Performance Work Statement

FOR

Joint Base Andrews Cross Connection & Backflow Survey

Prepared by

Maurice Dayton
Requirements & Optimization Section
316 Civil Engineer Squadron
J.B. Andrews, Maryland

12 June 2026

1.0 Introduction:

1.1 Summary of Requirements: For all instances below or in any other section of these specifications where work, materials, operations or services are described, the contractor shall provide all supervision, labor, equipment, materials, appliances and perform all operations necessary for the **J.B. Andrews Base Wide Cross Connection & Backflow Survey.**

1.2: Background: According to DAFMAN 32-1067, "Every five years, under the supervision of the Base Personnel Management, Base Civil Engineer personnel, with the assistance of the BEE or qualified BE personnel and/or qualified contractors, shall survey all facilities and water-using equipment and systems..." The base is in noncompliance with DAFMAN 32-1067 due to the lack of a comprehensive survey of all facilities and water-utilizing equipment systems as it relates to cross connections and backflow preventers. The facilities identified in the **JBA Cross Connection Survey Building List (Attachment 2)** need surveying.

1.3: Purpose: The primary purpose is for the contractor to inspect and clearly identify all JBA Cross Connection & Backflow prevention devices. Address all items and identify any elements that impact cost, functional/operational relationships, maintenance, energy and life cycle costs, utilities, environmental issues, aesthetics and design standards, engineering systems, and other specific items. Validate and draft the DD 1391 and/or form the basis to adjust the programming document for both cost and scope. This work **does not** require the service of an A/E to stamp or certify.

2.0 Extent of Work:

2.1 Current Situation: J.B. Andrews has been identified as needing a complete cross-connection and backflow survey. Many of these facilities have backflow prevention devices installed but due to new construction, renovation, and equipment installation, previously installed devices may no longer meet requirements. Some facilities may also be missing needed backflow prevention devices. The WFSM shop does all testing and maintenance on installed backflow devices. Therefore, the contractor will only need to complete a survey and provide recommendations on current devices and where to install new devices.

2.1.1 Baseline Inventory Clause: The inventory provided is an estimate. The contractor shall establish a pre-priced CLIN for the discovery of undocumented devices.

2.2 Project Detail: The following is a summary of the basic project information:

- Work Task: 16532079
- Installation: Joint Base Andrews
- Requiring Command: AFDW
- Host Command: AFDW
- Fiscal Year (FY) Planned: FY26
- Proposed Acquisition Method: Survey
- Status of Execution: Backflow Survey

2.3 Project Description: This work shall be performed under the Performance Work Statement (PWS) contained herein. The project is to make a complete inventory. The current inventory is an estimate and the contractor must establish a complete inventory of all backflow devices installed on facilities identified in the **JBA Cross Connection Survey Building List** J.B. Andrews facilities; and to ensure that all devices are installed properly and are in compliance with the most recent codes and regulations specified or referenced in DAFMAN 32-1067, UPC section 603, and ASSE standards 1001 through 1103. The project will also perform an assessment of the same facilities identified in the **JBA Cross Connection Survey Building List**, to include the systems and equipment inside the facilities, and to give recommendations of where new, or additional, devices should be installed to ensure all plumbing systems are in compliance with the most recent codes and regulations specified or referenced in DAFMAN 32-1067, UPC section 603, ASSE standards 1001 through 1103, and AWWA M14, C510 and C511.

2.4 Project Requirements: The contractor shall provide all supervision, labor, transportation, equipment, materials and perform all necessary engineering and operations to accomplish the following:

2.4.1 REPORT PER FACILITY: The contractor shall complete the AF Form 848 and individual Cross Connection & Backflow Report and shall provide for each Backflow Prevention device which will consist of the following information:

