



**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:	Stanley Consultants, Inc.
b. FIRM (OR BRANCH OFFICE) STREET:	1661 East Camelback Road, Suite 400
c. FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d. FIRM (OR BRANCH OFFICE) STATE:	Arizona
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85016
f. YEAR ESTABLISHED:	September 1, 1984
(g1). OWNERSHIP - TYPE:	Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	N/A
h. POINT OF CONTACT NAME AND TITLE:	Steven A. Jimenez, PE, Project Principal
i. POINT OF CONTACT TELEPHONE NUMBER:	602.333.2200
j. POINT OF CONTACT E-MAIL ADDRESS:	Marketing-phoenix@stanleygroup.com
k. NAME OF FIRM (If block 1a is a branch office):	Stanley Consultants, Inc.



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**2. EMPLOYEES BY DISCIPLINE**

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees - Firm	d. No. of Employees - Branch
Administrative	S	181	8
Architect	P	11	
Biologist	P	3	
CADD Technician	S	89	6
Chemical Engineer	P	5	
Civil Engineer	P	45	7
Computer Programmer	S	22	
Construction Inspector	P	79	1
Construction Manager	P	49	7
Control Systems Engineer	P	12	
Cost Engineer/Estimator	P	8	1
Economist	S	1	
Electrical Engineer	P	93	
Environmental Engineer	P	36	2
Environmental Scientist	P	9	
Foundation/Geotechnical Engineer	P	4	
Geographic Information System Specialist	S	7	
Hydraulic Engineer	P	8	1
Land Surveyor	P	18	6
Landscape Architect	P	8	
Mechanical Engineer	P	59	
Oceanographer	P	1	
Planner: Urban/Regional	P	7	1
Reprographics Specialist	S	7	
Structural Engineer	P	64	5
Technician/Analyst	S	51	3
Value Engineer	S	1	
Water Resources Engineer	P	18	3
Specifications Writers	P	1	
Transportation Engineers	P	76	18
Communications Engineer	P	1	
Safety/Occupational Health Engineer	P	1	
Industrial Hygienists	P	1	
<b>Total</b>		976	69



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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)
11	Automation; Controls; Instrumentation	3
18	Cost Estimating; Cost Engineering and Analysis; Parametric Costing; Forecasting	3
3	Electrical Studies and Design	2
2	Environmental Impact Studies, Assessments or Statements	2
10	Fire Protection	2
71	Heating; Ventilating; Air Conditioning	4
78	Industrial Buildings; Manufacturing Plants	8
42	Landscape Architecture	6
4	Plumbing and Piping Design	5
185	Power Generation, Transmission, Distribution	9
9	Prisons and Correctional Facilities	2
25	Structural Design; Special Structures	3
402	Traffic and Transportation Engineering	8
18	Utilities ( <i>Gas and Steam</i> )	5
48	Water Supply; Treatment and Distribution	6
4	Waste Water Treatment Facility	5

**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 Barbara Schwab, PE	b. ROLE IN THIS CONTRACT Transportation Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 33	2. WITH CURRENT FIRM 20
d. LOCATION <i>(City and State)</i> Stanley Consultants, Inc., Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. / Civil Engineering		f. PROFESSIONAL TRAINING – REGISTRATIONS AZ / Civil Engineering ; FL / Civil Engineering; CO / Civil Engineering ; IA / Civil Engineering; ID / Civil Engineering	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Member -- Institute of Transportation Engineers, Kansas Engineering Society; Past Vice President -- ASPE			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>Logo Signing, Section 2; ADOT</b>	2013	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Traffic Engineer. Logo Sign Placement in Urban Areas – Phase 1 - Stanley Consultants worked with Grand Canyon State Logo Signs (GCSLS) and ADOT Traffic Engineering staff to develop engineering plans for the installation of new logo signs in the Phoenix metropolitan area. The project included 32 interchanges. Existing physical features and existing signing were identified within the freeway corridors in order to determine locations of both mainline and ramp logo signing that met the criteria set forth in the MUTCD, ADOT Standard Drawings and ADOT’s Transportation Technology Group (TTG). Stanley Consultants worked with GCSLS and ADOT Traffic Engineering staff on the initial logo signing project in urban areas to develop guidelines for locating logo signs along urban freeways. These guidelines were enhanced and refined during this project. The engineering plans for the 32 traffic interchanges were completed within 60 days of notice to proceed. <i>Total Project Cost: \$201,686</i>	X	Check if project performed with current firm
2.	<b>SR 101L HOV Design Build Oversight; AZ</b>	2011	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Oversight responsible for reviewing freeway lighting and FMS plans for ADOT. Worked with the designer to ensure lighting and FMS plans met ADOT design requirements and performed constructability reviews. <i>Total Project Cost: \$151,618</i>	X	Check if project performed with current firm
3.	<b>SR 24 Williams Gateway Freeway; AZ</b>	2011	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager responsible for managing the traffic engineering design of signing and pavement marking, traffic signals, lighting, FMS and construction zone traffic control. Designed the system interchange lighting adjacent to Gateway airport to meet FAA requirements. <i>Total Project Cost: \$655,876</i>	X	Check if project performed with current firm
4.	<b>SR 202L Design-Build Oversight (Santan Freeway); ADOT</b>	2011	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Oversight responsible for reviewing freeway, signing, pavement marking, traffic signals, lighting, FMS and construction zone traffic control plans for ADOT. Worked with the designer to ensure all traffic plans met ADOT design requirements and performed constructability reviews. <i>Total Project Cost: \$2,628,906</i>	X	Check if project performed with current firm
5.	<b>I-19/Ajo Way (SR 86) Traffic Interchange; ADOT</b>	2015	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This project includes developing the final design and construction plans, specifications, and estimate (PS&E) for a new Traffic Interchange (TI) and ramps at Ajo Way and I-19, a new southbound lane on I-19 between Ajo Way and Irvington Road, a new Irvington Road southbound off-ramp, reconstructing Ajo Way east and west of I-19, and replacing the existing pedestrian bridge structure over I-19 near Michigan Street, and improving drainage at the Rodeo Wash, Irvington Wash, and other locations. Work also includes designing new bridges, roadway excavation, embankment, grading, Portland Cement Concrete Pavement and asphaltic rubber friction course, RCB Culverts, concrete barrier, drainage storm drains, channels and basins, pavement marking; signing, lights and other related work. New right-of-way acquisition for this project will be confirmed. Utility conflict resolution performed as a part of the Ajo Way project will be confirmed. Future facilities will be identified and accommodated within the project. <i>Total Project Cost: \$5,301,786</i>	X	Check if project performed with current firm



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

a. NAME David Sabers, PE	b. ROLE IN THIS CONTRACT Project Manager, Traffic Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 28	2. WITH CURRENT FIRM 6
d. LOCATION <i>(City and State)</i> Stanley Consultants, Inc., Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S.C.E. / Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS AZ / Civil Engineering	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>Logo Signing, Section 2; ADOT</b>	2013	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager - Stanley Consultants worked with Grand Canyon State Logo Signs (GCSLS) and ADOT Traffic Engineering staff to develop engineering plans for the installation of new logo signs in the Phoenix metropolitan area. The project included 12 interchanges on SR101L, 16 interchanges on I-10 and 4 interchanges on I-17. Existing physical features and existing signing were identified within the freeway corridors in order to determine locations of both mainline and ramp logo signing that met the criteria set forth in the MUTCD, ADOT Standard Drawings and ADOT's Transportation Technology Group (TTG). Stanley Consultants worked with GCSLS and ADOT Traffic Engineering staff on the initial logo signing project in urban areas to develop guidelines for locating logo signs along urban freeways. The engineering plans for the 32 traffic interchanges were completed within 60 days of notice to proceed. <i>Total Project Cost: \$201,686</i>	X	Check if project performed with current firm
2.	<b>Cable Barrier; AZ Game and Fish</b>	2011	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager/Lead Traffic Engineer responsible for the development of design standards for off-road vehicle and pedestrian restraints including fencing, gates, and alternative barricading concepts. <i>Total Project Cost: \$21,067</i>	X	Check if project performed with current firm
3.	<b>Reems Road Traffic Signal; City of Surprise</b>	2013	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Principal. Stanley Consultants prepared and implemented three traffic signal timing plans for seven intersections on Reems Road in Surprise, AZ. The work included generating new coordination plans for AM, MD and PM peak periods. Intersection analysis and system analysis was completed using SYNCHRO and SIMTRAFFIC software. Analysis included review of time-space diagrams, identified platoons on the major street were being stopped, identified locations where excessive queuing occurred and evaluated the locations for lagging left-turns. <i>Total Project Cost: \$38,836</i>	X	Check if project performed with current firm
4.	<b>Mesa Fiesta District Transportation Study; Mesa, AZ</b>	2011	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager responsible for traffic study including the investigation of alternative lane configurations for Southern Avenue. Project tasks included extensive coordination with adjacent business owners, presentations to City staff, and development of future traffic volumes. <i>Total Project Cost: \$97,068</i>	X	Check if project performed with current firm
5.	<b>Lake Pleasant Parkway, Westwing to SR303 Design-Build; Peoria, AZ</b>	2015	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Principal. Technical proposal included traffic and structural design, providing traffic and structural quantities, lighting analysis and plan production, construction staging and traffic control evaluation, technical proposal write up. The project is described as widening of 2.6 miles of Lake Pleasant Parkway from a two lane rural roadway to a 4 lane divided urban major arterial in Peoria, Arizona. The traffic work includes pavement marking design, signing design, signal design at Westwing Parkway and Lake Pleasant Parkway, ITS design, lighting photometric analysis, street lighting design, construction staging, traffic control, and plan production. <i>Total Project Cost: \$283,877</i>	X	Check if project performed with current firm



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

a. NAME Michael Lopez, PE	b. ROLE IN THIS CONTRACT Project Manager, Street Transportation	c. YEARS EXPERIENCE	
		1. TOTAL 30	2. WITH CURRENT FIRM 10
d. LOCATION <i>(City and State)</i> Stanley Consultants, Inc., Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> M.B.A. / Business; B.S. / Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS AZ / Civil Engineering	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>Alley Paving; City of El Mirage</b>	2013	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager responsible for managing the design team for the preparation of plans, specifications, and estimate for the paving of alleys in the City of El Mirage. Project requires close coordination with ADOT local governments to receive federal funding. <i>Total Project Cost: \$153,348</i>	X	Check if project performed with current firm
2.	<b>Low Volume Roads; AZ US</b>	2010	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager responsible for managing the design team for the preparation of plans, specifications, and estimate for the paving of multiple Low Volume Roads. <i>Total Project Cost: \$144,658</i>	X	Check if project performed with current firm
3.	<b>Dysart Road On-Call; MCDOT</b>	2010	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager responsible included updating traffic study and developing concept alternatives for the development of 3 miles of arterial road to a fully improved six-lane urban section with raised median, concrete curb and gutters, closed storm drain, lighting, signing, and intersection configurations. Project also included developing new intersection configurations including dual left turn lanes for 3 major intersections. The project required close coordination with the Cities of Avondale, Litchfield Park, <i>Total Project Cost: \$198,767</i>	X	Check if project performed with current firm
4.	<b>On-Call Projects; City of Phoenix</b>	2010	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Stanley Consultants designed and prepared City permit applications for a new decorative concrete, masonry, and steel entry monument for Encanto Park's Encanto Boulevard entrance. Structure included foundations and pylons to support arched metal entry signage above the entryway. Design was coordinated with landscape plans to incorporate colored concrete caps, colored architectural masonry, and embedded tiles to provide a grand entrance to the park in preparation for the park's 75th anniversary celebration. <i>Total Project Cost: \$272,950 (fee)</i>	X	Check if project performed with current firm
5.	<b>Northern Parkway Reems Road Overpass; MCDOT</b>	2013	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Principal. Northern Parkway is a federally funded "Major Project" that will ultimately be a 12-mile long, six-lane access-controlled urban principle arterial connecting SR 303L with Grand Avenue (US 60).  This project improves the Northern Parkway at Reems Road to provide a grade separated intersection. The improvements consist of providing the ultimate three-span bridge crossing and the mainline bridge approaches with full access control. This includes construction plans, specifications, special provisions, field surveys, geotechnical reports, construction quantities including earthwork, construction cost estimates, calculations, utility considerations and the preparation of all bid documents. <i>Total Project Cost: \$422,701</i>	X	Check if project performed with current firm



