADOT). Responsibilities included assistance in the project corridor program management, and coordination/management of all design activities of the multi-disciplined Engineering and CAD staff. Coordinated work with ADOT, subconsultants, utility companies and other agencies and stakeholders. Performed quality control

*Years with Michael Baker: 1*

*Years with Other Firms: 33*

#### *Degrees*

B.S., 1984, Civil Engineering,  
University of Nebraska

#### *Licenses/Certifications*

Professional Engineer, Nebraska,  
1989, E-6810

Professional Engineer, Colorado,  
2013, PE.0048026

Professional Engineer, Arizona,  
1997, 31995

Professional Engineer, Texas, 2013,  
115222

reviews, oversaw the preparation of preliminary plans, quantities, cost estimates, special provisions, and sealed drawings and reports; and was involved in public information meetings.

Design packages for this 16-mile corridor included:

- **S.R. 303L, Thomas Road to Peoria Avenue in Glendale, Arizona.** Included a major system traffic interchange with Northern Parkway.
- **S.R. 303L, Bell Road TI, Cactus and Waddell Road Improvements, Surprise, Arizona.** Included single point urban interchanges at Cactus Road and Waddell Road.
- **S.R. 303L, Peoria Avenue to Bell Road, Surprise, Arizona.** Included multiple diamond interchanges.
- **S.R. 303L, Bell Road to Grand Avenue, Surprise, Arizona.** Included a single point urban interchange at Bell Road and a folded clover interchange at US 60 and the BNSF Railroad.

**U.S. 60 (Grand Avenue) DCR, Phoenix, Arizona.** *ADOT/URS.* Deputy Design Manager. Responsible for the DCR for the US60 (Grand Avenue) improvement projects in Glendale and Peoria, Arizona at the Northern/67th Avenue and Olive/75th Avenue locations. The projects involved complex overpass geometry, major bridge structures, drainage and utility considerations, new right-of-way delineation, and extensive traffic analyses and cost estimating to compare alternative concepts and configurations. Participated in public meetings and presentations. Oversaw plan, costs, and report development for the final DCR.

**Fletcher Avenue Improvements Alternate Assessment, Lincoln, Nebraska.** *KMA.* Project Engineer. Responsible for concept plans and quantity estimates and costs for numerous proposed roadway alternates for Fletcher Avenue and 84th Street on the Stevens Creek flood plain and floodway. Ultimately, one alternative will be taken forward into final design and construction plans. Quantities and cost estimates for the selected alternative will be developed.

**SW 40th Street/West "A" Street Improvements, Lincoln, Nebraska.** *KMA.* Project Manager/Lead Project Engineer. Responsible for coordination and oversight of final design, plan preparation, quantities, and cost estimates for upgrading the roadway from a two-lane, rural section to a five-lane urban section with a raised median. The SW 40th Street project includes a long viaduct over the BNSF yard, requiring frequent coordination with the bridge engineers designing the 300-foot-long viaduct portion of the project. The West "A" Street Project involved upgrading a busy arterial roadway adjacent to many subdivisions and acreages, creating the need for a design sensitive to these adjacent communities, and leading an active public involvement process.

**85th Street Arterial Improvements, Kansas City, Missouri.** *ET Archer.* Project Engineer. Responsible for final design of two-mile arterial road to be widened from two lanes to four lanes. Included intersection, pavement marking, and extensive storm sewer design, residential and commercial driveway connection layouts, and utility company coordination for all required utility relocations.

**63rd Street Arterial Improvements, Kansas City, Missouri.** *ET Archer.* Project Engineer. Responsible for final design of this four-lane 1.5-mile arterial road, which traversed a busy commercial area. Included intersection and pavement marking design and extensive storm sewer design. Frequent correspondence and field visits with utility companies were required to minimize impacts to utilities.

## Edmund C. Williams, P.E., ENV SP

### Project Manager/Engineer

Mr. Williams has more than 22 years of experience in design and project management for roadway, bicycle and pedestrian improvements, various site/civil, and water/drainage engineering projects for the public and private sector. He most recently came to Michael Baker from the Maricopa County Department of Transportation where he oversaw all aspects of the Engineering Division in the execution of six separate on-call contracts. As a project manager, Mr. Williams is responsible for ensuring quality plans are produced in compliance with drafting standards and specifications, as well as overseeing the project team resources and tracking the design status to ensure deliverables stay on schedule.

#### Experience

**MC 85 (Buckeye Road) from 99<sup>th</sup> Ave to 75<sup>th</sup> Ave, Maricopa County Department of Transportation, Engineering Division Manager.** Mr. Williams lead internal efforts at MCDOT in the planning and scoping of this roadway widening project which included coordinating design requirements with internal team members and local stakeholders in order to prepare the project for final design efforts. Long-term project within MCDOT to widen MC 85 to help the corridor function better as an overflow. During design, numerous developers came in to develop sites along corridor, requiring coordination to match design requirements. Corridor also required coordination between the City of Tolleson on the north side and City of Phoenix on the south side and matching their requirements with the project as well as their requirements for developers.

**Riggs Road Recker Road to Meridian Road, Maricopa County Department of Transportation, Engineering Division Manager.** Mr. Williams lead internal efforts at MCDOT in the planning and scoping of this multi-phase new roadway corridor required design and project coordination between Gilbert and Queen Creek. Area required permit clearances including a major archaeological site. Corridor included many design challenges which needed to be included in the scope for final design.

**Yavpe Connector Phases 1-4, Yavapai Prescott Indian Community, Bureau of Indian Affairs, Project Manager/Engineer.** Mr. Williams lead the overall design and project management for this multiphase roadway project for the Yavapai Prescott Indian Community. Throughout the project Mr. Williams was responsible for coordinating internal project resources through the design of the four phases and assisted with project stakeholder coordination including ADOT BIA, Yavapai County, the EPA, SHPO, City of Prescott, ADWR, FHWA (for historic bridge replacement funds), and IHS. Project consisted of design of over a mile of new roadway connecting SR89 and SR69 to allow for future development including new 5-lane road, intersection tie-in, side street connections, utility coordination/relocation, drainage control and a bridge over Granite Creek. This project crossed over an existing superfund site and required over 500,000 cubic yards of fill due to challenging terrain. Project also widened SR 69 from tribal boundary to tribal boundary, including approximately 1 mile of construction of SR 69. SR 69 was built to full future build-out per ADOT's requirements.

**Navajo Drive from SR 69 to Yavapai Road, Town of Prescott Valley, Project Manager/Engineer.** Mr. Williams was responsible for final engineering design and guidance to project designers and CAD staff throughout the

*Years with Michael Baker:* <1

*Years with Other Firms:* 22

#### *Degrees*

B.S., 1998, Civil Engineering,  
Georgia Institute of Technology

#### *Licenses/Certifications*

Professional Engineer - Civil,  
Arizona, 239287

Professional Engineer, Colorado,  
36232

development of the design and construction documents. Additional responsibilities included management of the project scope schedule and budget and coordinating submittal reviews with the client. This project provided for the final design to widen the existing Navajo Drive to allow for the addition of bike lane and multi-use path, and drainage improvements to over 0.5 miles of road.

