

Professional

Engineering

Services

2015 Annual Professional Services List

Solicitation No.
ADSP015-00004729

Statement of
Qualifications

State of Arizona

December 2014





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

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

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

1. **Annual Request for Qualifications**

a. FIRM (OR BRANCH OFFICE) NAME:	Strand Associates, Inc. [®]
b. FIRM (OR BRANCH OFFICE) STREET:	4602 E. Elwood Street, Suite 16
c. FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d. FIRM (OR BRANCH OFFICE) STATE:	Arizona
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85040
f. YEAR ESTABLISHED:	1946
(g1). OWNERSHIP - TYPE:	Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	none
h. POINT OF CONTACT NAME AND TITLE:	Baird H. Fullerton, Director of Operations
i. POINT OF CONTACT TELEPHONE NUMBER:	602-437-3733
j. POINT OF CONTACT E-MAIL ADDRESS:	baird.fullerton@strand.com
k. NAME OF FIRM (If block 1a is a branch office):	Strand Associates, 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
Architect	P	2	0
CADD Technician	P	14	2
Civil Engineer	P	74	3
Construction Inspector	P	12	0
Construction Inspector	S	45	2
Control Systems Engineer	P	4	0
Electrical Engineer	P	10	0
Environmental Engineer	P	30	0
Environmental Engineer	S	41	0
Geographic Information System Specialist	P	1	0
Hydraulic Engineer	P	5	0
Landscape Architect	P	2	0
Mechanical Engineer	P	8	0
Sanitary Engineer	P	21	0
Sanitary Engineer	S	20	0
Structural Engineer	P	15	0
Technician/Analyst	P	14	4
Transportation Engineer	P	58	1
Water Resources Engineer	P	15	0
Water Resources Engineer	S	21	0
Other	P	65	4
Total	P	350	14



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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)
8	Bridges	3
6	Drainage	3
4	Electrical Design and Studies	3
2	Environmental Impact Statements or Studies	2
10	Highways; Streets	8
6	HVAC	3
2	Industrial Parks	2
50	Infrastructure	7
3	Landscape Architecture	1
4	Lighting (Streets, Athletic Fields)	2
3	Parks (Recreation Facilities)	2
6	Plumbing and Piping Design	3
2	Refrigeration Systems/Plants	2
8	Rehabilitation (Buildings, Structures, Facilities)	3
12	Sewage Collection and Treatment	6
15	Stormwater Management	6
5	Structural Design	4
20	Survey and Mapping	3
4	Traffic Studies and Transportation Engineering	4
12	Wastewater Treatment Facilities	8
8	Water Resources; Groundwater	4
15	Water Supply; Treatment and Distribution	6
4	Water Well Rehabilitation; Well Work	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 Baird Fullerton, P.E., LEED® AP		b. ROLE IN THIS CONTRACT Director of Operations/ Project Manager		c. YEARS EXPERIENCE	
				1. TOTAL 22	2. WITH CURRENT FIRM 17
d. LOCATION (City and State) Strand Associates, Inc.®; Phoenix, AZ					
e. EDUCATION (DEGREE AND SPECIALIZATION) BS - Civil Engineering			f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona P.E. #31109 Green Building Certification Institute: LEED® Accredited Professional		
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) ACEC					

