

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Alan N. Watt, PE, LEED AP BD+C, BCxP, FSAME		13. ROLE IN THIS CONTRACT Principal		14. YEARS EXPERIENCE	
				a. TOTAL 45	b. WITH CURRENT FIRM 5
15. FIRM NAME AND LOCATION <i>(City and State)</i> A. N. Watt Consulting Engineers, LLC, Orange Park, FL					
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Master of Science/Engineering Management, Florida (2002) Bachelor of Science/Engineering Technology, Construction Management, Oklahoma State (1975)			17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Fire Protection and Mechanical Engineer, FL (No. 41587), CA (No. M 26493), GA (No. 26427), MS (No. 14122), NC (No. 021036), OK (No. 13250), TX (No. 60863), VA (No. 045459) NCEES (No. 13171) LEED AP Building Design and Construction Building Commissioning Professional		
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Member of ASHRAE, National Council of Examiners for Engineering & Surveying, National Fire Protection Association, Society of American Military Engineers (Fellow) and Society of Fire Protection Engineers (Professional Member). Mr. Watt has more than 40 years' experience as a program/contract manager, project manager, design engineer and mechanical contractor. The last 25 years have been focused on providing a wide range of planning and design services, including development of force protection plans, Design-Build RFP documents, fire protection consulting, commissioning and complete facility designs for the Navy, Air Force and Army.					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION <i>(City and State)</i> Reach Back Fire Protection Engineering Support for LOGCAP IV <i>Afghanistan</i>		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If Applicable)</i> N/A	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
Fire Protection Engineer. Performed fire protection and life safety reviews of existing buildings at Kandahar AFB, Shorab Annex and TB Dwyer to meet the requirements of DoDI 6055.06 and establish parameters for future remodel or refurbishment projects. Submitted reports on 99 different buildings (not including relocatable containerized facilities) of all different sizes, construction and uses. Each report included determinations of occupancy, size and area, separation, required fire protection systems and recommendations for compliance based on the UFCs, IBC, NFPA and local standards. Size: varied from 160 to 42,000 SF; Cost: UNK.					
b.	(1) TITLE AND LOCATION <i>(City and State)</i> Reach Back Fire Alarm Engineering Support for LOGCAP IV <i>Afghanistan</i>		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If Applicable)</i> N/A	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
Fire Protection Engineer. Performed fire alarm system reviews and design layouts for the refurbishment of existing buildings at Kandahar AFB, Camp Shorab and TB Dwyer in accordance with UFC 3-600-01 and NFPA 72. System design layouts were submitted on 116 different buildings of all different sizes, construction and uses. Layouts included detection devices, notification appliances, fire alarm panels and system peripherals, material take offs and Basis of Estimate input, all based on space occupancy and usage. Size: Varied 160 to 42,000 SF; Cost: UNK.					
c.	(1) TITLE AND LOCATION <i>(City and State)</i> Reach Back Fire Suppression Engineering Support for LOGCAP IV <i>Afghanistan</i>		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If Applicable)</i> N/A	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		

	<p>Fire Protection Engineer. Performed fire suppression system reviews and design layouts for the refurbishment of nine existing buildings at Kandahar AFB, Camp Shorab and TB Dwyer in accordance with UFC 3-600-01 and NFPA 13, 14 and 72. Performed analysis of DFAC and barracks buildings, identified different hazard spaces, determined type of fire suppression system required and riser locations, and prepared estimated water flow and pressure requirements, . Prepared design for site supply including piping design and routing, storage tanks, packaged fire pump systems, emergency power systems. For warehouses, evaluated existing sprinkler and fire alarm systems and prepare a scope of work to recommission the systems and return them to service. For JOC, developed scope and layout for an FM-200 clean agent system for protection of the server room. Deliverables included drawings, technical specifications, narratives and material take-offs. Size: varied from 2,600 to 42,000 SF; Cost: UNK.</p>		
d.	(1) TITLE AND LOCATION <i>(City and State)</i> Reach Back Kitchen Hood Engineering Support for LOGCAP IV <i>Afghanistan</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If Applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
<p>Fire Protection Engineer. Worked with users and vendors to select the proper Type I or II kitchen hoods for the cooking equipment provided in six different dining facilities at Kandahar AFB, Camp Shorab and TB Dwyer. Included design of exhaust systems, make up air systems, hood supports and wet chemical fire suppression systems with all controls, connection to alarm systems and shunt switches for kitchen equipment. Size: Varied from 5,600 SF to 28,000 SF; Cost: UNK.</p>			