**Mission Lane from Rowel to Long Mesa, *Town of Prescott Valley***, Project Manager/Engineer. Mr. Williams was responsible for the final engineering design and guidance to project designers and CAD staff throughout the development of the design and construction documents. Additional responsibilities included management of the project scope schedule and budget and coordinating submittal reviews with the client. This project provided the final design for roadway widening, redesign, and reconstruction for the implementation of drainage improvements. Existing roadway flooded regularly, flooding several homes. New underground drainage system required complete reconstruction of the road to meet drainage criteria. Project also involved addition of curb and gutter, sidewalks, and utility relocation.

**Viewpoint Drive at SR 89 Intersection Improvements, *Town of Prescott Valley***, Project Engineer. Mr. Williams for the final engineering design and guidance to project designers and CAD staff throughout the development of the design and construction documents. This project provided for the final design of an addition of a northbound right turn bay at a diamond interchange. This project involved the relocation of traffic signal poles and extensive coordination with the local ADOT district office.

**Gail Gardner Way from Iron Springs Road to Willow Creek Road, *City of Prescott***, Project Engineer. Mr. Williams was responsible for the final engineering design and guidance to project designers and CAD staff throughout the development of the design and construction documents. This project provided the final design for the widening and improvements of an existing roadway and approximately ½-mile extension of new roadway. In addition to the roadway design, the project included extensive utility extensions, drainage control improvements, two traffic signals improvements and one new traffic signal.

Attachment 3-B  
Key Personnel Proposal

Answer all questions thoroughly in the spaces provided. **Complete this form in full for each one of the key personnel who will participate in this contract.** Insert or attach a separate resume if desired, but any attached resumes are supplemental to this form and **do not substitute resumes for this form.** Offeror shall list any resume filename within the Key Personnel Form resume section and Attach as titled in ProcureAZ with offer. Resumes shall not be listed in Attachment 3-B as Supplements.

<b>9</b>	Name:	<b>Alejandro Riano</b>	How long with company?	<b>2 years</b>
	Current position in company:	<b>Civil Engineer</b>	How long in position?	<b>2 year</b>
	Position for the Services:	<b>Drainage</b>	How much of time will be dedicated to the Services?	<b>50 %</b>
	What primary functions will be assigned?	<b>Drainage, data collection, hydrology task, hydraulic task, research, technical guidance</b>		
	Describe person's experience in performing services like those that are to be assigned:	Mr. Riano is a water resources engineer with several years of experience in hydrologic and hydraulic modeling, heavy civil engineering work, personnel training and software testing. He has extensive experience in Area Drainage Master Plans, dam breach modeling, and application of the frequency analysis techniques. Mr. Riano is committed to serve the engineering community by actively participating in local engineering associated organizations to educate and improve the skills in engineering and develop water resources infrastructure, policy and management through the application of state of the art modeling, and cost effective management approaches.		
	List person's job-related training and education:	<p>M.S., 2013, Civil and Environmental Engineering, Arizona State University          B.S.E., 2008, Civil Engineering, Arizona State University          Professional Engineer: Florida – 75130; Arizona - 53023          Certified Floodplain Manager, 2009, US-09-04284</p> <p>IPCPR 4 Training. Florida Floodplain Manager Association. Orlando Florida. April 15, 2015. 4 hours.</p> <p>Regional Statistical Hydrology and Flood Prediction. Urban Watershed Research Institute. Aurora, Colorado. 2011. 16 PDHs/1.6 CEUs/12CEC hours.</p> <p>SWMM5 for Drainage Planning and Design w/ &amp; w/o LID. Urban Watershed Research Institute. Aurora, Colorado. November 17 &amp; 18, 2011. 16 PDHs/1.6 CEUs/12CEC hours.</p>		
	Resume:	<b>Attachment 3-B Key Personnel Form Supplement Resumes.pdf</b>		

<b>10</b>	<b>Name:</b>	<b>Scott Nelson, RLS</b>	How long with company?	<b>5 years</b>
	Current position in company:	<b>Surveyor Project Manager</b>	How long in position?	<b>5 years</b>
	Position for the Services:	<b>Surveyor / Mapping / GIS</b>	How much of time will be dedicated to the Services?	<b>40 %</b>
	What primary functions will be assigned?	<b>Surveys, mapping, GIS, topographic survey design, right-of-way plans</b>		
	Describe person's experience in performing services like those that are to be assigned:	<p>Mr. Nelson is a registered land surveyor with several years of project and management experience. As the project manager, he emphasizes client focus at the early stages of a project to fully understand the client's needs in detail and then designs survey solutions tailored for the needs of the project by combining the level of detail required with the appropriate technology to save time and money. His expertise includes ALTA and boundary surveys, R/W surveys, topographic surveys, photogrammetric control and QC surveys, records research, legal descriptions and exhibits, construction surveys and as-built surveys. He has worked on many successful projects similar to those being requested in this solicitation. He is very client oriented and committed to delivering high quality professional services. He is responsible for all aspects of multiple survey projects, including survey field and office work, budgeting, technical services, project coordination and client relationships.</p>		
	List person's job-related training and education:	<p>B.S.E., 1984, Surveying, Iowa State University  Land Surveyor: Arizona – 21782; Nevada - 8553</p>		
	<b>Resume:</b>	<b><a href="#">Attachment 3-B Key Personnel Form Supplement Resumes.pdf</a></b>		



<b>11</b>	<b>Name:</b>	<b>John Matthews, GISP, CFM</b>	How long with company?	<b>19 years</b>
	Current position in company:	<b>GIS Specialist</b>	How long in position?	<b>12 years</b>
	Position for the Services:	<b>Survey / Mapping / GIS</b>	How much of time will be dedicated to the Services?	<b>50 %</b>
	What primary functions will be assigned?	<b>Surveys, mapping, GIS, on-site data collection, mapping and data conversion, map production</b>		
	Describe person's experience in performing services like those that are to be assigned:	<p>Mr. Matthews is an experienced geographic information systems (GIS) specialist. He spent one year working on a 3D mapping project for the government of British Columbia, and for more than nine years he performed mapping for the FEMA Flood Mapping program. For five of those years he supported the FEMA Response/Recovery Division Mapping program in the Mapping and Analysis Center (MAC). For three years of his tenure there he was the technical lead in charge of production and training. Mr. Matthews led production/mapping efforts for the terrorist attacks on September 11, the Shuttle Columbia disaster, and Hurricanes Katrina and Rita. Mr. Matthews has also worked for the FEMA Map Modernization Program, supporting the Comprehensive Flood Risk Resources and Response joint venture, which provides updated flood maps to counties affected by tropical Storm Allison. Mr. Matthews has also supported various other GIS projects, including the U.S. Customs and Border Patrol's Primary Fence Construction along the southern border, Fort Huachuca Real Property Master Plan Update, Buckeye FRS Rehabilitation, Canada Del Oro Hydrologic Study, Lackland AFB Preliminary Design Recruit Housing and Training Replacement Program, Maricopa County On-Call Physical Map Revision (PMR), and Alaska Stand Alone Gas pipeline project (ASAP), and the Alaska South Central LNG Project (AKLNG).</p>		
	List person's job-related training and education:	<p>B.A., 1998, Geography, Simon Fraser University  Certificate, 1998, Spatial Information, Simon Fraser University  Certified Floodplain Manager, 2008, US-08-03393  Certified GIS Professional, 2009, 00060702</p>		
	<b>Resume:</b>	<b>Attachment 3-B Key Personnel Form Supplement Resumes.pdf</b>		

