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ADDENDUM NUMBER 3

Project: **C. Wayne Stevens, Jr. Public Safety Facility**
Highlands Business Park – Owens Drive
Glade Spring, VA 24340

Date: **June 12, 2026**

The following revisions, deletions, additions, amendments, modifications, and clarifications are hereby made part of the Construction Documents for the Project referenced above and shall supersede or otherwise modify the original documents dated January 30, 2026, in the manner and to the extent stated below. Receipt of this Addendum shall be acknowledged in the space provided on the Bid Form.

GENERAL

1. **By this Addendum, the Bid Date has changed. Bids will now be received on Thursday, June 25, 2026, until 2:00 p.m.**
2. Bidder asks if there is a detail for the trench drains in the Additive Bid Item #1 portion of the work. Yes, refer to detail 2/C504.
3. Bidder asks if there are any details for the sediment basin. Yes, Drawing C203, "Wet Pond Details" was provided with Addendum #2.
4. Bidder asks if there are any utility drawings that provide more information. Architect is uncertain what Bidder needs. Drawing P101 indicates 4" sanitary sewer line on the east side of the building. Drawing C101 picks up that line and indicates connection to existing sewer line. Drawing P201 indicates a 2-inch domestic water line entering the building on the east side of the building. Drawing C101 picks up that line and indicates connection to existing water line. Piping shall be 2" HDPE water pipe to meter with a 2" meter.

SPECIFICATIONS

1. **Refer to the Table of Contents:** The T of C indicates that Section 092116, "Non Structural Metal Framing" would be provided by Addendum #1. This Section will not be provided. Stud sizes and gauges are indicated in the "Partition Key Notes" on Drawing A101. All studs shall be set at 16-inches on center. Metal studs shall be manufactured in the United States to comply with the Build America / Buy America Act.
2. **Refer to the Table of Contents:** The T of C indicates that Section 095113, "Acoustical Panel Ceilings" would be issued by Addendum #1. This Section will not be provided. Acoustical ceiing panels and suspension system manufacturers are indicated on Drawing A105, "Reflected Ceiling Plan."
3. **Refer to the Table of Contents:** The T of C indicates that Section 096513, "Resilient Base and Accessories" would be issued by Addendum #1. This Section will not be provided. 4-inch coved rubber base, as manufactured in the United States by Armstrong Flooring, Johnsonite (Tarkett),

Mannington, or Roppe are acceptable products. Coved rubber base shall be adhered to the wall with the approved manufacturers preferred adhesive.

4. **Refer to the Table of Contents:** The T of C indicates that Section 101419, "Dimensional Letter Signage" would be issued by Addendum #1. This Section will not be provided. Cast aluminum lettering, as manufactured by Gemini, Inc. is scheduled on Drawing A606, "Building Identification Signage Layout".
5. **Refer to the Table of Contents:** The T of C indicates that Section 102239, "Folding Panel Partition" would be issued by Addendum #1. This Section will not be provided. A Basis of Design folding panel partition is scheduled on Drawing A402, "Office / Dayroom Area Enlarged Floor Plan / Interior Elevations." See Details "A" and "C" for clarification.
6. **Refer to the Table of Contents:** The T of C indicates that Section 105113, "Metal Lockers" would be issued by Addendum #1. This Section will not be provided. Penco Products, Inc. is noted as a Basis of Design manufacturer on Drawing A401 for the turnout gear lockers. Other manufacturers for the turnout gear lockers and the single-tier lockers indicated on Drawing A403 include, but are not limited to, Hollman, Inc., Lyon Workspace, and Republic Storage Products.
7. **Refer to the Table of Contents:** The T of C indicates that Section 107516, "Ground Set Flagpoles" would be issued by Addendum #1. This Section will not be provided. Acme / Lingo Flagpole Company is noted as an acceptable manufacturer on Drawing C503, "Site Amenity Details". The flagpole shall be nominally 5-inches in diameter x 25-feet high. Other acceptable manufacturers who regularly manufacture flagpoles in the United States include Concord American Flagpole (HAPCO), and Annin Flagmakers.
8. **Refer to the Table of Contents:** The T of C indicates that Section 321713, "Parking Bumpers" would be issued by Addendum #1. This Section will not be provided. A precast concrete wheelstop detail is provided on Drawing C503, "Site Amenity Details". Any precast concrete parking bumper (wheelstop) manufactured in the United States is acceptable.
9. **Refer to the Table of Contents:** The T of C indicates that Section 321726, "Tactile Warning Surfacing" would be issued by Addendum #1. This Section will not be provided. The truncated domed tactile warning strips are indicated on Drawing C401, "Enlarged Site Layouts." Contractor may provide the type of mat that is placed as the concrete is cast or provide the type that is secured / adhered to the concrete after the concrete has cured. Architect prefers the latter. Acceptable manufacturers include, but are not limited to, ADA Solutions, Armor-Tile, and Access Tile.
10. **Refer to the Table of Contents:** The T of C indicates that Section 329300, "Plants" would be issued by Addendum #1. This Section will not be provided. Plants are indicated on Drawing L101, "Landscape Plan." Mulch at planting beds shall be bagged shredded hardwood mulch. Bulk mulch that has not cured is not acceptable.
11. **Refer to Terms and Conditions of Bid:** At paragraph A, "Submittal of Bid", second paragraph the text reads: "Sealed Bids may be submitted electronically through eVA (eVA.virginia.gov) but it is NOT a requirement." To clarify: If the Contractor chooses to submit their response electronically, this does NOT relieve them of the responsibility of submitting one complete hard copy of the bid and other required documents. The County DOES require that a hard copy of the bid and other required documents be submitted by regular mail delivery or be hand-delivered to Tammy Sturgill, Director of Budget & Finance. Hard copy of the bid and other required documents must be received prior to 2:00 p.m. bid opening on Thursday, June 25, 2026.

12. **Refer to Terms and Conditions of Bid:** At paragraph C, "Form of Bid" and paragraph D, "Bid Bond or Guarantee", please make note of all items that must be submitted with Bid. These items include:
    a. Completed Bid Form using form provided in the Project Manual, signed in ink,
    b. References using the form provided in the Project Manual,
    c. Lobbying certification using form provided in the Project Manual,
    d. Certification regarding debarment and suspension using the form provided in the Project Manual,
    e. A Bid Bond or Guarantee.
    f. All submitted within an outer envelope bearing name of Project, Bidder's name, and address. Note also that Bidder is a licensed Class A Virginia Contractor by providing the license number on the outside envelope.

    Failure to include all items may result in rejection of Bid.

13. **Refer to Section 0075323, "EPDM Roofing Membrane":** TPO membranes are an acceptable substitute for EPDM membranes, however, the TPO membrane needs to be 80-mil. to match the puncture resistance and durability of a 60-mil EPDM. Acceptable manufacturers include, but are not limited to, Carlisle SynTec Systems "Sure-Weld" TPO, GAF "Everguard" TPO, and Johns Manville "JM TPO".
14. **Refer to Section 083613, "Sectional Overhead Doors":** Bidder requested Basis of Design product. Acceptable manufacturers include, but are not limited to: CHI Overhead Doors, "Full View Aluminum Series", Clopay Corporation, "Architectural Series", and Overhead Doors, "511/521 Series".
15. **Refer to Section 087100, "Door Hardware":** This Section has been revised and is reissued. The Door Hardware Schedule has been added.
16. **Refer to Section 092116, "Non-Structural Metal Framing":** The Project Manual Table of Contents indicates this Section would be provided by Addendum #1. This Section will not be provided. Stud sizes and gauges are indicated in the "Partition Key Notes" on Drawing A101. All studs shall be set at 16-inches on center. Metal studs shall be manufactured in the United States to comply with the Build America / Buy America Act.

DRAWINGS

1. **Refer to Drawing T100, "Title Sheet / Drawing Index / Location Information":** The Drawing Index has been updated to indicate drawings issued with previous Addenda and to indicate the latest revision of each drawing.
2. **Refer to Drawing G102, "Security Floor Plan":** This Drawing indicates eleven (11) exterior doors and one (1) interior door where a card swipe reader or a thumb print reader will be provided by the Owner. At these locations, the Drawing requires a single gang box and a 3/4" conduit to 6-inches above the ceiling. At each of these locations, the Contractor shall also provide a 3/4" conduit from the hollow metal door frame jamb strike to 6-inches above the ceiling. This additional conduit shall be provided for the electric strikes specified in Section 087100, "Door Hardware."

