



ATTACHMENT I – General Qualifications
ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSPO15-00004729

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:	Woodson Engineering & Surveying, Inc.
b. FIRM (OR BRANCH OFFICE) STREET:	124 N Elden Street
c. FIRM (OR BRANCH OFFICE) CITY:	Flagstaff
d. FIRM (OR BRANCH OFFICE) STATE:	AZ
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	86001
f. YEAR ESTABLISHED:	1994
(g1). OWNERSHIP - TYPE:	Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	yes
h. POINT OF CONTACT NAME AND TITLE:	Jeff Swan, Senior Project Manager
i. POINT OF CONTACT TELEPHONE NUMBER:	928-774-4636
j. POINT OF CONTACT E-MAIL ADDRESS:	jswan@woodsoneng.com
k. NAME OF FIRM <i>(If block 1a is a branch office):</i>	



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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 <i>(see below)</i>
1	Airports; Terminals and Hangars; Freight Handling	1
6	Commercial Building (low rise); Shopping Centers	1
6	Construction Surveying	1
2	Forensic Engineering	1
9	Highways; Streets; Airfield Paving; Parking Lots	2
10	Housing (Residential, Multi-Family; Apartments; Condominiums)	2
12	Land Surveying	1
2	Recreation Facilities (parks, Marinas, Etc.)	1
10	Sewage Collection, Treatment and Disposal	2
9	Surveying; Platting; Mapping; Flood Plain Studies	2
6	Storm Water Handling and Facilities	2
3	Traffic and Transportation Engineering	1
14	Topographic Surveying and Mapping	2
4	Transportation	1
8	Water Supply; Treatment and Distribution	2
3	Zoning; Land Use Studies	1

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- | | |
|--|--|
| <ul style="list-style-type: none"> 1. Less than \$100,000 2. \$100,000 to less than \$250,000 3. \$250,000 to less than \$500,000 4. \$500,000 to less than \$1 million 5. \$1 million to less than \$2 million | <ul style="list-style-type: none"> 6. \$2 million to less than \$5 million 7. \$5 million to less than \$10 million 8. \$10 million to less than \$25 million 9. \$25 million to less than \$50 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 Mark W. Woodson	b. ROLE IN THIS CONTRACT Project Principal	c. YEARS EXPERIENCE	
		1. TOTAL 36	2. WITH CURRENT FIRM 20.5
d. FIRM NAME AND LOCATION <i>(City and State)</i> Woodson Engineering & Surveying, Flagstaff, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BSCE (Civil Engineering) University of Arizona MBA, University of Arizona		f. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Arizona, Professional Engineer (Civil), #14855 Arizona, Registered Land Surveyor, #16630	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Fellow, American Society of Civil Engineers, 2002 John C. Park Outstanding Civil Engineer			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
1)	Contract City Engineer, City of Winslow, Winslow, AZ	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Serves as the contract City Engineer. As the engineer, advised staff on engineering related projects. Assisted in the management of capital projects for both design and construction. Reviewed and approved developer projects and coordinated with developer's engineers.		
2)	Flagstaff Unified School District, Flagstaff, AZ	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Principal in charge for on-call services for capital and adjacent-ways improvements throughout the district		
3)	Coconino Community College, Flagstaff, AZ	2004	2004
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Planning, design and construction of a new \$19M Campus on 40 Acres. This project took years to develop. Mark was involved with the preliminary planning, continued through design, and provided construction related services. Site improvements included water, sewer, streets, sidewalks and all other general improvements that make a final campus.		
4)	Contract City Engineer, City of Holbrook, Holbrook, AZ	2008	2008
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Served as the contract City Engineer, assisted with various municipal projects. As the engineer, advised city staff on engineering related projects. Assisted in the management of capital projects for both design and construction. Reviewed and approved developed projects and coordinated with the developer's engineers.		
5)	City of Flagstaff City Engineer, Flagstaff, AZ	1993	1993
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Served as the City Engineer for the City of Flagstaff. In that role, supervised: Private Development Review, Capital Improvements, Traffic Engineering, Materials Testing, Inspection, Survey and Contracts Administration. He also served as the liaison for the City with NAU and other local agencies for related and co-funded construction projects during that period.		



