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

1. REVISED ADSPO13-00003465*: Annual Request for Qualifications*

a.	FIRM (OR BRANCH OFFICE) NAME:	Gannett Fleming, Inc.
b.	FIRM (OR BRANCH OFFICE) STREET:	4722 N. 24th 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:	Ronald D. Schreier, PE, Vice President
i.	POINT OF CONTACT TELEPHONE NUMBER:	602.553.8817, ext. 8206
j.	POINT OF CONTACT E-MAIL ADDRESS:	rschreier@gfnet.com
k.	NAME OF FIRM *(If block 1a is a branch office)*:	Gannett Fleming, Inc.

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

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

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

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
Robert M. Stanley, PE	Project Manager and Structural Engineering	1. TOTAL 33	2. WITH CURRENT FIRM 21

d. FIRM NAME AND LOCATION *(City and State)*

Gannett Fleming — Gannett Fleming, Inc., Phoenix, AZ

e. EDUCATION *(DEGREE AND SPECIALIZATION)*

BS / Civil Engineering

f. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

PE: Arizona (Civil) - No. 20954 (1987)
PE: California - No. 46237 (1991)
PE: Arizona (Structural) - No. 27352 (1993)
PE: New Mexico - No. 15136 (2003)
PE: Colorado - No. PE-40158 (2010)

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

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 *(City and State)*
PHX Sky Train™, Phoenix Sky Harbor International Airport, Phoenix, AZ, *City of Phoenix Aviation Department*

(2) Year Completed
Professional Services: 2013
Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

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 44th Street train station design provides a link for the automated train to the Phoenix Light Rail system.

2)

(1) TITLE AND LOCATION *(City and State)*
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 *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Principal for the structural design of a 15,000-square-foot 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 preliminary design stage. The building will have a Leadership in Energy and Environmental Design (LEED) Silver certification.

3)

(1) TITLE AND LOCATION *(City and State)*
Phoenix Convention Center Expansion, Phase 2, North Hall, Phoenix, AZ, *City of Phoenix*

(2) Year Completed
Professional Services: 2009
Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Principal-in-Charge/Project Manager for the special structural inspection services for the 1.4 million-square-foot 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, Washington. NSB was the design engineer for the parking, below grade, and foundations, and provided special inspections for the entire project.

4)

(1) TITLE AND LOCATION *(City and State)*
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)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

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.

5)

(1) TITLE AND LOCATION *(City and State)*
Scottsdale Community College - Language/Communications, Scottsdale AZ, *Maricopa Community College District*

(2) Year Completed
Professional Services: 2004
Construction *(if applicable)*: 2005

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Principal/Project Manager for this new 28,055-square-foot 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.

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

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
Joseph Botchie, R.A., NCARB	Architectural	1. TOTAL 41	2. WITH CURRENT FIRM 40

d. FIRM NAME AND LOCATION *(City and State)*

Gannett Fleming — Gannett Fleming, Inc., Phoenix, AZ

e. EDUCATION *(DEGREE AND SPECIALIZATION)*

B.Arch.

f. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

RA: Pennsylvania - No. RA007897X (1978)
New York - No. 21805-1 (1990)
Massachusetts - No. 8565 (1991)
North Carolina - No. 6484 (1992)
Ohio - No. ARC.9711769 (1997)
Virginia - No. 0401010786 (1997)
Maryland - No. 10832 (1997)
Connecticut - No. ARI.0009537 (2000)
Arizona - No. 35429 (2000)
District of Columbia - No. ARC100180 (2001)
Tennessee - No. 103036 (2005)
Kentucky - No. 6178 (2006)
Florida - No. AR95606 (2011)
National Council of Architectural Registration Boards (NCARB) - No. 38488 (1989)

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

Professional Affiliations: Member of Upper Allen Township Historical Architectural Review Board; 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 — [X] Check if project performed with current firm

Senior Architect responsible for supervising the surveying and documentation of the repair or replacement of roofs on nine buildings, including one green roof.

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)*: N/A
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

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 square feet on the main floor with approximately 18,700 square feet of mezzanine spaces for offices, lockers, and other auxiliary functions. The project requires multiple on-site workshop meetings with the owner's representatives 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 will be developed to a 30 percent completion level.

3)
(1) TITLE AND LOCATION *(City and State)*: **Fire and Life Safety Code Upgrade, State Capitol Complex, Harrisburg, PA,** *Pennsylvania Department of General Services*
(2) Year Completed — Professional Services: 1998 — Construction *(if applicable)*: 1998
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Project Manager/Architect of Record for the architectural services on the renovations to the Main Capitol Building and seven adjacent office facilities within the Capitol Complex. The code upgrades included new fire alarm and fire suppression systems. The project involved furniture surveys, space planning, phased personnel and furniture moves, hazardous material abatement, and historic finish replication.

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: N/A — Construction *(if applicable)*: N/A
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

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.

5)
(1) TITLE AND LOCATION *(City and State)*: **Maryland Air National Guard Base, Civil Engineering Maintenance Facility, Baltimore, MD,** *USP&FO for Maryland*
(2) Year Completed — Professional Services: 1992 — Construction *(if applicable)*: 1992
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Project Architect/Manager for the design of an 18,000-square-foot civil engineering maintenance facility located at Glenn Martin Airport. Also responsible for the renovation of an existing 18,000-square-foot office building. The project included designs for a secure central communications room for encoding and decoding messages, a parking area, and associated site work.

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

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
Sateesh J. Nabar, PhD, PE	Structural Engineering	1. TOTAL 41	2. WITH CURRENT FIRM 21

d. FIRM NAME AND LOCATION *(City and State)*

Gannett Fleming — Gannett Fleming, Inc., Phoenix, AZ

e. EDUCATION *(DEGREE AND SPECIALIZATION)*

BE / Civil Engineering
MTech / Structural Engineering
PhD / Structural Engineering

f. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

PE: Arizona (Civil) - No. 14621 (1982)
PE: Arizona (Structural) - No. 21887 (1988)
PE: California (Civil) - No. 46942 (1991)
PE: California (Structural) - No. 3579 (1991)
PE: Nevada (Civil) - No. 009361 (1991)
PE: Nevada (Structural) - No. 009361 (1992)
PE: Hawaii - No. PE-11203 (2004)

g. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, 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)

(1) TITLE AND LOCATION *(City and State)*
Tempe Town Lake Dam Replacement, Tempe, AZ, *City of Tempe*

(2) Year Completed: Professional Services: Ongoing; Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Structural Engineer for the evaluation and design for the replacement of the Tempe Town Lake downstream dam. Tempe Town Lake is formed by two Bridgestone inflatable rubber dams constructed across the Salt River channel at the upstream and downstream ends of the Lake. The downstream dam consists of four 16-foot-high air-inflated rubber bladders, each approximately 240 feet long, anchored to a concrete foundation slab. 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 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 to the City Council and Mayor. The design phase of the project will include performing site surveying; geotechnical investigation and analyses; conducting hydrologic, hydraulic, and structural analyses; preparing final construction plans and project specifications; and permitting.

2)

(1) TITLE AND LOCATION *(City and State)*
Unified Plant 2005 (UP05) Expansion, 91st Avenue Wastewater Treatment Plant, Phoenix, AZ, *City of Phoenix*

(2) Year Completed: Professional Services: 2010; Construction *(if applicable)*: 2010

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Project Manager for the NSB design team, which provided structural design and construction administration for the facility. The 30 mgd expansion had a construction budget of $115 million. The design tasks included new primary clarifiers, new aeration basins, a return activated sludge/waste activated sludge pump station, new secondary sedimentation basins, and effluent conveyance structures. The project is currently under construction.

3)

(1) TITLE AND LOCATION *(City and State)*
Basin Remediation at Deer Valley Water Treatment Plant, Phoenix, Arizona, *City of Phoenix*

(2) Year Completed: Professional Services: 2011; Construction *(if applicable)*: 2011

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

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.

4)

(1) TITLE AND LOCATION *(City and State)*
42nd Place (1-ES4) Water Reservoir Project, Phoenix, Arizona, *City of Phoenix*

(2) Year Completed: Professional Services: 2013; Construction *(if applicable)*: 2013

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

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.

5)

(1) TITLE AND LOCATION *(City and State)*
10 MGD Expansion of Airport Water Reclamation Facility, Chandler, Arizona, *City of Chandler*

(2) Year Completed: Professional Services: 2013; Construction *(if applicable)*: 2013

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

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.

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

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
Luigi J. Leone	Industrial Engineering - Maintenance Facilities	1. TOTAL 33	2. WITH CURRENT FIRM 29

d. FIRM NAME AND LOCATION *(City and State)*

Gannett Fleming — Gannett Fleming, Inc., Phoenix, AZ

e. EDUCATION *(DEGREE AND SPECIALIZATION)*

Pierce College, 1974
California State Polytechnic University – Pomona, 1975-1978
California State University – Long Beach, 1979-1981

f. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

N/A

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

H. RELEVANT PROJECTS

1)

(1) TITLE AND LOCATION *(City and State)*
PHX Sky Train™, Phoenix Sky Harbor International Airport, Phoenix, AZ , *City of Phoenix Aviation Department*

(2) Year Completed — Professional Services: 2008 — Construction *(if applicable)*: 2013

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

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 percent documents to be included as part of the bid process to procure the system's technology. The design addressed several major components, including a 90,000-square-foot, 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.

