



ATTACHMENT I – General Qualifications  
ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:  
ADSP015-00004729

STATE PROCUREMENT OFFICE  
Department of Administration  
100 North 15<sup>th</sup> 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:                 | Western Technologies, Inc.                               |
| b. FIRM (OR BRANCH OFFICE) STREET:                | 3737 East Broadway Road                                  |
| c. FIRM (OR BRANCH OFFICE) CITY:                  | Phoenix  |
| d. FIRM (OR BRANCH OFFICE) STATE:                 | Arizona  |
| e. FIRM (OR BRANCH OFFICE) ZIP CODE:              | 85040  |
| f. YEAR ESTABLISHED:                              | 1955   |
| (g1). OWNERSHIP - TYPE:                           | Corporation  |
| (g2) OWNERSHIP - SMALL BUSINESS STATUS:           | n/a  |
| h. POINT OF CONTACT NAME AND TITLE:               | Randolph H. Marwig, P.E., Vice President                 |
| i. POINT OF CONTACT TELEPHONE NUMBER:             | (602) 437-3737   |
| j. POINT OF CONTACT E-MAIL ADDRESS:               | <a href="mailto:Randy.m@wt-us.com">Randy.m@wt-us.com</a> |
| 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) |
|--------------------------------|---|-------------------------------------|
| 15                             | Airports; Terminals and Hangars; Freight Handling             | 6                                   |
| 4                              | Auditoriums and Theaters                                      | 1                                   |
| 6                              | Bridge Design; Bridges  | 2                                   |
| 150                            | Commercial Buildings (Low Rise); Shopping Centers             | 5                                   |
| 1                              | Dams (Earth Rock); Dikes; Levees                              | 1                                   |
| 8                              | Educational Facilities; Classrooms                            | 2                                   |
| 200                            | Environmental Impact Studies, Assessments of Statements       | 5                                   |
| 1                              | Garages; Vehicle Maintenance Facilities; Parking              | 1                                   |
| 150                            | Highways; Streets; Airfield Paving; Parking Lots              | 7                                   |
| 4                              | Hospital and Medical Facilities                               | 2                                   |
| 2                              | Hotels; Motels  | 1                                   |
| 100                            | Housing (Residential, Multi-Family; Apartments, Condominiums) | 5                                   |
| 2                              | Judicial and Courtroom Facilities                             | 1                                   |
| 150                            | Office Buildings; Industrial Parks                            | 6                                   |
| 2                              | Prisons and Correctional Facilities                           | 1                                   |
| 250                            | Soils and Geologic Studies; Foundations                       | 5                                   |
| 600                            | Testing and Inspection Services                               | 8                                   |

**PROFESSIONAL SERVICES REVENUE INDEX NUMBER**

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



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

|  |   |  |                            |
|--|---|--|----------------------------|
| a. NAME<br>Vicky L. Aviles, AEP, CIAQM.  | b. ROLE IN THIS CONTRACT<br>Project Manager<br>Environmental Services | c. YEARS EXPERIENCE                      |                            |
|  |   | 1. TOTAL<br>32                           | 2. WITH CURRENT FIRM<br>15 |
| d. LOCATION <i>(City and State)</i><br>Western Technologies, Inc., Phoenix, Arizona  |   |  |                            |
| e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i><br>Rio Salado College – Environmental Studies  |   | f. PROFESSIONAL TRAINING - REGISTRATIONS |                            |
| g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i><br>EPA Approved Asbestos Inspector, EPA Approved Asbestos Management Planner, EPA Approved Contractor Supervisor, EPA Approved Asbestos Project Designer, EPA Certified Lead-Based Paint Inspector/Risk Assessor, EPA Certified Lead-Based Paint Designer, EPA Certified Contractor Supervisor, EPA Certified Lead Renovator, American Council for Accredited Certification – Council Certified Indoor Environmental Supervisor (CIFS) |   |  |                            |

**H. RELEVANT PROJECTS**

|    |  |  |
|----|--|--|
| 1. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Asbestos Surveys and Lead Based Paint Inspections, Various Structures<br>Phoenix, Arizona  | (2) YEAR COMPLETED   |
|    |  | Professional Services<br>Construction (if applicable)                            |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Manager for numerous pre-demolition asbestos and lead-based paint surveys on various City of Phoenix residential and commercial structures.  | <input checked="" type="checkbox"/> Check if project performed with current firm |
| 2. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Comprehensive Asbestos Inspection of Residential Structures, Aviation Dept.<br>Phoenix, Arizona  | (2) YEAR COMPLETED   |
|    |  | Professional Services<br>2012<br>Construction (if applicable)                    |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Project Manager for pre-demolition asbestos survey in support of airport expansion at Phoenix Sky Harbor International Airport. Evaluated a total of nine structures, including the identification of homogeneous areas, quantification of materials, sampling collection and documentation, and report writing. Responsible for scheduling, technical review, and field quality control inspections.  | <input checked="" type="checkbox"/> Check if project performed with current firm |
| 3. | (1) TITLE AND LOCATION <i>(City and State)</i><br>On-Call Environmental and Asbestos Surveying Services, Flood Control<br>Maricopa County, Arizona   | (2) YEAR COMPLETED   |
|    |  | Professional Services<br>Ongoing<br>Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Program Manager for on-call services consisting of Phase I and Phase II ESA's, comprehensive asbestos services consisting of pre-demolition surveys, abatement project design and specification, and oversight/monitoring. Projects involved individual parcels with residential and commercial structures, and drainageway alignments in various planning stages of construction. Responsible for all contact requirements, scheduling and assignment of technical personnel. | <input checked="" type="checkbox"/> Check if project performed with current firm |
| 4. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Lead Risk Assessments, Residential Housing, Neighborhood Revitalization<br>Scottsdale, Arizona   | (2) YEAR COMPLETED   |
|    |  | Professional Services<br>2013<br>Construction (if applicable)                    |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Project Manager for lead paint risk assessments of over 50 private residential dwelling units approved for renovation/repair through the City of Scottsdale Neighborhood Revitalization Program. Responsible for budgets, schedules, client communication, and technical review of final reports.  | <input checked="" type="checkbox"/> Check if project performed with current firm |
| 5. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Asbestos Emergency Response Design and Control, ASU Physical Education<br>Tempe, Arizona   | (2) YEAR COMPLETED   |
|    |  | Professional Services<br>2012<br>Construction (if applicable)                    |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Project Manager for emergency response to accidental asbestos fiber release caused by roofing work. Specified containments, thorough cleaning procedures, and air ventilation and filtration using air volume exchange calculations. Coordinated responses by two abatement contractors. Documented clean-up with TEM analysis. Facilitated re-occupancy of the building on an accelerated schedule.   | <input checked="" type="checkbox"/> Check if project performed with current firm |



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

|  |   |  |                            |
|--|---|--|----------------------------|
| a. NAME<br>Craig Wiedeman  | b. ROLE IN THIS CONTRACT<br>Principal Engineer<br>Geotechnical Services | c. YEARS EXPERIENCE  |                            |
|  |   | 1. TOTAL<br>40   | 2. WITH CURRENT FIRM<br>36 |
| d. LOCATION <i>(City and State)</i><br>Western Technologies, Inc., Flagstaff, Arizona                            |   |  |                            |
| e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i><br>B.S. – Civil Engineering                                      |   | f. PROFESSIONAL TRAINING - REGISTRATIONS<br>P.E. Civil – AZ, CO, NM, NV, UT<br>Professional Land Surveyor – AZ |                            |
| g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i><br>Previous State Board Member of ASCE |   |  |                            |

**H. RELEVANT PROJECTS**

|    |   |                                     |  |
|----|---|-------------------------------------|--|
| 1. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Head Start Building,<br>Chinle, Arizona   | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services<br>2013       | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Principal engineer for geotechnical engineering services that provided evaluation for foundation design, excavation conditions, corrosivity, pavement and earthwork for new 4500 square foot building.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 2. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Diamond Valley Water District,<br>Prescott, Arizona   | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services<br>2014       | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Principal engineer for the geotechnical evaluation for a new water distribution system with over 72,000 feet of waterline. Evaluation includes subsurface earthwork conditions, corrosivity, excavation recommendations, and water storage tank design parameters.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 3. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Industrial Park,<br>Kayenta, Arizona  | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services<br>2013       | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Principal engineer for the geotechnical evaluation of excavation conditions, drainage, pavement, and earthwork for 85 lot industrial park. Final materials analysis included quality control verification of all earthwork and full engineering evaluation of all the structural components.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 4. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Indian Wells School Addition,<br>Holbrook, Arizona  | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services<br>2014       | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Principal engineer for the geotechnical evaluation of foundation design, floor slab support, excavation conditions, corrosivity, pavement and earthwork for addition to existing building.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 5. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Tuba City Justice Center,<br>Tuba City, Arizona   | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services               | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Geotechnical foundation recommendations, including seismic and lateral design criteria, site excavation requirements, materials replacement and earthwork criteria. Ongoing materials evaluations include in-situ density analysis, concrete and asphalt design and analysis, and full engineering evaluation of all structural components. | <input checked="" type="checkbox"/> | Check if project performed with current firm |



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|  |  |   |                            |
|--|--|---|----------------------------|
| a. NAME<br>Raphael Tixier, PhD, P.E.   | b. ROLE IN THIS CONTRACT<br>Senior Materials Engineer<br>Construction Materials Services | c. YEARS EXPERIENCE   |                            |
|  |  | 1. TOTAL<br>31  | 2. WITH CURRENT FIRM<br>13 |
| d. LOCATION (City and State)<br>Western Technologies, Inc., Phoenix, Arizona   |  |   |                            |
| e. EDUCATION (DEGREE AND SPECIALIZATION)<br>PhD, Civil Engineering<br>MS, Civil Engineering  |  | f. PROFESSIONAL TRAINING - REGISTRATIONS<br>P.E., Civil Engineer – AZ |                            |
| g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)<br>OSHA 40-Hour Hazardous Waste Site Operations and Emergency Response with Updates |  |   |                            |

**H. RELEVANT PROJECTS**

|    | (1) TITLE AND LOCATION (City and State)  | (2) YEAR COMPLETED                  |  |
|----|--|-------------------------------------|--|
|    |  | Professional Services               | Construction (if applicable)                 |
| 1. | Palo Verde Nuclear Generating Station, Spent Rod Containment Vertical Casks, Buckeye, Arizona  | Ongoing                             |  |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br>Provided quality control testing and batch plant inspections on the construction of vertical casks for the storage of spent nuclear rods.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 2. | Specialty Testing, Glass Guardrail System at Optima Towers, Phoenix, Arizona   | 2008                                |  |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br>Provided loading tests to determine if glass guardrail system was acceptable. Project consisted of half inch thick clear tempered glass panels 54 inches wide embedded in a fixed end support at the bottom and connected to each other on top by a continuous aluminum alloy circular profile. | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 3. | Materials Testing / Special Inspection, ASU ISTB II, ASU Tempe, Arizona  | 2006                                |  |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br>Materials Engineer for special inspections and QC services for construction of the ASU ISTB II Building. Services included foundation excavations, reinforcing steel, concrete, field welding, and QC for waterproofing.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 4. | Glass Fiber Reinforced Concrete / Foam Composite System Phoenix, Arizona   |                                     |  |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br>Observed and documented fabrication of specimens for ICC-ES evaluation of the system. Client had developed a composite system that consisted of a GFRC coating applied on an expanded polystyrene core.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 5. | Concrete Slab-On-Grade Testing , Peoria, Arizona   |                                     |  |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br>Drilled concrete slab-on-grade in order to obtain samples of base course and subgrade. Samples were used to determine moisture condition below slab-on-grade.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |



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

|  |  |  |                            |
|--|--|--|----------------------------|
| a. NAME<br>Thomas N. Tiedemann   | b. ROLE IN THIS CONTRACT<br>Project Manager<br>Nondestructive Testing Services | c. YEARS EXPERIENCE                      |                            |
|  |  | 1. TOTAL<br>10                           | 2. WITH CURRENT FIRM<br>10 |
| d. LOCATION (City and State)<br>Western Technologies, Inc., Tucson, Arizona  |  |  |                            |
| e. EDUCATION (DEGREE AND SPECIALIZATION)   |  | f. PROFESSIONAL TRAINING - REGISTRATIONS |                            |
| g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)<br>ACI – Concrete Field, Concrete Strength Technician; ICC – Structural Masonry, Spray-Applied Fireproofing, Reinforced Concrete, Prestressed Concrete, Reinforced Concrete, and Structural Steel and Bolting, and Structural Welding Special Inspector; AWS – Certified Welding Inspector; API – Above Ground Storage Tank Inspector |  |  |                            |

**H. RELEVANT PROJECTS**

|    |  |                                     |  |
|----|--|-------------------------------------|--|
| 1. | (1) TITLE AND LOCATION (City and State)<br>Arizona Stadium Scoreboard,<br>Tucson, Arizona  | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services<br>2011       | Construction (if applicable)<br>2011         |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br>Performed nondestructive testing services for the replacement of the existing scoreboard with a video scoreboard and system on the south end of Arizona Stadium. Performed visual weld inspections, ultrasonic testing and special inspections of high-strength bolts.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 2. | (1) TITLE AND LOCATION (City and State)<br>Villa Del Puente Solar Project,<br>Tucson, Arizona  | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services<br>2012       | Construction (if applicable)<br>2012         |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br>Performed project management for nondestructive testing services for ground penetrating radar locating reinforcing steel within selected walls and floors of an existing dormitory.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 3. | (1) TITLE AND LOCATION (City and State)<br>Ajo Border Patrol Station Facilities,<br>Ajo, Arizona   | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services<br>2012       | Construction (if applicable)<br>2012         |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br>Performed project management for nondestructive testing services including evaluation of relative humidity in concrete floor slabs per ASTM F2170, moisture vapor emission rate per ASTM F1869, and surface alkalinity pH testing per ASTM F710.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 4. | (1) TITLE AND LOCATION (City and State)<br>Weld Examinations – ASARCO,<br>Marana, Arizona  | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services<br>2012       | Construction (if applicable)<br>2012         |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br>Performed project management services for an evaluation of the soundness of welds on a used roll over protection system (ROPS). Perform Ultrasonic and Magnetic Particle Testing per API650 and AWS D1.1.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 5. | (1) TITLE AND LOCATION (City and State)<br>ADOT Structural Steel Fabrication Inspections<br>Arizona  | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services<br>Ongoing    | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br>Performed project management services during visual examination and nondestructive testing services for the inspection of structural steel fabricated for projects on an as-needed basis. This included fabrication shop inspections, verification of all welding procedures, and inspection of welds using visual, ultrasonic and radiographic examinations. | <input checked="" type="checkbox"/> | Check if project performed with current firm |



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|                        |  |                     |                           |
|------------------------|--|---------------------|---------------------------|
| a. NAME<br>Brian Swick | b. ROLE IN THIS CONTRACT<br>Project Manager<br>Construction Materials Services | c. YEARS EXPERIENCE |                           |
|                        |  | 1. TOTAL<br>22      | 2. WITH CURRENT FIRM<br>9 |

d. LOCATION (City and State)  
Western Technologies, Inc., Prescott, Arizona

|  |  |
|--|--|
| e. EDUCATION (DEGREE AND SPECIALIZATION) | f. PROFESSIONAL TRAINING - REGISTRATIONS |
|--|--|

g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)  
 ACI – Concrete Field and Strength Testing Technician; ATTI – Asphalt, Field, Soils/Aggregate Lab Technician; ICC – Reinforced Concrete and Structural Masonry Special Inspector

**H. RELEVANT PROJECTS**

|    | (1) TITLE AND LOCATION (City and State)   | (2) YEAR COMPLETED                  |  |
|----|---|-------------------------------------|--|
|    |   | Professional Services               | Construction (if applicable)                 |
| 1. | Little Hells Canyon Dam,<br>Chino Valley, Arizona   | 2011                                | 2011   |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br>Black Canyon City, AZ: Project Manager for Contractor Quality Control including review of test results, scheduling, and weekly quality control reports.                    | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 2. | Ashfork Highway, SR 89,<br>Chino Valley, Arizona  | 2011                                | 2011   |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br>Project manager for the materials testing. Services included observation and testing of earthwork, concrete, and asphalt concrete. WT fees exceeded \$170,000.             | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 3. | Viewpoint Drive<br>Prescott Valley, Arizona   | 2010                                | 2011   |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br>Project manager for the materials testing. Services included observation and testing of earthwork, concrete, and asphalt concrete on new traffic interchange.              | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 4. | Fain Road Widening<br>Prescott Valley, Arizona  | 2012                                | 2012   |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br>Project manager for the materials testing. Services included observation and testing of earthwork, concrete, and asphalt concrete. WT fees exceeded \$137,000.             | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 5. | Granite Dells Parkway,<br>Prescott, Arizona   | 2013                                | 2013   |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br>Project manager for the materials testing. Services included observation and testing of earthwork, concrete, and asphalt concrete on installation of new reservoir system. | <input checked="" type="checkbox"/> | Check if project performed with current firm |





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|   |   |   |                            |
|---|---|---|----------------------------|
| a. NAME<br>Stephen J. Smelser, RQ, CEM  | b. ROLE IN THIS CONTRACT<br>Project Principal<br>Environmental Services | c. YEARS EXPERIENCE   |                            |
|   |   | 1. TOTAL<br>30  | 2. WITH CURRENT FIRM<br>17 |
| d. LOCATION ( <i>City and State</i> )<br>Western Technologies, Inc., Phoenix, Arizona   |   |   |                            |
| e. EDUCATION ( <i>DEGREE AND SPECIALIZATION</i> )<br>BS, Geology  |   | f. PROFESSIONAL TRAINING - REGISTRATIONS<br>Registered Geologist – AZ, CA<br>Certified Environmental Manager – NV |                            |
| g. OTHER PROFESSIONAL QUALIFICATIONS ( <i>Organizations, Awards, etc.</i> )<br>OSHA 40-Hour Hazardous Waste Site Operations and Emergency Response with Updates |   |   |                            |

**H. RELEVANT PROJECTS**

|    |   |                                     |  |
|----|---|-------------------------------------|--|
| 1. | (1) TITLE AND LOCATION ( <i>City and State</i> )<br>Phase I and II Environmental Site Assessments,<br>Harquahala Valley, Arizona  | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services<br>2012       | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE<br>Phase I ESA for approximately 18,000 acre of agriculturally developed property. Performed the physical assessment of the Site using an aerial reconnaissance followed by several days of ground reconnaissance. Performed a Phase II ESA and conducted remediation of an area of petroleum-impacted soil at the Site.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 2. | (1) TITLE AND LOCATION ( <i>City and State</i> )<br>UST Corrective Actions – Service Station,<br>Phoenix, Arizona   | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services<br>2011       | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE<br>UST Corrective actions at a former service station. The USTs had been removed, and another consultant had installed borings and wells at the Site. Reviewed previous consultant’s work, prepared work plan for site characterization, and directed additional characterization. Directed design, permitting, installation, operation, and maintenance of soil vapor extraction and air-sparging system for remediation of soil/groundwater. | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 3. | (1) TITLE AND LOCATION ( <i>City and State</i> )<br>Phase I and II ESA – Former Industrial / Commercial Site,<br>Phoenix, Arizona   | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services<br>2010       | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE<br>Assessment of an industrial/commercial facility formerly used as a car lot, used airplane parts salvage yard, a clay pipe manufacturer, and a portable toilet and dumpster cleaning and storage facility. Phase II ESA included a geophysical survey using a subcontracted geophysicist, excavation of test pits, and auger drilling with soil sampling and testing.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 4. | (1) TITLE AND LOCATION ( <i>City and State</i> )<br>Environmental Compliance Services / Phase I and II ESA/Demolition Oversight,<br>Chandler, Arizona   | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services<br>2009       | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE<br>Assessment and remediation of a metal plating facility. WT conducted a comprehensive Phase I/II ESA, asbestos survey, oversaw the demolition, and direct and document the remediation of impacted and/or hazardous soils. Phase II ESA involved performance of soil sampling and testing, concrete sampling and testing, and technical report preparation.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 5. | (1) TITLE AND LOCATION ( <i>City and State</i> )<br>Phase I ESA – City of Tempe Light Rail Project,<br>Tempe, Arizona   | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services               | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE<br>Project Manager for projects involving investigations of five sites to assess if there were potential environmental impacts from the past or present site usage. The properties included a residential building, a sports bar and trailer park, a maintenance yard, a closed automotive repair and fueling facility, and a commercial rental facility.  | <input checked="" type="checkbox"/> | 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**

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

|                        |   |                     |                            |
|------------------------|---|---------------------|----------------------------|
| a. NAME<br>Todd Sayers | b. ROLE IN THIS CONTRACT<br>Project Manager<br>Environmental Services | c. YEARS EXPERIENCE |                            |
|                        |   | 1. TOTAL<br>20      | 2. WITH CURRENT FIRM<br>19 |

d. LOCATION *(City and State)*  
Western Technologies, Inc., Flagstaff, Arizona

|   |  |
|---|--|
| e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i><br>B.S. – Geology | f. PROFESSIONAL TRAINING - REGISTRATIONS |
|---|--|

g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*  
EPA – Approved Asbestos Inspector and Contractor Supervisor, and Management Planner; EAA – Certified Environmental Specialist and Consultant

**H. RELEVANT PROJECTS**

|    | (1) TITLE AND LOCATION <i>(City and State)</i>   | (2) YEAR COMPLETED                  |  |
|----|--|-------------------------------------|--|
|    |  | Professional Services               | Construction (if applicable)                 |
| 1. | Northern Arizona University South Family Apartments, Flagstaff, Arizona  | 2014                                |  |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Project manager for asbestos abatement surveys performed during apartment renovations. Services included full-time abatement surveys for over 80,624 square-feet. Construction materials testing was also performed on-site. | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 2. | Proposed NAU Student Housing Flagstaff, Arizona  | 2014                                |  |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Project manager for a site evaluation to locate asbestos, lead-based pant, and air pollutants for a proposed new student housing facility.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 3. | South Quarters Property, Chinle, Arizona   | 2014                                |  |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Project manager for soil assessment services of Bureau of Indian Affairs project. Included the testing and supervision of the removal of petroleum contaminated soil and underground storage tanks.                          | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 4. | El Tovar Lodge,, Grand Canyon, Arizona   |                                     |  |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Supervised various projects on the El Tovar Lodge. Services ranged from asbestos abatement surveys to lead-based paint surveys on several locations.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 5. | Flagstaff Medical Center, Flagstaff, Arizona   |                                     |  |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Supervised various projects on the Flagstaff Medical Center. Services ranged from asbestos abatement and microbial surveys to lead-based paint surveys on several locations.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |



