



4 County Complex Court, Woodbridge, Virginia 22195-2266 • Fax (703) 335-7954

July 2, 2025

Addendum # 1

RFP SA 2503 – Ongoing Renewal and Replacement – Grubbs HVAC

THIS SOLICITATION IS HEREBY AMENDED AS FOLLOWS:

- Extension of Question Deadline: The deadline for submitting questions has been extended to **July 10, 2025, at noon (EST)**.
- The Bid Submission Due Date for this project has been extended to **July 30, 2025, at 10:00 AM (EST)**.
- The attached responses to questions have been added for clarification.
- The drawings and specifications have been updated to reflect code-related changes.

Acknowledgement: Offerors submitting a proposal response for the above named solicitation shall take note of the following changes, additions, deletions, clarification, etc., in the Contract Documents, which shall become a part of and have precedence over anything shown or described in the Contract Documents, and as such shall be taken into consideration and be included in the Offeror's response. All other terms and conditions of the Invitation of the Request for Proposals shall remain unchanged. Offerors must acknowledge receipt of this amendment by signing and returning this addendum with the proposal response prior to the proposal deadline.

Authorized Signature

Date

Name Printed

Title

Company Name

Direct all inquiries to procurement@pwwater.org

Questions and Responses:

1. **Question:** Variable Refrigerant Flow System – May “Samsung” be added to the list of acceptable manufacturers per spec section 238129, para 2.2.A

Response: Please provide a manufacturer currently listed under Specification Section 23 81 29, Paragraph 2.2.A. Currently, Samsung is not an approved manufacturer per the specification.

2. **Question:** Booster Coil - May “Aerofin” be added to the list of acceptable manufacturers

Response: Please provide a manufacturer listed in Specification Section 23 31 13, Paragraph 2.3.J. Currently, Aerofin is not included among the approved manufacturers.