e.	(1) TITLE AND LOCATION <i>(City and State)</i> Repair Reserve Forces Training Building 620, <i>Illinois Air National Guard, Peoria, IL</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If Applicable)</i> TBD
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
<p>Fire Protection Engineer. Reviewed existing conditions, planned and reviewed flow tests, prepared the preliminary hydraulic analysis and design analysis, prepared the life safety plan, coordinated the fire alarm design, prepared fire suppression design drawings and specifications all in accordance with UFC 3-600-01 and National Guard Bureau standards. Size: 5,434 SF; Cost: \$1.5 Million.</p>			
f.	(1) TITLE AND LOCATION <i>(City and State)</i> Jacksonville Regional Transportation Center, Administration and Bus Transfer Facility <i>Jacksonville, FL</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If Applicable)</i> 2020
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
<p>Fire Protection Engineer of Record for design-build fire sprinkler installation for a five story building to include administration offices, 250-person board/meeting room for both the public and JTA, executive offices, conference rooms, open workstations, building services and ancillary spaces. The design consists of a 1,000 GPM fire pump, manual wet standpipe system and wet pipe sprinklers for all interior spaces. Supervised preparation of hydraulic calculations, detailed shop drawings, and permit submission to City Fire Marshal. Size: 66,938 SF; Cost: \$57.3 Million.</p>			
g.	(1) TITLE AND LOCATION <i>(City and State)</i> Design-Build Renovated Room 5A-104 Pharmacy and Telemetry, VA Medical Center <i>Bay Pines, FL</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If Applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
<p>Fire Protection Engineer. Working for Gulf Building, LLC, provided a government required independent third party peer review of the project design. Reviewed 41 drawings, specification set, design narrative and code summary and provided formal written comments on life safety construction, fire alarm and fire suppression design. Size: 930 SF; Cost: withheld.</p>			
h.	(1) TITLE AND LOCATION <i>(City and State)</i> Upgrade Fire Alarm, VA Southern Oregon Rehabilitation Center and Clinics <i>White City, OR</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If Applicable)</i> 2020
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	

	Fire Protection Engineer. Prepared design and bid documents to upgrade the fire alarm in 31 of the campus buildings. The fire alarm panels were consolidated and replaced in all 31 buildings. All initiating devices were replaced with addressable devices in eight of the buildings. Coordinated with the Facilities staff, conducted field investigations, verified site distribution loop and documented all existing conditions in each building. Downloaded and saved existing database from each panel. Prepared design narrative, drawings and specifications for each building's scope. Supported Staff during pre-bid conference. Size: UNK; Cost: \$800,000.		
i.	(1) TITLE AND LOCATION <i>(City and State)</i> Office Building for Advanced Environmental Laboratories <i>Jacksonville, FL</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If Applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Fire Protection Engineer. Consulted with architect and prepared an analysis of the Florida Fire Prevention Code (FFPC) requirements for the project, a comparison between those and the requirements of the Florida Building Code (FBC) and a final report documenting the results. Size: 8,400 SF; Cost: withheld.	<input checked="" type="checkbox"/> Check if project performed with current firm	
j.	(1) TITLE AND LOCATION <i>(City and State)</i> Fort Wade Office Building 3 <i>Ponte Vedra, FL</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If Applicable)</i> 2020
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Fire Protection Engineer. Prepared criteria level permit drawings for site adapt of existing Building 2. Conducted field investigation and flow test. Developed new site plan to match existing conditions. Prepared fire sprinkler drawings for the new three story building, including preliminary hydraulic calculations and the State required "A-M" project information. Size: 62,751 SF; Cost: withheld.	<input checked="" type="checkbox"/> Check if project performed with current firm	
k.	(1) TITLE AND LOCATION <i>(City and State)</i> Thickening and Dewatering Facility, Buckman Waste Water Plant, JEA <i>Jacksonville, FL</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2020	CONSTRUCTION <i>(If Applicable)</i> 2021
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Fire Protection Engineer. FPE for design of fire suppression systems for a new three story industrial facility. Coordinated code requirements with architect. Conducted site visit, reviewed existing documents, developed options for expanding the site water loop to serve the new building, developed narrative and plans for new standpipe system and sprinkler system. Size: 24,778 SF; Cost: \$22.2 million.	<input checked="" type="checkbox"/> Check if project performed with current firm	