3. **Refer to Drawing C101, "Site Grading Plan" and Drawing C501, "Construction Details":** The "Typical Paved Parking Section on Drawing C501 indicates a 14-inch section of "heavy duty pavement." This section is not required at the parking area on the east side (front) of the building. Projecting a line from the northeast corner of the Apparatus Bay concrete apron to the east to where it abuts the radiused area that defines the parking area, the pavement section may be 11-inches, consisting of 2" SM-9.5A, 3" BM-25.0, and 6" base.
4. **Refer to Drawing A303, "Building Section – North":** The light fixture above the vanities in Bathrooms 103A and 104A is scheduled to be a Regency Hill "Mencino Opal" light fixture. This fixture is not manufactured in the United States and, therefore, does not meet the requirements of the Build America / Buy America Act. Bidders are instructed to include in their bid the value of the scheduled light fixture. The Architect will locate an acceptable BABAA compliant substitute prior to shop drawing submittal.
5. **Refer to Drawing A604, "Finish Schedule / Toilet Accessory Schedule":** Drawing A702 was released as a part of Bid Addendum #2. Drawing A604 is revised, by this Addendum, to reflect the floor finishes indicated on Drawing A702.
6. **Refer to Drawing A701, "Finishes Floor Plan":** Drawing A702 was released as a part of Bid Addendum #2. Drawing A701 is revised, by this Addendum, to reflect the floor finishes indicated on Drawing A702.
7. **Refer to Drawing MPE101, "Mechanical Provisions", and Drawing M101, "Mechanical Floor Plan":** The HVAC Equipment Schedule on Drawing M101 lists Carrier and Mitsubishi as manufacturers. Bidder suggests these are not manufactured in the United States and, therefore, not BABAA compliant. The mini-split unit, specified solely for the IT / Electrical Room, is the Mitsubishi unit. Bidders shall base their bid on this scheduled unit because there are currently no mini-split units manufactured in the United States and thus no suitable substitutes. Regarding the four Carrier packaged units, research suggests that some Carrier units are manufactured in the United States and some are not. Therefore, if the units scheduled are not BABAA compliant, the scheduled units shall be considered as defining the level of quality and options desired on the HVAC units.
8. **Refer to Drawing E101, "Lighting Floor Plan":** The Lighting Fixture Schedule lists Lithonia light fixtures that are not manufactured in the United States and, therefore, do not meet the requirements of the Build America / Buy America Act. Bidders shall substitute the following for bidding purposes:
    a. Surface mounted emergency exit / lighting unit: Substitute LHQM (with BAA Option) for ECRG.
    b. Emergency battery backup luminaire: Substitute ERE (BAA) for ERE.
    c. For Fixture type A, B, D, F, G, and K, add (BAA) to the scheduled fixture number, like shown in item "b", above.
    d. For Fixture type C, add (BAA) to the scheduled fixture number, like shown in item "b", above, or substitute Lithonia LBL4 4000LM 80CRI 40K MIN10 GZT MVOLT (BAA).
    e. For Fixture type M, substitute Lithonia ESXF1 ALO SWW2 KY DDB M2.
    f. Fixtures type L and N appear to be BABAA compliant, as scheduled.
9. **Refer to Drawing MPE102, "Electrical Provisions" and Drawing E105, "Electrical Site Plan":** Bidders have noted their inability to get a quote from Appalachian Power Company for bringing required electrical power to the site and providing the transformer. For bidding purposes, Bidders shall include a sum of thirty thousand dollars ($30,000.00) for that portion of the work. The cost of the concrete transformer pad and for Contractor's time coordinating with

Appalachian Power Company shall not be a part of the Allowance but should be included as part of the Base Bid. The Allowance is for payment to the electrical utility. Upon completion of Appalachian Power Company's work, the Contractor shall provide a copy of the actual invoiced cost, including freight and applicable taxes, but excluding Contractor's overhead and profit, which is included in the base contract. The difference between the allowance amount and the actual invoiced cost, whether an underage or overage, shall be resolved by Change Order.

END OF ADDENDUM NO. 3 (34 pages, including attachments)

SECTION 084113 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Aluminum-framed entrance and storefront systems.

1.2 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.3 ACTION SUBMITTAL

A. Product data.

B. Shop Drawings:

1. Plans, elevations, sections, full-size details, and attachments to other work.
2. Connection to and continuity with adjacent thermal, weather, air, and vapor barriers.
3. Point-to-point wiring diagrams.

C. Samples: Manufacturer's standard color sheets, showing full range of available colors for each type of exposed finish.

D. Entrance Door Hardware Schedule: Prepared by or under supervision of supplier, detailing fabrication and assembly of entrance door hardware, as well as procedures and diagrams.

E. Delegated Design Submittals: For aluminum-framed entrance and storefront systems, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.4 INFORMATIONAL SUBMITTALS

A. Energy Performance Certificates: NFRC-certified energy performance values from manufacturer.

B. Product test reports.

C. Source quality-control reports.

D. Field quality-control reports.

E. Sample warranties.

1.5 CLOSEOUT SUBMITTALS

A. Operation and maintenance data.

1.6 QUALITY ASSURANCE

A. Installer Qualifications:

1. Fabricator of products.
2. Entity that employs installers and supervisors who are trained and approved by manufacturer.
3. Authorized representative who is trained and approved by manufacturer.
4. Entity that is certified under the North American Contractor Certification Program (NACC) and that employs installers and supervisors who are trained and approved by manufacturer.

B. Delegated Design Engineer Qualifications: A professional engineer who is legally qualified to practice in the Commonwealth of Virginia where Project is located and who is experienced in providing engineering services of the type indicated.

C. Testing Agency Qualifications: Qualified in accordance with ASTM E699 for testing indicated.

D. Egress Door Inspector Qualifications:

1. Inspector for field quality-control inspections of egress door assemblies to comply with qualifications set forth in NFPA 101, Ch. 7 "Means of Egress," Section "Means of Egress Components," Article "Inspection of Door Openings."
2. Inspector for field quality-control inspections of egress door assemblies to be certified under DHI's certification program as a Fire and Egress Door Assembly Inspector (FDAI) or a Certified Fire and Egress Door Assembly Inspector (CFDAI).

E. Product Options: Information on Drawings and in Specifications establishes requirements for aesthetic effects and performance characteristics of assemblies. Aesthetic effects are indicated by dimensions, arrangements, alignment, and profiles of components and assemblies as they relate to sightlines, to one another, and to adjoining construction.

1. Do not change intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If changes are proposed, submit comprehensive explanatory data to Architect for review.

1.7 WARRANTY

A. Special Warranty: Manufacturer and Installer agree to repair or replace components of aluminum-framed entrance and storefront systems that fail in materials or workmanship within specified warranty period.

1. Warranty Period: Five (5) years from date of Substantial Completion.

B. Special Finish Warranty, Anodized Finishes: Standard form in which manufacturer agrees to repair finishes or replace aluminum that shows evidence of deterioration of anodized finishes within specified warranty period.

1. Warranty Period: Five (5) years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design aluminum-framed entrance and storefront systems.

B. General Performance: Comply with performance requirements specified, as determined by testing of aluminum-framed entrance and storefront systems representing those indicated for this Project without failure due to defective manufacture, fabrication, installation, or other defects in construction.

1. Aluminum-framed entrance and storefront systems to withstand movements of supporting structure, including, but not limited to, twist, column shortening, long-term creep, and deflection from uniformly distributed and concentrated live loads.
2. Failure also includes the following:

a. Thermal stresses transferring to building structure.
b. Glass breakage.
c. Noise or vibration created by wind and thermal and structural movements.
d. Loosening or weakening of fasteners, attachments, and other components.
e. Failure of operating units.

C. Structural Loads:

1. Wind Loads: As indicated on Drawings.

D. Deflection of Framing Members Supporting Glass: At design wind load, as follows:

1. Deflection Normal to Wall Plane: Limited to 1/175 of clear span for spans of up to 13 feet 6 inches and to 1/240 of clear span plus 1/4 inch for spans greater than 13 feet 6 inches.
2. Deflection Parallel to Glazing Plane: Limited to [amount not exceeding that which reduces glazing bite to less than 75 percent of design dimension and that which reduces edge clearance between framing members and glazing or other fixed components to less than 1/8 inch.

a. Operable Units: Provide a minimum 1/16-inch clearance between framing members and operable units.

E. Structural: Test in accordance with ASTM E330/E330M as follows:

1. When tested at positive and negative wind-load design pressures, storefront assemblies, including entrance doors, do not evidence deflection exceeding specified limits.
2. When tested at 150 percent of positive and negative wind-load design pressures, storefront assemblies, including entrance doors and anchorage, do not evidence material failures, structural distress, or permanent deformation of main framing members exceeding 0.2 percent of span.
3. Test Durations: As required by design wind velocity, but not less than 10 seconds.

F. Water Penetration under Static Pressure: Test in accordance with ASTM E331 as follows:

1. No evidence of water penetration through fixed glazing and framing areas, including entrance doors, when tested in accordance with a minimum static-air-pressure differential of 20 percent of positive wind-load design pressure, but not less than 6.24 lbf/sq. ft. The IECC and ASHRAE/IES 90.1 require that all fenestration be certified and labeled by manufacturer for energy performance for thermal transmittance (U-factor), Solar Heat-Gain Coefficient (SHGC), air leakage, and visible transmittance (VT). Energy performance for fenestration products is typically determined for the whole fenestration product or system, which includes the framing, glazing, and the spacer. Coordinate the values selected for energy performance with the glazing selections in Section 088000 "Glazing," and confirm that manufacturer can meet the specified energy performance and can provide certification and labeling. Verify requirements of authorities having jurisdiction.