- ***FOR EXISTING AND NONCOMPLIANT DEVICES:***
  - Facility number.
  - General location within the facility.
  - Device specifications.
    - Device size (in inches)
    - Model
    - Serial number
  - Type of system being protected.
  - Type of hazard the device it is protecting against.
  - Picture of the general area where the device is installed.
  - Close up picture of the device (capturing data plate, if possible)
  - Compliance status
  - Devices are deemed noncompliant if determined to not be up to date with the most recent codes and regulations specified or referenced in DAFMAN 32-1067 and UPC section 603, and ASSE standards 1001 through 1103, and AWWA M14, C510 and C511
    - Provide guidance to correct noncompliant devices

- ***FOR RECOMMENDED DEVICES:***
  - Facility number.
  - Device specifications.
  - Type of system to be protected.
  - Type of hazard to protect against.
  - Marked-up picture of the proposed location on the system.
  - General picture of the area.
  - Identify conditions and constraints for installment.

2.4.1.1 DD1391 Programming Document: Upon receipt of the contractor's 2-week look-ahead, the Government shall provide the contractor within three business days a copy of the current DD1391 for the scheduled facilities. The contractor shall validate whether the existing information on the DD1391 correctly reflects the backflow preventer conditions in the field. If there is a discrepancy (i.e. a backflow preventer present but not on DD1391), the contractor should edit the DD1391 to reflect what is present at that location and that it is reflected properly in the new DD1391.

2.4.2 PROGRESS MEETING: A meeting every two (2) weeks to discuss progress and remedy any potential issues is required. A schedule shall be developed by the contractor at least two (2) weeks in advance of any facility entry to coordinate with affected facility managers. The schedule will be disseminated to all appropriate 316 CES/Optimization personnel

- Two (2) weeks look ahead/ template
- Progress report/ % complete (Base Line Schedule)
- Contractor meeting agenda

2.4.3 CONTRACTOR KNOWLEDGE: The Contractor shall provide the technical knowledge and skills necessary to perform services to meet standards set forth in this Statement of Work for base facilities, equipment and systems and at a minimum meet manufacturer's requirement.

2.4.4 CONTRACTOR QUALIFICATION: The contractor shall ensure that all employees performing work under this contract have all applicable licenses and certification to inspect the item(s) in question. The person certifying the work shall be a master plumber/gas fitter. Supporting documentation shall be provided if requested. The government will have 14 days to inspect survey completion items. Following this period, the contractor shall have a 5-day turnaround time to rework any documented deficiencies.

Personnel Qualifications & Required Certifications

All backflow prevention assembly certification services performed at Joint Base Andrews (JBA) must be conducted by qualified personnel who meet federal, state, and local regulatory

standards. The Contractor shall ensure that all technicians performing this work hold and maintain the following mandatory, active credentials:

1. State Licensing: The Contractor must hold a valid corporate/business plumbing license in the State of Maryland, and the individual technicians performing the work must hold an active Maryland Master Plumber or Maryland Journey Plumber license issued by the Maryland State Board of Plumbing.
2. Local Water Authority Certification: Because JBA and Brandywine fall under the jurisdiction of the Washington Suburban Sanitary Commission, the Contractor must be actively registered as a plumber with the WSSC. Furthermore, the individual technicians performing the testing must possess an active WSSC Cross-Connection Technician certification.

The Contractor shall submit proof of all required state licenses, ASSE/BPAT certifications, and WSSC credentials to the Contracting Officer and the Contracting Officer's Representative (COR) prior to the commencement of the performance period. Failure to provide active certifications or the use of uncertified personnel may result in the rejection of services and/or contract termination.

3.0 JBA Special Conditions:

3.1 Technical Representative: The appointed representative from 316 CES / Optimization and Water and Fuel Systems Maintenance (WFSM) will be designated as the acting project managers, thus shall be referred to as such for the remaining use of this document. This designation includes, but is not limited to, the following specific functions of this contract:

- Technical administration and inspection
- Recommending approval of reports per building surveyed (AF Form 848), meeting minutes, and 2-week lookahead.
- Coordinating work operations between 316 CES/Optimization and WFSM.
- "Raw Data Export" in a non-proprietary CSV format for seamless upload into the Air Force's NexGen IT (TRIRIGA) system.