2)

(1) TITLE AND LOCATION *(City and State)*
Transit Maintenance and Administration Facility Design-Build Services, Fort Defiance, AZ, *Navajo Transit System*

(2) Year Completed — Professional Services: 2011 — Construction *(if applicable)*: 2012

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

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 square-foot building to house NTS's administration, operations, and maintenance staff on a 4.5 acre 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 including civil, mechanical, plumbing, electrical, geotechnical, and industrial engineering. The industrial design included programming, site layouts, facility layouts, and equipment layouts.

3)

(1) TITLE AND LOCATION *(City and State)*
New Fleet-Maintenance Facility, Tucson, AZ, *Pima County*

(2) Year Completed — Professional Services: 2012 — Construction *(if applicable)*: Ongoing

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

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, to assist in effective coordination among disciplines.

4)

(1) TITLE AND LOCATION *(City and State)*
Bus Operations, Maintenance, and Administrative Facilities, Bakersfield, CA, *Golden Empire Transit District*

(2) Year Completed — Professional Services: Ongoing — Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

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 54,000-sf maintenance building with supporting operations, a CNG fuel and wash facility to support the 130 CNG bus and 25 CNG paratransit fleet, and a 17,000-sf administration facility. The facility is being designed to meet Leadership in Energy and Environmental Design Platinum rating. Responsibilities include providing industrial engineering support, providing shop layouts, procuring equipment and specifications and estimating cost, and generating a Revit model.

5)

(1) TITLE AND LOCATION *(City and State)*
Modesto Area Express Bus Maintenance, Operations, and Storage Facility, Modesto, CA, *City of Modesto*

(2) Year Completed — Professional Services: 2011 — Construction *(if applicable)*: 2012

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Subconsultant Project Manager responsible for industrial engineering for a new 70-bus maintenance facility. The project included a 34,000-sf vehicle maintenance building with six multi-purpose lift repair bays, an operations building, a fuel building, a bus wash/chassis wash building with a drive-through washer, a shade canopy in the parking area, and security fencing. Responsibilities included generating an equipment list to identify proper utility requirements for shop equipment, providing shop layouts to maximize the maintenance operations in the facility, and assisting in generating alternative bus parking layouts for maximizing the options for fleet growth.

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

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
Alan R. Huffman, P.E.	Electrical	1. TOTAL 42	2. WITH CURRENT FIRM 14

d. FIRM NAME AND LOCATION *(City and State)*

Gannett Fleming — Gannett Fleming, Inc., Phoenix, AZ

e. EDUCATION *(DEGREE AND SPECIALIZATION)*

B.S., Electrical Engineering, Carnegie Mellon University, 1967
M.S., Electrical Engineering, Carnegie Mellon University, 1969

f. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

P.E.: Pennsylvania - No. PE057582 (2001)
P.E.: Arizona - No. 37636 (2002)

g. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, 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	[X] Check if project performed with current firm	
	Electrical Project Manager responsible for the design of lighting for a new bicycle/pedestrian tunnel.		
	(1) TITLE AND LOCATION *(City and State)*	(2) Year Completed	
		Professional Services	Construction *(if applicable)*
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	[X] Check if project performed with current firm	
	Electrical Project Manager responsible for the electrical design of a new chemical treatment facility, associated building, and clearwell at an existing water treatment plant.		
	(1) TITLE AND LOCATION *(City and State)*	(2) Year Completed	
		Professional Services	Construction *(if applicable)*
3)	**Pump Station Improvements, Pine Township, Mercer County, PA,** *Pine Township*	2013	N/A
	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE	[X] Check if project performed with current firm	
	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.		
	(1) TITLE AND LOCATION *(City and State)*	(2) Year Completed	
		Professional Services	Construction *(if applicable)*
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	[X] Check if project performed with current firm	
	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.		
	(1) TITLE AND LOCATION *(City and State)*	(2) Year Completed	
		Professional Services	Construction *(if applicable)*
5)	**Data Center HVAC System Upgrades, Washington County, PA,** *Washington County*	2008	2008
	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE	[X] Check if project performed with current firm	
	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.		

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

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
Thomas M. Long, P.E., LEED AP	Mechanical	1. TOTAL 44	2. WITH CURRENT FIRM 20

d. FIRM NAME AND LOCATION *(City and State)*

Gannett Fleming — Gannett Fleming, Inc., Phoenix, AZ

e. EDUCATION *(DEGREE AND SPECIALIZATION)*

B.S., Mechanical Engineering

f. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

P.E.: Pennsylvania - No. PE021700E (1974)
Virginia - No. 0402010220 (1978)
California - No. 32437 (2003)
North Carolina - No. 018294 (2003)
Delaware - No. 12965 (2003)
New Jersey - No. 24GE04440200 (2003)
Nevada - No. 19540 (2008)
Massachusetts - No. 48333 (2009)
New Mexico - No. 17503 (2011)
Arizona - No. 53671 (2012)
USGBC - LEED 2.0 Accredited Professional (2002)

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

Professional Affiliations: American Society of Heating, Refrigerating and Air-Conditioning Engineers (Past Chapter President); International District Energy Association

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 (WMATA)*

(2) Year Completed — Professional Services: N/A; Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

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.

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)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

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.

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

[X] Check if project performed with current firm

Discipline Manager responsible for the mechanical design of upgraded HVAC systems for the Science and Engineering Building on the college campus. The project construction budget was approximately $5.1 million. 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. Duct and piping distribution systems outside the mechanical rooms were generally not within the scope of the project due to budgetary constraints. However, the owner also wanted to provide cooling for other areas as appropriate if the work could be accomplished within the construction budget. An innovative solution involved the use of existing air-distribution ductwork to supply neutral ventilation (outside) air to each space, with zoned heating and cooling provided by a variable-refrigerant-flow system.

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

[X] Check if project performed with current firm

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.

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

[X] Check if project performed with current firm

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. The project included two vehicle maintenance buildings; four barracks buildings; a Morale, Welfare, and Recreation/gymnasium building; a fire station, medical clinic, dining facility, training building, generator building, and underground ammunition bunker; and four warehouse buildings, four office buildings, three maintenance buildings used for the repair of small arms and communication equipment, and multiple other small support and security structures. The project also included the design of a bulk fueling and storage system serving both the refueling of vehicles and the fuel requirements of the diesel-electric power generators. The design of these building systems took into account the non-Western, South Asian culture and incorporated equipment that can be serviced and replaced locally.

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

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
Anthony J. DeFrancesco, CEI	Vertical Transportation	1. TOTAL 22	2. WITH CURRENT FIRM 12

d. FIRM NAME AND LOCATION *(City and State)*

Gannett Fleming — Gannett Fleming, Inc., Phoenix, AZ

e. EDUCATION *(DEGREE AND SPECIALIZATION)*

BS/Mechanical Engineering

f. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

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

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

Professional Affiliations: National Association of Elevator Safety Authorities International

H. RELEVANT PROJECTS

1)

(1) TITLE AND LOCATION *(City and State)*
On-Call, Open-End Vertical Transportation Services, Phoenix, AZ, *Maricopa County*

(2) Year Completed — Professional Services: Ongoing; Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Principal-In-Charge 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, quality assurance/quality control, bid document reviews, and construction administration and inspection services for the modernization of nine elevators at the Maricopa County Central Courts Building.

2)

(1) TITLE AND LOCATION *(City and State)*
PHX Sky Train™ Postdesign Services, Phoenix Sky Harbor International Airport, Phoenix, AZ, *City of Phoenix Aviation Department*

(2) Year Completed — Professional Services: Ongoing; Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Vertical Transportation Specialist responsible for facilities design for the PHX Sky Train, an automated people mover system, at the Phoenix Sky Harbor International Airport. As part of our services, our firm is providing postdesign 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. This project is being delivered using the Construction Management At-Risk delivery method. Our firm is working 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.

3)

(1) TITLE AND LOCATION *(City and State)*
Terminal 3 North Concourse Elevator 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

[X] Check if project performed with current firm

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.

4)

(1) TITLE AND LOCATION *(City and State)*
Design-Build Elevator Modernization at Barrister Place Building, Phoenix, AZ, *City of Phoenix, Engineering and Architectural Services Department*

(2) Year Completed — Professional Services: 2008; Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

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 and provided a request for qualifications and proposal assistance for the selection of the design-build contractor.

5)

(1) TITLE AND LOCATION *(City and State)*
Vertical Transportation Needs Assessment, Phase 1, Los Angeles International Airport, Los Angeles, CA, *The City of Los Angeles, Los Angeles World Airports*

(2) Year Completed — Professional Services: 2008; Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Project Manager responsible for the inspection, evaluation, and modernization/replacement needs assessment of vertical transportation equipment located at a major international airport. Phase 1 consisted of 34 elevators and 34 escalators that were categorized by the client as Priority I units. Provided elevator and escalator inspections to confirm that the condition of equipment met industry standards; complied with current code requirements and/or the code that was in effect when the units were installed; and determined the feasibility of modernization and/or replacement of the equipment. Analyzed elevator ride quality using the PMT EVA625 and tested the performance of the escalators using VTX's Parametricoder™ diagnostic system. Also conducted step/skirt performance index testing of the escalators.

