

	<h2>Offer and Acceptance</h2>		<b>State of Arizona</b> <b>State Procurement Office</b> 100 N. 15 <sup>th</sup> Ave. Suite 201 Phoenix, AZ 85007
	SOLICITATION NO.: ADSPO16-00005912 Request for Qualifications: 2016 Annual Professional Services List	PAGE 1	
Offeror: <u>Urban Engineering, Inc.</u>	OF 1		

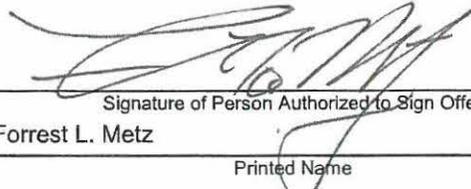
**OFFER**

**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.

Urban Engineering, Inc.

\_\_\_\_\_  
 Company Name  
 877 S. Alvernon Way #200  
 \_\_\_\_\_  
 Address  
 Tucson AZ 85711  
 \_\_\_\_\_  
 City State Zip  
 fmetz@urbanengineering.com  
 \_\_\_\_\_  
 Contact Email Address

  
 \_\_\_\_\_  
 Signature of Person Authorized to Sign Offer  
 Forrest L. Metz  
 \_\_\_\_\_  
 Printed Name  
 President  
 \_\_\_\_\_  
 Title  
 Phone: 520 318-3800  
 \_\_\_\_\_  
 Fax: 520 318-3808  
 \_\_\_\_\_

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

- The submission of the Offer did not involve collusion or other anticompetitive practices.
- 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.
- 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.
- The Offeror certifies that the above referenced organization  IS/  IS NOT a small business with less than 100 employees or has gross revenues of \$4 million or less.

**ACCEPTANCE OF OFFER**

The Offer is hereby accepted.

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

This Contract shall henceforth be referred to as Contract No. ADSPO16-00005912.

The effective date of the Contract is March 4, 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



Bid Solicitation: ADSP016-00005912

Header Information

**Bid Number:** ADSP016-00005912      **Description:** 2016 Annual Professional Services List      **Bid Opening Date:** 12/21/2015 03:00:59 PM

**Purchaser:** Gina DeCotiis      **Organization:** State of Arizona

**Department:** ADSP0 - State Procurement Office      **Location:** SPO - State Procurement Office

**Fiscal Year:** 16      **Type Code:** SW - Statewide      **Allow Electronic Quote:** Yes

**Alternate Id:**      **Required Date:**      **Available Date:** 12/04/2015 08:00:00 AM

**Info Contact:** Gina DeCotiis.azdoa.gov or 602-364-1087      **Bid Type:** OPEN      **Informal Bid Flag:** No

**Purchase Method:** Open Market

**Pre Bid Conference:** A pre-offer conference will not be conducted.

**Bulletin Desc:** The Arizona Department of Administration is requesting qualified persons or firms, engaged in lawful practice of professional services, to submit a statement of qualifications for the compilation of an annual list of professional services.

**Ship-to Address:** State Procurement Office  
100 N 15th Ave.  
Suite 201  
Phoenix, AZ 85007  
US  
Email: spo@azdoa.gov  
Phone: (602)542-5511

**Bill-to Address:** State Procurement Office  
100 N 15th Ave.  
Suite 201  
Phoenix, AZ 85007  
US  
Email: spo@azdoa.gov  
Phone: (602)542-5511

**Print Format:** Bid

**File Attachments:** [Exhibit I - General Agency Guidelines for Selection Process.pdf](#) , [AIA B102 with AZ Modifications.pdf](#) , [AIA B201 with AZ Modifications.pdf](#) , [AIA B201Exhibit A with AZ Modifications.pdf](#) , [AIA B201Exhibit B with AZ Modifications.pdf](#) , [2015 COOP Agreement revised Oct 09 2015.pdf](#) , [Attachment I- Firms General Qualifications Response Form.docx](#) , [Attachment II -Firms Qualifications Disciplines Response Form.xlsx](#) , [Attachment III - Firms Qualifications Experience Categories Response Form.xls](#) , [SPO Form 204 - Confidentiality and Trade Secrets \(rev 10-2014\).pdf](#) , [Offer Acceptance Form.pdf](#) , [RFQ-Professional Services 2016-1.pdf](#) , [Commodity Codes Used.xlsx](#)

**Form Attachments:**

**Bid Method:** Request for Qualifications

Item Information

**Item # 1: ( 906 - 07 )** To satisfy ProcureAZ functionality, Submitters shall include a unit price of \$1.00 in Line Item 1. In the absence of pricing, ProcureAZ will mark the Statement of Qualifications as a "NO BID".

NIGP Code: 906-07

Architect Services, Professional

Qty	Unit Cost	UOM	Total Discount Amt.	Tax Rate	Tax Amount	Total Cost
1.0	\$ 1 . 00	EA - Each				\$ 1 . 00
Manufacturer: Brand: Model:						
Make: Packaging:						
Counties Requiring Service:						

Exit



December 15, 2015

Mr. Michael J. DenBleyker, PE, LEED AP  
Arizona Department of Transportation  
Engineering Consultants Section  
205 S. 17<sup>th</sup> Avenue  
Phoenix, AZ 85007-3213

Planning

Engineering

Surveying

**RE: 2016-2017 Consultant Pre-Qualification (RFQ #ADSP016-00005912)**

Dear Mr. DenBleyker,

URBAN ENGINEERING (U/E) is pleased to submit our Pre-Qualification Package for professional engineering and surveying services.

I, Forrest L. Metz, certify that all statements and supporting documentation submitted in this application package are true and correct to the best of my knowledge as of the date of this submittal and include all material information necessary to identify and explain the operations of Urban Engineering, Inc. I hereby authorize and request any person, agency or firm to furnish any pertinent information requested by the Arizona Department of Transportation deemed necessary to verify the statements made in this application. This certification constitutes a material representation. Any misrepresentation will be grounds for denying or revoking prequalification and for initiating action under federal or state laws concerning false statements.

As an officer of this firm, or pursuant to the attached letter of authorization, I am duly authorized to certify the information requested herein;

Urban Engineering, Inc. shall comply with all state and federal equal opportunity and nondiscrimination requirements and conditions of employment in accordance with A.R.S. Title 41 Chapter 9, Article 4 and Executive Order No. 99-4 dated March 26, 1999.

Per FHWA Order 2000.2A, neither URBAN ENGINEERING nor any of its Principals have any FHWA suspension/debarment actions, ineligibility, voluntary exclusion and convictions and/or civil judgments per FHWA Order 2000.2A: Nonprocurement suspension and debarment process; past or pending.

URBAN ENGINEERING employs a project team of highly-qualified engineering professionals, surveyors and support personnel to provide various professional services. Please refer to supportive information provided with this submittal for more details regarding Urban Engineering's firm experience and qualifications. Urban Engineering, Inc. and our professional team are in good standing with the Arizona Board of Technical Registration.

Our current insurance coverage meets or exceeds the requirements as listed in the Request of Qualifications. Thank you and we appreciate your consideration.

Sincerely,

URBAN ENGINEERING, INC.

A handwritten signature in blue ink, appearing to read 'Forrest L. Metz', written over a blue ink scribble.