3.2: Base Governing Standards: All contractors or subcontractors shall conform to Base Governing Standards whereas the most stringent regulation always applies, including the following:

- DAFMAN 32-1067 Water Systems (O&M and cross-connection control program requirements)
- UFC 3-230-01 Water Storage and Distribution
- UFC 3-200-02 O&M: Water Supply Systems
- UFC 3-420-01 Plumbing Systems

- UFGS 22 00 00 Plumbing: General Purpose
- And additional UFC/UFGS requirements and applicable codes incidental to the work, not limited to, as deemed by the project manager in '3.3 Project Description.'
- Provide AHA submissions 15 days prior to work per USACE EM 385-1-1, OSHA confined space entry permits/logs, and a predefined HAZMAT Stop-Work Protocol.

3.3 Accident Prevention: The contractor shall comply with all Air Force Occupational Safety & Health Standards, (AFOSH Standards). Copies of AFOSH Standards are available for review through the Base Safety office.

3.4 Occupational, Safety, and Health Act: Contractors shall comply with OSHA 1926, Construction Standards and the portions of OSHA 1910 standards that are applicable to construction.

3.5 Coordination of Work Operations: The work to be performed under this contract is on an active Air Force Base and requires formal Utility Outage Requests (AF Form 103) submitted 14-21 calendar days prior to shutoffs, coordinating with the Base Fire Marshal and Airfield Management. The contractor shall coordinate all work operations with the project manager prior to starting any work under this contract. The contractor shall have a superintendent who speaks, reads, writes and understands the English language to act for the contractor and shall always be available during on site work while the general contractor or any of his subcontractors are executing work.

3.5.1 NOTIFICATION: The contractor shall notify the project manager in writing when planning to be absent from the project locations for more than two workdays. Prior to returning to the project, the contractor shall notify the project manager.

3.5.2 CONTRACTOR'S EMPLOYEE PARKING: The contractor's employees shall park only in public parking spaces. Contractors shall not park in reserved parking spaces or other designated parking spaces.

3.5.3 SPEED LIMIT: The base speed limit is 25 miles per hour unless posted otherwise. The speed limit in all Family Housing areas is 15 mph.

3.5.4 CONTRACTOR'S EMPLOYEE RESTRICTION: Contractor employees shall be restricted to areas of the base within the scope of this work. The contractor's employees shall always have in their possession a valid picture ID and their base identification pass. Contractors shall be escorted by the government and guided during their work shift at the point of entry onto the base.

3.5.5 WORK HOURS: Work for all operations may be scheduled in accordance with escort hours of operations, and to be deemed at the kickoff meeting. However, work schedules and hours must be submitted at least two weeks in advance in accordance

with the **APPROVED** 2-week lookahead. Work shall not be scheduled for any Federal Holiday.

- *New Years's Day – Thursday, January 1*
- *Birthday of Martin Luther King, Jr. Monday, January 19*
- *Washington's Birthday - Monday, February 16*
- *Memorial Day - Monday, May 25*
- *Juneteenth National Independence Day - Friday, June 19*
- *Independence Day - Friday, July 03*
- *Labor Day - Monday, September 07*
- *Columbus Day - Monday, October 12*
- *Veterans Day - Tuesday, November 11*
- *Thanksgiving Day - Thursday, November 26*
- *Christmas Day - Friday, December 25*

3.5.6 BASE REGULATIONS: The contractor shall attend the initial kickoff meeting and conform to all Base Regulations and directives to include those that pertain to security, safety, traffic, fire, and personnel clearances, to that extent as they apply to the Contractor's activities.