End of Addendum Number One

BUILDING CODE CHART: 2021 VIRGINIA CONSTRUCTION CODE			
NFPA 820 CLASSIFICATION	GRUBBS BUILDING		
BUILDING (MAIN) OCCUPANCY (CHAPTER 3)	NA		
	B		
MIXED USE FACILITY	YES	YES	YES
ROOM SEPARATION RATING	NA	NA	NONE
CONSTRUCTION CLASSIFICATION (CHAPTER 6)	II-B		
NUMBER OF STORIES	ALLOWABLE	ACTUAL	ACTUAL
	3	2	2
BUILDING HEIGHT	ALLOWABLE	ACTUAL	ACTUAL
	55'	52'-2"	52'-2"
ALLOWABLE AREA FACTOR PER FLOOR	23,000 SF FLOOR AREA FACTOR	UNCHANGED	UNCHANGED
	BASEMENT-4.0:10	1ST-16.082	2ND-11.631
FIRE SEPARATION DISTANCE RATINGS (TABLE 602):			
	REQUIRED	PROVIDED	PROVIDED
DISTANCE LESS THAN 5'	0	0	0
DISTANCE BETWEEN 5' & 10'	0	0	0
DISTANCE BETWEEN 10' & 30'	0	0	0
DISTANCE MORE THAN 30'	0	0	0
FIRE RESISTANCE RATING REQ'TS FOR BLDG ELEMENTS (TABLE 601):			
	REQUIRED	PROVIDED	PROVIDED
PRIMARY STRUCTURAL FRAMING	0	0	0
BEARING WALLS - EXTERIOR	0	0	0
BEARING WALLS - INTERIOR	0	0	0
NON BEARING WALLS - EXTERIOR			
NON BEARING WALLS - INTERIOR	0	0	0
FLOOR CONSTRUCTION	0	0	0
ROOF CONSTRUCTION	0	0	0
INTERIOR FINISHES (TABLE 803.5) :			
VERTICAL EXITS AND EXIT PASSAGEWAYS	B	B	B
EXIT ACCESS CORRIDORS & OTHER EXITWAYS	C	C	C
ROOMS AND ENCLOSED SPACES	C	C	C
FIRE PROTECTION SYSTEMS (CHAPTER 9):			
	REQUIRED	PROVIDED/ EXISTING	PROVIDED/ EXISTING
AUTOMATIC SPRINKLER SYSTEMS (SECTION 903)	YES	YES	YES
PORTABLE FIRE EXTINGUISHERS (SECTION 906)	YES	YES	YES
FIRE ALARM AND DETECTION SYSTEMS(SECTION 907)	YES	YES	YES
EMERGENCY ALARM SYSTEMS (SECTION 908)	YES	YES	YES
MEANS OF EGRESS (CHAPTER 10):			
	REQUIRED/ ALLOWABLE	PROVIDED/ EXISTING	PROVIDED/ EXISTING
OCCUPANT LOAD CHART (TABLE 1004.1.2)	OCCUPANT LOAD IS UNCHANGED		
EGRESS WIDTH PER OCCUPANT LOAD - STAIRWAYS (SECTION 1005.3)	MIN 36"	36"	36"
EGRESS WIDTH PER OCCUPANT LOAD - OTHER COMPONENTS (SECTION 1005.3)	MIN 36"	36"	36"
STORIES WITH ONE MEANS OF EGRESS (TABLE 1021.2)	UNCHANGED		
SPACES WITH ONE MEANS OF EGRESS (TABLE 1015.1)	ALLOWED BY OCCUPANT LOAD		
EXIT ACCESS TRAVEL DISTANCE	UNCHANGED		
CORRIDOR FIRE-RESISTANCE RATING W/ SPRINKLER	0	0	0
ACCESSIBILITY (ANSI/ ADAAG):			
	REQUIRED	PROVIDED	PROVIDED
CONSTRUCTION SITES	NO	NO	NO
ACCESSIBLE ROUTE	YES	YES	YES
ACCESSIBLE ENTRANCE	YES	YES	YES
EQUIPMENT SPACES	NO	NO	NO
PARKING	YES	YES	YES
SIGNAGE	YES	YES	YES

EXISTING BUILDING CODE NOTES:

1. THE ARCHITECTURAL WORK IS CLASSIFIED AS ALTERATION LEVEL 1 FOR THE REMOVAL AND REPLACEMENT OF CEILINGS AND LABORATORY CABINETRY, COUNTERTOPS, SINKS, AND THE ADDITION OF A FUME HOOD.
2. THE HVAC WORK IS CLASSIFIED AS ALTERATION LEVEL 2 WITH NEW DUCTWORK AND AIR-FLOW VALVE UNITS BEING ADDED TO EXISTING SYSTEMS OR AS EXTENSIONS OF EXISTING SYSTEMS.

ENERGY CONSERVATION NOTES

1. SCOPE OF WORK DOES NOT INCLUDE CHANGES TO BUILDING THERMAL ENVELOPE EXCEPT AS FOLLOWS:
- 1.a. ROOF CURBS CUT INTO EXISTING FOOTING TO REPAIR.
- 1.b. PENETRATIONS THROUGH EXISTING ROOF TO REMAIN.
2. PENETRATIONS THROUGH EXISTING EXTERIOR MATERIALS WILL BE PATCHED WITH MATERIALS TO MATCH.
3. VAPOR BARRIERS ARE TO BE SEALED TO NEW MATERIALS THAT PENETRATE A VAPOR BARRIER.