<b>12</b>	<b>Name:</b>	<b>Salahuddin Sheikh, PE</b>	How long with company?	<b>30 years</b>
	Current position in company:	<b>Technical Manager</b>	How long in position?	<b>6 years</b>
	Position for the Services:	<b>Structures</b>	How much of time will be dedicated to the Services?	<b>50 %</b>
	What primary functions will be assigned?	<b>Structural engineering, bridge specifications, structural design</b>		
	Describe person's experience in performing services like those that are to be assigned:	<p>Mr. Sheikh has over four decades of experience related to bridges, water resources, public works, transportation, and environmental engineering for public and private sectors. Projects include bridges, flood control channels, water and wastewater treatment plants, reservoirs, pump stations, lift stations, well facilities, culverts and encasements, soundwalls and retaining walls. Mr. Sheikh's experience also includes heavy industrial structures related to steel mills, automobile plants, chemical and petrochemical facilities and refineries, mining and material handling installations, including conveyor galleries, transfer towers, underground mine structures, and ship loading facilities.</p> <p>Mr. Sheikh has extensive experience in the development of project specifications and estimates for bridge and transportation projects. In the past 20 years, he has prepared the bridge special provisions for over 100 bridge projects including seismic retrofits, bridge widenings, bridge rehabilitation, and new or replacement bridges.</p> <p>Mr. Sheikh has also served as the Quality Control Engineer for the majority of these projects, ensuring plans and specifications are consistent, design and quantities have been checked and all items of work are covered in the contract documents. He is also experienced in structural inspection, evaluation, repairs and rehabilitation of water related facilities.</p>		
	List person's job-related training and education:	<p>M.S., 1972, Civil Engineering/Structures, University of Michigan at Ann Arbor  B.S., 1970, Civil Engineering, University of Karachi Pakistan  Professional Engineer – Civil: Arizona - 34539; California - 32677; Nevada - 14418; Ohio - 41224; Utah - 8546772-2202; Guam - 1841</p>		
	<b>Resume:</b>	<b>Attachment 3-B Key Personnel Form Supplement Resumes.pdf</b>		

<b>13</b>	<b>Name:</b>	<b>James Ryan Christensen</b>	How long with company?	<b>12 years</b>
	Current position in company:	<b>Technical Manager</b>	How long in position?	<b>5 years</b>
	Position for the Services:	<b>Water Resources / Wastewater Engineer</b>	How much of time will be dedicated to the Services?	<b>50 %</b>
	What primary functions will be assigned?	<b>Wastewater engineering, water resources, master plans, wastewater flow projections, data research, water demand calculations</b>		
	Describe person's experience in performing services like those that are to be assigned:	Mr. Christensen is experienced in project management, design, planning, and construction management of water/wastewater projects. His background includes planning, engineering, and permitting of pump stations, water mains, sewer mains, wells, lift stations, force mains, water treatment plants, and reservoirs. He is also experienced in hydraulic modeling and master planning of water and wastewater systems. Mr. Christensen has been extensively involved in providing public outreach, and presenting to City councils.		
	List person's job-related training and education:	M.S.C.E., 2001, Civil Engineering (Water Resources), Brigham Young University B.S.C.E., 2000, Civil and Environmental Engineering, Brigham Young University Professional Engineer – Civil: Arizona -41186; California -C65007 LEED Accredited Professional, 2009		
	<b>Resume:</b>	<b>Attachment 3-B Key Personnel Form Supplement Resumes.pdf</b>		

<b>14</b>	<b>Name:</b>	<b>John Nagle, PE</b>	How long with company?	<b>31 years</b>
	Current position in company:	<b>Vice President/Technical Manager</b>	How long in position?	<b>4 years</b>
	Position for the Services:	<b>Water Resources / Wastewater Engineer</b>	How much of time will be dedicated to the Services?	<b>30 %</b>
	What primary functions will be assigned?	<b>Wastewater engineering, water resources, project management, engineering studies, instrumentation and controls</b>		
	Describe person's experience in performing services like those that are to be assigned:	<p>Mr. Nagle has practiced in the field of civil engineering for many years, and he has extensive experience in planning, designing, and providing construction support services for major water and wastewater facilities. He has been responsible for the preparation of numerous construction plans, specifications and cost estimates for water and sewer pipelines, water pumping stations, wastewater lift stations, wells, and reservoirs. He has also prepared master plans for both municipal and private-sector clients for potable water, sanitary sewer, and recycled water systems. Mr. Nagle has used his combination of planning and design experience to prepare capital improvement programs, condition assessment studies, engineering feasibility studies, and connection fee and utility rate studies.</p>		
	List person's job-related training and education:	<p>M.S., 1996, Civil Engineering, Loyola Marymount University  B.S., 1987, Civil Engineering, Loyola Marymount University  Professional Engineer – Civil: California – 46972; Nevada – 14762; Utah - 7214109-2202; Arizona – 49684; Guam - CE 1850  Water Rights Surveyor, Nevada, 2001, 1101</p>		
	<b>Resume:</b>	<b>Attachment 3-B Key Personnel Form Supplement Resumes.pdf</b>		

<b>15</b>	<b>Name:</b>	<b>Matthew Klyszeiko, AICP</b>	How long with company?	<b>14 years</b>
	Current position in company:	<b>Community Planning Practice Lead/Technical Manager</b>	How long in position?	<b>5 years</b>
	Position for the Services:	<b>Public Outreach</b>	How much of time will be dedicated to the Services?	<b>40 %</b>
	What primary functions will be assigned?	<b>Public outreach, planning, research, project management</b>		
	Describe person's experience in performing services like those that are to be assigned:	<p>Mr. Klyszeiko offers extensive planning experience with an emphasis in land use planning, land entitlement, and public involvement. Mr. Klyszeiko's background includes project management and development of due diligence reports, feasibility reports, site plans, land use plans, design guidelines, and project theming and preparation of planning policy documents, including zoning ordinances, specific plans, and general/comprehensive plans, for both private and public sector clients. Mr. Klyszeiko has been involved in a variety of projects throughout the State of Arizona, from small infill and mixed-use projects to larger, master planned communities, renewable energy facilities, and municipal land use plans</p>		
	List person's job-related training and education:	<p>B.S., 2001, Urban Planning, Arizona State University  American Institute of Certified Planners, Arizona - 020529</p>		
	<b>Resume:</b>	<b><a href="#">Attachment 3-B Key Personnel Form Supplement Resumes.pdf</a></b>		

<b>16</b>	<b>Name:</b>	<b>Miles Costanza, PE, LEED AP</b>	How long with company?	<b>2 years</b>
	Current position in company:	<b>Civil Engineer</b>	How long in position?	<b>2 years</b>
	Position for the Services:	<b>Water / Wastewater</b>	How much of time will be dedicated to the Services?	<b>50 %</b>
	What primary functions will be assigned?	<b>Civil Engineering, water/wastewater</b>		
	Describe person's experience in performing services like those that are to be assigned:	<p>Mr. Costanza has many years of professional engineering experience in water, wastewater treatment and infrastructure condition assessment. He has a proven record of experience in producing detailed designs, plans, specifications, and in construction management in the water and wastewater industry.</p> <p>In previous experience, Mr. Costanza led a cross-functional team consisting of contractors, structural engineers, geotechnical engineers, and corrosion engineers for the condition assessment, rehabilitation design, and construction of steel tank infrastructure improvements. He also designed a chlorination system and control algorithm for a large, complex, and dynamic water storage system.</p>		
	List person's job-related training and education:	<p>B.S., 2006, Civil and Environmental Engineering, Arizona State University  Professional Engineer, Arizona -55059  LEED Accredited Professional, 2008</p>		
	<b>Resume:</b>	<b>Attachment 3-B Key Personnel Form Supplement Resumes.pdf</b>		

