



Offer and Acceptance

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

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

PAGE
1

Offeror: M3 Engineering & Technology Corp.

OF
1

OFFER

TO THE STATE OF ARIZONA:

The Undersigned hereby offers and agrees to furnish the material, service or construction in compliance with all terms, conditions, specifications and amendments in the Solicitation and any written exceptions in the offer. Signature also certifies Small Business status.

M3 Engineering & Technology Corporation

Company Name

2051 W. Sunset Road, Suite 101

Address

Tucson AZ 85704

City

State

Zip

rsibayan@m3eng.com

Contact Email Address

Signature of Person Authorized to Sign Offer

Ruben Sibayan

Printed Name

Assistant Vice President

Title

Phone: (520) 293-1488 x8603

Fax: (520) 293-8349

By signature in the Offer section above, the Offeror certifies:

1. The submission of the Offer did not involve collusion or other anticompetitive practices.
2. The Offeror shall not discriminate against any employee or applicant for employment in violation of Federal Executive Order 11246, State Executive Order 2009-9 or A.R.S. §§ 41-1461 through 1465.
3. The Offeror has not given, offered to give, nor intends to give at any time hereafter any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a public servant in connection with the submitted offer. Failure to provide a valid signature affirming the stipulations required by this clause shall result in rejection of the offer. Signing the offer with a false statement shall void the offer, any resulting contract and may be subject to legal remedies provided by law.
4. The Offeror certifies that the above referenced organization IS/ X IS NOT a small business with less than 100 employees or has gross revenues of \$4 million or less.

ACCEPTANCE OF OFFER

The Offer is hereby accepted.

The Contractor is now bound to sell the materials or services listed by the attached contract and based upon the solicitation, including all terms, conditions, specifications, amendments, etc., and the Contractor's Offer as accepted by the State.

This Contract shall henceforth be referred to as Contract No. ADSP016-00005912

The effective date of the Contract is March 1, 2016

The Contractor is cautioned not to commence any billable work or to provide any material or service under this contract until Contractor receives purchase order, contract release document or written notice to proceed.

State of Arizona
Awarded this

29

day of

February

20 16

Procurement Officer



ATTACHMENT I – General Qualifications
**ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912**

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

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

1. **Annual Request for Qualifications**

a. FIRM (OR BRANCH OFFICE) NAME:	M3 Engineering & Technology Corporation
b. FIRM (OR BRANCH OFFICE) STREET:	2051 W. Sunset Road, Suite 101
c. FIRM (OR BRANCH OFFICE) CITY:	Tucson
d. FIRM (OR BRANCH OFFICE) STATE:	AZ
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85704

f. YEAR ESTABLISHED:	1986
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(g1). OWNERSHIP - TYPE:	Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	N/A

h. POINT OF CONTACT NAME AND TITLE:	Ruben Sibayan, Assistant Vice President
i. POINT OF CONTACT TELEPHONE NUMBER:	520-293-1488 ext. 8603
j. POINT OF CONTACT E-MAIL ADDRESS:	rsibayan@m3eng.com

k. NAME OF FIRM (If block 1a is a branch office):	
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ATTACHMENT I – General Qualifications
ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

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

a. Approximate No. of Projects	b. Experience	c. Revenue Index Number <i>(see below)</i>
2	Bridges	1
24	Construction Management	9
1	Commercial Building (low rise)	4
1	Communications Systems; TV; Microwave	1
2	Community Facilities	4
3	Cost Estimating; Cost Engineering and Analysis	4
2	Educational Facilities; Classrooms	1
13	Electrical Studies and Design	2
1	Environmental Impact Studies, Assessment	1
1	Garages; Vehicles Maintenance Facilities; Parking	1
1	Highways; Streets; Airfield Paving; Parking Lots	1
12	Housing (residential)	1
18	Industrial Buildings; Manufacturing Plants	3
31	Mining and Mineralogy	10
3	Museums	3
16	Infrastructure	6

