



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:	Turner Engineering, Inc.
b. FIRM (OR BRANCH OFFICE) STREET:	528 West Aspen Avenue
c. FIRM (OR BRANCH OFFICE) CITY:	Flagstaff
d. FIRM (OR BRANCH OFFICE) STATE:	Arizona
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	86001

f. YEAR ESTABLISHED:	1986
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(g1). OWNERSHIP - TYPE:	Corporation – Sub S
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	Small Business, Veteran Owned

h. POINT OF CONTACT NAME AND TITLE:	Paul W. Turner, P.E. CFM, President
i. POINT OF CONTACT TELEPHONE NUMBER:	928 779-1814
j. POINT OF CONTACT E-MAIL ADDRESS:	pturner@teiaz.com

k. NAME OF FIRM (If block 1a is a branch office):	
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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
Civil Engineer	P	1	
Civil Engineer	S	1	
CADD Technician	S	1	
Project Manager	P	1	
Other	S	1	
Total		4	



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

a. NAME Paul W. Turner, P.E. CFM	b. ROLE IN THIS CONTRACT Principal/Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 30	2. WITH CURRENT FIRM 28
d. LOCATION <i>(City and State)</i> Flagstaff, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Science in Engineering (Civil)		f. PROFESSIONAL TRAINING - REGISTRATIONS Registered Civil Engineer Arizona 16258, New Mexico 10281 ASFPM Certified Floodplain Manager # US-11-05848,	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Life Member of the American Society of Civil Engineers, Member of National Society of Professional Engineers, USGBC LEED Green Associate, Current Member of the City of Flagstaff's Planning and Zoning Commission, Past Chair of the Water Commission, Past Chair of the Stormwater Advisory Committee, Volunteer of the Year Award Greater Flagstaff Chamber of Commerce.			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Switzer Canyon Water Transmission Main Phase I – Design and Construction Assistance Flagstaff, Arizona	(2) YEAR COMPLETED 2013	
		Professional Services 2013	Construction (if applicable) 2013.
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Replaced 60 year old Cast Iron Water Main with 3,021 Linear Feet of 20" Ductile Iron Water Main. Value Added – Maintained Existing Water Service During Construction. Designed 326 Feet of New 16" Water Main, 768 Feet of New 8" Water Main. Re-Connected all Mains and Service Lines While Keeping Customers in Service. Project Principle and Manager Roles. Construction Cost \$1,000,483.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Rose Street Rehabilitation – Water, Sewer, Storm Drainage Flagstaff, Arizona	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Reconstructed 2,400 Linear Feet of Roadway with New Curbs, Gutters, & Sidewalk. Value Added - Designed All New Stormdrain System to Mitigate Flooding, Maintained Services. Replaced 2,100 feet of 8" Sanitary Sewer and 73 Sewer Services. All Work Done Within a Neighborhood that has Existed for Over 60 Years. Project Principle and Manager Roles. Construction Cost \$1,521,878.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Cameron Vendor Village - Access to ADOT Right of Way, Cameron, Arizona	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Located at Highway US 89 & 64 Cameron, Arizona Provided Plans and Specifications to ADOT for Lease Access from Highway 89 to Site, Cameron Vendor Village. Value Added – Moved Access for Better Site Egress to Hwy 89. Project Principal and Manager Roles. Construction Cost \$59,0381	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> Switzer Canyon Water Transmission Main Phase II – Design and Construction Assistance Flagstaff, Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE 4,129 Linear Feet of 20 inch Ductile Iron Pipe and Associated Valves and Bends. Quality. Value Added – Replaced 60 Year Old Damaged Transmission Main While in Service. Project Principle and Manager Roles Construction Cost \$1,217,213	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION <i>(City and State)</i> Pinewood Boulevard Drainage and Pavement Preservation Project Assessment Pinewood, Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Length 1.03 Miles. Four major Drainage Structures Value Added - Project Assessment performed under ADOT Guidelines. Project Principal and Manager Roles. Construction is not anticipated until spring of 2015. Engineer's Estimate \$2,694,5301	<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	
Michael D. Kearly, PE, CFM	Professional Engineer/Designer	1. TOTAL 19	2. WITH CURRENT FIRM 11
d. LOCATION (City and State) Flagstaff, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION)		f. PROFESSIONAL TRAINING - REGISTRATIONS	
Bachelor of Science in Engineering (Civil)		Registered Civil Engineer; AZ 34587; NV 22774	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)			
Certified Floodplain Manager (CFM); Cert# US-11-50834			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Floodplain Mapping of South Fork Clay Avenue Wash Flagstaff, AZ	Professional Services 2007	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Lead designer for CLOMR?LOMR relative to mapping approximately ½ mile of channel and floodplain through private property that had previously been mapped as Approximate Zone A. The CLOMR/LOMR provided formal and final FMEA and Local permitting & approval of grading activities that had previously been completed along and within two adjacent reaches of the wash. One reach had previously received CLOMR approval and the other downstream reach had been modified by the owner outside of permitting.		
2.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	East Industrial Drive Improvements, Flagstaff, AZ	Professional Services 2009	Construction (if applicable) 2015 (scheduled)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Lead Designer for one half mile of improvements to a small local road to convert it to a fully developed, paved corridor. Professional services included road plan and profile development, layout and design of utilities including water and sewer mains and hydrologic and hydraulic calculations and modeling of stormdrain systems, stormwater detention basins and Low Impact Development (LID). Approx \$2M Construction cost.		
3.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Brandis Way EWP Flood Mitigation Plan	Professional Services 2013	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	
	Engineering Project Manager for design services when employed by Coconino County as Assistant County Engineer. Managed design of a \$3.6M Emergency Watershed Protection project funded by NRCS. Project included drainage improvements/flood mitigation and extended approximately 2 miles from within USFS lands, through rural residential areas to ADOT right-of-way. Managed all engineering design from procurement of consultant services through completion and final acceptance of design.		
4.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Picture Canyon Meander Restoration - Phase II: Flagstaff, AZ	Professional Services 2014	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	
	Lead Designer for a steam channel restoration project in northeast Flagstaff, AZ. Included grading design and plan development, field data collection, identifying Ordinary High Water Mark (OHWM), preparing Preliminary Jurisdictional Determination report for ACOE submittal and approval, 404 permitting through ACOE, and providing construction administration services through completion of construction. Earthwork related construction costs of approximately \$100K.		
5.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Kerley Valley Irrigation Bridge Repair, Tuba City, AZ	Professional Services 2013	Construction (if applicable) 2015 (pending)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	
	Lead Designer/Project Manager. Replacement of a small, failing bridge with concrete box culvert at a perennial wash crossing of local road. Included hydrologic and hydraulic analysis as well as designing permanent scour protection to an impaired reach of the wash below the bridge. Estimated Construction Costs of approximately \$100K.		