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a. NAME Rick Schuller		b. ROLE IN THIS CONTRACT Associate Principal		c. YEARS EXPERIENCE	
				1. TOTAL 24	2. WITH CURRENT FIRM 15
d. FIRM NAME AND LOCATION (City and State) Woodson Engineering & Surveying, Flagstaff, AZ					
e. EDUCATION (DEGREE AND SPECIALIZATION) University of Minnesota, BS Civil Engineering			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer, Minnesota - Civil, #24709 Professional Engineer, Arizona - Civil, #34537		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Northern Arizona Builders Association, Arizona Floodplain Managers Assoc., American Society of Civil Engineers					
H. RELEVANT PROJECTS					
1)	(1) TITLE AND LOCATION (City and State) Flagstaff 2010 Bond Beaver St and Leroux St., Flagstaff, AZ		(2) Year Completed		
			Professional Services 2012	Construction (if applicable) 2012	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Utility and streetscape design for sewer, water, interceptor sewer, streets, curb & gutter, ADA ramps and analysis of local drainage and hydrologic and hydraulics conditions of existing drainage systems in area. Performed joint constructability review of all components with contractor. Work included topographic and location survey, field investigation of existing drainage infrastructure and alternative analysis and design construction services. Design Cost \$250,000, Construction Cost \$2.4 mil. Project delivery is CMAR.				
2)	(1) TITLE AND LOCATION (City and State) Northern Arizona Intergovernmental Public Transportation Authority (NAIPTA) Transit Link Project, Flagstaff, AZ		(2) Year Completed		
			Professional Services 2011	Construction (if applicable) 2012	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm A design/build project, which, teamed Woodson Engineering with a national engineering firm and a large Arizona contractor. Woodson Engineering provided the survey and mapping work used to develop project base maps. We also provided drainage and utility design work for this entire project which consisted of a new roadway servicing the transit link right through the existing NAU campus along with new updated bus stops in the Flagstaff downtown area and Woodlands Village. The City of Flagstaff, NAIPTA and NAU were all partners in this Federally and locally funded project. Size: 5 miles. Design Cost \$370,413, Construction Cost \$4.2 million.				
3)	(1) TITLE AND LOCATION (City and State) Southside Improvement Project, City of Flagstaff On-Call, Flagstaff, AZ		(2) Year Completed		
			Professional Services 2008	Construction (if applicable) 2010	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Provided surveying, planning and engineering services on a traffic calming street and sidewalk restoration project as part of our On-Call Contract with the City of Flagstaff. Scope includes curb bumpouts, street reconstruction or pavement overlay, sidewalks, lighting, trees and street furniture. Rick was project manager for this multifaceted, complex project. Estimated construction cost \$1 million.				
4)	(1) TITLE AND LOCATION (City and State) Flagstaff Unified School District, Sinagua High School: New Athletic Field, Track, Parking Lot Addition and Reconstruction, Flagstaff, AZ		(2) Year Completed		
			Professional Services 2009	Construction (if applicable) 2009	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Provided surveying, planning and engineering services for a new artificial multi-use field and track and for a parking lot addition and a parking lot reconstruction project as part of our On Call Services. Rick is project manager for these projects which included stormwater management for the fields and parking lots. We performed parking lot layout and circulation planning including student access and ADA access. Construction cost is \$1.3 million.				
5)	(1) TITLE AND LOCATION (City and State) Coconino Community College, Flagstaff, AZ		(2) Year Completed		
			Professional Services 2004	Construction (if applicable) 2004	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm As the project manager, Rick was responsible for the coordination and design of the offsite improvements and for civil construction administration of the new Flagstaff Campus. Woodson was responsible for design of the civil improvements for the campus including the access road, pedestrian and bicycle access and intersection improvements at Lone Tree Road.				