l.	(1) TITLE AND LOCATION <i>(City and State)</i> Oaks Golf Clubhouse Restaurant <i>NAS Pensacola, FL</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2020	CONSTRUCTION <i>(If Applicable)</i> 2021
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Fire Protection Engineer. FPE for design of replacement fire protection systems for two buildings, the clubhouse and the remote cart barn. Conducted field investigation, flow test, prepared basis of design as required by UFC 3-600-01. Oversaw preparation of code analysis, life safety plans, site utility plan, hydraulic calculations and fire alarm and suppression drawings. Size: 19,723/7,173; Cost: \$3 million.	<input checked="" type="checkbox"/> Check if project performed with current firm	
m.	(1) TITLE AND LOCATION <i>(City and State)</i> Design Build B-3049 RBC Replace Fire Pump <i>NSB Kings Bay, GA</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If Applicable)</i> 2019
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Fire Protection Engineer. Serving as QFPE for the replacement of the fire pump. Worked with design-builder to develop shop drawings and specifications for the replacement-in-kind of an existing fire pump, jockey pump and controllers. Included field testing and final certification for pump, controllers and transfer switch. Size: 500 SF; Cost: UNK.	<input checked="" type="checkbox"/> Check if project performed with current firm	
n.	(1) TITLE AND LOCATION <i>(City and State)</i> Entomology Center of Excellence Renovations <i>Naval Air Station, Jacksonville, FL</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If Applicable)</i> 2019
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Fire Protection Engineer. Served as QFPE for the fire suppression system installation. Supervised preparation of all shop drawings and submittals for the complete remodel of the building and replacement of all sprinkler heads and electronic switches. Performed all certification testing and observations. Size: 17,300 SF; Cost: UNK.	<input checked="" type="checkbox"/> Check if project performed with current firm	

o.	(1) TITLE AND LOCATION <i>(City and State)</i> Assess Condition of Fire Suppression, Fire Alarm and Fire Water Distribution Systems on Yankee and Zulu Ramps <i>Kandahar AFB, Afghanistan</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(If Applicable)</i> 2018
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Fire Protection Engineer. Performed analysis of existing reports, tests, maintenance records and photographs of the 27 Air Force hangars and shelters and the distribution piping serving the Yankee and Zulu ramps. Prepared an analysis of the problems and a detailed process for repairs to the fire pump system, distribution piping and the hangar fire alarm and suppression systems in order to return the mothballed hangars to fully operational status. Process included personnel and qualifications required, time line, schedule and sequence and bill of materials for the physical assessment.			
p.	(1) TITLE AND LOCATION <i>(City and State)</i> Triton MSC, P-662 <i>NSB Kings Bay, GA</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(If Applicable)</i> 2018
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Fire Protection Engineer. Engineer of Record for design-build fire alarm and mass notification system for the approximately 8,500 SF expansion of an existing building to include offices, planning and briefing spaces, support spaces and services, a large server room and a Sensitive Controlled Information Facility (SCIF). The design consisted of two separate systems, one in the SCIF, the other outside, linked together and connected to the existing building system. Each system included Signal Line Circuits, Notification Appliance Circuits and voice, LED text and visual notification, interface with HVAC systems. Supervised assembly of submittals and preparation of detailed installation shop drawings, all submitted to the Navy for approval.			
q.	(1) TITLE AND LOCATION <i>(City and State)</i> NATO Role 2 Medical Treatment Facility <i>Kosovo</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(If Applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Fire Protection Engineer. Provided life safety review and fire alarm design for a full service medical facility, including surgical suite, two patient wards and all support and administrative services. Reviewed the proposed floor plan for compliance with the UK Health Technical Memorandum 05-02: Firecode (fire safety in the design of healthcare premises). Made adjustments to the compartmentalization and exiting. Provided design and layout for the fire alarm system, including full smoke detection, initiating devices, notification appliances, main panel and accessories. Building was not sprinkled. Size: 15,500 SF; Cost: UNK.			
