



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:	Gannett Fleming, Inc.
b. FIRM (OR BRANCH OFFICE) STREET:	4722 N. 24 th Street, Suite 250
c. FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d. FIRM (OR BRANCH OFFICE) STATE:	Arizona
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85016
f. YEAR ESTABLISHED:	1986
(g1). OWNERSHIP - TYPE:	Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	N/A
h. POINT OF CONTACT NAME AND TITLE:	John Derr, PE, Senior Vice President
i. POINT OF CONTACT TELEPHONE NUMBER:	602.553.8817 ext. 8265
j. POINT OF CONTACT E-MAIL ADDRESS:	jderr@gfnet.com
k. NAME OF FIRM (If block 1a is a branch office):	Gannett Fleming, 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	33	1
CADD Technician	P	100	6
Civil Engineer	P	310	9
Construction Inspector	P	160	4
Electrical Engineer	P	85	0
Geographic Information Specialist	P	54	1
Geologist	P	43	2
Industrial Engineer	P	9	0
Mechanical Engineer	P	22	0
Project Manager	P	300	6
Sanitary Engineer	P	35	1
Soils Engineer	P	54	6
Structural Engineer	P	134	6
Technician / Analyst	P	106	2
Transportation Engineer	P	205	6
Water Resources Engineer	P	62	3
Other	P	267	9
Total		1,979	62



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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)
1	Bridge Design / Bridges	4
1	Community Facilities	2
16	Structural Design	5
2	Construction Management	6
2	Dams (Concrete/Arch)	5
10	Dams (Earth/Rock) / Dikes / Levees	3
5	Sewage Collection, Treatment and Disposal	4
14	Elevators / Escalators / People-Movers	5
7	Stormwater Handling and Facilities	4
1	Garages / Vehicle Maintenance / Parking Decks	1
7	Highways / Streets / Airfield Paving / Parking Lots	4
3	Transportation	5
6	Water Resources / Hydrology / Groundwater	4
13	Water Supply / Treatment and Distribution	3
3	Land Surveying	2
91	Total	8

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

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



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

a. NAME Robert M. Stanley, PE, SE	b. ROLE IN THIS CONTRACT Project Manager & Structural Engineering	c. YEARS EXPERIENCE	
		1. TOTAL 34	2. WITH CURRENT FIRM 22
d. LOCATION <i>(City and State)</i> Gannett Fleming, Inc., Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S., Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS PE: Arizona (Civil) – No. 20954 (1987) PE: Arizona (Structural) – No. 27352 (1993)	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Professional Affiliations: Arizona State Board of Technical Registration (Structural Engineering Board Member); Arizona Consulting Engineers Association (Board of Directors); Structural Engineers Association of Arizona; Society of American Military Engineers; National Guard Association; American Institute of Steel Construction			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> PHX Sky Train™, Phoenix Sky Harbor International Airport, Phoenix, AZ, City of Phoenix Aviation Department	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Principal for a complex project consisting of four major design elements. The terminal 3 modifications involve extensive interior modifications inside the terminal building, including new elevator cores and the new connecting bridge to the new station. Terminal 4 modifications involve a structural analysis for the vertical transportation systems and modification to the concrete framing system to add new escalators. The East Economy Garages 1 and 2 design involves the removal and replacement of the existing elevator and stair cores to allow for the new train system. The 44 th Street train station design provides a link for the automated train to the Phoenix Light Rail system.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> South Tempe Water Treatment Plant Operations and Laboratory Building, Tempe, AZ, City of Tempe	(2) YEAR COMPLETED	
		Professional Services Ongoing	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Principal for the structural design of a 15,000 SF laboratory building. The project includes a general laboratory area, micro-lab area, a cooler, general office area, and staff washrooms. The project is currently in the final design stage. The building will have a Leadership in Energy and Environmental Design (LEED) Silver certification.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Phoenix Convention Center Expansion, Phase 2, North Hall, Phoenix, AZ, City of Phoenix	(2) YEAR COMPLETED	
		Professional Services 2009	Construction (if applicable) 2009
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Principal-In-Charge/Project Manager for the special structural inspection services for the 1.4 million SF building. NSB's on-site special inspection team provided full-time inspections for reinforcing steel placement, concrete placement, steel welding, and masonry construction on the total structure. The project was designed by Magnusson Klemencic of Seattle, WA. NSB was the design engineer for the parking, below grade, and foundations, and provided special inspections for the entire project.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> Vekol Park Structural Design and Construction Administration Services, Maricopa, AZ, City of Maricopa Parks and Recreation Department	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Principal/Project Manager for this new park, which is located next to the City's new multi-generational center and includes baseball/softball diamonds, soccer fields, volleyball courts, and a fishing lake. New structures include a new lake pump station, security fences, retaining walls at the lake, and baseball/softball backstops and fences.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION <i>(City and State)</i> Scottsdale Community College – Language/Communications, Scottsdale, AZ, Maricopa Community College District	(2) YEAR COMPLETED	
		Professional Services 2004	Construction (if applicable) 2005
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Principal/Project Manager for this new 28,055 SF facility at the Scottsdale Community College campus. The building features tiered lecture theaters, 28-foot-high ceilings in the writing center, 16 new laboratories / classrooms, 36 facility offices, lounge and conference rooms, and a large central courtyard with unique canopy structures. The structure consists of stack bond masonry exterior bearing walls with interior steel columns and a steel beam and joist roof system.	<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 Joseph Botchie, RA, NCARB		b. ROLE IN THIS CONTRACT Architecture		c. YEARS EXPERIENCE	
		1. TOTAL 42	2. WITH CURRENT FIRM 41		
d. LOCATION (City and State) Gannett Fleming, Inc., Harrisburg, PA					
e. EDUCATION (DEGREE AND SPECIALIZATION) B. Arch			f. PROFESSIONAL TRAINING - REGISTRATIONS RA: Arizona – No. 35429 (2000)		
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Professional Affiliations: Member of Alpha Rho Chi: National Professional Architectural Fraternity					

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) Roof Repair and Replacement, New Cumberland, PA, Defense Distribution Depot Susquehanna Pennsylvania	(2) YEAR COMPLETED	
		Professional Services 2009	Construction (if applicable) 2009
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Architect responsible for supervising the surveying and documentation of the repair or replacement of roofs on nine buildings, including one green roof.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (City and State) Bladensburg Renovation and Compressed Natural Gas (CNG) Conversion, Milestone 2: Facility Programming, Concept Development, and Preliminary Engineering, Task Order 4, Washington, DC, Washington Metropolitan Area Transit Authority	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Architect responsible for reviewing architectural concept demolition and new construction design documents, formulating outline specifications, and assisting with cost estimating and code compliance for the renovations and additions to an existing heavy overhaul maintenance and service vehicle maintenance shop facility. This one-story facility has approximately 152,280 SF on the main floor with approximately 18,700 SF of mezzanine spaces for offices, lockers, and other auxiliary functions. The project requires multiple on-site workshop meetings with the owner's representative and building tenants to ascertain requirements for operational functions. The main objectives of the project are to make the facility CNG-compliant, repurpose the facility for new and revised functions, improve safety, and improve employee working conditions. The drawings and scope were developed to a 30 percent completion level.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (City and State) Roof Repair and Replacement, New Cumberland, PA, U.S. Army Corps of Engineers	(2) YEAR COMPLETED	
		Professional Services 2008	Construction (if applicable) 2009
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Architect responsible for supervising the surveying and documentation of the repair or replacement of roofs on nine buildings, including one green roof.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (City and State) Buildings 57, 58 and 59 Fire Protection Systems, New Cumberland, PA, Defense Distribution Depot Susquehanna Pennsylvania	(2) YEAR COMPLETED	
		Professional Services Ongoing	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Architect responsible for review of cost estimates and specifications for three nitrogen-generation buildings in support of the sprinkler system upgrades to three large, primarily mixed-use warehouse facilities.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION (City and State) Renovations to Bare Building, Lancaster, PA, IBS Development Corporation	(2) YEAR COMPLETED	
		Professional Services 2006	Construction (if applicable) 2007
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager responsible for renovation of a 48,000-square-foot, two-story office building and the fit-out of one tenant. Developed architectural contract drawings for the renovation, which was previously a public safety building that contained a police station and firehouse. Added an interior elevator, new interior and exterior stairs, and several new toilet rooms. Also performed interior space planning, which involved laying out of more than 70 systems furniture workstations and the replacement of historical windows and a new roof.	<input checked="" type="checkbox"/> Check if project performed with current firm	



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a. NAME Sateesh Nabar, PhD, PE	b. ROLE IN THIS CONTRACT Structural Engineering	c. YEARS EXPERIENCE	
		1. TOTAL 42	2. WITH CURRENT FIRM 22
d. LOCATION (City and State) Gannett Fleming, Inc., Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.E., Civil Engineering M. Tech, Structural Engineering PhD, Structural Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS PE: Arizona (Civil) – No. 14621 (1982) PE: Arizona (Structural) – No. 21887 (1988)	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Professional Affiliations: Structural Engineers Association of Arizona; Arizona Consulting Engineers Association; International Conference of Building Officials; American Institute of Steel Construction; Structural Engineering Institute			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Tempe Town Lake Dam Replacement, Tempe, AZ, City of Tempe	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Structural Engineer for the evaluation and design for the replacement of the Tempe Town Lake downstream dam. Gannett Fleming is assisting the City to provide the best possible downstream dam replacement option. The initial phase involved developing alternatives for replacement of the downstream dam; conducting an alternatives workshop with project stakeholders; performing H&H analyses associated with the design inflow conditions; and preparing preliminary design plans, a basis of design report, and documentation for presentation of the alternatives process and recommended alternative to the City Council and Mayor. The design phase of the project will include performing site surveying; geotechnical investigation and analyses; conducting H&H, and structural analyses; preparing final construction plans and project specifications; and permitting.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	Unified Plant 2005 (UP05) Expansion, 91st Avenue Wastewater Treatment Plant, Phoenix, AZ, City of Phoenix	2010	2010
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager. Provided structural design and construction administration for the facility. The 30 mgd expansion had a construction budget of \$115M. The design tasks included new primary clarifiers, new aeration basins, a return activated sludge/waste pump station, new secondary sedimentation basins, and effluent conveyance structures.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	Basin Remediation at Deer Valley Water Treatment Plant, Phoenix, AZ, City of Phoenix	2011	2011
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This project involved removing half of the existing 50-year old Deer Valley Water Treatment Plant and replacing it with new facilities of same treatment capacity but with modern technology.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	42nd Place (1-ES4) Water Reservoir Project, Phoenix, AZ, City of Phoenix	2013	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This project started with evaluating an existing kidney-shaped 20 MG water reservoir that had structural distress. Repair and remediation necessary to use the reservoir resulted in the decision to demolish the reservoir and replace with two 8 MG reservoirs and a deep valve vault within the same footprint.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	10 MGD Expansion of Airport Water Reclamation Facility, Chandler, AZ, City of Chandler	2013	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This project consists of expanding the capacity of the existing Airport Water Reclamation Facility in Chandler by another 10 MGD to accommodate the flow from Intel's new chip manufacturing facility that is about to come on line. Work involved adding to existing facilities and construction new freestanding facilities for the expansion. Our firm has designed the two previous expansions to the plant.	<input checked="" type="checkbox"/>	Check if project performed with current firm



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a. NAME Luigi Leone	b. ROLE IN THIS CONTRACT Industrial Engineering – Maintenance Facilities	c. YEARS EXPERIENCE	
		1. TOTAL 34	2. WITH CURRENT FIRM 30

d. LOCATION (City and State)
Gannett Fleming, Inc., Phoenix, AZ

e. EDUCATION (DEGREE AND SPECIALIZATION) California State Polytechnic University, 1975-1978 California State University, 1979-1981	f. PROFESSIONAL TRAINING - REGISTRATIONS N/A
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g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	PHX Sky Train™, Phoenix Sky Harbor International Airport, Phoenix, AZ, City of Phoenix Aviation Department	2008	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Task Manager for the preliminary engineering of a new maintenance and storage facility to serve the airport's PHX Sky Train fleet. Responsibilities included leading the maintenance facilities design team and overseeing the preparation of 30% documents to be included as part of the bid process. The design addressed several major components, including a 90,000 SF, two-story maintenance building that includes a Central Control Center, administrative offices, four heavy and four inspection/light-maintenance bays, support shops, parts storage, and a traction power substation.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	Transit Maintenance and Administration Facility Design-Build Services, Fort Defiance, AZ, Navajo Transit System	2011	2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Design Project Manager/Industrial Designer for the design and construction of a new 50-bus transit maintenance facility. The work included the design of a new pre-engineered 12,500 SF building to house staff on a site that is complemented by fuel and wash facilities, an above-ground fueling station, automobile and bus parking for its current and future fleet, and retention basins throughout the site for flood control. The facility includes a two-level structure with four maintenance bays, support shops, parts storage, a dispatch area, and an administration-area mezzanine level. Responsibilities involved managing multidisciplinary design personnel, and the industrial design included programming, site layouts, facility layouts, and equipment layouts.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	New Fleet Maintenance Facility, Tucson, AZ, Pima County	2012	2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Subconsultant Project Manager and Senior Maintenance Facilities Specialist for the design and construction of a new maintenance facility for a fleet consisting of more than 2,000 vehicles ranging from automotive to heavy equipment. Responsibilities included supporting the architect with industrial engineering to provide maintenance equipment and shop layouts for the entire facility, equipment specifications, and equipment cost estimates. The project was generated as a Revit3D model as part of a building modeling effort for this Leadership in Energy and Environmental Design (LEED) facility.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	Bus Operations, Maintenance, and Administrative Facilities, Bakersfield, CA, Golden Empire Transit District	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Subconsultant Project Manager responsible for overseeing the industrial and structural design support for the programming and design of a new compressed natural gas (CNG) bus maintenance building. Responsibilities include providing shop layouts, procuring equipment/specifications and estimating cost, and generating a Revit model.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	Modesto Area Express Bus Maintenance, Operations, and Storage Facility, Modesto, CA, City of Modesto	2011	2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Subconsultant Project Manager responsible for industrial engineering for a new 70-bus maintenance facility. Responsibilities included generating an equipment list, providing shop layouts, and assisting in generating alternative bus parking layouts.	<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 Alan Huffman	b. ROLE IN THIS CONTRACT Electrical Engineering	c. YEARS EXPERIENCE	
		1. TOTAL 43	2. WITH CURRENT FIRM 15

d. LOCATION (City and State)
 Gannett Fleming, Inc., Pittsburgh, PA

e. EDUCATION (DEGREE AND SPECIALIZATION)
 B.S., Electrical Engineering
 M.S., Electrical Engineering

f. PROFESSIONAL TRAINING - REGISTRATIONS
 PE: Arizona – No. 37636 (2002)

g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)
 Professional Affiliations: Institute of Electrical and Electronic Engineers (Industry Applications Society, Power Engineering Society); Association for Iron and Steel Technology Publications: Cheng, A.P., A.R. Huffman, and R.L. Morgan. "Fort Pitt Tunnel Lighting Rehabilitation." Presented at the IESNA Conference, Chicago, IL, 2003, and published in the 2003 IESNA Conference Proceedings; Huffman, A.R., D.A. Gall, and C.E. Hunting. "Six Algol Subroutines for the Optimization of a Function with an Arbitrary Number of Variables."