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a. NAME Jeff Swan	b. ROLE IN THIS CONTRACT Senior Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 42	2. WITH CURRENT FIRM 8
d. FIRM NAME AND LOCATION (City and State) Woodson Engineering & Surveying, Flagstaff, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) BSE (Civil Engineering) California Polytechnic Univ. MPA, Northern Arizona University		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Arizona, Professional Engineer (Civil), #10518 Arizona, Registered Land Surveyor, #17524 Certified Floodplain Manager through AFPM	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Member ASCE, Member Intertribal Transportation Association Member Arizona Intelligent Transportation System			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	City of Winslow Floodplain Mapping, Winslow AZ	Underway	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Managed the floodplain study process resulting in modifications to the existing floodplain maps. Approximately 900 properties are beneficially impacted.		
2)	Ruby Wash Diversion Levee Recertification, Winslow, AZ	Underway	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Managed the levee recertification process in accordance with FEMA and Corps of Engineers requirements. Levee was recertified in 2010. FEMA is in the process of revising the Floodplain Maps.		
3)	Snowflake - Concho Road, Snowflake, AZ	2011	2011
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Managed the design and construction of the widening and rehabilitation of 1 mile of roadway. Construction Cost was \$411,000.		
4)	Economic Development along SR 77, Taylor, AZ, AZ	2010	2010
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Managed the design of widening and signalization of a state highway for commercial development occurring along the highway. Project partially funded by a Department of Commerce grant. Construction contract was \$322,221.		
5)	Arizona Department of Transportation District Engineer, Holbrook, AZ	2003	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Managed the operations, construction program, and administrative programs for the Holbrook District including developing and supporting county, municipal and tribal transportation projects. Major projects included widening of SR 264 in Window Rock, construction of Querino Wash Bridge on I-40, assisting in attaining and constructing Transportation Enhancement projects in Holbrook, Winslow, and Kaventa.		



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a. NAME James A. Folkers	b. ROLE IN THIS CONTRACT Survey Manager	c. YEARS EXPERIENCE	
		1. TOTAL 40	2. WITH CURRENT FIRM 3.75
d. FIRM NAME AND LOCATION (City and State) Woodson Engineering & Surveying, Flagstaff, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) DeVry Institute of Technology Northern Arizona University, BS		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Arizona, Registered Land Surveyor, #18215	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Arizona Professional Land Surveyors Assoc, Arizona Professional Land Surveyors Education Foundation, Arizona Board of Technical Registration Enforcement Advisory Committee Member, Public Land Survey System Education Foundation, National Society of Professional Surveyors, Western Federation of Professional Surveyors.			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	City of Flagstaff, Butler Avenue Medians, Flagstaff, AZ	2012	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE With tough traffic and weather conditions, we performed a topographical survey of Butler Avenue, gathering needed information allowing our engineering team to evaluate and design landscape medians improvements along Butler Avenue between Beaver Street and Lone Tree Road.		
2)	City of Flagstaff, South Beaver St & South Leroux St, Flagstaff, AZ	2012	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE A detailed topographical survey of South Beaver and South Leroux in downtown Flagstaff was performed. The survey information guided our engineering team to complete construction and utility documents for the City of Flagstaff. We also performed construction staking on the project. Size 7 Blocks. Design Cost \$250,000, Construction Cost \$2.4 million		
3)	Cedar Ridge, Flagstaff AZ	2011	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provide survey services consisting of construction staking of the access road. This work included set-up calculations based on the plans and plate3 of the Presidio in the Pines project for control and typing this together in the field with the Cedar Ridge subdivision. We provided one set of centerline offset stakes with cuts/fills to finish grade. We [performed a topographic survey of Detention Basins 2 and 6 including the outlet structures elevations for the purpose of verifying the as-constructed storage volumes of the basins. The civil construction is approximately \$4 million.		
4)	City of Flagstaff - Various, Flagstaff, AZ	2011	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Numerous boundary, control and topographic surveys for various projects including Pulliam Airport Water Storage Tank, Flagstaff Urban Trail System, Reclaimed Waterline, Rio Homes, Sunnyside Improvements Phase II, and LiDAR mapping elevation project evaluation.		
5)	HDR, Twin Arrows, AZ	2011	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Photogrammetric control survey, ALTA/ACSM Land Title Survey, and easement descriptions for new casino site.		



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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section 4 for each key person.)

a. NAME Sandy Phillips	b. ROLE IN THIS CONTRACT Project Manager Civil Engineering & Design	c. YEARS EXPERIENCE	
		1. TOTAL 29	2. WITH CURRENT FIRM .5
d. FIRM NAME AND LOCATION (City and State) Woodson Engineering & Surveying, Flagstaff, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) BSCE, California Polytechnic State University of San Luis Obispo		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer (Civil), Arizona, #26962 Professional Engineer (Civil), California #47720	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Member: American Society of Civil Engineers.			