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

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

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

a. NAME Jose Teran	b. ROLE IN THIS CONTRACT Principal in Charge	c. YEARS EXPERIENCE	
		1. TOTAL 26	2. WITH CURRENT FIRM 21
d. LOCATION (<i>City and State</i>) M3 Engineering & Technology Corporation – Tucson AZ			
e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) Bachelor of Architecture		f. PROFESSIONAL TRAINING - REGISTRATIONS Licensed Architect – Arizona, Hawaii, South Carolina, New Mexico, Colorado, California, Florida, Nevada, Texas, Washington, Illinois	
g. OTHER PROFESSIONAL QUALIFICATIONS (<i>Organizations, Awards, etc.</i>) American Institute of Architects – Member National Council of Architectural Registration Boards – Member			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) Large Binocular Telescope (LBT) Improvements MGIO - Mt. Graham - Tucson, Arizona	(2) YEAR COMPLETED	
		Professional Services 2006	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Modifications to existing telescope facility including remodeling of dormitory rooms, observation level floor structural reinforcement and a 2,300 sq. ft. instrumentation laboratory. • <i>Varied sf</i> • \$2,300,000 • <i>Project Architect</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION (<i>City and State</i>) Atacama Large Millimeter Array (ALMA) Radio Telescope – San Pedro de Atacama, Chile	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE M3 provided a master plan for the ALMA infrastructure indicating the location of all ALMA facilities, access roads and utility interconnection as well as non-ALMA installations and land use boundaries. M3 developed architectural specifications for the buildings at the high altitude (5000m) array operating site (AOS). This included a review of the project requirements, an analysis of space usage and cost estimating and scheduling. • \$800,000,000 • <i>Project Manager and Lead Architect</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION (<i>City and State</i>) University of Arizona Hazardous Waste Facility – Tucson Arizona	(2) YEAR COMPLETED	
		Professional Services 2008	Construction (if applicable) 2009
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE M3 provided Architectural and Engineering services to design a first class process building that focused on life safety and the risks associated with hazardous waste processing. This facility was designed to handle the receiving, processing and shipping of the University's hazardous waste material. • 5,600 sf. • \$1,900,000 • <i>Project Architect</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION (<i>City and State</i>) TAA Maintenance Facility & Warehouse – Tucson Arizona	(2) YEAR COMPLETED	
		Professional Services 2006	Construction (if applicable) 2008
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE M3 provided Architectural and Engineering services for the new airport maintenance facility which includes vehicle maintenance, maintenance shops, grounds maintenance and expanded warehousing. • 43,000 sf. • \$7,100,000 • <i>Project Architect</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION (<i>City and State</i>) Herring Hall Historic Renovation – Tucson Arizona	(2) YEAR COMPLETED	
		Professional Services 2004	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE The Herring Hall Historic Renovation project was accomplished under the University of Arizona's Open End Contract and M3 provided comprehensive Architectural and Engineering design services for the project on the UofA's campus. The project involved a complete teardown of the interior floor and under-pinning of the existing foundations to create a new basement floor. The project successfully created additional building square footage with the addition of the new basement floor, thus meeting the needs of the colleges' special program. 10,000 sf • \$1,300,000 • <i>Project Architect</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm