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Tunnel Lighting, Boston Heights, OH, Village of Boston Heights	2013	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Electrical Project Manager responsible for the design of lighting for a new bicycle/pedestrian tunnel.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	New Chemical Treatment Facility and Clearwell, Meadville, PA, Meadville Area Water Authority	2013	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Electrical Project Manager responsible for the electrical design of a new chemical treatment facility, associated building, and clearwell at an existing water treatment plant.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	Pump Station Improvements, Pine Township, Mercer County, PA, Pine Township	2013	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Electrical Project Manager responsible for the design of electrical modifications associated with replacement of existing pumps, comminutor, control panels, and building improvements to existing sewage pumping station.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	Roadway Lighting, I-70, Washington County, PA, Pennsylvania Department of Transportation, District 12-0	2013	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Electrical Project Manager responsible for designing new and modified roadway lighting for I-70 from the Murtland Avenue Interchange to the I-79 North Interchange. Project includes a diverging diamond interchange at Murtland Avenue.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	Data Center HVAC System Upgrades, Washington County, PA, Washington County	2008	2008
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager responsible for the design of heating, ventilation, and air-conditioning (HVAC) system upgrades to two data centers in support of additional computer load for 911 system enlargements.	<input checked="" type="checkbox"/>	Check if project performed with current firm



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a. NAME Thomas Long, PE, LEED AP	b. ROLE IN THIS CONTRACT Mechanical Engineering	c. YEARS EXPERIENCE	
		1. TOTAL 45	2. WITH CURRENT FIRM 21
d. LOCATION (City and State) Gannett Fleming, Inc., Harrisburg, PA			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S., Mechanical Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS PE: Arizona – No. 53671 (2012) USGBC – LEED 2.0 Accredited Professional (2002)	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Professional Affiliations: American Society of Heating, Refrigerating and Air-Conditioning Engineers (Past Chapter President)			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) On-Call General Architectural and Engineering Consultant Services, Washington, DC, Washington Metropolitan Area Transit Authority	(2) YEAR COMPLETED	
		Professional Services Ongoing	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mechanical Discipline Manager responsible for managing a variety of assignments and providing general architecture and engineering services for WMATA's \$5 billion, 6-year capital program. Responsible for design of HVAC, plumbing, industrial piping, and fire protection systems for existing bus and rail facilities; development of construction documents for bidding and construction; and mechanical system commissioning.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (City and State) Solar Power Generating Station Equipment Permitting Review, AZ, Confidential Client	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mechanical Engineer responsible for assisting in meeting code and industry standards applicable to equipment furnished for a 280 MW plant located within 2 square miles of desert farmland. Project tasks included reviewing specifications and related data for equipment manufactured overseas and documenting compliance with federal, state, and local codes and standards. Where equipment did not comply, recommendations were made for modifications required to meet the particular code or standard. Facilitated coordination among owner, contractor, equipment suppliers, and code officials to make certain that project schedule was not jeopardized by failure to meet applicable requirements.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (City and State) Upgrade HVAC Systems, Maritime College, Bronx, NY, New York State University Construction Fund	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable) 2010
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Discipline Manager responsible for the mechanical design of upgraded HVAC systems for the Science and Engineering Building on the college campus. Services included design and construction administration for the renovation of the building. The owner's intent was to replace or upgrade central mechanical equipment located in the mechanical rooms.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (City and State) Bus Operations and Maintenance Facilities, Richmond, VA, GRTC Transit System	(2) YEAR COMPLETED	
		Professional Services 2007	Construction (if applicable) 2008
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mechanical Discipline Manager responsible for the design of a new facility for storing and maintaining the full GRTC fleet of approximately 200 buses and vans. The building design includes energy-efficient HVAC systems that combine heat recovery, dedicated outside air units, and variable-air-volume control. The building is designed to meet Leadership in Energy and Environmental Design (LEED) standards for sustainability.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION (City and State) Afghan National Police Logistics Center, Maydan Shahr, Wardak Province, Afghanistan, U.S. Army Corps of Engineers, Afghanistan Engineer District	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable) 2010
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Discipline Manager responsible for providing HVAC and plumbing design services for the development of a new complex of buildings to support the Afghan National Police logistics efforts throughout Afghanistan.	<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 Anthony DeFrancesco, CEI	b. ROLE IN THIS CONTRACT Vertical Transportation	c. YEARS EXPERIENCE	
		1. TOTAL 23	2. WITH CURRENT FIRM 13

d. LOCATION *(City and State)*
Gannett Fleming, Inc., Phoenix, AZ

e. EDUCATION *(DEGREE AND SPECIALIZATION)*
B.S., Mechanical Engineering

f. PROFESSIONAL TRAINING - REGISTRATIONS
CEI: ASME A17.1 Q.E.I.-1 – No. C-4256 (2001)

g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*
Professional Affiliations: National Association of Elevator Safety Authorities International

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	On-Call, Open-End Vertical Transportation Services, Phoenix, AZ, Maricopa County	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Principal responsible for contract management, project oversight, and project personnel who are responsible for providing on-call vertical transportation engineering and related services on a purchase-order basis. Our firm's first task is to perform design development, construction documentation, QA/QC, bid document reviews, and construction administration and inspection services for the modernization of nine elevators at the Maricopa County Central Courts Building.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	PHX Sky Train™ Post-Design Services, Phoenix Sky Harbor International Airport, Phoenix, AZ, City of Phoenix Aviation Department	2013	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Vertical Transportation Specialist responsible for facilities design for the PHX Sky Train, an automated people mover system. As part of our services, our firm provided post-design services related to the construction of the vertical transportation elements, including elevators, escalators, and moving walks, within the new station facilities and the existing Terminal 4. Our firm worked closely with the contractor during construction by providing construction monitoring and oversight, including field inspections and reviews, responding to requests for information, and other design-related issues.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	Terminal 3 North Concourse Elevator Design, Phoenix Sky Harbor International Airport, Phoenix, AZ, City of Phoenix Aviation Department	2013	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager responsible for the design of a new machine roomless service elevator to service the North Concourse of Terminal 3. The elevator serves the apron, passenger, and roof levels and is suitable for Class C3 loading. The elevator design also accommodates gurney access for use by emergency medical personnel. Responsibilities included the development of contract documents, specifications, and drawings associated with the elevator installation.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	Design-Build Elevator Modernization at Barrister Place Building, Phoenix, AZ, City of Phoenix	2008	2008
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager responsible for providing bridging services for the modernization of two traction elevators. Conducted a detailed needs assessment of the existing equipment to determine its condition, remaining service life, and potential for reuse. Performed an as-found survey of existing conditions sufficient to produce drawings that were used by the design-build contractor as a reference for design and development of the cost proposal for construction. Also prepared a detailed, performance-based equipment specification for the elevator modernization.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	Capital Mall Elevator Modernization, Elevator #1, Arizona Department of Administration Services	2013	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Principal for final design and construction documents for elevator #1 modernization including upgrades to the machine room, the hoistway, and the pit.	<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 Jonathan Pollack	b. ROLE IN THIS CONTRACT Geospatial Technologies / Asset Management	c. YEARS EXPERIENCE	
		1. TOTAL 28	2. WITH CURRENT FIRM 22
d. LOCATION (City and State) Gannett Fleming, Inc., Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.A., Anthropology M.A., Anthropology (Archaeology) M.S., Agronomy (Soil Science)		f. PROFESSIONAL TRAINING - REGISTRATIONS N/A	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Transportation Logistics Program, Various Clients	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Developer of a commercial transportation logistics business unit that consists of end-to-end solutions for Global Positioning Systems (GPS) and radio frequency identification (RFID) location-based services. The business unit covers hardware, airtime/messaging, and analysis, alerting, and reporting services. Researched and established industry partnerships with terrestrial- (radio and cellular) and satellite-based airtime and messaging providers including Code-Division Multiple Access, Global System for Mobile Communications/General Packet Radio Service, RFID, Trunk Radio, Globalstar, ORBCOMM, and Iridium. These included both battery-powered and wired-for-power technologies. Focus was on a "vendor neutral" approach to establishing partners for "best of breed" offering at lowest cost. Oversaw the development of a robust, user-friendly geospatial portal application (GeoILS) for visualization, analysis, alert/notification, and reporting.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	GIS Consulting Services, Falconer, NY, FORECON, Inc.	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Director for ongoing work to assist this multidisciplinary forestry and natural resources management consulting firm in successfully managing large tracts of land. The firm manages nearly 300,000 acres of prime hardwood timberlands for individuals and institutional investment groups throughout New York, Pennsylvania, and West Virginia. GeoDecisions and FORECON have embarked on an extensive campaign to bring this technology to its clients, from developing mapping tools to creating a Web portal to help clients more efficiently view and maximize land resources.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	Indefinite Delivery Contract for Architectural/Engineering Services, Nationwide, U.S. Army Corps of Engineers, Norfolk District	2005	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Director for GIS implementation for this contract, which included task orders for GIS implementation and IRRIS® maintenance and upgrades.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	Online Archaeological Site Submittal System, Harrisburg, PA, Pennsylvania Department of Transportation	2002	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for the development of an online application to allow users to enter and submit archaeological site information to the Pennsylvania Historical & Museum Commission. The application replaced a cumbersome error-prone paper system.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	Support and Development Project, Harrisburg, PA, Pennsylvania Department of Transportation	2002	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE GIS Specialist to assist PennDOT's Geographic Information Division (GID) in supporting existing applications and users, maintaining its information technology (IT) systems and processes, managing its distributed Oracle databases, and developing new applications for the intranet and Internet.	<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 S. Nasir Raza, PE, CFM	b. ROLE IN THIS CONTRACT Infrastructure Planning / Hydrology & Hydraulics	c. YEARS EXPERIENCE	
		1. TOTAL 29	2. WITH CURRENT FIRM 7
d. LOCATION (City and State) Gannett Fleming, Inc., Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.E., Civil Engineering M.S., Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS PE: Arizona – No. 26132 (1992) ASFPM Certified Floodplain Manager – No. US-09-04398 (2009)	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Professional Affiliations: American Society of Civil Engineers; Arizona Floodplain Management Agency			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Desert Ridge, Azara and Paradise Ridge, North Phoenix, AZ, Arizona State Land Department and Private Developers	2011	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for various project elements including land use; roadways; drainage; water; wastewater and utilities master plans and modeling including updates, due diligence studies for appraisal, construction documents, net development costs (construction, impact fees/credits) through IAM and spreadsheets, and 404 reviews and monitoring.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	Area 4E Hydrology, North Phoenix, AZ, Arizona State Land Department	2012	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager to create a regional hydrologic model and to estimate flows for the significant washes that traverse the project area. The results of the hydrologic analysis were used to designate washes as high-, medium-, or low-value riparian habitat watercourses.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	Butler Valley Basin Recharge and Recovery, Western, AZ, Arizona State Land Department	2013	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager. Prepared an extensive study of the potential a) recharge infrastructure consisting of inflow structures at CAP canal, recharge transmission lines and recharge basins along with required power facilities and streets and b) recovery infrastructure recovery wells, transmission lines and discharge structure at CAP canal. The interactive financial scenarios spreadsheet enables the ASLD to quantify costs for studies, infrastructure and operation/maintenance based on different implementation periods.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	Agua Fria River Floodplain Delineation at Avondale Reclamation Plant, Avondale, AZ, City of Avondale	2012	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager. Prepared complicated split and lateral overflow hydraulic analyses of the floodplain to remove (FEMA) Zone "A" designation and obtain a CLOMR.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	Solana Generating Station, Gila Bend, AZ, Abengoa	2013	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager. Prepared contour mapping, ALTA surveys, right-of-way and property ownership maps; subsurface geotechnical investigations; drainage (hydrologic/hydraulic and scour/sediment transport analyses for designing detention basins, storm drains, and open channels), roadway, water, wastewater, and dry utilities infrastructure studies and construction plans within two square miles of desert farmland, to build one of the largest solar power plants in the world. Both GIS and AutoCAD were used extensively.	<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 Robert Ward, PE	b. ROLE IN THIS CONTRACT Sediment Transportation	c. YEARS EXPERIENCE	
		1. TOTAL 41	2. WITH CURRENT FIRM 4
d. LOCATION (City and State) Gannett Fleming, Inc., Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S., Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS PE: Arizona – No. 13505 (1981)	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) On-Call Engineering Service on Chaparral Wash Outfall System Improvements, Bullhead City, AZ, Bullhead City	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Responsibilities included reviewing the technical hydrology/hydraulics and sediment transport analyses to resolve the frequent and long-standing flooding and sedimentation problems in local streets. Mitigation was achieved by changing street grades and providing a channel to the Colorado River.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (City and State) On-Call Engineering Services for 56th Street Water Line, Hydrology/Hydraulics and Scour Technical Review, Phoenix, AZ, City of Phoenix	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Responsible for reviewing the hydrologic, hydraulic, and scour analyses associated with providing a safe scour depth for the proposed water line along Pinnacle Peak Road and 56th Street.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (City and State) On-Call Engineering Services, Avondale, AZ, City of Avondale	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Responsible for reviewing the hydraulic analyses related to the Agua Fria River Floodplain Study for the Reclamation Plant. A fairly complicated analysis of split flow, lateral weir flow, and optimization was used to change the undefined Federal Emergency Management Agency Zone A to Zone X.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (City and State) On-Call Engineering Services, AZ, Arizona State Land Department / Azara	(2) YEAR COMPLETED	
		Professional Services 2007	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Prepared the Hydrology Update, Master Drainage Plan, Tatum East-West Planning Area, Phoenix, Arizona, report. This report addresses not only the on-site and off-site hydrology for TEW (both pre- and post-development) but also develops and models a proposed interior drainage system that includes "404" wash corridors and detention basins. All hydrologic modeling was performed with HEC-1. The TEW drainage system is directly connected to the drainage system that was previously designed (and partially constructed) for Desert Ridge.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION (City and State) On-Call Engineering Services for Paradise Ridge, AZ, Arizona State Land Department	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Prepared a report titled Hydrology Analysis, Jurisdictional "404" Washes, Master Drainage Plan, Paradise Ridge, Phoenix, Arizona, March 20, 2001. This report developed the hydrology information that was used to identify all of the "404" wash corridors and a proposed master drainage plan for Paradise Ridge.	<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 Karen Hobbs, PE		b. ROLE IN THIS CONTRACT Transportation Engineering		c. YEARS EXPERIENCE	
		1. TOTAL 20	2. WITH CURRENT FIRM 4		
d. LOCATION (City and State) Gannett Fleming, Inc., Phoenix, AZ					
e. EDUCATION (DEGREE AND SPECIALIZATION) B.A., Mathematics			f. PROFESSIONAL TRAINING - REGISTRATIONS PE: Arizona – No. 41977 (2004)		
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)					