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

a. NAME Isaac McCullough, PE	b. ROLE IN THIS CONTRACT Transportation Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 14	2. WITH CURRENT FIRM 6
d. LOCATION <i>(City and State)</i> Stanley Consultants, Inc., Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. / Civil Engineering; A.S. / Surveying Technology		f. PROFESSIONAL TRAINING - REGISTRATIONS AZ / Land Surveyor-in-Training; AZ / Civil Engineering	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Low Volume Roads; MCDOT</b>	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer responsible for design of unpaved low volume roads into two lanes of paved local roads all throughout Maricopa County. Work included developing design and construction schedules, identifying and resolving utility conflicts, coordinate right-of-way acquisition, calculate construction quantities, and generating final P.S.&E construction documents. <i>Total Project Cost: \$144,658</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Yuma Road Estrella Parkway to Litchfield Roadway; City of Goodyear</b>	(2) YEAR COMPLETED	
		Professional Services 2008	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The project included preparing a Design Concept Report and 30% design plans to improve an existing two-lane road to a divided six-lane facility. The project included performing a traffic analysis, conducting a drainage analysis and coordination with the Phoenix/Goodyear Airport, UPRR, Flood Control District, and multiple developments along the corridor. The two plus mile project included a bridge crossing over Bullard Wash, a railroad crossing of the Litchfield Lead, intersection configuration for two future signalized intersection, raised landscaped medians, a storm drain system, signing & striping and lighting concept and identifying additional right-of-way needs. <i>Total Project Cost: \$294,649 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Northern Parkway Reems Road Overpass; MCDOT</b>	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Roadway engineer responsible for the design of the mainline approaches for an ultimate three-span bridge crossing with full access control at the grade separated intersection of Northern Parkway and Reems Road. Work included the preparation of final construction plans, special provisions, construction quantities including earthwork, construction cost estimates, calculations, utility considerations and the preparation of all bid documents. <i>Total Project Cost: \$422,701</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Sonoqui Wash Channelization II; FCDMC</b>	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The Sonoqui Wash Channelization Phase II project includes preparation of design plans and specifications for 3.5 miles of flood control channel passing through the Town of Queen Creek and unincorporated county land in southeastern Maricopa County. Multiple alignment alternatives for Phase II improvements were developed as well as an assessment of Phase III alignments to evaluate confluence locations for the East Branch and the Main Branch. <i>Total Project Cost: \$2,202,604 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>SR 89A Sedona Lighting; AZ</b>	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project included roadway lighting, traffic signal, intersection improvements and right-turn widening. As part of considering installation of continuous highway lighting along this segment of roadway and installation of a traffic signal at the intersection of SR 89A and Andante Drive, Stanley completed the following major work elements: Project Assessment, Pedestrian Crosswalk Warrant Study, Lighting Design Criteria Assessment Study, and Lighting Design Concept Report. <i>Total Project Cost: \$1,616,736 (fee)</i>	<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 Jay Horak, PE	b. ROLE IN THIS CONTRACT Water/Waste Water Design Construction Services Manager	c. YEARS EXPERIENCE	
		1. TOTAL 24	2. WITH CURRENT FIRM 10
d. LOCATION <i>(City and State)</i> Stanley Consultants, Inc., Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> M.Eng. / Civil Engineering; B.S. / Civil Engineering; B.S. / Engineering and Public Policy; B.S. / Chemistry		f. PROFESSIONAL TRAINING - REGISTRATIONS AZ / Civil Engineering	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Pipeline Assessment and Certification Program (PACP); Manhole Assessment and Certification Program (MACP); OSHA 10-Hour Training Course.			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Zone 1, 1A &amp; 2 Infrastructure Improvements; City of Phoenix</b>	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) 2011
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Project consists of detailed design for over 3 miles of water line ranging from 16-inch to 36-inch. The route is through a residential section and includes 32nd Street, Oak Street, 42nd Street, and Thomas Road. The western terminus of the project ties into the developer project at 32nd Street and Osborn. Project elements include the following: plan and profile of water line; city standard details and project specific details; project specifications based on City's Streets Department standards; coordination with PRV designer and pump station designer; coordination with CM at Risk contractor; significant utility coordination required; and significant public education program required. The project will create a new pressure zone to relieve pressure concerns at the current Zone 1/Zone 2 boundary line. <i>Total Project Cost: \$726,130</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Lift Station Process Control Optimization; City of Phoenix</b>	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Construction Services Manager responsible for overseeing Stanley Consultants' contract with the City of Phoenix. <i>Total Project Cost: \$61,574</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Construction Administration and Inspection Services; NJ US</b>	(2) YEAR COMPLETED	
		Professional Services 2008	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Construction Services Manager responsible for overseeing the construction administration and inspection services for this \$1.3 million dollar project. <i>Total Project Cost: \$172,443 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Zone 2S 16-Inch Waterline Transmission Main (Euclid Avenue from 7th Avenue to 7th Street). Construction Administration Services; City of Phoenix, AZ</b>	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager for this Design-Bid-Build project, Stanley provided design, shop drawing review, response to information request, meeting participation and special inspection services for the one-mile of 16" water line. Specific special field inspection for the construction of two cut in tees for two active 20" water transmission mains. These cut in tees were specifically fabricated for this project and needed to be completed in a timely fashion, and were successfully constructed and tested to meet a higher standard of compliance. <i>Total Project Cost: \$842,700</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Sewer Improvements Phases 2A, 2B and 2C; City of Phoenix</b>	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager responsible for overseeing the full-time third-party construction administration and inspection services for this \$18.2 million project. <i>Total Project Cost: \$3,586,249</i>	<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 Larry Leischner, PE	b. ROLE IN THIS CONTRACT Senior Project Manager, Water / Waste Water	c. YEARS EXPERIENCE	
		1. TOTAL 29	2. WITH CURRENT FIRM 12
d. LOCATION (City and State) Stanley Consultants, Inc., Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S. / Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS AZ / Civil Engineering	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Member - AZ Water Association, Water Distribution Subcommittee			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION (City and State) <b>Relief Sewers Study and Design; City of Phoenix</b>	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Stanley Consultants provided study and final design services for the four locations which the client determined were over capacity or potentially over capacity in the sanitary sewer system. The study portion of the project included field verification of the sewer slopes, identification of the problem areas and selection of a solution. Solutions have included the replacement of approximately one mile of 12-inch sewer with 18-inch to 21-inch sanitary sewer in a new alignment. <i>Total Project Cost: \$223,343 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION (City and State) <b>Final Design for Lake Pleasant Water Line; City of Phoenix</b>	(2) YEAR COMPLETED	
		Professional Services 2005	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager responsible for the alignment study and preliminary design for 45,000 linear feet of double barrel 78" and 25,000 linear feet of 42" water transmission main. <i>Total Project Cost: \$1,219,309 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION (City and State) Water Hammer Hazard Mitigation Project; Sewerage and Water Board of New Orleans	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Technical Manager responsible for coordination, hydraulic modeling, surge mitigation, preliminary design, final design and bid services for a 320 MGD potable water booster pump station improvements at the Carrollton WTP. The project is currently on-going completing the preliminary design phase of the project. The project design includes removal and replacement of eight 40 to 50 MGD horizontal split case pumps with 1500 HP electric motor drives. Other project responsibilities include benefit cost analysis, electrical power alternative analysis, and coordinating five subconsultant task activities. <i>Total Project Cost: \$2,490,948</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION (City and State) <b>Wastewater Treatment Plant Upgrade; Iowa City, IA</b>	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Environmental Value Engineer for the Phase I construction that will increase the South Plant's capacity from 10 mgd to 25 mgd. The Phase I expansion cost is estimated at \$47.7 million. The seven member VE team generated, evaluated, and ranked 42 ideas. Estimated savings from individual proposals ranged from \$8,000 to \$2,000,000. Cost savings was computed on both an initial and life-cycle cost basis. <i>Total Project Cost: \$5,758,000 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION (City and State) <b>LS57 Upgrades; City of Phoenix</b>	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project included a preliminary design report, maintenance of plant operations (MOPO), final contract documents, and cost estimate. Main design components included lift station historical flow analysis; hydraulic analysis; demolition; site work; pumps, valves and piping replacement; wet well lining assessment and replacement; service entrance section, motor control center, process control panel and automatic transfer switch replacement, new terminal boxes, cabling and conduits; and relocation of the process logic controller cabinet. <i>Total Project Cost: \$145,710</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm



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**Phoenix, Arizona 85007**

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

a. NAME Christopher A. D'Arcangelis, PE	b. ROLE IN THIS CONTRACT Water Resources Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 28	2. WITH CURRENT FIRM 13
d. LOCATION <i>(City and State)</i> Stanley Consultants, Inc., Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. / Civil Engineering; A.A.S. / Surveying		f. PROFESSIONAL TRAINING - REGISTRATIONS AZ / Civil Engineering	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> American Public Works Association and Society of American Military Engineers - Member.			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>McDowell Storm Drain Design On-Call; Avondale, AZ</b>	2014	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager responsible for leading the design of the onsite storm sewer systems for 3/4 mile of roadway improvements along McDowell Road. Coordinated design efforts with the City of Avondale and prime consultant for the project. <i>Total Project Cost: \$36,448</i>	X	Check if project performed with current firm
2.	<b>Value Engineering for I-19 Sahuarita TI VA Study; ADOT</b>	2013	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Value Engineering Team Member provided input for project drainage facilities and other related disciplines including roadway, structures, construction, and traffic. Prepared recommendations for further evaluation for the final design team. <i>Total Project Cost: \$132,648</i>	X	Check if project performed with current firm
3.	<b>Infrastructure Master Plan Update; Tempe, AZ</b>	2011	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Lead Water Resources Engineer responsible for updating the master plan on three campuses of ASU: Tempe, ASU West and downtown. Work included reviewing the existing storm water management facilities, devised alternatives of storm water facilities for future campus expansions. Prepared the W strategies for the utility master plan update. Provided recommendations to the client for future low impact development strategies storm water management. Coordinated with the client all project needs and requirements. <i>Total Project Cost: \$187,800</i>	X	Check if project performed with current firm
4.	<b>SR 89-SR 89A to South Chino Limits; ADOT</b>	2013	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Drainage Engineer responsible for checking the offsite and onsite drainage design as well as final construction plans. <i>Total Project Cost: \$2,325,439</i>	X	Check if project performed with current firm
5.	<b>I-19/Ajo Way (SR 86) Traffic Interchange; Tucson, AZ</b>	2015	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This project includes developing the final design and construction plans, specifications, and estimate (PS&E) for a new Traffic Interchange (TI) and ramps at Ajo Way and I-19, a new southbound lane on I-19 between Ajo Way and Irvington Road, a new Irvington Road southbound off-ramp, reconstructing Ajo Way east and west of I-19, and replacing the existing pedestrian bridge structure over I-19 near Michigan Street, and improving drainage at the Rodeo Wash, Irvington Wash, and other locations. Work also includes designing new bridges, roadway excavation, embankment, grading, Portland Cement Concrete Pavement and asphaltic rubber friction course, RCB Culverts, concrete barrier, drainage storm drains, channels and basins, pavement marking; signing, lights and other related work. New right-of-way acquisition for this project will be confirmed. Utility conflict resolution performed as a part of the Ajo Way project will be confirmed. Future facilities will be identified and accommodated within the project. <i>Total Project Cost: \$5,301,786</i>	X	Check if project performed with current firm