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

a. NAME Ruben Sibayan	b. ROLE IN THIS CONTRACT Architect – Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 36	2. WITH CURRENT FIRM 23
d. LOCATION (<i>City and State</i>) M3 Engineering & Technology Corporation – Tucson AZ			
e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) Bachelor of Architecture		f. PROFESSIONAL TRAINING - REGISTRATIONS Licensed Architect – Arizona, Hawaii	
g. OTHER PROFESSIONAL QUALIFICATIONS (<i>Organizations, Awards, etc.</i>) American Institute of Architects – Member Accredited Professional, Leadership in Energy and Environmental Design (LEED)			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) Precision Toyota of Tucson – Tucson Arizona	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Design services for the auto-dealership campus facility which emulates the new Corporate Toyota Image USA II program being constructed across the United States. This facility includes a new state-of-the-art vehicle maintenance facility, new car sales and display and car washing facilities. ▪ 128,000 sf. ▪ \$18,000,000 estimated ▪ Project Manager and Project Architect	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION (<i>City and State</i>) VERITAS Control Building, F.L. Whipple Observatory – Mt. Hopkins, Arizona	(2) YEAR COMPLETED	
		Professional Services 2009	Construction (if applicable) 2011
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE M3 provided Architectural and Engineering services and construction administration services, under M3's Open-End Contract with the Smithsonian. This was for the Very Energetic Radiation Imaging Telescope Array System (VERITAS) Control Building. The Control Building provides a central control facility for the four telescopes for the VERITAS project. This facility was designed within the framework of the LEED Silver Certification Criteria. ▪ 5,600 sf. ▪ \$1,010,000 ▪ Project Manager and Project Architect.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION (<i>City and State</i>) Catalina Community Center Complex – Tucson Arizona	(2) YEAR COMPLETED	
		Professional Services 2008	Construction (if applicable) 2010
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE M3 provided architectural, civil, structural, and mechanical and electrical engineering services from schematic design through construction for this project. This one-story building provides space for public services including a food bank, health clinic, offices for CCS staff and other public services agencies. ▪ 2,985 sf. ▪ \$1,045,500 ▪ Project Manager and Project Architect.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION (<i>City and State</i>) Riverside Crossing Corporate Center – Tucson Arizona	(2) YEAR COMPLETED	
		Professional Services 2007	Construction (if applicable) 2009
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE M3 designed and constructed its own two-story corporate office building to have multiple environmental, economic, and health benefits. The building achieved a LEED silver rating for interiors. ▪ 88,000 sf. ▪ \$14,000,000 ▪ Project Architect	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION (<i>City and State</i>) Hangar for Aviation Maintenance Degree Program – Chandler-Gilbert Community College – Mesa, Arizona	(2) YEAR COMPLETED	
		Professional Services 2006	Construction (if applicable) 2008
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE M3 provided full service Architecture and Engineering design services for this aviation maintenance education program at Williams Gateway Airport. In addition to the hangar area, the facility provides tool room space and 4,000 square feet for offices, aviation labs including general classrooms, teaching labs, maintenance labs and libraries. ▪ 11,400 sf ▪ \$2,633,000 ▪ Project Manager and Lead Architect.	<input checked="" type="checkbox"/>	Check if project performed with current firm

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

a. NAME Paul Bowden	b. ROLE IN THIS CONTRACT Senior Electrical Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 40	2. WITH CURRENT FIRM 3
d. LOCATION (<i>City and State</i>) M3 Engineering & Technology Corporation – Tucson AZ			
e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) Bachelor of Science – Electrical Engineering (Power Option)		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer Electrical - Arizona, California, Colorado, Nevada, New Mexico, Texas Registered Communications Distribution Designer (RCDD)	
g. OTHER PROFESSIONAL QUALIFICATIONS (<i>Organizations, Awards, etc.</i>) LEED AP IEEE Member, BICSI Member			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) Pima County Fleet Services – Pima County, Tucson Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE M3 provided electrical engineering services for a vehicle fleet services maintenance facility. Electrical services included the design of power, lighting, fire alarm, CCTV, and telecommunication systems. ▪ 90,000 sf ▪ \$10,000,000 ▪ <i>Electrical Engineer of Record</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION (<i>City and State</i>) Pima County Central Plant Modernization – Pima County, Tucson Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE M3 provided a study to replace the existing chiller PCB transformer, piping expansion joints, piping insulation and supports. ▪ \$1,000,000 ▪ <i>Electrical Engineer of Record.</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION (<i>City and State</i>) University of Arizona North End Zone Stadium – Tucson Arizona	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE M3 teamed with Heery International for the design of the North End Zone Stadium Addition. M3 provided mechanical/plumbing, civil, electrical engineering support and full-service Construction Administration. ▪ 184,000 sf ▪ \$59,743,000 ▪ <i>Outside Electrical Consultant to M3 Engineering & Technology</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION (<i>City and State</i>) UAMC Elvira Office Renovation	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE M3 provided electrical engineering services for a large office renovation. Electrical services included the design of power, lighting, fire alarm, and telecommunication systems. M3 also provided a generator study to determine how to modify the existing emergency system for the office complex in the most efficient way possible. ▪ 30,000 sf ▪ \$3,000,000 ▪ <i>Electrical Engineer of Record.</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/>	Check if project performed with current firm

