



COMMONWEALTH OF VIRGINIA  
**County of Henrico**

DEPARTMENT OF FINANCE  
Purchasing Division

**Addendum No. 2**

**Date:** September 18, 2025  
**Invitation to Bid:** 25-2866-8JL – Henrico County Animal Shelter Renovation  
**Receipt Date/Time:** September 24, 2025 at 2:00 PM (**Changed**)  
**Opening Date/Time:** September 24, 2025 at 2:00 PM (**Changed**)  
**Subject:** Bid Receipt and Opening Date Revision, Questions & Answers, Modifications to the Project Manual, and Modifications to the Drawings

Prospective Bidder and Others Concerned,

The following changes, corrections, deletions, clarifications, and/or additions constitute Addendum No. 2:

**Bid Receipt and Opening Date Revision:**

1. The Bid Receipt Date is changed to September 24, 2025 at 2:00 PM.
2. The Bid Opening Date is changed to September 24, 2025 at 2:00 PM.

**Questions & Answers:**

1. Question: In Addendum 1 - Question 14 was responded to with the clarification for the Wet Sink being provided on a Sheet A7.1.1 annotation. The new annotation on sheet A7.1.1 provides direction to find Wet Sink details in the Plumbing Schedule on Sheet P6.1. The Plumbing Schedule was updated to reflect the changes to SK-3 but does not appear that the Wet Sink information has been added. We have scoured the AD-01 drawings and Specifications and can not seem to find any additional information for this Wet Sink outside of the new annotation on Sheet A7.1.1. Any direction or clarification in regards to this specific item would be greatly appreciated.

**Answer:** Refer to revised specification section 115300.

**Modifications to the Project Manual:**

1. Delete the previously issued SECTION 115300 – LABORATORY EQUIPMENT and substitute the revised specification.

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**Modification to the Drawings:**

1. Delete the previously issued drawing A7.1. and substitute the revised drawing.

All other general terms, conditions and specifications shall remain the same.

Bidders must take due notice and be governed accordingly. Acknowledgement of the receipt of this addendum shall be made on your Bid Form.

**Failure to acknowledge this addendum may result in your bid being declared non-responsive.**

Sincerely,

Jianchong Luo  
Purchasing Manager  
[Luo001@henrico.gov](mailto:Luo001@henrico.gov)

**SECTION 115300**  
**LABORATORY EQUIPMENT (\*AD-01) (\*AD-02)**

**PART 1 GENERAL**

**1.01 PRICE AND PAYMENT PROCEDURES**

- A. Refer to Section 012100 - Allowances, for lump sum allowances and associated requirements affecting this section. Allowances include indicated laboratory equipment (veterinary X-ray and surgery table) and includes furnish (purchase and delivery) and installation.

**1.02 REFERENCE STANDARDS**

- A. NEMA MG 00001 - Motors and Generators.

**1.03 ADMINISTRATIVE REQUIREMENTS**

- A. Coordination: Coordinate installation of laboratory equipment with laboratory casework and Owner-furnished, Owner-installed laboratory equipment.
- B. Preinstallation Meeting: Convene one week before starting work of this section.

**1.04 SUBMITTALS**

- A. Product Data: Provide equipment dimensions and construction; equipment capacities; physical dimensions; utility and service requirements, clearances, and locations; required accessories and optional features; point loads.
- B. Shop Drawings: Indicate equipment locations, large scale plans, elevations, cross sections, rough-in and anchor placement dimensions and tolerances, installation and servicing clearances required.
- C. Operation Data: Include description of equipment operation and required adjusting and testing.
- D. Maintenance Data: Identify system maintenance requirements, servicing cycles, lubrication types required and local spare part sources.

**1.05 DELIVERY, STORAGE, AND HANDLING**

- A. Package each piece of equipment to ensure protection from damage during shipment and delivery. Legibly indicate on the exterior of each container or crate, the shipping address and a brief description of its contents. Outside of the container, fasten a waterproof envelope containing a packing list and complete instructions for uncrating and setting the equipment in place.
- B. Protect finished surfaces during handling and installation with protective covering of polyethylene film or another suitable material.