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) Grand Canyon University Campus-Wide Expansion Program - Phoenix, AZ	(2) YEAR COMPLETED	
		Professional Services On-going	Construction (if applicable) On-going
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Survey and civil engineering services, under a master services agreement (since 2009), related to a variety of site development and infrastructure projects, including a new 5,000-seat event Arena, student union, indoor and outdoor recreation spaces, seven new student housing facilities, four classroom buildings; as well as a variety of utility and parking improvements across the campus. <p align="right">Project Manager for all Civil Engineering</p>	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION (City and State) Maricopa Community Colleges On-Call Engineering Services, FY 2005-2015 - Maricopa County, AZ	(2) YEAR COMPLETED	
		Professional Services On-going	Construction (if applicable) On-going
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Civil engineering, surveying, and construction-related services on an as-needed basis since 2005. Our current agreement is through 2015. Task orders to date include: Rio Salado College Campus (RSCC) Existing Building Sewer Tap; RSCC Building Renovation; RSCC Fire Line Extension. <p align="right">Project Manager</p>	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION (City and State) CG1207 Waterline Rehabilitation Project - Buckeye, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Survey, engineering design services, an opinion of probable cost, construction documents, and construction related services for several small waterline improvements totaling 5,380 linear feet of 6-, 8- and 12-inch waterlines, plus service connections. <p align="right">Project Principal</p>	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION (City and State) 19th Avenue, Baseline To Southern, Improvements - Phoenix, AZ	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Civil engineering design and surveying services for this roadway improvement project. Project included widening from 64 feet to 100 feet of right-of-way throughout a one-mile section, requiring a combination of additional right-of-way, sidewalk, and slope easements. Modifications were made for bus bays, ADA requirements, and connections to the storm drainage system. <p align="right">Project Principal</p>	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION (City and State) Camp Navajo Transportation Plan & Phase 1 Harvest Area Roadway Designs – Bellemont, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided an installation-wide Transportation Plan for Camp Navajo and a detailed Transportation Plan for the Phase I Harvest Area. Camp Navajo Army Depot (located 11 miles west of the City of Flagstaff) has approximately 327 miles of roads throughout the installation. Paved surface roads account for 63 miles, 128 miles are constructed of a compacted cinder surface, and dirt roads account for the remaining 136 miles. <p align="right">Engineer of Record</p>	<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 Arthur N. Brooks, P.E., R.L.S.	b. ROLE IN THIS CONTRACT Quality Control / Constructability Reviews	c. YEARS EXPERIENCE	
		1. TOTAL 42	2. WITH CURRENT FIRM 32
d. LOCATION (City and State) Strand Associates, Inc.®; Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) BS - Civil Engineering Masters - Business Administration		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona P.E. #9628 Arizona R.L.S. #15845	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) ULI, Valley Partnership, APWA, ACEC, AFMA, ASPE, HBACA, SAME, SMPS, ASCE, AIA			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) Grand Canyon University Campus-Wide Expansion Program - Phoenix, AZ	(2) YEAR COMPLETED	
		Professional Services On-going	Construction (if applicable) On-going
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Survey and civil engineering services, under a master services agreement (since 2009), related to a variety of site development and infrastructure projects, including a new 5,000-seat event Arena, student union, indoor and outdoor recreation spaces, seven new student housing facilities, four classroom buildings; as well as a variety of utility and parking improvements across the campus. Principal	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION (City and State) Mummy Mountain 3-inch Water Line - Phoenix, AZ	(2) YEAR COMPLETED	
		Professional Services On-going	Construction (if applicable) On-going
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Topographic surveys and engineering design to upgrade three segments of 3-inch diameter waterlines totaling 3,500 LF with six service/meter connections. The project also included other minor improvements to Site 6L-B1 in order to better serve the residents. Principal	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION (City and State) 19th Avenue, Baseline To Southern, Improvements - Phoenix, AZ	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Civil engineering design and surveying services for this roadway improvement project. Project included widening from 64 feet to 100 feet of right-of-way throughout a one-mile section, requiring a combination of additional right-of-way, sidewalk, and slope easements. Modifications were made for bus bays, ADA requirements, and connections to the storm drainage system. Principal	