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

a. NAME Randall Swearingen	b. ROLE IN THIS CONTRACT Mechanical Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 23	2. WITH CURRENT FIRM 8
d. LOCATION (<i>City and State</i>) M3 Engineering & Technology Corporation – Chandler AZ			
e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) Bachelor of Science – Energy Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer Mechanical – Arizona	
g. OTHER PROFESSIONAL QUALIFICATIONS (<i>Organizations, Awards, etc.</i>) ASHRAE – Member			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) Laveen Support Service Building D – Laveen, Arizona	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE M3 provided HVAC, plumbing and fire protection engineering design for a new office and maintenance support building. The design included multiple air-conditioning zones for thermal comfort and the design of all plumbing facilities. ▪ 8,000 gsf office + 8,600 gsf vehicle carport ▪ \$1,650,000 ▪ Mechanical Engineering Design Consultant	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (<i>City and State</i>) NAU Communication Building Acoustical – Flagstaff, Arizona	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE M3 provided engineering services for multiple classrooms and lecture rooms, which were experiencing excessive background noise from existing mechanical equipment which was affecting the classroom environment. After a complete walk through and existing sound measurements documented a list of recommended items was generated. The final items selected included acoustical wall panels, carpeting, VAV terminal silencers and external wrapping of exposed ductwork. Final sound measurements were taken which verified the overall sound levels of the background noise was reduced providing for a better learning environment for the students. ▪ 12,000 sf. ▪ \$85,000 ▪ Project Manager and Lead Mechanical Design Consultant Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (<i>City and State</i>) Hangar for Aviation Maintenance Degree Program – Chandler-Gilbert Community College – Mesa, Arizona	(2) YEAR COMPLETED	
		Professional Services 2006	Construction (if applicable) 2008
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE M3 provided Architecture and Engineering design services for this aviation maintenance education program at Williams Gateway Airport. In addition to the hangar area, the facility provides tool room space and 4,000 square feet for offices, aviation labs including general classrooms, teaching labs, maintenance labs and libraries. ▪ 11,400 sf. ▪ \$2,633,000 ▪ Lead Mechanical/HVAC Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	

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

a. NAME Oscar Avilucea	b. ROLE IN THIS CONTRACT Structural Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 12	2. WITH CURRENT FIRM 12
d. LOCATION (<i>City and State</i>) M3 Engineering & Technology Corporation – Chandler AZ			
e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) Bachelor of Science – Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer Civil – Arizona	
g. OTHER PROFESSIONAL QUALIFICATIONS (<i>Organizations, Awards, etc.</i>) American Institute of Steel Construction - Member			

H. RELEVANT PROJECTS			
1.	(1) TITLE AND LOCATION (<i>City and State</i>) Chino Industrial PMLU Buildings Inspection – Tyrone New Mexico	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE M3 provided engineering services for a general inspection and certification via formal report submittal for on-site industrial post-mining land use buildings at the SX-EW, Ivanhoe Concentrator and the Mine Maintenance areas. A total of (69) structures were inspected. ▪ sf Not Available ▪ \$39,500 ▪ Project Manager and Lead Structural Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (<i>City and State</i>) Chiller Plant Upgrade – Casa Grande, Arizona	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE M3 provided engineering services for a new pre-engineered metal building to house three (3) 250 ton chillers and associated pumps. The pumping arrangement to the plant was a primary/secondary system with VFD's on the distribution pumps. Three (3) cooling towers were piped in parallel to remove the heat. The project included all controls, electrical, structural and mechanical piping for a complete system. ▪ 2,000 sf. ▪ \$1,600,000 ▪ Lead Structural Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (<i>City and State</i>) Hangar for Aviation Maintenance Degree Program – Chandler-Gilbert Community College – Mesa, Arizona	(2) YEAR COMPLETED	
		Professional Services 2006	Construction (if applicable) 2008
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE M3 provided full service Architecture and Engineering design services for this aviation maintenance education program at Williams Gateway Airport. In addition to the hangar area, the facility provides tool room space and 4,000 square feet for offices / aviation labs including general classrooms, teaching labs, maintenance labs and libraries. 11,400 sf. ▪ \$2,633,000 ▪ Lead Special Inspections Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	