G. Energy Performance: Certified and labeled by manufacturer for energy performance as follows:

1. Thermal Transmittance (U-factor):

   a. Fixed Glazing and Framing Areas: U-factor for the system of not more than 0.41 Btu/sq. ft. x h x deg F as determined in accordance with NFRC 100.
   b. Entrance Doors: U-factor of not more than [0.68 Btu/sq. ft. x h x deg F as determined in accordance with NFRC 100.

2. Solar Heat-Gain Coefficient (SHGC):

   a. Fixed Glazing and Framing Areas: SHGC for the system of not more than 0.25 to 0.35 as determined in accordance with NFRC 200.
   b. Entrance Doors: SHGC of not more than 0.25 to 0.45 as determined in accordance with NFRC 200.

3. Air Leakage:

   a. Fixed Glazing and Framing Areas: Air leakage for the system of not more than 0.06 cfm/sq. ft. at a static-air-pressure differential when tested in accordance with ASTM E283.
   b. Entrance Doors: Air leakage of not more than 1.0 cfm/sq. ft. at a static-air-pressure differential of 1.57 lbf/sq. ft.

4. Condensation Resistance Factor (CRF):

a. Fixed Glazing and Framing Areas: CRF for the system of not less than 50 as determined in accordance with AAMA 1503.
b. Entrance Doors: CRF of not less than 68 as determined in accordance with AAMA 1503.

H. Windborne-Debris Impact Resistance: Passes ASTM E1886 missile-impact and cyclic-pressure tests in accordance with ASTM E1996 for Wind Zone 1 for basic protection.

1. Large-Missile Test: For glazing located within 30 feet of grade.

I. Thermal Movements: Allow for thermal movements resulting from ambient and surface temperature changes.

1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

2.2 ALUMINUM-FRAMED ENTRANCE AND STOREFRONT SYSTEMS

A. Framing Members: Manufacturer's extruded- or formed-aluminum framing members of thickness required and reinforced as required to support imposed loads.

1. Exterior Framing Construction: Thermally broken.
2. Interior Vestibule Framing Construction: Nonthermal.
3. Glazing System: Retained mechanically with gaskets on four sides.
4. Finish: Clear anodic finish.
5. Fabrication Method: Field-fabricated stick system.
6. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.
7. Steel Reinforcement: As required by manufacturer.

B. Backer Plates: Manufacturer's standard, continuous backer plates for framing members, if not integral, where framing abuts adjacent construction.

C. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with nonstaining, nonferrous shims for aligning system components.

D. Entrance Doors: Manufacturer's standard glazed entrance doors for manual-swing or automatic operation.

1. Door Construction: 1-3/4-inch overall thickness, with minimum 0.125-inch-overall thickness, extruded-aluminum tubular rail and stile members. Mechanically fasten corners with reinforcing brackets that are deeply penetrated and fillet welded or that incorporate concealed tie rods.

a. Thermal Construction: High-performance plastic connectors separate aluminum members exposed to the exterior from members exposed to the interior

2. Door Design: Medium stile; 3-1/2-inch nominal width.
3. Glazing Stops and Gaskets: Square, snap-on, extruded-aluminum stops and preformed gaskets.

a. Provide nonremovable glazing stops on outside of door.

2.3 ENTRANCE DOOR HARDWARE

A. Entrance Door Hardware: Hardware not specified in this Section is specified in Section 087100 "Door Hardware.".

1. Entrance Door Hardware Sets: Provide quantity, item, size, finish or color indicated, and products complying with BHMA standard referenced.
2. Sequence of Operation: Provide electrified door hardware function, sequence of operation, and interface with other building control systems indicated.
3. Opening-Force Requirements:

a. Egress Doors: Not more than 15 lbf to release the latch and not more than 30 lbf to set the door in motion and not more than 15 lbf to open the door to its minimum required width.
b. Accessible Interior Doors: Not more than 5 lbf to fully open door.

B. Designations: Requirements for design, grade, function, finish, quantity, size, and other distinctive qualities of each type of entrance door hardware are indicated in "Entrance Door Hardware Sets" Article. Products are identified by using entrance door hardware designations as follows:

1. References to BHMA Standards: Provide products complying with these standards and requirements for description, quality, and function.

C. Pivot Hinges: BHMA A156.4, Grade 1.

1. Offset-Pivot Hinges: Provide top, bottom, and intermediate offset pivots at each door leaf.

D. Butt Hinges: BHMA A156.1, Grade 1, radius corner.

1. Nonremovable Pins: Provide setscrew in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while entrance door is closed.
2. Exterior Hinges: Stainless steel, with stainless steel pin.
3. Quantities:

a. For doors up to 87 inches high, provide three hinges per leaf.

E. Continuous-Gear Hinges: BHMA A156.26.

F. EPT preparation in door & frame will be required on active leafs where card readers are scheduled. Coordinate with Division 087100

G. Mortise Auxiliary Locks: BHMA A156.5, Grade 1.

H. Panic Exit Devices: BHMA A156.3, Grade 1, listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for panic protection, based on testing in accordance with UL 305. Modern style rail panic bars are required so that ELR adaptions can be made by owner security contractor.

I. Cylinders:

1. As specified in Section 087100 "Door Hardware."
2. BHMA A156.5, Grade 1.

a. Keying: Master key system. Permanently inscribe each key with a visual key control number and include notation "DO NOT DUPLICATE" to be furnished by Owner.

J. Strikes: Provide strike with black-plastic dust box for each latch or lock bolt; fabricated for aluminum framing.

K. Operating Trim: BHMA A156.6.

L. Removable Mullions: BHMA A156.3 extruded aluminum.

1. When used with panic exit devices, provide[**keyed**] removable mullions listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for panic protection, based on testing in accordance with UL 305. Use only mullions that have been tested with exit devices to be used.

M. Closers: BHMA A156.4, Grade 1, with accessories required for a complete installation, sized as required by door size, exposure to weather, and anticipated frequency of use; adjustable to comply with field conditions and requirements for opening force.

N. Concealed Overhead Holders and Stops: BHMA A156.8, Grade 1.

O. Door Stops: BHMA A156.16, Grade 1, floor or wall mounted, as appropriate for door location indicated, with integral rubber bumper.

P. Weather Stripping: Manufacturer's standard replaceable components.

1. Compression Type: Made of ASTM D2000 molded neoprene or ASTM D2287 molded PVC.
2. Sliding Type: AAMA 701/702, made of wool, polypropylene, or nylon woven pile with nylon-fabric or aluminum-strip backing.

Q. Weather Sweeps: Manufacturer's standard exterior-door bottom sweep with concealed fasteners on mounting strip.

R. Thresholds: BHMA A156.21 raised thresholds beveled with a slope of not more than 1:2, with maximum height of 1/2 inch.

2.4 GLAZING

A. Glazing: Comply with Section 088000 "Glazing."

B. Glazing Gaskets: Manufacturer's standard sealed-corner pressure-glazing system of black, resilient elastomeric glazing gaskets, setting blocks, and shims or spacers.

2.5 MATERIALS

A. Sheet and Plate: ASTM B209.

B. Extruded Bars, Rods, Profiles, and Tubes: ASTM B221.

C. Structural Profiles: ASTM B308/B308M.

D. Steel Reinforcement:

1. Structural Shapes, Plates, and Bars: ASTM A36/A36M.
2. Cold-Rolled Sheet and Strip: ASTM A1008/A1008M.
3. Hot-Rolled Sheet and Strip: ASTM A1011/A1011M.

E. Steel Reinforcement Primer: Manufacturer's standard zinc-rich, corrosion-resistant primer complying with SSPC-PS Guide No. 12.00; applied immediately after surface preparation and pretreatment. Select surface preparation methods in accordance with recommendations in SSPC-SP COM, and prepare surfaces in accordance with applicable SSPC standard.

2.6 FABRICATION

A. Form or extrude aluminum shapes before finishing.

B. Weld in concealed locations to greatest extent possible to minimize distortion or discoloration of finish. Remove weld spatter and welding oxides from exposed surfaces by descaling or grinding.

C. Fabricate components that, when assembled, have the following characteristics:

1. Profiles that are sharp, straight, and free of defects or deformations.
2. Accurately fitted joints with ends coped or mitered.
3. Physical and thermal isolation of glazing from framing members.
4. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.
5. Provisions for field replacement of glazing from interior for vision glass and exterior for spandrel glazing or metal panels.
6. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.

D. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.

E. Entrance Door Frames: Reinforce as required to support loads imposed by door operation and for installing entrance door hardware.

F. Entrance Doors: Reinforce doors as required for installing entrance door hardware.

G. Entrance Door Hardware Installation: Factory install entrance door hardware to the greatest extent possible. Cut, drill, and tap for factory-installed entrance door hardware before applying finishes.

H. After fabrication, clearly mark components to identify their locations in Project in accordance with Shop Drawings.

2.7 ALUMINUM FINISHES

A. Clear Anodic Finish: AAMA 611 or thicker.

PART 3 - EXECUTION

3.1 INSTALLATION OF ALUMINUM-FRAMED ENTRANCE AND STOREFRONT SYSTEMS

A. Comply with manufacturer's written instructions.

B. Do not install damaged components.

C. Fit joints to produce hairline joints free of burrs and distortion.

D. Rigidly secure nonmovement joints.

E. Install anchors with separators and isolators to prevent metal corrosion and electrolytic deterioration and to prevent impeding movement of moving joints.