Forrest L. Metz  
President

877 S. Alvernon Way

Tucson, AZ 85711

Phone 520.318.3800

FAX 520.318.3808



ATTACHMENT I – General Qualifications

ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:  
ADSP016-00005912

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

**DEFINITIONS**

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

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

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

**Firm:** Defined in ARS § 32-101(B.19.).

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

**SPECIFIC INSTRUCTIONS:**

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



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



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Phoenix, Arizona 85007

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

List of Disciplines (Function Codes) for Question 2

Table with 3 columns listing various engineering and professional disciplines such as Aeronautical Engineer, Environmental Engineer, Mining Engineer, etc.

List of Experience Categories (Profile Codes for Question 3)

Table with 2 columns listing various experience categories such as Acoustics, Noise Abatement, Dams (Concrete; Arch), etc.



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

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



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

1. Annual Request for Qualifications

a. FIRM (OR BRANCH OFFICE ) NAME:	URBAN ENGINEERING, INC.
b. FIRM (OR BRANCH OFFICE) STREET:	877 S. ALVERNON WAY #200
c. FIRM (OR BRANCH OFFICE) CITY:	TUCSON
d. FIRM (OR BRANCH OFFICE) STATE:	ARIZONA
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85711

f. YEAR ESTABLISHED:	1974
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(g1). OWNERSHIP - TYPE:	CORPORATION
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	DBE and SBA

h. POINT OF CONTACT NAME AND TITLE:	FORREST L. METZ, PRESIDENT
i. POINT OF CONTACT TELEPHONE NUMBER:	(520) 318-3800
j. POINT OF CONTACT E-MAIL ADDRESS:	FMETZ@URBANENGINEERING.COM

k. NAME OF FIRM (If block 1a is a branch office):	
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**3. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST YEAR**

a. Approximate No. of Projects	b. Experience	c. Revenue Index Number (see below)
3	Area Master Planning	2
1	Construction Management	1
9	Construction Surveying	1
3	Cost Estimating	1
3	Geodetic Surveying: Ground and Airborne	1
4	Highways: Streets, Airfield Paving, Parking Lots	1
30	Land Surveying	2
4	Surveying: Platting: Mapping: Flood Plain Studies	1
10	Topographic Surveying and Mapping	1
2	Water Resources: Hydrology: Ground Water	1
2	Urban Renewals: Community Development	1
3	Zoning: Land Use Studies	1

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

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



**ATTACHMENT I – General Qualifications**  
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**Phoenix, Arizona 85007**

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

a. NAME <b>Forrest L. Metz</b>	b. ROLE IN THIS CONTRACT <b>President / Project Principal</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>47</b>	2. WITH CURRENT FIRM <b>41</b>
d. LOCATION (City and State) <b>Urban Engineering, Inc. 877 S. Alvernon Way, Tucson, AZ 85711</b>			
e. EDUCATION (Degree and Specialization) <b>Bachelor of Science Degree, University of Arizona Graduate Studies, Planning and Engineering</b>		f. PROFESSIONAL TRAINING - REGISTRATIONS <b>American Planning Association (APA) Urban Land Institute (ULI)</b>	

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

Mr. Metz is the president and co-founder of URBAN ENGINEERING, INC., a civil engineering, land surveying, and land planning consulting firm that specializes in private and public works projects for over 40 years. Mr. Metz directs the firm's daily operations and oversees all departments including professional, technical and clerical staff. With 47 years of experience in the civil engineering profession he has the expertise to ensure that engineering design projects fulfill the necessary requirements and meet the specified criteria. Mr. Metz has an effective Quality Control Plan and will use guidelines and tracking methods tailored specifically for the projects in efforts to monitor all tasks including design criteria, calculations, drawings, specifications, design review, project closure, document control and document retention.

Mr. Metz provides quality assurance for all Urban Engineering projects.

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION (City and State) <b>RANCHO VERDAD MASTER PLAN, Marana, AZ</b>	(2) YEAR COMPLETED	
		Professional Services On-Going	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Prime consultant to True Properties. 2,000 Acre Subdivision. Boundary Survey, Aerial Ground Control, Topographic Mapping, ALTA Survey, Preliminary Hydrology, Master Plan and Annexation into the Town of Marana, and consultant coordination.	X	Check if project performed with current firm.
2.	(1) TITLE AND LOCATION (City and State) <b>RAIL X RANCH HILLS SUBDIVISION, Patagonia, AZ</b>	(2) YEAR COMPLETED	
		Professional Services On-Going	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As project principal over this 3,000 acre subdivision, Mr. Metz oversees all planning, engineering and roadway construction including access roads onto State Highway 82.	X	Check if project performed with current firm.
3.	(1) TITLE AND LOCATION (City and State) <b>TUCSON COUNTY CLUB ESTATES, Tucson, AZ</b>	(2) YEAR COMPLETED	
		Professional Services 2000	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Metz directed all necessary survey and design required to prepare plans and specifications for reconstruction and upgrade of 4 miles of residential and collector streets. Work including parking lot design for gat entrance, roadway marking design, all construction management necessary for completion of the project, including water, sewer, reclaimed water and storm sewer.	X	Check if project performed with current firm.
4.	(1) TITLE AND LOCATION (City and State) <b>TUCSON SECTOR - DOUGLAS STATION PRIMARY BORDER BARRIER FENCE; Douglas, AZ</b>	(2) YEAR COMPLETED	
		Professional Services 2009	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Metz provided quality control over Border Fence and Border Roadway Design for two miles along the International Border. Services including Hydrology Analysis, Drainage Report, Design Analysis Report, Plan and Profile for Roadway Design, Roadway Cross-Section Design Sheets, Structural Fence Design and survey services to set rebar along the border.	X	Check if project performed with current firm.
5.	(1) TITLE AND LOCATION (City and State) <b>SAGUARO RESERVE SITE PLAN AND ENTITLEMENTS, Marana, AZ</b>	(2) YEAR COMPLETED	
		Professional Services On-Going	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This project entails the design of a 70-unit residential neighborhood on a 36 acre site that includes significant scenic resources, rock outcrops and mountain views. Approvals for a Plan Amendment, zoning, and subdivision plat are in progress.	X	Check if project performed with current firm.



**ATTACHMENT I – General Qualifications**

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ADSP016-00005912**

**STATE PROCUREMENT OFFICE  
Department of Administration  
100 North 15<sup>th</sup> Avenue, Suite 201  
Phoenix, Arizona 85007**

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

a. NAME <b>Louis P. De Prisco, RLS</b>	b. ROLE IN THIS CONTRACT <b>Project Manager - Survey</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>51</b>	2. WITH CURRENT FIRM <b>25</b>

d. LOCATION (City and State)

**Urban Engineering, Inc. 877 S. Alvernon Way, Tucson, AZ 85711**

e. EDUCATION (Degree and Specialization)

**Surveying & Mapping, International Correspondence Schools  
Construction Technology, Farmingdale University**

f. PROFESSIONAL TRAINING - REGISTRATIONS

**Registered Land Surveyor, Arizona License #14172**

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

Louis joined Urban Engineering 24 years ago and for the past 17 years he has been Director of Surveys. He oversees all project work completed by survey personnel, handles all contractual matters and is the direct client contact. During the course of his career, Louis has performed and/or managed all varieties of surveys including engineering design, boundary, as-built and ALTA, right-of-way, topographic, and construction control and layout. He is attentive to the details which affect the future design of a project.