**PART 2 PRODUCTS**

**2.01 EQUIPMENT**

- A. Contractor furnishes and installs equipment noted as CFCI.
- B. Each item energized by a single switch.
- C. Prewire and prepipe each unit of equipment complete with trim and fittings. Include reduced pressure or atmospheric type backflow preventer fitting to prevent backflow of polluted water or waste into water supply system or equipment. Comply with applicable code requirements.

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- D. Installation Accessories: Provide all rough-in frames, anchors, supports, accessories and closure trim required for complete installation.
- E. Use corrosion-resistant materials for all rivets, bolts, nuts, studs, spacers, and welding metal.
- F. Fully assemble equipment in factory, except for those items which cannot be moved to their final locations as single item due to new construction space restrictions.

### 2.02 STERILIZERS/AUTOCLAVE

- A. Sterilizer: (CFCI) Medium scientific sterilizer.
  - 1. Basis-of-Design: Tuttnauer; T-Edge11.
  - 2. General: High-performance sterilizer (autoclave) specifically designed for sterilizing or decontaminating laboratory items of many sizes and types, with programmable treatment options.
    - a. UL listed and/or approved electrical devices and components, bearing NEMA MG 00001, IEC or other recognized International ratings, as appropriate for the use intended. Low-voltage DC outputs external to the electrical box.
  - 3. Mounting: Countertop, free-standing.
  - 4. Chamber Interior Dimensions: 18 inch deep by 11 inch diameter; 27 liter.
  - 5. Doors: Number, type, and construction indicated.
    - a. Number of Doors: One.
    - b. Hinged, manual-type.
  - 6. Operator Controls: Digital type, with touch screen controls and multi-level menus.
  - 7. Control and Monitoring System: Controller, gauges, and wiring.
    - a. Controller: Microcomputer based controller monitoring and controlling all aspects of equipment cycle and process operations. Provide battery backup of microprocessor memory. Controller to ensure fully automatic operation through all equipment cycles.
    - b. Jacket and chamber pressure gauges.
    - c. Chamber capillary temperature gauge.
  - 8. Electrical Requirements: 120v, 60Hz.
  - 9. Include ethernet port, USB ports, and WiFi connectivity.
  - 10. Verify and coordinate water and drain connections with plumbing subcontractor to ensure proper sizing.
  - 11. Personnel Safety: Design units to integrate personnel safety features typical to the industry including, but not limited to:
    - a. Door operation limiters preventing operator from opening door(s) when unsafe conditions are present.
      - 1) When chamber is pressurized.
      - 2) When a liquid load is at an elevated temperature.

### 2.03 GLASSWARE WASHERS

- A. Glassware Washer: (CFCI) Undercounter capacity.
    - 1. ~~Basis-of-Design: Hobart; LXeC Chemical Sanitizing Undercounter Dishwashing Machine. (\*AD-01)~~
    - 2. Basis-of-Design: Hobart; Centerline CUL Chemical Sanitizing Undercounter Dishwasher. (\*AD-01)
    - 3. General: High-performance commercial-quality washer specifically designed for cleaning laboratory glassware of many sizes and types, with programmable treatment options and controlled intake of chemicals.
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- a. UL listed and/or approved electrical devices and components, bearing NEMA MG 00001, IEC or other recognized International ratings, as appropriate for the use intended. Low-voltage DC outputs external to the electrical box.
4. Mounting: On floor, undercounter.
5. **Heating: ~~Steam Electric.~~ (\*AD-01)**
6. Doors: Number, type, and construction indicated.
  - a. **Number of Doors: ~~Two~~ One. (\*AD-01)**
  - b. Operation: Front, drop-down, manually-operated, spring counterbalanced; capable of supporting full glassware load and functioning as a loading platform to eliminate the requirement for a loading trolley; double-wall construction; insulated to minimize noise and surface temperature.
  - c. **~~Double-pane tempered glass viewing panel.~~ (\*AD-01)**
  - d. Gaskets: Manufacturer's standard for type door specified, manufactured to withstand temperatures and pressures generated.
7. Interior Illumination: Manufacturer's standard luminaire(s) located on top of the Washer, complete with electronic ballast, gasketed tempered safety glass diffuser, and using fluorescent lamps.
8. **Washing System: ~~Manufacturer's standard, configured for two-level loading and washing, and rinse water source options.~~ (\*AD-01)**
9. Electrical Requirements: 120v, 60 Hz, 20 A circuit.
10. Operator Controls: Digital type, with touch screen controls and multi-level menus.
11. Personnel Safety: Integrated personnel safety features typical to the industry.