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

a. NAME Todd J. Ligon	b. ROLE IN THIS CONTRACT Principal Environmental Planner	c. YEARS EXPERIENCE	
		1. TOTAL 28	2. WITH CURRENT FIRM 4
d. LOCATION <i>(City and State)</i> Stanley Consultants, Inc., Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.Arch. / Architecture		f. PROFESSIONAL TRAINING - REGISTRATIONS	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> NEPA Training held at UDOT, presented by the National Highway Institute and FHWA (2011).			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>Alley Paving; City of El Mirage</b>	2013	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Environmental Planner responsible for coordinating all the environmental studies and preparation of the Categorical Exclusion (NEPA). <i>Total Project Cost: \$153,348</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Alternative Project Delivery Administration Consultant; ADOT	2012	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Environmental Planner responsible for environmental coordination. <i>Total Project Cost: \$2,071,592 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>U.S. 191 Segment V Design-Build Oversight; ADOT</b>	2012	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Environmental Planner responsible for review of environmental documents and design plans to ensure project compliance with environmental requirements. <i>Total Project Cost: \$366,710</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> On Call Tuthill Road Bridge Scour; AZ	2012	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Environmental Planner responsible for coordinating all the environmental studies and preparation of the Categorical Exclusion (NEPA). <i>Total Project Cost: \$2,412,910 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Bush Highway Scoping; AZ</b>	2012	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Environmental Planner responsible for coordinating with the project team and the Tonto National Forest to ensure consideration of all resources and Forest requirements during project scoping and design. <i>Total Project Cost: \$110,487</i>	<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 Frederick L. Rouse Jr, PE	b. ROLE IN THIS CONTRACT Senior Environmental Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 41	2. WITH CURRENT FIRM 20
d. LOCATION <i>(City and State)</i> Stanley Consultants, Inc., Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. / Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS AZ / Civil Engineering	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Member - Water Environment Federation (WEF); American Society of Civil Engineers (ASCE); and Arizona Water Association (AZWA).			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Well Equipping Design; Confidential Client	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer responsible as Technical lead for design of two well equipping projects for EPCOR Water Arizona (NEAF Well #100.3 and SC Well #8.3B. Well 3B to include chlorine disinfection. Well 100.3 is designed for 1,600 gpm capacity and preliminary design for Well 3 8.3B is 1,550 gpm. Both projects include a design concept report. Deep Well Pump Control Valves in conjunction with Solenoid Discharge Check Valves were provided for surge control. Onsite detention and dry well is provided at Well #100.3 and detention only is provided at Well #8.3B. <i>Total Project Cost: \$165,813</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>South Mountain Recharge Project Post Design Services</b>	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager responsible for construction phased services: responding to Request for Information (RIFs) and coordinate with other disciplines to obtain RFI responses from the CAP field personnel. <i>Total Project Cost: \$8,248</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> SR 24 Williams Gateway Freeway; ADOT	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Design Engineer responsible for relocation of 16-inch diameter water and 10-inch diameter force main to avoid drainage structure. Prepared design of future irrigation waterlines and meter setups. <i>Total Project Cost: \$8,389,405</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Zone 19 Reservoir and Pump; Prescott, AZ</b>	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager responsible for the design of the Zone 19 Pump Station with a design capacity of 1,200 gpm with three pumps running and one standby pump. <i>Total Project Cost: \$222,432</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Relief Sewers Study and Design; City of Phoenix</b>	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Design Engineer responsible for assisting with finalizing the 95% plans and specifications for the City of Phoenix Northern Ave Relief Sewer Project. Work Tasks included relocating Relief Sewer, additional potholes, upsize of Air Jumper Pipe from 16" to 22" OD. <i>Total Project Cost: \$223,343 (fee)</i>	<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 Brian Davis, PE, SE	b. ROLE IN THIS CONTRACT Structural Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 33	2. WITH CURRENT FIRM 16
d. LOCATION <i>(City and State)</i> Stanley Consultants, Inc., Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. / Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS AZ / Civil Engineering; AZ / Structural Engineering	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Arizona DOT Project Management Training			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Pedestrian Bridge; Chandler, AZ</b>	(2) YEAR COMPLETED	
		Professional Services 2009	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Structural Engineer responsible for structural review of the foundation design for various superstructure alternatives. <i>Total Project Cost: \$95,166 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Magma Flood Retarding Structures; Pinal County, AZ</b>	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Structural Engineer responsible for design checking and quality control reviews for the Magma FCD FRS principle spillway pipe extension and new inlet and outlet structures. <i>Total Project Cost: \$41,863 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> LPP, Westwing to SR303 Design-Build; Peoria, AZ	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Stanley Consultants is responsible for preparing technical proposal associated with Peoria, Lake Pleasant Parkway Design-Build. Technical proposal included traffic and structural design, providing traffic and structural quantities, lighting analysis and plan production, construction staging and traffic control evaluation, technical proposal write up. The project is described as widening of 2.6 miles of Lake Pleasant Parkway from a two lane rural road to a 6 lane divided urban parkway in Peoria, Arizona. Structural design includes design associated with TK Wash equestrian drainage structure and plans. <i>Total Project Cost: \$283,877</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Northern Parkway Reems Road Overpass; AZ</b>	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. This project improves the Northern Parkway at Reems Road to provide a grade separated intersection. The improvements consist of providing the ultimate three-span bridge crossing and the mainline bridge approaches with full access control. This includes construction plans, specifications, special provisions, field surveys, geotechnical reports, construction quantities including earthwork, construction cost estimates, calculations, utility considerations and the preparation of all bid documents. <i>Total Project Cost: \$422,701</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION <i>(City and State)</i> I-19/Ajo Way (SR 86) Traffic Interchange; Tucson, AZ	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This project includes developing the final design and construction plans, specifications, and estimate (PS&E) for a new Traffic Interchange (TI) and ramps at Ajo Way and I-19, a new southbound lane on I-19 between Ajo Way and Irvington Road, a new Irvington Road southbound off-ramp, reconstructing Ajo Way east and west of I-19, and replacing the existing pedestrian bridge structure over I-19 near Michigan Street, and improving drainage at the Rodeo Wash, Irvington Wash, and other locations. Work also includes designing new bridges, roadway excavation, embankment, grading, Portland Cement Concrete Pavement and asphaltic rubber friction course, RCB Culverts, concrete barrier, drainage storm drains, channels and basins, pavement marking; signing, lights and other related work. New right-of-way acquisition for this project will be confirmed. Utility conflict resolution performed as a part of the Ajo Way project will be confirmed. Future facilities will be identified and accommodated within the project. <i>Total Project Cost: \$5,301,786</i>	<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 Ted W. Smithwick, PE	b. ROLE IN THIS CONTRACT Transportation Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 7	2. WITH CURRENT FIRM >1
d. LOCATION <i>(City and State)</i> Stanley Consultants, Inc., Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. / Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS AZ / Civil Engineering	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>On-Call Services; Arizona Department of Transportation</b>	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer. Provided safety mitigation: Beulah Boulevard Bike Lane Design; SR 95/Cienega Spring Road Intersection Improvements MP 149.2 and SR 87; and Slate Creek Curve and Truck Escape Ramp MP 226–MP 229. <i>Total Project Cost: \$ 1,900,909</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>I-10: Ruthrauff To Ina, Tucson, AZ</b>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer. Worked with ADOT, in conjunction with FHWA, and the Regional Transportation Authority in Pima County to make improvements to six miles of Interstate 10 (I-10) between the Ina Road TI and the Ruthrauff Road TI. Ted focused on FMS and traffic signal design for this project. <i>Total Project Cost: N/A</i>	<input type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Rio Rico and Pendleton Intersection, Tucson, AZ</b>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Working with ADOT Tucson District, Ted managed this local government project and oversaw design and schedule elements of the intersection modifications of Rio Rico Drive and Pendleton Drive in Santa Cruz, Arizona. The project included re-aligning the Pendleton Drive approaches, adding left turn lanes in all approaches, installation of a new traffic signal, and drainage modification improvements. <i>Total Project Cost: N/A</i>	<input type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Tangerine Road Final Design, Marana, AZ</b>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer for a five mile section of Tangerine Road from Dove Mountain Boulevard/Twin Peaks to La Canada Drive. Improvements included widening of Tangerine Road, including, horizontal and vertical alignment, identification of right(s)-of-way acquisition areas, identification and resolution of drainage conveyance issues, geotechnical analysis, pedestrian/alternative transportation lanes and landscaping and irrigation. Ted's role included assisting with right-of-way and striping drafting. <i>Total Project Cost: N/A</i>	<input type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Cañada Del Oro Shared Use Path, Oro Valley, AZ</b>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer. This enhancement project connects existing sections of the Cañada Del Oro wash multi-use path through the Town of Oro Valley. The project included an asphalt path to be constructed along the existing bank protection and will include a pedestrian bridge and landscape improvements. Ted was the lead design engineer for this project. <i>Total Project Cost: N/A</i>	<input type="checkbox"/>	Check if project performed with current firm



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

a. NAME Charles Joy, PE, CFM	b. ROLE IN THIS CONTRACT Water Resources Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 20	2. WITH CURRENT FIRM 10
d. LOCATION <i>(City and State)</i> Stanley Consultants, Inc., Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. / Civil Engineering; B.S. / Management		f. PROFESSIONAL TRAINING – REGISTRATIONS AZ / Civil Engineering / Certified Floodplain Manager	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Member - Association of State Floodplain Managers.; Newsletter Committee - Arizona Floodplain Management Association (AFMA).; Member - Association of State Floodplain Managers			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>Encanto Entrada; City of Phoenix</b>	2010	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Stanley Consultants designed and prepared City permit applications for a new decorative concrete, masonry, and steel entry monument for Encanto Park's Encanto Boulevard entrance. Structure included foundations and pylons to support arched metal entry signage above the entryway. Design was coordinated with landscape and drainage plans to incorporate colored concrete caps, colored architectural masonry, and embedded tiles to provide a grand entrance to the park in preparation for the park's 75th anniversary celebration. <i>Total Project Cost: \$272,950 (fee)</i>	X	Check if project performed with current firm
2.	<b>Traffic Safety On Call Beulah Boulevard Bike Lane; ADOT</b>	2014 est	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The project is to reconfigure Beulah Boulevard to accommodate bike lanes by retrofitting the roadway features on the existing 5-lane Minor Arterial roadway with center raised median. The project limits are from the intersection of Woodlands Village Blvd and Beulah Blvd to the intersection of McConnell Drive and Beulah Blvd, approximately 1,200 feet in length. This project will be developed in two phases; Phase I – Scoping and Phase II – Design. The scoping phase will include a Scoping Letter. The design phase will include preparation of final plans, special provisions, and cost estimate (PS&E). <i>Total Project Cost: \$706,904</i>	X	Check if project performed with current firm
3.	<b>Hohokam Area Drainage MSP Flood Control District of Maricopa County</b>	2013	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager ongoing regional planning study to identify existing flooding conditions, develop flood mitigation alternatives, and develop recommendations for future flood control improvements. <i>Total Project Cost: \$1,116,881 (fee)</i>	X	Check if project performed with current firm
4.	<b>I-19/Ajo Way (SR 86) Traffic Interchange; Tucson, AZ</b>	2015	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This project includes developing the final design and construction plans, specifications, and estimate (PS&E) for a new Traffic Interchange (TI) and ramps at Ajo Way and I-19, a new southbound lane on I-19 between Ajo Way and Irvington Road, a new Irvington Road southbound off-ramp, reconstructing Ajo Way east and west of I-19, and replacing the existing pedestrian bridge structure over I-19 near Michigan Street, and improving drainage at the Rodeo Wash, Irvington Wash, and other locations.  Work also includes designing new bridges, roadway excavation, embankment, grading, Portland Cement Concrete Pavement and asphaltic rubber friction course, RCB Culverts, concrete barrier, drainage storm drains, channels and basins, pavement marking; signing, lights and other related work. New right-of-way acquisition for this project will be confirmed. Utility conflict resolution performed as a part of the Ajo Way project will be confirmed. Future facilities will be identified and accommodated within the project. <i>Total Project Cost: \$5,301,786</i>	X	Check if project performed with current firm
5.	<b>SR 24 Williams Gateway Freeway; AZ US</b>	2011	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer responsible for providing in-house review of preliminary drainage calculations. <i>Total Project Cost: \$8,389,405</i>	X	Check if project performed with current firm