<b>17</b>	<b>Name:</b>	<b>Smitha Kundur, P.E.</b>	How long with company?	<b>5 years</b>
	Current position in company:	<b>Traffic Engineer</b>	How long in position?	<b>5 years</b>
	Position for the Services:	<b>Traffic Engineering</b>	How much of time will be dedicated to the Services?	<b>50 %</b>
	What primary functions will be assigned?	<b>Traffic engineering, analysis, traffic impact studies, design concept reports, plans and specs</b>		
	Describe person's experience in performing services like those that are to be assigned:	<p>Ms. Kundur has experience in traffic engineering who possesses good analytical, communication, and interpersonal skills coupled with a desire to contribute towards meeting the organization's goals. She has worked on numerous traffic studies, including impact analysis, signal warrant analysis, accident analysis, and parking analysis, complete streets analysis, for various developments across Arizona. These projects ranged from individual small developments to large master planned residential, commercial, and office communities. She has extensive experience in traffic signal design, signal timing and coordination, and roadway signing and marking in Synchro 7.0, Traffix 7.9, AutoCAD, and MicroStation V8i. She has experience in writing proposals, identifying project tasks, and developing project schedules for traffic studies, parking studies, signal warrant analyses, roadway signing and striping, and traffic signal design. She has the ability to learn quickly, multi-task, prioritize, and make appropriate engineering decisions. She has strong problem-solving, analytical, communication, and interpersonal skills and is a team player who has played an active role in mentoring junior staff.</p>		
	List person's job-related training and education:	<p>Graduate Studies, Civil Engineering, University of Arkansas at Fayetteville  B.Tech, 2002, Civil Engineering, Kakatiya Institute of Technology and Science, India  Professional Engineer - Civil, Arizona, 61947</p>		
	<b>Resume:</b>	<b><a href="#">Attachment 3-B Key Personnel Form Supplement Resumes.pdf</a></b>		

<b>18</b>	<b>Name:</b> <b>Joel Salerno, P.E.</b>	How long with company?	<b>1 years</b>
	Current position in company:	How long in position?	<b>1 years</b>
	Position for the Services:	How much of time will be dedicated to the Services?	<b>50 %</b>
	What primary functions will be assigned? <b>Roadway engineering, reviewing plans, and specs</b>		
	<p data-bbox="212 999 475 1108">Describe person's experience in performing services like those that are to be assigned:</p> <p data-bbox="501 520 1414 1119">Mr. Salerno is a transportation and land/site development professional with significant planning, design, coordination, and management experience in urban and rural roadways and a variety of land development projects. He also has experience with light rail, commuter rail and freight rail mainline, siding, and rail yard projects. Pat recently worked as Utility Task Manager for the 14-mile North Metro Rail Commuter Line design-build project in Denver, Colorado, and worked as a Regional Engineer for the Program Management Team for various southern segments of the high-profile California High Speed Rail Project. He also successfully completed work for the Phoenix Light Rail Transit Project 22-mile starter line, where he was involved in coordinating and permitting activities and civil design and management for power and signal substations. Additionally, Pat has been a key member of two major urban freeway/interchange design-build projects (I-17 and US 60) for ADOT in Phoenix/Tempe/Mesa, Arizona and played significant roles in traditional delivery urban highway and interchange design projects, as well as lead designs of rural highways, multi-lane expressways, and arterial street projects. He has developed design concept plans and reports (DCR's), commercial and residential land development plans, drainage design, hydrology reports, and water detention basin plans and participated in the design of city and state parks, and performed major utility relocation coordination. He is familiar with Private, Public Works and DOT project development standards, processes, and procedures.</p> <p data-bbox="501 1161 1406 1587">He has been successful in project reconnaissance and pursuits, business development efforts, scoping, proposal development, budget and schedule management, man-hour estimating, client management and invoicing as well as project team coordination and oversight. He has well-rounded organization, communication, supervision, leadership, and management skills, is self-motivated, and possesses a strong ability to solve complex problems, meet deadlines and satisfy clients. He has project engineering, coordination, and management experience with a variety of clients, contractors, subconsultants, vendors, agencies and stakeholders and has participated in many public information meetings, presentations, quality assurance/quality control reviews, post-design activities, and has prepared conceptual to final design construction plans, specifications, and quantity/cost estimates for a variety of projects. Pat is proficient in ProjectWise and Microsoft Project and Office applications (Outlook, Email, PowerPoint, Word, Excel) and is proficient in MicroStation CAD software, with working knowledge of InRoads and familiarity with AutoCAD.</p>		
	List person's job-related training and education: B.S., 1984, Civil Engineering, University of Nebraska Professional Engineer, Nebraska, E-6810 Professional Engineer, Colorado, PE.0048026 Professional Engineer, Arizona, 31995 Professional Engineer, Texas, 115222		
	<b>Resume:</b> <a href="#">Attachment 3-B Key Personnel Form Supplement Resumes.pdf</a>		



<b>19</b>	<b>Name:</b>	<b>Edmund Williams, P.E., ENV SP</b>	How long with company?	<1 years
	Current position in company:	Project Manager/Engineer	How long in position?	<1 years
	Position for the Services:	Roadway Engineer	How much of time will be dedicated to the Services?	50 %
	What primary functions will be assigned?	Roadway engineering, reviewing plans, and specs		
	Describe person's experience in performing services like those that are to be assigned:	<p>Mr. Williams has more than 22 years of experience in design and project management for roadway, bicycle and pedestrian improvements, various site/civil, and water/drainage engineering projects for the public and private sector. He most recently came to Michael Baker from the Maricopa County Department of Transportation where he oversaw all aspects of the Engineering Division in the execution of six separate on-call contracts. As a project manager, Mr. Williams is responsible for ensuring quality plans are produced in compliance with drafting standards and specifications, as well as overseeing the project team resources and tracking the design status to ensure deliverables stay on schedule.</p>		
	List person's job-related training and education:	<p>B.S., 1998, Civil Engineering, Georgia Institute of Technology  Professional Engineer - Civil, Arizona, 239287  Professional Engineer, Colorado, 36232</p>		
	<b>Resume:</b>	Attachment 3-B Key Personnel Form Supplement Resumes.pdf		

FIRMS NAME (INSERT NAME): Michael Baker International, Inc.