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>VARIOUS INTERNATIONAL BORDER PROJECTS; Douglas, Naco, Sonoita, Nogales and Tohono O'odham Nation</b>	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/>	Check if project performed with current firm.
Sub-Consultant to Michael Baker Jr., Inc. Director of Survey for crews providing over 75 projects in collaboration with the U.S. Border Patrol, the U.S. Department of Homeland Security, and the Tohono O'odham Nation to provide survey services consisting of Boundary Surveys, Topographical Surveys, As-Built Surveys, Aerial Ground Control, Construction Staking, establishing the International Border, cross sections, layout for fencing and survey data for roadway design and establishing survey control in tunnels for future designs along the Arizona/Mexico International Border from the New Mexico border to the western border of the Tohono O'odham Reservation.			
2.	<b>CITY OF TUCSON ON-CALL MISC. SURVEY SERVICES; Tucson, Az</b>	On-Going	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/>	Check if project performed with current firm.
Prime Consultant to City of Tucson Survey Department. Director of Survey for crews providing On-Call Survey Services to the City of Tucson for over ten consecutive years. Recently prepared over 40 legal descriptions and sketches for right-of-way takings & easements.			
3.	<b>PIIMA COUNTY ON-CALL MISC. SURVEY SERVICES; Pima County, Az</b>	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/>	Check if project performed with current firm.
Prime Consultant to Pima County. ALTA Surveys and Construction Staking for Roadway Improvements and Realignment. <b>Tanque Verde Road – Catalina Highway to Houghton Rd; Camino Loma Alta Roadway Realignment; La Canada Rd – Magee Road to Calle Concordia</b>			
4.	<b>HOUGHTON ROAD – BROADWAY BLVD TO 22<sup>ND</sup> STREET; Tucson, Az</b>	On-Going	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/>	Check if project performed with current firm.
Sub Consultant to Parsons Brinckerhoff. Director of Survey for Design Survey for As-Built Topographic Survey including all side streets and driveways as well as a existing and proposed right-of-way plans.			
5.	<b>VARIOUS AIRPORTS THROUGHOUT ARIZONA</b>	On-Going	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/>	Check if project performed with current firm.
Horizontal and vertical control for design at various airports; establishing State Plane on NAD83 and NAVD88; ALTA Surveys; Cross-sections and As-Built Survey for runways, taxiways, roadways, and parking areas; Right-of-Way Surveys; layout for PAPI installation; Boundary Surveys of airport properties and surrounding areas; Design Surveys for the addition of concrete pavement and aprons; location for jet bridges, foundations, and aircraft parking lanes; Boundary / Topographic Survey; and construction staking for air freight aprons; aerial ground control; legal descriptions for easements and right-of-way for the following airports through Southern Arizona:			



**ATTACHMENT I – General Qualifications**

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100 North 15<sup>th</sup> Avenue, Suite 201  
Phoenix, Arizona 85007**

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

a. NAME <b>William A. Cowie, PE</b>	b. ROLE IN THIS CONTRACT <b>Civil Engineer</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>35</b>	2. WITH CURRENT FIRM <b>4</b>
d. LOCATION (City and State) <b>Urban Engineering, Inc. 877 S. Alvernon Way, Tucson, AZ 85711</b>			
e. EDUCATION (Degree and Specialization) <b>B.S. Civil Engineering – University of Texas</b>		f. PROFESSIONAL TRAINING - REGISTRATIONS <b>Professional Engineer – AZ Registration #11294</b>	

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

Mr. Cowie has over 35 years of professional management experience in the civil engineering / planning profession for both public and private sectors. Bill's experience extends from land acquisitions through build out residential, commercial and industrial projects as well as local, state and federal governmental agencies. Mr. Cowie's planning experience ranges from small intricate commercial / residential sites to large master planned communities.

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>CITY OF TUCSON EASTSIDE SATELLITE FACILITY</b>	2012	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	X	Check if project performed with current firm.
	Sub-Consultant to ABA Architects. Site Analysis and rezoning. As Project Engineer, Bill coordinated with the City of Tucson to determine primary use for zoning determination of a 28 acre parcel from existing SR classification. Site development included preparation of a Hydrology Report, Stormwater Pollution Prevention Plan, Water Distribution Plans for Golf Links Road, Development Plans, On-Site Wastewater Distribution Plans, Grading and Paving Plans.		
2.	<b>CALLE RINCONADO TOWNHOMES and NEW TUCSON UNIT 26 UTILITY AND ROAD IMPROVEMENTS; Vail, Az</b>	On-Going	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	X	Check if project performed with current firm.
	Prime Consultant to M & S Unlimited, LLC. Utility and Roadway Improvements and a Comprehensive Plan Amendment to revise the zoning of the proposed townhomes through Pima County Planning and Zoning. Scheduling and preparation of Neighborhood Meetings / Public Hearings.		
3.	<b>ARRIVACA HISTORICAL SCHOOL SITE</b>	2008	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	X	Check if project performed with current firm.
	Sub-Consultant to Aquitectura. A 3.5 acre park site located within the historical school site. As Project Engineer, Bill was responsible for new parking (avoiding all trees), Water Distribution Plan, Grading Plan, Hydrology and an On-Site Wastewater Distribution System.		
4.	<b>LA MARIPOSA WOODS NORTH SUBDIVISION AND ACCESS ROADWAY; Tucson, Az</b>	On-Going	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	X	Check if project performed with current firm.
	Prepared a Final Plat, Water Distribution Plan, Drainage Report and Stormwater Pollution Prevention Plan for this 29 acre SR Subdivision. The subdivision also required design of an access ramp from Houghton Road to Pima County Standards, private street plans for approx. 1,600' of street for City of Tucson approval and a Private Grading & Paving Plan for Private Access.		
5.	<b>BEAR CANYON OVERLOOK SUBDIVISION</b>	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	X	Check if project performed with current firm.
	<b>BEAR CANYON OVERLOOK LOTS 1-15 (20 ACRES); Tucson</b> - Prepared a Drainage Report for the subdivision per Pima County requirements and process the report for approval. Prepared Preliminary Lot Layout for clients approval. Prepared a Tentative Plat, Lot Grading and Drainage Plans, Street Paving Plans, On-Site Sewer Plans, Pollution Prevention Plan and Final Plat to Pima County Standards. On-Site Water Plans to City of Tucson Standards. Coordinated Utility Plans with various utilities.		



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

a. NAME  <b>Alonso Vidal, PE</b>	b. ROLE IN THIS CONTRACT  <b>Hydraulic Engineering / Hydrologist</b>	c. YEARS EXPERIENCE	
		1. TOTAL  <b>14</b>	2. WITH CURRENT FIRM  <b>1</b>
d. LOCATION (City and State) <b>Urban Engineering, Inc. 877 S. Alvernon Way, Tucson, AZ 85711</b>			
e. EDUCATION (Degree and Specialization) <b>M.S. Civil Engineering – University of Arizona Public Affairs Post Graduate Work – Arizona State University Engineering Materials – National Highway Institute</b>		f. PROFESSIONAL TRAINING - REGISTRATIONS <b>Professional Engineer – AZ Registration #25009</b>	

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

Alonso Vidal has over 20 years of experience in the capacity of project manager, project engineer, construction engineer, scheduler, and field engineer for civil construction, public infrastructure, residential development, mining and environmental projects. This includes design of diversion channels, culverts, and river crossings for industrial clients as well as with the preparation of hydrological and hydraulic studies for land subdivisions, cities and airports. Additionally Mr. Vidal has managed and performed regional hydro-geological recharge and water supply studies. Alonso recently rejoined the Urban Engineering Staff.