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) City of Winslow Animal Care Facility, Winslow, AZ	(2) Year Completed	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Woodson Engineering is providing surveying services, civil site design, utility plan design and construction administration for the new City Animal Care Facility. We are working with a local Architect and city staff to program this facility, provide design documents, provide bidding services and construction administration thru close out.		
2)	(1) TITLE AND LOCATION (City and State) City of Winslow Renaissance V on Route 66, Winslow, AZ	(2) Year Completed	
		Professional Services Underway	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm This project includes construction of pedestrian, bicycle and roadway improvements along Second and Third Streets. Additional work includes Environmental Documents and Design Plans		
3)	(1) TITLE AND LOCATION (City and State) Westwing Mountain, Peoria, AZ	(2) Year Completed	
		Professional Services Underway	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Slope Analysis was performed on eleven hillside lots to determine buildability and value. Grading and drainage plans have been prepared for two of the lots to assist in the sale.		
4)	(1) TITLE AND LOCATION (City and State) Tonto Forest Estates, Maricopa County, AZ	(2) Year Completed	
		Professional Services 2005	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm This 100-acre semi-custom home development was cut into the existing terrain to maintain the beauty of the existing desert. These 1 acre sites were designed to allow the rainfall to travel in it's historic manner to not decrease the flows to the existing vegetation downstream. Ms. Phillips, under the supervision of a Registered Land Surveyor, performed many of the As-Builts to make sure the in-field adjustments still met the intent of the plans, the County's requirements and the Owner's desires.		
5)	(1) TITLE AND LOCATION (City and State) Northside Horse Outfitters, Goodyear, AZ	(2) Year Completed	
		Professional Services 2010	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Ms. Phillips performed site grading, retention calcs, access design, and water and fire service for this equestrian park in Goodyear, AZ. HEC-RAS was used to delineate the on-site wash limits so that construction did not encroach on these limits and additional armoring and the associated costs were not required.		



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a. NAME Alicia Stoffers	b. ROLE IN THIS CONTRACT Design Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 12	2. WITH CURRENT FIRM 12
d. FIRM NAME AND LOCATION (City and State) Woodson Engineering & Surveying, Flagstaff, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) BS Civil Engineering with Emphasis in Environmental Engineering Northern Arizona University		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer (Civil), Arizona, #49953	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	Southside Improvement Project, City of Flagstaff On Call Flagstaff, AZ	2010	2010
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Provided surveying, planning and engineering services on a traffic calming street and sidewalk restoration project as part of our On-Call Contract with the City of Flagstaff. Scope included curb bumpouts, street reconstruction or pavement overlay, sidewalks, lighting, trees and street furniture. . Size: 8 city blocks. Design Cost \$143,205, Construction Cost \$1.397 million (included 100% Rebuild of AC)		
2)	Winslow Southside Water, Winslow, AZ	2012	2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm The Southside Waterline project was designed for the City of Winslow. The waterline was constructed to replace aging infrastructure and provide additional redundancy to the system needed for the Southside neighborhood in Winslow, AZ. Woodson Engineering also designed and obtained permits from BNSF for two borings of the waterline under the BNSF railroad tracks.		
3)	NAIPTA Transit Link Project, Flagstaff, AZ	2011	2011
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm This design/build project teamed Woodson Engineering with Jacobs Engineering and Hunter Contracting. Alicia Stoffers was the design engineer for drainage and utility work for this project which consisted of a new transit link through NAU campus along with new updated bus stops in the Flagstaff downtown area and Woodlands Village. Size: 5 miles. Design Cost \$370,413, Construction Cost \$4.2 million		
4)	City of Winslow Utility Mapping and Modeling, Winslow, AZ	Ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mapping & Modeling of the existing water and sewer infrastructure for the entire public utilities system for the City of Winslow.		
5)	Ridge at Clear Creek, Flagstaff, AZ	2013	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Engineering services necessary to provide for the planning, development review board approval, platting and construction documents to construct 17 apartment buildings. The civil construction is approximately \$4 million. This project is very complex with many different variables required to be incorporated into the project. These include future right of way for a Lone Tree Road traffic interchange, numerous easements, connection to Forest Service Research Station waterline, Low Impact Development Criteria for Storm Water Management, offsite sanitary sewer in ADOT right of way and resource preservation requirements.		