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) On-Call Statewide and Valley District Minor Design Projects, S.R. 95 Game Fencing, Mohave County, AZ, Arizona Department of Transportation	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for the design and placement of game fence along both sides of the 12-mile roadway segment of S.R. 95. The scope of work includes development of a scoping letter; development of construction documents for game fence, goat bars, and elk jumps; and coordination with federal, state, and local agencies. Responsibilities include preparing the scoping letter and coordinating and preparing plans, specifications, and the engineer's estimate.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (City and State) On-Call Statewide Transportation Enhancement Services, Statewide, AZ, Arizona Department of Transportation	(2) YEAR COMPLETED	
		Professional Services Ongoing	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for all project work resulting from the statewide transportation alternatives program. The transportation alternatives projects include on- and off-road pedestrian and bicycle facilities; infrastructure projects for improving non-driver access to public transportation and enhanced mobility, community improvement activities, and environmental mitigation; recreational trail program projects; projects for safe routes to school; and projects for planning, designing, or constructing boulevards and other roadways largely in the right-of-way of former interstate system routes or other divided highways.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (City and State) I-10 Perryville Traffic Interchange Design-Build Project, Maricopa County, AZ, Arizona Department of Transportation	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager and Design Engineer responsible for this project, which involved new full-access ramps; retaining walls; a new, 238-foot-long, two-span bridge; drainage design; stormwater management; maintenance and protection of traffic; traffic signals; and interstate lighting. Responsible for the roadway design and interface/coordination between the numerous technical disciplines for the project. Maintenance of traffic (MOT) on I-10 during construction of the project was critical and, by working with the design-build contractor, the new ramps to accommodate the interchange with Perryville Road were used to keep traffic flowing on mainline I-10 during construction of the bridge over Perryville Road.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (City and State) Greenway Parkway Bridge at Cave Creek Wash, Phoenix, AZ, City of Phoenix	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Roadway and Traffic Engineer for the replacement of the bridge with box culverts and the replacement of the arterial roadway over the bridge. Responsibilities include the design of the roadway profile, traffic control, and maintenance of traffic on Greenway Parkway.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION (City and State) I-10, Prince Road to Ruthrauff Road, Tucson, AZ, Arizona Department of Transportation	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Deputy Design Manager for the development of plans, specifications, and estimates to reconstruct I-10 between Prince and Ruthrauff Roads. The design included 2.5 miles of roadway reconstruction and widening of I-10 to six lanes, 1.0 mile of reconstruction on Prince Road, new multi-cell box culverts, storm drain system reconstruction, lighting, freeway management systems, traffic signals, landscaping and aesthetics, and extensive utility relocations.	<input 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 Diana Kelly, PE		b. ROLE IN THIS CONTRACT Transportation Engineering		c. YEARS EXPERIENCE	
		1. TOTAL 18	2. WITH CURRENT FIRM 3		
d. LOCATION (City and State) Gannett Fleming, Inc., Phoenix, AZ					
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S., Civil Engineering			f. PROFESSIONAL TRAINING - REGISTRATIONS PE: Arizona – No. 46727 (2007)		
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Professional Affiliations: American Society of Civil Engineers; American Society of Highway Engineers					

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	I-10 and Perryville Road Traffic Interchange Design-Build Project, Maricopa County, AZ, Arizona Department of Transportation	2014	2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Project Engineer responsible for the roadway design and interface / coordination between the technical disciplines for this high-profile \$20 million design-build project, which involves new full-access ramps, retaining walls, a new two-span, 238-foot-long bridge, drainage design, stormwater management, protection and maintenance of traffic (MOT), traffic signals, and interstate lighting. Coordinated with design-builder weekly throughout design and construction phases. MOT on the project was critical, and the new ramps to accommodate the interchange with Perryville Road were used to keep traffic flowing on mainline I-10 during construction of the bridge over Perryville Road by working with the design-build contractor.		
2.	I-10 and Ina Road Traffic Interchange, Mileposts 247.8 to 249.5, Pima County, AZ, Arizona Department of Transportation	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Project Engineer responsible for the utility and railroad coordination and preparation of utility plans and specifications for the reconstruction of a 1.7-mile section of I-10. The Construction Manager At-Risk project consisted of the widening and realignment of the highway; redesign of the traffic interchange and elimination of the Union Pacific Railroad (UPRR) at-grade crossing at Ina Road; drainage, lighting, utility, and intelligent transportation system (ITS) improvements; and four new bridges.		
3.	S.R. 0095 Game Fencing, Mohave County, AZ, Arizona Department of Transportation	2013	2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer for the design and placement of game fencing along both sides of the 12-mile roadway segment. The scope of work included the development of a scoping letter; the development of construction documents for a game fence, goat bars, and elk jumps; and coordination with federal, state, and local agencies. Responsibilities included preparing the scoping letter and coordinating and preparing plans, specifications, and the engineer's estimate.		
4.	Greenway Parkway Bridge at Cave Creek Wash, Phoenix, AZ, City of Phoenix	2014	2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Design Engineer for the preparation of design and construction documents for replacing the current bridge over Cave Creek Wash with a concrete box culvert. Responsibilities include roadway design, grading, construction phasing and fencing plans. The project was constructed using the Construction Manager At-Risk method.		
5.	44th Street Employee Parking Lot, Phoenix, AZ, City of Phoenix Aviation Department	2012	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Design Engineer for the design of an 823-space employee parking. The project included geotechnical and civil engineering, and Americans with Disabilities Act (ADA) compliance. Work also included the preparation of demolition, grading, paving, pavement marking and signing, and fencing plans for the parking lot; plans for the mill and overlay of 42nd Street; and project specifications. Specific responsibilities included reviewing plans and preparing a design memorandum.		



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

a. NAME Mark Pilwallis, PE	b. ROLE IN THIS CONTRACT Structural Engineering	c. YEARS EXPERIENCE	
		1. TOTAL 25	2. WITH CURRENT FIRM 10
d. LOCATION (City and State) Gannett Fleming, Inc., Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S., Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS PE: Arizona (Civil) – No. 28174 (1994) PE: Arizona (Structural) – No. 35227 (2000)	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Professional Affiliations: American Society of Civil Engineers; American Consulting Engineers Council; Council of American Structural Engineers			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) Design-Build Services for Central Mesa Light Rail Extension, Mesa, AZ, Valley Metro	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Design Project Manager responsible for pursuit of \$110 million light rail extension through downtown Mesa, Arizona. Project included compiling preliminary design documents and alternate technical concepts to support the contractor's bid price. The project included 3 miles of at-grade rail guideway within an existing street system, four stations, and full transit systems through the extension.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (City and State) PHX Sky Train™ Stage 1A Final Design, Phoenix Sky Harbor International Airport, Phoenix, AZ, City of Phoenix Aviation Department	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager responsible for the final design of the PHX Sky Train, a predominantly elevated guideway system with seven stations. The Stage 1A design includes 3,000 feet of guideway, with approximately half the guideway elevated and the other half depressed below two existing airfield taxiways. The design also includes a new station at Terminal 3, interior upgrades to Terminal 3, and the relocation of an existing airfield service road.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (City and State) PHX Sky Train™ Preliminary Design, Phoenix Sky Harbor International Airport, Phoenix, AZ, City of Phoenix Aviation Department	(2) YEAR COMPLETED	
		Professional Services 2008	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager responsible for the preliminary design development of the 5-mile-long PHX Sky Train system through existing airport facilities. The project involved a predominantly elevated guideway system with seven stations. The system will connect three terminals, two parking areas, a rental car center, and a ground transportation center with a light rail transit interface.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (City and State) On-Call Bridge Inspections, Statewide, AZ, Arizona Department of Transportation	(2) YEAR COMPLETED	
		Professional Services 2008	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager responsible for providing bridge inspection services. Services included in-depth routine and special inspections in accordance with NBI standards. Our firm conducted three routine inspection task orders consisting of a total of 330 bridges. The inspections involved NBI coding, Pontis element condition surveys, and the preparation of biennial inspection reports using ADOT's proprietary Arizona Bridge Inventory Storage System. Our firm's services included checking for evidence of scour and erosion in channels, examining bank protection, and suggesting mitigation measures where needed.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION (City and State) 19th Avenue Bridge over the Grand Canal, Phoenix, AZ, City of Phoenix Street Transportation Department	(2) YEAR COMPLETED	
		Professional Services 2008	Construction (if applicable) 2009
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager responsible for the design of replacement options for a 60-foot-long, three-span slab bridge over the Grand Canal. Analysis using AASHTO codes indicated that the three-span continuous concrete slab bridge required a fast-paced approach to upgrading or strengthening for flexure to meet Arizona legal load capacities. Advanced fiber-reinforced polymer (FRP) composite materials were used as a much lower cost solution than total replacement.	<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 Byron Dixon, PE	b. ROLE IN THIS CONTRACT Civil Engineering	c. YEARS EXPERIENCE	
		1. TOTAL 26	2. WITH CURRENT FIRM 6
d. LOCATION <i>(City and State)</i> Gannett Fleming, Inc., Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S., Civil Engineering M.S., Engineering and Environmental Management		f. PROFESSIONAL TRAINING - REGISTRATIONS PE: Arizona – No. 36372 (2001)	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Professional Affiliations: American Public Works Association; Society of American Military Engineers			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Maricopa Multi-Generational Center and Aquatics Facility, Maricopa, AZ, City of Maricopa	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Senior Project Manager for civil engineering site design. Work included grading, paving, signing, and site utility design. The design included significant coordination and collaboration with the City of Maricopa Public Works, Economic Development, and Parks and Recreation staff, a program manager, a designer of the off-site improvements, a Construction Manager at Risk contractor, the architect and landscape architect, and the surrounding park design/build team. The civil design included a grading and drainage plan that allowed for significant site fill to economically use the lake excavation from the adjacent park and to bring the site outside of the current high water elevation of the Vekol Wash floodplain.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Railroad Crossing Safety Improvements, Tempe, AZ, City of Tempe	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager responsible for conducting studies to identify potential railroad crossings that would qualify for funding and implementation of roadway and right-of-way modifications designed to install necessary gates and signals to allow for train passage without blowing the train horns. The work included survey, geotechnical analysis, development of ROW and easement legal descriptions, utility coordination, structural analysis of utility relocation options, grading and drainage design, street and median design, sidewalk reconfiguration, and Americans with Disabilities Act (ADA) design.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Greenway Parkway Bridge at Cave Creek Wash, Phoenix, AZ, City of Phoenix	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager responsible for providing design and construction documents for replacing the current bridge over Cave Creek Wash with a concrete box culvert. The project included right-of-way mapping, structural engineering for the culverts and retaining walls, a geotechnical investigation and report, drainage engineering, roadway design related to the replacement of the arterial road section above the bridge, lighting, utility coordination, storm drain design, and cost estimating.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> LRT-Impacted Properties Along the Northwest Extension, Phoenix, AZ, City of Phoenix	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager responsible for determining the impacts of increasing existing rights-of-way and temporary construction easements necessary for the construction of the proposed Northwest Extension of the light rail transit line. Services included data collection, site visits, on-site utility coordination, meetings, and project assessments.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION <i>(City and State)</i> 4th Street North Corridor Study, Flagstaff, AZ, City of Flagstaff	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager responsible for providing drainage, right-of-way, utility, and infrastructure assessments and developing concepts to create an achievable vision for the area that meets the public's needs, improves multimodal transportation, and enhances the safety and identity of the area.	<input checked="" type="checkbox"/> Check if project performed with current firm	