F. Seal perimeter and other joints watertight unless otherwise indicated.

G. Metal Protection:

1. Where aluminum is in contact with dissimilar metals, protect against galvanic action by painting contact surfaces with materials recommended by manufacturer for this purpose or by installing nonconductive spacers.
2. Where aluminum is in contact with concrete or masonry, protect against corrosion by painting contact surfaces with bituminous paint.

H. Set continuous sill members and flashing in full sealant bed, as specified in Section 079200 "Joint Sealants," to produce weathertight installation.

I. Install joint filler behind sealant as recommended by sealant manufacturer.

J. Install components plumb and true in alignment with established lines and grades.

K. Install entrance doors to produce smooth operation and tight fit at contact points.

1. Exterior Doors: Install to produce weathertight enclosure and tight fit at weather stripping.
2. Field-Installed Entrance Door Hardware: Install surface-mounted entrance door hardware in accordance with entrance door hardware manufacturers' written instructions using concealed fasteners to greatest extent possible.

L. Install glazing as specified in Section 088000 "Glazing."

3.2 FIELD QUALITY CONTROL

A. Testing Agency: Engage a qualified testing agency to perform tests.

B. Tests: Perform the following test on representative areas of aluminum-framed entrance and storefront systems.

1. Water-Spray Test: Before installation of interior finishes has begun, areas designated by Architect to be tested in accordance with AAMA 501.2 and to not evidence water penetration.

a. Perform a minimum of two tests in areas as directed by Architect.

2. Air Leakage: ASTM E783 at 1.5 times the rate specified for laboratory testing in "Performance Requirements" Article but not more than 0.09 cfm/sq. ft. at a static-air-pressure differential of 1.57 lbf/sq. ft.

a. Perform a minimum of two tests in areas as directed by Architect.

3. Water Penetration: ASTM E1105 at a minimum uniform static-air-pressure differential of 0.67 times the static-air-pressure differential specified for laboratory testing in "Performance Requirements" Article, but not less than 6.24 lbf/sq. ft, and to not evidence water penetration.

C. Inspection Agency: Engage a qualified inspector to perform inspections.

D. Inspections:

1. Egress Door Inspections: Inspect each aluminum-framed entrance door equipped with panic hardware, located in an exit enclosure, electrically controlled, and equipped with special locking arrangements, in accordance with NFPA 101, Ch. 7 "Means of Egress," Section "Means of Egress Components," Article "Inspection of Door Openings."

E. Aluminum-framed entrance and storefront systems will be considered defective if they do not pass tests and inspections.

F. Prepare test and inspection reports.

END OF SECTION 084113

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:
   1. Hardware for hollow steel and solid core wood doors.
   2. Hardware for fire-rated doors.
   3. Hardware for aluminum storefront doors.
   4. Thresholds, weather-stripping, seals and door gaskets.

B. Related Sections include the following:
   1. Division 08, Section 081113, "Hollow Metal Doors and Frames."
   2. Division 08, Section 081416, "Flush Wood Doors."
   3. Division 08, Section 084113, "Aluminum Framed Entrances and Storefronts".

C. Products furnished, but not installed, under this Section include the following. Coordinating, purchasing, delivering, and scheduling remain requirements of this Section.

1.3 SUBMITTALS

A. Product Data: Include construction and installation details, material descriptions, dimensions of individual components and profiles, and finishes.

B. Qualification Data: For Architectural Hardware Consultant.

C. Maintenance Data: For each type of door hardware to include in maintenance manuals. Include final hardware and keying schedule.

D. Warranty: Special warranty specified in this Section.

E. Other Action Submittals:
   1. Door Hardware Sets: Prepared by or under the supervision of Architectural Hardware Consultant, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final door hardware sets with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
      a. Format: Use same scheduling sequence and format and use same door numbers as in the Contract Documents.
      b. Content: Include the following information:
         1) Identification number, location, hand, and material of each door and frame.
         2) Type, style, function, size, quantity, and finish of each door hardware item. Include description and function of each lockset and exit device.

3) Complete designations of every item required for each door or opening including name and manufacturer.
4) Fastenings and other pertinent information.
5) Location of each door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
6) Explanation of abbreviations, symbols, and codes contained in schedule.
7) Mounting locations for door hardware.
8) Door and frame sizes and materials.

c. Submittal Sequence: Submit the final door hardware sets at earliest possible date, particularly where approval of the door hardware sets must precede fabrication of other work that is critical in Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the door hardware sets.

2. Keying Schedule: Prepared by or under the supervision of Architectural Hardware Consultant, detailing Owner's final keying instructions for locks. Include schematic keying diagram and index each key set to unique door designations.

1.4 QUALITY ASSURANCE

A. Architectural Hardware Consultant Qualifications: A person who is currently certified by DHI as an Architectural Hardware Consultant and who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project.

B. Source Limitations: Obtain each type and variety of door hardware from a single manufacturer, unless otherwise indicated.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up for door hardware delivered to Project site.

B. Tag each item or package separately with identification related to the final door hardware sets, and include basic installation instructions, templates, and necessary fasteners with each item or package.

C. Deliver keys to Owner by registered mail or overnight package service.

1.6 COORDINATION

A. Templates: Distribute door hardware templates for doors, frames, and other work specified to be factory prepared for installing door hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

1.7 REGULATORY REQUIREMENTS

A. Conform to applicable code for requirements pertaining to fire-rated doors and frames.

B. All Hardware on Fire-Rated Doors: Listed and classified by UL as suitable for the purpose specified and indicated.

C. Comply with NFPA 70, NFPA 80, NFPA 101 and ANSI A117.1 requirements and guidelines as directed in the model building code including, but not limited to the following:

1. Comply with NFPA 70, "National Electrical Code", including electrical components, devices, and accessories listed and labeled as defined in Article 100 by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
2. Where indicated to comply with accessibility requirements, comply with Americans with Disabilities Act (ADA), "Accessibility Guidelines for Buildings and Facilities (ADAAG), and ANSI A117.1.
3. Comply with NFPA 101, "Life Safety Code" for doors in a means of egress.
4. Comply with NFPA 80, "Fire Doors and Windows" for fire labeled opening assemblies.

1.8 COORDINATION

A. Coordinate the work with other trades directly affected involving the manufacture or fabrication of internal reinforcement for door hardware.

B. Coordinate Owners keying requirements during the course of the work.

C. Coordinate layout and installation of scheduled electrified door hardware, and related access control equipment, with required connections to source power junction boxes, power supplies, detection and monitoring hardware and fire alarm system.

1.9 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.
1. Failures include, but are not limited to, the following:
   a. Structural failures including excessive deflection, cracking, or breakage.
   b. Faulty operation of operators and door hardware.
   c. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use.
2. Warranty Period: Three years from date of Substantial Completion, except as follows:
   a. Exit Devices: Five years from date of Substantial Completion.
   b. Manual Closers: Ten years from date of Substantial Completion.
   c. Locksets: Seven years from date of Substantial Completion.

1.10 MAINTENANCE PRODUCTS

A. Provide special wrenches and tools as applicable to each different or special hardware component.

B. Provide maintenance tools and accessories supplied by ethe hardware component manufacturer.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

A. General: Provide door hardware for each door to comply with requirements in this Section.
   1. Door Hardware Sets: Provide quantity, item, size, finish or color indicated, and named manufacturers' products complying with BHMA standard referenced.

B. Designations: Requirements for design, grade, function, finish, size, and other distinctive qualities of each type of door hardware are indicated in "Door Hardware Sets" Article. Products are identified by using door hardware designations, as follows:
   1. Named Manufacturers' Products: Manufacturer and product designation are listed for each door hardware type required for the purpose of establishing minimum requirements. Manufacturers' names are abbreviated in Part 3 "Door Hardware Sets" Article.

   2. References to BHMA Standards: Provide products complying with these standards and requirements for description, quality, and function.

2.2 HINGES

A. Quantity: Provide the following, unless otherwise indicated:
   1. Three Hinges: For doors with heights 61 to 90 inches.

B. Template Requirements: Except for hinges and pivots to be installed entirely (both leaves) into wood doors and frames, provide only template-produced units.

C. Basis of Design Manufacturer for Hinges:
   1. Interior Doors: Standard-weight hinges – Ives 5BB1 4 ½" x 4 ½" steel ball-bearing hinges.

D. Hinge Base Metal: Unless otherwise indicated, provide the following:
   1. Interior Hinges: Steel, with steel pin.
   2. Exterior Hinges: Stainless steel, with non-removable stainless steel pin.

2.3 MECHANICAL LOCKS AND LATCHES

A. Lock Functions: Function numbers and descriptions indicated in door hardware sets comply with the following:
   1. Bored Locks: BHMA A156.2.