GENERAL CODE CRITERIA	
PROJECT	GENERAL
CODES	
BUILDING CODE	2021 VIRGINIA CONSTRUCTION CODE
FIRE CODE	2021 VIRGINIA STATEWIDE FIRE PREVENTION CODE
PLUMBING CODE	2021 VIRGINIA PLUMBING CODE
MECHANICAL CODE	2021 VIRGINIA MECHANICAL CODE
ELECTRICAL CODE	2020 NATIONAL ELECTRICAL CODE (NEC)
ENERGY CODE	2021 VIRGINIA ENERGY CONSERVATION CODE
EXISTING BUILDING CODE	2021 VIRGINIA EXISTING BUILDING CODE
SITE	
SOIL CLASSIFICATION (SITE CLASS)	D
WIND SPEED	119 MPH
WIND EXPOSURE	B
SPECTRAL RESPONSE COEFFICIENT, SDS	0.15%
NON STRUCTURAL COMPONENT SEISMIC DESIGN REQUIRED	NO
BUILDING/STRUCTURE #	
OCCUPANCY OF BUILDING - MIXED	OCCUPANCY OF NEW WORK - B, UNCHANGED
CONSTRUCTION TYPE	II-B
NUMBER OF STORIES	2-STORIES
BUILDING HEIGHT	52'-2"
FLOOR AREA	TOTAL=31,723 - UNCHANGED
OCCUPANCY CATEGORY	III
SEISMIC DESIGN CATEGORY	B



LEGAL ENTITY:
ARCADIS U.S., INC.

CONSULTANTS

SEALS



COUNTY REVIEW

WOODBRIDGE, VA

PRINCE WILLIAM
WATER

H.L. MOONEY ADVANCED
WATER RECLAMATION FACILITY
1851 RIPPON BLVD.
WOODBRIDGE, VA

GRUBBS WATER QUALITY
LABORATORY

ONGOING RENEWAL AND
REPLACEMENT – GRUBBS
HVAC

30154842

NO.	JUN 2025	ADD 1–	CODE REV	RB
DATE	ISSUED FOR	BY		

COPYRIGHT: ARCADIS U.S., INC.
2023

DATE: JUNE 2025

PROJECT NO.: 30154842

FILE NAME: A-02

DESIGNED BY: R. BELLO

DRAWN BY: D. MARTINS

CHECKED BY: E. DAWKINS

SHEET TITLE

ARCHITECTURAL

CODE CHART AND
NOTES

SCALE:

AS SHOWN

A-02

SHEET 13 OF 21

SECTION 26 05 05

GENERAL PROVISIONS FOR ELECTRICAL SYSTEMS

PART 1 GENERAL

1.1 DESCRIPTION

A. Scope:

1. Provide all labor, materials, equipment, and incidentals shown, specified, and required to complete the electrical Work.
2. The scope of work for this project primarily includes, but is not limited to, the following:
 - a. Installation of conduit and wiring to provide power to the new variable refrigerant flow (VRF) heat pump unit on the roof and six individual ceiling cassettes on the first floor.
 - b. Installation of disconnects for each of the six ceiling cassettes and the roof mounted VRF heat pump.
 - c. Provide 120 VAC power to laboratory airflow control system. Power will be distributed to the laboratory exhaust airflow control valves under the HVAC work.
3. The contractor shall reference the functional descriptions and other requirements found in Division 23, Heating, Ventilating and Air Conditioning, for additional requirements pertaining to work under this Contract. The Functional Descriptions referenced herein shall be considered as part of the work required under this Contract.
4. Utility Companies:
 - a. Electric Utility Company: No utility work will be performed as part of the Work.

B. Coordination:

1. Review installation procedures and schedules under other Specification Sections and coordinate with other trades the installation of electrical items that will be installed with or within formwork, walls, partitions, ceilings, and panels.
2. Coordination and Intent of Electrical Drawings:
 - a. Dimensions on Drawings related to equipment are based on equipment of certain manufacturers. Verify the dimensions of equipment furnished to space available at the Site and allocated to the equipment.
 - b. Drawings show the principal elements of the electrical Work and are not intended as detailed working drawings for the electrical Work. Drawings supplement and complement the Specifications and other Contract Documents relative to principal features of electrical systems.
 - c. Equipment and devices provided under this Contract shall be properly connected and interconnected with other equipment and devices for successful operation of complete systems, whether all connections and interconnections are specifically mentioned or shown in the Contract Documents.