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION (City and State) <b>ARMY CORPS OF ENGINEERS – SEVEN OAKS DAM</b>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Hydrological analysis for the design of two cofferdams in conjunction with the construction of a 510 feet tall rock-fill dam. Project included negotiation of 4040 permit changes with the COE and design of related CMP culverts, monitoring of downstream water turbidity and design and construction of turbidity mitigation structures.	Check if project performed with current firm.	
2.	(1) TITLE AND LOCATION (City and State) <b>GOLDCORP – PENASQUITO POLY-METALLIC MINE</b>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Surface Water Control. Detailed analyses of the river diversion options to allow mining of a large open pit mine. Performed detailed hydrological studies to determine runoff and peak flows and performed hydraulic analysis for the design of diversion channels, bridges and culverts. Project included the preparation of construction drawings for channels and related structures. Final design and construction encompasses 10-mile river diversion channel (50-foot base x 15-foot deep) and about 30 miles of other interception and surface water control channels, one bridge and two culverts.	Check if project performed with current firm.	
3.	(1) TITLE AND LOCATION (City and State) <b>KENNECOTT – BINGHAM CANYON</b>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Hydrogeological studies to determine options for groundwater seepage control. Work included geotechnical drilling, sampling, geotechnical and geochemical testing of site soils to determine infiltration rates. Prepared numerical model of seepage and watershed yearly average runoffs.	Check if project performed with current firm.	
4.	(1) TITLE AND LOCATION (City and State) <b>SCHLUMBERGER WATER SERVICES</b>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Engineering Manager and Civil/Geological Engineer in the design of water reservoirs, surface water control facilities including diversion channels, check dams, water impoundments and lift facilities for industry. Projects included dam design, water and leach solution pipelines, pump stations, watershed system water balance studies, storm and runoff analysis, and flood control facilities design.	Check if project performed with current firm.	
3.	(1) TITLE AND LOCATION (City and State) <b>CIVIL ENGINEER / PROJECT MANAGER – URBAN ENGINEERING, INC.</b>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Design of passenger terminal apron and airside improvements for international airport, including construction manager / administrator. Construction management of residential redevelopment.	X	Check if project performed with current firm.



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

a. NAME <b>David Williams, AICP</b>	b. ROLE IN THIS CONTRACT <b>Project Manager - Planner</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>31</b>	2. WITH CURRENT FIRM <b>2</b>
d. LOCATION (City and State) <b>Urban Engineering, Inc. 877 S. Alvernon Way, Tucson, AZ 85711</b>			
e. EDUCATION (Degree and Specialization) <b>M.S. Urban &amp; Regional Planning, U of A 1985</b> <b>B.S. Geography, U of A 1982</b> <b>A.A. Community Planning, Montgomery College, MD 1979</b>		f. PROFESSIONAL TRAINING - REGISTRATIONS <b>American Institute of Certified Planners (AICP)</b> <b>American Planning Association (APA)</b>	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Past President, Arizona Chapter, American Planning Association; APA Annual Conference Chair 2011, 1999; Completed Form Based Codes Institute 2008; Interpersonal and management skills training; Vice President Friends of Planning (501C3 organization).			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION (City and State) <b>RANCHO VERDAD MASTER PLAN, Marana, AZ</b>	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Prime Consultant for True Properties. Mr. Williams is the lead planner for this 1,900 acre planned community in Marana, Az. The site design includes conservation of on-site resources, low impact development principles for drainage and street design and a mixed use town center.	Professional Services On-Going	Construction (if applicable)
		X	Check if project performed with current firm.
2.	(1) TITLE AND LOCATION (City and State) <b>ORO VALLEY GENERAL PLAN UPDATE, Oro Valley, AZ</b>	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The Oro Valley General Plan Update, Your Voice, Our Future, is updating the Town's 13 element master plan to include post-recession strategies to maintain the Town's economic vibrance, conservation initiatives and infrastructure investments. Detailed policy and implementation actions are included to ensure clear direction for present and future Town decision-makers. As General Plan Update project manager, Mr. Williams was responsible for all aspects of the project, specifically: designing the project approach, defining key issues, and leading a management team that included the Town Manager, Department Director, Communications and Planning Staff.	Professional Services 2014	Construction (if applicable)
			Check if project performed with current firm.
3.	(1) TITLE AND LOCATION (City and State) <b>ARIZONA STATE LAND DEPT. – TUCSON SOUTHLAND CONCEPTUAL PLANNING STUDY, Tucson, AZ</b>	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Williams managed and led design efforts for this project including land use planning and GIS data layer creation for 47,000 ac. of State owned land on the south side of Tucson. 84 GIS data layers were completed. The project included population and employment projects, and future land use absorption analysis, along with land use alternatives and a final preferred master plan. Project coordination included the City of Tucson, Pima County, Tucson Airport Authority, and Pima Assoc. of Governments.	Professional Services 2001	Construction (if applicable)
			Check if project performed with current firm.
4.	(1) TITLE AND LOCATION (City and State) <b>PEORIA CONCEPTUAL PLANNING FOR ARIZONA STATE LAND DEPT., Peoria AZ</b>	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Williams managed this 50,000 acre project which included the preparation of GIS data layers to ASLD specification, alternative and preferred plan preparation, land use absorption studies, population and land use projections, presentation to State Land Commissioner and Oversight Committee, and extensive meetings with agencies and jurisdictions including Peoria, Phoenix, Surprise, Maricopa Cty and MAG. This extensive project had a short time frame (4 months) and was completed on time and within the budget.	Professional Services 2000	Construction (if applicable)
			Check if project performed with current firm.
5.	(1) TITLE AND LOCATION (City and State) <b>CITY OF SAN LUIS GENERAL PLAN UPDATE</b>	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Williams partnered with the WLB Group and the City of San Luis to prepare a General Plan Update for the community that consisted of 14 elements. The work involved the creation of new land use designations and the re-designation of all lands located within an expanded planning area of San Luis, while protecting the important agricultural areas of the City. This update included an intensive public participation program which involved three community workshops and monthly meetings with a stakeholder group and the Planning and Zoning Commission.	Professional Services 2011	Construction (if applicable)
			Check if project performed with current firm.