B. Bored Locks: BHMA A156.2, Grade 1; Series 4000.

   1. Basis of Design Manufacturer for Extra Heavy Duty Cylindrical Lockset:
      a. Schlage Commercial Lock Division; an Ingersoll-Rand Company (SCH) Extra Heavy Duty Cylindrical Locks ND Series, with **Athens (ATH) lever design**, 626 satin chrome finish. Review function with owner prior to ordering.

2.4 EXIT DEVICES

A. Provide exit device series and functions as specified in the hardware sets, with the following provisions:
   1. All exit devices shall be UL listed for panic. Exit devices for labeled doors shall be UL listed as "Fire Exit Hardware."
   2. Where lever trim is specified, provide lever design to match lockset levers. Exit device lever trim shall withstand 1000-inch pounds of torque without allowing access and be free-wheeling where listed.
   3. Provide cylinders for exit devices with locking trim and cylinder dogging. Cylinders shall be manufacturer's restricted key, six pin.
   4. All exit devices shall be heavy duty push rail and cast chassis type construction. Mounting rails shall be formed from solid single piece of stainless steel, brass, or bronze not less than 0.72 inches thick. Painted or anodized aluminum shall not be considered heavy duty and are not acceptable.
   5. All exit devices shall be provided with flush end caps as designated in the hardware sets as prefix (43).
   6. Provide protective Lexan touchpad on the exit device push rail to prevent scratches and serve as a visible guide to the user.
   7. Provide cylinder dogging feature for all non-rated exit devices.
   8. Power supplies for electrified exit devices shall be furnished by the exit device manufacturer. Provide the least number of power supplies required to adequately serve doors with electrified exit devices.

2.5 LOCK CYLINDERS

A. High-Security Lock Cylinders: BHMA A156.30, Grade 1.

B. Cylinders: Schlage Everest S123 keyway, constructed from brass or bronze, stainless steel, or nickel silver, and complying with the following:
   1. Number of Pins: Six.

   2. Bored-Lock Type: Cylinders with tailpieces to suit locks.
      a. Keys and Cylinders to incorporate a patented undercut groove, allowing restriction to keys and keying

2.6 KEYING

A. Keying System: Factory registered, complying with guidelines in BHMA A156.28, Appendix A. Incorporate decisions made in keying conference, and as follows:
   1. Master Key System: Cylinders are operated by a change key and a master key.
   2. New cylinders shall be keyed into the existing master key system so that all locksets operate from same master key.

B. Keys: Nickel silver.
   1. Stamping: Permanently inscribe each key with a visual key control number and include the following notation:
      a. Notation: "DO NOT DUPLICATE."
   2. Quantity: In addition to one extra key blank for each lock, provide the following:

a. Cylinder Change Keys: Three.
b. Master Keys: Five.

2.7 CLOSERS

A. Accessibility Requirements: Where handles, pulls, latches, locks, and other operating devices are indicated to comply with accessibility requirements, comply with the Department of Justice's "2010 ADA Standards for Accessible Design (ASAD)" and ANSI A117.1.
1. Comply with the following maximum opening-force requirements:
a. Interior, Non-Fire-Rated Hinged Doors: 5 lbf applied perpendicular to door.

B. Door Closers for Means of Egress Doors: Opening force allowable by authorities having jurisdiction. The force for pushing or pulling open a door or gate other than fire doors shall be as follows:
1. Interior, hinged doors: 5 lbs. maximum.

C. Surface Closers: BHMA A156.4, Grade 1, provide arm required for closer to be located on non-public side of door, and for doors opening to the exterior of the building the closers shall be type that allows installation on the interior side of the door.
1. Basis of Design closers are as scheduled in the Hardware Schedule at the end of this section.

D. Provide closers on the following doors: As indicated in the Hardware Schedule.

2.8 PROTECTIVE TRIM UNITS

A. Size: 2 inches less than door width on push side and 8 inches high.

B. Provide kick plates on doors where scheduled in the Hardware Schedule.

C. Fasteners: Manufacturer's standard machine or self-tapping screws.

D. Metal Protective Trim Units: BHMA A156.6; beveled top and 2 sides; fabricated from the following material:
1. Material: 0.050-inch- thick stainless steel.

2. Manufacturers: Provide kick plates model number 8400 in 630 finish as manufactured by the following:
a. Ives. (IVE): Basis of Design.

2.9 STOPS AND HOLDERS

A. Stops and Bumpers: BHMA A156.16.

B. Provide the door stops at interior doors where indicated in the Hardware Schedule.
1. Provide wall stops for doors unless other type stops are scheduled or indicated.

C. Silencers for Metal Door Frames: BHMA A156.16, Grade 1; neoprene or rubber, minimum diameter 3/8 inch; fabricated for drilled-in application to frame.

D. Manufacturers:
   1. Ives (IVE) FS444- Basis of Design.

2.10 THRESHOLDS

A. Standard: BHMA A156.21.

B. Accessibility Requirements: Where thresholds are indicated to comply with accessibility requirements, comply with the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG)." And ANSI A117.1.
   1. Bevel raised thresholds with a slope of not more than 1:2. Provide thresholds not more than 1/2 inch high.

C. Thresholds for Means of Egress Doors: Comply with NFPA 101 and with the ADA. Maximum 1/2 inch high.

D. Provide products by one of the following:
   1. Pemko – 171A.
   2. Reese Enterprises (RE) – S205A.
   3. Zero International (ZRO) – 544A.

2.11 PERIMETER GASKETING AND WEATHER STRIPPING

A. Door Gasketing: BHMA A156.22; air leakage not to exceed 0.50 cfm per foot of crack length for gasketing other than for smoke control, as tested according to ASTM E 283; with flexible seal strips that are easily replaceable and readily available from stocks maintained by manuf.
   1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
      a. Hager Companies.
      b. National Guard Products.
      c. Pemko Manufacturing Co.; an ASSA ABLOY Group company.
      d. Zero International.

B. Door Sweeps: Neoprene or Silicone gasket material held in place by flat aluminum housing or flange; surface mounted to face of door with screws.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Installation: Note that the labor for the installation of door hardware is to be carried out within the scope of Section "Finish Carpentry".

B. Mounting Heights: Mount door hardware units at heights indicated on Drawings and as follows unless otherwise required to comply with governing regulations.
   1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."

C. Key Control System: Tag keys and place them on markers and hooks in key control system cabinet, as determined by final keying schedule.

3.3 CLEANING AND PROTECTION.

A. Clean adjacent surfaces soiled by door hardware installation.

B. Clean operating items as necessary to restore proper function and finish.

C. Provide final protection and maintain conditions that ensure that door hardware is without damage or deterioration at time of Substantial Completion.

D. Provide manufacturers' catalog cut sheets and maintenance manual sheets of all hardware items that have moving or operating parts to the Owner for his maintenance manuals.

PART 4 – DOOR HARDWARE SCHEDULE

HW-1

Door #1	Vestibule #100 to Exterior 2/3'-0" x 7'-0" Aluminum Storefront Doors
Door #13	Dayroom / Training #101 to Exterior 2/3'-0" x 7'-0" Aluminum Storefront Doors
Door #16	Dayroom / Training #101 to Vestibule #100 2/3'-0" x 7'-0" Aluminum Storefront Doors

Each Door to Have:

1	Lock Cylinder	(Doors #1 and #13) Rim or mortise as required	US26D
1	Floor Stop	Rockwood 465	US26D
1	EPT Transfer at Active Leaf (Doors # 1 and 13)		
1	ELR Kit to be furnished on Active Leaf (Doors # 1 and 13)		
1	Power Supply as recommended by ELR manufacturer (Doors # 1 and 13)		
1	Card Reader	(Doors #1 and #13 – provided and installed by Owner)	

Remainder of Door Hardware provided by Aluminum Storefront supplier under Section 084113, "Aluminum-Framed Entrances and Storefronts."

HW-2 Door #2 Apparatus Room #109 to Exterior
3'-0" x 7'-0" Galv. and Insulated Hollow Metal Door and Frame
Door #5 Apparatus Room #109 to Exterior
3'-0" x 7'-0" Galv. and Insulated Hollow Metal Door and Frame
Door #9 Apparatus Room #109 to Exterior
3'-0" x 7'-0" Galv. and Insulated Hollow Metal Door and Frame
Door # 12 Apparatus Room #109 to Exterior
3'-0" x 7'-0" Galv. and Insulated Hollow Metal Door and Frame

Each Door to Have:

1 ½ Pair Butts	Ives 5-BB-4 ½" x 4 ½" NRP	US32D
1 Lockset	ND50PD (Entrance / Office) ANSI F82	US26D
1 Closer	LCN 1461	Alum.
1 Kickplate	Ives 8" high x 34" wide	US32D
1 Threshold	Pemko 171A	Alum.
1 Door Sweep	National Guard 101V	Alum.
1 Floor Stop	Rockwood 465	US26D
1 Set Weatherstripping	National Guard 160V	Alum.
1 Electric Strike	5200C x 24VDC	630
1 Card Reader	Provided by and installed Owner.	