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION (City and State) Vista Verde Infrastructure Master Planning, Design, and Unit 1 Engineer of Record Services - Rio Verde, AZ	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Civil engineering design and surveying services for this roadway improvement project. Project included widening from 64 feet to 100 feet of right-of-way throughout a one-mile section, requiring a combination of additional right-of-way, sidewalk, and slope easements. Modifications were made for bus bays, ADA requirements, and connections to the storm drainage system. Principal	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION (City and State) Camp Navajo Transportation Plan & Phase 1 Harvest Area Roadway Designs – Bellemont, AZ	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided an installation-wide Transportation Plan for Camp Navajo and a detailed Transportation Plan for the Phase I Harvest Area. Camp Navajo Army Depot (located 11 miles west of the City of Flagstaff) has approximately 327 miles of roads throughout the installation. Paved surface roads account for 63 miles, 128 miles are constructed of a compacted cinder surface, and dirt roads account for the remaining 136 miles. Project Principal	<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	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
Jimmy H. Tonthat, P.E., CFM	Project Manager/ Engineer	1. TOTAL	2. WITH CURRENT FIRM
		15	12
d. LOCATION (City and State) Strand Associates, Inc.®; Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) BS - Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona P.E. #41975 Certified Floodplain Manager (CFM) No. US-09-04653	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Association of State Floodplain Managers (ASFM); ASCE; AZ Floodplain Management Association			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) Allison Road Street and Utility Improvements - Gila River Indian Community, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Land surveying and engineering design services for 1 mile of roadway improvements, from 56th Street to Kyrene Road, with a Union Pacific Rail Road (UPRR) line crossing. The improvements included water and sewer improvements along the same alignment, which included one-half mile of 12-inch water line and one mile of 12-inch sewer line replacements. <p align="right">Project Manager</p>	<input checked="" type="checkbox"/> Check if project performed with current firm	Professional Services 2013
			Construction (if applicable) 2013
2.	(1) TITLE AND LOCATION (City and State) Grand Canyon University Campus-Wide Expansion Program - Phoenix, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Survey and civil engineering services, under a master services agreement (since 2009), related to a variety of site development and infrastructure projects, including a new 5,000-seat event Arena, student union, indoor and outdoor recreation spaces, seven new student housing facilities, four classroom buildings; as well as a variety of utility and parking improvements across the campus. <p align="right">Drainage Engineer</p>	<input checked="" type="checkbox"/> Check if project performed with current firm	Professional Services On-going
			Construction (if applicable) On-going
3.	(1) TITLE AND LOCATION (City and State) ASU Desert Arboretum Park - Tempe, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Land survey, engineering, and construction staking services to renovate a 2-acre park adjacent to Sun Devil Stadium. Included stairways, paver landings, landscaping, sidewalks, and driveway entrance. Under an expedited schedule, the survey and design was complete within a week, and construction was completed both within budget and prior to their first football game of the season. <p align="right">Project Manager</p>	<input checked="" type="checkbox"/> Check if project performed with current firm	Professional Services 2013
			Construction (if applicable) 2013
4.	(1) TITLE AND LOCATION (City and State) CDBG Street Improvements- Glendale, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Engineering design services for 0.5 mile of roadway mill and overlay, along with sidewalk improvements along the Bethany Home Frontage Road (61st Avenue to 65th Avenue) and the 67th Avenue Frontage Road (Keim Drive to Peck Drive). The sidewalk improvements consisted of new pedestrian ramps, remove and replace existing sidewalk, curb and gutter, valley gutter, and signs. <p align="right">Project Manager</p>	<input checked="" type="checkbox"/> Check if project performed with current firm	Professional Services 2012
			Construction (if applicable) 2012
5.	(1) TITLE AND LOCATION (City and State) Vista Verde Infrastructure Master Planning, Design, and Unit 1 Engineer of Record Services - Rio Verde, AZ	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE We provided comprehensive civil engineering and surveying services for the 856-acre Residential Development located at Rio Verde Drive and Forrest Road. Furthermore, we performed Engineer of Record services to provide an Engineer's Certificate of Construction as required by the County for the first phase, which included a 185 lot custom home subdivision on 265 acres and Letter of Map Revisions. <p align="right">Drainage Engineer</p>	<input checked="" type="checkbox"/> Check if project performed with current firm	Professional Services 2014
			Construction (if applicable)