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a. NAME Sirisha Kalluri	b. ROLE IN THIS CONTRACT Design Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 11	2. WITH CURRENT FIRM .5
d. FIRM NAME AND LOCATION (City and State) Woodson Engineering & Surveying, Flagstaff, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) BS Civil Engineering, Osmania University MS Civil Engineering, Lamar University		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer (Civil) Arizona #51844 Professional Engineer (Civil) Nevada # 19547 Certified Floodplain Manager US-14-07483	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	Copeland Regional Detention Basin, Flagstaff, AZ	Underway	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm The proposed improvements include three sediment traps and two detention ponds located on approximately 80 acres of undeveloped land located west of and adjacent to US 89 between Copeland Lane and Kevin's Way. Ms. Kalluri is involved in design and analysis of Storm Water Management facilities, Best Management Practices (BMPs), Erosion Control facilities, channels and box culverts. She prepared drainage report, cost estimate and worked on special provisions.		
2)	Grand Canyon Camper Village Master Drainage Plan	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Prepared a master drainage plan including hydrology and hydraulics analysis. Provided alternative drainage design including channels, concrete box culverts, and pipe culverts so that subject property could be developed further and kept out of flood plain.		
3)	Elkhorn Springs and Buffalo Drive storm drain system, Las Vegas NV	2009	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Ms. Kalluri was Lead Designer of the 1600-ft long storm drain system. She was involved in as built plan review and site visits to delineate the basin boundaries. She performed the detention basin stage storage calculations and provided alternatives for outflow pipes to minimize the impact on downstream facilities. She designed the analyzed storm drain system to route additional flow to the detention basin to utilize the unused capacity of the basin.		
4)	(1) TITLE AND LOCATION (City and State). Conditional Letter of Map Revision (CLOMR) for Blue Diamond Crossing, Las Vegas, NV	Profess2006	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Ms. Kalluri prepared Conditional Letter of Map Revision (CLOMR) application for a 60-Acre commercial site, Blue Diamond Crossing located in SFHA Zone AE to remove the project site from flood zone. The CLOMR application included analyzing a proposed 45-foot trapezoidal channel of approximately 2400-foot using HEC-RAS. Performed detailed hydraulic modeling to compare the pre and the post-development water surface elevations to satisfy FEMA criteria. A CLOMR application and hydrologic/hydraulic report was submitted to FEMA for review and approval.		
5)			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		



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a. NAME Mike Farley	b. ROLE IN THIS CONTRACT Design Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 15	2. WITH CURRENT FIRM 1.5

d. FIRM NAME AND LOCATION (City and State) Woodson Engineering & Surveying, Flagstaff, AZ

e. EDUCATION (DEGREE AND SPECIALIZATION) BS Civil Engineering, Arizona State University	f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer (Civil) Arizona, 42736 Professional Engineer (Civil) Colorado, 45679
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g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	Flagstaff Sanitary Manhole Assessment Project, Flagstaff, AZ	Ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm This work consists of providing a manhole condition assessment for a portion of the existing City sanitary sewer system, (over 270 manholes), for the purpose of extrapolating the findings to the overall system to determine future capital expenditures related to rehabilitation and replacement of system manholes. For this project we provided visual condition assessment of each manhole, pole camera documentation of the manholes, and documenting the level of distress encountered at each manhole.		
2)	Arizona State Land Department, Phoenix, AZ	2013	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Performed coordination/review of engineer studies which involved State Trust Land (STL) consisting of drainage, transportation, water and wastewater infrastructure master planning.		
3)	City of Surprise 16 inch Reclaim Water Main, Cactus Rd, Litchfield Rd to Dysart Rd Surprise, AZ	2007	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Engineer of Record in charge of the preparation of construction plans for 1 mile of a new 16 inch reclaimed water distribution main. Oversee utility coordination, identifying pipeline horizontal and vertical alignment. Coordinate with EIT & drafter internally and suppliers, the BNSF Railroad, other consulting engineers and city personnel externally. Performed opinion of probably cost estimates for new reclaimed water main. Coordinated the MCESD submittal in order to obtain an Approval to Construct permit from Maricopa County. Aided the City of Surprise in obtaining a railroad permit for installing infrastructure underneath an existing railroad.		
4)	City of Cottonwood Water Systems Evaluation, Cottonwood, AZ	2003	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Responsibilities included water quality, financial, and hydraulic analysis of three private water companies in Cottonwood. This study utilized engineering economics to establish present worth of each company based on age, expected lifespan, and condition of equipment. Performed current water demands analysis throughout the study area to be used in WaterCAD in order to accurately model each water system.		