#### 2.04 VETERINARY PASS-THRU CABINET

- A. General: Provide 18 gauge, Type 304 stainless steel framed thru-wall wall-mounted cabinet, with tempered glass door infill on both sides.
  1. Size (basis-of-design): 36 inches wide by 36 inches high by 12 inches deep, with two adjustable glass shelves.
  2. Manufacturers:
    - a. Basis-of-Design: TriStar Vet; Veterinary Pass-Thru Medical Window Cabinet 700-50.
    - b. Continental Metal Products.
    - c. Terra Universal.

#### 2.05 VETERINARY FIXED HEIGHT WET/PREP TABLE WITH CABINETS (\*AD-02)

- A. **General: Provide 18 gauge, type 304 stainless steel wet treatment table with overhang; 60 inches long by 24 inches deep by 36 inches high. Table shall include two undertable cabinets: one three drawer cabinet and one single door cabinet. Provide with plumbing cutouts.**
  1. **Tub: Provide with minimum 3 inch deep tub that slopes to drain. Include stainless steel racks and strainer basket.**
  2. **Faucet: Provide with manufacturer's accessory gooseneck faucet with an 84 inch long sprayer hose. Coordinate with Division 22 Plumbing specifications and Drawings for plumbing rough-in.**
  3. **Manufacturers:**
    - a. **Basis-of-Design Product: Midmark # 109-7428-142.**
    - b. **TriStar Vet.**
    - c. **Suburban Surgical.**

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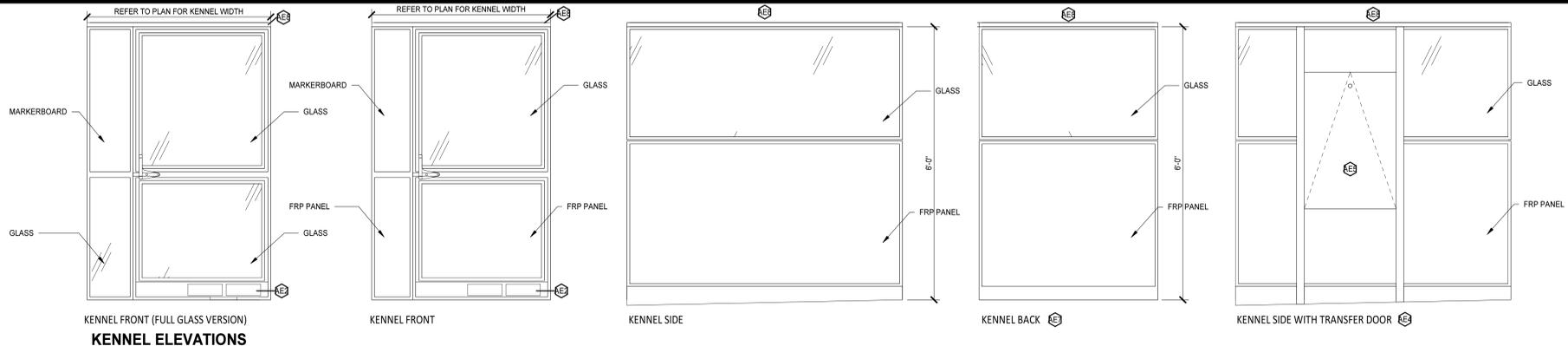
**2.06 NARCOTICS SAFE**