3.5.7 CONTRACTOR ACCESS PASSES: The Contractor Personnel Roster shall be done via DBIDS, 30 calendar days prior to fieldwork. The Contractor shall provide the following information to the 316 CES/Optimization at least 5 business days prior to the initial kickoff meeting for sponsorship:

- Name
- Social Security Number
- Driver's License Number and State of Issue
- Vehicle Info (Make/Model/Color/Year)
- License Tag Number and State
- Name of Company
- Date and Time of Arrival

On the date of arrival personnel can enter through the Main Gate (off Allentown Road) to enter the Base. If any of the Contractor's employees are expected to be on Base longer than 5 business days, they must schedule with the 316 CES/Optimization to obtain a Long-Term Contractor's Badge request form. The Long-Term Pass Request shall be taken to the Visitor Center at the Main Gate.

VISITOR CENTER HOURS OF OPERATION are,

- Monday thru Friday **0600 - 2200 hrs.**
- Saturday, Sunday and Air Force District of Washington/316th WG Family Days **0600 - 1800 hrs.**
- Federal Holidays **0600-1800 hrs.**

All Contractor employees applying for a security badge shall be subjected to a background check through the National Crime Information Center conducted by the Security Forces Squadron. These Base access procedures are subject to change.

3.6 Contractor Vehicle Access Requirements: If the contractor should arrive on base operating more than a standard passenger/commercial vehicle or empty pick-up truck\van, they must enter and exit through the Pearl Harbor Drive Gate and will be subject to a search which will include all vehicle compartments and transported containers.

PEARL HABOR GATE is open,

- Monday through Friday **0500 - 2100 hrs.**
- Saturdays, Sundays, down-days, and Federal Holidays **CLOSED**

If commercial **entry is required outside the established hours**, contact the 316th Security Force Squadron Police Services at **301-981-8575** to make alternative arrangements. Contractors are advised that such searches may result in delays averaging 30 to 60 minutes depending upon the day of the week and time of day. Contractors must coordinate diligently for delivery of perishable deliveries such as concrete or bituminous material. Time sensitive deliveries such as concrete or bituminous material will be given priority over other deliveries and will be moved to the front of the line.

3.7 Restricted Movement Times: When a ramp freeze is in effect, vehicle movement on North Perimeter Road and South Perimeter Road will be stopped for duration of 30 minutes to an hour. The Contractor can expect approximately 5 Ramp Freezes per week. Ramp freeze dates/times are not known in advance and must be maneuvered when in effect.

3.8 Housekeeping: The contractor shall always maintain excellent housekeeping practices to reduce the risk of fire damage and/or personal injury, at the survey location(s) of the day. The contractor shall provide Scrap/Disposal manifests to ensure accountability and proper disposal of all materials and must be submitted with the final invoice. The contractor shall coordinate with the project manager and shall request scheduling of the final inspections, in writing, a minimum of 3 days in advance of the requirement.

3.9 Catalytic Converters: No vehicle equipped with a catalytic converter shall be permitted to operate within 50 feet of any aircraft, on or near the taxiways or runways, around fuel spills, in POL areas, in munitions areas or in other potentially hazardous areas when identified with a placard.

3.10 Security Requirements: All personnel employed by the contractor in the performance of this contract, or any representative of the contractor entering the government installation, shall abide by all security regulations of the installation. The contractor shall be

responsible for the action of any of their subcontractors and their employees who are working on JBA. The contractor and subcontractor shall hire U.S. citizen(s) that are in possession of a valid State driver's license and birth certificate. If the employee is not a U.S. citizen, the contractor and/or subcontractor may hire non-U.S. citizens if they are in possession of a Green Card, Social Security Card, Resident Card, Work Visa, and State issued Identification Card. If driving on base a State issued Real I.D. driver's license is required. The Contractor shall ensure the pass and identification items required for contract performance are obtained for employees and non-government owned vehicle.

3.11 Security Areas: Work to be accomplished under this contract requires access to secure areas and the contractor will not be granted unlimited access. The contractor shall coordinate and contact the project manager at a minimum of two weeks, in accordance with the 2-week lookahead, prior to commencement of work to arrange for security passes and to become acquainted with security requirements. The contractor shall not deviate from any and all indicated security requirements.