- d. Drawings are provided for CONTRACTOR's guidance in fulfilling the intent of the Contract Documents. CONTRACTOR shall comply with Laws and Regulations, including safety and electrical codes, and provide materials, equipment, appurtenances, and specialty items necessary for complete and operable systems.
- 3. Obtain from OWNER record drawings required to execute the Work.
- 4. Field Coordination:
 - a. Provide materials, equipment, and services to interface with existing circuits. Field-verify system and equipment requirements prior to modifying existing systems.
 - b. Coordinate the interface of equipment with OWNER's personnel and field conditions.
- C. Area Classifications:
 - 1. Materials, equipment, and incidentals shall be suitable for the area classification(s) shown, specified, and required.
 - 2. Wet Locations: Comply with NEC and NEMA requirements for wet locations. Enclosures in wet locations shall comply with NEMA 4X unless specified otherwise.
 - 3. Corrosive Locations: Comply with NEC and NEMA requirements for corrosive locations. Enclosures in corrosive locations shall conform to NEMA 4X requirements unless specified otherwise.
 - 4. Hazardous Locations: Comply with NEC requirements for the Class and Division designated.
 - 5. Dusty Locations: Indoor areas not designated as hazardous, corrosive, or wet are dusty locations. Comply with NEC and NEMA 12 requirements unless specified otherwise.
 - 6. Outdoor locations shall be considered a corrosive location.
- D. Conduit and Cable Location Permissions:
 - 1. Outdoor areas: PVC coated RMC.
 - 2. Stud bays and above suspended ceiling: Type MC cable or EMT conduit.
 - 3. Exposed indoor areas: EMT.

1.2 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Electrical Contractor:
 - a. Electrical Subcontractor shall have not less than five years' experience installing electrical systems of the types required for the Project.
 - b. Electrical Subcontractor shall possess a valid electricians' and contractors' license in the jurisdiction where the Site is located.
 - c. Submit the following information for not less than three successful, completed projects: project name and location; year completed; name and contact information for: prime contractor for whom electrical Subcontractor worked, project owner, and project engineer or architect, including addresses and telephone numbers.

- B. Component Supply and Compatibility:
 - 1. Materials and equipment similar to each other shall be from the same manufacturer for uniformity.
- C. Regulatory Requirements:
 - 1. Permits: Refer to the General Conditions, Supplementary Conditions, and other parts of the Contract Documents for responsibilities relative to obtaining and paying for permits, licenses, and inspection fees.
 - 2. Codes:
 - a. ~~2020~~2017 edition of the National Electrical Code (NEC-~~2020~~2017).
 - b. ~~2021~~2018 Virginia Uniform Statewide Building Code (VUSBC).
 - c. Prince William County Building Code Interpretations.
 - d. All applicable local codes.

1.3 SUBMITTALS

- A. General:
 - 1. To the extent practical, submit Shop Drawings and other CONTRACTOR submittals for each Specification Section. Do not furnish partial submittals.
 - 2. Review of equipment submittals does not relieve CONTRACTOR of responsibility for providing complete and successfully operating systems.
 - 3. Shop Drawings and other CONTRACTOR submittals shall be submitted in Adobe PDF format and shall be searchable. Drawings included as part of the submittal shall also be searchable.
- B. Action Submittals: Submit the following:
 - 1. Shop Drawings:
 - a. List of components including manufacturer's name and catalog number (or part number) for each.
 - 2. Product Data:
 - a. Manufacturer's name and product designation or catalog number.
 - b. Electrical ratings.
 - c. Manufacturer's technical data and specifications.
 - d. Manufacturer's indication of compliance with applicable reference standards.
 - 3. Test Procedures: Proposed testing procedures and testing limitations for source quality control testing and field quality control testing.
- C. Informational Submittals: Submit the following:
 - 1. Manufacturer's Instructions:
 - a. Installation data and instructions.
 - b. Instructions for handling, starting up, and troubleshooting.
 - 2. Source Quality Control Submittals: Results for required shop testing.
 - 3. Field Quality Control Submittals: Results for required field testing.
 - 4. Qualifications:
 - a. Electrical Contractor.