TYPE OF PROJECT	TOTAL NUMBER OF FIRM PROJECTS (ALL FIRM LOCATIONS) COMPLETED IN LAST THREE YEARS	Using the Revenue Index (Enter 1-10) indicate the approximate revenue the firm has earned over the last three years from ARIZONA ONLY state, municipal, federal etc. government projects only	Using the Revenue Index (Enter 1-10) indicate the approximate revenue the firm has earned over the last three years from ARIZONA ONLY non-government projects only	TYPE OF PROJECT	TOTAL NUMBER OF FIRM PROJECTS (ALL FIRM LOCATIONS) COMPLETED IN LAST THREE YEARS	Using the Revenue Index (Enter 1-10) indicate the approximate revenue the firm has earned over the last three years from ARIZONA ONLY state, municipal, federal etc. government projects only	Using the Revenue Index (Enter 1-10) indicate the approximate revenue the firm has earned over the last three years from ARIZONA ONLY non-government projects only
Acoustics, Noise Abatement	13	0	0	Land Surveying	20	4	0
Activity Centers	0	0	0	Landscape Architecture	31	0	0
Aerial Photography; Airborne Data and Imagery Collection and Analysis	15	1	0	LEED Accredited A/E	30	0	0
Agricultural Development; Grain Storage; Farm Mechanization	0	0	0	LEED Independent 3rd Party Building Commissioning	30	0	0
Air Pollution Control	13	0	0	Libraries; Museums; Galleries	0	0	0
Airports; Navais; Airport Lighting; Aircraft Fueling	11	0	0	Lighting (Exteriors; Streets; Memorials; Athletic Fields, Etc.)	71	4	0
Airports; Terminals and Hangars; Freight Handling	3	0	0	Lighting (Interior; Display; Theater, Etc.)	6	0	0
Animal Facilities	0	0	0	Lighting (Cave; Cavern)	0	0	0
Anti-Terrorism/Force Protection	9	0	0	Mapping Location/Addressing Systems	1	0	0
Area Master Planning	16	4	0	Materials Handling Systems; Conveyors; Sorters	0	0	0
Auditoriums and Theaters	0	0	0	Materials Testing	0	0	0
Automation; Controls; Instrumentation	93	3	0	Measurement / Verification / Conservation Water Consumption	0	0	0
Barracks; Dormitories	7	0	0	Medical Related	0	0	0
Bridge Design; Bridges	274	3	0	Metallurgy	0	0	0
Cartography	0	0	0	Mining and Mineralogy	1	0	0
Cemeteries (Planning and Relocation)	1	0	0	Modular Systems Design; Pre-Fabricated Structures or Components	0	0	0
Chemical Processing and Storage	0	0	0	Mold Investigation	0	0	0
Child Care/Development Facilities	0	0	0	Museums	0	0	0
Codes; Standards; Ordinances	53	1	0	Nuclear Facilities; Nuclear Shielding	17	0	0
Cold Storage; Refrigeration and Fast Freeze	0	0	0	Office Buildings; Industrial Parks	15	0	0
Commercial Building (Low Rise); Shopping Centers	19	1	0	Outdoor Recreation	0	0	0
Communications Systems; TV; Microwave	12	0	1	Petroleum and Fuel (Storage and Distribution)	9	0	0
Community Facilities	1	0	0	Phase I Environmental	0	0	0
Computer Facilities	2	0	0	Photogrammetry	15	1	0
Conservation and Resource Management	7	0	0	Pipelines (Cross-Country - Liquid and Gas)	77	0	0
Construction Management	138	0	0	Plumbing and Piping Design	36	4	0
Construction Materials Testing	0	0	0	Pneumatic Structures, Air-Support Buildings	6	0	0
Construction Surveying	12	0	0	Power Generation, Transmission, Distribution	89	2	0
Controls and Electronics Engineer	2	0	0	Prisons and Correctional Facilities	1	0	0
Corrosion Control; Cathodic Protection Electrolysis	5	0	0	Product, Machine Equipment Design	9	0	0
Cost Estimating; Cost Engineering and Analysis; Parametric Costing; Forecasting	142	6	0	Public Safety Facilities	1	0	0
Cryogenic Facilities	0	0	0	Radar; Sonar; Radio and Radar Telescopes	28	1	0
Dams (Concrete; Arch)	12	0	0	Radio Frequency Systems and Shieldings	18	0	0
Dams (Earth; Rock); Dikes; Levees	12	0	0	Railroad; Rapid Transit	33	0	0
Desalination (Process and Facilities)	4	0	0	Recreation Facilities (Parks, Marinas, Etc.)	91	4	0
Design & Planning Structured Parking Facilities	30	5	0	Refrigeration Plants/Systems	0	0	0
Design-Build - Preparation of Requests for Proposals	52	5	1	Rehabilitation (Buildings; Structures; Facilities)	25	1	0
Detection Security Systems	3	0	0	Research Facilities	2	1	0
Digital Elevation and Terrain Model Development	0	1	0	Resources Recovery; Recycling	0	0	0
Digital Orthophotography	2	0	0	Rivers; Canals; Waterways; Flood Control	40	3	0
Dining Halls; Clubs; Restaurants	5	0	0	Roof Infrared Imaging to Identify Water Leaks	0	0	0
Disability / Special Needs	0	0	0	Roofing	0	0	0
Dredging Studies and Design	2	0	0	Safety Engineering; Accident Studies; OSHA Studies	1	0	0
Ecological and Archeological Investigations	81	0	0	Security Systems; Intruder and Smoke Detection	3	0	0
Educational Facilities; Classrooms	22	0	0	Seismic Designs and Studies	8	0	0
Electrical Studies and Design	81	5	0	Sewage Collection, Treatment and Disposal	15	0	0
Electronics	3	0	0	Soils and Geologic Studies; Foundations	32	0	0
Elevators; Escalators; People-Movers	1	7	0	Solar Energy Utilization	4	1	0
Energy / Water Auditing Savings	0	0	0	Solid Wastes; Incineration; Landfill	12	0	0
Energy Conservation; New Energy Sources	8	0	0	Special Environments; Clean Rooms, Etc.	0	0	0
Environmental Impact Studies, Assessments or Statements	16	0	0	Specifications Writing	17	1	0
Fallout Shelters; Blast-Resistant Design	0	0	0	Storm Water Handling and Facilities	192	2	1
Fire Protection	44	0	0	Structural Design; Special Structures	23	1	0
Fisheries; Fish Ladders	0	0	0	Surveying; Platting; Mapping; Flood Plain Studies	272	5	2
Forensic Engineering	1	5	0	Sustainable Design	31	1	0
Garages; Vehicles Maintenance Facilities; Parking	37	2	0	Swimming Pools	2	0	0
Gas Systems (Propane; Natural, Etc.)	2	0	0	Testing and Inspection Services	154	4	0
Geodetic Surveying: Ground and Airborne	4	0	0	Topographic Surveying and Mapping	70	3	2
Heating; Ventilating; Air Conditioning	4	0	0	Towers (Self-Supporting and Guyed Systems)	1	0	0
Highways; Streets; Airfield Paving; Parking Lots	292	8	0	Toxicology	11	1	0
Historical Preservation	18	0	0	Traffic and Transportation Engineering	175	8	0
Hospital and Medical Facilities	11	0	0	Traffic Studies	18	5	0
Hotels; Motels	10	0	0	Transportation	192	8	0
Housing (Residential, Multi-Family; Apartments; Condominiums)	39	0	0	Tunnels and Subways	2	0	0
Hydraulics and Pneumatics	134	4	2	Urban Renewals; Community Development	7	2	0
Hydrographic Surveying	4	0	0	Utilities (Gas and Steam)	45	3	1
Industrial Buildings; Manufacturing Plants	11	0	0	Value Analysis; Life-Cycle Costing	3	0	0
Industrial Processes; Quality Control	1	0	0	Warehouse and Depots	12	0	0
Industrial Waste Treatment	1	0	0	Waste Water Treatment Facility	11	0	0
Intelligent Transportation Systems	22	3	0	Water Resources; Hydrology; Ground Water	172	7	2
Infrastructure	25	0	0	Water Supply; Treatment and Distribution	66	2	0
Irrigation; Drainage	92	5	0	Water Well Rehabilitation; Water Well Work	0	0	0
Judicial and Courtroom Facilities	0	0	0	Wind Tunnels; Research/Testing Facilities	0	0	0
Laboratories; Medical Research Facilities	2	1	0	Design	0	0	0
Labs - General	0	0	0	Zoning; Land Use Studies	28	3	0
Labs - Research - Dry	0	0	0				
Labs - Research - Wet	0	0	0				