- A. General: Provide locking, wall-mounted narcotic cabinet. Safe shall include double door system with separate key for each door. DEA-compliant for secure storage of Schedule III, IV, and V controlled substances. Fabricate of heavy duty 20-gauge steel, fully welded construction.
  - 1. Size (basis-of-design): Minimum 16 inch wide by 24 inch high by 8 inch deep, with minimum two adjustable steel shelves.
  - 2. Provide full length piano hinges with non-removable pins.
  - 3. Key Function: Key cannot be removed from door while door is in the unlocked position.
  - 4. Manufacturers:
    - a. Basis-of-Design Product: Graham Field; Model 3008 Narcotic Safe.
    - b. OmniMed, Inc.
    - c. Midmark.

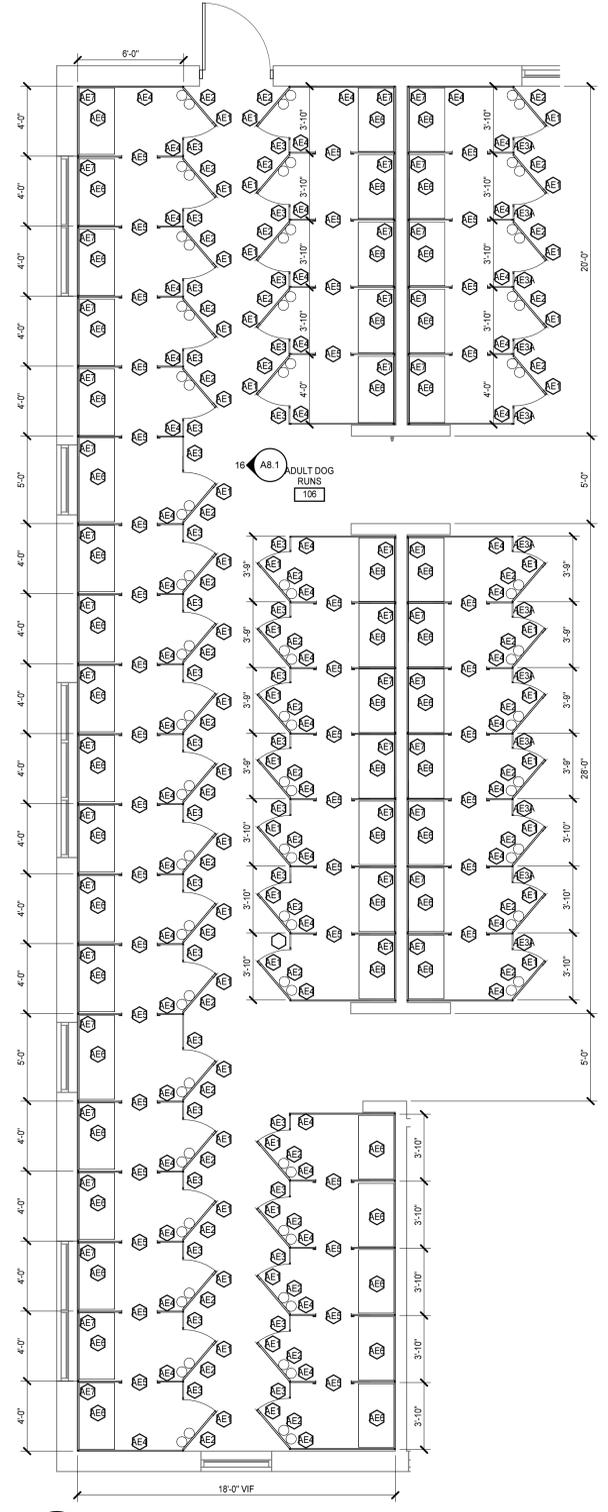
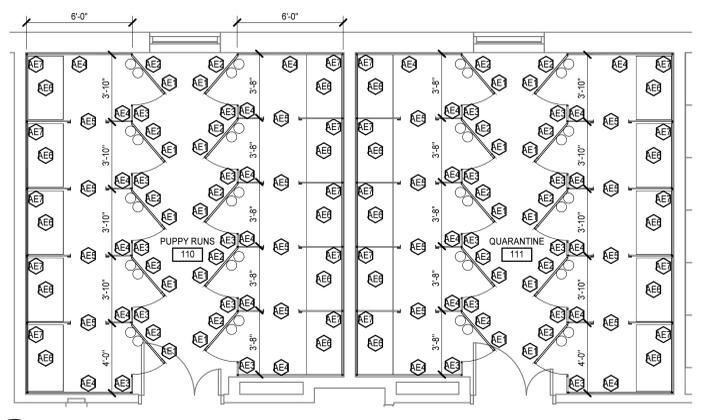
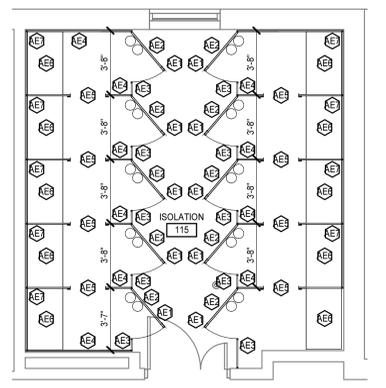