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

a. NAME Dean Durkee, PhD, PE	b. ROLE IN THIS CONTRACT Dam Engineering	c. YEARS EXPERIENCE	
		1. TOTAL 24	2. WITH CURRENT FIRM 12
d. LOCATION (City and State) Gannett Fleming, Inc., Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S., Civil Engineering M.S. and PhD, Geotechnical Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS PE: Arizona – No. 35654 (2000)	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Tempe Town Lake Dam Replacement, Tempe, AZ, City of Tempe	2015	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal/Project Manager for the evaluation and design for the replacement of the Tempe Town Lake downstream dam. Initial phase involved developing alternatives for replacement of the downstream dam; conducting an alternatives workshop; performing H&H analyses; and preparing preliminary design plans, a basis of design report, and documentation for presentation of the alternatives process. The design phase includes performing surveying; geotechnical investigation; H&H and structural analyses; final construction plans and project specs; and permitting.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	Saddleback Dam Mitigation, Maricopa County, AZ, Flood Control District of Maricopa County	2014	2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Principal/Manager for the rehabilitation of a compacted earthfill dam. The project includes the development of alternatives for the rehabilitation of an approximately 5.1-mile-long dam that has experienced the formation of numerous erosion holes and longitudinal cracking along the dam crest. Responsibilities include the technical direction and management of geotechnical investigations; evaluation of filter, foundation, and embankment deficiencies; detailed design of the rehabilitation improvements; preparation of plans and project specifications; and project coordination.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	PHX Sky Train™ Final Design, Phoenix Sky Harbor International Airport, Phoenix, AZ, City of Phoenix Aviation Department	2013	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Geotechnical Task Manager responsible for overseeing the final design-phase geotechnical investigation and analyses and making recommendations for the construction of a proposed automated train system. The investigation included excavating test pits, completing sonic drilling and rock coring operations, performing a seismic refraction survey, and conducting laboratory tests for the design of at-grade and aerial guideways connecting the terminals and ancillary airport facilities.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	White Tanks Flood-Retarding Structure (FRS) No. 4, Preliminary and Final Design, Maricopa County, AZ, Flood Control District of Maricopa County	2012	2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for the preliminary and final design to rehabilitate White Tanks FRS No. 4, which included the development of an upstream rehabilitation section; the modification of the emergency spillways; the design of three new principal spillways, two gated and one Natural Resources Conservation Service riser; the design of downstream radial flow control structures for the principal spillways; and the development of the inflow design flood based on a 100-year, 10-day event.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	Wickenburg Downtown Flooding Hazard Mitigation, Wickenburg, AZ, Flood Control District of Maricopa County	2006	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Snr. Geotechnical Engineer responsible for the stability analyses of slopes and structures required for the stabilization of Sols Wash to prevent erosion and flooding during high-water events. The proposed structures consisted of gabion-faced, mechanically stabilized earth (MSE) levees; gabion retaining walls; and reinforced-concrete floodwalls.	<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 John Niedzielski, PE	b. ROLE IN THIS CONTRACT Geotechnical Engineering	c. YEARS EXPERIENCE	
		1. TOTAL 29	2. WITH CURRENT FIRM 6
d. LOCATION (City and State) Gannett Fleming, Inc., Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S., Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS PE: Arizona – No. 39941 (2003)	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Professional Affiliations: American Society of Civil Engineers			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Transit Maintenance and Administration Facility Design-Build Services, Fort Defiance, AZ, Navajo Transit System	2011	2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Geotechnical Engineer responsible for drilling soil borings, performing laboratory testing on select samples, preparing preliminary design recommendations, and preparing a geotechnical data memorandum for a new transit maintenance facility. The memorandum included site soil and groundwater conditions, a description of the field investigation and laboratory tests, site seismicity and faults, and soil corrosion potential.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	Greenway Parkway Bridge at Cave Creek Wash, Phoenix, AZ, City of Phoenix	2014	2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Geotechnical Project Manager for the replacement of the bridge with box culverts and the replacement of the arterial roadway over the bridge. Responsibilities included soil borings, laboratory testing, slope stability analyses, and a geotechnical report that provided recommendations for bridge foundations, roadway subgrade preparation, pavement design, lateral earth pressures for retaining walls, and use of lightweight fill net to the culvert ends.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	Church Road and Eco-Museum Road, Pinal County, AZ, Ak-Chin Indian Community	2011	2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Geotechnical Engineer responsible for the geotechnical investigation and report in support of the design of approximately one-half mile of roadway and drainage improvements in the traditional village area of the ACIC. The geotechnical study provided recommendations for grading, compaction, material specifications, and pavement sections. The geotechnical ground disturbance operations received clearance from the Ak-Chin Cultural Resources Department.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	On-Call Services for Subsurface Investigations for the State Highway System, Statewide, AZ, Arizona Department of Transportation	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager responsible for performing this on-call services contract, which involves performing geotechnical investigations and testing to characterize soil and rock conditions for design; providing geotechnical recommendations for bridge and retaining wall foundations, wall design, slopes, and pavements; and developing foundation reports, geotechnical reports, and pavement design summary reports for various projects statewide.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	PHX Sky Train™, Phoenix Sky Harbor International Airport, Phoenix, AZ, City of Phoenix Aviation Department	2013	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Geotechnical Engineer responsible for providing geotechnical recommendations for the foundations of an elevated guideway for the new PHX Sky Train and the related station and maintenance facilities, as well as for providing subgrade recommendations for at-grade track sections. The 5-mile-long system will run through existing airport facilities and will connect three terminals, two parking areas, a rental car center, and a ground transportation center with a light rail transit interface. The project is being developed in two stages.	<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 A. Frances Ackerman, PG, PE	b. ROLE IN THIS CONTRACT Geotechnical Engineering	c. YEARS EXPERIENCE	
		1. TOTAL 21	2. WITH CURRENT FIRM 6
d. LOCATION (City and State) Gannett Fleming, Inc., Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S., Geology and Environmental Health M.S.E., Civil (Geotechnical) Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS PG: Arizona – No. 40473 (2004) PE: Arizona – No. 52270 (2011)	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Professional Affiliations: American Society of Civil Engineers; Association of Environmental and Engineering Geologists			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Tempe Town Lake Dam Replacement, Tempe, AZ, City of Tempe	2015	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Task Manager/Senior Geotechnical Engineer for the evaluation and design for the replacement of the Tempe Town Lake downstream dam. The initial phase involved developing alternatives for the replacement of the downstream dam; conducting an alternatives workshop with project stakeholders; performing hydrologic and hydraulic analyses associated with the design inflow conditions; and preparing preliminary design plans, a basis of design report, and documentation for presentation of the alternatives process and recommended alternative.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	U.S. Route 70, Gila River Bridge Replacement Design Concept Report and Final Design, Bylas, AZ, Arizona Department of Transportation	2013	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Geotechnical Engineer for the second phase of a bridge project, which includes the final design for the replacement of the bridge. Responsible for a geotechnical investigation performed for the proposed bridge and roadway approaches, which includes soil borings, pavement cores, hand sampling for scour analysis, geotechnical laboratory testing, foundation data sheets, and the preparation of a geotechnical report and a foundation report.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	U.S. Route 70, Gila River Bridge Demonstration Drilled Shaft and Static Load Test, Bylas, AZ, Arizona Department of Transportation	2010	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Geotechnical Engineer responsible for the installation and static load testing of a demonstration drilled shaft to support the final design of a bridge replacement. Responsibilities included overseeing the geotechnical drilling and laboratory testing performed to delineate subsurface conditions; coordinating the installation of a 7-foot-diameter, reinforced-concrete test shaft; interpreting the results of test shaft integrity testing; designing the bidirectional static load test; interpreting the load test results; updating the bridge foundation recommendations; and preparing a demonstration drilled shaft and static load test report.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	Saddleback Dam Mitigation, Maricopa County, AZ, Flood Control District of Maricopa County	2014	2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for the rehabilitation of an embankment dam. Responsibilities included preparing a comprehensive geotechnical assessment report, overseeing the field investigation/laboratory testing, developing rehabilitation concepts, performing geotechnical engineering analyses to evaluate the rehabilitation concepts, participating in a Failure Modes and Effects Analysis and selection process, and preparing a geotechnical investigation report and a design concept report.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	Transit Village Preliminary Geotechnical Investigation, El Monte, CA, El Monte Community Redevelopment Agency	2010	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for the preliminary geotechnical evaluation. Responsibilities included overseeing the field investigation/laboratory testing, performing engineering analyses, conducting a preliminary seismic hazard assessment screening, recommendations for site development, and preparing the preliminary geotechnical investigation report.	<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 Stewart Vaghti, PE, CFM, LEED AP	b. ROLE IN THIS CONTRACT Civil Engineering	c. YEARS EXPERIENCE	
		1. TOTAL 16	2. WITH CURRENT FIRM 14
d. LOCATION <i>(City and State)</i> Gannett Fleming, Inc., Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S., Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS PE: Arizona – No. 41221 ASFPM Certified Floodplain Manager – No. US-08-03376 USGBC – LEED 2.2 Accredited Professional	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Chrysalis Phoenix Shelter, Phoenix, AZ, Chrysalis	2010	2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager responsible for the preparation of the grading and drainage plans, the paving plans, and the fire-line plan for the development of the Chrysalis Family Outreach Center. The preparation of the grading and drainage plans included performing a drainage analysis, as well as preparing the preliminary grading and drainage plans and support documents for the preparation of a cross-drainage agreement between the two neighboring parcels. Topographic survey check measurements and the preparation of legal descriptions and exhibits for right-of-way dedications were also performed.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	Main Street Plaza, Scottsdale, AZ, Arts District Group, LLC / Arts District Development II, LLC	2005	2006
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer responsible for preparing a phased water master plan and a stormwater pollution prevention plan (SWPPP). Responsibilities included determining the existing municipal water distribution infrastructure, coordinating efforts with City of Scottsdale personnel, performing water demand calculations, preparing a water distribution model, identifying site-specific erosion and sediment control measures, stormwater management practices, and maintenance and inspection procedures to satisfy Arizona Pollutant Discharge Elimination System permit requirements.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	Water System Improvements, Bowie, AZ, Bowie Water Improvement District	2004	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer for the design of improvements to replace the existing BWID community water system, rehabilitate or replace an existing 150,000-gallon water storage tank, and install sanitary well seals in the two existing community wells. The evaluation of the water storage tank included a study to detect the presence of lead paint on the interior and exterior of the tank and prepare the appropriate specifications to address it.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	Tombstone Wastewater Treatment Facility Improvements, Tombstone, AZ, City of Tombstone	2003	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer responsible for assisting with construction-phase design efforts, reviewing shop drawings, performing construction observations, and coordinating project efforts with the contractor and the U.S. Department of Agriculture's Rural Utilities Service for an \$850,000 wastewater treatment plant improvement project, which involved improving solids treatment and handling, chlorination and dechlorination facilities, and operations metering.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	Tempe Town Lake Dam Post-Design Construction Management Services, Tempe, AZ, City of Tempe	2015	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager for the post-design and construction management services of the Tempe Town Lake downstream dam replacement project. Services include preconstruction-phase services, construction-phase services, post-design services, equipment start-up and testing services, and post construction-phase services.	<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 Benjamin Porritt, PE, LEED GA	b. ROLE IN THIS CONTRACT Structural Engineering	c. YEARS EXPERIENCE	
		1. TOTAL 32	2. WITH CURRENT FIRM 13
d. LOCATION <i>(City and State)</i> Gannett Fleming, Inc., Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S., Civil Engineering M.S., Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS PE: Arizona (Civil) – No. 35666 (2000) PE: Arizona (Structural) – No. 36712 (2001) USGBC LEED Green Associate – No. 10692311 (2011)	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Professional Affiliations: Structural Engineers Association of Arizona; American Society of Civil Engineers; American Institute of Steel Construction; Structural Engineering Institute			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Chaparral Water Treatment Plant, Scottsdale, AZ, City of Scottsdale	2012	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Senior Project Manager for multiple structural studies and designs to support process renovations.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	Scottsdale Water Campus Advanced Water Treatment Facility Expansion, Scottsdale, AZ, City of Scottsdale	2011	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Senior Project Manager for the structural design of building additions, renovations, and industrial structures.	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	Phoenix Convention Center, Phase 2, Phoenix, AZ, City of Phoenix	2009	2009
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Senior Project Engineer for the substructure for a 1.4 million-square-foot building, including building foundations, below-grade parking, and convention gallery levels.	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	Union Hills Water Treatment Plant, Phoenix, AZ, City of Phoenix Water Services Department	2011	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Senior Project Manager for buildings and plant structures for plant renovation projects.	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	Lake Pleasant Water Treatment Plant Design-Build-Operate Project, Phoenix, AZ, City of Phoenix Water Services Department	2007	2009
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Senior Project Engineer for flocculation, ozone contact, filters, granular activated carbon contact, and ultraviolet disinfection for an 80 mgd water treatment plant.	<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> Horseshoe Falls Pump Station, Scottsdale, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2008	CONSTRUCTION <i>(If applicable)</i> 2008

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER City of Scottsdale	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT Design Fee - \$73,694 Construction Administration Fee - \$27,400	e. TOTAL COST OF PROJECT \$6,000,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(include scope, size, and length of project)*

The NSB Group of Gannett Fleming was responsible for various aspects of the structural design of this pump station, including: design of waterlines along Indian School Road; four vertical turbine pumps; pump building, chlorine room and electrical room; back-up generator; HVAC and plumbing; and noise attenuation. This project presented site specific challenges in the structural design of the sloped masonry walls of the building and the planter / fence. This project has received several industry awards.