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

a. NAME <b>Patricia Gajda</b>	b. ROLE IN THIS CONTRACT <b>Geodetic Surveyor</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>11</b>	2. WITH CURRENT FIRM <b>1</b>
d. LOCATION (City and State) <b>Urban Engineering, Inc. 877 S. Alvernon Way, Tucson, AZ 85711</b>			
e. EDUCATION (Degree and Specialization) <b>Bachelor of Science, Surveying Engineering, California State University, Fresno</b>		f. PROFESSIONAL TRAINING - REGISTRATIONS <b>Registered Land Surveyor, AZ License #46278 Registered Land Surveyor, NV License #16812</b>	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Over 11 years of professional experience related to land surveying and right-of-way services. Provided leadership, design, research, easement and land acquisition and project management for those disciplines. Patricia has extensive experience interfacing between property owners, legal entities and governmental agencies for land acquisition and utility line design and placement. She has experience in the preparation and submittal of applications to such agencies as the Bureau of Land Management, Arizona State Land Department, Bureau of Reclamation, US Navy, US Army Corps of Engineers and the Bureau of Indian Affairs.			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	<b>Vail-Valencia Transmission Line (Tucson, Arizona)</b>	2013	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Construction staking of a 29-mile power line to service Nogales from Tucson. This line was done for Tucson Electric Power (TEP), and completed to their specifications. The coordinate system was based on Arizona state plane grid data. Tasks included localizing both vertically and horizontally, staking easements, rough grade and pad limits, final staking and referencing of poles to TEP standards.		
b.	<b>Pima Mine Road and Nogales Highway Right of Way Analysis (Sahuarita, Arizona)</b>	2013	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm The Central Arizona Water project proposed to build a large diameter water transmission line to these roads near the Town of Sahuarita, Arizona. The proposed water plans and the rights of way of about 7 miles of these roads were analyzed to determine if the proposed line was correctly located within the rights-of-way.		
c.	<b>Houghton Road Underground Feeder and Distribution Projects Ph. I &amp; II (Tucson, Arizona)</b>	2013	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Provided construction staking services to TEP for the relocation of 6 miles of overhead line in advance of the reconstruction of Houghton Road in Tucson, Arizona. The new lines were to be installed under the proposed road, and the underground plans had been created before the final road plans for Houghton were complete.		
d.	<b>Canoa Ranch Bore Under I-19 (Green Valley, Arizona)</b>	2013	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Performed construction staking services for TEP on the 730' long bore under I-19 south of Green Valley. ADOT was concerned that the bore would compromise the integrity of the interstate. Part of our scope was to monitor the asphalt for movement. Field crews obtained x, y, and z coordinates on the edges of the existing asphalt on a daily basis for approximately 3 months.		
e.	<b>Houghton Road Underground Feeder Construction Staking (Tucson, Arizona)</b>	2013	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm The construction staking for this project consisted of burying 1.5 miles of conduit prior to the new road construction. Right-of-way and new easements were also defined.		



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a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
		1. TOTAL	2. WITH CURRENT FIRM
David L. Sutherland, RLS	Geodetic Surveyor	31	3

d. LOCATION (City and State)

Urban Engineering, Inc. 877 S. Alvernon Way, Tucson, AZ 85711

e. EDUCATION (Degree and Specialization)  
Surveyor of the Year APLS 2004 and 2007

f. PROFESSIONAL TRAINING - REGISTRATIONS  
Registered Land Surveyor, AZ License #30365

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

A recent addition to the Urban Engineering Survey Team, David has 31 years of progressive and substantive experience. His proven leadership ability in positions of responsible charge characterized by high motivation, attention to detail, and excellent organizational skills. He has highly advanced knowledge of Global Navigation Satellite System (GNSS) technology in a wide range of survey and mapping applications. David is proficient with most optical total station systems and has performed and supervised numerous types of surveys, including public land cadastral, property boundary, geodetic control, topographic, construction staking, and underground surveys. David's experience includes 7 years in the position of the Cochise County Surveyor responsible for all county survey operations over a 65,000 miles area.

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>DEER VALLEY MUNICIPAL AIRPORT;</b> Phoenix	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	X	Check if project performed with current firm.
	Sub-Consultant to Woolpert, Inc. Photo ID Ground Control. Provided survey control tied to the primary airport control Station (PACS). Set approximately 30 points with at least two photos of each point.		
2.	<b>ADOT MISCELLANEOUS SURVEY SERVICES;</b> Various	On-Going	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	X	Check if project performed with current firm.
	Sub-Consultant to HDR Engineering, Inc. <b>ADOT Task #3 Hell Canyon; Ash Fork</b> - Located section corners.		
3.	<b>ADOT – SR 85 MARIPOSA PORT OF ENTRY TRUCK WEIGH FACILITY;</b> Mariposa	2013	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	X	Check if project performed with current firm.
	Sub-Consultant to Hensel Phelps Inc. for the U.S. Department of Homeland Security and the U.S. Customs and Border Patrol. Provided calculations and supervision for the construction staking of a new weight station.		
4.	<b>ORGAN PIPE CACTUS NAT. MONUMENT – POZO NUEVO RD AND ACCESS ROADS TUCSON SECTION AJO STATION OPTION 1;</b> Ajo, AZ	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	X	Check if project performed with current firm.
	Sub-Consultant to Michael Baker Jr., Inc for the US Department of Homeland Security and the US Customs and Border Patrol. Construction Staking for 1.3 miles of access road at 250' intervals..		
5.	<b>HOUGHTON ROAD – BROADWAY BLVD TO 22<sup>ND</sup> STREET SUPPLEMENTAL SURVEY;</b> Tucson.	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	X	Check if project performed with current firm.
	Sub-Consultant to Parsons Brinckerhoff for the City of Tucson. Topographic Survey. Provided topo for three additional areas to be included within the original contract for an As-built Topographic survey for side streets and driveways along Houghton Road		
6.	<b>NOGALES INTERNATIONAL AIRPORT APRON RECONSTRUCTION;</b> Nogales	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	X	Check if project performed with current firm.
	Subconsultant to C & S Engineering. Provided a topographical survey for apron reconstruction. Located all above ground improvements and utilities and face of existing buildings and finish floor elevations.		



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a. NAME <b>Richard Farwell, RLS</b>	b. ROLE IN THIS CONTRACT <b>CADD Technician</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>23</b>	2. WITH CURRENT FIRM <b>3</b>
d. LOCATION (City and State) <b>Urban Engineering, Inc. 877 S. Alvernon Way, Tucson, AZ 85711</b>			
e. EDUCATION (Degree and Specialization) <b>B.A. History, Western State College</b> <b>M.A. Physical Education, Northeast Missouri State</b> <b>Computer Network Administration University of Phoenix</b>		f. PROFESSIONAL TRAINING - REGISTRATIONS <b>Registered Land Surveyor, AZ License #31592</b>	

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

Rick has 23 years experience as a registered land surveyor and CAD technician in Arizona and Colorado. After an honorable discharge from the US Navy in 1974, Rich applied his skills in AutoCAD, LLD, and Softdesk along with various engineering related software programs including Civil 3D. For the past three years, Rick has performed calculations and produced drawings for U/E's Civil and Survey Department and when necessary performed in the field as a party chief.