- D. Closeout Submittals: Submit the following:
1. Record Documentation:
 - a. System Record Drawings: Include the following:
 - 1) Actual, in-place conduit and cable layouts with schedule of conduit sizes and number, and size of conductors.
 - 2) Layouts of the power distribution system.
 - 3) As-Built Electrical Drawings.
 - b. Record documents shall indicate final equipment and field installation information.

PART 2 PRODUCTS

2.1 SYSTEM PERFORMANCE

- A. Performance Criteria:
1. Electrical equipment shall be capable of operating successfully at full-rated load, without failure, with ambient outside air temperature of -30 degrees F to 104 degrees F and an elevation of 850 feet above mean sea level.
 2. Unless specified otherwise, electrical equipment shall have ratings based on 75 degrees C terminations for Low Voltage equipment and 90 degrees C terminations for Medium Voltage equipment.
- B. Testing Laboratory Labels: Electrical material and equipment shall bear the label of Underwriters' Laboratories, Inc., or other nationally recognized, independent testing laboratory, where standards have been established and label service applies and approved by the Authority Having Jurisdiction.

PART 3 EXECUTION

3.1 INSPECTION

- A. Examine conditions under which Work will be performed and notify ENGINEER in writing of conditions detrimental to the proper and timely completion of the Work. Do not proceed with Work until unsatisfactory conditions are corrected.

3.2 INSTALLATION

- A. General:
1. Install materials and equipment in accordance with the Contract Documents, Laws, and Regulations, approved (and accepted, as applicable) Shop Drawings and other CONTRACTOR submittals, and manufacturer's recommendations.
 2. Provide tools and equipment required to trace circuits necessary for proper execution of the Work.
 3. Define and identify all wiring, circuit terminations, and equipment to be modified to ensure proper interface of components. The Contract Price includes all costs associated with field services specified for a complete and functional system.

- B. Staging, Sequencing, and Coordination with Existing Facilities:
1. Schedule, sequence, and install materials and equipment in to maintain Owner's operations.
 2. Perform the Work in a manner that will not interfere with the existing equipment and facilities or cause interruption of the functions of the Site, unless specified otherwise or otherwise allowed by OWNER.
 3. OWNER's approval is required when operation of existing facilities and Site is to be disrupted due to CONTRACTOR's activity.
 4. Where the Work ties in with existing installations, take precautions and provide safeguards in connecting the Work to existing operating circuits to prevent interruption to existing circuits. Connection of Work to existing circuits shall be performed in the presence of OWNER and ENGINEER.
 5. Interruptions of existing circuits not addressed in other sections of the contract documents, shall be coordinated with the OWNER who will determine the length of time a circuit may be de-energized to maintain the OWNER's processes in dependable and safe operation.

3.3 FIELD QUALITY CONTROL

- A. Field Quality Control – General:
1. Perform field quality control for electrical Work in accordance with the Contract Documents.
- B. Site Tests:
1. Prior to requesting certificate of Substantial Completion, demonstrate to ENGINEER that electrical systems and electrically-operated equipment installed or modified under the Contract operates in accordance with the Contract Documents and operates as required
 2. Perform the following operational tests on electrical systems:
 - a. Operate power circuits to verify proper operation and connection to electrical systems materials and equipment.
 - b. Operate receptacle devices to verify proper operation and connections.
 3. Prepare and submit report on the equipment demonstration and operating field quality control tests. Report shall include complete information on the tests performed and results.

+ + END OF SECTION + +

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