For the improvements of the pump station at Horseshoe Falls aesthetics and appearance were as important as hydraulics. Given the small site and the requirement to hide and protect the pump stations equipment, the final solution was a masonry building with masonry site walls surrounding the pump station equipment. The structural design of the building was challenging because of the sloped exterior walls. The site walls consisted of a pair of outwardly sloping masonry walls with a planter on top. Sky lights were provided over the pump cans for easy removal for maintenance. A public restroom was also incorporated in the project.





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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> Maricopa Multi-Generational Center and Aquatics Facility, Maricopa, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If applicable)</i> 2014

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER City of Maricopa	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$187,717 (Fee)	e. TOTAL COST OF PROJECT \$11,000,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

As a subconsultant, Gannett Fleming provided the civil engineering site design for the 15-acre site of the City of Maricopa Multi-Generational Center and Aquatics Facility. Gannett Fleming's work included grading, paving, signing, and site utility design. The Multi-Generational Center is a part of the overall development of a 148-acre parcel to include a regional park and sports facility. The design included significant coordination and collaboration with the City of Maricopa Public Works, Economic Development, and Parks and Recreation staff, a consultant program manager, a consultant designer of the off-site improvements, a Construction Manager at Risk (CMAR) contractor for the Center, the center architect and landscape architect, and the surrounding park design/build team. The civil design included a grading and drainage plan that allowed for significant site fill to economically use the lake excavation from the adjacent park and to bring the site outside of the current high water elevation of the Vekol Wash floodplain. While balancing agency requirements with aesthetic and functional design issues, the team successfully brought the project into the final stages of design and into construction. Gannett Fleming also provided construction phase services related to the civil engineering design elements.

In a related project, Gannett Fleming is providing the Structural Design and Construction Administration services as a subconsultant for Vekol Park for the City of Maricopa, Parks and Recreation Department. This new park, which is located next to the City's new multi-generational center, includes baseball/softball diamonds, soccer fields, volleyball courts, and a fishing lake. New structures include a new lake pump station, security fences, retaining walls at the lake, and baseball/softball backstops and fences.





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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> Maricopa County Central Courts Building Elevator Modernization, Maricopa County, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Maricopa County Facilities Management	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$210,000	e. TOTAL COST OF PROJECT \$2,870,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Vertical Transportation Excellence (VTX), a division of Gannett Fleming, Inc., provided professional services related to site survey design and construction documents for the modernization of six (6) electric traction passenger elevators at the Central Courts Building in downtown Phoenix, Arizona. VTX provided bid procurement assistance services to the owner during the bid process. VTX is acting as the Construction Administrator for the project responsible for providing construction administration services that includes responding to RFIs, review of submittals, performing progress inspections, attending progress meetings, and performing commissioning inspections and testing of the elevators.

A list of services provided includes:

- Modernization Assessment
- Field Study
- Full Design
 - Full CSI Specification Book – Divisions 1 through 28
 - Full Engineering Drawings
- Coordination with subconsultants and their design
 - Architects
 - Electrical and Fire
 - Mechanical
- Plan Review
- Bid Procurement Assistance Services
- Attended Pre-Bid Meeting and Walkthrough
 - Responded to RFIs
 - Issued Addenda
- Construction Administration Services
 - Responding to RFIs
 - Review of Shop Drawing Submittals
 - Performing Progress Inspections
 - Attending Progress Meetings
 - Performing Commissioning Inspections and Testing
 - Project Closeout Documentation





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

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> Bridge Program Asset Management Services Cycle "A" for Year 2013-2014		b. YEAR COMPLETED	
		PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If applicable)</i> N/A
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER City of Phoenix Street Transportation Department	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$891,301	e. TOTAL COST OF PROJECT N/A	

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

Gannett Fleming, as the prime firm, is performing an inventory and inspection of one hundred sixty-six (166) bridges scattered throughout the City of Phoenix. Ninety-four (94) structures are "NBI" bridges scheduled for biannual inspection and thirty-two (32) are culverts, subject to inspection every four (4) years to be in compliance with the Federal Highway Administration National Bridge Inspection Standards (NBI). The remaining forty (40) are pedestrian, restricted access or roadway bridges, which are not part of the City's National Bridge Inspection Program Inventory. Each bridge will be inspected by an experienced bridge engineer. Bridge inspections are hands-on types of inspection with all critical elements being closely examined. For each bridge inspected, Gannett Fleming will furnish a report which typically includes the complete City of Phoenix Structure Inventory and Appraisal Sheet, Structure Inspection Form, Structure Repair Report, Scour Data Sheet (when appropriate), and Clearance Report for structures over roadways, channel profile, loading rating report, and element level data. The reports also include copies of all field notes.

Gannett Fleming has held consecutive contracts with the City of Phoenix for Bridge Inspection as a prime or a subconsultant for nearly 10 years. This experience includes:

Bridge Inspection Program Cycle B, Year 2011-2013 Inspection Services

Gannett Fleming provided project management and bridge inspection services which involved identifying BMS elements, performing BMS-level and National Bridge Inspection Standards field inspections, and compiling inspection reports for more than 400 bridges and multiple overload permit vehicles.

Bridge Inspection Program Cycle A, Year 2009-2011 Inspection Services

As a subconsultant, Gannett Fleming provided project management, bridge inspections and prepared reports for the City's inspection program. Services involved identifying BMS elements, performing BMS-level and National Bridge Inspection Standards field inspections, and compiling inspection reports for 54 bridges. We also performed the load rating and special inspection for an overload, 452,000-pound vehicle crossing for two of the City's structures to verify that the structures were not put in distress by the overload vehicle. As part of this contract cycle, Gannett Fleming led the inspection of the Valley's newly constructed Metro Light Rail Bridges, including the fracture critical Tempe Town Bridge, which had to be accessed from a pontoon boat aerial lift.

Bridge Inspection Program Cycle B, Year 2008-2009 Inspection Services

Gannett Fleming performed project management and in-depth inspection services which involved identifying Pontis-level and National Bridge Inspection Standards for field inspections, and compiling inspection reports for 180 bridges. The contract also included the routine inspection of 13 major bridges over the Salt River.





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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> On-Call Structural Engineering, Scottsdale, AZ		b. YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER City of Scottsdale	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$500,000	e. TOTAL COST OF PROJECT N/A	

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

The City of Scottsdale awarded an on-call contract to Gannett Fleming to perform structural engineering services. The following task orders have been completed under the contract.

Work Order 1a

Gannett Fleming performed a structural and geotechnical engineering investigation of building settlement and related distress at two wastewater pump station building sites, including providing engineering reports and client meetings. The investigation aspects included cause analysis, development of repair recommendations, and development of settlement remediation and monitoring alternatives. Fee: \$37,200



Work Order 1b

Gannett Fleming performed a structural and mechanical engineering investigation, including engineering reports and client meetings, of the following:

- A distressed pumped discharge piping system supports and restraints; and
- Deteriorated and surcharging gravity inlet channels at a wastewater pump station building site.

Investigation aspects included cause analysis, development of repair recommendations, and exploration of solids reduction system alternatives. Fee: \$20,850



Work Order 1c

Gannett Fleming performed a structural and mechanical engineering investigation and replacement design for distressed pumped inlet piping supports and restraints at a wastewater pump station building site, including engineering reports and client meetings. Project aspects include cause analysis, development of support replacement drawings, construction administration, and inspections. Fee: \$29,750 (with amendments)

Work Order 1d

Gannett Fleming performed a structural engineering general condition survey of a canal water pump station building, including geotechnical engineering of building settlement, engineering reports, and client meetings. Investigation aspects include cause analysis, development of repair and maintenance recommendations, identification of critical items, and development of settlement remediation and monitoring alternatives. Fee: \$14,900

Work Order 2

Gannett Fleming performed structural engineering design for modification of four valve vaults at two irrigation water pump stations, including construction administration and inspection services. Fee: \$11,367

Work Order 3

Gannett Fleming performed a structural pre-sale assessment of a 15,000 SF office building, including assessment report with repair and maintenance recommendations and identification of critical items. Fee: \$2,900



ATTACHMENT I – General Qualifications

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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.)

References for Gannett Fleming's work are presented below. We encourage ADOA to contact these professionals as appropriate to confirm our firm's ability to deliver excellence as promised!

Juan Giron
City of Phoenix
City of Phoenix Bridge Inspection
602.256.4107

Allan Smolko
City of Phoenix
EAS On-Call
602.534.3749

Phillip Brown
City of Tempe
City of Tempe On-Call
480.350.8476

Sherrie Logg, SRPMIC
On-Call (through CR Engineers)
480.362.7807

Kurt Clink
Truesdell Corp
602.437.1711

The following information is provided to confirm Gannett Fleming's good standing with the State of Arizona, as well as our financial and insurance stability as a provider of engineering and architectural 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:	70.6%
b.	Percentage of Total Work Attributable to Non-Government Work:	27.2%

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

Signature: John A Derr

Date: December 17, 2014

Name: John Derr, PE

Title: Senior Vice President



Introduction to Gannett Fleming:

Gannett Fleming was established in 1915, and remains among the oldest, largest, privately-held Architectural and Engineering firms in the United States. The firm is a full-service, multi-disciplinary engineering and architectural firm with nearly 2,000 employees in over 60 offices around the country. We are listed as #48 among the Top 500 Design Firms in the Country by Engineering News Record. We have maintained an office in Phoenix since 1946, operating as Ellis-Murphy, Inc. until 1986 when Gannett Fleming acquired Ellis-Murphy. In 2011 we made a key local acquisition in Nabar Stanley Brown, structural engineers. Our local Phoenix office includes a staff of 62 professional engineers, CAD designers, construction administrators, inspectors and administrative personnel.

Our firm is insured by companies lawfully authorized to transact insurance business in the State of Arizona. All of these companies are rated at least A in the current A.M. Best Company rating.

Our firm is registered with the Arizona Technical Board of Registration to offer professional engineering, architectural and geological services within the state of Arizona. Our registration number is 10267.

The Team

We have assembled a very strong Team with the expertise and specialty experience to provide the ADOA with a one-stop organization from which to draw engineering and architectural resources. Our project manager, Bob Stanley, PE, SE, will lead our team consisting of knowledgeable engineers and technicians who are familiar with a variety of state agencies' policies, procedures and personnel, including Maricopa County Facilities Department, Arizona Department of Administration Services (ADOA), the Arizona State Land Department (ASLD), the Arizona Department of Transportation (ADOT), as well as the US Army Corps of Engineers (USCOE).

Phoenix serves as our West Region headquarters; we are located at 4722 N. 24th Street in Phoenix, a 15-minute drive to state offices downtown. All work associated with this contract will be performed from our Phoenix office. Staffed with 62 professionals, 31 of whom are registered Professional Engineers and four LEED APs, our core competencies are structural (facilities) engineering under the direction of Robert Stanley, PE, SE and Sateesh Nabar, PhD, PE; bridges under the direction of Mark Pilwallis, PE; civil

engineering under the direction of Nasir Raza, PE, CFM; transportation engineering under the direction of Karen Hobbs, PE; and dams and geotechnical engineering under the direction of Dean Durkee, PhD, PE.

An organizational chart showing our team's structure is presented on the following page.