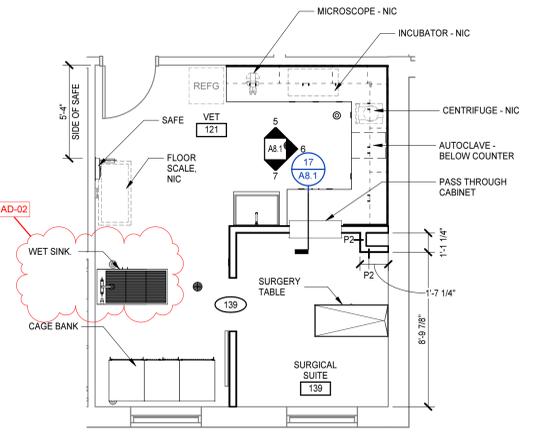
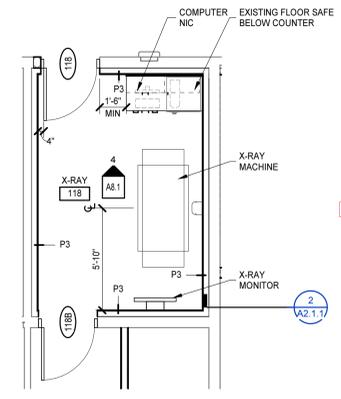
**2.07 EQUIPMENT TO BE PROVIDED VIA ALLOWANCE**

- A. X-Ray: Furnish and install veterinary X-ray device via lump sum allowance. Refer to Division 1 Section "Allowances."
- B. Hydraulic Surgery Table: Furnish and install veterinary hydraulic surgery table via lump sum allowance. Refer to Division 1 Section "Allowances."

**END OF SECTION 115300**



ANIMAL EQUIPMENT SCHEDULE		
NO	DESCRIPTION	NOTES
AE1	KENNEL DOOR	
AE2	FOOD AND WATER BOWL FEEDER	
AE3	KENNEL FRONT	
AE3A	KENNEL FRONT - FULL GLASS	
AE4	KENNEL SIDE	
AE5	TRANSFER DOOR	
AE6	FLIP-UP REST BENCH	
AE7	KENNEL BACK	
AE8	KENNEL TOP	PROVIDE KENNEL TOP FOR ALL KENNELS



PROJECT NO:	615225
DATE:	AUGUST 18, 2025
REVISIONS	
DATE	DESCRIPTION
09/17/25	AD-01
09/18/25	AD-02

ENLARGED PLANS

A7.1.1