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a. NAME Jeff S. Held, P.E., PTOE	b. ROLE IN THIS CONTRACT Traffic/Transportation Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 17	2. WITH CURRENT FIRM 17
d. LOCATION (City and State) Strand Associates, Inc. [®] ; Madison, WI			
e. EDUCATION (DEGREE AND SPECIALIZATION) BS - Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona: P.E. #49207 Professional Engineer in WI, KY, OH, and IN National Professional Traffic Operations Engineer #1703	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Institute of Transportation Engineers (ITE)			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Grand Canyon University Campus-Wide Expansion Program - Phoenix, AZ	On-going	On-going
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Survey and civil engineering services, under a master services agreement (since 2009), related to a variety of site development and infrastructure projects, including a new 5,000-seat event Arena, student union, indoor and outdoor recreation spaces, seven new student housing facilities, four classroom buildings; as well as a variety of utility and parking improvements across the campus. Traffic Engineer		<input checked="" type="checkbox"/> Check if project performed with current firm
2.	Glendale Avenue Traffic Signal at 115th Avenue Alignment - Glendale, AZ	2012	2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Survey, design, and construction-related services for intersection upgrades to improve operations for heavy vehicles using the Municipal Landfill and provide a signalized turn for the vehicles accessing the adjacent Public Safety Training Center. Traffic Engineer		<input checked="" type="checkbox"/> Check if project performed with current firm
3.	HexCel Erwin Building Expansion Traffic Impact Analysis - Casa Grande, AZ	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE We were responsible for this traffic study to analyze the impacts of a proposed building and parking lot expansion for an industrial manufacturing facility. The new expansion adds 21,030 square feet and an additional 119 parking spaces. The study also evaluated the future facility expansion across VIP Boulevard with pedestrian crossing recommendations. Traffic Engineer		<input checked="" type="checkbox"/> Check if project performed with current firm
4.	US 18/151/Verona Road ITS and Adaptive Signal Control Evaluation - Madison, WI	2013	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE To mitigation traffic delays, this project involved ITS, roadway improvements, and Adaptive Signal Control Technology (ASCT) installations along several alternative routes that were expected to receive more traffic due to Verona Road construction. This project also included the design of eight permanent traffic signals including one at heavily-congested Single Point Urban Interchange (SPUI). ITS elements included using 7 permanent and 4 portable changeable message signs to make drivers aware of alternate routes, delays, or lane closures. Project Manager		<input checked="" type="checkbox"/> Check if project performed with current firm
5.	WIS 172 Paramics Operations Modeling – Brown County, WI	2013	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project involved detailed microsimulation operations model using Paramics software of the entire freeway loop around Green Bay, WI. The model covered more than 40 miles of freeway and 20 interchanges, including four system to system interchanges. Scope included evaluation of needs and alternatives resulting in a Phased Implementation Plan, a Corridor Preservation Plan, 60% design, and a conceptual plat. Project Manager		<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 Brett R. Flippo, R.L.S., CFedS	b. ROLE IN THIS CONTRACT Survey Manager/Land Surveyor	c. YEARS EXPERIENCE	
		1. TOTAL 14	2. WITH CURRENT FIRM 7
d. LOCATION (City and State) Strand Associates, Inc. [®] ; Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) BS - Geomatics		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona R.L.S. #48510 Certified Federal Surveyor (CFedS) No. 1428	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) APLS – Arizona Professional Land Surveyors			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Grand Canyon University Campus-Wide Expansion Program - Phoenix, AZ	On-going	On-going
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Survey and civil engineering services, under a master services agreement (since 2009), related to a variety of site development and infrastructure projects, including a new 5,000-seat event Arena, student union, indoor and outdoor recreation spaces, seven new student housing facilities, four classroom buildings; as well as a variety of utility and parking improvements across the campus. Provided several ALTA, topographic, and boundary surveys, plus legal descriptions <p align="right">Land Surveyor/Survey Manager</p>	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	City Of Avondale On-Call Land Surveying Services - Avondale, AZ	2016	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provide land surveying services on an on-call, as-needed basis for the period of July 2008 - June 2012 and July 2012 - June 2016. Task have included ALTA and topographic surveys. Survey Manager	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	Allison Road Street and Utility Improvements - Gila River Indian Community, AZ	2013	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE We provided land surveying and engineering design services for 1 mile of roadway improvements, from 56th Street to Kyrene Road, with a Union Pacific Rail Road (UPRR) line crossing. Located within the Lone Butte Industrial Park, the project involved the addition of a lane and replacement of pavement along the entire section, plus improvements to the Allison Road and 56th Street intersection. The roadway improvements included a 12-inch water main and a 12-inch diameter sewer line <p align="right">Land Surveyor</p>	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	Mummy Mountain 3-inch Water Line - Phoenix, AZ	On-going	On-going
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Topographic surveys and engineering design to upgrade three segments of 3-inch diameter waterlines totaling 3,500 LF with six service/meter connections. The project also included other minor improvements to Site 6L-B1 in order to better serve the residents. <p align="right">Land Surveyor</p>	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	Camp Navajo Transportation Plan & Phase 1 Harvest Area Roadway Designs – Bellemont, AZ	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided an installation-wide Transportation Plan for Camp Navajo and a detailed Transportation Plan for the Phase I Harvest Area. Camp Navajo Army Depot (located 11 miles west of the City of Flagstaff) has approximately 327 miles of roads throughout the installation. Paved surface roads account for 63 miles, 128 miles are constructed of a compacted cinder surface, and dirt roads account for the remaining 136 miles. <p align="right">Land Surveyor</p>	<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> Grand Canyon University Campus-Wide Expansion Program – Phoenix, AZ		b. YEAR COMPLETED	
		PROFESSIONAL SERVICES On-going	CONSTRUCTION <i>(If applicable)</i> On-going
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER Grand Canyon University	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$2,895,000 (civil and survey fees to date)	e. TOTAL COST OF PROJECT \$400,000,000 (to date)	