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

a. NAME Matthew Oetting	b. ROLE IN THIS CONTRACT Civil Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 14	2. WITH CURRENT FIRM 5
d. LOCATION (<i>City and State</i>) M3 Engineering & Technology Corporation – Chandler AZ			
e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) Bachelor of Science – Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer Civil – Arizona	
g. OTHER PROFESSIONAL QUALIFICATIONS (<i>Organizations, Awards, etc.</i>)			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	(1) TITLE AND LOCATION (<i>City and State</i>) Ocotillo Community Association – Chandler Arizona	2014	
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE M3 provided engineering services to the Client for a solution to a shared drainage area. There was a concentrating drainage issue from the impervious surfaces to two spillways directed toward the property line and park which had resulted in erosion and debris being carried from one site to the other. ▪ \$1,800 ▪ <i>Project Manager and Lead Civil Engineer</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION (<i>City and State</i>) Chandler Valley Hope Site Improvements – Chandler Arizona	2010	2010
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE M3 provided architectural and engineering services for site improvements at Chandler Valley Hope Hospital. The intent of this project was to create a campus like setting while providing security for patients and staff. The scope of work consisted of improvements to two new parking lots, new landscaping, security fence, and new site lighting. M3 provided coordination with utility providers and the permitting processes. ▪ \$47,312 ▪ <i>Lead Civil Engineer.</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION (<i>City and State</i>) Hangar for Aviation Maintenance Degree Program – Chandler-Gilbert Community College – Mesa, Arizona	2006	2008
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE M3 provided full service Architecture and Engineering design services for this aviation maintenance education program at Williams Gateway Airport. In addition to the hangar area, the facility provides tool room space and 4,000 square feet for offices, aviation labs including general classrooms, teaching labs, maintenance labs and libraries. ▪ 11,400 sf ▪ \$2,633,000 ▪ <i>Project Civil Engineer.</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION (<i>City and State</i>)		
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION (<i>City and State</i>)		
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/>	Check if project performed with current firm

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

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

a. TITLE AND LOCATION <i>(City and State)</i> Northern Arizona University, Flagstaff, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION <i>(If applicable)</i> 2015

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Northern Arizona University	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT \$84,650
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

M3 initially prepared an acoustical analysis of the NAU School of Communications Building classrooms (12,000 sq. ft.). Several rooms were identified for existing noise issues and M3 recommended mitigation measures to improve the performance of each space. As a follow-up on this contract, M3 detail designed the mitigation measures for the contractor to install.

Key Issues & Solutions:

The key issue was that students and professors could not hear each other during class lectures. The HVAC noise was loud and bounced off the hard concrete block walls. To resolve this, M3's design added more diffusers in the HVAC ductwork system, and added various architectural enhancements to dampen any fugitive noise.

Value Engineering Items:

NAU originally wanted to install carpet in all classrooms, but M3's design solutions allowed for this requirement to be deleted from the project scope.