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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<br>Mark W. Rosasco | b. ROLE IN THIS CONTRACT<br>Senior Project Manager<br>Construction Materials Services | c. YEARS EXPERIENCE |                            |
|                            |   | 1. TOTAL<br>29      | 2. WITH CURRENT FIRM<br>27 |

d. LOCATION *(City and State)*  
Western Technologies, Inc., Tucson, Arizona

e. EDUCATION *(DEGREE AND SPECIALIZATION)*      f. PROFESSIONAL TRAINING - REGISTRATIONS

g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*  
 ACI – Concrete Field Technician; ICC – Structural Masonry, Spray-Applied Fireproofing, Reinforced Concrete, and Prestressed Concrete Special Inspector, Reinforced Concrete; NICET Level III CMT – Soils, Concrete; NICET Level II GET – Construction, Exploration, Laboratory

**H. RELEVANT PROJECTS**

|    |  |                                     |  |
|----|--|-------------------------------------|--|
| 1. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Unisource Energy Corporate Headquarters,,<br>Tucson, Arizona   | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services<br>2011       | Construction (if applicable)<br>2011         |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Project Manager during construction materials testing and special inspections of a 170,000-square-foot, 9-story headquarters facility. The ground floor totals 11,000 square feet of retail space, a state-of-the art conference center, and an on-site parking structure. The construction utilizes concrete-on-metal-deck on composite steel beams bearing on steel columns.                               | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 2. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Arizona Stadium Scoreboard,<br>Tucson, Arizona   | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services<br>2011       | Construction (if applicable)<br>2011         |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed project management services during construction materials testing and special inspections for the replacement of the existing scoreboard with a video scoreboard and system on the south end of Arizona Stadium. The total project cost was \$4.1 million.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 3. | (1) TITLE AND LOCATION <i>(City and State)</i><br>University Medical Center – Parking Garage,<br>Tucson, Arizona   | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services<br>2009       | Construction (if applicable)<br>2010         |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed project management services for construction materials testing and special inspections for a parking garage which is six stories above grade using cast-in-place and pre-cast concrete construction. Also included on the project was asphalt concrete paved parking and drive areas.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 4. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Diamond Children’s Medical Center,<br>Tucson, Arizona  | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services<br>2007       | Construction (if applicable)<br>2010         |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed project management services and special inspection services for construction of the Diamond Children's Medical Center featuring a 36-bed NICU, a 36-bed Medical/Surgical Unit, a 20-room Pediatric Intensive Care Unit, and a six-room Bone Marrow Transplant Unit. Other projects included in the \$200 million expansion were a 61-bed Emergency Department and a 16-bed Clinical Decision Unit. | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 5. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Continental Elementary Campus Redevelopment,<br>Tucson, Arizona  | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services<br>2012       | Construction (if applicable)<br>2013         |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed project management and special inspection services for construction of a \$3.5 million new sports field which included the installation of the sod, irrigation, fencing, lighting, bleachers, restrooms, utilities, sound system, and wi-fi.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |



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

|                                |   |                     |                            |
|--------------------------------|---|---------------------|----------------------------|
| a. NAME<br>David Regonini, REA | b. ROLE IN THIS CONTRACT<br>Project Principal<br>Environmental Services | c. YEARS EXPERIENCE |                            |
|                                |   | 1. TOTAL<br>30      | 2. WITH CURRENT FIRM<br>26 |

d. LOCATION *(City and State)*  
Western Technologies, Inc., Phoenix, Arizona

|  |  |
|--|--|
| e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i><br>BS, Environmental Science / Chemistry | f. PROFESSIONAL TRAINING - REGISTRATIONS<br>Registered Environmental Assessor I – CA |
|--|--|

g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*  
EPA Accredited Asbestos Inspector, EPA Accredited Asbestos Management Planner, EPA Certified Lead-Based Paint Risk Assessor, OSHA 40-Hour Hazardous Waste Site Operations and Emergency Response with Updates, OSHA 32-Hour Construction Industry Standards

**H. RELEVANT PROJECTS**

|    | (1) TITLE AND LOCATION <i>(City and State)</i>  | (2) YEAR COMPLETED                  |  |
|----|---|-------------------------------------|--|
|    |   | Professional Services               | Construction (if applicable)                 |
| 1. | Hazardous Waste Services,<br>Tucson, Arizona  | 2013                                |  |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Project Manager for RCRA facility audits, corrective actions for metals contamination from aluminum dross generated at the site. Developed contingency plan, personnel training plan, waste analysis plan, and facility annual reports. Conducted personnel training to comply with RCRA criteria. Evaluated and advised the facility on waste recycling, treatment, and disposal options.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 2. | Hazardous Waste Characterizations – Luke and Davis-Monthan Air Force Bases,<br>Arizona  | 2008                                |  |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Environmental Specialist and Project Manager for drum sampling and hazardous waste characterizations at DRMO facilities. Field work performed under Level C PPE following established health and safety plan.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 3. | Lust Groundwater Investigation,<br>Goodyear, Arizona  | 2006                                |  |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Installed and sampled four ground water monitoring wells around a tank farm that included both USTs and ASTs. Collected soil samples during borehole drilling. Monitoring results showed the presence of phased product on a perched aquifer. Completed all work on an accelerated 3-week schedule.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 4. | Phase I ESAs/Site Investigations,<br>Phoenix, Arizona   | 2005                                |  |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Managed the implementation of Phase I ESAs at four parcels for ADOT. Multiple uses included an automotive sales/repair facility, former manufacturing facilities, a hotel, landscape materials yard, distribution facility, electric motor rewinding, and a closed gasoline station. Site investigations included manual and mechanized drilling and sampling, magnetometer survey, and waste characterization. Evaluated former UST pits, existing dry wells, and inground dip tanks. Recommended soil removal activities and dry well abandonment procedures. | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 5. | Water Quality Assurance Revolving Fund (WQARF) Site Investigation,<br>Mesa, Arizona   | 2000                                |  |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Project Manager for site investigation at this former electric motor manufacturing facility located within a State WQARF area. Negotiated work scopes with ADEQ to evaluate solvent and PCB contamination in dry wells, sumps, and a wastewater system. Obtained closure with no ground water monitoring and no further remedial actions.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |



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

|   |  |  |                            |
|---|--|--|----------------------------|
| a. NAME<br>Bruce MacIlroy, P.E.   | b. ROLE IN THIS CONTRACT<br>Project Manager<br>Geotechnical Services | c. YEARS EXPERIENCE  |                            |
|   |  | 1. TOTAL<br>36   | 2. WITH CURRENT FIRM<br>12 |
| d. LOCATION ( <i>City and State</i> )<br>Western Technologies, Inc., Phoenix, Arizona   |  |  |                            |
| e. EDUCATION ( <i>DEGREE AND SPECIALIZATION</i> )<br>BS, Civil Engineering  |  | f. PROFESSIONAL TRAINING - REGISTRATIONS<br>P.E., Civil Engineering – AK, AZ, CO, ID, NC, NM, SC, UT, WA |                            |
| g. OTHER PROFESSIONAL QUALIFICATIONS ( <i>Organizations, Awards, etc.</i> )<br>American Society of Civil Engineers / Geotechnical Institute; ASTM – Committee D18 |  |  |                            |

**H. RELEVANT PROJECTS**

|    |  |                                     |  |
|----|--|-------------------------------------|--|
| 1. | (1) TITLE AND LOCATION ( <i>City and State</i> )<br>Cesar Chavez Library,<br>Phoenix, Arizona  | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services<br>2007       | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE<br>Performed project management during a geotechnical evaluation that included soil boring and test pit location diagram, bore hole and test pit logs, laboratory testing, and prepared a geotechnical report of results and recommendations for a proposed single-story structure of masonry construction.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 2. | (1) TITLE AND LOCATION ( <i>City and State</i> )<br>Proposed School Site,<br>Phoenix, Arizona  | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services<br>2012       | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE<br>Performed project management services for a geotechnical evaluation at a proposed school to be located in the Anthem residential development area. Proposed school will be composed of eight single-story, slab-on-grade structures as well as on-site asphalt paved parking and drive areas with rigid pavement sections.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 3. | (1) TITLE AND LOCATION ( <i>City and State</i> )<br>Raintree Corporate Center III & IV,<br>Scottsdale, Arizona   | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services<br>2009       | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE<br>Provided soils testing and geotechnical engineering services for two three-story slab-on-grade office buildings using concrete or steel-frame construction along with a six level parking structure, three levels below grade, 1 at grade and two above grade.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 4. | (1) TITLE AND LOCATION ( <i>City and State</i> )<br>Coca-Cola Glendale Sales Center,<br>Glendale, Arizona  | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services<br>2008       | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE<br>Conducted sixteen test borings. Provided a geotechnical report that included the results of the laboratory testing and observation of the field samples. Proposed project consisted of a 130,000 square foot office/distribution warehouse building. Tall, single story, slab-on-grade structure using steel-frame and concrete tilt panel construction.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 5. | (1) TITLE AND LOCATION ( <i>City and State</i> )<br>Grayhawk Executive Center,<br>Scottsdale, Arizona  | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services<br>2008       | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE<br>Performed a geotechnical evaluation to provide information and recommendations regarding foundation design parameters, lateral pressures, earthwork, pavement sections, drainage, cut and fill slopes, corrosivity, slabs-on-grade, excavation conditions, post-tensioned slab, and foundation systems. The proposed commercial and office development will be two single-story structures of 8,550 sf each, two single-story structures of 9,000 sf each, a two-story structure with the lower level partially below grade, and a future single-story bank structure of 4,900 sf. | <input checked="" type="checkbox"/> | Check if project performed with current firm |



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

|  |  |   |                            |
|--|--|---|----------------------------|
| a. NAME<br>Max Kemnitz   | b. ROLE IN THIS CONTRACT<br>Professional Engineer<br>Geotechnical Services | c. YEARS EXPERIENCE   |                            |
|  |  | 1. TOTAL<br>25  | 2. WITH CURRENT FIRM<br>25 |
| d. LOCATION (City and State)<br>Western Technologies, Inc., Flagstaff, Arizona   |  |   |                            |
| e. EDUCATION (DEGREE AND SPECIALIZATION)<br>M.S. – Civil Engineering<br>B.S. – Civil Engineering   |  | f. PROFESSIONAL TRAINING - REGISTRATIONS<br>P.E., Civil Engineering – AZ NV |                            |
| g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)<br>EPA – Approved Asbestos Building Inspector and Contractor Supervisor |  |   |                            |