3.11.1 APPEARANCE OF WORKMEN: All contractor employees shall wear work shirts bearing a patch on the front left breast, with the company name or emblem, or equivalent, and shall possess at all times an identification card indicating the individual's name, company name, and bearing a picture of the individual. Workmen shall be neat, clean and presentable when working on base. The contractor's vehicles shall display emblems indicating the company name. Work clothes shall consist of shoes, shirts, and long pants, or long coveralls.

3.11.2 OBJECTIONABLE EMPLOYEES: The project manager, in writing, may require the contractor to remove objectionable employees from the work site, area, or base. Objectionable employees include those employees not properly attired, those employees using profane language or employees which act in an unsafe or reckless manner.

3.11.3 CLEANLINESS: The contractor shall protect government property and furnishings that may be in, or adjacent to, the work area with appropriate clean drop cloths, barricades, dust-stops, or other provisions as determined by, or approved by, the project manager prior to starting work. The contractor shall provide visual, time stamped 'Before and After' photos to show the site was restored and thermal insulation/cages were replaced. The contractor shall remove all debris, tools, materials and equipment and other items when work is completed at each location.

3.12 Photography: Photography within restricted areas shall be coordinated with the project manager. The contractor shall obtain an approved letter from the 89th and/or 316th Wing Public Affairs office prior to taking photographs within a restricted area. The photographer shall always have possession of the signed letter while photographing.

3.13 Emergencies: In case of an emergency, the PROJECT MANAGER, CO, Base Fire Chief and Base Operations Officer, or their representative, shall have the authority to order the contractor to terminate work and clear the area of personnel and equipment. The contractor shall comply with such an order, at a reasonable speed.

- Base Fire 301-981-6977
- Base Police 911 (inform them you are on JBA to be transferred)
- BDOC 301-981-7222

3.14 EQUIPMENT ON PROPERTY DAMAGED BY THE CONTRACTOR: Prior to starting work the contractor shall annotate and bring to the attention of the project manager any noticeable damage to equipment, ladders, ceiling hatches, etc. If the damage is not documented, then the contractor shall be responsible for the repairs. The contractor shall be responsible for the repair of any of the above damaged in the process of performing their work. The repairs shall utilize the original manufacturer's approved parts and comply with manufacturer's specifications. When the contractor finishes the repair, the equipment shall function within acceptable manufacturer's specifications. This shall be accomplished at no cost to the Government.

3.15 VANDALISM: The contractor shall be responsible for safeguarding all construction equipment and materials against vandalism and theft. The Government will not be liable for theft, damage to or loss of construction and personal items

3.16 WEAPONS: Weapons of any sort are not authorized on JBA, this includes guns, knives, swords, nun chucks, brass knuckles, or any other weapon that has a sole purpose to injure or maim. Combination tools such as Leatherman and small pocketknives with folding blades less than four inches are authorized if used in the performance of duty. Those found in violation of this directive are subject to apprehension, criminal charges, and debarment from the installation

3.17 ILLEGAL CONTROLLED SUBSTANCE: The U.S. Federal government is the most vocal opponent of the drug industry, and it has set the de facto international standards regarding the legality and illegality of different drugs. Illegal controlled substances and narcotics are not authorized on JBA whatsoever. Controlled substances shall not be transported on the installation via vehicle or on an individual person. Marijuana/cannabis, cocaine, crack cocaine, LSD, methamphetamine (meth), heroin, anabolic steroids, psilocybin mushrooms, are some of the forbidden substances (this list is not all-inclusive). Prescription medications are authorized for the person the medication is issued; however, the medication must not be expired, and the label must clearly indicate the name of the person the medication is issued to. Otherwise, prescription medication may be deemed illegal by law enforcement officials. Those found in violation of this directive are subject to apprehension, criminal charges, and debarment from the installation.