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

Since 2009, GCU has been implementing an aggressive growth plan on their main campus in Phoenix and a proposed campus in east Mesa. We have been retained to provide civil engineering and surveying services for multiple projects. In addition to typical design issues, the University's expeditious schedules and the choreography of multiple overlapping projects resulted in nearly impossible concurrent deadlines, requiring a whirlwind of coordination. Sound design documents and quick turnarounds have been vital to meet our client's needs. Under both independent assignments and as part of the architectural design team, we have consistently exceeded the owner's expectations. Representative assignments have involved:

- Utility Inventory and topographic map for the entire campus that is being used as an improvement plan base map and has been essential for on-going campus planning and conceptual design efforts.
- ALTA Surveys, Legal Descriptions, and Easements for Land Acquisition/Access
- New 7,000-seat Arena & Exterior Event Spaces
- Intramural Fields and 2-acre Central Campus Retention Basin
- Mariposa Lawn (2.5 acres) and Sand Volleyball Courts
- Recreation Center
- Parking Lots & Garages - including more than 15-acres of surface lots and 3 parking garage structures
- Pedestrian & Bicycle Facilities that provide Fire Dept. Access and meets ADA requirements.
- GCU Traffic Impact Analysis and Intersection Improvements
- Student Housing - Land survey and civil engineering services for 12 new residence halls
- Classroom Buildings - Four new facilities designed and constructed in close proximity to other existing buildings.
- Satellite Campus Site Investigations and Due Diligence evaluation of several prospective sites
- Main-Campus Offsite Expansion - Civil engineering and survey assistance in support of the acquisition and development of multiple properties to the east of the original campus footprint.



*GCU Main Campus, footprint area highlighted, Phoenix.
Top: prior to expansion. ©Google Earth, Imagery date 11//19/2009.
Bottom: Present day (progress photo date 11/2014).*



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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> 19th Avenue, Baseline Road to Southern Avenue, Improvements – Phoenix, AZ		b. YEAR COMPLETED	
		PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i> 2012
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER City of Phoenix	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$335,000 (fees)	e. TOTAL COST OF PROJECT \$1,530,000 (construction)	

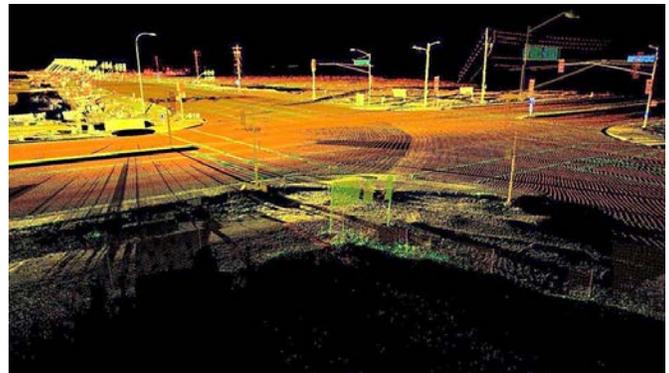
f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Growth of the surrounding area prompted the City of Phoenix to widen this existing two-lane roadway between Baseline Road and Southern Avenue. We provided the land survey and design services required to provide two travel lanes with a common left turn lane, adding bike lanes, parallel parking (along Vineyard Road), and separated sidewalks on both sides of the roadway. Modifications were made to the pedestrian ramps to meet current ADA guidelines and improvements to existing public transit facilities, including a new bus bay on northeast corner of 19th Avenue and Baseline Road. Modifications were made to the existing traffic signal at 19th Avenue and Vineyard Road to accommodate the proposed improvements and additional travel lanes. The entrance to El Prado Park was modified to improve vehicle safety and pedestrian access. The total length of the project was 7,133 LF (1.35 miles).

A drainage analysis was performed to quantify the 2-year stormwater runoff generated within the right-of-way and other contributing areas. The runoff was directed into both existing and proposed catch basins and routed to the existing storm drain trunk line. The necessary storm drain plans connector pipe profiles were included in the final Construction Documents.

A right-of-way map was developed showing all modifications made to existing right-of-way and land parcels within the project limits as a result of the proposed improvements. This included the necessary research, legal description, and exhibits required for the dedication of an irrigation easement to SRP along 19th Avenue south of Vineyard Road and the abandonment of private irrigation facilities within El Prado Park.

