

7. Brief resume of key persons, specialists, and individual consultants anticipated for this project.

<p>a. Name & Title: Jan M. Harris, PE</p>	<p>Mr. Harris is proficient in the design of steel, concrete, masonry and timber structures. His federal agency experience includes work for the Army, Navy, Air Force, Coast Guard and NASA. He has worked for state, municipal and private clients on a wide variety of new construction, renovation and repair projects. He has successfully designed or managed over 250 federal design projects. He has participated in over 50 Indefinite Quantity Contracts including Structural, Civil/Structural, Mechanical/Electrical and Architectural.</p>
<p>b. Project Assignment: Structural Engineer</p>	<p>He has completed several federal design projects using metric units.</p>
<p>c. Name of Firm with which associated: LIBERTY ENGINEERING, P. C.</p>	<p>Relevant Project Experience:</p>
<p>d. Years experience: With This Firm: 5 With Other Firms: 17</p>	<ul style="list-style-type: none"> • Pump Station, Fort Eustis: Architectural and Structural design of a 3 MGD sewage lift Station for HRSD.
<p>e. Education: Degree(s) / Year / Specialization</p> <p>Master of Engineering, 1993, Old Dominion University, Norfolk, Virginia, Structural Engineering Emphasis</p> <p>Bachelor of Science, 1978, School of Civil and Environmental Engineering Cornell University, Ithaca, New York</p> <p>Engineer Officer Advanced Course 1982; Basic Course 1978; Airborne School, 1977; U. S. Army Corps of Engineers</p>	<ul style="list-style-type: none"> • Wind Tunnel Modifications, NASA Langley Research Center: Structural design of supports for high pressure piping and ductwork. Analysis of existing structures to support new piping and ductwork. • LARC Washrack, Fort Story, Virginia: Architectural and structural design for a 500 square foot equipment enclosure, structural design of oil, water and grit separators, pavement design for 100 ton, four-wheeled vehicle.
<p>f. Active Registration: Year First Registered/Discipline/Certificate Number 1982 Virginia Professional Engineer 13755</p> <p>Other PE Licenses: North Carolina, Maryland, Pennsylvania, New York, West Virginia</p>	<ul style="list-style-type: none"> • Radome Foundation and Entry, USAF Lajes Field, Azores: Structural design of concrete foundation and retaining walls to support fiberglass radar dome. Designed entrance stairwell and roof to mitigate site conditions. • Third Port, Oily Waste Storage Tank: Structural design of foundation and containment structure for peak demand storage tank and pump equipment.
<p>g. Other Experience and Qualifications relevant to the proposed project:</p> <p>Employment History: 1994-1995 Senior Structural Engineer, McPherson & Associates, Portsmouth, Virginia 1993-1994 Senior Structural Engineer, Sverdrup Technology, Hampton, Virginia 1985-1993 Structural Engineer and Associate, The CEGG Partnership, Virginia Beach, Virginia 1978-1985 Commissioned Officer US Army Corps of Engineers</p> <p>Continuing Education: Virginia Engineers Conference, 9/97, 9/98 BOCA Special Inspections Seminar, 12/96 Masonry Design Seminar, 5/96 NDS, Wood Engineering Seminar, 4/96 AISC Steel Bracing Design Seminar, 1/99</p> <p>ASCE Fellow, VSPE Member, ECHR President, 1996</p>	<ul style="list-style-type: none"> • River Water Filtration Plant, Indian Head, MD: Structural design of foundations and tanks for new water treatment plant. • Coal Handling Facility Modifications, Indian Head, Maryland: Evaluated existing structure and prepared design-build proposal documentation for renovation of existing coal handling facilities. Project included providing an alternate coal conveyance to the skip hoist. • Federal Design Projects: Provided project management or structural engineering for the following projects: <ul style="list-style-type: none"> • Landship Foundation Repairs, Fort Eustis • Landship Superstructure Modifications • Landship Modifications Feasibility Study • Truss Repairs, Building H-9, Norfolk Naval Base • Provide Locker Room, LP-12. Norfolk Naval Base • Aviation Maintenance Repairs, Oceana Naval Air Station