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>TANQUE VERDE RD – Catalina Highway to Houghton Road; Pima County</b>	2011	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Prime Consultant. Pima County Department of Transportation. Rick performed as an as-needed survey crew chief providing construction staking and provided all calculations and CAD drawings required for the Topographic Survey, Horizontal and Vertical Control, Record of Survey for the proposed improvements including widening the roadway to four lanes with raised medians, multi-use lanes, curbs, sidewalks, drainage improvements, storm drains and landscaping	X	Check if project performed with current firm.
2.	<b>CITY OF TUCSON ON-CALL MISC. SURVEY SERVICES; Tucson</b>	On-Going	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Consultant to City of Tucson Survey Department and the Regional Transportation Authority. As a Survey Technician and CAD Technician, Rick provided all calculations and drawings for Records of Surveys, Right-of-Way, Boundary Surveys, Topographic Surveys and Legal Description Exhibits for the following: <i>Houghton Rd – Broadway to 22<sup>nd</sup> Street • Broadway Blvd / Houghton Rd Park N Ride • Regional Transportation Authority Various Bus Pull Outs</i> within the City of Tucson • <i>Valencia Road – Cardinal Ave to Westover</i> Temporary Const. Easement • <i>5<sup>th</sup> Street &amp; Alvernon</i> ROW Acquisition • <i>Simpson Greenway Park</i> and the <i>South Yard Drill Track</i> ALTA Survey.	X	Check if project performed with current firm.
3.	<b>PIMA COUNTY ON-CALL MISCELLANEOUS SURVEY SERVICES Pima County</b>	2012	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Prime Consultant to Pima County Department of Transportation. Rick provided all calculations and drawings for the <i>Esmond Station</i> and the <i>ADOT Tortolita Mountain Park</i> ALTA Survey and a Record of Survey for the <i>Camino Loma Alta Realignment Project</i> .	X	Check if project performed with current firm.
4.	<b>ARIZONA / MEXICO US INTERNATIONAL BORDER; . Nogales, AZ</b>	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Sub-Consultant to Michael Baker Jr., Inc. for the U.S. Department of Homeland Security and the U.S. Customs and Border Patrol. Zone 20 All Weather Road Phase I. Rick provided calculations and drawings to provide construction staking.	X	Check if project performed with current firm.
5.	<b>HUGHES ACCESS ROAD - Valencia Road to Old Nogales Hwy; Tucson.</b>	2011	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Sub-Consultant to AECOM. Established section corners along Hughes Access Road from Valencia Road to Old Nogales Highway. Prepared a map showing all monumentation. Cross sectioned the road at 50' intervals, 75' each side of the centerline. Located all power poles and box culverts. Shots were taken on both edges of roadway and centerline. Prepared a Topographic Map covering 3.5 miles	X	Check if project performed with current firm.



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**Department of Administration**  
**100 North 15<sup>th</sup> Avenue, Suite 201**  
**Phoenix, Arizona 85007**

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

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

a. TITLE AND LOCATION <i>(City and State)</i>  <b>ARIZONA – MEXICO INTERNATIONAL BORDER ON-CALL PROJECTS</b>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2001 - 2014	CONSTRUCTION <i>(If applicable)</i>

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER  U.S. Army Corps of Engineering  U.S. Dept. of Homeland Security and the U.S. Customs and Border Patrol	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

**ARMY CORPS OF ENGINEERS – TUCSON SECTOR DOUGLAS STATION - PRIMARY BORDER BARRIER FENCE AND ROADWAY**

Design of approximately one mile of border fencing and border roadway along the Arizona / Mexico International Border. A Drainage Report was prepared along with a Hydrology Analysis (including a HEC study for 4,500 cfs), Design Analysis Report, Plan and Profile for roadway design, roadway cross section design sheets and structural border barrier fence design. Urban's survey crew established the International Border in preparation of the border fencing and roadway and provided cross sections for plan and profile.

**U.S. DEPARTMENT OF HOMELAND SECURITY AND THE U.S. CUSTOMS AND BORDER PATROL PROJECTS**

**REMOTE VIDEO SURVEILLANCE SYSTEMS NEW TOWER CONSTRUCTION: Naco & Douglas.** Topographic Survey of 3 sites within CBP Naco Station and 3 sites within CBP Douglas Station and related access roads for improvement including detailed existing vegetation, trees, fences, right-of-way easements, gate locations, cattle guards, culverts, bridges, changes in slope or cross sections, existing roadways, trails, utilities, access points and other features. Survey Crews captured ground shots within the site limits to generate a 1' contour interval mapping and provided a list of control point coordinates.

**ZONE 20 ALL WEATHER ROADWAY PHASES I, II and III; Douglas.** Provided surveying support prior to and during the scheduled deployments for proposed roadways, low water crossings and CMP culverts. Verified vertical and horizontal control. Established northing, easting for each point with a 1/2" rebar. Located all existing border monuments and section corners to establish the International Border. Provided elevations along the centerline and cross sections each side of the construction centerline and various drainage crossings. Located all above ground improvements and utilities. Staked out limits of clearing and four laydown areas and two landing zones for med-evac. Placed construction cut stakes twice during each deployments. Placed bluetop final grade elevations for each deployment. Supervised military survey crew and coordinated survey activities with general contractor and other subconsultants.

**ORGAN PIPE CACTUS NATIONAL MONUMENT - POZO NUEVO ROAD and TOWER NO. 3 ACCESS ROADS TUCSON SECTOR AJO STATION; Ajo, AZ** Aerial ground control for road improvements southeast of Ajo, on Pozo Nuevo Road between Camino Del Diablo and the International Border. Established vertical and horizontal control. Set 1/2" rebar every 1500' for 8 miles. Set approx. 50 panels. Provided aerial company with a drawing showing the location of each panel, x, y and z provided. Set 60d nails at approx. 150' intervals for 3 miles of proposed roadway to be reviewed by Forest Service and engineer at Michael Baker Jr. On-site RLS for construction management.



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

a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>
<b>CITY OF TUCSON ON-CALL MISC. SURVEY SERVICES</b>	<b>On-Going</b>	

**23. PROJECT OWNER’S INFORMATION**

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
City Of Tucson Dot Survey Dept. 201 N. Stone Avenue, Tucson, AZ 85701  PB AMERICAS, INC. 177 N. Church Avenue, Tucson, AZ 85701  AECOM 1860 E. River Rd, Ste 300, Tucson, AZ 85718		

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

Urban Engineering is currently under contract with the City of Tucson for On-Call Survey Services. During the past ten years as a prime consultant to the City of Tucson, Urban Engineering, Inc. has also completed projects as a sub-consultant to PB Americas and AECOM for the City of Tucson. The list of project completed by Urban Engineering, Inc during this time is extensive. The most recent projects are listed below.

- **Downtown Intermodal Center Pedestrian Safety And Bus Access Improvements (PB)** Located existing property, right-of-way and centerline monumentation using GPS RTK methodology. A topographic survey was performed including sidewalks, curb access ramp limits, existing property pins, existing drainage structures, driveway openings, water valves, meter boxes, street lights, parking meters, curb gutter, top of back of curb, driveway openings, sign and sign legend, traffic signal poles, manholes, existing landscaping, fences and all above ground utility features.
- **Houghton Road / Broadway Boulevard Intersection Improvements (COT & PB)**- Pin the new Right-of-Way and set missing right-of-way pins on all changes of direction of the existing right-of-way not altered by the new right-of-way. Revise the Right-of-Way Survey. Preparation of approximately 48 legal descriptions and sketches for construction easements, slope easements and right-of-way acquisitions.
- **El Paso Southwestern Greenway and South Yard Drill Track Block Plat (COT)**– ALTA/ACSM Survey.
- **Avondale & Barrio Central Neighborhood Lighting (COT)** – Established survey control and provided survey calculations.
- **Rita Road – 1-10 Intersection to UPRR Track & Pelican Crossing (AECOM)** – Survey Control. Located existing monumentation along Rita Road centerline and any existing property corners. Provided elevations and cross sections along centerline – right-of-way to right-of-way. Located all above ground improvements and utilities (including overhead wires). Provided Survey Control Drawing and As-Built Topographic Drawing.
- **Starr Pass / Mission Road Intersection (COT)** – Record of Survey, Survey Control and pinned new Right-of-Way
- **Houghton Road – Speedway Blvd to Spanish Trail (PB)** – Design Survey. Established survey control. Located existing property, right-of-way and centerline monumentation. Set benchmarks. Performed As-Built Surveys. Located potholes. Established additional topo for drainage area, washes and existing bridge.
- **Hughes Access Road – Valencia Road to Old Nogales Highway (AECOM)** - Established section corners for 3.5 miles along Hughes Access Road. Located all existing monumentation. Cross sectioned roadway, located all power poles and box culverts.
- **RTA Bus Pullout Locations (COT)** – Construction staking and calculations within the City of Tucson
- **Broadway Boulevard / Houghton Road Park N Ride (PB)** – Verified existing and provided additional survey control and set panel points for aerial ground control. Performed a Boundary Survey locating and verifying existing property corners, walls and existing roadways and easements. Provided additional topo for drainage ditch, sanitary sewer manholes and detention basins.