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

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

a. TITLE AND LOCATION <i>(City and State)</i> Biosphere 2 Landscape Evolution Observatory – Oracle Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER University of Arizona	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$5,000,000	e. TOTAL COST OF PROJECT \$4,223,212
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

This successful project, under M3's Open-End Contract with The University of Arizona, consists of three identical large steel planting tray structures built inside an existing glazed space frame building, a large greenhouse previously used for intensive agriculture, and supported over an existing concrete floor structure. These steel structures have three main parts: 1) The tray is a 38-foot wide by 100-foot long steel box open on the top, sloping 10% in the longitudinal direction and changing the transverse slope along the tray's length to form the ridges and valley channel that simulates the hill slope. 2) The substructure is a system of steel columns, beams and steel braces that support the tray through ten load cells centered on the top of each column. 3) The personnel transporter is a mobile steel structure similar to a gantry crane that travels over the tray, covering the full width and length of it, and allows scientists to monitor and take samples of the experiment without disturbing the soil. These three steel structures are unique in the world, in size and purpose, as they will simulate the interaction of the elements, especially water, with soil and vegetation on a hill slope. For this purpose a special irrigation system and its supporting structure runs parallel to both sides of the tray rising over 10 feet above the top of the tray to support sprinkler heads that will simulate the effect of rain in various patterns.

Experience Emphasis:

- ◆ Research Lab/Teaching Lab
- ◆ Specialty Structural Engineering
- ◆ Coordination with all U of A agencies - Facilities Planning Department
- ◆ Coordination with multiple user groups and scientific research technicians
- ◆ 2013 Excellence in Structural Engineering Award
- ◆ 2013 National Certificate of Recognition IDEAS2



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

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

a. TITLE AND LOCATION <i>(City and State)</i> VERITAS Control Building at FL Whipple Observatory, Amado, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If applicable)</i> 2011

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Smithsonian Institution	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$1,001,000	e. TOTAL COST OF PROJECT \$1,010,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

M3 provided complete Architectural and Engineering design and construction administration services for the Very Energetic Radiation Imaging Telescope Array System (VERITAS) Control Building. This 2,985 sf building provides a central control facility for the four telescopes of the VERITAS project.

Key Issues & Solutions:

As part of its duties during construction, M3 evaluated a concrete slab on grade that failed soon after the pour. M3 recommended slab to be removed and re-poured being that it was an exposed concrete finish. This involved third party structural review and additional material testing.

Value Engineering Items:

M3 participated in value engineering during the design, developing a feasible building system to meet project budget and schedule.



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

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

a. TITLE AND LOCATION <i>(City and State)</i> Catalina Community Services Facility, Pima County, Arizona		b. YEAR COMPLETED	
		PROFESSIONAL SERVICES 2009	CONSTRUCTION <i>(If applicable)</i> 2010
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER Pima County	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT \$1,045,476	

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

The Community Services Center Project (5,000 sq.ft.), which was implemented under M3's Pima County Open-End Contract, included a community satellite health facility for Pima County Health Department with capabilities for future expansion for a Senior Food Services Facility. The facility included the following program spaces: food receiving, food reserve, food bank for distribution to the community, clothing receiving and clothing bank for community distribution, offices for family wellness outreach programs, and sound control meeting rooms for individual consultation. The Health Department satellite program included examination rooms and consultation rooms, and a testing and analysis lab.

Experience Emphasis

M3 participated in value engineering during the design process to develop a feasible building system to meet project budget and schedule. Alternates were also developed and bids received for all alternates. During construction, M3 also assisted with mitigating roof structure construction noise. Testing results indicated faulty installation of the metal deck. The system was removed the structural deck connection corrected, and subsequently the roof system was re-installed. All added cost was to the general contractor.



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

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

a. TITLE AND LOCATION <i>(City and State)</i> Hangar for Aviation Maintenance Degree Program Chandler-Gilbert Community College, Mesa, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2006	CONSTRUCTION <i>(If applicable)</i> 2008

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Maricopa County Community College District	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT \$3,230,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)
This 22,000 sf hangar supports the college's aviation maintenance education program and provides a secure location for aircraft and line support tools used in that program. In addition, the facility provides flight planning and flight dispatch space for the flight program.