This project was revived after a nearly 5-year hiatus during which the City acquired funding and adjacent private developments were built. Managing construction costs were key to moving this project forward. Using value engineering principles, we reduced the City's (original) estimated construction budget from \$3.4 million to \$2.1 million. The expense for the City was reduced even further to a final construction cost of \$1.53 million, which was due to the relatively low material costs from the economic slowdown.



Top: Image of the 19th Avenue/Baseline Road intersection produced by our High Definition Survey (HDS) scanner. The HDS methods enables accurate representation of all existing features. The scanner data was merged with information obtained from the City (right-of-way maps, utility quarter-section maps, and record drawings) to generate a single base map that served as the foundation for the final improvement plans.

Bottom: Improved roadway after construction.



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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> CG1207 Waterline Rehabilitation Project - Buckeye, AZ		b. YEAR COMPLETED	
		PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If applicable)</i> 2014
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER City of Buckeye	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$142,000 (fees)	e. TOTAL COST OF PROJECT \$828,123 (construction)	

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

We provided survey, engineering design services, an opinion of probable cost, construction documents, and construction-related services for several small waterline improvements totaling 5,380 linear feet of 6-, 8- and 12-inch waterlines, plus service connections. Specific sites included:

- Eason Avenue, MC85 to 10th St. (500 LF)
- Roosevelt Avenue, 6th St. to 7th St. (460 LF)
- Jackson Avenue, Miller Rd. to 5th St. (1,400 LF)
- Easement East of 4th Street, Monroe Ave. to Jackson Ave. (300 LF)
- 8th Street, Monroe Ave. to Centre Ave. (220 LF)
- Watkins Avenue, MC85 to 10th St. (350 LF)
- 7th Street, Roosevelt Ave. to Monroe Ave. (300 LF)
- Clanton Avenue, Miller Rd. to 5th St. (1,800 LF)
- Mahoney Avenue, 4th St. to 5th St. (50 LF)
- Miller Rd., Clanton Ave. to Centre Ave. (3 service connections)

Funding for the project was primarily provided through a Community Development Block Grant (CDBG). As a result, additional federal administrative requirements were applied to the project. A subconsultant provided the necessary cultural resources inventory (Class I and Class III) within the public rights-of-way for the project. We assisted with acquiring the necessary utility and right-of-way clearances as well as record maintenance during construction.

During the bid and construction phases of the project, our services included, attendance at a meeting, maintaining logs of correspondence, payments, change orders, submittals, etc. Furthermore, we made weekly site visits to observe the progression of the project, developed the record drawings, and the 1-year warranty inspection.



Waterline improvements noted on aerial photo.



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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> Camp Navajo Transportation Plan & Phase 1 Harvest Area Roadway Designs – Bellemont, AZ		b. YEAR COMPLETED	
		PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If applicable)</i>
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER AZ Department of Emergency and Military Affairs	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$500,000 (civil and survey fees)	e. TOTAL COST OF PROJECT TBD	

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



Existing conditions of various cinder roadways and trails within the facility boundaries.

Camp Navajo Army Depot (located 11 miles west of the City of Flagstaff) has approximately 327 miles of roads throughout the installation. Paved surface roads account for 63 miles, 128 miles are constructed of a compacted cinder surface, and dirt roads account for the remaining 136 miles. We were hired to develop an installation-wide Transportation Plan for Camp Navajo and a detailed Transportation Plan for the Phase I Harvest Area. The development of an installation-wide Transportation Plan is necessary to establish a broad concept plan for roads, trails, and training features essential to support the United States military mission and training needs.

In addition to the installation-wide transportation planning effort, a more detailed plan is required for 4,700 acres of the site, identified as the Phase I Harvest Area. The plans and drawings developed as part of this project will provide for the implementation of planned forest treatments and the construction of roadways to allow for the harvest and removal of materials, while also meeting military mission needs. The ultimate objective for this and future phases is to implement planned forest treatments to reduce the risk of large scale wildfires of severe intensity within the boundaries of Camp Navajo.

Due to the sheer number of roadways and trails throughout the base, the initial phase involved a detailed assessment of available records. Close coordination with the AZDEMA GIS was necessary to understand what data was available and what other resources could be utilized to fill any gaps. Once the data was compiled, it was consolidated into a single ArcGIS (v10.1) to allow for easy manipulation for the design of the roadways in the Phase 1 Harvest Area and to develop exhibits for the final transportation plan report.