**H. RELEVANT PROJECTS**

|    |  |                                     |  |
|----|--|-------------------------------------|--|
| 1. | (1) TITLE AND LOCATION (City and State)<br>Various Projects for VA Health Care System,<br>Prescott, Arizona  | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services               | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br>Supervised various projects on the VA Health Care System facility. Services ranged from asbestos abatement surveys, indoor air quality surveys, water testing, and lead-based paint surveys on several offices in the building. | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 2. | (1) TITLE AND LOCATION (City and State)<br>Camp Navajo Igloos<br>Bellemont, Arizona  | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services<br>2014       | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br>Project manager for a geotechnical evaluation. Drainage areas and roadway were accessed using geotechnical survey prior to government missile storage igloos were constructed.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 3. | (1) TITLE AND LOCATION (City and State)<br>Pipeline Installation,<br>Flagstaff, Arizona  | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services<br>2013       | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br>Project engineer and manager for a geotechnical evaluation of a residential subdivision. Provided geotechnical recommendations prior to new pipeline installation.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 4. | (1) TITLE AND LOCATION (City and State)<br>Ford/Lincoln/Mercury Dealership,<br>Kingman, Arizona  | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services<br>2013       | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br>Project engineer and manager for a phase II ESA survey on a breached chamber of the oil/water separator at the dealership. Survey included a geotechnical and environmental assessment and engineer recommendations.            | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 5. | (1) TITLE AND LOCATION (City and State)<br>Girls Ranch Berm Reconstruction,<br>Coconino County, Arizona  | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services<br>2012       | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br>Project manager for a geotechnical evaluation for the installation of a 2,400 foot berm. Recommendations included earthwork, excavation conditions, and subgrade preparation for the Coconino County Public Works.              | <input checked="" type="checkbox"/> | Check if project performed with current firm |



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|  |  |  |                            |
|--|--|--|----------------------------|
| a. NAME<br>Greg Keller   | b. ROLE IN THIS CONTRACT<br>Project Manager<br>Construction Materials Services | c. YEARS EXPERIENCE                      |                            |
|  |  | 1. TOTAL<br>16                           | 2. WITH CURRENT FIRM<br>15 |
| d. LOCATION <i>(City and State)</i><br>Western Technologies, Inc., Sierra Vista, Arizona   |  |  |                            |
| e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i>  |  | f. PROFESSIONAL TRAINING - REGISTRATIONS |                            |
| g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i><br>ACI – Concrete Field, Concrete Strength Technician; ICC – Structural Masonry, Spray-Applied Fireproofing, Reinforced Concrete, and Prestressed Concrete, Reinforced Concrete, and Structural Steel and Bolting Special Inspector; NICET Level III – Soils, Concrete, Asphalt, TET Highway Materials |  |  |                            |

**H. RELEVANT PROJECTS**

|    |   |                                     |  |
|----|---|-------------------------------------|--|
| 1. | (1) TITLE AND LOCATION <i>(City and State)</i><br>San Pedro Bridge Replacement,<br>Cochise County, Arizona  | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services               | Construction (if applicable)<br>2014         |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed project management services during the \$6.2 million replacement of the San Pedro Bridge. The new structure increases the width of the bridge from 26 to 44 feet and features 12-foot traffic lanes in both direction and 10-foot shoulders.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 2. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Arizona Street,<br>Bisbee, Arizona  | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services               | Construction (if applicable)<br>2014         |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed project management services during removal and replacement of asphaltic concrete of Arizona Street, from Cole Avenue to Hazard Street.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 3. | (1) TITLE AND LOCATION <i>(City and State)</i><br>SR 80 Dubacher Culvert,<br>Bisbee, Arizona  | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services               | Construction (if applicable)<br>2013         |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed project management services for construction materials testing and special inspections for a parking garage which is six stories above grade using cast-in-place and pre-cast concrete construction. Also included on the project was asphalt concrete paved parking and drive areas.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 4. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Sierra Vista Regional Airport – Taxiway G Extension,<br>Sierra Vista, Arizona   | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services               | Construction (if applicable)<br>2012         |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed project management services and special inspection services for construction of the Diamond Children's Medical Center featuring a 36-bed NICU, a 36-bed Medical/Surgical Unit, a 20-room Pediatric Intensive Care Unit, and a six-room Bone Marrow Transplant Unit. Other projects included in the \$200 million expansion were a 61-bed Emergency Department and a 16-bed Clinical Decision Unit.          | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 5. | (1) TITLE AND LOCATION <i>(City and State)</i><br>UAS ERMP Hangar Facility<br>Ft. Huachuca, Arizona   | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services               | Construction (if applicable)<br>2011         |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed project management services for construction of an \$8.6 million high bay UAS Facility. This 30,000 square-foot facility will house six Predator aircraft and provide administrative, common and utility areas. Designed as LEED Gold, the building's service bays require special design features such as high ceilings, large coiling doors, an overhead bridge crane and translucent clerestory windows. | <input checked="" type="checkbox"/> | Check if project performed with current firm |



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

|  |  |   |                            |
|--|--|---|----------------------------|
| a. NAME<br>Justin M. Heinecke, P.E., R.G.  | b. ROLE IN THIS CONTRACT<br>Project Manager<br>Geotechnical Services | c. YEARS EXPERIENCE   |                            |
|  |  | 1. TOTAL<br>14  | 2. WITH CURRENT FIRM<br>13 |
| d. LOCATION <i>(City and State)</i><br>Western Technologies, Inc., Tucson, Arizona |  |   |                            |
| e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i><br>B.S. – Geological Engineering   |  | f. PROFESSIONAL TRAINING - REGISTRATIONS<br>P.E. Civil – AZ<br>R.G.– AZ |                            |
| g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>          |  |   |                            |

**H. RELEVANT PROJECTS**

|    |  |                                     |  |
|----|--|-------------------------------------|--|
| 1. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Wastewater Treatment Plant Improvements,<br>Sierra Vista, Arizona  | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services<br>2009       | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed a geotechnical evaluation to the Wastewater Treatment Plant including two, 60-ft diameter clarifier tanks, a dewatering building and an asphalt concrete paved area to be used as a composting site. The clarifier tanks will be constructed with a 12-inch thick cast-in-place concrete walls utilizing conventional spread footings with each tank weighing 1,300 tons when filled.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 2. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Sierra Vista Regional Healthcare Center,<br>Sierra Vista, Arizona  | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services<br>2013       | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed a geotechnical evaluation for the new four-story, 175,000 square-foot hospital. The project will increase the number of beds to 100 and provide all private rooms. In addition, the hospital will include 15 inpatient psychiatric beds.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 3. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Depot Plaza,<br>Tucson, Arizona  | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services<br>2007       | Construction (if applicable)<br>2009         |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>This project in Downtown Tucson consists of a \$30 million five-story apartment complex atop a two-story underground parking garage. This project utilizes steel construction and the underground garage utilizes cast-in-place concrete with suspended post-tensioned slabs. Performed a geotechnical evaluation.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 4. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Mariposa Port of Entry,<br>Nogales, Arizona  | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services<br>2007       | Construction (if applicable)<br>2014         |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed a geotechnical evaluation for the expansion and reconfiguration of the Mariposa Port of Entry. Work included demolition of existing Port, reconstruction of traffic lanes including installation of 6 new lanes expandable to 12 as well as construction of new headhouse, administrative offices. The commercial area included demolition of existing buildings and dock spaces and construction of 5 new booths with an overhead catwalk for inspection, 56-full size dock spaces of which 6 will be enclosed climate controlled spaces. | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 5. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Davis Road Reconstruction,<br>Cochise County, Arizona  | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services<br>2010       | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed geotechnical evaluation for an approximate 3.9 miles of road reconstruction. The existing asphalt concrete and base course will be milled and blended for use as part of the pavement section. Cochise County requested that a structural number of at least 2.36 be utilized in the pavement section design for this major collector road.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |





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

|  |   |   |                            |
|--|---|---|----------------------------|
| a. NAME<br>Randall D. Harris, P.E.   | b. ROLE IN THIS CONTRACT<br>Principal Engineer<br>Geotechnical Services | c. YEARS EXPERIENCE   |                            |
|  |   | 1. TOTAL<br>26  | 2. WITH CURRENT FIRM<br>14 |
| d. LOCATION <i>(City and State)</i><br>Western Technologies, Inc., Tucson, Arizona   |   |   |                            |
| e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i><br>B.S. – Civil Engineering  |   | f. PROFESSIONAL TRAINING - REGISTRATIONS<br>P.E. Civil – AZ, CA<br>G.E. Geotechnical Engineering – CA |                            |
| g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i><br>Society of American Military Engineers<br>Construction Specifications Institute |   |   |                            |

**H. RELEVANT PROJECTS**

|    |   |                                     |  |
|----|---|-------------------------------------|--|
| 1. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Facilities Settlement,<br>Sahuarita, Arizona  | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services<br>2014       | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Evaluated distress occurring within the town hall facility, police station, and courts building. Evaluation included visual observations, review of third party survey results, and excavation of six hand-augured borings to obtain samples of subgrade soils. Crack monitors were installed at strategic locations to document on-going movement. Conclusions and recommendations were provided in a final report.            | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 2. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Cochise College, Douglas Campus – Phase I & II,<br>Douglas, Arizona   | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services<br>2009       | Construction (if applicable)<br>2010         |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>In responsible charge of special inspection and testing for a Career Technology/ED Building, a Science Building, a Central Housing Building, and a cluster of six dormitory buildings. Inspection and testing were performed for earthwork, concrete construction, masonry construction, structural steel, shop and field welding and epoxy anchors.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 3. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Diamond Children’s Medical Center,<br>Tucson, Arizona   | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services<br>2009       | Construction (if applicable)<br>2011         |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>In responsible charge for special inspection of earthwork, Geopier construction, reinforced and light weight concrete, epoxy bolt and dowel installation, welding, high-strength bolting, spray-applied fireproofing, and testing of soils and concrete during construction of a 211,000 square-foot, six-story tower adjacent to the existing hospital.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 4. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Pavement Evaluation,<br>Tucson, Arizona   | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services<br>2014       | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Evaluated asphalt concrete placed around a new restaurant and drug store. The specifications required 98% compaction, but contractor achieved results in the 90 to 95% range. Recommendations for mitigation were provided; however, the owner required that at least portions of the asphalt concrete be removed and replaced. WT performed testing of the new pavement as it was constructed in order to document compliance. | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 5. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Main Terminal Apron Reconstruction,<br>Tucson, Arizona  | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services<br>2012       | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed a geotechnical evaluation for the reconstruction of portland cement concrete pavements surrounding the main terminal buildings. The project includes the demolition and backfill of an arched utility tunnel, improvements to two SIDA (Security Identification Display Area) gates, and improvements for a temporary fuel area, including a depressed ramp and loading area.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |



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

|                       |  |                     |                            |
|-----------------------|--|---------------------|----------------------------|
| a. NAME<br>John Hahle | b. ROLE IN THIS CONTRACT<br>Project Principal<br>Construction Materials Services | c. YEARS EXPERIENCE |                            |
|                       |  | 1. TOTAL<br>46      | 2. WITH CURRENT FIRM<br>44 |

d. LOCATION *(City and State)*  
Western Technologies, Inc., Flagstaff, Arizona

|   |  |
|---|--|
| e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i><br>B.S. – Civil Engineering | f. PROFESSIONAL TRAINING - REGISTRATIONS |
|---|--|

g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*  
EAA – Certified Environmental Inspection, Specialist, Manager; ICC – Master of Special Inspections; NICET Level IV – CMT, Transportation; NICET Level III – Geotechnical; NICET Level II – Underground and Utilities Construction

| H. RELEVANT PROJECTS |   |                                     |  |
|----------------------|---|-------------------------------------|--|
| 1.                   | (1) TITLE AND LOCATION <i>(City and State)</i><br>Love’s Travel Stop,<br>Williams, Arizona  | (2) YEAR COMPLETED                  |  |
|                      |   | Professional Services<br>2014       | Construction (if applicable)                 |
|                      | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Project manager for all inspections and tests for the construction of a new travel stop and gas station. Current inspections includes earthwork, structural concrete, steel, structural welding, epoxy anchors, and masonry. Site construction also includes inspection of two new restaurants that brings the overall site area to over 435,000 square-feet. | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 2.                   | (1) TITLE AND LOCATION <i>(City and State)</i><br>US 89 Bridge and Roadway Construction,<br>Flagstaff and Cameron, Arizona  | (2) YEAR COMPLETED                  |  |
|                      |   | Professional Services<br>2014       | Construction (if applicable)                 |
|                      | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Project manager for all inspections and tests for the construction of a new bridge, overpass, and general road construction for ADOT. Current testing includes earthwork, concrete, and asphalt. Project totals \$3.62 million and covers over three miles of construction.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 3.                   | (1) TITLE AND LOCATION <i>(City and State)</i><br>Lee’s Ferry Road and Paira River Bridge<br>Glen Canyon National Recreation Area, Arizona  | (2) YEAR COMPLETED                  |  |
|                      |   | Professional Services<br>2013       | Construction (if applicable)<br>2013         |
|                      | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Responsible for managing and overseeing project testing. Testing included earthwork, asphalt, and concrete placement. Project consisted of the construction of a new access road to the Paira River Bridge.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 4.                   | (1) TITLE AND LOCATION <i>(City and State)</i><br>Four Corners Highway; US 160<br>Tsegi and Tuba City, Arizona  | (2) YEAR COMPLETED                  |  |
|                      |   | Professional Services<br>2014       | Construction (if applicable)                 |
|                      | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Project manager for all inspections and tests for the reconstruction of an ADOT highway. Testing included earthwork, crusher control, concrete, and asphalt. Project totaled \$3.99 million.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 5.                   | (1) TITLE AND LOCATION <i>(City and State)</i><br>Airport Taxiway Strengthening,<br>Paige Municipal Airport, Arizona  | (2) YEAR COMPLETED                  |  |
|                      |   | Professional Services<br>2012       | Construction (if applicable)                 |
|                      | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Project manager for quality assurance for strengthening of an airport taxiway. Testing included earthwork and paving.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |



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

|  |   |  |                            |
|--|---|--|----------------------------|
| a. NAME<br>James R. Fennell, CWI, ASNT II, ICC   | b. ROLE IN THIS CONTRACT<br>Senior Project Manager<br>Nondestructive Testing Services | c. YEARS EXPERIENCE                      |                            |
|  |   | 1. TOTAL<br>25                           | 2. WITH CURRENT FIRM<br>25 |
| d. LOCATION <i>(City and State)</i><br>Western Technologies, Inc., Phoenix, Arizona  |   |  |                            |
| e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i>  |   | f. PROFESSIONAL TRAINING - REGISTRATIONS |                            |
| g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i><br>AWS – CWI; ASNT Level II – RT, PT, MT, UT, VT; ICC – Spray-Applied Fireproofing, Bolting, Structural Steel and Welding; Clark County Fabrication Shop Auditor, Ground Penetrating Radar |   |  |                            |

**H. RELEVANT PROJECTS**

|    |  |                                     |  |
|----|--|-------------------------------------|--|
| 1. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Honeywell Storage Tanks<br>Phoenix, Arizona  | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services               | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Project Manager for ultrasonic testing of tanks at all facilities.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 2. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Phoenix Indian Hospital – Rebar Location,<br>Phoenix, Arizona  | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services               | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed ground-penetrating radar scanning of a concrete deck to locate rebar during a hospital expansion.                    | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 3. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Commercial Building Floor,<br>Phoenix, Arizona   | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services               | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed visual welding and nondestructive examination of concrete floor to determine location of reinforcing rebar.          | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 4. | (1) TITLE AND LOCATION <i>(City and State)</i><br>A.D.A.L. Corrosion Facility,<br>Phoenix, Arizona   | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services               | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Provided services for construction of new structure. Monitored fabrication, welding, bolting and material verification.        | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 5. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Arizona Department of Transportation,<br>Phoenix, Arizona  | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services               | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Provided services for testing of bridge elastomeric bearing pads for reconstruction and new construction of bridges statewide. | <input checked="" type="checkbox"/> | Check if project performed with current firm |



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

|  |  |  |                            |
|--|--|--|----------------------------|
| a. NAME<br>Phillip Feliz, S.E.T.   | b. ROLE IN THIS CONTRACT<br>Senior Materials Professional<br>Construction Materials Services | c. YEARS EXPERIENCE                      |                            |
|  |  | 1. TOTAL<br>46                           | 2. WITH CURRENT FIRM<br>16 |
| d. LOCATION <i>(City and State)</i><br>Western Technologies, Inc., Phoenix, Arizona  |  |  |                            |
| e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i><br>AS, Civil Engineering   |  | f. PROFESSIONAL TRAINING - REGISTRATIONS |                            |
| g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i><br>NICET Level III – Transportation and Highway Materials; NICET Level IV – Soils, Concrete, Asphalt; ATTI Asphalt |  |  |                            |

**H. RELEVANT PROJECTS**

|                                     |   |  |                              |
|-------------------------------------|---|--|------------------------------|
| 1.                                  | (1) TITLE AND LOCATION <i>(City and State)</i><br>On-Call Geotechnical and Materials Testing Services, MCDOT<br>Maricopa County, Arizona  | (2) YEAR COMPLETED                           |                              |
|                                     | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Currently providing consultation services and materials laboratory testing of various pavement designs and construction. Projects range from new to existing roadways throughout the county.  | Professional Services<br>2010                | Construction (if applicable) |
| <input checked="" type="checkbox"/> |   | Check if project performed with current firm |                              |
| 2.                                  | (1) TITLE AND LOCATION <i>(City and State)</i><br>Pavement Maintenance Runway 30C and Taxiway K Exits,<br>Mesa, Arizona   | (2) YEAR COMPLETED                           |                              |
|                                     | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Provided engineering services including site visits to evaluate conditions; provided recommendations for short-term maintenance options; reviewed and commented on contractor's proposed methods and materials as well as provided a geotechnical review and construction materials sampling and testing.   | Professional Services<br>2011                | Construction (if applicable) |
| <input checked="" type="checkbox"/> |   | Check if project performed with current firm |                              |
| 3.                                  | (1) TITLE AND LOCATION <i>(City and State)</i><br>Airport Pavement Preservation Program,<br>Arizona   | (2) YEAR COMPLETED                           |                              |
|                                     | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Developed specifications for asphalt paving materials and construction methods. Provided consulting services for pavement rehabilitation and reviewed materials and mix designs submittals. Runways, taxiways and parking aprons consisted of asphalt-rubber overlays while a Type II slurry seal was used on various municipal and regional airport runways.   | Professional Services<br>Ongoing             | Construction (if applicable) |
| <input checked="" type="checkbox"/> |   | Check if project performed with current firm |                              |
| 4.                                  | (1) TITLE AND LOCATION <i>(City and State)</i><br>On-Call Geotechnical and Materials Testing Services,<br>Glendale, Arizona   | (2) YEAR COMPLETED                           |                              |
|                                     | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Principal laboratory contact for a multi-year contract. Services included testing and inspection services.  | Professional Services                        | Construction (if applicable) |
| <input checked="" type="checkbox"/> |   | Check if project performed with current firm |                              |
| 5.                                  | (1) TITLE AND LOCATION <i>(City and State)</i><br>Cottonwood Airport Surface Treatment<br>Cottonwood, Arizona   | (2) YEAR COMPLETED                           |                              |
|                                     | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Project consisted of design and preparation of construction plans and specifications for apron pavement maintenance at the municipal airport. Pavement surfaces of the north and south aprons were not severely cracked but required treatment before deterioration became worse. Consisted of placing a thermoplastic coal-tar slurry seal to maintain pavement quality as well as required pavement markings. | Professional Services                        | Construction (if applicable) |
| <input checked="" type="checkbox"/> |   | Check if project performed with current firm |                              |



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

|  |   |   |                            |
|--|---|---|----------------------------|
| a. NAME<br>Armando De La Rocha, P.E.   | b. ROLE IN THIS CONTRACT<br>Senior Pavement Engineer<br>Geotechnical Services | c. YEARS EXPERIENCE   |                            |
|  |   | 1. TOTAL<br>37  | 2. WITH CURRENT FIRM<br>20 |
| d. LOCATION (City and State)<br>Western Technologies, Inc., Phoenix, Arizona   |   |   |                            |
| e. EDUCATION (DEGREE AND SPECIALIZATION)<br>MS, Geotechnical Engineering<br>BS, Civil Engineering  |   | f. PROFESSIONAL TRAINING - REGISTRATIONS<br>P.E., Civil Engineering, AZ, NM |                            |
| g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)<br>New Mexico DOT Certified Pavement Design Engineer, Soil Mechanics and Foundation Engineering |   |   |                            |

**H. RELEVANT PROJECTS**

|    |   |                                     |  |
|----|---|-------------------------------------|--|
| 1. | (1) TITLE AND LOCATION (City and State)<br>Lake Mary Road Improvements, MP 301.8 to MP 310,<br>Coconino County, Arizona   | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services<br>2009       | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br>Provided geotechnical and pavement design services for cold-in-place recycling and overlay of 8.2 miles of road. Thickness of existing pavement that was considered to be cold-in-place recycled was 4 inches and a minimum 2-inch thick overlay was design recommended.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 2. | (1) TITLE AND LOCATION (City and State)<br>Route 66 Improvements, MP 192 to I-40 Intersection,<br>Coconino, Arizona   | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services               | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br>Provided geotechnical and pavement design services for CIPR and overlay of 1.3 miles of road. Thickness of existing pavement that was considered to be CIPR was 4-9 inches with a thickness of 4 inches. Recommended rehabilitation consisted of minimum 2-inch thick virgin asphalt concrete overlay over 3 inches of CIPR over remaining existing section. | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 3. | (1) TITLE AND LOCATION (City and State)<br>Submittal Reviews,<br>Yuma, Arizona  | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services               | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br>Reviewed materials submittals (AC mix design, portland cement concrete mix design, aggregate base courses) and provide recommendations and/or approval regarding County specifications. Contract with the County has been in operation since the 1990s.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 4. | (1) TITLE AND LOCATION (City and State)<br>Road Improvements<br>Gilbert, Arizona  | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services               | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br>Reviewed materials submittals (AC, ARAC mix designs aggregate base course) and provided recommendations and/or approval regarding MAG specifications.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 5. | (1) TITLE AND LOCATION (City and State)<br>Geotechnical Evaluation, El Mirage Bridge, North MCDOT<br>El Mirage, Arizona   | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services               | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br>A three-span bridge, approximately 400 feet long, part of a roadway improvement project by MCDOT. Bridge located between Beardsley Road and Loop 303. Performed geotechnical evaluation and deep foundation design (drilled shafts) using Load Resistance Factor Design (LRFD) procedure.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |



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

|                               |  |                     |                            |
|-------------------------------|--|---------------------|----------------------------|
| a. NAME<br>Patrick M. Cozzens | b. ROLE IN THIS CONTRACT<br>Project Manager<br>Construction Materials Services | c. YEARS EXPERIENCE |                            |
|                               |  | 1. TOTAL<br>15      | 2. WITH CURRENT FIRM<br>15 |

d. LOCATION *(City and State)*  
Western Technologies, Inc., Tucson, Arizona

e. EDUCATION *(DEGREE AND SPECIALIZATION)*      f. PROFESSIONAL TRAINING - REGISTRATIONS

g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*  
ACI – Concrete Field Technician; ATTI – Field Technician; ICC – Structural Masonry, Spray-Applied Fireproofing, Reinforced Concrete, and Prestressed Concrete Special Inspector

**H. RELEVANT PROJECTS**

|    |  |                                     |  |
|----|--|-------------------------------------|--|
| 1. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Tanque Verde Road, Catalina Highway to Houghton Road,<br>Tucson, Arizona   | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services               | Construction (if applicable)<br>2010         |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed project management services during reconstruction of 1.7 miles of a 4-lane, divided arterial roadway. Also included is constructing a storm drain, cross drainage structures, new box culverts, aggregate base and asphaltic concrete; curbs and medians.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 2. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Arbol De La Vida,<br>Tucson, Arizona   | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services               | Construction (if applicable)<br>2008         |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed project management services for new on-campus housing for undergraduate students. Six buildings are being constructed of reinforced and prestressed concrete and range between 5 and 6 stories. Also included are administration spaces, community amenities including great rooms, kitchen, divining/vending, recreation rooms, and laundry facilities.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 3. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Mission View Wash,<br>Pima County, Arizona   | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services               | Construction (if applicable)<br>2009         |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed project management services during the installation of 42"-48" new sewer interceptor line. This project resolves the conflict between the storm sewer project and the existing alignment of the interceptor.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 4. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Nogales International Wastewater Treatment Plant Expansion,<br>Nogales, Arizona  | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services<br>2007       | Construction (if applicable)<br>2014         |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Project consists of expanding the existing facility to 24 MGD and to improve the effluent quality. Construction included new headwords, a 42-inch diameter influent pipeline, splitter boxes, a process blower building, a bio-solids thickening and dewatering building, and a 42-inch diameter effluent pipeline. Performed project management services as well as construction materials testing and special inspections. | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 5. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Continental Elementary Campus Redevelopment,<br>Tucson, Arizona  | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services<br>2012       | Construction (if applicable)<br>2013         |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed project management services during observation, sampling and testing during construction of a 54,000 square feet of new classroom buildings, an administration building, cafeteria additions and renovation of 62,000 square feet of existing buildings.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |



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

|   |  |  |                            |
|---|--|--|----------------------------|
| a. NAME<br>Stephen G. Collins, REPA   | b. ROLE IN THIS CONTRACT<br>Senior Project Manager<br>Environmental Services | c. YEARS EXPERIENCE                      |                            |
|   |  | 1. TOTAL<br>26                           | 2. WITH CURRENT FIRM<br>22 |
| d. LOCATION <i>(City and State)</i><br>Western Technologies, Inc., Tucson, Arizona  |  |  |                            |
| e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i><br>BS – Wildlife and Fisheries Science  |  | f. PROFESSIONAL TRAINING - REGISTRATIONS |                            |
| g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i><br>AHERA Asbestos Building Inspector, AHERA Asbestos Management Planner, EPA Certified Lead Based Paint Risk Assessor |  |  |                            |

**H. RELEVANT PROJECTS**

|    | (1) TITLE AND LOCATION <i>(City and State)</i>   | (2) YEAR COMPLETED                  |  |
|----|--|-------------------------------------|--|
|    |  | Professional Services               | Construction (if applicable)                 |
| 1. | Comprehensive Asbestos and Lead Based Paint Surveys,<br>Douglas, Arizona   | 2010                                | 2010   |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed comprehensive asbestos and lead-based paint assessments and asbestos abatement oversight during construction renovation operations at Douglas Unified Schools.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 2. | Comprehensive Asbestos Survey,<br>Tucson, Arizona  | 2010                                |  |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed an asbestos survey of four single-story masonry residential structures following the NESHAP and OSHA protocols for the identification of asbestos containing materials (ACM's). This included identifying, quantifying, mapping, and sampling suspect ACM's.                                     | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 3. | Indoor Air Monitoring,<br>Tucson, Arizona  | 2009                                | 2009   |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed indoor air monitoring for the Southern Arizona Veterans Administration Facility to determine the effectiveness of engineering controls and work practices to control dust within the medical facility during air handler upgrades that lasted four months.                                       | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 4. | Basis School – Desert Springs Academy,<br>Tucson, Arizona  | 2013                                |  |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Provided project management services for performing a Phase I ESA and identifying, quantifying, mapping, and sampling suspect asbestos containing materials inside the 8,801 square-foot commercial structure built in 1966 on 0.92 acres of land.   | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 5. | AHERA Inspection / Management Plan Program<br>Rio Rico, Arizona  | 2013                                |  |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Provided AHERA Inspections and reinspections of all friable and nonfriable known or assumed asbestos containing materials in the nine school buildings owned or leased by the Santa Cruz Unified School District as well as created an AHERA Management Plan in accordance with the EPA AHERA Regulations. | <input checked="" type="checkbox"/> | Check if project performed with current firm |



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

|   |  |   |                            |
|---|--|---|----------------------------|
| a. NAME<br>Bryan Castles, P.E.  | b. ROLE IN THIS CONTRACT<br>Senior Materials Engineer<br>Construction Materials Services | c. YEARS EXPERIENCE   |                            |
|   |  | 1. TOTAL<br>31  | 2. WITH CURRENT FIRM<br>18 |
| d. LOCATION <i>(City and State)</i><br>Western Technologies, Inc., Phoenix, Arizona |  |   |                            |
| e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i><br>BS, Civil Engineering            |  | f. PROFESSIONAL TRAINING - REGISTRATIONS<br>P.E., Civil Engineering, AZ, CO, NV |                            |
| g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>           |  |   |                            |

**H. RELEVANT PROJECTS**

|    |   |                                     |  |
|----|---|-------------------------------------|--|
| 1. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Loop 303 and Lake Pleasant Parkway,<br>Phoenix, Arizona   | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services<br>2013       | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed project management and supervision services for materials testing for 10.6 miles of freeway construction consisting of excavation and embankment, aggregate base, PCCP and drainage facilities including 7 box culverts, 4 super box bridges, 4 prestressed AASHTO girder concrete bridges and 1 cast-in-place box bridge.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 2. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Reconstruction of Taxiway S and Aircraft Bridge Reconstruction, Sky Harbor,<br>Phoenix, Arizona   | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services<br>2010       | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Provided quality assurance and acceptance testing, inspection testing and project management services for the demolition of existing asphalt taxiway and three bridges along with reconstruction of taxiway in PCCP and a multi-span bridge.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 3. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Taxiway A Mill and Overlay Design Services, Sky Harbor International Airport,<br>Phoenix, Arizona   | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services               | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed a soil/pavement investigation to evaluate the condition of existing AC pavement and provided various pavement alternatives for pavement rehabilitation of Taxiway A and connecting taxiways.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 4. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Reconstruction of Taxiway D, Sky Harbor International Airport<br>Phoenix, Arizona   | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services               | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Provided quality assurance and acceptance testing, inspection testing and project management services for the demolition of existing asphalt taxiway and for reconstruction of taxiway in PCCP along with construction of associated electrical and communication services and storm drains.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 5. | (1) TITLE AND LOCATION <i>(City and State)</i><br>S2 Concourse, Sky Harbor International Airport<br>Phoenix, Arizona  | (2) YEAR COMPLETED                  |  |
|    |   | Professional Services               | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Provided project coordination and quality acceptance testing for construction of concourse and associated apron at Terminal 4, consisting of a 3.5-story building with a 118,130 sf basement and eight aircraft docking gates, an underground cart tunnel linking into Terminal 4 and two transfer bridges linking the S2 Concourse to the S3 Concourse and to Terminal 4. Testing was performed on earthwork, concrete, asphalt and PCCP concrete. | <input checked="" type="checkbox"/> | Check if project performed with current firm |





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

|  |   |  |                            |
|--|---|--|----------------------------|
| a. NAME<br>Sathish Banda, P.E.   | b. ROLE IN THIS CONTRACT<br>Materials Engineer<br>Construction Materials Services | c. YEARS EXPERIENCE  |                            |
|  |   | 1. TOTAL<br>13   | 2. WITH CURRENT FIRM<br>10 |
| d. LOCATION <i>(City and State)</i><br>Western Technologies, Inc., Phoenix, Arizona  |   |  |                            |
| e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i><br>MS, Civil Engineering<br>BT, Civil Engineering  |   | f. PROFESSIONAL TRAINING - REGISTRATIONS<br>P.E., Civil Engineering, Arizona |                            |
| g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i><br>ACI – Field and Strength Testing; ATTI – Asphalt, Soils and Aggregate, Field Testing; CAPA – Level A, B, C, WAQTC – Soil and Embankment Testing |   |  |                            |

**H. RELEVANT PROJECTS**

|    |  |                                     |  |
|----|--|-------------------------------------|--|
| 1. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Apron Rehabilitation, Safford Regional Airport<br>Safford, Arizona   | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services               | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed acceptance testing of rubberized asphalt concrete (P-402) used as an overlay of existing apron. Also served as Project Manager for WT services.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 2. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Sealcoat Runway 11R/29L, Tucson International Airport<br>Tucson, Arizona   | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services               | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Provided field sampling and laboratory testing as part of the acceptance testing performed on behalf of the owner and engineer. Close coordination of services with the contractor was required due to limited work areas and restricted access.                                 | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 3. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Pavement Preservation, Various Streets; Town of Marana<br>Marana, Arizona  | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services               | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed acceptance testing of asphalt emulsions and aggregate used in slurry seals and cape seals of various streets within the town limits. Consulted with the owner and contractor regarding appropriate test procedures and product application.                            | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 4. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Phoenix-Globe Highway US 60 – Florence Junction to Queen Creek<br>Maricopa County, Arizona   | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services               | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>As quality control engineer, performed testing services, supervised technicians, and reported test results in accordance with ADOT and client requirements.  | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 5. | (1) TITLE AND LOCATION <i>(City and State)</i><br>Hot Mix Asphalt Concrete Mix Designs<br>Arizona  | (2) YEAR COMPLETED                  |  |
|    |  | Professional Services               | Construction (if applicable)                 |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br>Performed and supervised mix designs for many contractors for Colorado Department of Transportation, New Mexico State Highway Department, Bureau of Indian Affairs, Arizona Department of Transportation, Federal and Airport projects involving Marshall and Superpave methods. | <input checked="" type="checkbox"/> | Check if project performed with current firm |



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

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

|   |                       |                                      |
|---|-----------------------|--------------------------------------|
| a. TITLE AND LOCATION (City and State)<br>Solana Solar Generating Station<br>Gila Bend, Arizona | b. YEAR COMPLETED     |                                      |
|   | PROFESSIONAL SERVICES | CONSTRUCTION (If applicable)<br>2012 |

23. PROJECT OWNER'S INFORMATION

|                            |  |                          |
|----------------------------|--|--------------------------|
| c. PROJECT OWNER<br>Solana | d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT | e. TOTAL COST OF PROJECT |
|----------------------------|--|--------------------------|

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

The Solana Generating Station is a solar power plant which is going on line in August 2013 near Gila Bend, Arizona. It was built by the Spanish company Abengoa Solar, and will have a total capacity of 280 megawatts (MW), which is enough to power 70,000 homes while avoiding around 475,000 tons of carbon dioxide. Its name is the Spanish term for "sunny spot". The Solana plant will cost an estimated \$2 billion, and received a \$1.45 billion federal loan guarantee to support construction of the plant. The plant will employ a proprietary concentrating solar power (CSP) trough technology developed by Abengoa, and will cover an area of 1,900 acres. One of the principal advantages of concentrated solar thermal (CST) is that storage can be provided efficiently (99%/day) so that 24-hour output can be provided, and output can be scheduled to meet demand requirements.