7. Brief resume of key persons, specialists, and individual consultants anticipated for this project.

<p>a. Name & Title: Glenn C. Otto, PE</p>	<p>Mr. Otto is experienced in the design of steel, aluminum, concrete, masonry and timber structures. His federal agency experience includes work for the Army, Navy, Marines. He has worked for industrial, state, municipal and</p>
<p>b. Project Assignment: Structural Engineer</p>	<p>private clients on a wide variety of new construction, renovation and repair projects. He has successfully designed or managed over 25 federal design</p>
<p>c. Name of Firm with which associated: LIBERTY ENGINEERING, P. C.</p>	<p>projects. He has participated in several Indefinite Quantity Contracts including Structural, Civil/Structural, Mechanical/Electrical and Architectural.</p>
<p>d. Years experience: With This Firm: 2 With Other Firms: 17</p>	<p>He has completed federal design projects using metric units and is familiar with federal design standards.</p>
<p>e. Education: Degree(s) / Year / Specialization Bachelor of Science, 1981, Civil Engineering, University of Florida, Gainesville, Florida</p>	<p>Relevant Project Experience, Structural Design and Analysis:</p> <ul style="list-style-type: none"> • Landship Foundation Repairs, Fort Eustis: Concrete and Pile Repairs • Sea Sparrow Directors and Radar Platform, Dam Neck: Steel platform above existing roof. • Reroofing Bldgs 2112,3132, 2150,2151 Stump Neck Annex, Indian Head, MD Analysis for new roof loads. • Hangar Door Replacement, Quantico, Virginia: Concrete repairs and door replacement at five hangars • BOQ 460, Oceana NAS: Elevator and stairwell addition • BEQ U-20, Norfolk Naval Base: Elevator and stairwell addition • Building 596, Langely AFB: New construction, concrete and masonry structure. • Autoclave Addition, Building 137, Camp Lejeune, NC: Concrete foundation, steel platform
<p>f. Active Registration: Year First Registered/Discipline/Certificate Number 1988 South Carolina / Professional Engineer / #12351 1999 Virginia / Professional Engineer / #33327</p>	<ul style="list-style-type: none"> • Water Filtration Plant Repairs, Puerto Rico: Miscellaneous Concrete repairs and tank foundation • Savannah River Site, Department of Energy Projects: <ul style="list-style-type: none"> • Platforms: Two and three story equipment platforms on concrete storage tanks. • Shipping Cask: Ten foot diameter by forty foot long transport container for nuclear contaminated pump. • Shipping Container: Concrete lined, stainless steel encased container for shipping contaminated materials. • Pipe Rack and Steel Supports: For various HVAC, mechanical and electrical equipment.
<p>g. Other Experience and Qualifications relevant to the proposed project: Employment History: 1998- Present, Senior Structural Engineer Liberty Engineering, PC, Virginia Beach, Virginia 1995-1998 Senior Structural Engineer, McPherson & Associates, Portsmouth, Virginia 1991-1995 Senior Civil/Structural Engineer, Bechtel Savannah River, Inc., Aiken, South Carolina 1988-1991 Chief Engineer, Sam Malone & Associates, Matthews, North Carolina 1981-1988 Engineer, Duke Power Company, Charlotte, North Carolina</p>	<ul style="list-style-type: none"> • Fender Replacement, Berths 38 to 41, Norfolk Naval Shipyard, Portsmouth, Virginia • 3000 HP Fan Replacement, Newport News Shipbuilding • Lifting Frame, Newport News Shipbuilding

8. Work by firm or joint-venture members which best illustrates current qualifications relevant to this project (list not more than 10 projects)