Professional Services Index Number	Revenue
1.	Less than \$100,000
2.	\$100,000 to less than \$250,000
3.	\$250,000 to less than \$500,000
4.	\$500,000 to less than \$1 Million
5.	\$1 Million to less than \$2 Million
6.	\$2 Million to less than \$5 Million
7.	\$5 Million to less than \$10 Million
8.	\$10 Million to less than \$25 Million
9.	\$25 Million to less than \$50 Million
10.	\$50 Million or greater

**SAM Search Results**  
**List of records matching your search for :**

**Search Term : michael\* baker\* international\* inc.\***  
**Record Status: Active**

<b>ENTITY</b> Michael Baker International, Inc.	Status:Active
DUNS: 080232628 +4:	CAGE Code: 7TJ19 DoDAAC:
Expiration Date: Jan 31, 2019 Has Active Exclusion?: No Debt Subject to Offset?: No	
Address: 700 Huger St City: Columbia State/Province: SOUTH CAROLINA ZIP Code: 29201-3663 Country: UNITED STATES	
<b>ENTITY</b> Michael Baker International, Inc.	Status:Active
DUNS: 614844970 +4:	CAGE Code: 48SM9 DoDAAC:
Expiration Date: Jun 14, 2018 Has Active Exclusion?: No Debt Subject to Offset?: No	
Address: 165 S UNION BLVD STE 200 City: LAKEWOOD State/Province: COLORADO ZIP Code: 80228-2248 Country: UNITED STATES	
<b>ENTITY</b> MICHAEL BAKER INTERNATIONAL, INC.	Status:Active
DUNS: 175099530 +4:	CAGE Code: 79DK5 DoDAAC:
Expiration Date: Nov 30, 2018 Has Active Exclusion?: No Debt Subject to Offset?: No	
Address: 75410 GERALD FORD DR # 100 City: PALM DESERT State/Province: CALIFORNIA ZIP Code: 92211-2090 Country: UNITED STATES	
<b>ENTITY</b> Michael Baker International, Inc.	Status:Active
DUNS: 782320097 +4:	CAGE Code: 1UKL6 DoDAAC:
Expiration Date: Dec 1, 2018 Has Active Exclusion?: No Debt Subject to Offset?: No	
Address: 300 American Metro Blvd Ste 154 City: Hamilton State/Province: NEW JERSEY ZIP Code: 08619-2371 Country: UNITED STATES	

<b>ENTITY</b> Michael Baker International, Inc.	Status:Active
DUNS: 079900161 +4:	CAGE Code: 7EZ77 DoDAAC:
Expiration Date: Dec 1, 2018	Has Active Exclusion?: No Debt Subject to Offset?: No
Address: 500 Grant Street Ste 5400 City: Pittsburgh ZIP Code: 15219-2523	State/Province: PENNSYLVANIA Country: UNITED STATES
<b>ENTITY</b> Michael Baker International, Inc.	Status:Active
DUNS: 804266539 +4:	CAGE Code: 68D99 DoDAAC:
Expiration Date: Nov 30, 2018	Has Active Exclusion?: No Debt Subject to Offset?: No
Address: 1400 W MARKHAM ST STE 204 City: LITTLE ROCK ZIP Code: 72201-1843	State/Province: ARKANSAS Country: UNITED STATES
<b>ENTITY</b> Michael Baker International, Inc.	Status:Active
DUNS: 017864339 +4:	CAGE Code: 698X1 DoDAAC:
Expiration Date: Nov 30, 2018	Has Active Exclusion?: No Debt Subject to Offset?: No
Address: 310 NEW POINTE City: RIDGELAND ZIP Code: 39157-3903	State/Province: MISSISSIPPI Country: UNITED STATES
<b>ENTITY</b> MICHAEL BAKER INTERNATIONAL, INC.	Status:Active
DUNS: 798068235 +4:	CAGE Code: 78HM2 DoDAAC:
Expiration Date: Nov 22, 2018	Has Active Exclusion?: No Debt Subject to Offset?: No
Address: 5051 Verdugoway Ste 300 City: CAMARILLO ZIP Code: 93012-8683	State/Province: CALIFORNIA Country: UNITED STATES
<b>ENTITY</b> MICHAEL BAKER INTERNATIONAL, INC.	Status:Active
DUNS: 044679335 +4:	CAGE Code: 3BNH6 DoDAAC:
Expiration Date: Nov 13, 2018	Has Active Exclusion?: No Debt Subject to Offset?: No
Address: 7090 S UNION PARK AVE City: MIDVALE ZIP Code: 84047-4156	State/Province: UTAH Country: UNITED STATES

<b>ENTITY</b> [REDACTED] Michael Baker International, Inc.	Status:Active
DUNS: 080048398 +4:	CAGE Code: 7HAZ5 DoDAAC:
Expiration Date: Oct 24, 2018	Has Active Exclusion?: No Debt Subject to Offset?: No
Address: 120 S 6th St Ste 1710 City: Minneapolis ZIP Code: 55402-1819	State/Province: MINNESOTA Country: UNITED STATES
<b>ENTITY</b> [REDACTED] MICHAEL BAKER INTERNATIONAL, INC.	Status:Active
DUNS: 194075529 +4:	CAGE Code: 4ADF9 DoDAAC:
Expiration Date: Sep 19, 2018	Has Active Exclusion?: No Debt Subject to Offset?: No
Address: 3200 ROCKBRIDGE ST STE 104 City: RICHMOND ZIP Code: 23230-4333	State/Province: VIRGINIA Country: UNITED STATES
<b>ENTITY</b> [REDACTED] MICHAEL BAKER INTERNATIONAL, INC.	Status:Active
DUNS: 078708616 +4:	CAGE Code: 78EL7 DoDAAC:
Expiration Date: Sep 5, 2018	Has Active Exclusion?: No Debt Subject to Offset?: No
Address: 57 Boston-Providence Hwy Ste 203 City: Norwood ZIP Code: 02062-2645	State/Province: MASSACHUSETTS Country: UNITED STATES
<b>ENTITY</b> [REDACTED] MICHAEL BAKER INTERNATIONAL, INC.	Status:Active
DUNS: 002110661 +4:	CAGE Code: 1M7D8 DoDAAC:
Expiration Date: Sep 5, 2018	Has Active Exclusion?: No Debt Subject to Offset?: No
Address: 500 OFFICE CENTER DR STE 210 City: FORT WASHINGTON ZIP Code: 19034-3234	State/Province: PENNSYLVANIA Country: UNITED STATES
<b>ENTITY</b> [REDACTED] Michael Baker International, Inc.	Status:Active
DUNS: 941324113 +4:	CAGE Code: 1LKF8 DoDAAC:
Expiration Date: Sep 5, 2018	Has Active Exclusion?: No Debt Subject to Offset?: No
Address: 3900 C St Ste 900 City: ANCHORAGE ZIP Code: 99503-5963	State/Province: ALASKA Country: UNITED STATES