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

a. TITLE AND LOCATION (City and State)	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
<b>ADOT / PIMA COUNTY ON-CALL MISC. SURVEY SERVICES</b>	<b>2009 – Ongoing</b>	

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
PIMA COUNTY DOT SURVEY DIVISION 1313 S. Mission Road, Tucson, AZ 85713  PIMA CTY PUBLIC WORKS REAL PROPERTY 201 N. Stone Avenue, Tucson, AZ 85701  ADOT / HDR Engineering, Inc. 5210 E Williams Cir, Tucson, AZ 85711		

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

**ADOT LAND-ESMOND STATION PARCEL;** Pima County. ALTA/ACSM Survey. Research existing surveys and section corners. Provided a preliminary boundary survey and an ALTA / ACSM survey with legal description. Set 1/2" rebar at each property corner.

**ADOT LAND-TORTOLITA MOUNTAIN PARK;** Pima County. ALTA/ACSM Survey. Located section and quarter corners for 4 sections. Calculated the boundaries and verified or set 1/2" iron pin with RLS tags for the corners of three parcels. Located all above ground improvements and utilities. Prepared three ALTA drawings.

**CAMINO LOMA ALTA - VIA RANCHO DEL LAGO TO VIA SEDAN DRIVE ROADWAY REALIGNMENT PROJECT;** Vail, AZ. Realignment and reconstruction of 0.93 miles (4,926') of Camino Loma Alta to include dedicated left-turn lanes and right-turn lanes at intersection streets, the extension of Rex Molly Road and San Esteban Drive to the realigned Camino Loma Alta, four reinforced concrete pipe drainage crossings, the addition of bike lanes at Via Rancho Del Lago and new signing and pavement markings. Construction Surveying included horizontal and vertical control, slope stakes, underground utilities, structures, easements, and bluetops. Preparation of a Record of Survey. Also provided a Record of Survey for Camino Loma Alta Right-of-Way and Road Proceeding.

**TANQUE VERDE ROAD—CATALINA HIGHWAY TO HOUGHTON ROAD;** Tucson, AZ. Construction Staking including horizontal and vertical control and a Topographic Survey for the proposed improvements include widening Tanque Verde Road to four lanes of traffic with raised medians, multi-use lanes, curbs, sidewalks, drainage improvements, storm drains, landscaping and public art.

**ADOT ON-CALL MISC. SURVEY SERVICES;** Various. Sub-Consultant to HDR Engineering, Inc. U/E is currently providing on-call survey and autocad services (utilizing Microstation) for **Perkinsville Road** and **Road 4 North**, locating section corners at **Hell Canyon** near Ash Fork in Yavapai County and **SR 77 Pinal County**, and construction staking on **SR 86**.



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

a. TITLE AND LOCATION (City and State)	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
<b>VARIOUS AIRPORTS WITHIN SOUTHERN ARIZONA</b>	<b>2000 – On-Going</b>	

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Dibble Engineering 7500 N. Dreamy Draw Drive, Phoenix, AZ 85020		
Woolpert, Inc. 16427 N. Scottsdale Rd, Scottsdale, AZ 85254		
C & S Companies 9200 E. Pima Center Pkwy, Scottsdale, AZ 85258		

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

Urban Engineering, Inc. has provided survey services including (but were not limited to) the following: horizontal and vertical control for design at various locations (including 1,600' of Aero Park Drive); establishing State Plane on NAD83 and NAVD88; ALTA Surveys; Cross-sections and As-Built Survey for 30,000± feet for runways, taxiways, roadways, and parking areas at TIA; Right-of-Way Surveys; layout for PAPI installation; Boundary Surveys of airport properties and surrounding areas; Design Surveys for the addition of concrete pavement and aprons; location for jet bridges, foundations, and aircraft parking lanes; Boundary / Topographic Survey; and construction staking for air freight aprons; aerial ground control for approximately 655 acres in Clifton/Morenci; legal descriptions for easements and right-of-way for the following airports through Southern Arizona:

Benson Municipal	Ryan Airfield	Tucson International	Bisbee Airport	Greenlee County	Davis Monthan AFB
Mesa Falcon	Cochise County	Nogales International	Eloy Municipal	Pinal Airpark	Casa Grande Municipal
Safford Regional	Winslow-Lindbergh	Eric Marcus Municipal	Sierra Vista Municipal	Marana Regional	Deer Valley

**TIA - Ryan Airfield Runway 6R-24I & Taxiway B2 Reconstruction;** Marana. Subconsultant to Dibble Engineering for Tucson Airport Authority. Survey Control Drawing and As-Built Topographic Survey. Established survey control for Runway 6R overrun and Taxiway B. Provided elevations along the centerline and edge of pavement and an as-built topographic survey along a portion Taxiway B2 including striping and above ground improvements as well as rip-rap spillway to the northwest. Provided elevations along the centerline of pavement, for V striping and for drainage channel and an as-built topographic survey and at Runway 6R overrun.

**Safford Regional Airport Apron Rehabilitation, Reconstruction And Marking Project:** Safford Sub-Consultant to C & S Companies. Topographic Survey. Verified airport survey data and established additional control as needed. Provided grid topo for the area south of Taxiway D. Provided additional elevations west/east also along the edge and centerline for Taxiway D and at existing concrete pads south of the proposed limits. Provided invert elevations for storm drain, electric pull boxes, tiedowns and existing striping. Provided topo and outside limits east of the terminal and located abutting taxiways. Established elevations on adjacent concrete aprons and walks and for gravel area. Located gas tank concrete base, bollards including Taxiway D and each end of Runway 12-30, 8-26. Established bearing and distance for each runway.

**Phoenix Mesa Gateway Airport;** Mesa Sub-Consultant to Woolpert, Inc. Aerial Ground Control. Survey 45 photo-identifiable points to be used as ground control points for aerial mapping of IWA

**Deer Valley Municipal Aiport;** Phoenix - Subconsultant to Woolpert, Inc. Photo ID Ground Control. Provided survey control tied to the primary airport control Station (PACS). Set approximately 30 points with at least two photos of each point.



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

a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
<b>ARIZONA STATE LAND DEPARTMENT</b> <b>GENERAL PLAN UPDATES / ZONING</b>	<b>PROFESSIONAL SERVICES</b> <b>1999 – On-Going</b>	<b>CONSTRUCTION <i>(if applicable)</i></b>

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
ARIZONA STATE LAND DEPARTMENT		\$160,000.00
TOWN OF ORO VALLEY		\$415,000.00
CITY OF SAN LUIS		

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

**ARIZONA STATE LAND DEPARTMENT**

**PEORIA Conceptual Plan (1999)**– David Williams managed this 50,000 acre project which included the preparation of GIS data layers to ASLD specifications, alternative and preferred plan preparation, land use absorption studies, population and land use projections, presentation to State Land Commissioner and Oversight Committee, and extensive meetings with agencies and jurisdictions including Peoria, Phoenix, Surprise, Maricopa County and MAG. This extensive project had a short time frame (4 months) and was completed on time and within the budget.