HW-3 Door #6 Storage Room #118 to Exterior
2/3'-0" x 7'-0" Galv. and Insulated Hollow Metal Door and Frame

Door to Have:

3 Pair Butts	Ives 5-BB-4 ½" x 4 ½" NRP	US32D
1 Lockset	ND80PD (Storeroom) ANSI F86	US26D
1 Set Manual Flush Bolts	Ives FB458 (Inactive Leaf)	US2C
2 Closers	LCN 1461	US26D
2 Kickplates	Ives 8" high x 34" wide	US32D
1 Threshold	Pemko 171A	Alum.
2 Door Sweeps	National Guard 101V	Alum.
2 Floor Stops	Rockwood 460	US26D
2 Floor Stops (Kick-down)	Rockwood 465	US26D
1 Sets Weatherstripping	National Guard 160V	Alum.

HW-4 Door #7 Corridor #112 to Exterior
3'-0" x 7'-0" Galv. and Insulated Hollow Metal Door and Frame
Door #8 Decontamination Room #115 to Exterior
3'-0" x 7'-0" Galv. and Insulated Hollow Metal Door and Frame
Door #14 Women's Bunkroom #104 to Exterior
3'-0" x 7'-0" Galv. and Insulated Hollow Metal Door and Frame
Door #15 Men's Bunkroom #103 to Exterior
3'-0" x 7'-0" Galv. and Insulated Hollow Metal Door and Frame

Each Door to Have:

1 ½ Pair Butts	Ives 5-BB-4 ½" x 4 ½" NRP	US32D
1 Lockset	ND50PD (Entrance / Office) ANSI F82	US26D
1 Closer	LCN 1461	Alum.
1 Kickplate	Ives 8" high x 34" wide	US32D
1 Threshold	Pemko 171A	Alum.
1 Door Sweep	National Guard 101V	Alum.
1 Floor Stop	Rockwood 465	US26D
1 Set Weatherstripping	National Guard 160V	Alum.
1 Electric Strike	5200C x 24VDC	630
1 Card Reader	Provided by and installed Owner.	

HW-5 Door # 17 Corridor #101A to Office #108
3'-0" x 7'-0" Prefinished Solid Core Wood Door in Hollow Metal Frame

Door to Have:

1 ½ Pair Butts	Ives 5-BB-4 ½" x 4 ½"	US26D
1 Lockset	ND50PD (Entrance / Office) ANSI F82	US26D
1 Closer	LCN 1461	Alum.
1 Wall Stop	Ives WS406CCV	US26D
1 Kickplate	Ives 8" high x 34" wide	US32D
3 Silencers	Ives SR 64	Rubber

HW-6 Door #18 Apparatus Room #109 to Corridor #101A
3'-0" x 7'-0" Hollow Metal Door and Frame (45-min. rated).
Door #31 Apparatus Room #109 to Corridor #112
3'-6" x 7'-0" Hollow Metal Door and Frame (45-min. rated).

Each Door to Have:

1 ½ Pair Butts	Ives 5-BB-4 ½" x 4 ½"		US26D
1 Lockset	ND50PD (Entrance / Office) ANSI F82		US26D
1 Closer	LCN 1461		Alum.
1 Kickplate	Ives 8" high x 34" wide		US32D
1 Wall Stop	Ives WS406CCV	(Door #31)	US26D

HW-6, continued

1 Floor Stop	Ives FS 444	(Door #18)	US26D
1 Set Smoke Gasketing	Pemko S88		Rubber

HW-7 Door #19 Corridor #101A to Toilet #107
3'-0" x 7'-0" Prefinished Solid Core Wood Door in Hollow Metal Frame

Door #20 Corridor #101A to Toilet #106
3'-0" x 7'-0" Prefinished Solid Core Wood Door in Hollow Metal Frame

Door #24 Men's Bunkroom #103 to Men's Bathroom #103A
3'-0" x 7'-0" Prefinished Solid Core Wood Door in Hollow Metal Frame

Door #27 Women's Bunkroom #104 to Women's Bathroom #104
3'-0" x 7'-0" Prefinished Solid Core Wood Door in Hollow Metal Frame

Door #33 Corridor #112 to Toilet #114
3'-0" x 7'-0" Hollow Metal Door and Frame

Door #34 Toilet #114 to Decontamination Room #115
3'-0" x 7'-0" Hollow Metal Door and Frame

Each Door to Have:

1 ½ Pair Butts	Ives 5-BB-4 ½" x 4 ½"	US26D
1 Privacy Set	ND40S IS-LOC x OS-OCC	US26D
1 Closer	LCN 1461	Alum.
1 Wall Stop	Ives WS406CCV	US26D
1 Kickplate	Ives 8" high x 34" wide	US32D
1 Coat Hook	Bobrick B76727	US32D
3 Silencers	Ives SR 64	Rubber

HW-8 Door #21 Storage Room #105 to Dayroom / Training #101
2/3'-0" x 7'-0" Prefinished Solid Core Wood Door in Hollow Metal Frame

Door to Have:

3 Pair Butts	Ives 5-BB-4 ½" x 4 ½"	US26D
1 Lockset	ND80PD (Storeroom) ANSI F86	US26D
1 Set Manual Flush Bolts	Ives FB458 (Inactive Leaf)	US26D
2 Kickplates	Ives 8" high x 34" wide	US32D
2 Overhead Stops	Glynn-Johnson 90H Series	US26D
2 Silencers	Ives SR 64	Rubber

HW-9 Door #22 Dayroom / Training #101 to Vestibule #102
3'-0" x 7'-0" Prefinished Solid Core Wood Door in Hollow Metal Frame

Door to Have:

1 ½ Pair Butts	Ives 5-BB-4 ½" x 4 ½"	US26D
1 Passage Set	ND10S (Passage) ANSI F75	US26D
1 Closer	LCN 1461	Alum.

HW-9, continued

1 Floor Stop	Ives FS 444	US26D
1 Kickplate	Ives 8" high x 34" wide	US32D
3 Silencers	Ives SR 64	Rubber

HW-10 Door #23 Vestibule #102 to Men's Bunkroom #103
3'-0" x 7'-0" Prefinished Solid Core Wood Door in Hollow Metal Frame (20-min. rated).

Door #26 Vestibule #102 to Women's Bunkroom #104
3'-0" x 7'-0" Prefinished Solid Core Wood Door in Hollow Metal Frame (20-min. rated).

Each Door to Have:

1 ½ Pair Butts	Ives 5-BB- 4 ½" x 4 ½"	US26D
1 Privacy Set	ND40S (Privacy) ANSI F76	US26D
1 Closer	LCN 1461	Alum.
1 Wall Stop	Ives WS406CCV	US26D
1 Kickplate	Ives 8" high x 34" wide	US32D
3 Silencers	Ives SR 64	Rubber

HW-11 Door #29 Apparatus Room #109 to Electrical Room #110
3'-0" x 7'-0" Hollow Metal Door and Frame (45-min. rated).

Door #36 Corridor #112 to Storage #116
3'-0" x 7'-0" Hollow Metal Door and Frame

Door #37 Sprinkler Room #119 to Storage #118
3'-0" x 7'-0" Hollow Metal Door and Frame

Door #38 Corridor #112 to Storage #118
3'-0" x 7'-0" Hollow Metal Door and Frame

Door #39 Corridor #112 to Oxygen Tank Storage Room #117
3'-0" x 7'-0" Hollow Metal Door and Frame (1-hour rated).

Each Door to Have:

1 ½ Pair Butts	Ives 5-BB-4 ½" x 4 ½" NRP	US26D
1 Lockset	ND80PD (Storeroom) ANSI F86	US26D
1 Closer	LCN 1461	Alum.
1 Floor Stop	Ives FS 444	US26D
1 Kickplate	Ives 8" high x 34" wide	US32D
3 Silencers	Ives SR 64 (Doors 36, 37, and 38)	Rubber
1 Set Smoke Gasketing	Pemko S88 (Doors 29 and 39).	Rubber

HW-12 Door #30 Apparatus Room #109 to Laundry #111
3'-6" x 7'-0" Hollow Metal Door and Frame (45-min. rated).
Door #35 Corridor #112 to Decontamination Room #115
3'-6" x 7'-0" Hollow Metal Door and Frame

Each Door to Have:

1 ½ Pair Butts	Ives 5-BB- 4 ½" x 4 ½"	US26D
1 Lockset	ND80PD (Storeroom) ANSI F86	US26D
1 Closer	LCN 1461	Alum.
1 Wall Stop	Ives WS406CCV (Door #35)	US26D
1 Floor Stop	Ives FS 444 (Door #30)	US26D
1 Kickplate	Ives 8" high x 40" wide	US32D
3 Silencers	Ives SR 64	Rubber

HW-13 Door #32 Corridor #112 to Medical Supply #113
3'-0" x 7'-0" Hollow Metal Door and Frame

Door to Have:

1 ½ Pair Butts	Ives 5-BB-4 ½" x 4 ½"	US26D
1 Lockset	ND80PD (Storeroom) ANSI F86	US26D
1 Closer	LCN 1261	Alum.
1 Wall Stop	Ives WS406CCV	US26D
1 Kickplate	Ives 8" high x 34" wide	US32D
3 Silencers	Ives SR 64	Rubber
1 Electric Strike	5200C x 24VDC	630
1 Fingerprint Scanner	Provided by and installed by Owner.	