r.	(1) TITLE AND LOCATION <i>(City and State)</i> Fire Protection Code Review, Existing Hangar 9 <i>Reynolds Industrial Park, Green Cove Springs, FL</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(If Applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Fire Protection Engineer. Conducted flow test and reviewed IBC and NFPA 101 to determine if a proposed renovation of the existing 66,000 square foot WWII era hangar required sprinklers. The brief report determined that the water supply was adequate, but the building's occupancy and physical site layout did not require the addition of sprinklers. The report saved the client over \$250,000.00.			
s.	(1) TITLE AND LOCATION <i>(City and State)</i> Assess Existing Club House Sprinkler Code Requirements, King and Bear <i>World Golf Village, St. Augustine, FL</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(If Applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Fire Protection Engineer. Performed analysis of existing building against the IBC and NFPA 101 Life Safety Code to determine basis for sprinkler requirements. Acquired existing as-built drawings from St. Johns County. Reviewed condition of existing dry pipe sprinkler system throughout the building, which is leaking. Prepared final report documenting code requirements and providing recommendations for adding a nitrogen generator to the sprinkler system. Size: 18,256 SF; Cost: NA.			
t.	(1) TITLE AND LOCATION <i>(City and State)</i> Fire Protection Evaluation, State Farm Records Story Facility <i>Carrollton, TX</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If Applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	

	Fire Protection Engineer. Served as Engineer of Record for the evaluation of an existing records storage warehouse. Evaluated current conditions against current code requirements in response to a local Fire Marshal's inspection report. Submitted a report detailing current hazards and protections, current requirements and identified three different action options for the client to bring the facility into compliance, which varied by each of the three different existing rack layouts.		
u.	(1) TITLE AND LOCATION <i>(City and State)</i> Artwork Fire Protection Evaluation <i>San Antonio, TX International Airport Terminal A</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If Applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Fire Protection Engineer. Served as Engineer of Record for the evaluation of a sculpture composed of colored threads and zinc plated steel hooks oriented to provide a 3-D shape. At the request of the local Fire Marshal, the evaluation considered the sculpture's possible obstruction to the sprinkler discharge pattern and the extent of heat/smoke produced by the strings should they burn. A report was submitted with supporting calculations documenting that the sculpture did not create an obstruction, nor did the quantities of string pose a significant decrease in the level of life safety to the building occupants.		
v.	(1) TITLE AND LOCATION <i>(City and State)</i> UAS Hangar <i>Fort Hood, TX</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If Applicable)</i> 2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	
	Project Manager and Fire Protection Engineer of Record. Led a multidisciplinary team for the programming, design and construction administration for an unmanned aerial systems hangar facility. The project included a 100,000 SF hangar bay for the maintenance of 12 aircraft with all supporting utilities and equipment, an attached 30,000 SF two story office/training/operations area, a remote hazardous materials storage facility, two remote fire pump buildings and a 3,000 GPM domestic water pump station. The hangar bay included three separate AFFF suppression systems and the supporting drainage and collection system. The project required extensive sitework to develop the building pad, including special foundations to accommodate expansive site soils, eight acres of 8 inch Portland Cement apron, 1,200 feet of taxiway with lighting and markings, extensions of communications, sewer and gas to the remote site, extension and replacement of two miles of above grade high voltage utility power and over five miles of 16" watermain extension including a 500,000-gallon elevated storage tank. The project design was delivered in less than nine months using four, on time, fast track document packages. Size: 130,000 SF; Cost: \$40 million.		
w.	(1) TITLE AND LOCATION <i>(City and State)</i> Hangar for Confidential Client <i>Port of San Antonio, TX</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If Applicable)</i> 2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	
	Fire Protection Engineer. Engineer of Record for the design of the fire protection systems for the 49,808 SF addition to and 88,280 SF extension of an existing 247,000 SF maintenance hangar for a government contractor working on Air Force aircraft. Design included verification of existing pump capacities, modifications to the site system, expansion of the entry header and wet systems for all areas of the hangar and new office/storage areas. Size: 385,088 SF; Cost: Withheld.		
x.	(1) TITLE AND LOCATION <i>(City and State)</i> Training Support Center <i>Fort Sam Houston, San Antonio, TX</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2011	CONSTRUCTION <i>(If Applicable)</i> 2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	
	Mechanical and Fire Protection Engineer for design of the admin, training simulator and equipment maintenance and storage facility. Designed the HVAC, plumbing and fire protection systems, including outdoor air compliance, LEED templates, controls, specifications and all plan documents. HVAC system consisted of an air cooled chiller, high efficiency condensing gas boiler, fan powered VAV distribution system, natural gas, chilled and heating water piping and toilet exhaust. The warehouse had cross ventilation fans and high efficiency condensing gas unit heaters. The fire protection systems included a wet system, including for the warehouse rack storage, and a dry system to service the exterior dock canopy. Size: 29,000 SF; Cost: \$6.3 million.		