Western Technologies role included an innovative geotechnical design for the molten salt heat transfer tanks, along with special inspections and testing of geotechnical conditions, concrete and structural steel. Our unique role in the project included working for the Design/Build team, headed by Sundt Construction and also working for the owner as part of their quality assurance team. Western also performed visual inspection and radiograph evaluation of welds along miles of pipeline for the project to assist in the quality control of the construction.



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

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| a. TITLE AND LOCATION (City and State)               | b. YEAR COMPLETED     |                              |
|--|-----------------------|------------------------------|
|  | PROFESSIONAL SERVICES | CONSTRUCTION (If applicable) |
| Diamond Children's Medical Center<br>Tucson, Arizona | 2009                  | 2011                         |

23. PROJECT OWNER'S INFORMATION

| c. PROJECT OWNER          | d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT | e. TOTAL COST OF PROJECT |
|---------------------------|--|--------------------------|
| University Medical Center |  |                          |

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

This family-centered facility actively involves the hospitalized child's parents in all aspects of the child's care and accommodates their physical, psychological, social and spiritual needs. Thirty-six beds in the neonatal intensive care unit include special "nesting rooms," where parents can stay with their children long term and simulate their home environment. The project also houses a blood/marrow transplant room and pediatric emergency center. The colorful, child-friendly surroundings house playrooms on each floor, a teen activity room, a library and a healing garden.

**Western Technologies** performed a geotechnical evaluation as well as construction materials testing, special inspections, and nondestructive testing.





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

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

|   |                               |                                      |
|---|-------------------------------|--------------------------------------|
| a. TITLE AND LOCATION (City and State)<br>Unisource Corporate Headquarters<br>Tucson, Arizona | b. YEAR COMPLETED             |                                      |
|   | PROFESSIONAL SERVICES<br>2010 | CONSTRUCTION (If applicable)<br>2011 |

23. PROJECT OWNER'S INFORMATION

|                                    |  |                          |
|------------------------------------|--|--------------------------|
| c. PROJECT OWNER<br>Ryan Companies | d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT | e. TOTAL COST OF PROJECT |
|------------------------------------|--|--------------------------|

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

Unisource Energy, the largest publicly traded company based in Tucson, constructed a new nine-story, 170,000-square-foot corporate headquarter facility in downtown Tucson. It includes 11,000 square feet of ground-floor retail space, a state-of-the-art conference center, on-site parking and many environmental features focused on its pursuit of a LEED Gold or LEED Platinum Certification. Features include a solar water heating system and a 100-kilwatt solar photovoltaic (PV) array featuring low-profile, high-efficiency panels. The building layout and interior office design maximize the use of natural daylight. During the buildings demolition and construction process, 80% of the waste was recycled.



**Western Technologies** performed geotechnical and environmental engineering services, construction materials testing and special inspection services.







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

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

|  |                       |   |
|--|-----------------------|---|
| a. TITLE AND LOCATION <i>(City and State)</i><br>Northern Arizona Veterans Memorial Cemetery<br>Flagstaff, Arizona | b. YEAR COMPLETED     |   |
|  | PROFESSIONAL SERVICES | CONSTRUCTION <i>(If applicable)</i><br>2015 |

**23. PROJECT OWNER'S INFORMATION**

|  |  |                          |
|--|--|--------------------------|
| c. PROJECT OWNER<br>AZ Department of Veterans Services | d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT | e. TOTAL COST OF PROJECT |
|--|--|--------------------------|

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

The *Veterans Memorial Cemetery* is a new funeral and interment facility located on the Camp Navajo base in Bellemont, Arizona. Construction consists of renovating 8.9 acres in preparation for three building structures and 222 in-ground graves. The project contract is between \$1-3 million.



**Western Technologies**

performed a geotechnical evaluation as well as construction materials testing, and special inspections. Services will continue through the new year and into the Summer.





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

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

|  |                       |                                      |
|--|-----------------------|--------------------------------------|
| a. TITLE AND LOCATION (City and State)<br>The Village at Aspen Place<br>Flagstaff, Arizona | b. YEAR COMPLETED     |                                      |
|  | PROFESSIONAL SERVICES | CONSTRUCTION (If applicable)<br>2015 |

23. PROJECT OWNER'S INFORMATION

|   |   |                          |
|---|---|--------------------------|
| c. PROJECT OWNER<br>Van Trust Real Estate | d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT<br>Jim Kehoe | e. TOTAL COST OF PROJECT |
|---|---|--------------------------|

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

The Village at Aspen Place is a residential addition to downtown Flagstaff. The two phases of the project includes a 90,000 square-foot retail and restaurant space and a 222 luxury apartments. The project is set to be completed in Summer 2015.

**Western Technologies** performed a geotechnical evaluation as well as construction materials testing, and special inspections. Services will continue through the new year and into the Summer.





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100 North 15<sup>th</sup> 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.)

SEE ATTACHED

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: | 60 |
| b. | Percentage of Total Work Attributable to Non-Government Work:                          | 40 |

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

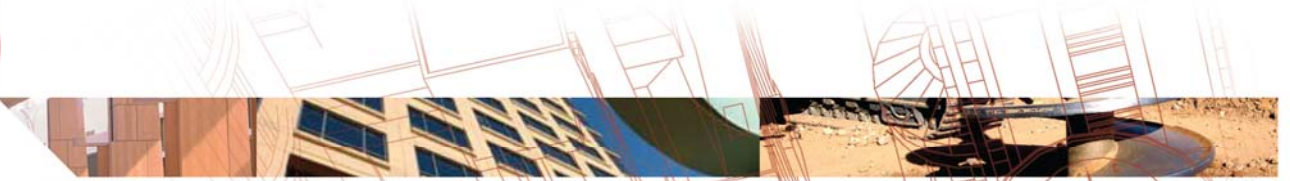
Signature: 

Date: 12/15/14

Name: Randolph H. Marwig, P.E.

Title: Vice President





Western Technologies, Inc. (WT) is pleased to present this Statement of Qualifications (SOQ) to be considered on the Arizona Department of Administration State Procurement Office 2015 Annual Professional Services List, Solicitation Number ADSP015-00004729. WT is submitting this SOQ to express our interest in providing **Environmental and Geotechnical Engineering, Construction Materials Testing, Special Inspection, and Nondestructive Testing**. The SOQ summarizes WT's professional capabilities; key staff qualifications; related project experience; and commitment to providing exceptional professional engineering services to all State Agencies and other entities authorized to procure work under this contract.

### **WESTERN TECHNOLOGIES COMPANY INTRODUCTION**

WT, an S Corporation, is a professional consulting engineering firm specializing in environmental engineering, geotechnical engineering, construction materials testing and special inspection services. Since its inception in 1955, WT has grown to become a nationally recognized firm – with approximately 300 employees and 17 full-service offices located throughout Arizona and the Southwestern United States. WT is currently listed among the top 300 engineering firms in the United States. Additionally, WT is licensed with the Arizona Board of Technical Registration (License No. 11078) and is a licensed contractor (Class A-General Engineering License No. R0260996) with the State Registrar's Office.

For nearly 60 years, WT has performed over 10,000 engineering projects involving a wide scope of services across the southwest United States. Unlike our competitors, WT began in Arizona and has grown to 9 offices in Arizona including:

Phoenix  
Tucson  
Flagstaff

Fort Mohave  
Sierra Vista  
Lakeside

Prescott  
Cottonwood  
Lake Havasu City

Because of our coverage throughout Arizona, WT can often respond more quickly and more economically than our competitors. WT believes this is an advantage, particularly to agencies needing the types of services we provide who are not located in a major metropolitan area of the State. As mentioned, WT also maintains offices in Colorado, Nevada, New Mexico, and Utah.

### **WESTERN TECHNOLOGIES STAFF**

The single biggest factor that differentiates WT from its competition is our longevity. WT has served Arizona for nearly 60 years. WT's engineers, inspectors, and technicians have worked together at WT for an average over 10 years and have significant experience conducting geotechnical, environmental, materials testing, special inspection, and nondestructive testing projects throughout Arizona. This continuity allows the same engineers, environmental professionals, and/or construction inspectors on





project after project. Additionally, one of our Principals is a former board member on the Arizona Board of Technical Registration, and several of our staff members also hold positions with the Arizona Board of Technical Registration Enforcement Committee. Consequently, WT adheres to a strict code of ethical standards and professional conduct.

WT has a highly educated and trained staff of Arizona-registered Professional Engineers and Geologists. The majority of our proposed key personnel have engineering, geology, or science degree, and many members have Master of Ph.D. level degrees. In addition, WT's key personnel have successfully completed simple small projects to highly technical and complex engineering projects. Because WT is a multidiscipline firm, WT personnel are cross-trained and are capable of working in more than one service area. WT encourages all of its employees to be cross-trained, allowing flexibility and an increased knowledge base for the client. Due to the knowledge and cross-training of staff, WT is capable of providing staff at various levels to work on multiple projects simultaneously.

Another example of WT's dedication to Quality involves the experience of our staff. WT's staff complete comprehensive in-house training and earn certifications from such organizations as:

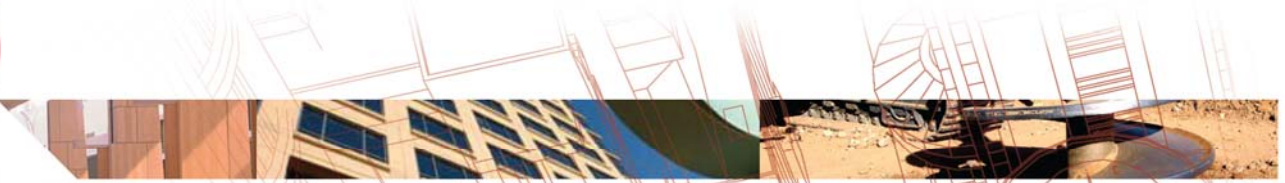
- ICC: International Code Council
- ACI: American Concrete Institute
- ATTI: Arizona Technical Testing Institute
- NICET: National Institute for Certification in Engineering Technologies
- NCMA: National Concrete and Masonry Association
- AWS: American Welding Society
- International Concrete Repair Institute (ICRI)
- ASNT: American Society of Nondestructive Testing



WT has significant experience conducting geotechnical and environmental engineering, materials testing, special inspection, and nondestructive testing projects throughout Arizona. In addition, the key staff members being proposed for this contract are located in offices in Phoenix, Flagstaff, and Tucson and have significant familiarity with their respective local conditions through years of local experience. Resumes of our key staff members that will be available to conduct work under this contract are attached in Form I.