Relevant Project Experience

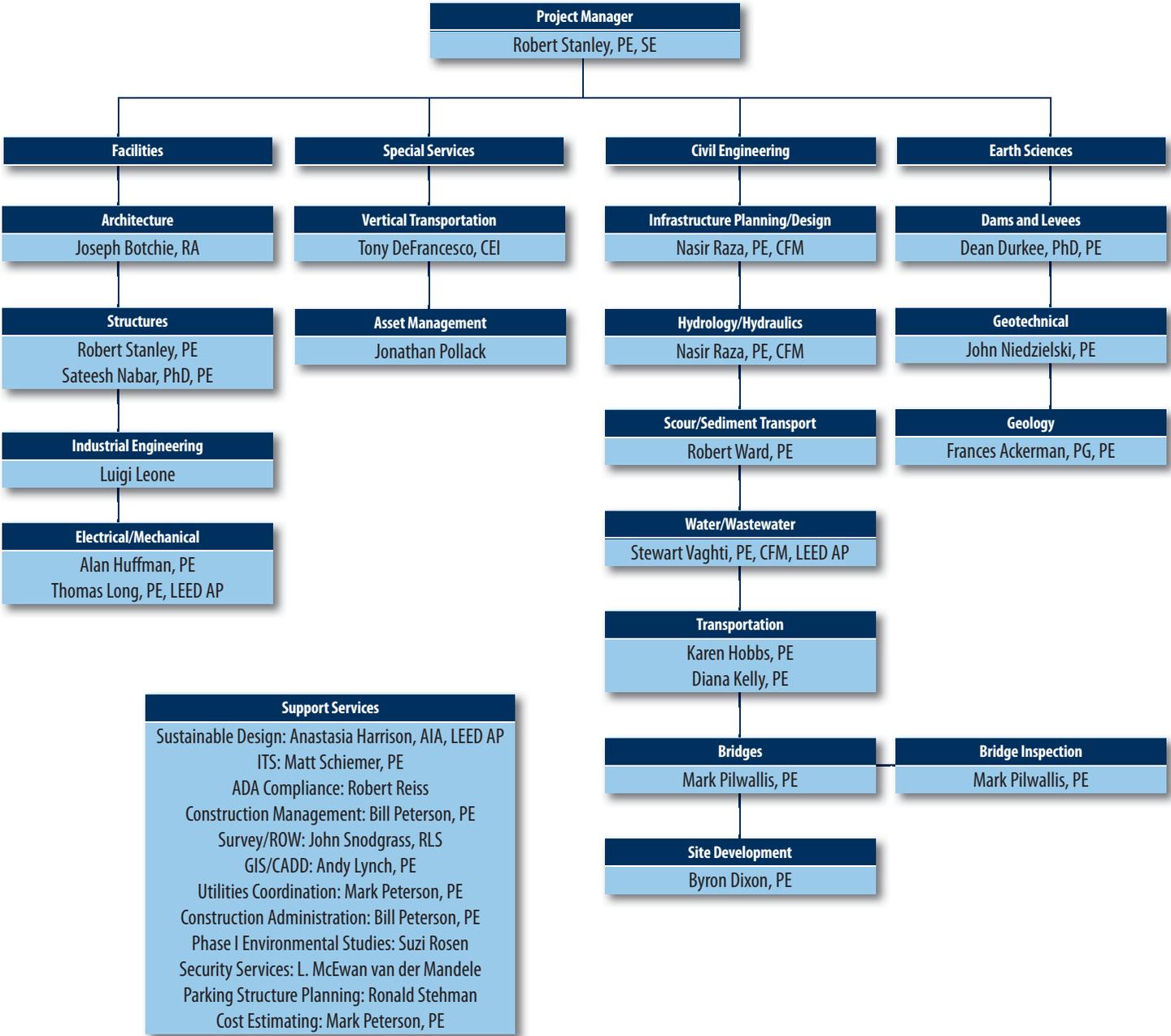
Our firm holds on-call contracts with nearly every city in Maricopa County and with ADOT, and many of these contracts are actively utilized in delivering our core services. Our local presence combined with our knowledge and experience will provide the ADOA with technical expertise, familiar working relationships, and dependable and reliable service for this contract. We have experience with all project delivery methods, including Design/Build, Construction Manager at Risk (CMAR), Design/Bid/Build and Job Order Contracting (JOC). In fact, at this time, the projects we are currently working on in our Phoenix office cover the full gamut of these delivery methods.

The Quality Approach

ISO 9001:2008 CERTIFIED Gannett Fleming considers Quality Assurance and Quality Control (QA/QC) an integral part of any project. Gannett Fleming is ISO 9001:2008 certified, a notable achievement as we are one of only 24 A/E firms nationally who carry and sustain this distinction. The requirements of our ISO 9001:2008 Certified Quality Management System are applied to every project we do for the benefit of our clients. This means that project documentation, reporting, scheduling, and inspection are methodically undertaken in order to meet stringent project closeout requirements and audits.

Notable Areas of Expertise

The following pages are presented to demonstrate the services of Gannett Fleming that are available to ADOA and to other agencies in Arizona that are provided directly from the 62 professionals located in our Phoenix, Arizona Office.



Gannett Fleming in the West

Gannett Fleming, Inc. is one of the world's largest and oldest still privately-held engineering and construction management firms. Quite an achievement in what has become a commodity-based industry.

If you have biked or strolled along the Gonzales Road Pedestrian Trail in Santa Fe, N.M., or glided along the Bicycle Boulevards in Albuquerque; enjoyed the urban revitalization of Lynwood, Calif.; ridden the LRT in Phoenix, Ariz., Dallas, Texas, or commuter rail in New Mexico and California; driven from Florida to California along Interstate 10; or reached new heights at Phoenix Sky Harbor International Airport, then you have been moved by the work of Gannett Fleming.

Notable work underway for our West Region clients includes:

- Redesign of the Rio Bravo Boulevard/Interstate 25 Interchange in Albuquerque, N.M.
- Redesign of the Tempe Town Lake Dam, a regional and national destination, recognized as a top attraction in Arizona
- PHX Sky Train™, a phased automated people mover connecting the LRT at 44th Street and Washington to the airport that will efficiently move passengers through Phoenix Sky Harbor International Airport
- FTA Program Management Oversight for the Region IX transit program, San Francisco, Calif.
- Largest installation of remediation systems under the State of California's Emergency Abandoned and Recalcitrant Sites (EAR) Fund
- Expansion of Airport Water Reclamation Facility in Chandler to treat the flows from Intel FAB plant when it comes online in April 2014.

Embracing sustainable design, we are making an impact in the renewable energy industry through our work at the Solana solar generating station in Gila Bend, Ariz. Also, we are a charter member of the Institute for Sustainable Infrastructure (ISI), a non-profit leadership organization dedicated to developing and administering a sustainability rating system for infrastructure.

Gannett Fleming is consistently ranked in the top 10 percent on *Engineering News-Record's* Top 500 Design Firms list.

West Region Services

- Aviation
- Bridges, noise, and retaining walls
- Construction management and administration
- Earth, water, and hydraulics (dams)
- Environmental planning
- Geotechnical engineering
- Multimodal facilities
- Multimodal transportation planning
- Highways
- Program management
- Roadways
- Site remediation
- Structural engineering (vertical)
- IT systems and technology
- Traffic engineering
- Transit design for light, heavy and freight rail, and BRT
- Vertical transportation
- Water-wastewater systems and structures

Building Information Modeling

Commuter Rail Maintenance Facility - Denver Regional Transportation District, Denver, Colo.



Gannett Fleming strives to amaze our clients through superior service, world-class solutions, and innovative ways of thinking. Our architectural and engineering disciplines are reaping the benefits of transitioning to 3-D information technology. Collaboration by our project teams, consultants, contractors, and owners has been instrumental in the transition. We combine the best talent and resources from across the firm to deliver design solutions that meet clients' needs and exceed their expectations.

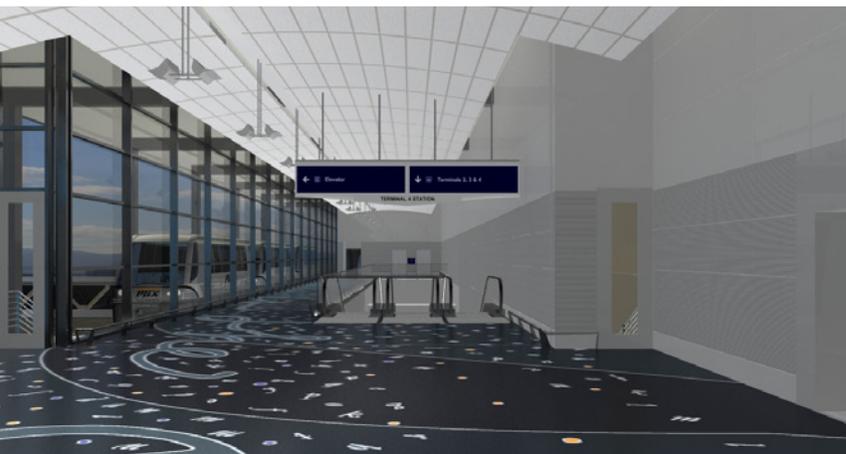
Gannett Fleming is committed to being a leader in building information modeling (BIM) technology and has created a group dedicated to training and supporting our staff, projects, clients, and consultants in the use of BIM software tools.

Collaboration

Effective collaboration throughout the design process is crucial to a successful project. 3-D BIM technologies allow our in-house architects and engineers to collaborate effectively in real time across different time zones and in different offices.

Energy Analysis and Sustainable Design

Analyzing a building's energy usage is a key component of our building design process. Utilizing a 3-D information model allows us to fine-tune our designs to take full advantage of energy saving factors. We can document sustainable design features in the same 3-D model for LEED® certification.



PHX Sky Train™ 44th Station, Phoenix, AZ



Tempe Town Lake Dam, Tempe, AZ

BIM Integration

Integrating BIM and geographic information systems (GIS) data into one package provides information on multiple buildings and the surrounding area quickly and efficiently.

Gannett Fleming can integrate BIM and GIS data with other databases, such as work order management systems. We deliver strategic solutions and applications that empower first responders, homeland security, and facility managers to make smarter, more informed decisions.

Construction Sequencing

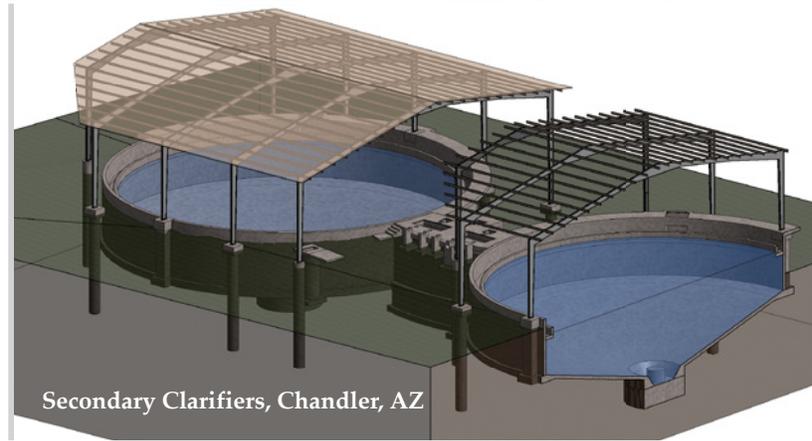
The ability to schedule the work necessary to build a building is an enormous task. By using BIM technologies and a BIM model, we can create visual animations of the construction sequence and evaluate constructability and construction schedule durations. The BIM model allows us to plan and maintain operations for existing facilities that need to remain functional during construction. Additionally, creating and modeling the movement of equipment and materials around the site and into the building ahead of time reduces the possibility of conflicts and delays for the construction team.

Software Tools

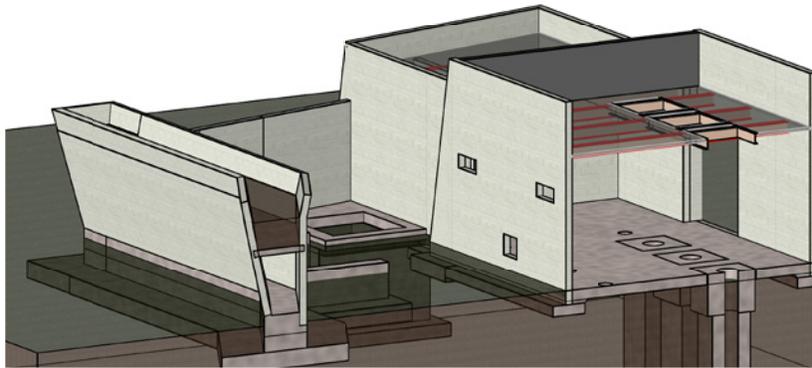
Gannett Fleming recognizes that different organizations have different software requirements. We utilize Autodesk® Revit® and Civil 3D® products as well as Bentley® BIM and GEOPAK® software tools, and we have executed many projects with both software solutions.



Navajo Transit System (NTS) Transit Maintenance and Administration Facility Design-Build, AZ



Secondary Clarifiers, Chandler, AZ



Horseshoe Falls Booster Pump Station #179, Scottsdale, AZ

800.233.1055

www.gannettfleming.com

ISO 9001:2008
CERTIFIED

Robert Stanley
602.553.8817 ext. 8275
rstanley@gfnet.com

Offices Worldwide

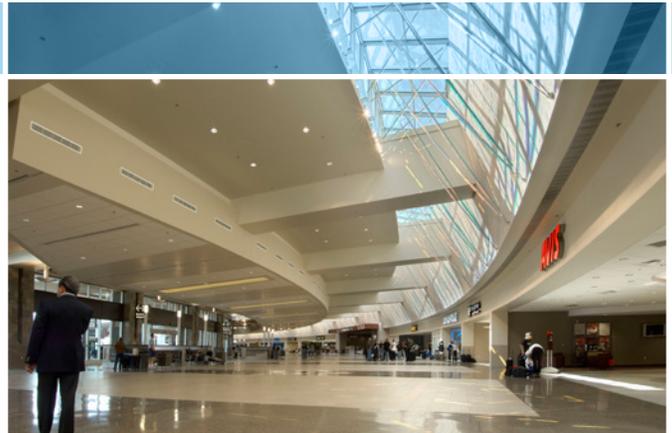


NSB Group of Gannett Fleming Structures

The NSB Group of Gannett Fleming has an excellent command of the structural engineering skills required to take a project from preliminary design to the end of the construction contract administration phase. Our expertise covers small tenant improvements in existing office, manufacturing, and retail facilities to new and expanded water-wastewater treatment plants. Most recently, we were instrumental in the \$95 million expansion of Phoenix Sky Harbor International Airport's Terminal 4.

Our NSB engineers also have extensive experience in the design and inspection of many different structural systems, including cast in place concrete, precast concrete, structural steel, masonry, and wood. These systems include specialized structural building materials such as high strength concrete, stainless steel, fiberglass, and aluminum.

The goal of NSB is to provide excellent engineering services on all phases of the project. Our highly experienced inspection team ensures that the design intent is carried out.