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

a. NAME Scott Rasmussen, PE	b. ROLE IN THIS CONTRACT Water Resources Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 20	2. WITH CURRENT FIRM 14
d. LOCATION (City and State) Stanley Consultants, Inc., Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S.E. / Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS AZ / Civil Engineering	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Member - Arizona Floodplain Management Association (AFMA); and Engineers Without Borders.			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>Gilbert Road Bridge Scour On-Call; MCDOT</b>	2011	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Stanley Consultants performed the scour calculations and hydraulic analysis associated with the existing 20-span, 1,300-foot long, Gilbert Road bridge over the Salt River. Scour analysis was performed using HEC-18, Evaluating Scour at Bridges to determine the local hydraulic characteristics of the Salt River and the stability of the bridge for the 5, 10, 25, 50, and 100-year storm events. Several scour components were analyzed including: general, bend, local, pier, abutment, bed-form as well as long term degradation. <i>Total Project Cost: \$62,832</i>	X	Check if project performed with current firm
2.	<b>Bridge Scour Program; PR</b>	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Stanley Consultants provided a Phase I analysis team to review field notes and photos to determine scour potential at bridge structures and to recommend the next phase. The project included data collection, site visits, hydrologic and hydraulic analysis, geotechnical and structural assessment, and preparing Plans of Action for recommending countermeasures at scour critical bridges. Bridge Channel Profiles and Cross-sections were created using AutoCAD 2010 and ArcGIS 10. <i>Total Project Cost: \$2,658,002</i>	X	Check if project performed with current firm
3.	<b>SR 89-SR 89A to South Chino Limits; AZ</b>	2013	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project involved the design of proposed improvements, which will fully reconstruct the existing main street in Chino Valley, to a four-lane raised median section. The design will accommodate the addition of a future travel lane and right-turn lanes with concrete curb and gutter and sidewalk. <i>Total Project Cost: \$2,325,439</i>	X	Check if project performed with current firm
4.	<b>US 60 Grand Avenue/SR303L Final Design; ADOT</b>	2013	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project consists of final design of the US 60 Grand Avenue/SR303L in Phoenix, Arizona. The scope of work includes improving two miles of the SR303L corridor and ¾- mile of US 60. The project also includes replacing the existing signalized intersection with a system traffic interchange that will provide direct connectivity between US 60 (Grand Avenue) and SR303L to better serve the transportation needs of the Valley. <i>Total Project Cost: \$2,984,710</i>	X	Check if project performed with current firm
5.	<b>SR 24 Williams Gateway Freeway; AZ</b>	2011	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This \$100 million project included the design of a four-level fully directional urban freeway TI; over a mile of new urban freeway; an interim half urban diamond TI; widening existing SR202L; and a half-mile of arterial roadway reconstruction. The project included a drainage system with multi-cell RCBCs, concrete lined channel and storm drain. <i>Total Project Cost: \$8,389,405</i>	X	Check if project performed with current firm





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

a. NAME Gary J. Melita, PE	b. ROLE IN THIS CONTRACT Senior Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 24	2. WITH CURRENT FIRM 20
d. LOCATION <i>(City and State)</i> Stanley Consultants, Inc., Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> M.S. / Construction Management/Engineering B.S. / Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS AZ / Civil Engineering	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Member - American Society of Civil Engineers.			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>Pedestrian Bridge; City of Chandler</b>	2009	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager responsible for managing scope, schedule, and budget. Designed median pier for future Galveston Street pedestrian bridge. Coordinated with subconsultant to determine four possible superstructure alternatives. <i>Total Project Cost: \$95,166 (fee)</i>	X	Check if project performed with current firm
2.	<b>SR 89A Sedona Lighting; ADOT</b>	2012	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager responsible for contract management and several transportation safety related project task orders with design fees ranging from \$25K to \$500K. <i>Total Project Cost: \$1,616,736 (fee)</i>	X	Check if project performed with current firm
3.	<b>I-10 Rock Outcropping; ADOT</b>	2014	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Project consisted of safety mitigation. <i>Total Project Cost: \$1,354,289</i>	X	Check if project performed with current firm
4.	<b>SR 89-SR 89A to South Chino Limits; ADOT</b>	2013	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The project involved the design of proposed improvements, which will fully reconstruct the existing main street in Chino Valley, to a four-lane raised median section. The project included the design of a multi-lane roundabout through a major. Coordination with modern roundabout expert was required to optimize traffic demands and design vehicular movements. The project includes extensive utility coordination and relocation is required for overhead electric, gas, and communications utilities. The project will require new right-of-way for crossroad improvements, environmental clearance, and coordination with Yavapai County, City of Chino Valley, and ADOT's Prescott District. <i>Total Project Cost: \$2,325,439</i>	X	Check if project performed with current firm
5.	<b>SR 24 Williams Gateway Freeway; ADOT</b>	2011	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager and Lead Roadway Engineer responsible for the design of a system to system traffic interchange and freeway segment with one service traffic interchange, 10 structures, retaining walls, on and off-site drainage facilities, lighting, signalization, signing/markings and relocations to public utilities. <i>Total Project Cost: \$8,389,405</i>	X	Check if project performed with current firm



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

a. NAME Lynn Bailey, P.E., LEED@A.P.	b. ROLE IN THIS CONTRACT Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 29	2. WITH CURRENT FIRM 7
d. LOCATION <i>(City and State)</i> Stanley Consultants, Inc., Centennial, CO			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. / Mechanical Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Mechanical Engineer, AZ, FL, CO; Cert. / Certified Energy Mgr / LEED® Accredited Pro	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Past President - Association for Facilities Engineering (AFE), Phoenix Chapter. Member – Pi Tauigma Honorary Society; Southwest Plant Engineering Conference (former Education Chairman); Association of Energy Engineers (AEE); and U.S. Green Building Council (USGBC).			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>ASU Utility Tunnel Systems Evaluation, Arizona State University, Tempe, AZ</b>	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Stanley Consultants will provide engineering services to study and evaluate ASU's mechanical systems located within the campus utility tunnels and the utility tunnels structural integrity. The assessment included visual observations and ultrasonic pipe testing. The assessment was limited to within the utility tunnel where the systems were visible. The major utility tunnel systems and elements, most critical to University operations, to be inspected and evaluated included the following; steam and condensate system, chilled water system, piping supports, all systems, and utility tunnel concrete structure. The minor utility tunnel systems and elements to be inspected and evaluated will include the following; fire protection system, reverse osmosis (demineralized) water system, hot water system., soft water system, domestic water system, insulation, all systems, tunnel ventilation, and tunnel emergency egress. <i>Total Project Cost: \$200,000 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Central Plant Cooling Tower Blowdown Reuse; Arizona State University; Tempe, AZ</b>	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Stanley Consultants evaluated the blowdown water quality to determine potential water re-use solutions that were more consistent with ASU's commitment to sustainability. The study evaluated the existing conditions within the Central Plant and their impacts to the blowdown system. The blowdown water options were evaluated against initial capital costs, ongoing maintenance costs and efforts, percent reduction in wastewater volume, and environmental impacts of a new system (i.e., additional energy consumption, generation of landfill waste, etc.). The evaluated options included landscape irrigation, dust control, cooling tower makeup, boiler makeup, nanofiltration/reverse osmosis, zero liquid discharge processes, and grey water plumbing systems. <i>Total Project Cost: \$187,800 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Infrastructure Master Plan Update; Arizona State University; Tempe, AZ</b>	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Stanley Consultants was responsible for preparation of an Arizona State University infrastructure master plan that addressed the requirements, layout and conceptual design for the utilities and infrastructure components needed to support the future campus, including chilled water, steam supply, condensate return, hot water, and natural gas distribution systems. Major utilities of each system located in designated utility corridors, as well as service lines or smaller utility lines that serve individual buildings were analyzed. A detailed utility phasing plan was developed for each utility based on building development phases and supported the overall building development program plan of the institution. The utility phasing plan provided a year-by-year breakdown of utility construction requirements and a cost analysis was developed to provide estimated costs for capital improvement planning. <i>Total Project Cost: \$177,261 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Tunnel Project; Colorado Mental Health Institute at Pueblo; Pueblo, CO</b>	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager and QA/QC Approver. Stanley Consultants provided design and construction administration services for the electrical upgrades to the tunnel system. Phase 1 of this project included approximately 1,750 feet of the 7,000-foot tunnel. Structural services included analyzing existing precast concrete structure for addition of new emergency power generator and associated electrical conduits and control systems. <i>Total Project Cost: \$688,046 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Cottage Renovation at Colorado Mental Health Institute at Ft. Logan; Colorado</b>	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The F-1 Cottage at the Colorado Mental Health Institute at Ft. Logan is a long-term patient care facility that is undergoing a complete renovation that will replace all interior finishes, electrical systems, mechanical systems, plumbing systems, and other changes to accommodate the requirements of the patients and to improve the operation for the nursing staff. Approximate construction cost is \$2,000,000. <i>Total Project Cost: \$167,000 (fee)</i>	<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 Ali A. Mahmood, P.E.	b. ROLE IN THIS CONTRACT Mechanical Specialist	c. YEARS EXPERIENCE	
		1. TOTAL 21	2. WITH CURRENT FIRM 13
d. LOCATION <i>(City and State)</i> Stanley Consultants, Inc., Centennial, CO			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. / Mechanical Engineering B.S. / Engineering Physics and Mathematics		f. PROFESSIONAL TRAINING - REGISTRATIONS Mechanical Engineer, AZ, IL, MI, OH, NM	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Project experience includes quality control and quality assurance of bid documents. Completed analysis, engineering, and design of mechanical systems encompassing HVAC plumbing, and fire protection. Experience also includes conducting technical and administrative support activities related to the new construction or major modernization of institutes for higher education, research laboratories, hospitals, public facilities, commercial buildings, federal and state facilities, and defense facilities.			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>UIC-Daley Library Modernize Fire Alarm and Sprinkler Upgrade; University of Illinois/Chicago; Chicago, IL</b>	2013	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The scope of work includes upgrading the building fire alarm and the addition of a building wet pipe sprinkler system to serve the general needs of the building, and dedicated fire suppression systems to serve the special collection areas within the building. The fire alarm systems will be upgraded to have a common fire alarm control panel that will be sized to handle today and tomorrow's initiating and notification requirements. <i>\$67,580 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	<b>Central Power Plant 13.2 kV Switchgear Upgrade Study; University of Michigan; Ann Arbor, MI</b>	2013	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This study will be developed as a continuation of the Electrical Switching Stations Upgrade Study to coordinate with all parts of the UM's Primary Distribution System. Stanley Consultants completed the Electrical Switching Stations Upgrade Study (ECSS, CSS, and FASS) in March 2013. This project provided three different options including cost estimates and construction sequencing to maintain the campus operation at all times. <i>Total Project Cost: \$30,966 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	<b>Boiler MACT Study; Indiana University/Bloomington; Bloomington, IN</b>	2013	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The Indiana University Central Heating Plant boilers are subject to the Major Source MACT for Industrial, Institutional, and Commercial Boilers and Process Heaters (Boiler MACT). An amended version of the Boiler MACT was final January 31, 2013, and compliance for existing affected boilers is three years after the final date. Stanley Consultants summarized the applicable limits, work practice standards, operating limits, compliance requirements, and compliance schedules for each CHP boiler. <i>Total Project Cost: \$8,700 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	<b>Combined Heat and Power Plant and Boiler 2 Conversion; Purdue University/Main Campus; West Lafayette, IN</b>	2013	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The project centered around the elimination of a coal boiler at the Wade Power Plant and the installation of a gas turbine combined heat and power system. Project included the demolition of Boiler 1, a 215,000 lb/hr coal-fired stoker boiler and the conversion of Boiler 2, also a 215,000 lb/hr unit, from coal to natural gas. This conversion required the removal of the coal burning equipment and the installation of new natural gas-fired burners. A natural gas-fired nominal 6.5 MW combustion turbine generator (Solar Taurus 65) with heat recovery steam generator (HRSG) including natural gas duct-firing and supporting auxiliary equipment was installed in the location vacated by Boiler 1. <i>Total Project Cost: \$322,162 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	<b>Northern Arizona University – Aspen Crossing Residence Hall, Student Housing Flagstaff, AZ</b>	2007	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager evaluated the HVAC system in the Student Services Building and provided recommendations that will provide an energy efficient space climate control system. Provided a comprehensive analysis of the heating and cooling load of the building, campus chilled water and hydronic heating system, and facilities management system. <i>Total Project Cost: \$360,50(fee)</i>	<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 Chad Feuerstein, P.E.	b. ROLE IN THIS CONTRACT Senior Mechanical Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 16	2. WITH CURRENT FIRM 13
d. LOCATION (City and State) Stanley Consultants, Inc., Centennial, CO			
e. EDUCATION (DEGREE AND SPECIALIZATION) M.S. / Mechanical Engineering; B.S. / Math/Physics		f. PROFESSIONAL TRAINING - REGISTRATIONS Mechanical Engineer, CO, NM, ID, UT	

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

Professional experience encompasses the design of commercial, industrial, institutional, and power and energy HVAC systems involving chilled water coils, heating water coils, steam coils, direct expansion (DX) coils, ductwork systems, multi-zone systems, makeup air systems, exhaust air systems, humidification systems, reheat systems, constant air volume system, variable air volume systems, plumbing systems, chiller plants, chilled water systems, boiler plants, heating water systems, steam systems, condensate systems, chilled water, heating water, steam, condensate distribution piping systems, tunnels, vaults, direct buried infrastructure systems, cogeneration plants, simple cycle power plants, and combined cycle power plants.