HW-14 Door #25 Closet #103B to Men's Bunkroom #103
3'-0" x 7'-0" Prefinished Solid Core Wood Door in Hollow Metal Frame
Door #28 Closet #104B to Women's Bunkroom #104
3'-0" x 7'-0" Prefinished Solid Core Wood Door in Hollow Metal Frame

Each Door to Have:

1 1/2 Pair Butts	Ives 5-BB-4 ½" x 4 ½"	US26D
1 Lockset	ND80PD (Storeroom) ANSI F86	US26D
1 Kickplates	Ives 8" high x 34" wide	US32D
1 Overhead Stop	Glynn-Johnson 90H Series	US26D
1 Silencers	Ives SR 64	Rubber

END OF SECTION 087000

SECTION 102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Public-use washroom accessories.
2. Public-use shower room accessories.
3. Under lavatory guards.
4. Custodial accessories.

1.2 ACTION SUBMITTALS

A. Product data.

B. Samples: For each exposed product and for each finish specified, full size.

1. Approved full-size Samples will be returned and may be used in the Work.

1.3 INFORMATIONAL SUBMITTALS

A. Sample warranties.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance data.

1.5 WARRANTY

A. Manufacturer's Special Warranty for Mirrors: Manufacturer agrees to repair or replace mirrors that fail in materials or workmanship within specified warranty period.

1. Warranty Period: Five (5) years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Structural Performance: Design accessories and fasteners to comply with the following requirements:

1. Grab Bars: Installed units are able to resist 250 lbf concentrated load applied in any direction and at any point.
2. Shower Seats: Installed units are able to resist 250 lbf concentrated load applied in any direction and at any point.

2.2 PUBLIC-USE WASHROOM ACCESSORIES

A. Toilet Tissue Dispenser, (TA-3):
   1. Surface mounted jumbo toilet paper dispenser.
   2. Acceptable Basis of Design products include, but are not limited to:
      a. ASI 0042, stainless steel with satin finish.
      b. Bobrick B-2890, stainless steel with satin finish.

B. Automatic Paper Towel (Roll) Dispenser, (TA-1):
   1. Automatic motion-sensing mechanism with user-adjustable delay and paper towel length; battery powered.
   2. Acceptable Basis of Design product:
      a. Georgia-Pacific (GP Pro) "enMotion" Impulse 10" automated touchless paper towel dispenser, white color, model # 59407A.
   3. Mounting: Surface mounted.
   4. Material and Finish: Plastic, white color.

C. Soap Dispenser (TA-2):
   1. Description: Designed for automatic operation and dispensing soap in liquid form.
   2. Acceptable Basis of Design product:
      a. Georgia Pacific (GP Pro) "enMotion" Gen 2 automatic soap dispenser, wall-mounted, white color, model # 52058.
   3. Mounting: Vertically oriented, surface mounted.
   4. Refill Indicator: Window type.
   5. Material and Finish: Plastic, white color.

D. Grab Bar (TA-5, TA-6, TA-7, and TA-8):
   1. Mounting: Flanges with concealed fasteners.
   2. Material: Stainless steel, 0.05 inch thick.
      a. Finish: Smooth, ASTM A480/A480M No. 4 finish (satin).
   3. Outside Diameter: 1-1/4 inches.
   4. Configuration and Length: As indicated on Drawing A604.

E. Mirror Unit (TA-4):
   1. Frame: Stainless steel angle, 0.05 inch thick.
      a. Corners: Welded.
   2. Size: 24-inches wide x 36-inches high.
   3. Hangers: Manufacturer's standard rigid, tamper and theft resistant.
   4. Acceptable Basis of Design products include, but are not limited to:
      a. ASI 0600-2436.
      b. Bobrick B-290 2436.

F. Robe Hook (TA-12):
   1. Description: Double-prong unit.
   2. Mounting: Concealed.

3. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin).
4. Acceptable Basis of Design products include, but are not limited to:
   a. ASI 7345-S.
   b. Bobrick B-76727.

2.3 PUBLIC-USE SHOWER ROOM ACCESSORIES

A. Shower Curtain Rod (TA-10):
1. Description: 1-inch outside diameter, straight rod.
2. Configuration: As indicated on Drawings.
3. Mounting Flanges: Concealed.
4. Rod Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish.

B. Shower Curtain and Hooks (TA-10):
1. Size: Minimum 70 inches wide by 72 inches high.
2. Material: Vinyl, 0.2 mm thick, opaque, matte.
3. Color: White.
4. Grommets: Corrosion resistant at minimum 6 inches o.c. through top hem.
5. Shower Curtain Hooks: Chrome-plated or stainless steel, spring wire curtain hooks with snap fasteners, sized to accommodate specified curtain rod. Provide one hook per curtain grommet.

C. Folding Shower Seat (TA-9):
1. Configuration: Rectangular seat.
2. Seat: Stainless steel, phenolic or polymeric composite of slat-type or one-piece construction in color as selected by Architect.
3. Mounting Mechanism: Stainless steel, ASTM A480/A480M No. 4 finish (satin).
4. Acceptable Basis of Design products include, but are not limited to:
   a. ASI 8203-28.
   b. Bobrick B-5193.

2.4 UNDERLAVATORY GUARDS

A. Under-lavatory Guard (TA-11):
1. Description: Insulating pipe covering for supply and drain piping assemblies that prevents direct contact with and burns from piping; allow service access without removing coverings.
2. Material and Finish: Antimicrobial, molded plastic, white.

2.5 CUSTODIAL ACCESSORIES

A. Custodial Mop and Broom Holder (TA-13):
1. Description: Unit with shelf, hooks, and mop holders.
2. Length: 34 inches.
3. Hooks: Four.
4. Mop/Broom Holders: Three., spring-loaded, rubber hat, cam type.
5. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin).

a. Shelf: Not less than nominal 0.05-inch-thick stainless steel.

6. Acceptable Basis of Design products include, but are not limited to:
   a. ASI 10-1308-3.
   b. Bobrick B-239 x 34.

2.6 FABRICATION

A. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of six keys to Owner's representative.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install accessories in accordance with manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.

1. Remove temporary labels and protective coatings.

B. Grab Bars: Install to comply with specified structural-performance requirements.

C. Shower Seats: Install to comply with specified structural-performance requirements. Confirm that folding the shower seat, when centered in the shower, will not interfere with adjacent grab bars.

END OF SECTION 102800

COUNTY OF WASHINGTON, VIRGINIA

C. WAYNE STEVENS, JR. PUBLIC SAFETY FACILITY

HIGHLANDS BUSINESS PARK - OWENS DRIVE
GLADE SPRING, VIRGINIA 24340

COMMONWEALTH OF VIRGINIA — MATTHEW R. LANE — Lic. No. 34173 — 1/30/26 — PROFESSIONAL ENGINEER — CIVIL

COMMONWEALTH OF VIRGINIA — JOHN L. JACOBS — Lic. No. 16810 — 01/30/2026 — PROFESSIONAL ENGINEER — STRUCTURAL

COMMONWEALTH OF VIRGINIA — D. MICHAEL WEAVER — LIC. NO. 9031 — 01-30-2026 — ARCHITECT — ARCHITECTURE

COMMONWEALTH OF VIRGINIA — DERWIN EUGENE CARTMEL — Lic. No. 31491 — 1/30/26 — PROFESSIONAL ENGINEER — MECHANICAL

COMMONWEALTH OF VIRGINIA — JOE W. RIGGS — Lic. No. 022741 — 1-30-26 — PROFESSIONAL ENGINEER

COMMONWEALTH OF VIRGINIA — Lic. No. 68421 — 01-30-2026 — PROFESSIONAL ENGINEER — FIRE PROTECTION

GENERAL PROJECT INFORMATION

PROJECT DATA

PROJECT
C. WAYNE STEVENS, JR. PUBLIC SAFETY FACILITY
HIGHLANDS BUSINESS PARK
OWENS DRIVE
GLADE SPRING, VIRGINIA 24340

OWNER / DEVELOPER
COUNTY OF WASHINGTON, VIRGINIA
DEPARTMENT OF EMERGENCY MANAGEMENT
1 GOVERNMENT CENTER PLACE, SUITE A
ABINGDON, VIRGINIA 24210