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

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
Jonathan Pollack	Geospatial Technologies Asset Management	1. TOTAL 27	2. WITH CURRENT FIRM 21

d. FIRM NAME AND LOCATION *(City and State)*

Gannett Fleming — Gannett Fleming, Inc., Phoenix, AZ

e. EDUCATION *(DEGREE AND SPECIALIZATION)*

BA / Anthropology
MA / Anthropology (Archaeology)
MS / Agronomy (Soil Science)

f. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

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

H. RELEVANT PROJECTS

1)

(1) TITLE AND LOCATION *(City and State)*
Transportation Logistics Program, Various Clients

(2) Year Completed

Professional Services	Construction *(if applicable)*
Ongoing	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

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.

2)

(1) TITLE AND LOCATION *(City and State)*
GIS Consulting Services, Falconer, NY, *FORECON, Inc.*

(2) Year Completed

Professional Services	Construction *(if applicable)*
Ongoing	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

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.

3)

(1) TITLE AND LOCATION *(City and State)*
Indefinite Delivery Contract for Architectural/Engineering Services, Nationwide, *U.S. Army Corps of Engineers, Norfolk District*

(2) Year Completed

Professional Services	Construction *(if applicable)*
2005	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Project Director for GIS implementation for this contract, which included task orders for GIS implementation and IRRIS® maintenance and upgrades.

4)

(1) TITLE AND LOCATION *(City and State)*
Online Archaeological Site Submittal System, Harrisburg, PA, *Pennsylvania Department of Transportation*

(2) Year Completed

Professional Services	Construction *(if applicable)*
2002	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

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.

5)

(1) TITLE AND LOCATION *(City and State)*
Support and Development Project, Harrisburg, PA, *Pennsylvania Department of Transportation*

(2) Year Completed

Professional Services	Construction *(if applicable)*
2002	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

GIS Specialist for a second 5-year services contract 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. GID and GeoDecisions partnered on the previous 5-year contract to build PennDOT's current enterprise GIS. During this contract, GID implemented several Internet GIS applications, including cultural resources, an interactive traffic application, a publicly available video log application, and a roadside spraying management solution. The GeoDecisions team was responsible for developing the applications, building the databases, and deploying the new servers to the Internet server farm. GID's computer architecture has continued to evolve, incorporating Storage-Area Networks, Network-Attached Storage, and other state-of-the-art hardware environments.

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

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
S. Nasir Raza, PE, CFM	Infrastructure Planning; Hydrology and Hydraulics	1. TOTAL 28	2. WITH CURRENT FIRM 6

d. FIRM NAME AND LOCATION *(City and State)*

Gannett Fleming — Gannett Fleming, Inc., Phoenix, AZ

e. EDUCATION *(DEGREE AND SPECIALIZATION)*

BE / Civil Engineering
MS / Civil Engineering

f. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

PE: Arizona - No. 26132 (1992)
Kansas - No. 22535 (2002)
ASFPM Certified Floodplain Manager: Association of State Floodplain Managers, Inc. – No. US-09-04398 (2009)

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

Professional Presentations/Publications: "World's Largest Solar Plants in Arizona and California: Challenges in Designing Drainage Systems" Arizona Floodplain Management Association, Show Low, AZ, 2011; "Rawhide Wash and Two Dimensional Flow" Arizona Floodplain Management Association, Payson, AZ, 2009; "Multiuse Drainage Design of the 43rd Avenue Detention Basin and the Laveen Channel." Association of State Floodplain Managers, Phoenix, AZ, 2002; "A Partnered Approach to the Design of Natural Wash Corridors." American Society of Civil Engineers, Minneapolis, MN, 2000; "Watershed Modeling in a Pseudo Alluvial Fan." American Society of Civil Engineers, Minneapolis, MN, 2000 and Arid West Conference, Las Vegas, NV, 1999

H. RELEVANT PROJECTS

1)

(1) TITLE AND LOCATION *(City and State)*: **Desert Ridge, Azara and Paradise Ridge, North Phoenix,** *ASLD and private developers*

(2) Year Completed — Professional Services: 2011; Construction *(if applicable)*: Ongoing

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

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; Fees: $4m + for multiple assignments; Role: Project Manager at Gannett Fleming and previously at URS

2)

(1) TITLE AND LOCATION *(City and State)*: **Area 4E Hydrology, North Phoenix,** *ASLD and URS*

(2) Year Completed — Professional Services: 2012; Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

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 ; Fees:$117,745 ; Role: Project Manager

3)

(1) TITLE AND LOCATION *(City and State)*: **Butler Valley Basin Recharge and Recovery, Western AZ,** *ASLD*

(2) Year Completed — Professional Services: 2013; Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

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 ; Fees:$117,745 ; Role: Project Manager

4)

(1) TITLE AND LOCATION *(City and State)*: **Agua Fria River Floodplain Delineation at Avondale Reclamation Plant, Avondale, AZ,** *Avondale*

(2) Year Completed — Professional Services: 2012; Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Prepared complicated split and lateral overflow hydraulic analyses of the floodplain to remove (FEMA) Zone "A" designation and obtain a CLOMR; Fees: $65,986; Role: Project Manager

5)

(1) TITLE AND LOCATION *(City and State)*: **Solana Generating Station, 14 mi west of Gila Bend, AZ,** *Abengoa and subsidiaries*

(2) Year Completed — Professional Services: 2013; Construction *(if applicable)*: 2013

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

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 extensively used. Fees: $4.1m; Role: Project Manager

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

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
Robert L. Ward, P.E.	Sediment Transportation	1. TOTAL 40	2. WITH CURRENT FIRM 3

d. FIRM NAME AND LOCATION *(City and State)*

Gannett Fleming — Gannett Fleming, Inc., Phoenix, AZ

e. EDUCATION *(DEGREE AND SPECIALIZATION)*

B.S., Civil Engineering
Continuing Education:
Arizona State University Post-Graduate Studies: Open Channel Hydraulics; River Mechanics; Surface Water Hydrology; Geological Engineering

f. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

P.E.: Arizona - No. 13505 (1981)

g. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, 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, Mohave County, 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

[X] Check if project performed with current firm

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.

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*

(2) Year Completed: Professional Services 2013; Construction *(if applicable)* 2013

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

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.

3)
(1) TITLE AND LOCATION *(City and State)*
On-Call Engineering Services, *Avondale, AZ*

(2) Year Completed: Professional Services 2012; Construction *(if applicable)* N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

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.

4)
(1) TITLE AND LOCATION *(City and State)*
On-Call Engineering Services, AZ, *State Land Department on Tatum East-West (TEW) (also known as Azara).*

(2) Year Completed: Professional Services 2007; Construction *(if applicable)* N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

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.

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

[X] Check if project performed with current firm

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.

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

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
Alan O'Brien, PE	Civil Engineering - Water/Wastewater	1. TOTAL 37	2. WITH CURRENT FIRM 14

d. FIRM NAME AND LOCATION *(City and State)*

Gannett Fleming — Gannett Fleming, Inc., Phoenix, AZ

e. EDUCATION *(DEGREE AND SPECIALIZATION)*

BS / Civil Engineering

f. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

PE: Arizona - No. 37141 (2002)
PE: New Mexico - No. 7701 (1981)

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

Professional Affiliations: American Public Works Association (Education Committee, Arizona Chapter, 2008-present); American Water Works Association; Water Environment Federation; National Society of Professional Engineers; Valley Forward (Phoenix) (Water Committee, 2007-present); Arizona Water Association (Reuse Committee, 2008-present)

H. RELEVANT PROJECTS

1)

(1) TITLE AND LOCATION *(City and State)*
Desert Mountain Low-Level Odor Detection Investigations, Scottsdale, AZ, *Fennemore Craig*

(2) Year Completed

Professional Services	Construction *(if applicable)*
2012	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Project Manager and Lead Engineer responsible for a multiphase odor investigation project. Task 1 involved the installation of 0-50 part-per-million (ppm) hydrogen sulfide (H2S) sensors and flow-monitoring equipment in 11 manholes in Desert Mountain to monitor H2S propagation through the system. The odor data was plotted against sewer flows to identify potential contributing factors. Task 2 involved a month-long on-site study of airborne H2S using a handheld 0-2 ppm H2S sensor to track, isolate, and identify sources of above-ground H2S odors in the complex. The results of the two tasks included the comparison of the findings to odor investigations performed by others in a townhome.

2)

(1) TITLE AND LOCATION *(City and State)*
Emergency Repair of Canyon Water Supply Facilities, Tombstone, AZ, *City of Tombstone*

(2) Year Completed

Professional Services	Construction *(if applicable)*
2012	2012

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Project Manager and Senior Engineer for the preparation of a preliminary engineering report and environmental report to develop the conceptual design and funding request to repair the City's 24 springs and conveyance pipelines that were damaged during monsoon-driven debris flows as a result of the Monument Fire in the Huachuca Mountains in southeast Arizona. The springs provided a major portion of the City's water supply. The $2.4 million project repaired springs and pipelines that were installed in the 1880's during Tombstone's mining days.