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State) <b>Infrastructure Master Plan Update; Arizona State University; Tempe, AZ</b>	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable)
1.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/>	Check if project performed with current firm
	Stanley Consultants was responsible for preparation of an Arizona State University infrastructure master plan that addressed the requirements, layout and conceptual design for the utilities and infrastructure components needed to support the future campus, including chilled water, steam supply, condensate return, hot water, and natural gas distribution systems. Major utilities of each system located in designated utility corridors, as well as service lines or smaller utility lines that serve individual buildings were analyzed. A detailed utility phasing plan was developed for each utility based on building development phases and supported the overall building development program plan of the institution. The utility phasing plan provided a year-by-year breakdown of utility construction requirements and a cost analysis was developed to provide estimated costs for capital improvement planning. <i>Total Project Cost: \$177,261 (fee)</i>		
	(1) TITLE AND LOCATION (City and State) <b>Combined Heat and Power Evaluation; Brigham Young University; Provo, UT</b>	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
2.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/>	Check if project performed with current firm
	The Brigham Young University (BYU) Central Heating Plant consists of three coal-fired high temperature hot water generators, and three dual fuel-fired high temperature hot water generators. A recent study identified that due to current Utah environmental regulations, the high temperature hot water (HTHW) generator burners need to be replaced with ultra-low NOx burners. The cost of this replacement is estimated at approximately \$3 million. This expense prompted BYU to request a Combined Heat and Power Plant (CHP) evaluation and economic analysis to replace multiple aging HTHW generators, with a cogeneration unit, to be located within the existing Central Heating Plant. Utah's current State Implementation Plan (SIP) also contributed to the development of the evaluation, due to the expense to replace the burners on aging HTHW generators. <i>Total Project Cost: \$50,000 (fee)</i>		
	(1) TITLE AND LOCATION (City and State) <b>Heating Plant Temporary Boiler; Colorado School of Mines, CO</b>	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
3.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/>	Check if project performed with current firm
	The project included connecting the trailer-mounted boiler systems into the existing heating plant systems for distribution of steam to campus in an emergency situation. The required connections between the existing Heating Plant and the trailer mounted boiler include 4-inch Natural Gas, 1-inch Continuous Blowdown, 2-inch Water Column Blowdown, 1-1/2-inch Bottom Blowdown, 8-inch Main Steam, 2-1/2-inch Feedwater, 1-inch Chemical Feed, 3/4-inch Instrument Air, and 200 AMP, 480V/3PH Power Supply. The boiler purchased was originally designed to operate at 300 psig, so the project design coordinated the installation requirements of the boiler at the operating condition of 100 psig with the boiler supplier, Nationwide Boiler, Inc. <i>Total Project Cost: \$32,900 (fee)</i>		
	(1) TITLE AND LOCATION (City and State) <b>Central Heating Plant Energy Management Assessment; Montana State University; Bozeman, MT</b>	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
4.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/>	Check if project performed with current firm
	The energy management assessment study investigated the benefits and feasibility of implementing an expanded cogeneration system to the MSU Central Heating Plant. Expanding the campus cogeneration system will provide electrical power to the campus to reduce campus electrical energy purchased, while providing a source of waste heat to generate steam that can be utilized for campus heating. <i>Total Project Cost: \$65,000 (fee)</i>		
	(1) TITLE AND LOCATION (City and State) <b>Tunnel Project; Colorado Mental Health Institute at Pueblo; Pueblo, CO</b>	(2) YEAR COMPLETED	
		Professional Services 2008	Construction (if applicable)
5.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/>	Check if project performed with current firm
	Mechanical Engineer. Stanley Consultants provided design and construction administration services for the electrical upgrades to the tunnel system. Phase 1 of this project included approximately 1,750 feet of the 7,000-foot tunnel. Structural services included analyzing existing precast concrete structure for addition of new emergency power generator and associated electrical conduits and control systems. <i>Total Project Cost: \$688,046 (fee)</i>		



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

a. NAME Aaron Neuman, PE, SE	b. ROLE IN THIS CONTRACT Senior Structural Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 21	2. WITH CURRENT FIRM 7
d. LOCATION <i>(City and State)</i> Stanley Consultants, Inc., Centennial, CO			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. / Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Structural Engineer, IL, MI, IN; Civil Engineer, IL	

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

Professional experience since 1994. Responsible for design, analysis, technical management, design supervision, and coordination of structural team with other disciplines. Comprehensive design of steel and reinforced concrete buildings and structures for large industrial facilities including power plants, breweries and manufacturing plants. Design of pile, mat and spread footing foundations and retaining walls. Detail design of connections for steel and reinforced concrete structures.

Field examinations and extended site visits for the purpose of:

- Layout and design of modifications and upgrades to existing building and structures.
- Determining repairs for damage due to explosion, deterioration, and failure of structures and foundations.
- Overseeing construction of projects and providing field engineering support.
- Assessing quality and schedule of construction.

Extensive use and knowledge of IBC, UBC, BOCA, ASCE 7 and Chicago building codes. Steel design using both ASD and LRFD, STAAD III, SAP 90, SAFE structural modeling programs, and design of wood and masonry.

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	ASU Utility Tunnel Systems Evaluation, Arizona State University, Tempe, AZ	2013	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Stanley Consultants will provide engineering services to study and evaluate ASU's mechanical systems located within the campus utility tunnels and the utility tunnels structural integrity. The assessment included visual observations and ultrasonic pipe testing. The assessment was limited to within the utility tunnel where the systems were visible. The major utility tunnel systems and elements, most critical to University operations, to be inspected and evaluated included the following; steam and condensate system, chilled water system, piping supports, all systems, utility tunnel concrete structure. The minor utility tunnel systems and elements to be inspected and evaluated will include the following; fire protection system, reverse osmosis (demineralized) water system, hot water system., soft water system, domestic water system, insulation, all systems, tunnel ventilation, and tunnel emergency egress. <i>Total Project Cost: \$200,000 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	Tunnel Decommission and New Steam Feed to Clements Library; University of Michigan; Ann Arbor, MI	2012	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The University of Michigan had an old section of utility tunnel serving Clements Library and connecting the north tunnel to the University Street tunnel. Approximately 400 feet of tunnel was decommissioned, and new direct buried utilities were provided. Stanley Consultants provided value engineering, detailed design/construction documents, cost estimating, and construction administration services. <i>Total Project Cost: \$70,631 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	Linkins Dining Center HVAC Renovation; Illinois State University; Normal, IL	2012	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Seven existing multi-zone air-handling units and associated exhaust systems were replaced serving the Linkins Dining Center on the Illinois State University campus. The existing units, located in a sub-basement with limited access, required replacement due to poor equipment condition and increased air conditioning needs within the building. The seven existing multi-zone units were replaced with a single custom field fabricated multizone air-handling unit with a common outdoor air intake plenum with fan walls. <i>Total Project Cost: \$129,265 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	Warren E. Burger Federal Building-Courthouse Renovation; GSA, MN	2010	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Provided mechanical, plumbing, fire protection, and electrical drawings based on existing condition, space programming, and Department of Justice requirements. Deliverables included project manual, cost estimates, demolition, and installation plans. Provided language in the technical specifications in regards to the coordination of MEP System shut downs. This required the design team to determine and establish a protocol between GSA and the construction contractor. <i>Total Project Cost: \$25,698(fee)</i>	<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 Gerald H. Ogg, PE	b. ROLE IN THIS CONTRACT Senior Electrical Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 20	2. WITH CURRENT FIRM 16
d. LOCATION <i>(City and State)</i> Stanley Consultants, Inc., Centennial, CO			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. / Electrical Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Electrical Engineer, AZ, CO, WY, NM, IA	

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

Engineering experience includes utility, industrial, institutional, commercial, Department of Energy, and other government facilities. Experience includes electrical and controls support in geothermal and gas-fired combined cycle power plants, university heating plants, water and wastewater treatment facilities, research laboratories, correctional facilities, and vehicle maintenance facilities. Responsibilities include designing power distribution, protective relaying, communication, lighting, fire alarm, security, grounding, and lightning protection. Responsible for electrical studies including load flow, short circuit, voltage drop, and grounding as well as producing design documents through construction administration.

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>ASU Utility Tunnel Systems Evaluation, Arizona State University, Tempe, AZ</b>	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/>	Check if project performed with current firm
	Stanley Consultants will provide engineering services to study and evaluate ASU's mechanical systems located within the campus utility tunnels and the utility tunnels structural integrity. The assessment included visual observations and ultrasonic pipe testing. The assessment was limited to within the utility tunnel where the systems were visible. The major utility tunnel systems and elements, most critical to University operations, to be inspected and evaluated included the following; steam and condensate system, chilled water system, piping supports, all systems, utility tunnel concrete structure. The minor utility tunnel systems and elements to be inspected and evaluated will include the following; fire protection system, reverse osmosis (demineralized) water system, hot water system., soft water system, domestic water system, insulation, all systems, tunnel ventilation, and tunnel emergency egress.		
2.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Central Plant Cooling Tower Blowdown Reuse; Arizona State University; Tempe, AZ</b>	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/>	Check if project performed with current firm
	Stanley Consultants evaluated the blowdown water quality to determine potential water re-use solutions that were more consistent with ASU's commitment to sustainability. The study evaluated the existing conditions within the Central Plant and their impacts to the blowdown system. The blowdown water options were evaluated against initial capital costs, ongoing maintenance costs and efforts, percent reduction in wastewater volume, and environmental impacts of a new system (i.e., additional energy consumption, generation of landfill waste, etc.). The evaluated options included landscape irrigation, dust control, cooling tower makeup, boiler makeup, nano-filtration/reverse osmosis, zero liquid discharge processes, and grey water plumbing systems. <i>Total Project Cost: \$187,800 (fee)</i>		
3.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Infrastructure Master Plan Update; Arizona State University; Tempe, AZ</b>	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/>	Check if project performed with current firm
	Stanley Consultants was responsible for preparation of an Arizona State University infrastructure master plan that addressed the requirements, layout and conceptual design for the utilities and infrastructure components needed to support the future campus, including chilled water, steam supply, condensate return, hot water, and natural gas distribution systems. Major utilities of each system located in designated utility corridors, as well as service lines or smaller utility lines that serve individual buildings were analyzed. A detailed utility phasing plan was developed for each utility based on building development phases and supported the overall building development program plan of the institution. The utility phasing plan provided a year-by-year breakdown of utility construction requirements and a cost analysis was developed to provide estimated costs for capital improvement planning. <i>Total Project Cost: \$177,261 (fee)</i>		
4.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Tunnel Project; Colorado Mental Health Institute at Pueblo; Pueblo, CO</b>	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/>	Check if project performed with current firm
	Project Manager and QA/QC Approver. Stanley Consultants provided design and construction administration services for the electrical upgrades to the tunnel system. Phase 1 of this project included approximately 1,750 feet of the 7,000-foot tunnel. Structural services included analyzing existing precast concrete structure for addition of new emergency power generator and associated electrical conduits and control systems. <i>Total Project Cost: \$688,046 (fee)</i>		
5.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Cottage Renovation at Colorado Mental Health Institute at Ft. Logan; Colorado</b>	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/>	Check if project performed with current firm
	The F-1 Cottage at the Colorado Mental Health Institute at Ft. Logan is a long-term patient care facility that is undergoing a complete renovation that will replace all interior finishes, electrical systems, mechanical systems, plumbing systems, and other changes to accommodate the requirements of the patients and to improve the operation for the nursing staff. <i>Approximate construction cost is \$2,000,000. Total Project Cost: \$167,000 (fee)</i>		