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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> Rose Street Rehabilitation and Drainage Improvements Flagstaff, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If applicable)</i> 2014

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER City of Flagstaff	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$1,880,000	e. TOTAL COST OF PROJECT \$1,521,878
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Reconstructed 2,400 Linear Feet of Roadway with New Curbs, Gutters, & Sidewalk. Value Added - Designed All New Stormdrain System to Mitigate Flooding, and Maintained Services during construction. Replaced 2,100 feet of 8" Sanitary Sewer and 73 Sewer Services. All work was done within a Neighborhood that has existed for over 60 years. Original budget did not include the storm drainage work as it was identified in the Engineer's Design Report after the original budget was prepared by the City. Total project cost was under the Engineer's Opinion of Probable Cost.

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> County Club to Mall Way – Flagstaff Urban Trail System (FUTS) Flagstaff, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If applicable)</i> 2011

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER City of Flagstaff	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$490,000	e. TOTAL COST OF PROJECT \$460,171
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

This addition to the FUTS added 2,100 linear feet to the 50 miles that are already with the Trail System. This trail is 10 feet wide with a concrete surface. The unique design consideration for the horizontal alignment was to place the trail between the Flagstaff Mall to the north and Historic Route 66 to the south. Keeping in mind that Route 66 would be widened as the Mall expanded. The alignment was curvilinear and not just a straight line. Topography and sight distance was a concern in the vertical alignment. Existing drainage was another obstacle to overcome. Special consideration was given to the trail section make-up. Some of the soils in the area were weak and a special reinforced section was designed to span the poor soil conditions. This demonstrates that our team can provide the design and engineering necessary to complete the City's vision of this vital trail link.



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a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Switzer Canyon Water Transmission Main Phase I Flagstaff, Arizona	2014	2014

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
City of Flagstaff	\$980,000	\$1,000,483

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

Replaced 60 year old 16 inch Cast Iron Water Main with 3,021 Linear Feet of 20" Ductile Iron Water Main. Value Added – Maintained Existing Water Service During Construction. Designed 326 Feet of New 16" Water Main, 768 Feet of New 8" Water Main. Re-Connected all Mains and Service Lines While Keeping Customers in Service. Maintained access to adjacent properties and businesses during construction.