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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section 4 for each key person.)

a. NAME Chris Hull	b. ROLE IN THIS CONTRACT Survey Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 18	2. WITH CURRENT FIRM 6
d. FIRM NAME AND LOCATION (City and State) Woodson Engineering & Surveying			
e. EDUCATION (DEGREE AND SPECIALIZATION) Denver Institute of Technology Surveying and Mapping		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Land Surveyor, Arizona, #39469 Registered Land Surveyor, Utah, #56141302201 Registered Land Surveyor, Colorado #37951	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Arizona Professional Land Surveyors			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	Peabody Mapping Survey, Kayenta, AZ	2011	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Chris was responsible for setting and locating the aerial targets used to map 11 miles of road for the Peabody Coal Mine on the Navajo Reservation, a corridor of 800 feet wide centered on Navajo Route 41 from the Highway 160 intersection south to where the Black Mesa Haul Road and NR 41 intersect.		
2)	City of Flagstaff Beaver & Leroux Survey, Flagstaff, AZ	2013	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Chris did a detailed topographic survey of Beaver and Leroux Streets in downtown to aid in the design of new utility lines and road improvement. The survey information guided the engineering team to complete construction and utility documents for the City of Flagstaff. Chris also performed construction staking on the project.		
3)	NAIPTA Mountain Links, Flagstaff, AZ (Northern Arizona Intergovernmental Public Transportation Authority)	2009	2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Chris provided the necessary construction layout in order to build the bus route through the Northern Arizona University Campus, and other bus stop locations throughout Flagstaff including the downtown area. Size: 5 miles. Design Cost \$370,413, Construction Cost \$4.2 million		
4)	City of Flagstaff Schultz Waterline	2012	2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Chris performed a topographic survey of the lower portion of waterline for use in the design of a new waterline. Chris was involved in the construction layout of the new line on the lower portion.		
5)	City of Flagstaff Observatory Mesa	2013	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Performed an ALTA/ACSM Land Title Survey of ± four sections of land on Observatory Mesa for purchase from the State of Arizona by the City of Flagstaff.		



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

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

a. TITLE AND LOCATION (City and State) Winslow Renaissance on Route 66 Projects Winslow, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) 2011 through Phase 3

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER City of Winslow	d. DOLLAR AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT \$5,000,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

PROJECT DESCRIPTION: Woodson Engineering provided the City of Winslow with Construction Management services to support their efforts in implementing Transportation Enhancement (TE) grants from the ADOT-FHWA for the renovation of old US Route 66, a total of nearly 4 miles. Woodson provided CM services, including:

- Preparing Bid Documents, advertisements for bid and bid tabulation.
- Facilitating the pre-bid meeting.
- Facilitating weekly construction progress meetings.
- Reviewing and approving pay applications.
- Conducting employee interviews to meet federal requirements for FHWA grant funded work.
- Reviewing Davis-Bacon wage rates and actual wages earned by construction workers subject to the federal guidelines.
- Facilitating pre-final and final walkthroughs to develop punch lists for final work to be completed and final payment.

LOCATION OF THE PROJECT: The Renaissance Projects are located along 2nd and 3rd Streets in Winslow from Hipkoe Drive to Transcon Lane.

PROJECT OWNER, POINT OF CONTACT AND PHONE NUMBER: The owner of the project was the City of Winslow, Stephen J. Paukin, City Manager, (928) 289-2423.

SIZE, SCHEDULE, BUDGET AND COMPLEXITY: The project consists of 4 miles of 2 to 3 lane roadway and sidewalks varying from 4' to 8' in width. Thus far, a total of over \$5,000,000 worth of work has been constructed.

YEAR COMPLETED: The last phase, phase III was constructed in 2011. Phases IV and V are scheduled for completion in 2013.