3)

(1) TITLE AND LOCATION *(City and State)*
Solar Power Generating Station, Process Wastewater Evaporation Ponds and Bioremediation Facility Design, AZ, *Confidential Client*

(2) Year Completed

Professional Services	Construction *(if applicable)*
2013	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Task Leader overseeing the design of total-retention solar ponds to contain and evaporate the process wastewater from the cooling towers of a bioremediation facility and land farm to remediate soils contaminated with the heat transfer oil used by the parabolic collectors. The 25 acres of segmented wastewater ponds was designed to meet prescriptive best available demonstrated control technology for wastewater ponds with double-lining, leak containment and recovery systems. The bioremediation facility will remediate non-hazardous, mid-level contaminated soil and include a concrete pad containment structure and sprinkler system for maintaining soil moisture levels and distributing fertilizer to enhance the biodegradation process.

4)

(1) TITLE AND LOCATION *(City and State)*
Sunset Point Rest Area Wastewater Lagoon Evaporator Installation, AZ, *Arizona Department of Transportation*

(2) Year Completed

Professional Services	Construction *(if applicable)*
2011	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Project Manager/Senior Engineer for the development of a design memo and performance specifications for ADOT to implement maintenance work on the rest area's existing Wastewater Lagoon No. 2. The maintenance work included leveling the floor of the existing lagoon, replacing the discharge control valve(s), and reinstalling the existing evaporators. The design memo included an evaluation of the ability of the lagoon to retain the current and the 20-year design flows, and an evaluation of the lagoon volume and overflow pipe elevation

5)

(1) TITLE AND LOCATION *(City and State)*
Five-Year Water and Wastewater Utility Master Plan and Ultraviolet (UV) Disinfection Feasibility Study, Statewide AZ, *Arizona Department of Transportation*

(2) Year Completed

Professional Services	Construction *(if applicable)*
2010	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Project Engineer for a two-task project to update the Water and Wastewater Operations Section's existing five-year Master Plan and to complete a study to determine whether it was desirable and feasible to replace the existing rest area disinfection systems with UV disinfection systems. The Master Plan involved inspecting 17 rest areas in the state and performing field analyses on the condition and long-term viability of the equipment at each site. Water and wastewater equipment at the sites included potable water wells, pump houses, reservoirs, wastewater septic tanks, drain fields, evapotranspiration beds, and evaporation ponds. The feasibility study determined that installing UV disinfection in place of the existing liquid chlorine (sodium hypochlorite) systems at 14 rest area sites would be cost-effective, so UV systems were installed at each site. The fast-track project was completed within five months to meet ADOT fiscal-year funding requirements.

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

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
Karen C. Urban, PE	Civil Engineering - Transportation	1. TOTAL 19	2. WITH CURRENT FIRM 3

d. FIRM NAME AND LOCATION *(City and State)*

Gannett Fleming — Gannett Fleming, Inc., Phoenix, AZ

e. EDUCATION *(DEGREE AND SPECIALIZATION)*

BA / Mathematics

f. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

PE: Arizona - No. 41977 (2004)

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

Designing and Implementing Roundabouts, Arizona Department of Transportation, March 2005
Project Management Bootcamp, SPMJ Resources, Inc., 2005

H. RELEVANT PROJECTS

1)

(1) TITLE AND LOCATION *(City and State)*: **Greenway Parkway Bridge at Cave Creek Wash, Phoenix, AZ,** *City of Phoenix*

(2) Year Completed — Professional Services: Ongoing; Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Roadway and Traffic Engineer for the replacement of the bridge with box culverts and the replacement of the arterial roadway over the bridge. The project includes the demolition and staged reconstruction of a six-lane arterial with medians, sidewalks, and drainage structures. The bridge replacement involves the analysis and design of a culvert system to handle flows exceeding 14,000 cubic feet per second, at angles of more than 70 degrees from the Parkway. Responsibilities include the design of the roadway profile, traffic control, and maintenance of traffic on Greenway Parkway. Efforts include coordination with various disciplines and subconsultants.

2)

(1) TITLE AND LOCATION *(City and State)*: **S.R. 0095 Game Fencing, Mohave County, AZ,** *Arizona Department of Transportation*

(2) Year Completed — Professional Services: 2013; Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Project Manager for the design and placement of game fence along both sides of the 12-mile roadway segment of S.R. 0095 from Lake Havasu City to the I-40 interchange. The scope of work included the development of a scoping letter; the development of construction documents for game fence, goat bars, and elk jumps; and coordination with federal, state, and local agencies. Responsibilities included the management of the project and oversight of the preparation of the scoping letter and the coordination of plans, specifications, and the engineer's estimate.

3)

(1) TITLE AND LOCATION *(City and State)*: **Consolidated Canal Multiuse Path, Phase II, Mesa, AZ,** *City of Mesa*

(2) Year Completed — Professional Services: 2010; Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [ ] Check if project performed with current firm

Project Manager responsible for the preparation of construction documents for a multiuse path from 8th Street to Baseline Road along the Consolidated Canal. Facilities included lighting, pedestrian rest areas, and a gateway feature to the path system. Phase II was completed on a fast-track schedule to secure American Recovery and Reinvestment Act funding and is currently under construction.

4)

(1) TITLE AND LOCATION *(City and State)*: **U.S, Route 93, Deluge Wash, Mohave County, AZ,** *Arizona Department of Transportation*

(2) Year Completed — Professional Services: 2010; Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [ ] Check if project performed with current firm

Design Manager for 3 miles of new southbound roadway and 1.5 miles of reconstruction of the existing roadway for U.S. Route 93 north of Wikieup, Arizona. The project included two new bridges over Deluge Wash, extensive drainage improvements, wildlife connectivity, three crossovers for residential access, temporary connections to transition traffic to new roadway, contouring plans, right-of-way designation, environmental permitting and mitigation measures, and utility relocations.

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)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [ ] Check if project performed with current firm

Deputy Design Manager for the fast-track development of plans, specifications, and estimates (PS&E) to reconstruct I-10 between Prince and Ruthrauff Roads. The project would "flip-flop" I-10 from its current configuration as an overpass to an underpass at Prince Road. 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. In addition to design, significant environmental coordination was undertaken, as the project lay within the largest prehistoric cultural site in southern Arizona. The project included public meetings and individual business meetings to show property owners and residents the proposed improvements and to address access concerns during construction. This included continual coordination with the City of Tucson and Pima County.

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

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
Diana B. Kelly, PE	Civil Engineering - Transportation	1. TOTAL 17	2. WITH CURRENT FIRM 2

d. FIRM NAME AND LOCATION *(City and State)*

Gannett Fleming — Gannett Fleming, Inc., Phoenix, AZ

e. EDUCATION *(DEGREE AND SPECIALIZATION)*

BS / Civil Engineering

f. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

PE: Arizona - No. 46727 (2007)
PE: California - No. C-69727 (2006)

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

Professional Affiliations: American Society of Civil Engineers; American Society of Highway Engineers; Women's Transportation Seminar

H. RELEVANT PROJECTS

1)

(1) TITLE AND LOCATION *(City and State)*
Garden State Parkway Widening, Atlantic County, NJ, *New Jersey Turnpike Authority*

(2) Year Completed — Professional Services: 2013 — Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Project Engineer for the widening of the Garden State Parkway between Mileposts 38 and 41. The scope of work includes widening for 3 miles of the six-lane rural highway. The project involved the addition of one lane in each direction, shoulder reconstruction, geometric improvements to super-elevation, cross-slopes and acceleration and deceleration lanes, reconstruction of two ramps at the interchange with U.S. Route 30, six bridge widenings, coordination with the program manager and adjacent concurrent design projects, and slope analysis in regulated areas to eliminate additional impacts outside permitted areas. Responsibilities include roadway geometric design, grading, and earthwork modeling.

2)

(1) TITLE AND LOCATION *(City and State)*
Greenway Parkway Bridge at Cave Creek Wash, Phoenix, AZ, *City of Phoenix Street Transportation Department*

(2) Year Completed — Professional Services: 2013 — Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[ ] Check if project performed with current firm

Design Engineer for the preparation of design and construction documents for replacing the current bridge over Cave Creek Wash with a concrete box culvert. The replacement involved the analysis and design of a culvert system to handle flows exceeding 14,000 cubic feet per second, at angles of more than 70 degrees from the Parkway. The project also 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 services. The project also involved the demolition and staged reconstruction of a six-lane arterial with medians, sidewalks, and drainage structures. Responsibilities included roadway design, grading, construction phasing and fencing plans.

3)

(1) TITLE AND LOCATION *(City and State)*
Central Mesa Light Rail Extension Design-Build Services, Mesa, AZ, *Valley Metro Rail*

(2) Year Completed — Professional Services: 2012 — Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Project Engineer for the preliminary design of the 3.1-mile center-street running, double-track alignment extension of Valley Metro's existing light rail system through downtown Mesa. The scope of work included development of preliminary plans and alternative analysis for light rail extension, including four new stations, track work, traction power substations, roadway reconstruction, utility impacts, drainage impacts, analysis, and landscaping. Responsibilities included the evaluation of alternatives and coordination and preparation of preliminary project plans with the design-build contractor.