Rental Car Center - Phoenix Sky Harbor International Airport

Structural Design Services

- Technical reports including engineering investigation and concept studies
- Value Engineering
- Preparation of structural calculations, specifications, and contract drawings using AutoCAD® or MicroStation
- 3-D Building Information Modeling (BIM)
- Life cycle cost estimating
- GIS and Asset Management

Structural Construction Administration Services

- Review of test results, shop drawings, and concrete mix designs
- Processing of Requests For Information (RFI)
- Construction observation
- Special structural inspections



Lake Pleasant Water Treatment Plant

Civil/Site Development and Design

The development landscape has changed drastically in recent years with stricter regulatory requirements, tighter economic constraints, and an increased sense of environmental stewardship. The development approval process has become a complex series of hurdles. Navigating these hurdles in a cost-effective and environmentally conscious manner creates significant challenges. Gannett Fleming continues to meet these challenges through a myriad of options. We have dedicated project management committed to meeting our clients' requirements who provide innovative designs that address efficiency and economy. Our firm has a team approach to working with clients and other stakeholders/participants, as well as an ongoing involvement with regulatory agencies and approval procedures. Gannett Fleming has a continuous improvement of internal analysis and product delivery processes. We provide full site remediation services and in-house expertise to deliver all services required for site development projects. These proactive approaches provide our clients with the tools needed to plan and implement successful development projects.



Desert Mountain - Channel Improvements



Main Street Plaza - Scottsdale, Ariz.

Types of Projects

- Residential developments
- Traditional neighborhoods
- Retirement/assisted living facilities
- Recreational (parks, trails, golf courses)
- Cluster developments
- Resorts
- Industrial parks and facilities
- Business/office parks
- Office buildings
- Commercial/retail facilities
- Healthcare facilities
- Schools/colleges/universities
- Churches
- Parking facilities
- Military facilities
- Municipal/government facilities
- Energy-generating facilities

Security Services: Minimizing Risk

With decades of consulting experience with senior executives in all levels of government and private industry, Gannett Fleming understands the importance of minimizing the risk of safety and security breach.

We understand the need and methods for properly leading an organization around the pitfalls of management decisions surrounding standards of care, compliance, and operational security. While we cannot create a “judgment-proof” operation, the return on investment for money allocated to executive leadership will be realized quickly.

Our services in minimizing security risk include:

- Creating a strong defense against negligence claims
- Optimizing safety and security expenditures
- Establishing effective and efficient governance
- Optimizing and refining safety and security operations
- Establishing the necessary infrastructure, methodology, and metrics



- Optimizing computing network use with electronic security systems
- Providing operational assistance, including periodic assessments
- Implementing ongoing process improvement.

Gannett Fleming security experts offer help with the following subjects:

- Optimizing security programs to reduce security budgets
- Designing and integrating electronic security systems
- Sensitive compartmented information facility (SCIF) design
- Vehicle and pedestrian entry control points
- Blast analysis
- Commissioning and deployment services
- Physical and cyber protection policies and procedures.

Gannett Fleming Intellectual Capital Network

Gannett Fleming's staff draws on the skills, knowledge, contacts, and experience of more than 2,000 professional staff located across the globe. Through the use of a state-of-the-art, web-based collaboration portal, every staff member has full access to the intellectual capital of the entire Gannett Fleming organization. With the background, experience, and intellectual resources of each of our engineers, designers, and executive consultants, organization, security, and technology issues are identified and addressed in the most effective and professional manner.



The Gannett Fleming Security Advantage

The Security Services Group at Gannett Fleming provides leadership to manage security programs, as well as design, install, configure, deploy, and manage some of the most complex security systems in the world. Gannett Fleming has almost 100 years of experience working at the senior level of hundreds of local, state, and federal agencies



ranging from the U.S. Departments of Defense and Homeland Security to the cities of New York, Philadelphia, Phoenix, Los Angeles, Newark, Pittsburgh, Miami, and many others.

Experience Includes:

- Government facilities
- Water and wastewater
- Highways, bridges, and tunnels
- Transit and rail
- Aviation
- Ports and waterways
- Commercial and industrial
- Private facilities.

800.233.1055

www.gannettfleming.com

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McEwan van der Mandele
315.292.1104
mvandermandele@gfnet.com

Offices Worldwide



BAMM00090-0212

Bus Maintenance Facilities

Gannett Fleming is a leader in the planning and design of Bus Rapid Transit (BRT) systems and facilities. The depth of our experience includes dedicated BRT corridors and on-street networks, as well as station platforms and architecture and bus maintenance facilities. Through 96 years of firm experience, our advancements in the industry and application of innovative solutions makes BRT and bus maintenance facility planning and design among our core competencies. Using a holistic approach to multimodal transportation planning, we plan and design the “hard” engineering elements (such as right-of-way, vehicle technology, service headways, and stop frequency), but recognize that much of the success of any transit system rests with the quality of the trip for the rider, which can depend on such intangibles as comfort, aesthetics, cleanliness, and security.

Gannett Fleming has been involved in the planning, design, and construction management of more than 150 bus maintenance facilities. Each facility has been integrated into the site to provide maximum functionality with built-in sustainable features. Our planning and environmental documentation expertise assists in bringing bus maintenance facility projects and new system routes and services to a Record of Decision (ROD) through the National Environmental Protection Agency (NEPA) process.

Our approach is based on combining sound planning and engineering with effective decision-making processes, involving the client and regulatory agencies. To this end, our services go beyond designing facilities. We see the whole picture by providing services, such as bus facility needs analysis, site assessment and evaluation, financing solutions, alternative project delivery options, program management (project controls), sustainable design/LEED®, and ongoing facility maintenance management. Gannett Fleming’s staff



Navajo Transit Administration and Maintenance Facility - Fort Defiance, Ariz.

of architects, planners, and engineers work hand-in-hand to plan and design multimodal systems to be successful from both the operator and rider points of view.

Services Provided

- BRT operations and service planning
- Master planning (including BRT corridors and maintenance facility site selection)
- Programming
- Facility architectural design
- Industrial engineering/equipment
- Industrial piping design
- Civil/site development
- Site remediation
- Structural system design
- Mechanical and electrical engineering
- Geotechnical engineering
- Fueling plans, including alternative fuels
- Program management (cost/schedule control)
- Construction inspection, administration and management
- Project close out and documentation
- Commissioning
- Building Information Modeling (BIM)

Aviation/Airport Engineering

Gannett Fleming's multi-disciplined approach to airport engineering and planning allows us to offer complete inhouse planning, design, and program/construction management services. We have delivered services to our airport clients through alternative delivery methods, including construction manager-at-risk and design-build. We offer proven expertise and services in the following areas related to airfields and aviation-related facilities.

Gannett Fleming's airport design engineers develop sound technical solutions supplemented by construction phasing plans and schedules that minimize the impacts on airport operations and access, applying advanced technologies and cost-saving strategies. Keenly sensitive to the client's need to maintain on-time air services, uninterrupted pedestrian and vehicular traffic, and a safe operating environment, Gannett Fleming understands the real-world issues of the aviation business. We offer practical and innovative engineering solutions that address the concerns of each program phase but also bridge the challenges of each phases' integration.



Phoenix Sky Harbor East Lot Parking Structure



PHX Sky Train™ - Taxiway R / City of Phoenix Aviation Department

Recipient of the 2010 WTS Innovative Transportation Solutions Award

Planning and Design Expertise

- Site selection studies
- Airport obstruction analysis (FAR Part 77, TERPS)
- Noise analysis (integrated noise model)
- Land use and environmental impact studies
- Geographic information systems (GIS)
- Custom software design
- Grant applications and grant administration
- Runway and taxiway design and rehabilitation
- Automated people movers
- Vertical transportation
- Airfield lighting
- Airfield structural facilities design (airside and landside)

Bridge/Structural Engineering

Gannett Fleming's bridge group has been providing services related to the design, rehabilitation, inspection, and construction management of structural systems and facilities for more than 65 years. These services include bridges; tunnels; public transit and railroad systems; water and wastewater facilities; drainage structures; and residential, commercial, and industrial facilities for both public agencies and private clients. Gannett Fleming's clients benefit from our vast experience in alternate designs, value engineering, design-build, and practical solutions for complex construction situations. We have developed an award-winning structural design philosophy that emphasizes balancing a blend of aesthetics and economy. Our staff has also developed context-sensitive rehabilitations for a variety of historic restoration projects.

Photo courtesy of Hensel Phelps



PHX Sky Train™ - Taxiway R, City of Phoenix Aviation Department. First structure over an active taxiway in the world.



**U.S. 70 Gila River Bridge,
Arizona Department of Transportation**

Services Provided

- Carbon fiber reinforced polymers (CFRP)
- Bridge inspections
- Bridge rehabilitation/widening
- Drainage structures
- Grade separation structures
- Railroad structures
- Complex bridges
- Retaining walls
- Sound barriers
- Viaducts
- Waterway crossings
- Tunnels
- Forensic investigation
- Design-build
- Constructability evaluations
- Historic structure preservation
- Special structural inspection
- Water-wastewater
- Airport facilities

Dams and Geotechnical Engineering

Since 1915, the strength of Gannett Fleming's dam engineering practice is found in our people, experience, and commitment to "Amaze our clients with responsiveness and innovation and become their trusted advisor." Our integrated teams of planners, scientists, engineers, and managers work to create cost-effective infrastructure projects that are socially, environmentally, and financially sustainable. We respond to a wide variety of water resources goals, including watershed management, water supply, hydropower, navigation, flood control, and recreation.

Geotechnical factors, such as topography, soils, geology, or groundwater, affect most engineering projects. Gannett Fleming's geotechnical engineering staff includes more than 150 engineers, geologists, and hydrogeologists, many with advanced degrees in their specialty. We provide solutions for foundations, underground construction, earth structures, groundwater resources, foundation rehabilitation, and marginal building sites. Our geotechnical engineers and geologists specialize in landslides, sinkholes, mine subsidence, seepage, expansive soils, and seismic activity.

Our geotechnical personnel are accustomed to working with other disciplines in a team effort to design projects. Whether working as part of a multidisciplinary in-house team, or directly with an outside client, we are involved with a project from conception through final design and construction. It is important to have this continuity, so as the project develops refinements can be made to the geotechnical designs, achieving optimum solutions.



Hawaii Phase I Investigations - State of Hawaii, DLNR

Services Provided:

- Dam investigations/inspections
- Final design and post design services
- Planning
- Permitting
- Emergency response planning
- Hyrdologic and hydraulic modeling
- Site evaluation
- Site characterization
- Testing and instrumentation
- Geophysics
- Geotechnical laboratory services
- Ground modification
- Foundations
- Earth strucutres
- Groundwater hydrogeology

Drainage and Hydraulics/Hydrology

Gannett Fleming offers an extensive range of services related to the master planning, design, rehabilitation, retrofit, and construction management of all types of stormwater drainage, flood control, and conveyance projects, ranging from stormdrain systems, culverts, bridges, channels, retention/detention basins, and dams. We serve a wide variety of clients from federal, state, county, and municipal governments, as well as private development clients and Native American communities. Our staff has been providing these services in Arizona for more than 60 years. We have built a solid reputation for providing timely, accurate service and, as a result, a significant amount of the work we undertake is for repeat clients. Understanding and meeting our clients' needs is our first priority.

Our staff is experienced in addressing many issues that are common to flood control/conveyance projects, such as roadway crossings; right-of-way/ easement constraints and acquisitions; environmental determination, such as jurisdictional delineations; utility conflicts; traffic control during construction; pedestrian and vehicular safety; stakeholder involvement; public relations;



Pyramat Reinforced Banks



White Tanks Flood Retarding Structure No. 4, Flood Control District of Maricopa County, Arizona

regulatory and/or agency permits, such as 401/404 permits for water quality and "Waters of the United States"; and other related issues.

Types of Projects

- HEC-1, TR-20, HMS and Rational Method for Hydrologic Modeling
- Flo-2D Two Dimensional Hydrologic/ Hydraulic Modeling
- BOSS RMS (based on HECRAS) and GeoRAS for Steady/Unsteady Flow Hydraulic Modeling
- StormCAD and Customized Software for Stormdrain Pressure Flow Analyses
- Scour and Sediment Transport Modeling using HEC-6
- GIS, Microstation, and AutoCAD Based Drainage Design
- Area Drainage Master Studies/Plans
- Stormwater Pollution Prevention Plans for Water Quality/Quantity
- FEMA Floodplain Delineation Studies
- Bridge and Culverts Hydraulics and Scour
- Urban Floodwater Damage Economic Evaluation

Highway/Roadway Engineering

Through years of dedicated service, Gannett Fleming has built a solid reputation as a leader in the planning, engineering, design, and construction management of transportation projects by delivering innovative concepts and award winning designs across the U.S. and internationally. Serving a wide variety of municipal, state, and federal clients since 1915, our professional staff provides expertise in all phases of transportation development.

The experience of our highway professionals ranges from the design of large, major highway systems to two-lane arterials, realignments, bridge approaches, and service and access roads. From corridor studies and master plans, to interstate roadways and high-speed electronic toll facilities, Gannett Fleming has demonstrated leadership in the full array of highway engineering and design services.



S.R. 188 - Arizona Department of Transportation



**I-10 Dust Storm Detection and Warning System
New Mexico Department of Transportation**

Services Provided

- Corridor planning/alternatives analysis
- Transportation planning and forecasting
- Traffic engineering
- Highways
- Bridges/structures
- Tunnels
- Toll plazas
- Intelligent transportation systems
- Traffic incident management
- Geographic information systems asset management
- Drainage
- Design-build
- Construction management

Intelligent Transportation Systems

As a leader in the application of technology to solve transportation problems and issues, Gannett Fleming offers a variety of planning, engineering, system integration, construction management, and software development services that position us to meet any project challenge.