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

a. TITLE AND LOCATION (City and State) Winslow Floodplain Physical Map Revision	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER City of Winslow	d. DOLLAR AMOUNT OF PROJECT \$197,000	e. TOTAL COST OF PROJECT \$197,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

PROJECT DESCRIPTION: This Environmental Engineering and Planning project involved a floodplain delineation study after determining that with the de-accreditation of the Little Colorado River Levee, east of the City, approximately 3,000 properties were placed in a Special Flood Hazard Area (SFHA) Zone A. Initial review estimated that approximately 40% of the properties would have the flood risk and flood insurance reduced if a delineation study was performed. The study has involved coordination with the US Army Corps of Engineers (USACE) and Navajo County to ensure that the feasibility study of rehabilitating the levee and this delineation project do not conclude with conflicting results which would impact the local residents. Tasks included validating a survey performed by the county, validating hydrologic data, determining flow patterns and depths over several square miles, determining the floodway, preparing the necessary analysis maps and presentations for the City, and coordinating with FEMA in terms of how to apply the results so that the proper risk levels could be assigned. The use of HEC-RAS and AutoCad were instrumental in developing the maps necessary to demonstrate to the stakeholders the analysis and impacts on the community in delineating the floodplain.

This project has involved a close working relationship between Woodson and DuBroy Engineering along with FEMA, USACE, Navajo County, and the City of Winslow. The technical challenges were solved through the constant communication and data sharing between Woodson and DuBroy.

LOCATION OF THE PROJECT: Winslow, AZ
PROJECT OWNER, POINT OF CONTACT AND PHONE NUMBER: The project owner is City of Winslow, Stephen J. Paukin, City Manager, (928) 289-2423.

SIZE, SCHEDULE, BUDGET AND COMPLEXITY: Project encompassed over 10 square miles of study area and required iterative uses of the HEC-RAS software to accommodate changing conditions and client preference. The budget for performing this work is \$197,000.



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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> NAIPTA Transit Link Survey Flagstaff, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2011	CONSTRUCTION <i>(If applicable)</i> 2011

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER City of Flagstaff, NAIPTA (Northern Arizona Intergovernmental Public Transportation Authority), Northern Arizona University	d. DOLLAR AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT \$4,470,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

PROJECT DESCRIPTION: Design and Construction Staking, Aerial Topo Survey: We provided the topographic survey, survey control, drainage design and utility location and relocation work for this project.

This project illustrated our ability to be part of a design/build multi-disciplinary team (Hunter/Jacobs/Woodson) for a major transit project which consists of a new transit link through NAU campus along with new updated bus stops in the City downtown area and Woodlands Village. The City of Flagstaff, NAU and the owner NAIPTA affected public and NAU faculty, staff, and students. We provided the topographic survey, survey control, and construction staking and utility relocation work for this project.

LOCATION OF THE PROJECT: Through the NAU campus, City of Flagstaff downtown area and Woodlands Village.

PROJECT OWNER, POINT OF CONTACT AND PHONE NUMBER: The project owners were NAU, City of Flagstaff and Northern Arizona Intergovernmental Public Transportation Authority (NAIPTA). Points of Contact are Jeff Meilbeck, General Manager, 928-679-8909 and Dave Smith, Facilities and Security Manager, 928-679-8924.

SIZE, SCHEDULE, BUDGET AND COMPLEXITY: The length of this project was 5 miles with a design and construction cost of \$4,470,000. The project was complicated by the lack of documentation for the existing underground infrastructure. Extensive potholing was required to determine existing conditions.



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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> Coconino County Copeland Regional Detention Basin north of Flagstaff, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> Ongoing

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Coconino County Public Works	d. DOLLAR AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT \$10 Million
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

PROJECT DESCRIPTION: This project involves the design of detention basins southwest of the intersection of Copeland Drive and US 89, north of Flagstaff. These detention basins are to protect US 89 from future overtopping and regulate the flows that initiate within the Shultz Fire burn area. Project involves extensive coordination with the Federal Highway Administration, ADOT, Coconino County, local residents, and other stakeholders in the area. The design involves up to one million cubic yards of excavation and embankment to construct the basins and absorb the additional flows from the burn area. Project is being funded with FHWA emergency relief funds.