The transportation plan and designs adhered to the guidelines of other planning documents previously prepared for the military facility:

- LTC-Light Environmental Assessment Plan
- Camp Navajo Forest Management Plan
- Camp Navajo Integrated Natural Resources Management Plan

Type of Roadway	Miles of Roadway
Paved Surface	63 miles
Compacted Cinder Surface	128 miles
Dirt Roads	136 miles

Roadway Inventory



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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> Allison Road Improvements (56th Street to Kyrene Road) - Gila River Indian Community, AZ		b. YEAR COMPLETED	
		PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i> 2013
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER Lone Butte Development Corporation	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$258,500 (civil and survey fees)	e. TOTAL COST OF PROJECT \$2,450,000 (construction)	

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

Our project team provided engineering design services for 1 mile of improvements within an active industrial complex and crossing a Pima-Maricopa Irrigation Project (PMIP) canal plus a Union Pacific Rail Road (UPRR) line. The project included roadway widening (the addition of a lane and replacement of pavement along the entire section), improvements to the Allison Road and 56th Street intersection, as well as 0.5-mile of 12-inch water line and 1 mile of 12-inch sewer line replacements. Traffic control and maintaining access to the local businesses were key issues for this project. Coordination with LBIDC tenants and a well-thought-out traffic control plan were essential to maintain turning radii for truck traffic.

The project also required relocation of overhead and underground utilities, permits from both UPRR and PMIP, as well as coordination with the Gila River Indian Community Department of Transportation and Bureau of Indian affairs. We provided boundary survey and results of survey map for acquisition of road right-of-way. Obtaining the necessary ROW required extensive interaction with these agencies, LBIDC, the industrial tenants, and multiple-allotment property owners (unique to Native American lands). We also assisted the client in obtaining the PMIP permit for the water line crossing.

Construction-related services included attending the preconstruction conference, reviewing contractor's shop drawing submittals and pay requests, attending progress meetings, weekly site visits, and participating in the project closeout. During construction, we assisted the client in obtaining UPRR permits for the roadway, water line, and sewer line crossings. We also provided construction staking services.



The Allison Road improvements were completed 2 months ahead of schedule and 3 percent below estimated cost!



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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.)

STRAND ASSOCIATES, INC.® (STRAND) has been providing civil and environmental engineering and science services since 1946. We attribute our organizational strength to our talented engineers and scientists, effective management, and most of all, commitment to nurturing long-term client relationships. We offer a complete staff of engineers, landscape architects, surveyors and technicians who specialize in site and land development and water, wastewater, and transportation engineering. Our staff of 350 is located in 10 offices throughout the U.S.

Since 1982, our Phoenix office has built a successful track record of completing projects on time and within budget. We remain responsive to our clients' needs by maintaining an experienced, qualified staff; state-of-the-art technologies, including GPS and 3-D laser scanning; as well as the latest in hardware and software technologies for design, scheduling, and accounting.

Our Corporate Mission states that we are dedicated to helping our clients succeed through excellence in engineering. In accordance with this mission, we are continually expanding our staff and service offerings to broaden our base of experience and knowledge so that we can provide more creative and comprehensive solutions to our clients' needs.

Wide range of services to meet all project needs. Our areas of specialization include:

- Civil and municipal engineering
- Surveying
- Site and land development
- Water supply engineering
- Wastewater treatment and conveyance
- Architectural design & structural/facilities engineering
- Electrical and HVAC engineering
- Transportation engineering
- Environmental Assessments
- Stormwater management
- GIS and Information technology
- Construction -related services

More information on these engineering disciplines can be found on our web site, www.strand.com.

Reliable consulting service has cultivated long-standing client relationships.

Our clients rely on us as a partner in addressing their engineering and science needs. We have developed and maintained long-standing affiliations, many extending into several decades of service. For some clients, we serve as appointed engineers and are active committee members; for others, we serve as specialty consultants to their in-house staff on an as-needed basis. With all of our clients, our service is flexible and tailored to their unique needs.

Effective management practices provide a stable foundation.

To serve our clients effectively, we employ a horizontal project management structure. For each project, a principal engineer is assigned to provide technical and office resource support. Other day-to-day decisions, however, are made at the project level by the engineers most familiar and involved with the work.