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

a. NAME Ryan L. Bonham	b. ROLE IN THIS CONTRACT Commissioning Specialist	c. YEARS EXPERIENCE	
		1. TOTAL 14	2. WITH CURRENT FIRM 10
d. LOCATION <i>(City and State)</i> Stanley Consultants, Inc., Centennial, CO			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> A.A. / Scottsdale Community College		f. PROFESSIONAL TRAINING - REGISTRATIONS Qualified Commissioning Process Provider	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Experience as an Associated Air Balance Council Certified Technician includes test and balance of HVAC systems and equipment including chilled water, heating hot water, and air handling systems. Experience covers clean rooms, operating rooms, office, and laboratory environments. Duties include contract document review, site inspections, TAB review, and witnessing of functional testing. Additional responsibilities include developing commissioning specifications, construction observation, troubleshooting, and problem resolution.			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>Northern Arizona University Wellness Center Design Phase</b> <b>Flagstaff, AZ</b>	2012	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Commissioning Technician - responsible for reviewing the TAB report and documentation; witnessing the functional testing on the newly installed HVAC equipment; airflow and water flow troubleshooting; and the construction of the IAQ management plan. Total Project Cost: \$167,358 (fee)	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	<b>Lake County HVAC System Commissioning at Central Permit Facility Phase II,</b> <b>Waukegan, IL</b>	2012	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Commissioning Technician - responsible for troubleshooting condensing boilers. Responsibilities included reviewing TAB hydronic report, measuring air/water flows, and verifying commissioning of DDC control system. Total Project Cost: \$48,512 (fee)	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	<b>U.S. Army Engineer District, Japan BHA E Elementary School</b> <b>Japan</b>	2013	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Commissioning Technician - responsible for developing and writing the commissioning plan which included construction checklists and functional performance tests. Total Project Cost: \$107,841 (fee)	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	<b>U.S. Army Engineer District, Japan Yokota High School</b> <b>Japan</b>	2013	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Commissioning Technician - responsible for developing and writing the commissioning plan which included construction checklists and functional performance tests. Total Project Cost: \$83,141 (fee)	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	<b>NAVFAC Atlantic NA-Building Retro Commissioning Study, NNS</b> <b>Virginia, USA</b>	2012	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Commissioning Technician - responsible for assisting with the functional testing of existing HVAC systems, reviewing documentation, and providing site inspections at multiple buildings. These tests included verifying flows and name plate data on the following systems: air handling units, VAV boxes, fan coil units, heat pumps, pumps, chillers, boilers, and heat exchangers. The data from the tests was checked against the original design parameters of the equipment installed to see if any energy conservation measures were available. Total Project Cost: \$1,297,014 (fee)	<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 Tony Leibold	b. ROLE IN THIS CONTRACT Resident Project Representative, Construction	c. YEARS EXPERIENCE	
		1. TOTAL 17	2. WITH CURRENT FIRM 8
d. LOCATION <i>(City and State)</i> Stanley Consultants, Inc., Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Cert. / Instrumentation and Controls		f. PROFESSIONAL TRAINING - REGISTRATIONS	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Advanced PLC Programming, Triconex University, Houston, TX.			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>Lift Station Process Control Optimization; City of Phoenix</b>	2013	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Resident Project Representatives. The project consists of providing design services to add Pressure Indicating Transmitters (PIT's) to the pump discharge piping at sixteen wastewater collection lift stations. The design will include conduit and cabling from the transmitters to the existing remote telemetry units (RTU's). The RTU's are to be modified during this project to accept the incoming analog signals from the PIT's and the existing Opto 22/PLC code will be updated to register the new analog signals. The project includes preparation of plans and specifications for the following City of Phoenix Collection Lift Station sites: LS 40, LS-42, LS-44, LS-46, LS-47, LS-48, LS-50, LS-55, LS-56, LS-60, LS-64, LS-65, LS-66, LS-68, LS-72, and LS-73. <i>Total Project Cost: \$61,574</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	<b>LS57 Upgrades; City of Phoenix</b>	2012	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager responsible for budget monitoring, design management and the facilitation of all the monthly progress meetings. <i>Total Project Cost: \$145,710</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	<b>Site Upgrades (CA&amp;I); City of Phoenix</b>	2010	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager responsible for monitoring the budget, construction coordination with the Contractor, City of Phoenix and third party architectural firm. <i>Total Project Cost: \$103,222</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	<b>Wastewater SCADA CA&amp;I; City of Phoenix</b>	2012	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager responsible for monitoring budget and managing construction oversight for six City of Phoenix wastewater lift station electrical upgrade projects. <i>Total Project Cost: \$354,491 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	<b>Lift Station 53 Electrical/Minor Civil Upgrades; City of Phoenix</b>	2011	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager responsible for monitoring the budget, managing the design, and coordination with third party architectural firm as well as facilitating all of the monthly progress meetings. <i>Total Project Cost: \$131,791 (fee)</i>	<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 Colby Northern	b. ROLE IN THIS CONTRACT Construction Observer	c. YEARS EXPERIENCE	
		1. TOTAL 20	2. WITH CURRENT FIRM 9
d. LOCATION <i>(City and State)</i> Stanley Consultants, Inc., Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i>		f. PROFESSIONAL TRAINING - REGISTRATIONS	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>			
<ul style="list-style-type: none"> <li>Electrician.</li> <li>Low Voltage Communications Systems Grounding Harmonics and Transient Over Voltage Protection Course.</li> <li>(OSHA 510) OSHA Standards for the Construction Industry, 30-hour.</li> <li>(OSHA 500) OSHA Standards for the Construction Industry, 30-hour trainer.</li> <li>Authorized 10-hour and 30-hour OSHA Trainer (U04977506).</li> <li>ATTI (Arizona Technical Training Institute) Expires: Jan 2015.</li> <li>ACI (American Concrete Institute) Expires: September 2014. IMSA (International Municipal Signal Association) Work Zone Safety Specialist.</li> <li>IMSA (International Municipal Signal Association) Traffic Signal Technician Level 1.</li> <li>ADOSH (Arizona Division of Occupational Safety and Health) Confined Space Entry.</li> <li>City of Phoenix, Right-of-Way Training, August 15, 2013.</li> </ul>			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>I-17 and Sweetwater Transmission Main Replacement; City of Phoenix</b>	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Construction Observer. Stanley Consultants is being retained by the City to assist the Design Engineer of Record with updating and finalizing the design of this project that was put on hold in 2010, and provide full-time "third-party" construction administration and inspection services during construction. The project consists of constructing approximately 5,600 LF of 24-inch DIP from Thunderbird Road and Cave Creek Wash to Sweetwater Road and I-17. <i>Total Project Cost: \$293,350</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Lift Station Process Control Optimization; City of Phoenix, AZ</b>	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical Designer responsible for the design and AutoCAD of electrical and instrumentation systems to add Pressure Indicating transmitters to 16 existing lift station facilities. Developed construction cost estimates for each lift station and processed design documents for City review and approval with Water Services and AFP. <i>Total Project Cost: \$61,574</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Site Upgrades (CA&amp;I); City of Phoenix</b>	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Oversight responsible for the review of materials for submittal and operation & maintenance manuals. Reviewing project materials prior to installation and reviewing stored materials for processing of payment. Answering contractor RFI's and interfacing with the contractor in the field. <i>Total Project Cost: \$103,222</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Zone 19 Reservoir and Pump; Prescott, AZ</b>	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical Designer responsible for electrical and instrumentation design including CADD work for this new pump station and remote reservoir site. <i>Total Project Cost: \$222,432</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Sewer Improvements Phases 2A, 2B and 2C; City of Phoenix</b>	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Construction Observer responsible for full-time onsite inspection of a new 36-inch sewer main installed by open cut and tunneling methods. Witnessed pressure and leak testing on both sewer and water lines. Monitored bypass pumping operations and repair to existing facilities. <i>Total Project Cost: \$3,586,249</i>	<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 Michael E. Fondren, RLS	b. ROLE IN THIS CONTRACT Project Manager - Geomatics	c. YEARS EXPERIENCE	
		1. TOTAL 25	2. WITH CURRENT FIRM 8
d. LOCATION (City and State) Stanley Consultants, Inc., Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION)		f. PROFESSIONAL TRAINING - REGISTRATIONS NV / Land Surveying	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) AUTO CADD 12 – 14; Microcomputer Works.			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION (City and State) <b>US 60 Grand Avenue/SR303L Final Design; Phoenix, AZ</b>	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Lead Surveyor responsible for mapping control and verification of mapping for TL, including 3D scanning of bridge structure. As-builts of stock piles and utility improvements to assist in design of new traffic interchange. <i>Total Project Cost: \$2,984,710</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION (City and State) South Phoenix Two Basins; Phoenix, AZ	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Land Surveyor responsible for mapping control for multiple areas in and around South Mountain for new flood study. Perform boundary survey of two sites for flood district for future retention sites. <i>Total Project Cost: \$830,403</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION (City and State) <b>Ellsworth Road - Cloud Road to Hunt Highway; Queen Creek, AZ</b>	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager responsible for the survey portion of the project, oversight of site survey manager and review of crew work and final As-Builts. <i>Total Project Cost: \$1,498,685 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION (City and State) <b>Picacho I-10/SR 87 Traffic Interchange; AZ</b>	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Principal. Provided topographic survey for this freeway interchange project. As a subconsultant to PB Americas, Stanley Consultants provided horizontal and vertical control surveys for aerial mapping, which included 3D scanning for the overpass. The surveys, conducted for predesign efforts, included as-builts of surrounding street and railroad crossings. <i>Total Project Cost: \$78,339 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION (City and State) <b>Emerald Park Survey; Mesa, AZ</b>	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager and lead surveyor for topographic mapping project for 18+ acre park. <i>Total Project Cost: \$11,328</i>	<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 Bill Sloan, PE	b. ROLE IN THIS CONTRACT Construction Services Manager	c. YEARS EXPERIENCE	
		1. TOTAL 26	2. WITH CURRENT FIRM 6
d. LOCATION <i>(City and State)</i> Stanley Consultants, Inc., Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. / Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS AZ, NV, UT, ND / Civil Engineering	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Member - American Public Works Association; and American Society of Highway Engineers.			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>College Avenue Traffic Calming; Tempe, AZ</b>	2011	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Technical Advisor responsible oversight of the inspector assigned to the project. Advised the client of technical issues that occurred during the construction of the project. <i>Total Project Cost: \$117,416 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	<b>Ellsworth Road - Cloud Road to Hunt Highway; Queen Creek, AZ US</b>	2011	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager responsible for the construction schedule and budget, preparing the monthly pay estimates, reviewing the material testing , preparing change orders, weekly client meetings, negotiating cost with the contractor, project documentation, coordination submittals and correspondence, reviewing and approving traffic control plans, stamping and approving project as-builts. <i>Total Project Cost: \$1,498,685 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	<b>SR 202 Design-Build Project; AZ</b>	2010	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Technical Advisor responsible oversight of the inspector assigned to the project. Advise the client of technical issues that occur during the construction of a project. <i>Total Project Cost: \$3,094,768 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	<b>Greenfield Pecos-Germann; AZ US</b>	2012	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager responsible for the construction schedule and budget, preparing the monthly pay estimates, reviewing the material testing , preparing change orders, weekly client meetings, negotiating cost with the contractor, project documentation, coordination submittals and correspondence, reviewing and approving traffic control plans, stamping and approving project as-builts. <i>Total Project Cost: \$701,657 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	<b>Gavilan Peak Parkway Carefree Highway to Joy; Phoenix, AZ US</b>	2009	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager responsible for the construction schedule and budget, preparing the monthly pay estimates, reviewing the material testing , preparing change orders, weekly client meetings, negotiating cost with the contractor, project documentation, coordination submittals and correspondence, reviewing and approving traffic control plans, stamping and approving project as-builts. <i>Total Project Cost: \$893,950 (fee)</i>	<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 Richard A. Richter	b. ROLE IN THIS CONTRACT Cost Estimator, Specifications Writer	c. YEARS EXPERIENCE	
		1. TOTAL 31	2. WITH CURRENT FIRM 8
d. LOCATION <i>(City and State)</i> Stanley Consultants, Inc., Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. / Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>Sidewalk Enhancement; Chino Valley, AZ</b>	2013	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Cost Estimator for sidewalk and landscaping transportation enhancement. <i>Total Project Cost: \$102,858 (fee)</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	<b>SR 89-SR 89A to South Chino Limits; AZ</b>	2013	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Cost Estimator responsible for writing the specifications for the project and creating the detail estimate, bid schedule and recap for all phases of design. <i>Total Project Cost: \$2,325,439</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	<b>US 60 Grand Avenue/SR303L Final Design; ADOT</b>	2013	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Cost Estimator responsible for writing the specifications for the project and creating the detail estimate, bid schedule and recap for all phases of design. <i>Total Project Cost: \$2,984,710</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	<b>I-19/Ajo Way (SR 86) Traffic Interchange; ADOT</b>	2015	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Cost Estimator responsible for writing the specifications for the project and creating the detail estimate, bid schedule and recap for all phases of design. <i>Total Project Cost: \$5,301,786</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	<b>SR 24 Williams Gateway Freeway; ADOT</b>	2011	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Cost Estimator responsible for writing the specifications for the project and creating the detail estimate, bid schedule and recap for all phases of design. <i>Total Project Cost: \$8,389,405</i>	<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 <i>(City and State)</i>  <b>Logo Sign Placement In Urban Area – Phase I, Various Locations, AZ</b>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i>

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER  Grand Canyon State Logo Signs	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT  \$201,683	e. TOTAL COST OF PROJECT  \$201,683
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Stanley Consultants worked with Grand Canyon State Logo Signs (GCSLS) and ADOT Traffic Engineering staff to develop engineering plans for the installation of new logo signs in the Phoenix metropolitan area. The project included 12 interchanges on SR101L, 16 interchanges on I-10 and 4 interchanges on I-17. Existing physical features and existing signing were identified within the freeway corridors in order to determine locations of both mainline and ramp logo signing that met the criteria set forth in the MUTCD, ADOT Standard Drawings and ADOT's Transportation Technology Group (TTG). Stanley Consultants worked with GCSLS and ADOT Traffic Engineering staff on the initial logo signing project in urban areas to develop guidelines for locating logo signs along urban freeways. These guidelines were enhanced and refined during this project. The engineering plans for the 32 traffic interchanges were completed within 60 days of notice to proceed.