In today's ever-changing world, the focus of transportation agencies has evolved. The focal point has expanded beyond building and maintaining transportation networks to include improving the efficiency of existing operations. It is a well-established belief that slowly adding infrastructure will not meet future demands in transportation network capacity. Improving mobility and safety, reducing fuel consumption and emissions, and providing effective traveler information are prime concerns. As a result, transportation operations have become critical to efficiently manage the transportation network, and intelligent transportation systems (ITS) makes this possible.

Gannett Fleming provides a complete range of ITS services, from developing the initial concepts to planning, design, integration, implementation, and construction management services.



I-10 Advanced Traveler Information System - New Mexico Department of Transportation

Services Provided

- Strategic planning and its architecture development
- Freeway management systems (FMS)
- Advanced transportation management systems (ATMS)
- Advanced traveler information systems (ATIS)
- Advanced public transportation systems (APTS)
- Traffic management centers (TMC)
- System management
- Traffic signal corridor and arterial management systems
- Transit signal system improvements
- Commercial vehicle operations (CVO)
- Electronic payment and pricing
- Web-enabled software solutions
- Asset management systems
- Systems integration
- Telecommunications systems
- Incident and event management
- Work zone safety and mobility
- Construction engineering and inspection (CEI)



Incident and Emergency Management Session - ITS Arizona

Freight and Passenger Transit Planning and Engineering

Gannett Fleming has more than 45 years of experience in the planning and design of rail transit systems. Our clients benefit from superior planning, engineering, and construction-phase services as we continue to actively advance the role of rail in the future of transportation. Clients choose us for a variety of reasons, but most importantly, because we continue to deliver consistent quality projects.

In addition to providing planning and design services for transit systems, we also have an extensive resume of designing transit maintenance facilities. Since 1973, our experience covers more than 300 facility projects, with a wide range of sizes, site configurations, and functional requirements. Projects have included light, heavy, and commuter rail facilities, as well as passenger rail yard and shop facilities.



Central Phoenix/East Valley Light Rail Maintenance Facility
RPTA/VMR



Central Phoenix/East Valley Light Rail Transit System -
RPTA/VMR

Services Provided

- Master planning
- Programming
- Environmental impact statements (EIS)
- Facility station architectural design
- Sustainable design/LEED® certification
- Industrial engineering/equipment selection
- Civil/site track design
- Systems engineering for signals, communication, and traction power
- Geotechnical investigation and engineering
- Structural system design
- Mechanical and electrical engineering
- Fueling storage and distribution systems
- Cost estimating
- Project management (cost/schedule control)
- Program management oversight
- Construction inspection, administration, and management
- Project close out and documentation
- Commissioning



Your Trusted Advisors for Geospatial Technologies

At GeoDecisions, we strive to amaze our clients through superior service, world-class solutions, and innovative problem solving. The need to plan, budget, manage information, protect assets, and preserve resources is becoming more important than ever before. For every project, we combine the best talent and resources from across our firm to deliver results.

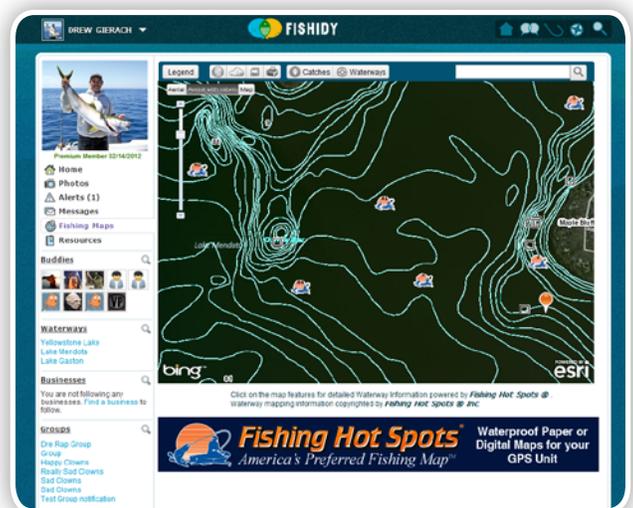
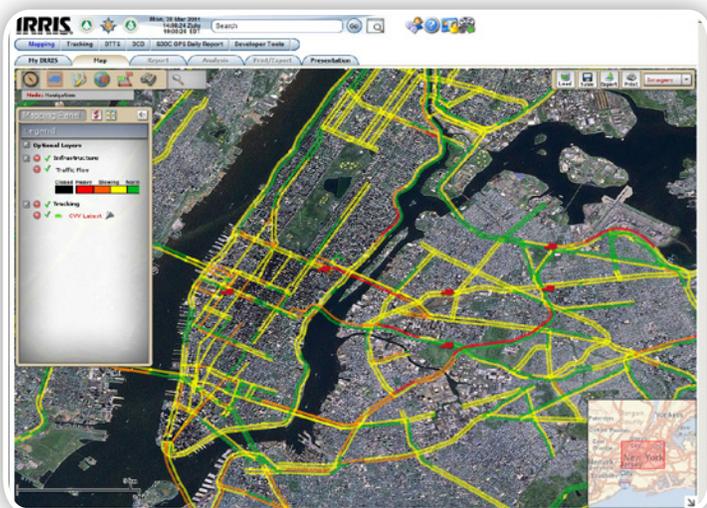
GeoDecisions' experienced professionals have achieved advanced degrees, earned industry-specific certifications, and consistently receive the latest technology training to aid in building superior applications. Our sophisticated combination of talent provides us with the vision to identify and mitigate risk on projects, resulting in more effective delivery and success.

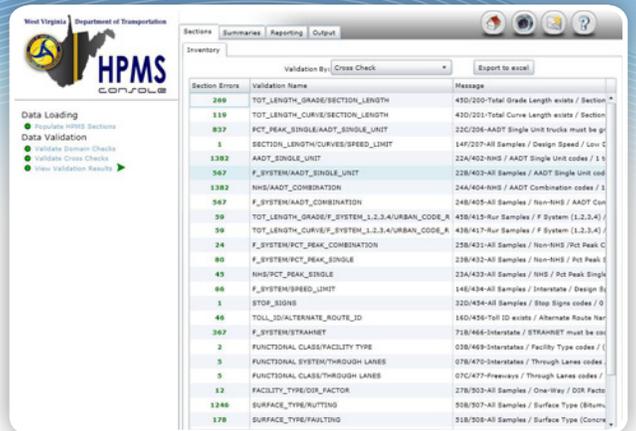
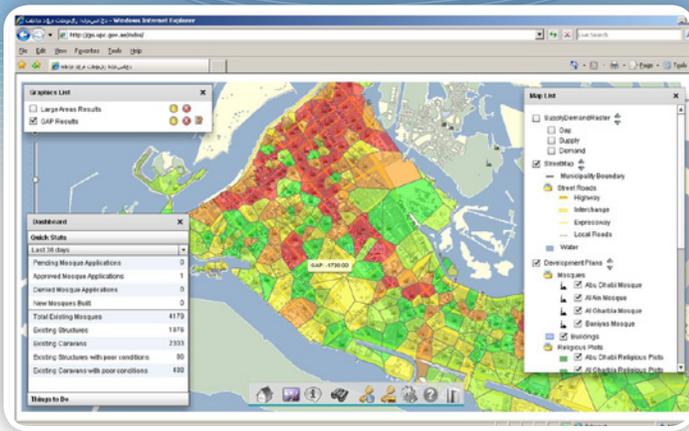
The Power of GIS

Our foundation for success is based on the belief that the true power of GIS lies in the integration of diverse information technologies, data formats, and systems. We apply GIS to integrate separate and disparate data formats to offer enhanced reporting, visibility, and analysis capabilities.

Markets Served:

- **Commercial**
 - Insurance
 - AVL
 - Logistics
- **Local and Municipal Government**
 - Water/Wastewater
 - Asset Management
 - Municipal GIS Support
- **State Government**
 - Transportation
- **Federal**
 - Defense
 - Homeland Security
 - Logistics
- **International**
 - Middle East
 - Southeast Asia





Delivering Innovation

The ability to make smarter, faster decisions is critical. Our solutions provide decision makers with a new level of analysis, intelligence, and visibility and consistently deliver a return on investment for our clients. GeoDecisions' expertise in creating innovative geospatial solutions that integrate the latest cutting-edge technologies presents clients with the ingenuity they need to solve problems with advanced solutions.

Capabilities:

- Enterprise GIS Deployment
- Strategic Planning
- Needs Analysis and Requirements
- Database Design and Development
- Systems Design and Integration
- Application Design and Development
- Wireless Technology Integration
- Logistics Optimization
- Business Intelligence
- Web Design and Hosting
- Certified Training

Software and Applications



GeoDecisions is an information technology company specializing in geospatial solutions. We deliver strategic geographic information systems (GIS), information technology (IT), and intelligent transportation system (ITS) solutions and applications to empower defense, homeland security, transportation, state, county, municipal, and commercial clients to make smarter, more-informed decisions.



QUALIFICATIONS

Who we are

Vertical Transportation Excellence (VTX), a division of Gannett Fleming, Inc., is a group of industry professionals specializing in the design, modernization, and maintenance of elevators and escalators.

Our multidisciplinary group of designers, industry experts, and analysts has a single focus: To help clients achieve their goals through practical design and program management. Our success is our proven ability to:

- Identify and understand client needs and goals
- Remain in the forefront of industry applications and life safety/code enforcement issues
- Plan, develop, design, and implement building transport solutions.

We routinely participate on project teams that include some of the international building markets' leading names - architectural, mechanical, and electrical engineering, and specialty design firms acknowledged as the premier professionals in their respective fields.

We specialize in new building design, modernization, preventative maintenance and maintenance management, materials handling, and people mover systems, as well as integration with intelligent building design concepts.

Our collaboration with clients begins with needs assessment and concept development, then migrates through design, engineering, procurement, and implementation to testing, commissioning, and operational training. Throughout the process, we evaluate current technology, systems, and integration design against these essential criteria:

- Total cost effectiveness.
- Flexibility of design and the capacity for expansion - not only in operational demand, but in accommodating new and future technologies.
- Functionality best suited to client needs and traffic patterns.
- Related building systems and design issues.



Patrick J. Welch
President
Philadelphia, PA



David P. Hansen, C.E.I.
Senior Vice President
Philadelphia, PA



Robert C. Keller, C.E.I.
Vice President
New York, NY



Tony DeFrancesco, C.E.I.
Vice President
Phoenix, AZ



Kenneth G. Hamby, C.E.I.
Vice President
Baltimore, MD and
Washington, DC



What we do best

Our technical expertise is focused on elevator, escalator, moving walk, materials handling design, and technology consulting. We have professional engineers and technical consultants who are recognized by their peers as experts within their respective disciplines. Our depth of knowledge and proven experience spans the following:

New Building Design

Comprehensive analysis and design leading to innovative solutions in the areas of:

- Pedestrian traffic analysis
- Schematic design including core development
- Equipment selection
- Code compliance analysis
- Design development, contract documents
- Peer review of contract documents/approach
- Value engineering
- Quality assurance review
- Commissioning and owner's representative services
- Remote motoring
- O&M maintenance program
- Construction phase services including shop drawings review.

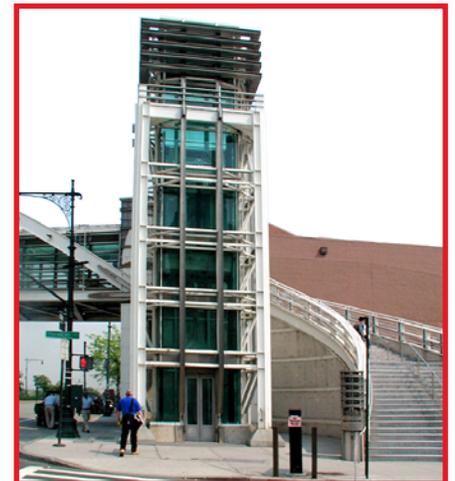
Renovation/Modernization

Combining understanding of leading-edge technology with an appreciation of the client's practical needs in:

- Pedestrian traffic analysis
- Electrical power studies
- HVAC evaluation
- Code compliance analysis
- Schematic design using flexible solutions
- Design development, contract documents
- Peer review of contract documents/approach
- Commissioning and owner's representative services.



Metro Subway System,
Washington Metropolitan Area Transit
Authority



Tribeca Pedestrian Bridge,
Battery Park City Authority



Walter Rand Transportation Center,
New Jersey Transit

Contract Maintenance Analysis

Blending facilities management engineering with hands-on industry experience to develop practical cost-effective programs with:

- Equipment surveys and contract review
- Maintenance management
- Development of tailored maintenance agreements
- Software and service database development
- Reconciliation of problematic areas
- Code compliance analysis
- Periodic, routine, and annual inspection services.

Construction Management and Contract Enforcement

Using industry professionals and certified inspectors to manage and enforce all phases of contracting:

- Project planning and program management services
- Design/Build services for construction and facilities management
- Commissioning
- Contract enforcement
- Product enforcement
- Acceptance and annual inspection services.

New Construction, Design, and Modernization

- Elevators
- Escalators
- Moving Walks.

Value Added Maintenance Consulting

- Remote monitoring of equipment
- Database management consulting
- Work order development
- Organization development
- Procedural development and review

Inspection

- Independent reviews of equipment
- Code compliance
- ASME C.E.I.-1 certified inspectors for elevators, escalators, and moving walks.



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