Clients find reassurance in the fact that each of our engineers and scientists is supported by the expertise of a multi-disciplined engineering firm. This approach enables use of all our firm's resources while maintaining the personal involvement associated with a single-point-of-contact; a person who has been trained to provide assistance through planning, design, and implementation.

State-of-the-art facilities and technology allow us to maximize the level of effort applied to a project while minimizing cost. To better serve our clients' needs, we continually upgrade the technology at each of our offices and train our staff to use the latest tools available effectively. Our offices are comparably equipped with videoconferencing, which allows face-to-face communications, in real time, between our clients and our experts around the nation. The videoconferencing computers are integrated with our Local Area Network (LAN) and Wide Area Network (WAN), permitting direct digital sharing of drawings and files across the videoconferencing network. With ready access, we can collaborate our expertise without the added expenses of time and travel, resulting in more constructive design hours devoted to projects.

Innovative project management techniques produce quality, on-time, cost-effective projects.

To promote quality on our projects, we have developed an internal Quality Control (QC) program that focuses on applying quality peer review at each step of the design process. As each project is scoped, a Project Management Memorandum (PMM) is issued by the Project Manager that describes the individual QC plan for the project. By assembling the QC plan at project scoping, all team members are aware of the stages at which quality reviews will take place and can plan accordingly.



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Our corporate-wide scheduling system can give us up-to-the-day status reports on the schedule of every staff member at all of our offices. We can make a commitment to project schedules, because each month we know the 2-year work load of every employee.

High level of service made possible because of dedicated, results-oriented staff.

Only with solid management practices could a company in this industry establish such an impressive tenure. We are owned and operated by our active engineering staff.

2014 Staff Resources

Total Staff	350
Engineers/Scientists	220 (63%)
Other Professionals	35 (10%)
Technical Support	60 (17%)
Administrative Support	35 (10%)

Our expert staff of 350 employees represents the academic backgrounds and experience of all disciplines normally necessary to successfully complete a project. More than 50 colleges and universities are represented on our staff. Impressively, our engineers and scientists have an average of more than 10 years of experience and the majority are licensed or have advanced degrees. We understand the value our clients place on *consistency* of personnel and *continuity* in project development. Accordingly, we expend every effort to make sure that the team initially chosen is involved with a project from beginning to end.

Key Personnel	Role	Representative Projects									
		1	2	3	4	5	6	7	8	9	10
B. H. Fullerton, P.E., LEED® AP	Operations / Project Mgr.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
A. N. Brooks, P.E., R.L.S.	QC/Constructability Reviews	✓	✓		✓	✓		✓			
J.H. Tonthat, P.E., CFM	Project Manager/Engineer	✓	✓		✓	✓		✓	✓	✓	
J.S. Held, P.E., PTOE	Traffic/Transportation Eng.	✓								✓	
B.R. Flippo, R.L.S., CFedS	Survey Manager	✓	✓		✓	✓	✓	✓	✓		✓
Projects Key (and location of project description within this document)											
1	Grand Canyon University Campus-Wide Expansion Program - Phoenix, AZ (Pg 9)	6	Maricopa County Community Colleges On-Call Engineering Services - Maricopa County, AZ (Pg. 4)								
2	19th Avenue Improvements, Baseline Road to Southern Avenue - Phoenix, AZ (Pg. 10)	7	Mummy Mountain 3-inch Waterline - Phoenix, AZ (Page 5)								
3	CG1207 Waterline Rehabilitation Project - Buckeye, AZ (Pg. 11)	8	ASU Desert Arboretum Park - Tempe, AZ (Pg. 6)								
4	Camp Navajo Transportation Plan and Phase 1 Harvest Area Roadway Design - Bellemont, AZ (Pg. 12)	9	US 18/151/Verona Road ITS and Adaptive Signal Control Evaluation - Madison, WI (Pg. 7)								
5	Allison Road Street and Utility Improvements - Gila River Indian Community, AZ (Pg. 13)	10	City of Avondale On-Call Land Surveying Services - Avondale, AZ (Pg. 8)								

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:	87
b.	Percentage of Total Work Attributable to Non-Government Work:	13

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

Signature: 

Date: December 30, 2014

Name: Baird H. Fullerton, P.E., LEED® AP

Title: Phoenix Director of Operations

For more location information
please visit www.strand.com

Office Locations

Cincinnati, Ohio | 513.861.5600

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*Corporate Headquarters