**TUCSON Conceptual Planning Study (2000)** – Mr. Williams was the lead planner of a multi-disciplinary consultant team for this project. Work included land use planning and GIS data layer creation for 47,000 acres of State owned land on the south side of the City of Tucson. Eighty-four GIS data layers were included on the CD work product delivered to the client. The project includes population and employment projections, future land use absorption analysis, along with land use alternatives and a final preferred master plan. Project coordination included working with the City of Tucson, Pima County, Tucson Airport Authority, and Pima Association of Governments.

**ORO VALLEY GENERAL PLAN UPDATE (2014)** -The Oro Valley General Plan Update, Your Voice, Our Future, is updating the Town's 13 element general plan to include post-recession strategies to maintain the Town's economic vibrance, conservation initiatives and infrastructure investments. Detailed policy and implementation actions are included to ensure clear direction for present and future Town decision-makers. Major milestones include: adoption of the public participation plan, completion of Phase 1, "Listen" (primary public outreach effort), Phase 2, "Let's Think" (Plan drafting) and Phase 3, "Do it, Make it so" (Plan adoption). As General Plan Update project manager, Mr. Williams was responsible for all aspects of the project, specifically: designing the project approach, defining key issues, and leading a management team that included the Town Manager, Department Director, Communications and Planning Staff.

**CITY OF SAN LUIS GENERAL PLAN UPDATE (2011)** – Mr. Williams partnered with the WLB Group and the City of San Luis to prepare a General Plan Update for the community that consisted of 14 elements. The work involved the creation of new land use designations and the re-designation of all lands located within an expanded planning area of San Luis, while protecting the important agricultural areas of the City. This update included an intensive public participation program which involved three community workshops and monthly meetings with a stakeholder group and the Planning and Zoning Commission.



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6. ADDITIONAL INFORMATION

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

**FIRM HISTORY:**

URBAN ENGINEERING INC, (U/E), first established in Tucson in 1974, provides Land Surveying, Professional Engineering, and Planning Services to the Tucson community and throughout Southern Arizona. Professionalism and technical excellence are at the core of Urban Engineering's management philosophy. U/E has established a solid record of accomplishments serving clients in the public and private sectors. While supplying the best services in a timely, cost-effective way, we have been instrumental in the development of many projects throughout Arizona for 41 years. We believe that our people, and their dedication to our clients, have made and will continue to make us successful.

**DBE CERTIFIED and SBE:**

U/E is certified as a Disadvantaged Business Enterprise under Title 49 CFR Part 26 through June 30, 2016 with the AZ Unified Certification Program. This certification provides reciprocity in the DBE program with the Arizona Dept. of Transportation, City of Phoenix, and the City of Tucson in the following fields of work; Civil Engineering, Surveying and Land Planning. U/E is also certified as a Small Business Enterprise and registered with SAM Cage Code #3DD70.

**SURVEY:**

U/E has complete land survey capabilities, utilizing both total station and GPS surveying equipment to provide fast, efficient and accurate survey data. We are proud to note that our Survey Department includes two Registered Land Surveyors. U/E'S survey crews are equipped with TOPCON state of the art survey grade GPS and total stations utilizing Rangers and Recon Data Collector equipment. Field Personnel are supported by Survey Technicians who provide calculations and finished drawings. U/E has performed survey services for all phases of design and construction which include but are not limited too the following; Design Survey, Right-of-Way Services, As-Built Surveys, ALTA Surveys, Aerial Ground Control, Construction Management & Inspections, and Construction Staking.

**ENGINEERING:**

U/E's civil engineers have extensive experience suited to the wide range of civil engineering projects undertaken by the firm. Our capabilities cover diverse challenges including rural and urban roadway design, project feasibility analysis and plan review services. Areas of expertise include but are not limited to: Roadway Analysis & Design, Utility Design & Modifications, Urban Drainage, and Floodplain and Watershed Management. Urban Engineering provides planning services to both public and private clients.

**HYDRAULIC / HYDROLOGIC:**

Urban Engineering, Inc. has an engineering staff with strong backgrounds in hydrology and hydraulics including field analysis, erosion, sedimentation, urban drainage, flood control, and floodplain management. Our Engineers focus on ensuring that the elements not only meet the fundamental project objectives, but recognize opportunities for innovation, effective utilization of limited funding, and environmental and community enhancement. Work is completed with the assistance of advanced computer methodology including use of the Army Corp of Engineers HEC-RAS 4.0 and Flow 2D programs for riverine modeling, graphical HEC-1 for hydrologic watershed modeling, HEC-6T for sediment transport modeling and Haestad design utilities for culvert analysis, open channel flow design, and storm drain sizing.

**LAND PLANNING / DEVELOPMENT:**

U/E has extensive experience designing master planned developments for single-family residential, multi-family and commercial/industrial use. We offer property rezoning, concept plans, platting including tentative and final plats, design documents for grading and drainage, and design of all infrastructure improvements including paving, sewer and water distribution. Site Plan Design includes field survey, preparation of construction documents, drainage analysis and design, on and off-site utilities, roads, parking areas, and cost estimates. Municipal projects have included general plan updates and amendments, area plans, specific plans, zoning code and subdivision regulations. Public participation and meeting facilitation services are offered.



**COMPUTER SYSTEMS:**

U/E’s Computer Network Manager maintains our high-speed network with the latest software technology. Survey Technicians provide calculations and finished drawings using AutoCADD 2015, Carlson 2015, Land Development Desktop and additional Survey/Civil Modules, Ashtec Solutions, DeLorme Quad Maps, Project Management software, Microstation and Microsoft Office products. The Engineering Department utilizes Haestad Methods (StormCAD v 5.0, FlowMaster v 6.1, Culvertmaster v 2.0, WaterCad v 6.0 and Graphical HEC 3.1.3.

Urban Engineering and its registered professionals are current and in good standing with the Arizona State Board of Technical Registration.

<b>Urban Engineering, Inc. Firm Registration</b>	<b>Land Planning Civil Engineering Land Surveying</b>	<b>Registration # 10618-0</b>
<b>Alonso Vidal, PE</b> Hydrology / Hydraulics	Professional Civil Engineer	Registration # 27310
<b>David A. Williams, AICP</b> Vice-President Planning	American Institute of Certified Planners	Certified Planner # 6982 since 1989
<b>William A. Cowie, PE</b> Vice-President Engineering	Professional Civil Engineer	Registration # 11294
<b>Louis P. De Prisco, RLS</b> Vice-President Survey	Registered Land Surveyor	Registration # 14172
<b>Patricia Gajda, RLS</b> Asst. Vice-President Survey	Registered Land Surveyor	AZ Registration # 46278 NV Registration #16812
<b>David L. Sutherland, RLS</b> Survey Crew Chief	Registered Land Surveyor	AZ Registration # 30365

Urban Engineering meets or exceeds the insurance requirements as listing in the Request of Qualifications Solicitation Number ADSP016-00005912. An example of our current insurance certificate has been attached for review.



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

a. Percentage of Total Work Attributable to State, Federal and Municipal Government Work:	70%
b. Percentage of Total Work Attributable to Non-Government Work:	30%

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

Signature: 

Date: 12/15/15

Name: Forrest L. Metz, President

Title: President