3.18 Deliverables: Contractor compensation shall be directly tied to the successful completion of the project. Payment will be made once all deliverables are received and accepted. There will **NOT** be any progress payments. Deliverables required:

- AF Form 848 for each facility in the **JBA Cross Connection Survey Building List**
- Cross Connection & Backflow Report (per building)
    - Provide forms/reports in a raw data export in a non-proprietary CSV format for seamless upload into the Air Force's NexGen IT (TRIRIGA) system, and in print with a 3-ring bind, 8”x11” binder (2 copies in two different binders)
    - Provide weekly submissions of survey progress with facility documentation provided within 5 days of said completion.
- If the DD1391 was updated per paragraph 3.4.1.1, the revised DD1391 (per building).

4.0 Project Guidance

4.1 Security Classification Guidance: U.S. entities contractors and vendors conducting work in support of the **JBA Cross Connection & Backflow Survey** will review Department of Defense (DoD) instructions 5210.67 and 5210.83 regarding classification guidance for each facility they are involved with and adhere to all and any applicable DoD and/or Defense Threat Reduction Security Classification Guide. All entities will implement proper classification markings on all media, e.g., documents and electronic mail.

4.2 Government Furnished Property (GFP) and Service: The US Government will not provide any equipment, fuel, personnel, utilities or facilities to the contractor for the execution of this contract. Should an emergency arise, only the necessary basic lifesaving and life support measures will be provided during the emergency.

4.2.1 RETURNS: The contractor will return all equipment purchased/leased or obtained from the Government at the completion of this contract or at the request of the Government. In addition, the contractor shall return all issued items upon contract expiration or termination such as CACs. Contractor shall review information included in AFFARS Clause 5352.242-9001, CACs for Contractor Personnel.

4.2.2 BADGE: The government will provide a(n) ID badge as appropriate. The badge will be always worn/displayed. Upon completion of performance or termination of the contract by the Project Manager, the contractor shall turn in all ID badges and any other document issued by the government to the issuing office, 316th Wing Optimization or project manager

4.2.3 SPACE: Any space used by the contractor in terms of the performance of this contract may be used for other purposes during the contractor’s absence.

4.3 General Requirements: The contractor shall provide all supervision, labor, transportation, equipment, and materials daily, and perform all necessary engineering and operations to accomplish the following:

4.3.1 The contractor shall follow all federal, state and local codes, laws and standards, to include safety regulations, while conducting this survey. The contractor shall be held liable for any corrective action or violation identified during or after work has been accomplished.

4.3.2 In the event JBA personnel or its agents perform repair or corrective action on a backflow prevention device that the contractor inspected and certified as compliant under this contract and the device is subsequently determined by the project manager to have failed due to:

(a) Negligent inspection

(b) Failure to identify non-compliant conditions or

(c) Inaccurate or incomplete reporting

In the event the contractor provides an inaccurate or incomplete report, the contractor shall be liable for all reasonable and documented costs necessary to bring the device into compliance with DAFMAN 32-1067 and UPC section 603, ASSE standards 1001 through 1103, and AWWA M14, C510 and C511. Furthermore, if the contractor's reports are found to be inaccurate or incomplete, the contractor shall be liable for its recommendations to remedy any non-compliant issues found during inspection Contractor liability under this paragraph shall apply for a period of twelve (12) months from the date of inspection certification. The contractor shall not be liable for failures resulting from normal wear and tear, misuse, vandalism, acts of God, or subsequent modification or repair by others.

4.4 Continuation of Essential Department of Defense (DoD) Contractor Services During Crisis: In the event the contractor is unable to perform his daily operations due to peacetime emergency and/or wartime contingency disturbances, etc., neither the Government nor the contractor shall take action for non-compliance with contract requirements. Upon notification by the CO, the contractor shall perform emergency and special event services, contingencies, operational readiness exercises or inspections. Emergency and special event services will be priced separately from routine services.

4.5 Government Remedies: The project manager shall follow RFO 52.212-4 Terms and Conditions—Commercial Products and Commercial Services, for contractor's failure to perform satisfactory services or failure to correct non-conforming services.

4.6 Performance Warranty: The contractor shall provide a 12-month performance warranty at the completion of the survey certifying all findings and stipulating that any repairs or new installations must pass the subsequent annual certification test.