<b>ENTITY</b>	MICHAEL BAKER INTERNATIONAL, INC.	Status:Active
DUNS: 048029719	+4:	CAGE Code: 1W3M8 DoDAAC:
Expiration Date: Sep 5, 2018	Has Active Exclusion?: No	Debt Subject to Offset?: No
Address: 1904 W GRAND PKWY N # 110		
City: KATY	State/Province: TEXAS	
ZIP Code: 77449-1599	Country: UNITED STATES	
<b>ENTITY</b>	MICHAEL BAKER INTERNATIONAL, INC.	Status:Active
DUNS: 102661175	+4:	CAGE Code: 54QN6 DoDAAC:
Expiration Date: Jul 5, 2018	Has Active Exclusion?: No	Debt Subject to Offset?: No
Address: 10150 Covington Cross Dr		
City: LAS VEGAS	State/Province: NEVADA	
ZIP Code: 89144-6567	Country: UNITED STATES	
<b>ENTITY</b>	Michael Baker International, Inc.	Status:Active
DUNS: 080707650	+4:	CAGE Code: 7W8G3 DoDAAC:
Expiration Date: Jun 8, 2018	Has Active Exclusion?: No	Debt Subject to Offset?: No
Address: 1601 Trapelo Ste 261		
City: Waltham	State/Province: MASSACHUSETTS	
ZIP Code: 02451-7315	Country: UNITED STATES	
<b>ENTITY</b>	MICHAEL BAKER INTERNATIONAL, INC.	Status:Active
DUNS: 080236120	+4:	CAGE Code: 7W4T6 DoDAAC:
Expiration Date: Jun 7, 2018	Has Active Exclusion?: No	Debt Subject to Offset?: No
Address: 2346 Post Rd, Ste 201		
City: Warwick	State/Province: RHODE ISLAND	
ZIP Code: 02886-2217	Country: UNITED STATES	
<b>ENTITY</b>	MICHAEL BAKER INTERNATIONAL, INC.	Status:Active
DUNS: 016022303	+4:	CAGE Code: 1MSC1 DoDAAC:
Expiration Date: Jun 14, 2018	Has Active Exclusion?: No	Debt Subject to Offset?: No
Address: 400 WASHINGTON ST E STE 300		
City: CHARLESTON	State/Province: WEST VIRGINIA	
ZIP Code: 25301-1509	Country: UNITED STATES	

<b>ENTITY</b> Michael Baker International, Inc.	Status:Active
DUNS: 073022944 +4:	CAGE Code: 0F6Z8 DoDAAC:
Expiration Date: Jun 14, 2018	Has Active Exclusion?: No Debt Subject to Offset?: No
Address: 3601 Eisenhower Ave Ste 600 City: Alexandria ZIP Code: 22304-6426	State/Province: VIRGINIA Country: UNITED STATES
<b>ENTITY</b> MICHAEL BAKER INTERNATIONAL, INC.	Status:Active
DUNS: 786887703 +4:	CAGE Code: 79DK9 DoDAAC:
Expiration Date: Jun 14, 2018	Has Active Exclusion?: No Debt Subject to Offset?: No
Address: 40810 COUNTY CENTER DR STE 100 City: TEMECULA ZIP Code: 92591-6049	State/Province: CALIFORNIA Country: UNITED STATES
<b>ENTITY</b> MICHAEL BAKER INTERNATIONAL, INC.	Status:Active
DUNS: 942848714 +4:	CAGE Code: 79CB1 DoDAAC:
Expiration Date: Jun 14, 2018	Has Active Exclusion?: No Debt Subject to Offset?: No
Address: 500 YGNACIO VALLEY RD STE 300 City: WALNUT CREEK ZIP Code: 94596-3846	State/Province: CALIFORNIA Country: UNITED STATES
<b>ENTITY</b> MICHAEL BAKER INTERNATIONAL, INC.	Status:Active
DUNS: 088202379 +4:	CAGE Code: 1KTF3 DoDAAC:
Expiration Date: Jun 14, 2018	Has Active Exclusion?: No Debt Subject to Offset?: No
Address: 6020 Cornerstone Ct W Ste 260 City: San Diego ZIP Code: 92121-3729	State/Province: CALIFORNIA Country: UNITED STATES
<b>ENTITY</b> Michael Baker International, Inc.	Status:Active
DUNS: 080144159 +4:	CAGE Code: 7KAJ9 DoDAAC:
Expiration Date: Jun 14, 2018	Has Active Exclusion?: No Debt Subject to Offset?: No
Address: 60 Garden Ct Ste 230 City: Monterey ZIP Code: 93940-7326	State/Province: CALIFORNIA Country: UNITED STATES

<b>ENTITY</b> Michael Baker International, Inc.	Status:Active
DUNS: 112128140 +4:	CAGE Code: 69UN4 DoDAAC:
Expiration Date: Jun 14, 2018 Has Active Exclusion?: No Debt Subject to Offset?: No	
Address: 1818 MARKET ST STE 3110 City: PHILADELPHIA State/Province: PENNSYLVANIA ZIP Code: 19103-3653 Country: UNITED STATES	
<b>ENTITY</b> Michael Baker International, Inc.	Status:Active
DUNS: 020841673 +4:	CAGE Code: 69GW8 DoDAAC:
Expiration Date: Jun 14, 2018 Has Active Exclusion?: No Debt Subject to Offset?: No	
Address: 2030 FALLING WATERS RD STE 125 City: KNOXVILLE State/Province: TENNESSEE ZIP Code: 37922-8803 Country: UNITED STATES	
<b>ENTITY</b> Michael Baker International, Inc.	Status:Active
DUNS: 080268066 +4:	CAGE Code: 7N4R2 DoDAAC:
Expiration Date: Jun 14, 2018 Has Active Exclusion?: No Debt Subject to Offset?: No	
Address: 1026 Chorro St Ste 225 City: SAN LUIS OBISPO State/Province: CALIFORNIA ZIP Code: 93401-3299 Country: UNITED STATES	
<b>ENTITY</b> Michael Baker International, Inc.	Status:Active
DUNS: 080268079 +4:	CAGE Code: 7N8V7 DoDAAC:
Expiration Date: Jun 14, 2018 Has Active Exclusion?: No Debt Subject to Offset?: No	
Address: 140 Independence Cir Ste C City: Chico State/Province: CALIFORNIA ZIP Code: 95973-4963 Country: UNITED STATES	
<b>ENTITY</b> Michael Baker International, Inc.	Status:Active
DUNS: 080268057 +4:	CAGE Code: 7NB37 DoDAAC:
Expiration Date: Jun 14, 2018 Has Active Exclusion?: No Debt Subject to Offset?: No	
Address: 3900 Kilroy Airport Way Ste 120 City: Long Beach State/Province: CALIFORNIA ZIP Code: 90806-6811 Country: UNITED STATES	