4)

(1) TITLE AND LOCATION *(City and State)*
44th Street Employee Parking Lot, Phoenix, AZ, *City of Phoenix Aviation Department*

(2) Year Completed — Professional Services: 2012 — Construction *(if applicable)*: 2012

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Design Engineer for the design of an 823-space employee parking lot located south of the PHX Sky Train™ station at 44th Street and Washington Street by the Phoenix Sky Harbor International Airport. The scope of work included project management, quality control, geotechnical and civil engineering, and Americans with Disabilities Act (ADA) compliance for this Construction Management At-Risk project. 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. Responsibilities included reviewing plans and preparing a design memorandum.

5)

(1) TITLE AND LOCATION *(City and State)*
S.R. 0095 Game Fencing, Mohave County, AZ, *Arizona Department of Transportation*

(2) Year Completed — Professional Services: 2013 — Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[ ] Check if project performed with current firm

Project Engineer for the design and placement of game fence along both sides of the 12-mile roadway segment of S.R. 0095 from Lake Havasu City to the I-40 interchange. The scope of work included the development of a scoping letter; the development of construction documents for 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. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (*Complete one Section 4 for each key person.)*

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
Steven W. Sherrill, PE	Structural Engineering - Bridges	1. TOTAL 26	2. WITH CURRENT FIRM 6

d. FIRM NAME AND LOCATION *(City and State)*

Gannett Fleming — Gannett Fleming, Inc., Phoenix, AZ

e. EDUCATION *(DEGREE AND SPECIALIZATION)*

BS / Civil Engineering

f. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

PE: Arizona - No. 44660 (2006)
P.E.: Maryland - No. 18894 (1991)
P.E.: Florida - No. 53422 (1998)

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

Leadership in Engineering Administration Program, American Council of Engineering Companies of Arizona

H. RELEVANT PROJECTS

1)

(1) TITLE AND LOCATION *(City and State)*
PHX Sky Train™ Facilities, 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 *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☐ Check if project performed with current firm

Structures Manager responsible for coordinating and supervising the design efforts for all structures related to the new automated train facility, which included work being done by multiple Gannett Fleming offices, as well as by several subconsultants. Duties also included coordinating responses to construction-phase issues and shop drawing submittals. The Stage 1 facility included several miles of elevated guideway and three station structures and involved crossing over a taxiway. The elevated guideway structures consist of a combination of trapezoidal, precast/prestressed-concrete beams; steel plate girders; trapezoidal, steel box girders; and trapezoidal, cast-in-place, post-tensioned, concrete box girders.

2)

(1) TITLE AND LOCATION *(City and State)*
Post-Design Services for the Widening of the Glendale Avenue Bridge over the New River, Glendale, AZ, *City of Glendale*

(2) Year Completed: Professional Services 2007; Construction *(if applicable)* 2007

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☐ Check if project performed with current firm

Senior Structural Engineer responsible for performing a quality assurance/quality control review of final bridge plans, responding to requests for information during construction, and reviewing shop drawings for the widening of an existing seven-span continuous, steel rolled-beam bridge. The widened portion of the bridge accommodates bicycle lanes along the widened portion of Glendale Avenue between 99th Avenue and 107th Avenue.

3)

(1) TITLE AND LOCATION *(City and State)*
Design of Traffic Signal and Sign Poles and Mast Arms, Yuma, AZ, *City of Yuma*

(2) Year Completed: Professional Services 2007; Construction *(if applicable)* N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☐ Check if project performed with current firm

Structural Engineer responsible for reviewing and assisting in the development of standard details for the City's new traffic signal and sign poles and mast arms.

4)

(1) TITLE AND LOCATION *(City and State)*
Post-Construction Inspection of the Avenue 6E Bridge over the Main "A" Canal, Yuma, AZ, *City of Yuma*

(2) Year Completed: Professional Services 2006; Construction *(if applicable)* N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☐ Check if project performed with current firm

Senior Structural Engineer responsible for performing a post-construction inspection of a new precast/prestressed-concrete adjacent box beam bridge to verify its general conformance to contract plans. Also prepared a written report documenting the results of the inspection and making repair recommendations.

5)

(1) TITLE AND LOCATION *(City and State)*
Final Design of the 124th Street Bridge over Lost Dog Wash, Scottsdale, AZ, *City of Scottsdale / Free Span Bridge Company*

(2) Year Completed: Professional Services 2006; Construction *(if applicable)* 2006

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☐ Check if project performed with current firm

Senior Structural Engineer responsible for performing structural calculations and a quality control review of the construction plans, specifications, and cost estimates for a two-span, rolled steel girder bridge option over Lost Dog Wash as part of a design-build project. Both the cast-in-place abutments and the pier were supported on drilled-shaft rock sockets designed for 100-year flood conditions.

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

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
Mark M. Pilwallis, PE	Structural Engineering - Bridge Inspection	1. TOTAL 24	2. WITH CURRENT FIRM 9

d. FIRM NAME AND LOCATION *(City and State)*

Gannett Fleming — Gannett Fleming, Inc., Phoenix, AZ

e. EDUCATION *(DEGREE AND SPECIALIZATION)*

BS / Civil Engineering

f. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

PE: Arizona (Civil) - No. 28174 (1994)
PE: Arizona (Structural) – No. 35227 (2000)
PE: Colorado - No. 39459 (2005)

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

Safety inspection of In-Service Bridges, National Highway Institute, 2005
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

[X] Check if project performed with current firm

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.

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)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Project Manager responsible for the final design of the PHX Sky Train, 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. The project is being developed in three stages. 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.

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

[X] Check if project performed with current firm

Project Manager responsible for the preliminary design development of the 5-mile-long PHX Sky Train system through existing airport facilities. The project involves 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. The project is being developed in two stages. Stage 1 is approximately 2 miles in length with three stations and was developed to a 30 percent design level. Stage 2 is approximately 3 miles in length with four stations and was developed to a conceptual design level.

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

[X] Check if project performed with current firm

Project Manager responsible for providing bridge inspection services to structures throughout the state. Services included in-depth routine and special inspections in accordance with NBI standards. Under the contract, our firm conducted three routine inspection task orders consisting of a total of 330 bridges in and around Phoenix. 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. Assignments included bridges over rivers, washes, and canals, as well as highway underpasses and overpasses. Our firm's services included checking for evidence of scour and erosion in channels, examining bank protection, and suggesting mitigation measures where needed.

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)*: 2008

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Project Manager responsible for the design of replacement options for a 60-foot-long, three-span slab bridge over the Grand Canal. Analysis using American Association of State Highway and Transportation Officials (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 (at $800,000) than total replacement (at $4 million). The bridge was also instrumented with a real-time monitoring system using strain sensors placed on the carbon FRP elements and concrete, making it the first "smart structure" in the state of Arizona.

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

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
Byron L. Dixon, PE	Civil Engineering - Site Development	1. TOTAL 25	2. WITH CURRENT FIRM 4

d. FIRM NAME AND LOCATION *(City and State)*

Gannett Fleming — Gannett Fleming, Inc., Phoenix, AZ

e. EDUCATION *(DEGREE AND SPECIALIZATION)*

BS / Civil Engineering
MS / Engineering and Environmental Management

f. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

PE: Arizona - No. 36372 (2001)

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

U.S.A.F. Lt. Colonel, Retired
Professional Affiliations: American Public Works Association; Society of American Military Engineers
Awards: Department of Defense Productivity Excellence Award, 2001, Pacific Air Force's Senior Civil Engineer Manager of the Year, 2000

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION *(City and State)*	(2) Year Completed	
		Professional Services	Construction *(if applicable)*
1)	**Maricopa Multi-Generational Center and Aquatics Facility,** *City Of Maricopa*	2013	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Senior Project Manager for 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.

	(1) TITLE AND LOCATION *(City and State)*	(2) Year Completed	
		Professional Services	Construction *(if applicable)*
2)	**Solar Power Plant, CA, Confidential Client**	Ongoing	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Assistant Civil Design Project Manager/Transportation Design Task Lead for the design of site and facility civil infrastructure for a 280 MW gross output solar electric generating facility on approximately 1,765 acres in an unincorporated area. Facilities on site include two operations buildings, a 60,000-square-foot warehouse and assembly facility, numerous process water tanks, containment berms, two turbine generators, and two power generation substations. Responsibilities include the development of a pavement condition analysis for public roads; design of temporary site layouts; design of tortoise fences, security fences, wind fences, and visual-barrier fences; design of on-site and off-site roadways, signage, and barriers; coordination with third-party utilities; and design production management.