LOCATION OF THE PROJECT: north of Flagstaff, Coconino County, AZ

PROJECT OWNER, POINT OF CONTACT AND PHONE NUMBER: The project owner is Coconino County Public Works. Dustin Woodman, 928-679-8306

SIZE, SCHEDULE, BUDGET AND COMPLEXITY: 80 acres. Ongoing.

This project demonstrates Woodson Engineering's ability to work with many different agencies and to assist the County in meeting the federal funding requirements and maximizing the funds available to complete the project. This project also illustrates our ability to provide scheduling assistance to a public entity on a very complex project. The County had no real idea of the scheduling of this Federal process and Woodson Engineering provided this service.



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

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

a. TITLE AND LOCATION (City and State) Flagstaff South Beaver and South Leroux Improvements	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 2013

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER City of Flagstaff	d. DOLLAR AMOUNT OF PROJECT \$250,000	e. TOTAL COST OF PROJECT \$2,400,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project

PROJECT DESCRIPTION: Engineering design for the City of Flagstaff South Beaver & South Leroux 2010 Bond Improvement Project located in the Southside neighborhood of Flagstaff. This work consisted of utility and streetscape design for sewer, water, interceptor sewer, streets, curb & gutter, ADA ramps and analysis of local drainage and hydrologic and hydraulics conditions of the existing drainage systems in the area. Performed joint constructability review of all components with contractor. Our work included topographic and location survey, field investigation of existing drainage infrastructure, an alternatives analysis and design and constructability review. This project is being delivered with a Construction-Manager-At-Risk method and is expected to begin construction in 2013. This project is indicative of Woodson Engineering's working closely with the client to ensure that the analysis and design of the new facilities would not adversely impact existing facilities.

LOCATION OF THE PROJECT: This project is located on South Beaver Street and South Leroux Street in Flagstaff, AZ.

PROJECT OWNER, POINT OF CONTACT AND PHONE NUMBER: The owner of the project is City of Flagstaff, Randy Groth, Senior Project Manager, (928) 213-2683

SIZE, SCHEDULE, BUDGET AND COMPLEXITY: 7 Blocks
Design Cost \$250,000, Construction Cost \$2.4 million
Key Issues: Constructability review of project in very tight working conditions with heavy pedestrian and student traffic.



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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.)

Woodson Engineering and Surveying, Inc. is a multi-disciplinary firm in Flagstaff, Arizona, engaged in land surveying, land planning, and civil engineering. We realize that service to our clients is our most important marketing tool. Service, along with the knowledge and experience of our personnel and the state-of-the-art equipment that is available to our personnel, leads to the successful completion of quality projects. **Woodson Engineering** is unique in its ability to successfully work with both private developers and public agency clients, and can handle a broad range of projects. Since 1994, the objective of **Woodson Engineering** has been to provide quality surveying, planning and civil engineering services to our clients. This is accomplished because of our commitment to excellence.

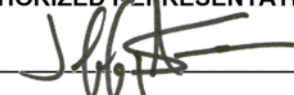
SERVICES

- **Surveying** - Boundary and cadastral surveys, right-of-way surveys, subdivision layouts, parcel splits, topographic surveys, asbuilt surveys, ALTA surveys, construction staking.
- **Feasibility Studies, Preliminary Planning, Land Use and Master Plans** - Investigation of development potential and costs, preliminary development plans or alignment studies, improvement district development, project scoping, development master plans and land use planning.
- **Site Development** - Residential, institutional, commercial and industrial developments ranging from single building site plans to large developments.
- **Right-of-way Services** - Alignment studies, surveys, and mapping, negotiations for property acquisitions, research property ownership and easements, write legal descriptions, recording of documents, and final property staking.
- **Infrastructure Studies and Design** - Water, sewer, drainage, roadway, facility and airport studies and designs for individual residences and site plans, subdivision, or large municipal systems.
- **Drainage and Flood Control** - From permitting to local storm drains and detention basins to major flood control studies and projects including floodplain studies.
- **Construction Contract Administration** - Cost estimating, specifications, bidding assistance, and overall construction administration.
- **Government Engineering On-Call Services** - Services such as plan review, planning and programming of capital improvement plans, and other contract government engineering services.

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

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

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

Signature: 

Date: December 30, 2014

Name: Jeff Swan

Title: Senior Project Manager