Key Issues & Solutions:

The key issues were designing a facility that met FAA regulations and meet CGCC's program needs all within a limited budget. To meet the FAA requirements, the design clearly delineated a landside/airside barrier both physically and visually. CGCC's program needs were met, but at a reduced scale than originally planned. The new design allowed for a future phase to complete the program.

Value Engineering Items:

Value engineering related to designing a simple, functional facility, while allowing for future expansion when more funding becomes available. The design compromise due to funding was to provide for future classrooms, and prepare the hangar doors to allow the facility to house a larger aircraft in the future by allowing the aircraft nose into the hangar, but keeping the taller tail outside.





ATTACHMENT I – General Qualifications

ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

6. ADDITIONAL INFORMATION

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

M3 is a full-service Architectural and Engineering firm. M3 provides a single source, coordinated team of professionals and support staff able to provide a full range of architectural services with in-house civil, structural, mechanical and electrical engineering services. M3 is involved in over 200 projects a year throughout Arizona, the US, and the world. Each project has its particular codes, regulations, and procedures to follow. For each project, M3 thoroughly investigates these and incorporates them into the overall project design criteria that all disciplines must follow.

It is M3's policy to have two key senior staff involved in the day to day activities of a project. Typically, this is the Project Manager of the project and it's Project Architect. This ensures that the State of Arizona has access at all times to a senior project person with the ability, authority and project knowledge to respond to your needs.

Because of M3's experience and full service capabilities, a significant amount of its previous project workload has been in "On-Call or As Needed" type contracts. These contracts encompass a wide variety of project types. Projects range from feasibility studies, code and ADA compliance issues to complete design for commercial facilities, historic preservation projects, offices, computer rooms, data/communications facilities, maintenance and fueling facilities, athletic facilities, and other general and specialized new facilities or facility modifications. A partial list of the past and current On-Call clients follows:

Arizona Department of Administration, Bureau of Indian Affairs, City of Avondale, City of Mesa, City of Tucson, Greenlee County, Kerr-McGee Environmental Management, Marana, Northern Arizona University, Pima County, Raytheon, Smithsonian, Tucson Electric Power, Unisource Energy Corp, United States Postal Service, and University of Arizona.

M3 Philosophy and Management Approach

M3 adheres to a design philosophy and management approach based on our commitment and sustained involvement of principals and senior professionals. The broad experience of M3 personnel brings strong management skills and tools that guide the development of the project in organizing, anticipating, involving, communicating and proposing resolutions to the specifics of the project. A benefit of our team is the interdisciplinary nature of our practices that offers continual hands-on senior leadership for the duration of the project representation for ALL disciplines.

M3's services include Architectural, Civil, Structural, Mechanical, Plumbing, Fire Protection, Electrical Engineering, Cost Estimating, and Construction Administration. With the Project Manager's ability to interact with design team members on a daily basis, issues that might impact the design, project schedule and budget are discussed and addressed immediately. This allows the team to collectively propose alternatives or re-allocate resources to best meet the project's schedule and budget.

The project mission will be based on a partnership of each team member, which is made up of the State of Arizona staff, M3's design staff and the CM@R (if part of the project delivery method) that will establish the process in achieving the project goals for a quality facility that is on time and within budget. The Principal-in-Charge and Project Manager will have authority and responsibility to represent M3 in all aspects. Each discipline will have a Senior Project Architect/Engineer that will be responsible for the management, assignment and production of their individual discipline. Ultimate responsibility of leadership of the design team, assignment of staff and adherence to schedule will reside with the Project Manager.

The Project Management Framework from Design through Construction will be based on:

M3's PM managing the project on a day to day basis which will enable the entire team to make decisions quickly and collectively to keep the project moving forward.

Standardized communication procedures to record key decisions and becoming available to all team members immediately.

Keeping everyone informed as the project progresses:

- Providing face to face interaction between the design team and the decision makers.
- Involving key user and operational personnel to ensure their expertise is heard.
- Reviewing the project and design with the Authorities having jurisdiction to confirm code compliance requirements including the state fire marshal and utility agencies.