	(1) TITLE AND LOCATION *(City and State)*	(2) Year Completed	
		Professional Services	Construction *(if applicable)*
3)	**Greenway Parkway Bridge at Cave Creek Wash, Phoenix, AZ,** *City of Phoenix*	2013	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Project Manager responsible for providing design and construction documents for replacing the current bridge over Cave Creek Wash with a concrete box culvert. The replacement involves the analysis and design of a culvert system to handle flows exceeding 14,000 cubic feet per second, at angles of more than 70 degrees from the Parkway. The project also includes 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 services. The project will involve the demolition and staged reconstruction of a six-lane arterial with medians, sidewalks, and drainage structures.

	(1) TITLE AND LOCATION *(City and State)*	(2) Year Completed	
		Professional Services	Construction *(if applicable)*
4)	**LRT-Impacted Properties Along the Northwest Extension, Phoenix, AZ,** *City of Phoenix*	2010	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

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 along 19th Avenue. Services included data collection, site visits, on-site utility coordination, meetings, and project assessments. The project assessments consisted of the site location, a description of site elements impacted by the modifications, design and permitting requirements, and plan types necessary for development of construction documents. The assessments also included cost estimates upon which to base the City's real estate acquisition and construction contracting budgets.

	(1) TITLE AND LOCATION *(City and State)*	(2) Year Completed	
		Professional Services	Construction *(if applicable)*
5)	**4th Street North Corridor Study, Flagstaff, AZ,** *City of Flagstaff*	2010	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

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. The study addressed community concerns about the corridor, such as traffic issues, pedestrian safety, urban design and beautification, and redevelopment.

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

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
Dean B. Durkee, PhD, PE	Dam Engineering	1. TOTAL 11	2. WITH CURRENT FIRM 12

d. FIRM NAME AND LOCATION *(City and State)*

Gannett Fleming — Gannett Fleming, Inc., Phoenix, AZ

e. EDUCATION *(DEGREE AND SPECIALIZATION)*

BS / Civil Engineering
MS / Geotechnical Engineering
PhD / Geotechnical Engineering

f. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

PE: Arizona - No. 35654 (2000)
California - No. 58457 (1998)
New Mexico - No. 16788 (2004)
Texas - No. 97828 (2006)
Wyoming - No. PE 11031 (2006)
Hawaii - No. PE-12616 (2007)
Nevada - No. 019350 (2008)
Montana - No. 18868 (2008)
South Dakota - No. 10339 (2010)
Oklahoma - No. 3709 (2011)
Colorado - No. PE 0047505 (2013)

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

Professional Affiliations: Association of State Dam Safety Officials (Dam Safety Program Peer Review Committee, 2011-present; Dam Safety Outreach Instructor, 2010-present) ; United States Society on Dams; American Society of Civil Engineers; Geo-Institute Committee on the Geotechnics of Soil Erosion, 2001-present

H. RELEVANT PROJECTS

1)

(1) TITLE AND LOCATION *(City and State)*
Tempe Town Lake Dam Replacement, Tempe, AZ, *City of Tempe*

(2) Year Completed
Professional Services: Ongoing
Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Principal/Project Manager for the evaluation and design for the replacement of the Tempe Town Lake downstream dam. The downstream dam consists of four 16-foot-high air-inflated rubber bladders, each approximately 240 feet long, anchored to a concrete foundation slab. 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 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. The design phase of the project will include performing site surveying; geotechnical investigation and analyses; conducting hydrologic, hydraulic, and structural analyses; preparing final construction plans and project specifications; and permitting.

2)

(1) TITLE AND LOCATION *(City and State)*
Saddleback Dam Mitigation, Maricopa County, AZ, *Flood Control District of Maricopa County*

(2) Year Completed
Professional Services: Ongoing
Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

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, beginning approximately 2 years after construction was completed. 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.

3)

(1) TITLE AND LOCATION *(City and State)*
PHX Sky Train™ Final Design, 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 *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

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 at the airport. 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. The geotechnical analyses were performed to provide recommendations for shallow and deep foundations, retaining walls, and embankment fills, as well as recommendations concerning pavement and utility considerations and conflicts with existing structures.

4)

(1) TITLE AND LOCATION *(City and State)*
White Tanks Flood-Retarding Structure (FRS) No. 4, Preliminary Design, Maricopa County, AZ, *Flood Control District of Maricopa County*

(2) Year Completed
Professional Services: 2008
Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Project Manager for the preliminary design to rehabilitate White Tanks FRS No. 4, which included the development of an upstream rehabilitation section to protect against internal erosion; the modification of the emergency spillways to safely pass the probable maximum flood and protect against surface erosion; 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.

5)

(1) TITLE AND LOCATION *(City and State)*
The Phoenician Ballroom Expansion, Scottsdale, AZ, Starwood Hotels and Resorts Worldwide, Inc.

(2) Year Completed
Professional Services: 2010
Construction *(if applicable)*: 2010

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Principal Geotechnical Engineer responsible for overseeing a geotechnical investigation and analysis for a proposed expansion of the ballroom at the main hotel of The Phoenician Resort. The project has included drilling soil and rock borings, performing laboratory tests, developing geologic mapping, and performing seismic refraction surveys.

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

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
John C. Niedzielski, PE	Geotechnical Engineering	1. TOTAL 28	2. WITH CURRENT FIRM 5

d. FIRM NAME AND LOCATION *(City and State)*

Gannett Fleming — Gannett Fleming, Inc., Phoenix, AZ

e. EDUCATION *(DEGREE AND SPECIALIZATION)*

BS / Civil Engineering

f. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

PE: Arizona - No. 39941 (2003)
PE: Michigan – No. 6201034595 (1989)
PE: California - No. 81000 (2013)

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

Professional affiliations: American Society of Civil Engineers; Blue Key National Honor Fraternity; Tau Beta Pi Engineering Honor Society

H. RELEVANT PROJECTS

1)

(1) TITLE AND LOCATION *(City and State)*
Transit Maintenance and Administration Facility Design-Build Services, Fort Defiance, AZ, *Navajo Transit System*

(2) Year Completed
Professional Services: 2011
Construction *(if applicable)*: 2012

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

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 that includes building areas for maintenance, operations, administration and parts, and automobile and bus parking. 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. The project includes the design of a new pre-engineered 12,500-square-foot administration and maintenance facility on a 4.5-acre site, which is complemented by fuel and wash facilities and bus staging for the current and future fleet. The facility will include a two-level structure with four maintenance bays, support shops, parts storage, a dispatch area, and an administration area mezzanine to house the NTS staff

2)

(1) TITLE AND LOCATION *(City and State)*
Church Road and Eco-Museum Road, Pinal County, AZ, *Ak-Chin Indian Community*

(2) Year Completed
Professional Services: 2011
Construction *(if applicable)*: 2012

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

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.

3)

(1) TITLE AND LOCATION *(City and State)*
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 *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

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. Stage 1 involves approximately two miles of elevated and at-grade guideway with three station structures and a signature bridge over Taxiway R. Stage 2 includes approximately three miles of additional elevated guideway with four station structures and involves crossing under two taxiways.

4)

(1) TITLE AND LOCATION *(City and State)*
The Phoenician Ballroom Expansion, Scottsdale, AZ, *Starwood Hotels and Resorts Worldwide, Inc.*

(2) Year Completed
Professional Services: 2010
Construction *(if applicable)*: 2010

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Senior Geotechnical Engineer responsible for geotechnical investigations and engineering for the expansion of the Ballroom and loading dock area at The Phoenician Resort. The site of the ballroom expansion was on the northeast end of the main hotel adjacent to the original ballroom. The impacts of the proposed facility on the existing improvements were considerable, including impacts to drainage, utility, roadway, a golf course, and other infrastructure. Responsibilities involved overseeing the geotechnical investigation, which included drilling soil and rock borings; overseeing the laboratory testing; developing geologic mapping; performing seismic refraction surveys for the proposed expansion; and design of a soil nail retaining wall in the loading dock area.

5)

(1) TITLE AND LOCATION *(City and State)*
U.S. Route 70, Gila River Bridge Replacement Design Concept Report (DCR) and Final Design, Bylas, AZ, *Arizona Department of Transportation*

(2) Year Completed
Professional Services: 2010
Construction *(if applicable)*: 2013

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Lead Geotechnical Engineer for both phases of the project. The first phase involved a DCR and environmental documentation, and the second phase involved the final design for the replacement of the bridge. The existing 1,829-foot-long steel girder bridge is nearing the end of its service life and has several deficiencies in the superstructure and substructure that warrant its replacement. Services involved preparing a memorandum summarizing previous geotechnical information collected from geotechnical investigations performed at and near the bridge, as well as the original bridge plan soil-boring data from the 1950s. In addition, a geotechnical investigation was performed for the proposed bridge and roadway approaches. The geotechnical investigation included 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. The two reports provided recommendations for site earthwork; shrinkage; ground compaction; constructed slopes; site drainage; bridge foundation recommendations, including type, depths, and capacity; and earth pressure recommendations for abutments and wingwalls. The preparation of the foundation recommendations was challenging due to the significant amount (59 feet to 69 feet) of predicted scour of the river channel.