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

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

a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Upper Campbell Ditch – Flood Control Flagstaff, Arizona	2012	2013

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Coconino County, Arizona	\$1,000,000	\$1,009,728

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

Flooding from the Schultz Fire was inundating Campbell Avenue. We provided the plans and specifications to create a concrete channel along site of Campbell Ave to collect the upstream run-off from the burned forest. The channel had a capacity to carry 880 c.f.s. with one foot of free board and was 2,150 linear feet. We also provided construction assistance for this project.



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

a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Woody Mountain Water Transmission Main Flagstaff, Arizona	2014	2014

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
W. L. Gore and Associates, Inc.	\$1,200,000	\$1,097,744

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

Plans and Specifications and Construction Management Assistance for West Route 66 Water Transmission Main • Assisted with the Construction Management of 3,335 feet of 18" Ductile Iron Pipe Water Main and 3,142 feet of 12" Ductile Iron and PVC Water Main. Value Added – provided looped water main for the west side of the City of Flagstaff. We also secured the Approval by the Arizona Department of Environmental Quality to construct this project.



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6. ADDITIONAL INFORMATION

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

FIRM AND PROJECT MANAGERS QUALIFICATIONS

TURNER ENGINEERING, INC. PAUL W. TURNER, P.E. CFM, PRINCIPAL/PROJECT MANAGER

PARTIAL CLIENT LIST:

- 1) City of Flagstaff, Utilities and Capital Improvements – ON-CALL City Wide
 - Flagstaff Urban Trail System – Country Club Road to Mall Way – Contact Mr. Martin Ince, Multi-Modal Planner, (928) 213-2685 & Mr. Randall Groth, Senior Project Manager (928) 213-2683
 - Switzer Canyon Water Transmission Main – Phase I - Contact Mr. Ryan Roberts, P.E., Utilities Engineer, (928) 213-2410
 - Rose Street Reconstruction, Drainage, Water and Sewer - Contact: Mr. Randall Groth, Senior Project Manager (928) 213-2683
 - Switzer Canyon Water Transmission Main – Phase II - Contact Mr. Ryan Roberts, P.E., Utilities Engineer, (928) 213-2410
 - Wildcat Hill Wastewater Treatment Plant – Bio-Gas Cogeneration Solutions - Contact Mr. Ryan Roberts, P.E., Utilities Engineer, (928) 213-2410
 - Switzer Canyon Water Transmission Main – Phase III - Contact Mr. Trevor Henry, Senior Project Manager (928) 213-2684
 - Schultz Creek Floodplain Realignment at Highway 180 to Rio-de-Flag (Underway) – Contact: Malcolm Alter P.E. CFM, Stormwater Manager, (928) 213-2470

- 2) Coconino County, Public Works Department, Arizona – ON-CALL County Wide
 - Girls Ranch Berm Reconstruction - Contact: Mr. JD Brice II, Capital Projects Manager (928) 679-8348
 - Campbell Avenue Drainage Flood Control Ditch - Contact: Mr. JD Brice II, Capital Projects Manager (928) 679-8348
 - Rodeo Drive/Campbell Avenue Intersection Reconstruction for Flood Control - Contact: Mr. JD Brice II, Capital Projects Manager (928) 679-8348
 - Munds Park Bridge Deck Replacement Project - Contact: Mr. JD Brice II, Capital Projects Manager (928) 679-8348
 - Pinewood Boulevard Drainage and Pavement Preservation Study - Contact: Mr. JD Brice II, Capital Projects Manager (928) 679-8348

- 3) Non – Public Clients, Northern Arizona
 - Red Feather, Inc. Water Distribution Modeling - Contact: Mr. Paul L. Brinkman (928) 779-1050
 - W.L. Gore & Associates, Inc. Water Transmission Main - Contact: Ms. Mary Riek, Associate (928) 864-4362
 - Lowell Observatory – Site Plan - Contact: Mr. Bill DeGroff (928) 774-3358
 - W.L. Gore & Associates, Inc. Sewer Collection Trunk Main - Contact: Ms. Mary Riek, Associate (928) 864-4362
 - AR Mike Enterprise, Inc. ADOT Improvements on Highway 89 near Highway 64, Cameron - Contact Mr. Richard Mike (928) 697-3540

Please See Resumes Submitted as Item # 4 for Registrations in the State of Arizona. Turner Engineering, Inc. Firm Registration is 11396-0. Paul W. Turner, P.E. CFM, will be the Project Manager, Primary Contact for future Projects and will be responsible for Cost Estimates and Scheduling.

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:	72
b.	Percentage of Total Work Attributable to Non-Government Work:	28

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

Signature: Paul W. Turner

Date: December 18, 2014

Name: Paul W. Turner, P.E. CFM

Title: President/Principal