Identifying and maintaining the project milestones and deliverables.

The Project Discipline Framework from Design through Construction will be based on each discipline:



ATTACHMENT I – General Qualifications
ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
Department of Administration
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Phoenix, Arizona 85007

Taking **ownership** of their task and becoming responsible for coordinating the design with all disciplines.
Contributing to project review process, cost estimating and quality control.
 Performing the **on-site construction observations** to ensure compliance to the documents and that the contractor clearly understands the design intent.

M3 Project Approach

Critical to the success of any project is to begin by clearly **defining the project**. This is done by:
 Evaluating and prioritizing the project needs.
 Establishing the project, project goals, budget, schedules and each team member's role.
 Confirming requirements of the State's design standards.
 Designing to the budget by balancing the budget with the design objectives and providing for alternative solutions to establish potential project bid alternates or options.
 Reviewing sustainability designs options that will enhance the long term performance.
 Ensuring Constructability reviews not only look at how to build the facility but how to operate the facility.

Projects involving an existing facility **renovation or remodel** require:

Review of record as-built documents, conduct on-site inspections to confirm as-built conditions and confirm operational conditions of the facility.
 Review of Operations and Maintenance records to identify and understand the procedures that operate and maintain the facility in order to design appropriate systems and equipment to keep costs down and allow for the ease of maintaining the facility.

Potential challenges in renovation or remodel work:

- **Minimal record information** – leads to potential unforeseen discoveries during construction
- **Compliance to current codes and local codes amendments** – energy conservation, HVAC, increased outside air requirements, lighting code compliance, ADA, fire protection
- **Change in use** – leads to building modifications for code compliance
- **Modifications to building systems** to meet local utility agencies current requirements
- **Life safety requirements** based on occupant loads and use.

Quality Control

M3's process for quality control is based on a combination of standardized controls, continual team collaboration, and active individual intervention for ensuring the highest standards are met during the design, the development of the construction documents and for adherence to the integrity of the design requirements during the construction phase. Key components of the M3 Quality Control procedures are to ensure coordination across all disciplines through:

- | | | |
|--------------------------------------|-------------------------------------|----------------------------------|
| • Teamwork | • Standardized tools and methods | • Continuity of team members |
| • Participation of State of AZ staff | • Record keeping through all phases | • Confirming goals at each phase |
| • Communication protocols | • Peer Review of design solutions | • Use of 3D BIM |

Schedule

M3 will review the project's requirements, establish the milestones and deliverables and commit to an agreed upon schedule that can be realistically met. Project schedules will be internally maintained by the PM and reviewed on a weekly basis. The status of the project schedule will be discussed at regularly held meetings of the project team and staff, then adjusted accordingly to maintain schedule.

Budget

Project success is based on having accurate and reliable cost information from the onset of the project. Cost estimates at incremental milestones during the progress of the project are the best way to realistically monitor, confirm and maintain construction costs. M3 will work with the State of AZ to identify cost savings in the design or suggest budget and/or scope revisions to keep the project on budget. M3's cost estimators are also part of the quality assessment/quality control process by identifying potential design discrepancies and/or potential high cost of individual building systems and equipment components.



ATTACHMENT I – General Qualifications

ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
Department of Administration
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Construction Administration

The original M3 Architectural and Engineering design staff will participate during construction to review the constructed systems and insure that the integrity and quality of the design is being implemented while supporting the efforts of the contractor with a common goal to meet the client's budget and schedule. M3's construction administration efforts to meet the construction budget and schedule starts from the beginning of construction requiring project closeout documents to be identified collected and maintained throughout.

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

a. Percentage of Total Work Attributable to State, Federal and Municipal Government Work:	1%
b. Percentage of Total Work Attributable to Non-Government Work:	99%

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

Signature: 

Date: 12-21-15

Name: __Ruben Sibayan, AIA, LEED AP__

Title: __Assistant Vice President__