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

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
A. Frances Ackerman, PG, P.E.	Geotechnical Engineering - Geology	1. TOTAL 20	2. WITH CURRENT FIRM 5

d. FIRM NAME AND LOCATION *(City and State)*

Gannett Fleming — Gannett Fleming, Inc., Phoenix, AZ

e. EDUCATION *(DEGREE AND SPECIALIZATION)*

BS/Geology and Environmental Health
MSE/Civil (Geotechnical) Engineering

f. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

PG: Arizona - No. 40473 (2004)
PE: Arizona - No. 52270 (2011)

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

Professional Affiliations: American Society of Civil Engineers; Association of Environmental and Engineering Geologists
Presentations/Publications: Durkee, D.B., M.L. Rucker, D.E. Smith, and A.F. Ackerman. "Role of Practical Geophysics in In-situ Characterization for Underground Construction in Phoenix, Arizona." Proceedings of the 4th International Conference on Unsaturated Soils, Carefree, AZ, April 2006.

H. RELEVANT PROJECTS

1)

(1) TITLE AND LOCATION *(City and State)*: **Tempe Town Lake Dam Replacement, Tempe, AZ,** *City of Tempe*

(2) Year Completed — Professional Services: Ongoing; Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Task Manager/Senior Geotechnical Engineer for the evaluation and design for the replacement of the Tempe Town Lake downstream dam. The downstream dam consists of four 16-foot-high air-inflated rubber bladders, each approximately 240 feet long, anchored to a concrete foundation slab. Gannett Fleming is assisting the City to provide the best possible downstream dam replacement option. 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.

2)

(1) TITLE AND LOCATION *(City and State)*: **Transit Village Preliminary Geotechnical Investigation, El Monte, CA,** *El Monte Community Redevelopment Agency*

(2) Year Completed — Professional Services: 2010; Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Project Manager and Geotechnical Engineer for the preliminary geotechnical evaluation of a 22-acre site. Site development is planned to consist of 650 housing units, 125,000 square feet of retail space, and 4 acres of outdoor public open space. Responsibilities included overseeing the field investigation and laboratory testing, performing engineering analyses, conducting a preliminary seismic hazard assessment screening, providing recommendations for site development, and preparing the preliminary geotechnical investigation report.

3)

(1) TITLE AND LOCATION *(City and State)*: **U.S. Route 70, Gila River Bridge Replacement Design Concept Report and Final Design, Bylas, AZ,** *Arizona Department of Transportation*

(2) Year Completed — Professional Services: 2013; Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Project Geotechnical Engineer for the second phase of a bridge project, which includes the final design for the replacement of the bridge. The existing 1,829-foot-long steel girder bridge is nearing the end of its service life and has several deficiencies in the superstructure and substructure that warrant its replacement. 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.

4)

(1) TITLE AND LOCATION *(City and State)*: **U.S. Route 70, Gila River Bridge Demonstration Drilled Shaft and Static Load Test, Bylas, AZ,** *Arizona Department of Transportation*

(2) Year Completed — Professional Services: 2010; Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

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 to a depth of 115 feet; interpreting the results of test shaft integrity testing done through sonic caliper, gamma, and cross-hole sonic logging; designing the bidirectional static load test using 3 Osterberg load cells (O-cells) provided by LOADTEST and 36 strain gages; interpreting the load test results; updating the bridge foundation recommendations; and preparing a demonstration drilled shaft and static load test report.

5)

(1) TITLE AND LOCATION *(City and State)*: **Saddleback Dam Mitigation, Maricopa County, AZ,** *Flood Control District of Maricopa County*

(2) Year Completed — Professional Services: Ongoing; Construction *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Project Manager and Project Geotechnical Engineer for the rehabilitation of an embankment 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, beginning approximately two years after construction was completed. Responsibilities included reviewing the pertinent data for the dam and preparing a comprehensive geotechnical assessment report, overseeing the field investigation and laboratory testing, developing rehabilitation concepts for the dam, performing geotechnical engineering analyses to evaluate the rehabilitation concepts, participating in a Failure Modes and Effects Analysis and selection process for the recommended alternative, and preparing a geotechnical investigation report and a design concept report.

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

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

a. TITLE AND LOCATION *(City and State)*	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
PHX Sky Train™, East Economy Lot Toll Plaza, Phoenix, Arizona	2010	2010

23. PROJECT OWNER'S INFORMATION

c .PROJECT OWNER	d .DOLLAR AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
City of Phoenix, Aviation Department	$76,000	$6,000, 000

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

Gannett Fleming was responsible for the structural analysis and design of the complete structure and the management of construction services, including inspection and submittals. The project included a single-story, 2,560-square-foot building for the administration of a toll plaza, monitoring of the parking entry and exit, and enclosure of instrumentation equipment. The project also included a 1,230-square-foot entry canopy and a 7,620-square-foot exit canopy for toll collection. The building features Leadership in Energy and Environmental Design (LEED) certification, as well as an insulated concrete form wall system, a wide-flange beam roof, and wraparound windows free of corner columns for the monitoring booth.

For more than 10 years, Gannett Fleming's NSB Structural Group has provided structural design and construction phase support (construction administration and inspection) for all of the phases of the East Economy Parking Garage at Phoenix Sky Harbor International Airport, beginning with the original Master Plan and Phase 1 of design and construction. The East Economy Lot Parking Structure, Phase II, a $36 million, six-story garage containing 3,600 parking stalls, was the first to use the Construction Management At-Risk procurement method for the City of Phoenix.

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

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

a. TITLE AND LOCATION *(City and State)*	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Horseshoe Falls Pump Station, Scottsdale, Arizona	2008	2008

23. PROJECT OWNER'S INFORMATION

c .PROJECT OWNER	d .DOLLAR AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
City of Scottsdale	Design fee $73,694, Construction Admin fee $27,400	$6, 000, 000

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

Our firm was responsible for various aspects of the structural design of this pump station, including: Design of waterlines along Indian School Rd; 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 provided has received several industry awards.

For the improvement 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.

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

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

a. TITLE AND LOCATION *(City and State)*	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Maricopa Multi-Generational Center and Aquatics Facility, *City of Maricopa*	N/A (2014)	N/A (2014)

23. PROJECT OWNER'S INFORMATION

c .PROJECT OWNER	d .DOLLAR AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
City of Maricopa	$187,717 (fee)	$11,000,000 (estimated)

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

As a sub-consultant 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 includes 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 includes 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 flood-plain. 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.

Construction of the facility is expected to be completed in the spring of 2014. Gannett Fleming is providing 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 sub consultant 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.

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

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

a. TITLE AND LOCATION *(City and State)*	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Maricopa County Central Courts Building Elevator Modernization	On-Going	N/A

23. PROJECT OWNER'S INFORMATION

c .PROJECT OWNER	d .DOLLAR AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Maricopa County Facilities Management	$210,000	$2,870,000

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 Sub-Consultants and their Design
  - Architects
  - Electrical and Fire
  - Mechanical
- Plan Review
- Bid Procurement Assistance Services
  - Attended Pre-Bid Meeting and Walkthrough
  - Responded to RFI's
  - Issued Addenda
- Construction Administration Services
  - Responding to RFI's
  - Review of Shop Drawing Submittals
  - Performing Progress Inspections
  - Attending Progress meetings
  - Performing Commissioning Inspections and Testing
  - Project Closeout Documentation

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

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

a. TITLE AND LOCATION *(City and State)*	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Bridge Program Asset Management Services Cycle "A" for Year 2013-2014	N/A	N/A

23. PROJECT OWNER'S INFORMATION

c .PROJECT OWNER	d .DOLLAR AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
City of Phoenix Street Transportation Department	$891,301	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, clearance report for structures over roadways, channel profile, load 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 sub consultant 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 elements, performing 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.

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: Ronald D Schreier Date: 12-12-2013

Name: Ronald D. Schreier, P.E. Title: 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 local 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 the Arizona State Land Department (ASLD) and the Arizona Department of Transportation (ADOT).

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 Urban, 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.