	a. Project Name & Location	b. Nature of Firm's Responsibility	c. Project Owner's Name & Address and Project Manger's Name and Phone Number	d. Completion Date (actual or estimated)	e. Estimated Cost (in thousands)	
					Entire Project	Work for which Firm was/is responsible
1 C	Sewage Pump Station Fort Eustis, Virginia	Structural design of a 3 MGD sewage pump station as a consultant to URS Greiner Woodward Clyde. The station and associated force main allowed the post to become an HRSD customer. The station required an appearance similar to an adjacent historic property. Building structure included masonry walls with and exterior brick wythe. Depth of structural excavation required was in excess of twenty feet. The station has a wet and dry well with pumps and motors at the bottom of the dry well. Liberty Engineering contributed to production of the contract documents with architectural and structural design of the wet and dry wells, building structure and valve vault.	Hampton Roads Sanitation District (HRSD) c/o Mike Barbachem, PE URS Greiner Woodward Clyde (757) 499-4224	1999	1,000	500
2 IE	Master Water Meter Modernization Norfolk, Virginia Beach and Chesapeake, Virginia	Provided project management and structural engineering services for modern meter installations at 40 sites in three localities. Designed concrete vaults with OSHA compliant entrances and clearances to replace existing meter pits. New digital, telemetric meter reading capability was added to each water meter. Remote sites report via modem to central treatment plant. Provided meters in former bypasses to monitor all flow. Prototype vaults were created for constant traffic, occasional traffic and non traffic conditions. Prototypes were site adapted to each location.	Norfolk Department of Utilities 400 Granby Street Norfolk, VA 23510 Contact: Kerry Graham (804) 664-6701	1996	2500	2500
3 IE	Repair HVAC, Building 72 Anacostia Naval Air Station	Provided structural design for pump house for new chilled water pumps. This project was a task order on an indefinite quantity mechanical-electrical design contract.	Public Works Office NAS Anacostia, Virginia Contact: Don Williams Bowman, Foster and Associates (757) 499-5921	1995	3000	300

8. Work by firm or joint-venture members which best illustrates current qualifications relevant to this project (list not more than 10 projects)

	a. Project Name & Location	b. Nature of Firm's Responsibility	c. Project Owner's Name & Address and Project Manger's Name and Phone Number	d. Completion Date (actual or estimated)	e. Estimated Cost (in thousands)	
					Entire Project	Work for which Firm was/is responsible
4 IE	Maintenance Platforms Blackwater and Nottaway Pumping Stations Blackwater and Nottaway Rivers	Designed OSHA compliant elevated platforms with ladders, climbing devices and safety railings for access to ventilation equipment in raw water pumping stations. Existing equipment considerations led to a the solution of spanning the entire width of the facility, about 30 feet. Beam splices and reduced height bearings were provided to ease installation and fit existing conditions.	Norfolk Department of Utilities 400 Granby Street Norfolk, VA 23510 Contact: Greg Williams (757) 664-6701	1995	20	20
5 IE	Heating, Ventilation and Lighting Improvements, Building 32 Buoy Spray Paint Facility, USCG Yard Curtis Bay Baltimore, Maryland	Designed structural supports for roof mounted ductwork, spray paint ventilation filter banks and exterior structural support for air handler. This project was a task order from an indefinite quantity design contract.	USCG Facilities Design and Construction Center 5505 Robin Hood Road Suite K Norfolk, VA 23513 Contact: Jim Bray, PE (757) 858-6253	1996	400	50
6 IE	Boiler Replacements Buildings 583 and 658 Langley Air Force Base Hampton, Virginia	Designed two building additions to house new gas-fired boilers. Buildings were masonry and brick walls with steel joist and deck roof framing. Roof framing designed for piping loads.	Base Civil Engineering Langley Air Force Base Hampton, Virginia Contact: Jim Wampler or Willie Williams (804) 764-2033	1996	1000	200
7 C	Mechanical-Electrical Support for ME Engineering Contract Newport News Shipbuilding, Newport News, Va	Structural engineering to analyze existing structures for new mechanical units. Included Replacement of 3000 HP exhaust fan in paint facility, Renovation of Administrative Offices and Ventilation Improvements	Newport News Shipbuilding c/o Spiers and Waltz Hampton, VA Contact: Harry Baylor, PE (757) 722-7074	2001	800	200
8 C	Diamond Springs Road Sewage Pump Station Virginia Beach, Virginia	Structural design of a 3 MGD sewage pump station as a consultant to CEGG. Liberty Engineering contributed to production of the contract documents with structural design of the wet and dry wells and building structure. Depth of structural excavation required was in excess of twenty five feet.	c/o Allan Gonyo, PE CEGG Associates, LLC 4425 Corporation Lane Virginia Beach, VA 23462 (757) 499-4562	2000	900	300