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

a. TITLE AND LOCATION <i>(City and State)</i> <b>Broadway Road Sewer Main Improvements, Phases 2A, 2B, 2C and 2D, Phoenix, AZ</b>		b. YEAR COMPLETED	
		PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If applicable)</i>
<b>23. PROJECT OWNER'S INFORMATION</b>			
c. PROJECT OWNER City of Phoenix	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$4 Million	e. TOTAL COST OF PROJECT On Budget	

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

Stanley Consultants is providing full-time "third-party" CM, administration and inspection services for this estimated \$60 million project that consists of five separate phases of sanitary sewer main replacement. Phase 2A and 2B have been completed, Phase 2C is currently under construction and Phase 2D and Phase 2C Small Streets are scheduled to begin in late 2012. Work for the phases consisted of the following:

- Phase 2A, Broadway Road from 51<sup>st</sup> Avenue to 33<sup>rd</sup> Avenue: Work for this phase consisted of installation of over 15,000 linear feet of 42-inch, 36-inch and 18-inch sewer mains. Work included replacement of storm drains, catch basins, and R&R of 51,000 square yards of asphalt. All phases require wastewater bypass systems, odor control, and traffic control. Total construction cost for this section was \$12.5 million.
- Phase 2B, Broadway Road from 33<sup>rd</sup> Avenue to 10<sup>th</sup> Avenue: Work for this phase consisted of installation of approximately 6,800 linear feet of 36-inch open cut and 7,100 linear feet of 36-inch trenchless sewer mains. Work included R&R of 23,000 square yards of asphalt, removal and replacement of existing water lines, storm drains and catch basins, and installation of Salt River Project irrigation lines. Total construction cost for this section was \$18.2 million.
- Phase 2C, Broadway Road from 10<sup>th</sup> Avenue to 17<sup>th</sup> Street: Work for this phase will consist of installation of over 12,000 linear feet of new sewer mains from 30 inches to 8 inches. Over 2,000 linear feet of storm drain ranging from 18-inch to 45-inch diameter, 2,500 linear feet of 12-inch water line, 89,000 square yards of micro seal, and 41,200 square yards of asphalt R&R. Currently under construction with an estimated construction cost of \$10.8 million.
- Phase 2C Small Streets, local streets north of Broadway Road between 9<sup>th</sup> Avenue and 16<sup>th</sup> Street: This phase of the project is currently in design. Work begins in January 2013 and completed in January 2014. The estimated construction cost for this phase is \$6.8 million.
- Phase 2D, Broadway Road from 17<sup>th</sup> Street to 32<sup>nd</sup> Street: This phase of the project is currently in design. Work begins in October 2012 to be completed in October 2013. It includes construction of over 9,000 feet of sewer line Broadway Road. The size of the new sewer main varies from 24 inches to 30 inches in diameter. Estimated Construction Cost for this phase is \$11 million.







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

a. TITLE AND LOCATION <i>(City and State)</i> <b>ADOT Freeway Management System (FMS) 6C 202L (Red Mountain), 101L to Gilbert Road Final Design and Post Design</b>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i>

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER <b>Arizona Department of Transportation</b>	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT <b>\$206,838</b>	e. TOTAL COST OF PROJECT <b>\$280,348</b>
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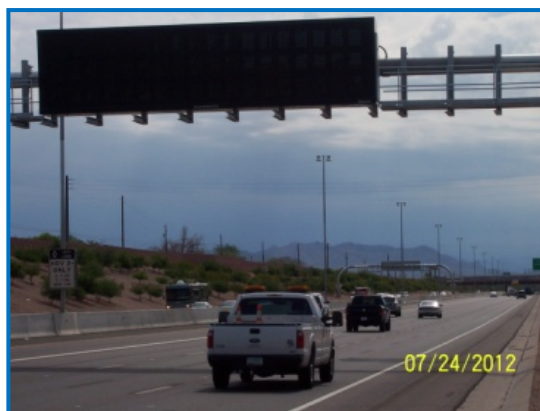
**h. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)**

*The final design work* included the installation of conduit and fiber cables, wireless communication system, CCTV cameras, traffic monitoring stations, dynamic message signs. The project also included modifications to the traffic signal systems at traffic interchanges to the City of Mesa standards and the design of the City of Mesa fiber optic backbone from SR 101L to Country Club Drive. Stanley completed the following ITS tasks:

- Fiber Optic Conduit – Design of 3 miles of new fiber optic conduit.
- Fiber Optic Communications – Design of 3.5 miles of 96-strand single mode fiber optic for ADOT and 3.5 miles of 144-strand single mode fiber optic for the City of Mesa.
- Dynamic Message Sign – Design of DMS at 4 locations, two of them were connected to ADOT TOC via wireless connection and NTCIP protocol.
- Closed Circuit Television – Design of CCTV at 8 locations including analog cameras and video encoders.
- Traffic Monitoring Station – Design of traffic monitoring stations at 15 locations where connected to ADOT TOC via TCP/IP and AB3418 protocols.
- Wireless communication – Design of wireless radio at 8 locations to provide point-to-point and point-to-multipoint wireless connection with both IP and serial (RS 232) connections.



*The post design work* included revision of communication architecture from IP to serial-over-IP for count stations, troubleshooting wireless communication, assistance with wireless video multicasting configuration and review of system acceptance testing (SAT) procedures.





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

a. TITLE AND LOCATION <i>(City and State)</i>  <b>Northern Parkway, Reems Road Intersection with Overpass, Maricopa County, Arizona</b>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i>

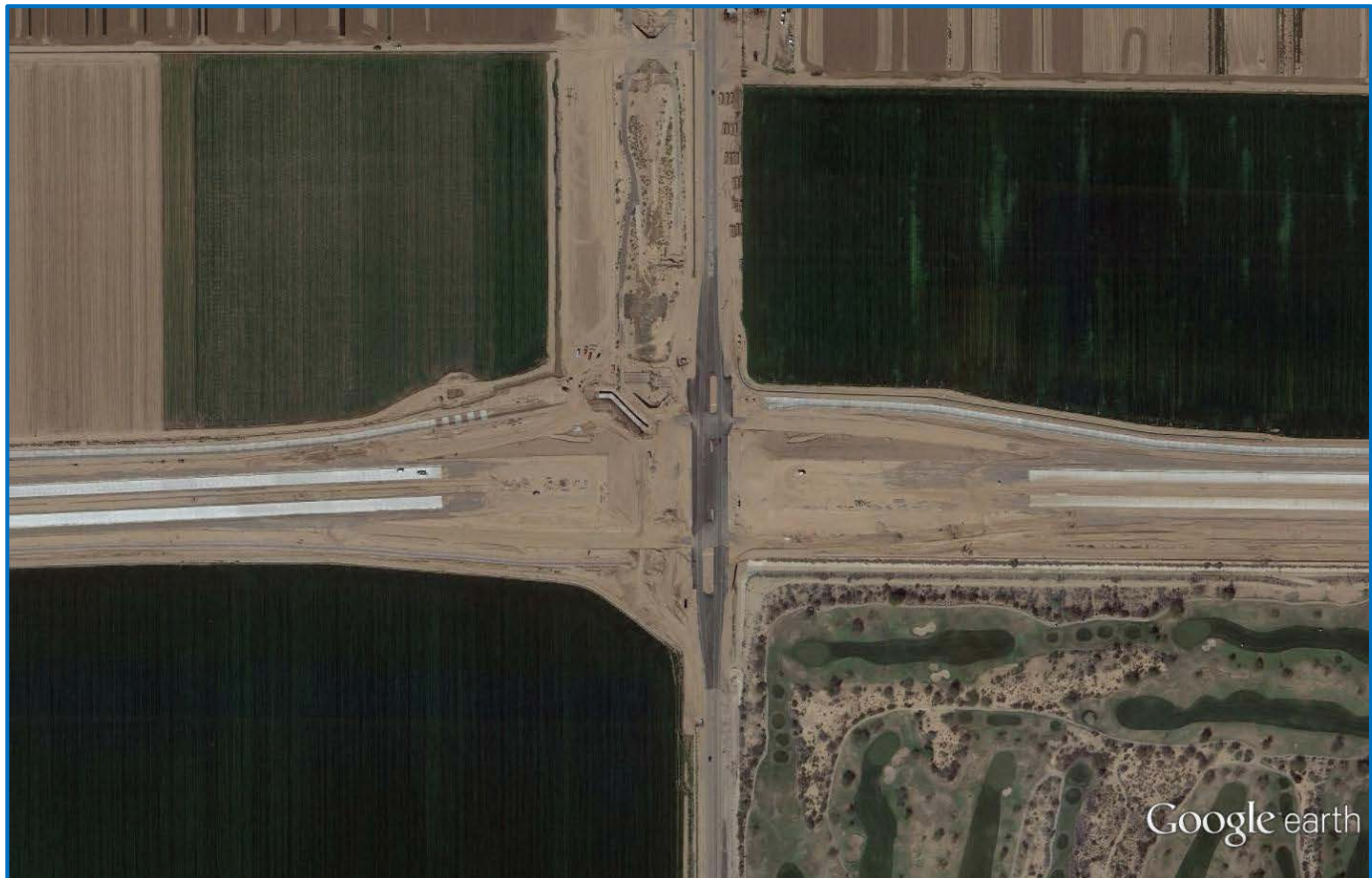
**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER  Maricopa County Department of Transportation	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT  \$422,701	e. TOTAL COST OF PROJECT
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i. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Northern Parkway is a federally funded "Major Project" that will ultimately be a 12-mile long, six-lane access-controlled urban principle arterial connecting SR 303L with Grand Avenue (US 60).

This project improves the Northern Parkway at Reems Road to provide a grade separated intersection. The improvements consist of providing the ultimate three-span bridge crossing and the mainline bridge approaches with full access control. This includes construction plans, specifications, special provisions, field surveys, geotechnical reports, construction quantities including earthwork, construction cost estimates, calculations, utility considerations and the preparation of all bid documents.