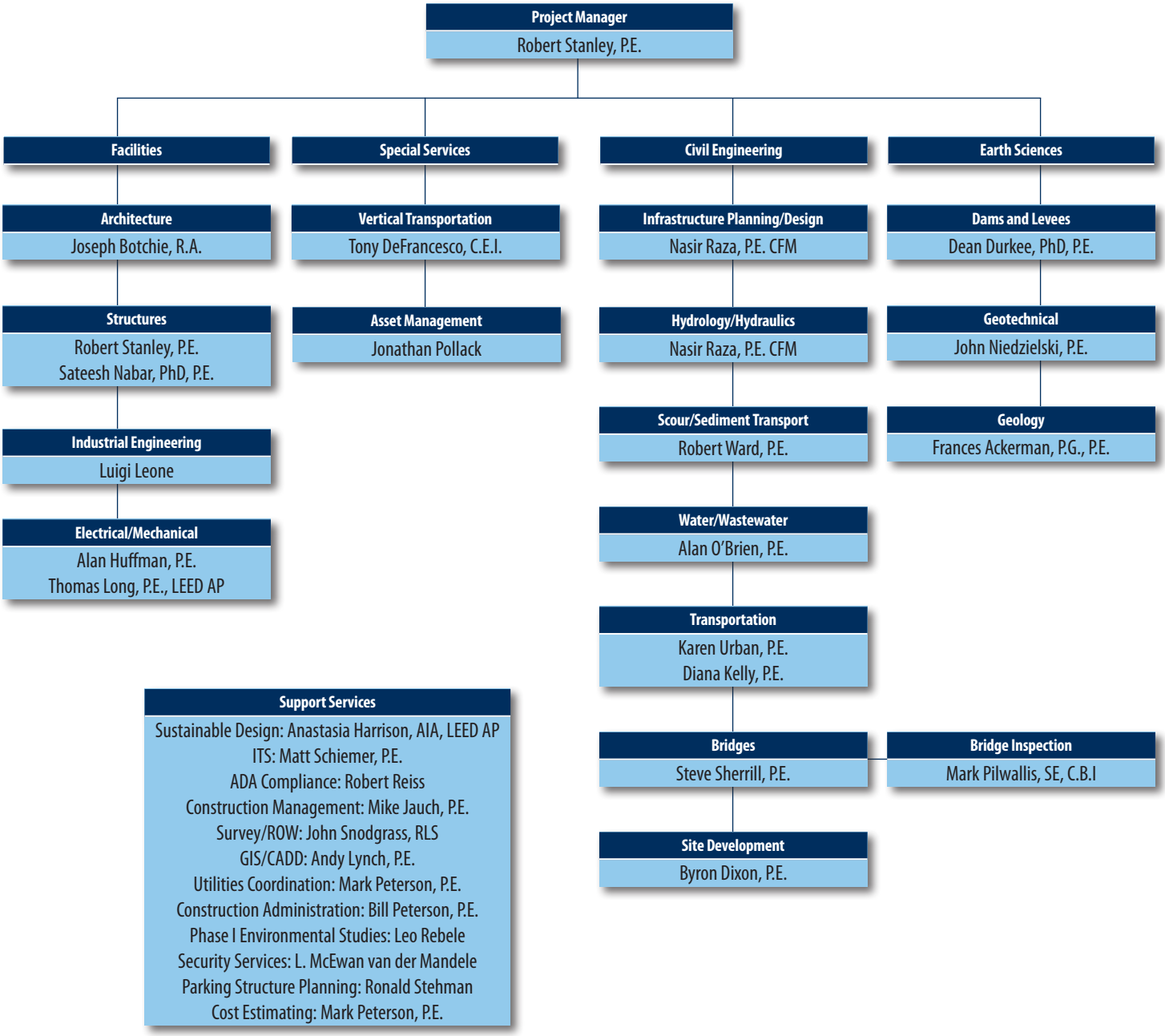
The Quality Approach

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.


Project Manager
Robert Stanley, P.E.
Facilities
Special Services
Civil Engineering
Earth Sciences
Architecture
Joseph Botchie, R.A.
Vertical Transportation
Tony DeFrancesco, C.E.I.
Infrastructure Planning/Design
Nasir Raza, P.E. CFM
Dams and Levees
Dean Durkee, PhD, P.E.
Structures
Robert Stanley, P.E.
Sateesh Nabar, PhD, P.E.
Asset Management
Jonathan Pollack
Hydrology/Hydraulics
Nasir Raza, P.E. CFM
Geotechnical
John Niedzielski, P.E.
Industrial Engineering
Luigi Leone
Scour/Sediment Transport
Robert Ward, P.E.
Geology
Frances Ackerman, P.G., P.E.
Electrical/Mechanical
Alan Huffman, P.E.
Thomas Long, P.E., LEED AP
Water/Wastewater
Alan O'Brien, P.E.
Transportation
Karen Urban, P.E.
Diana Kelly, P.E.
Support Services
Sustainable Design: Anastasia Harrison, AIA, LEED AP
ITS: Matt Schiemer, P.E.
ADA Compliance: Robert Reiss
Construction Management: Mike Jauch, P.E.
Survey/ROW: John Snodgrass, RLS
GIS/CADD: Andy Lynch, P.E.
Utilities Coordination: Mark Peterson, P.E.
Construction Administration: Bill Peterson, P.E.
Phase I Environmental Studies: Leo Rebele
Security Services: L. McEwan van der Mandele
Parking Structure Planning: Ronald Stehman
Cost Estimating: Mark Peterson, P.E.
Bridges
Steve Sherrill, P.E.
Bridge Inspection
Mark Pilwallis, SE, C.B.I
Site Development
Byron Dixon, P.E.

Gannett Fleming

*Excellence Delivered **As Promised***

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

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Building Information Modeling

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.

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

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 TrainTM 44th Station, Phoenix, AZ

Tempe Town Lake Dam, Tempe, AZ

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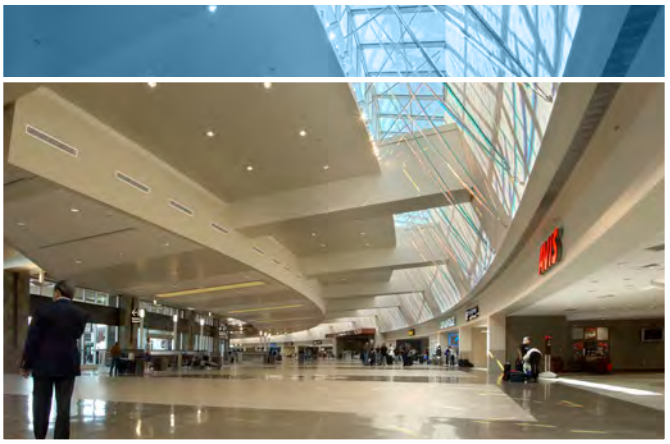
NSB Group of Gannett Fleming Structures

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.

Lake Pleasant Water Treatment Plant



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

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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

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

Types of Projects

- 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
- Residential developments
- Traditional neighborhoods
- Retirement/assisted living facilities
- Recreational (parks, trails, golf courses)
- Cluster developments
- Resorts

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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.

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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 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.

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

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)

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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, undisrupted 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)

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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.

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

Photo courtesy of Hensel Phelps

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

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

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Dams and Geotechnical Engineering

Hawaii Phase I Investigations - State of Hawaii, DLNR

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.

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

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Drainage and Hydraulics/Hydrology

White Tanks Flood Retarding Structure No. 4
City of Scottsdale

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

Pyramat Reinforced Banks

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

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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

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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.

Incident and Emergency Management Session - ITS Arizona

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)

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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

GeoDecisions
A Division of Gannett Fleming

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.

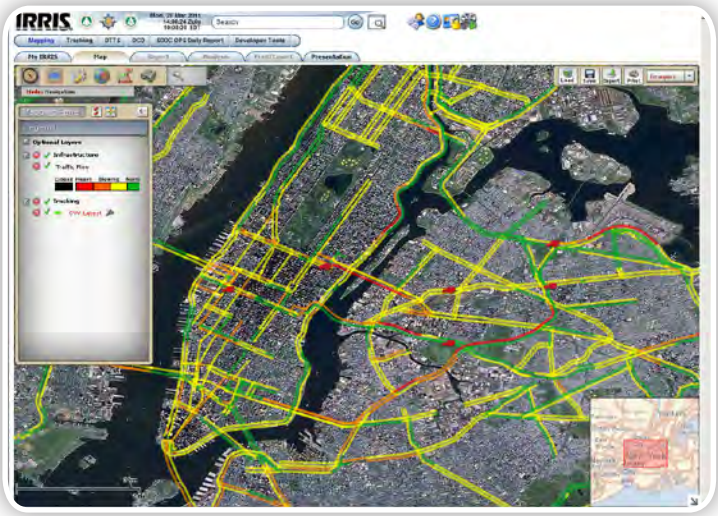
GeoDecisions' experienced professionals have achieved advanced degrees, earned industry-specific certifications, and consistently receive the latest technology training to aid in building superior applications. Our sophisticated combination of talent provides us with the vision to identify and mitigate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

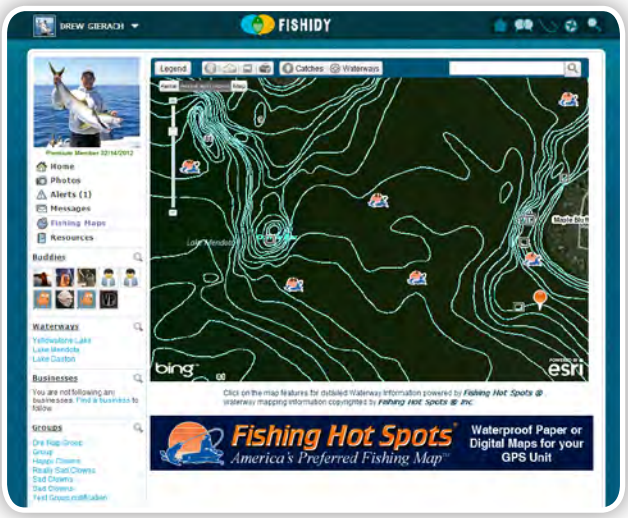
The Power of GIS

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





(866) 426-6388 | www.geodecisions.com | info@geodecisions.com

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

VTX® vertical transportation excellence

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.

VTX®
vertical transportation excellence

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www.vtexcellence.com

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