y.	(1) TITLE AND LOCATION <i>(City and State)</i> Army Aviation Support Facility #1, Add/Alter <i>Cecil Field, Jacksonville, FL</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If Applicable)</i> 2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	

	<p>Project Manager. Complete design and construction services for a Controlled Humidity Preservation Hangar for the Florida Army National Guard. Project included a new 35,000-square-foot air-conditioned storage hangar with three maintenance shop areas and a rescue vehicle bay. Site work included a new ramp and taxiway, refurbishing the existing ramp, new signage and striping, revised ramp lighting, new apron AT/FP fencing and aircraft gate, POV parking lot sealing, a new exterior loading dock, landscaping, utility extensions and relocations and a new overall facility sign. The project also included providing a new main entry point with flag pole and elevator, remodeling various spaces and systems within the existing 110,000 SF Hangar 860, creating an emergency operations center, adding an emergency generator, motorizing the hangar doors, replacement of the combined facility's fire pumps and foam systems, four small buildings on the site for storage, Hazmat, welding shop and aircraft wash equipment and sealing and waterproofing the entire building envelope. Size: 146,000 SF; Cost: \$9.5 million.</p>		
aa.	(1) TITLE AND LOCATION <i>(City and State)</i> Stuart Mesa MCX Marine Mart Renovation <i>Camp Pendleton, CA</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2020	CONSTRUCTION <i>(If Applicable)</i> 2020
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	<p>Fire Protection Engineer. Served as the QFPE for the complete renovation of the existing store. Prepared the life safety code review, conducted the flow test, prepared the design for adding a completely new fire service and wet pipe sprinkler system to the previously unsprinkled building, including complete hydraulic calculations. Sprinkled above and below the lay in ceiling due to the combustible structure. Designed removal of the existing fire alarm system and provided a completely new combination fire alarm/mass notification system. Size: 5,920 SF; Cost: \$</p>		
bb.	(1) TITLE AND LOCATION <i>(City and State)</i> HVAC Renovation for Building 102, VA Medical Center <i>Bay Pines, FL</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2020	CONSTRUCTION <i>(If Applicable)</i> 2020
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	<p>Fire Protection Engineer. Provided fire sprinkler design services for the existing wet pipe system for relocation of piping to coordinate with changes to the building HVAC systems and ductwork and the replacement of all existing heads with new quick response heads, white to match the new ceiling. Size: +/- 18,000 SF; Cost: \$</p>		
cc.	(1) TITLE AND LOCATION <i>(City and State)</i> Renovate Building 27, Ward 2, Medical/Surgical Rooms <i>VA Medical Center, Boise, ID</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2020	CONSTRUCTION <i>(If Applicable)</i> 2021
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	<p>Fire Protection Engineer. Provided design services for the complete renovation of the existing 2nd floor. Replaced all the sprinkler heads on the existing wet pipe sprinkler system with new quick response heads and coordinated the relocation/addition of heads to provide full coverage for the new floor plan layout. Provided design to remove and save all existing fire alarm devices. Provided a new <i>VA Fire Protection Design Manual</i> and code compliant device layout to match the new floor plan, reusing the salvaged devices to the maximum extent possible. New NAC circuits were provided from the existing 2nd floor terminal cabinet as required. Size: 11,800 SF; Cost: \$6.8 Million.</p>		
dd.	(1) TITLE AND LOCATION <i>(City and State)</i> Innovation and Technical Center for Confidential Client <i>Jacksonville, FL</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2020	CONSTRUCTION <i>(If Applicable);</i> 2021
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	<p>Fire Protection Engineer. Provided planning and design services for a new, two story Innovation and Technical Center for a private client in the food service industry. Facility included office areas, test kitchens, testing areas and the necessary supporting storage, delivery, mechanical, electrical and other spaces. Provided a complete wet system serving the entire facility, and a dry system for multiple outdoor canopies. Coordinated site distribution fire mains and fire hydrants, and building service entry. Size: 48,000 SF; Cost: \$18 Million.</p>		
ee.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	