## **WESTERN TECHNOLOGIES QUALIFICATIONS**

WT provides professional environmental and geotechnical engineering, construction materials sampling and testing, special inspection, and nondestructive testing services to a diverse client base such as government and municipal entities, including cities and towns, counties, and state agencies; architects; engineers; developers; financial institutions; educational institutions; industrial and commercial



enterprises; and healthcare facilities. WT possesses the capabilities, experience, and technical expertise to support a broad variety of capital improvement projects, and has provided engineering services worldwide with projects ranging in size from small commercial developments to design and construction oversight of major international airports, roadways and highways, high-rise buildings, dam and tunnels.

Currently WT has on-call environmental, geotechnical, construction materials testing, and nondestructive testing contracts with the Arizona Department of Administration; Arizona Department of Environmental Quality; Arizona Department of Transportation; City of Phoenix; City of Mesa; City of Tempe; City of Tucson; City of Flagstaff; City of Yuma; Maricopa County Department of Transportation; Maricopa County Department of Materials Management; Flood Control District of Maricopa County; Pima County; Pinal County; Arizona State University; University of Arizona; Northern Arizona University. WT has provided professional services to these entities in a timely and cost-effective manner.

### **Environmental Services**

WT has provided clients with a broad range of professional environmental consulting services ranging from due diligence evaluations to assessment and remediation of contaminated properties; from underground storage tank (UST) closure projects to assessment and remediation of soil and/or groundwater impacted by leaking USTs (LUSTs); from initial asbestos surveys to asbestos abatement planning, management, and oversight; from permitting/plan preparation to compliance audits, training, and litigation support. WT has provided environmental services for the regulated industry; public agencies; developers; environmental attorneys; lending and financial institutions; and buyers and sellers of properties or businesses.

For each project, WT designs a scope of work that is specifically tailored to meet our client's needs and the project objectives. WT has the personnel, equipment, and resources capable of providing the full range of services on environmental investigation projects, including identifying critical issues; removing USTs, sumps, oil-water separators, and similar features; investigating and characterizing releases; evaluating regulatory restraints and alternative compliance options; interacting with regulatory agencies; and designing, implement, and monitoring various remedial systems.

Environmental Services include but are not limited to:

- Phase I Environmental Site Assessments in accordance with Standard Practices set forth in ASTM designations E-1527 and E-1528
- Site Investigations to identify sources and extent of soil, water and air contamination
- Remedial feasibility evaluations and implementation of soil and groundwater remediation programs
- Audits for environmental compliance and risk management
- Asbestos/lead surveys and abatement program implementation
- Industrial hygiene services to identify and minimize exposure to physical, chemical, microbial, and biological hazards



- Waste management program design, implementation, and monitoring
- Assessment, remediation, and closure of underground storage tank systems
- Long-term monitoring, sampling and testing services for compliance purposes

### **Geotechnical Services**

The geotechnical evaluation of a proposed site is indispensable to project planning, design and construction. WT's engineers carefully balance the extent of field exploration, laboratory testing, and engineering analysis in terms of construction costs and project requirements. The resulting solutions are technically sound, economically feasible, and responsive to client's needs. This service is provided with the use of a wide variety of exploration equipment under direct supervision of qualified engineers and geologists.

WT's soil and foundation engineering efforts continue to be an essential component of technical services. WT's extensive experience, diverse professional engineering staff and technical resources result in cost-effective geotechnical recommendations compatible with site soil conditions and design specific criteria.

All of WT's geotechnical team members possess histories of geotechnical and/or materials engineering practices. They bring combined experience in one or more of the following practices – design of foundations and retaining walls; determination of the stability of cut and fill slopes; appraising the geology and geologic hazards; evaluating hydrogeological conditions relevant to the project site; interpreting geological and hydrogeological data; providing recommendations for stabilization and avoidance; providing recommendations for erosion control; and inspection and evaluations of structures.

Geotechnical Engineering services include but not limited to:

- Soils and Foundation Investigations
- Geophysical surveys
- Pavement designs
- Dewatering System Design
- Slope stability analysis
- Instrumentation
- Dam / Impoundment Design
- Distress Investigations
- Seepage Analysis and Control
- Flood Control Structure Design
- Shoring Wall Design
- Leak Detection System Design
- Seismic evaluations
- Geomembrane Engineering
- Blast Monitoring
- Grouting Programs
- Bentonite Slurry Cutoff Walls
- Landfill Design Recommendations

### **Construction Materials Testing / Inspection Services**

Every major construction project requires testing of the materials that comprise the project. Test results are always needed, whether for quality control, acceptance, code compliance, or project specifications.



WT has been providing construction materials testing services on projects in the Western United States for nearly 60 years.

Materials engineering and testing services are performed in the field and in WT's modern laboratories manned by experienced engineers and technicians. Equipment and procedures are continually updated to maintain pace with the increasingly complex and varied demands of the public and private sectors. Internal quality control measures are utilized to assure competent performance and accurate measurement.

As previously discussed, WT's engineers and technical staff are individually certified by numerous agencies. WT has tested and performed research on a wide range of materials throughout the United States and the world and has teamed with Universities and Government Agencies. WT offers a unique mix of unsurpassed quality and industry competitive pricing and scheduling.

Construction materials testing services include but are not limited to:

- Construction Quality Assurance
- Quality Assurance Plans and Independent Assurance Testing
- Preconstruction Review-Proposed Concreting Operations, Techniques or Procedures
- Acceptance Laboratory Testing and Evaluation
- Construction Quality Control
- Quality Control Plans and Management
- Materials Testing and Inspection
- Final Quality Control Reports
- Pavement Engineering
- Pavement Evaluation and Condition Reports
- Inspection and Testing Services
- Concrete Mix Designs
- Batch Plant and Truck Observation
- Fresh Concrete Field Testing
- Evaluation of Hardened Concrete
- Asphalt Mix Design and Testing
- Pavement Profilograph
- Superpave Gyrotory Testing, Analysis and Design
- Reclaimed Asphalt Pavement (RAP) Hot Mix Designs
- Asphalt Rubber Binder Design
- Hot Mix Plant Inspections and Calibration
- Aggregate Testing and Evaluation
- Cold Mix In-Place Recycled Design
- Masonry, Grout, and Natural Stone
- Compressive Strength Testing
- Design Mixes for Mortar and Grout
- Soil and Aggregates
- ASTM C33 Compliance Testing
- Soil-Cement and Soil-Lime Mix Designs
- Crumb Rubber and Crack Sealants
- Testing and Evaluation

The structural performance of building materials depends, to a large degree, on the quality of the materials delivered and their placement during construction. To assist the owner, developer, structural engineer, contractor and building official in evaluating the construction process, WT performs those special





inspection services required by the project plans and specifications and the International Building Code (IBC).

Special inspectors are trained and certified to verify such items as structural dimensions, size and placement of reinforcing steel, concrete, grout, or mortar mix designs, materials placement, curing procedures tested in accordance with project and code requirements with appropriate documentation completed by the Special Inspector. WT's contact with local building officials helps to assure that final documentation meets regulatory requirements and that certification of occupancy is provided in a timely manner.

Special Inspectors obtain their certifications through demonstration of the required level of experience and examination by such organizations as the ACI, American Welding Society (AWS), International Code Council (ICC), Masonry Institute of America (MIA), Post-Tensioning Institute (PTI), as well as local and state jurisdictions.

Special Inspection services include but are not limited to:

- Reinforced Concrete
- Structural Masonry
- Prestressed Concrete
- Spray-Applied Fire Resistant Materials
- Mastic and Intumescent Fire Resistant Coating
- Structural Steel and Bolting
- Structural Steel Welding
- Earthwork / Soil Construction
- Wood Framing, Nailing
- Adhered Veneer Systems
- Exterior Insulation and Finish Systems
- Pile and Pier Foundations
- In-Situ Load Tests

## **WESTERN TECHNOLOGIES DESIGN PHILOSOPHY AND APPROACH**

WT's project management philosophy is based on a team concept. For each project, WT will assign a Principal and Project Manager as well as appropriate staff. WT believes this approach provides clients with a high level of expertise, better project management, and consistent review of the project budget. This organizational structure provides for multiple levels of supervision and review of work products, consistent point of contact over time, resulting in high quality services and report for Client.

Scheduling of projects is accomplished in the following manner. Upon award of a project, personnel and resources are allocated to the project by the department director based on the specific project needs and the anticipated schedule. During execution of the project, the Project Manager tracks and maintains the schedule. Most projects are of relatively short duration, and do not require the use of a software program to help maintain the schedule. However, some projects are of longer duration and can last several months to several years. For these types of projects, WT typically uses Microsoft Project to keep track of the schedule. WT also uses this tool when we prepare proposal for our larger and more complicated projects.



Consequently, WT is familiar with the use of Microsoft Project, and has the ability to use it to schedule and track larger projects.

Since WT conducts numerous environmental, geotechnical, construction materials testing and special inspection projects at any given time, it is necessary to review the project workload on a regular basis, and allocate personnel and resources effectively. At a minimum, each of WT's departments hold scheduling meetings on a weekly basis to review the project workload and reallocate personnel and equipment as necessary. During these meetings, potential scheduling conflicts are also anticipated and addressed.

WT understands the need for projects to be completed on time and on budget. Initially each project is set-up in the accounting system, a copy of the project budget is printed and kept in the work file as a constant reminder of the anticipated project cost. From project inception, the WT Project Manager begins tracking and monitoring its progress. WT staff complete daily time sheets to bill time and expense to projects. The Project Manager frequently reviews this information and compares the total billings on a project to the project budget. This allows WT to track and control project costs, providing ample time to discuss potential scope and budget issues with clients in a timely manner. WT stands by its slogan as "**The Quality People**" by meeting and exceeding client expectations.

In an effort to maintain technical competence and timely introduction of current research into practice, WT promotes a strong continuing education program for our professional staff. WT has developed an ongoing training program for its employees to discuss various technical and management topics. Environmental staff have also completed OSHA's 40-hour Hazardous Materials Training, and an annual eight-hour OSHA refresher sessions. Our training includes the American Heart Association First Aid and CPR Training. WT also subcontracts an industrial physician to perform baseline physical exams and annual medical monitoring on all professional environmental employees. WT follows its corporate Health and Safety Program to protect employees on project sites. Safety is taken seriously and WT places a high priority on completing all projects in a safe manner.

WT's approach to problem resolution begins with the start of every job by assigning a Principal of the firm to every project. The Principal is required to take an active role in the project and is always available to our Client should any problem arise during the duration of the project. A Principal of the firm has the authority and responsibility to resolve any problem that may arise to the satisfaction of the client, including attending any necessary meetings, resolving disputes with subcontractors, reassigning staff as needed, adding additional staff if necessary, authorizing overtime to complete projects on time and discounting services to remain within the project budget.

WT's team of professionals has built a solid reputation for engineering excellence, and is structured to deliver responsive, client-oriented services at a reasonable cost. WT is insured and is financially secure and will dedicate the personnel, resources, and effort necessary to respond to any project.