<b>ENTITY</b>	Michael Baker International, Inc.	Status:Active
DUNS: 361333243	+4:	CAGE Code: 3ZVT1 DoDAAC:
Expiration Date: Jun 14, 2018 Has Active Exclusion?: No Debt Subject to Offset?: No		
Address: 1650 LYNDON FARM CT STE 101 City: LOUISVILLE State/Province: KENTUCKY ZIP Code: 40223-5008 Country: UNITED STATES		
<b>ENTITY</b>	Michael Baker International, Inc.	Status:Active
DUNS: 182698449	+4:	CAGE Code: 028J5 DoDAAC:
Expiration Date: Jun 14, 2018 Has Active Exclusion?: No Debt Subject to Offset?: No		
Address: 2929 N CENTRAL AVE STE 800 City: PHOENIX State/Province: ARIZONA ZIP Code: 85012-2794 Country: UNITED STATES		
<b>ENTITY</b>	Michael Baker International, Inc.	Status:Active
DUNS: 037868606	+4:	CAGE Code: 3X3S0 DoDAAC:
Expiration Date: Jun 14, 2018 Has Active Exclusion?: No Debt Subject to Offset?: No		
Address: 1304 CONCOURSE DR STE 200 City: LINTHICUM HEIGHTS State/Province: MARYLAND ZIP Code: 21090-1018 Country: UNITED STATES		
<b>ENTITY</b>	Michael Baker International, Inc.	Status:Active
DUNS: 070636210	+4:	CAGE Code: 7BS52 DoDAAC:
Expiration Date: Jun 14, 2018 Has Active Exclusion?: No Debt Subject to Offset?: No		
Address: 615 CRESCENT EXECUTIVE CT Ste 200 City: LAKE MARY State/Province: FLORIDA ZIP Code: 32746-2146 Country: UNITED STATES		
<b>ENTITY</b>	MICHAEL BAKER INTERNATIONAL, INC.	Status:Active
DUNS: 018634578	+4:	CAGE Code: 7MG30 DoDAAC:
Expiration Date: Jun 14, 2018 Has Active Exclusion?: No Debt Subject to Offset?: No		
Address: 801 S Grand Ave Ste 250 City: LOS ANGELES State/Province: CALIFORNIA ZIP Code: 90017-4725 Country: UNITED STATES		

<b>ENTITY</b> Michael Baker International, Inc.	Status:Active
DUNS: 831496679 +4:	CAGE Code: 6W9X7 DoDAAC:
Expiration Date: Jun 14, 2018 Has Active Exclusion?: No Debt Subject to Offset?: No	
Address: 7633 GANSER WAY STE 206 City: MADISON State/Province: WISCONSIN ZIP Code: 53719-2092 Country: UNITED STATES	
<b>ENTITY</b> Michael Baker International, Inc.	Status:Active
DUNS: 079929486 +4:	CAGE Code: 7FG68 DoDAAC:
Expiration Date: Jun 14, 2018 Has Active Exclusion?: No Debt Subject to Offset?: No	
Address: 2729 Prospect Park Dr Ste 220 City: Rancho Cordova State/Province: CALIFORNIA ZIP Code: 95670-6291 Country: UNITED STATES	
<b>ENTITY</b> MICHAEL BAKER INTERNATIONAL, INC.	Status:Active
DUNS: 361461721 +4:	CAGE Code: 3ZWD1 DoDAAC:
Expiration Date: Jun 12, 2018 Has Active Exclusion?: No Debt Subject to Offset?: No	
Address: 200 W ADAMS ST STE 2800 City: CHICAGO State/Province: ILLINOIS ZIP Code: 60606-5234 Country: UNITED STATES	
<b>ENTITY</b> Michael Baker International, Inc.	Status:Active
DUNS: 197739530 +4:	CAGE Code: 39AB6 DoDAAC:
Expiration Date: Jun 12, 2018 Has Active Exclusion?: No Debt Subject to Offset?: No	
Address: 1228 Euclid Avenue Ste 1050 City: Cleveland State/Province: OHIO ZIP Code: 44115-1816 Country: UNITED STATES	
<b>ENTITY</b> Michael Baker International, Inc.	Status:Active
DUNS: 082428244 +4:	CAGE Code: 1M8H1 DoDAAC:
Expiration Date: Jun 12, 2018 Has Active Exclusion?: No Debt Subject to Offset?: No	
Address: 4431 N FRONT ST FL 2 City: HARRISBURG State/Province: PENNSYLVANIA ZIP Code: 17110-1778 Country: UNITED STATES	

<b>ENTITY</b>	Michael Baker International, Inc.	Status:Active
DUNS: 827041075	+4:	CAGE Code: 540F6 DoDAAC:
Expiration Date: Jun 12, 2018 Has Active Exclusion?: No Debt Subject to Offset?: No		
Address: 1501 LYNDON B JOHNSON FWY STE 650 City: DALLAS State/Province: TEXAS ZIP Code: 75234-6800 Country: UNITED STATES		
<b>ENTITY</b>	Michael Baker International, Inc.	Status:Active
DUNS: 832426030	+4:	CAGE Code: 6AHV5 DoDAAC:
Expiration Date: Jun 6, 2018 Has Active Exclusion?: No Debt Subject to Offset?: No		
Address: 2004 Jennie Lee Dr City: Idaho Falls State/Province: IDAHO ZIP Code: 83404-7000 Country: UNITED STATES		
<b>ENTITY</b>	MICHAEL BAKER INTERNATIONAL, INC.	Status:Active
DUNS: 081820458	+4:	CAGE Code: 0LRV8 DoDAAC:
Expiration Date: May 26, 2018 Has Active Exclusion?: No Debt Subject to Offset?: No		
Address: 14725 Alton Parkway City: Irvine State/Province: CALIFORNIA ZIP Code: 92618-2027 Country: UNITED STATES		
<b>ENTITY</b>	MICHAEL BAKER INTERNATIONAL, INC.	Status:Active
DUNS: 195201660	+4:	CAGE Code: 688M9 DoDAAC:
Expiration Date: May 25, 2018 Has Active Exclusion?: No Debt Subject to Offset?: No		
Address: 101 DAUPHIN ST City: MOBILE State/Province: ALABAMA ZIP Code: 36602-3209 Country: UNITED STATES		
<b>ENTITY</b>	Michael Baker International, Inc.	Status:Active
DUNS: 079125975	+4:	CAGE Code: 6ZD87 DoDAAC:
Expiration Date: May 22, 2018 Has Active Exclusion?: No Debt Subject to Offset?: No		
Address: 500 Enterprise Dr Ste 2B City: Rocky Hill State/Province: CONNECTICUT ZIP Code: 06067-3913 Country: UNITED STATES		

<b>ENTITY</b>	MICHAEL BAKER INTERNATIONAL, INC.	Status:Active
DUNS: 078708613	+4:	CAGE Code: 75GA0 DoDAAC:
Expiration Date: Apr 3, 2018	Has Active Exclusion?: No	Debt Subject to Offset?: No
Address: 3815 RIVER CROSSING PKWY STE 20		
City: INDIANAPOLIS	State/Province: INDIANA	
ZIP Code: 46240-7756	Country: UNITED STATES	

<b>ENTITY</b>	Michael Baker International, Inc.	Status:Active
DUNS: 933603482	+4:	CAGE Code: 1MAS0 DoDAAC:
Expiration Date: Mar 2, 2018	Has Active Exclusion?: No	Debt Subject to Offset?: No
Address: 272 Bendix Rd Ste 400		
City: Virginia Beach	State/Province: VIRGINIA	
ZIP Code: 23452-1367	Country: UNITED STATES	