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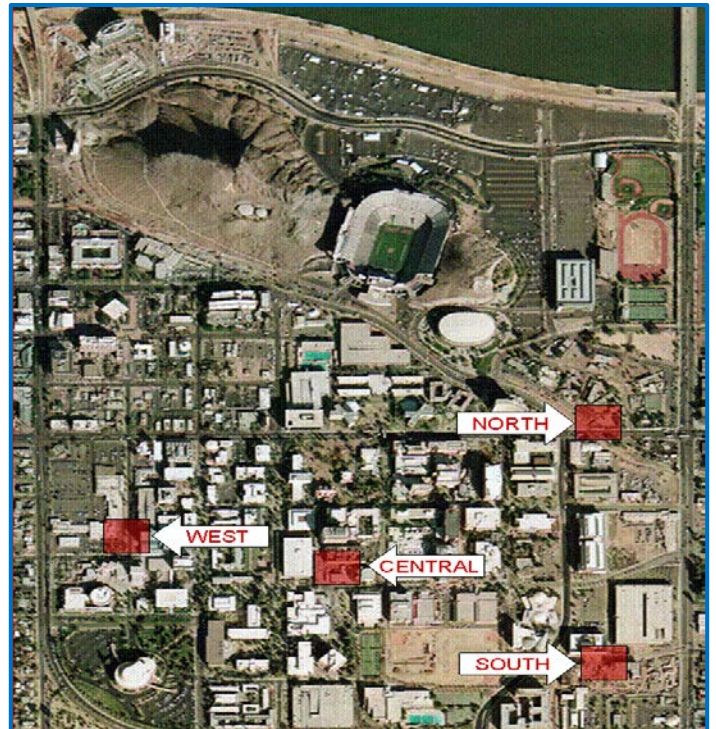
a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
<b>Arizona State Infrastructure Master Plan, Tempe, Arizona</b>	2012	

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Arizona State University	\$177,261	\$187,800

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

Stanley Consultants was responsible for preparation of an Arizona State University infrastructure master plan that addressed the requirements, layout and conceptual design for the utilities and infrastructure components needed to support the future campus, including chilled water, steam supply, condensate return, hot water, and natural gas distribution systems. Major utilities of each system located in designated utility corridors, as well as service lines or smaller utility lines that serve individual buildings were analyzed. A detailed utility phasing plan was developed for each utility based on building development phases and supported the overall building development program plan of the institution. The utility phasing plan provided a year-by-year breakdown of utility construction requirements and a cost analysis was developed to provide estimated costs for capital improvement planning.





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**6. ADDITIONAL INFORMATION**

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

**Firm Overview**

As a professional consulting services firm, Stanley Consultants is dedicated to the management of technical efforts which best represent the interests of our clients. Our professional and technical staff members participate in management and communication courses, seminars, and other educational activities to improve communication, interpersonal relationships, and the overall management of professional and technical efforts for clients.

Stanley Consultants has extensive experience in performing engineering studies and designs for municipal, state, and federal government agency clients; as well as business/industrial clients; international clients.

Specific areas of experience and capability include:

- **Engineering Studies** - A large part of our practice deals with the performance of engineering studies and preparation of engineering reports. We pay particular attention to the preparation of studies and reports, recognizing that such work requires specialized expertise somewhat different from that required for detail design work.
- **Cost Estimates** - Our cost control specialists have developed a high degree of skill in estimating diverse construction costs. For example, over the last eight years the cumulative dollar value of low bids was 4.9 percent under the cost estimates prepared. The greatest variation in a single year of cumulative low bids being under the cost estimate was 8.2 percent. In no one year did the cumulative value of cost estimates average below the low bids.
- **Plans and Specifications** - In the preparation of plans and specifications, standard procedures for quality control have been developed and automated specifications are routinely used. We fully comply with State, Federal, and Local government requirements.
- **Drawings** - As drawings are prepared using Computer-Aided Drafting and Design software, standardized checking procedures are employed to maintain quality control.
- **Project Manuals** - In the preparation of project manuals, standard procedures for quality control have been maintained by the development of over 150 guide technical specifications sections for use on our projects. These guide specifications are available for our design teams on a local area network for editing and processing using specially developed specification editing macros. We are fully familiar with the application of SUDAS documents.
- **Field Consultation During Construction** - On a majority of design projects, we also provide engineering services during construction. In many cases, resident services are also provided. Consultation by lead design personnel during construction is a normal practice provided on most design projects.
- **Construction Management Services** - From conception through completion, our firm offers a broad range of professional expertise in the area of construction management. On numerous projects, varying in size from small to extremely large and complex, our firm has provided assistance to client in-house staff and/or assumed total project management during the construction phase. Complete consultation during the design phase can provide the correct coordination of administration, financial and cost control elements, bidding and contracting for suppliers and subcontractors, expediting, site management coordination, start-up and testing, and other basic services associated with construction management as part of a total integrated project management system.
- **Final Record Drawings** - The preparation of final record drawings is also carried out on the majority of our design projects. These drawings are prepared from field-marked information provided by either our resident engineer or by other personnel representing the client.
- **Value Engineering** - It has long been our practice to carry our economic trade-off studies on alternative details of design during the design process. The technique of functional analysis by team effort known as Value Engineering has been developed to further refine the economic studies performed during design. Since 1977, we have offered our clients formal one-week Value Engineering studies. These studies are staffed by our design professionals from all disciplines who have received formal training and have participated on many Value Engineering teams.
- **Quality Control** - During our 100 years of offering diversified multidisciplinary professional consulting services, it has been our practice to pay close attention to the management of technical effort and quality control. Stanley Consultants has a formal Quality Control Manual which includes the basin requirements for the company's technical performance on all engagements. Our matrix management system is sufficiently flexible to adapt to each client's requirements and to promote the production of quality designs.



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- **Continuing Professional Development** - We have a long established policy of promoting continuing professional development of our members through cost sharing for individual member's education programs; the presentation of technical seminars in the home office covering many fields of interest; the encouragement of professional registration; the encouragement of members to participate in professional conferences, symposiums, and seminars; the support of and participation in research and development programs; and promoting individual member leadership and support in professional societies and association activities.
- **Familiarity with Contracting Procedures** - Stanley Consultants has negotiated numerous contracts with the Arizona Department of Transportation and local county and municipal agencies throughout Arizona. We are extensively acquainted with the processes of proposals, negotiations, contracting, and developing working relationships with these agencies.

**Mission Statement**

Stanley Consultants puts client needs first. Our professionals provide engineering and related services worldwide. We do this ethically, with a focus on developing and maintaining long-term client relationships.

**Core Values**

Stanley Consultants is a values-based organization. Our Core Values serve as the governing foundation of our organization. They are important philosophies we use to guide us in making decisions.

**Clients.** We hold our clients paramount. We listen to them and strive to consistently meet their requirements and exceed their expectations.

**Members.** We value our members. Their capabilities, initiative, integrity, creativity, and commitment are our most important assets. We strive to provide satisfying growth opportunities in a safe and healthy working environment, a role in shaping our mutual future, and fair compensation. We support the growing diversity of the work force.

**Quality.** We pursue excellence in all that we do. Excellence is achieved through a continuous quest for improvement.

**Leadership.** We lead with openness, fairness, and integrity. The health of the company depends upon member trust, empowerment, and involvement in the future direction of the business.

**Corporate.** We take seriously our responsibilities to the professions we practice; to public health, safety, and welfare; to the communities where we live and work; and to our shareholders. We are professionally independent and member-owned, and our conservative fiscal management provides stability.

**Other relevant project experience includes**

**Combined Heat and Power Plant, Arizona State University** - This project provided design and construction administration services to APS Energy Services (APSES) for the construction of the Combined Heat and Power Plant (CHP) at Arizona State University Main Campus. The chiller system design includes twelve electric motor-driven, centrifugal, 2,000 ton chillers and associated variable speed primary chilled water pumps with variable frequency drive (VFD) control, condenser water pumps with soft-starters, cooling towers with VFD control, and motor-operated valves, piping, and ancillary equipment, electrical equipment including 12.47kV double-ended switchgear, 480V double-ended switchgear with transformers, and 480V motor control centers; distributed control system, instrumentation, and controls to accommodate this system. 10,000 tons of chilled water capacity has been installed to date.



The cogeneration system design includes two combustion turbine-generator units and two steam turbine-generator units totaling 16 MW with two heat recovery steam generators totaling 160,000 pph at 150 psig. Each cogeneration includes the associated natural gas fuel compressor/conditioning systems, deaerator, steam condenser, boiler feedwater pumps, water treatment systems, 480V motor control centers, distributed control system, instrumentation, and controls to accommodate this system. 9.2 million of cogeneration capacity has been installed to date. The cogeneration system is connected to a fourteen-position switchgear, which serves the following: two incoming APS feeders, two cogeneration unit feeders, two feeders (one loop) for each pair of AZ Biodesign Buildings (total of six positions), two feeders (one loop) for the ISTB Building/ASU campus, and two CHP feeders.

The emergency system includes three 4.16kV, 2,000kW diesel generators and associated 4.16kV switchgear as well as transformer to back feed the CHP chiller equipment. The work included supporting APSES in obtaining wastewater discharge, APS electrical interconnection and service





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agreements, natural gas service agreement, potable and wastewater connections permits and agreements. Services included procurement and construction specifications, and construction administration services.

**Central Heating and Cooling Plant Upgrades/Improvements, Arizona State University** - The Central Plant (CP) at Arizona State University's (ASU) Main Campus generates chilled water for air conditioning and process cooling, and steam for heating buildings and laboratory use. It also supplies softened hot water, distilled water for laboratories, and emergency electrical power.

**In a multi-year, multi-phase, campus-wide energy use improvement project, Stanley Consultants performed an energy audit, followed by design and construction administration services for upgrades to the chilled water system, steam boiler system, and distributed control system and instrumentation. In addition, the design for the replacement of the 15kV electrical switchgear that serves half of campus, as well as the 4kV emergency diesel generator system, was completed but is still pending construction funding.**

*Central Plant Energy Audit* - As part of a campus comprehensive Energy Conservation and Management program, we reviewed the condition of existing equipment and established baseline energy and operating costs. Equipment and systems surveyed included:

- Chilled water production and thermal energy storage
- Chilled water distribution
- Steam production and distribution
- Cooling towers and condenser water
- Water treatment
- Electric power distribution
- Plant controls

*Chilled Water System Upgrades* - For the chilled water system, our services included design and construction administration services for:

- Replacement of nine chillers with new 2000-ton York chillers and associated Evapco cooling towers
- Associated primary, secondary, and condenser water pumps,
- New primary and secondary chiller water supply/return lines
- Two additional new 2000-ton chillers and associated cooling towers
- Conversion of several pumps to variable speed pumps via VFDs

*Steam System Upgrades* - Steam system upgrades involved design and construction administration to replace Boiler #2, a 60,000-pound per hour (pph), dual-fuel boiler, as well as the burner for Boiler #3.

*Distributed Control System Upgrades* - Upgrades to the Distributed Control System (DCS) included replacing a Honeywell DDC System with a new Emerson Delta V to monitor and control the chillers; condenser water pumps; secondary and primary chilled water pumps; cooling towers; thermal energy storage (TES); boilers; electrical switchgear; motor control centers; and other components within the Central Plant.

**Service Entrance Replacements Arizona State University** - Stanley Consultants provided engineering and construction administration services to Arizona State University (ASU) for the replacement of 14 building service entrance sections located across the Tempe campus. Services provided included the procurement, installation, start-up and commissioning of medium voltage Kearney switches, disconnect switches, transformers, switchboards and associated electrical metering.



Stanley Consultants considered three different approaches during the design phase in order for occupant needs for each individual building to be met during construction. Many of the buildings were used primarily for research and could only accommodate a brief electrical outage. In addition, multiple approaches were considered to include the maximum quantity of buildings within budget. The three approaches were: 1) Replace equipment in the same location during an acceptable outage; 2) Install new equipment in a new location, while maintaining existing equipment until switchover; and 3) Install temporary equipment in a new location while replacing existing equipment in the same location

Construction Management at Risk (CMAR) project delivery method was implemented for the project.

**Distance Learning Center, Northern Arizona University** - Stanley Consultants provided commissioning services for the renovation and addition to the Distance Learning Facility. The project included 9,420 sq. ft. of renovated space and 24,812 sq. ft. addition. The new construction, a three-story, steel structure with a stone and aluminum panel mix on the exterior skin, includes new classrooms, faculty offices, and a television studio. Renovations to the existing building addressed office areas and a master control room for the existing television studios. The LEED Silver certified building highlights a solar wall, green wall, chilled beams, day lighting, and natural ventilation features.



Stanley Consultants provided commissioning services consistent with the requirements of the U.S. Green Building Council LEED (Energy & Atmosphere Prerequisite 1 - Fundamental Building Systems Commissioning, and Energy Atmosphere Credit 3 - Enhanced Commissioning) for the following systems: Steam and condensate systems, chilled water system, heating hot water system,



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domestic hot / cold water systems, solar heating systems, air handling systems, exhaust air systems, air distribution, chilled beams, building automation / integrated controls, lighting controls, power distribution, and standby power. In addition, new chilled water and steam lines were brought to the building via a tunnel from the existing campus utilities.

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

a.	Percentage of Total Work Attributable to State, Federal and Municipal Government Work:	90%
b.	Percentage of Total Work Attributable to Non-Government Work:	10%

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

Signature: Steven A Jimenez  
 Name: Steven A. Jimenez

Date: December 18, 2014  
 Title: Project Principal