OWNER CONTACT PERSON
KEVIN HILL, GENERAL SERVICES DIRECTOR

TELEPHONE NO.: 276-525-1355
EMAIL: khill@washcova.com

DESIGNERS OF RECORD

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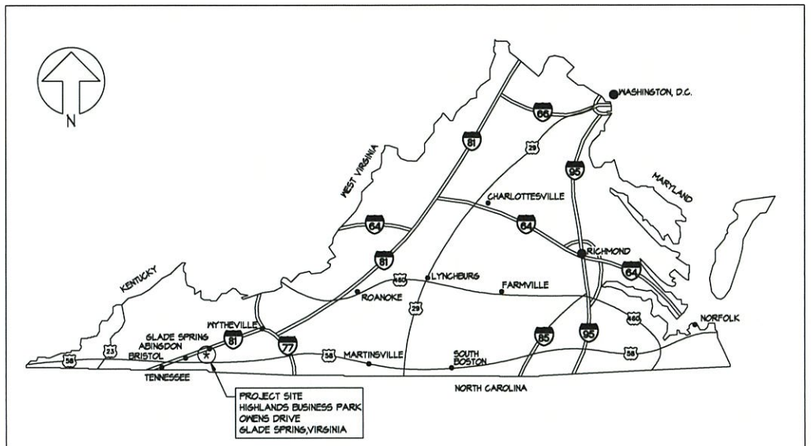
HVAC	DERWIN E. CARTMEL, P.E.	VA. 031491	423-926-5491
SPRINKLER	DERWIN E. CARTMEL, P.E.	VA 031491	423-926-5491
ELECTRICAL	JOE W. RIGGS, P.E.	VA 022741	423-926-5491
FIRE ALARM	JOE W. RIGGS, P.E.	VA 022741	423-926-5491

DRAWING INDEX

DRAWING INDEX



STATE MAP

PROJECT
COUNTY OF WASHINGTON, VIRGINIA
C. WAYNE STEVENS, JR PUBLIC SAFETY FACILITY
HIGHLANDS BUSINESS PARK
OWENS DRIVE
GLADE SPRING, VA 24340

TLG PROJECT NO. 2515

TITLE SHEET
DRAWING INDEX
LOCATION INFORMATION

T-100

Date 01-30-2026

the LANE GROUP
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USDA Rural Development
U.S. DEPARTMENT OF AGRICULTURE

WASHINGTON COUNTY — VIRGINIA

FINISH SCHEDULE

ROOM NO.	ROOM DESCRIPTION	FLOOR		BASE TRIM		WALL		CEILING		CEILING HEIGHT	FINISH SCHEDULE REMARKS
		MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH		
100	VESTIBULE	POLISHED CONCRETE	CONCRETE SEALER	ALUM. STOREFRONT	KYNAR	ALUM. & GLASS	KYNAR FINISHED ALUMINUM & GLASS	2' X 2' SUSPENDED ACOUSTICAL PANELS, TYPE 1.	--	9'-8"	-
101	DAYROOM / TRAINING	POLISHED CONCRETE	CONCRETE SEALER	4" RUBBER	--	CMU	CMU SEALER & LATEX ACRYLIC PAINT	2' X 2' SUSPENDED ACOUSTICAL PANELS, TYPE 1.	--	9'-8"	1
101A	CORRIDOR	POLISHED CONCRETE	CONCRETE SEALER	4" RUBBER	--	CMU	CMU SEALER & LATEX ACRYLIC PAINT	2' X 2' SUSPENDED ACOUSTICAL PANELS, TYPE 1.	--	9'-8"	-
102	VESTIBULE	POLISHED CONCRETE	CONCRETE SEALER	4" RUBBER	--	GWB	PVA PRIMER & LATEX ACRYLIC PAINT	5/8" GYSPUM WALLBOARD.	LEVEL 4 / PAINTED	9'-0"	-
103	MEN'S BUNKROOM	POLISHED CONCRETE	CONCRETE SEALER	4" RUBBER	--	CMU	CMU SEALER & LATEX ACRYLIC PAINT	2' X 2' SUSPENDED ACOUSTICAL PANELS, TYPE 2.	--	9'-8"	-
103A	MEN'S BUNKROOM BATH	PORCELAIN TILE	--	3" PORCELAIN	--	CMU	CMU SEALER & LATEX ACRYLIC PAINT	5/8" GYSPUM WALLBOARD.	LEVEL 4 / PAINTED	9'-0"	2, 3, 6 ⚠1
103B	CLOSET	POLISHED CONCRETE ⚠1	CONCRETE SEALER	4" RUBBER	--	CMU	CMU SEALER & LATEX ACRYLIC PAINT	5/8" GYSPUM WALLBOARD.	LEVEL 4 / PAINTED	9'-0"	-
103C	CLOSET	POLISHED CONCRETE	CONCRETE SEALER	4" RUBBER	--	CMU	CMU SEALER & LATEX ACRYLIC PAINT	5/8" GYSPUM WALLBOARD.	LEVEL 4 / PAINTED	9'-0"	-
104	WOMEN'S BUNKROOM	POLISHED CONCRETE	CONCRETE SEALER	4" RUBBER	--	CMU	CMU SEALER & LATEX ACRYLIC PAINT	2' X 2' SUSPENDED ACOUSTICAL PANELS, TYPE 2.	--	9'-8"	-
104A	WOMEN'S BUNKROOM BATH	PORCELAIN TILE	--	3" PORCELAIN	--	CMU	CMU SEALER & LATEX ACRYLIC PAINT	5/8" GYSPUM WALLBOARD.	LEVEL 4 / PAINTED	9'-0"	2, 3, 6 ⚠1
104B	CLOSET	POLISHED CONCRETE ⚠1	CONCRETE SEALER	4" RUBBER	--	CMU	CMU SEALER & LATEX ACRYLIC PAINT	5/8" GYSPUM WALLBOARD.	LEVEL 4 / PAINTED	9'-0"	-
104C	CLOSET	POLISHED CONCRETE	CONCRETE SEALER	4" RUBBER	--	CMU	CMU SEALER & LATEX ACRYLIC PAINT	5/8" GYSPUM WALLBOARD.	LEVEL 4 / PAINTED	9'-0"	-
105	STORAGE	POLISHED CONCRETE	CONCRETE SEALER	4" RUBBER	--	CMU	CMU SEALER & LATEX ACRYLIC PAINT	5/8" GYSPUM WALLBOARD.	LEVEL 4 / PAINTED	9'-0"	-
106	WOMEN'S TOILET	POLISHED CONCRETE	CONCRETE SEALER	3" PORCELAIN	--	CMU	CMU SEALER & LATEX ACRYLIC PAINT	5/8" GYSPUM WALLBOARD.	LEVEL 4 / PAINTED	9'-0"	2
107	MEN'S TOILET	POLISHED CONCRETE	CONCRETE SEALER	3" PORCELAIN	--	CMU	CMU SEALER & LATEX ACRYLIC PAINT	5/8" GYSPUM WALLBOARD.	LEVEL 4 / PAINTED	9'-0"	2
108	OFFICE	POLISHED CONCRETE	CONCRETE SEALER	4" RUBBER	--	CMU	CMU SEALER & LATEX ACRYLIC PAINT	5/8" GYSPUM WALLBOARD.	LEVEL 4 / PAINTED	9'-0"	-
109	APPARATUS ROOM	POLISHED CONCRETE	CONCRETE SEALER	4" RUBBER	--	CMU / PEMB	CMU SEALER & LATEX ACRYLIC PAINT	PEMB EXPOSED STRUCTURE.	PAINTED	VARIES	-
109A	WET AREA	POLISHED CONCRETE	CONCRETE SEALER	4" RUBBER	--	CMU	CMU SEALER & LATEX ACRYLIC PAINT	5/8" GYSPUM WALLBOARD.	LEVEL 4 / PAINTED	9'-0"	-
109B	TURNOUT GEAR	POLISHED CONCRETE	CONCRETE SEALER	4" RUBBER	--	CMU	CMU SEALER & LATEX ACRYLIC PAINT	5/8" GYSPUM WALLBOARD.	LEVEL 4 / PAINTED	9'-0"	-
110	ELECTRICAL / I.T. ROOM	POLISHED CONCRETE	CONCRETE SEALER	4" RUBBER	--	CMU	CMU SEALER & LATEX ACRYLIC PAINT	5/8" GYSPUM WALLBOARD.	LEVEL 4 / PAINTED	9'-0"	-
111	LAUNDRY	POLISHED CONCRETE	CONCRETE SEALER	4" RUBBER	--	CMU	CMU SEALER & LATEX ACRYLIC PAINT	5/8" GYSPUM WALLBOARD.	LEVEL 4 / PAINTED	9'-0"	-
112	CORRIDOR	POLISHED CONCRETE	CONCRETE SEALER	4" RUBBER	--	CMU	CMU SEALER & LATEX ACRYLIC PAINT	2' X 2' SUSPENDED ACOUSTICAL PANELS, TYPE 1	--	9'-0"	-
113	MEDICAL SUPPLY	POLISHED CONCRETE	CONCRETE SEALER	4" RUBBER	--	CMU	CMU SEALER & LATEX ACRYLIC PAINT	5/8" GYSPUM WALLBOARD.	LEVEL 4 / PAINTED	9'-0"	-
114	TOILET	POLISHED CONCRETE	CONCRETE SEALER	3" PORCELAIN	--	CMU	CMU SEALER & LATEX ACRYLIC PAINT	5/8" GYSPUM WALLBOARD.	LEVEL 4 / PAINTED	9'-0"	2
115	DECONTAMINATION ROOM	POLISHED CONCRETE / CERAMIC MOSIAC	CONCRETE SEALER	3" PORCELAIN ⚠1	--	CMU	CMU SEALER & LATEX ACRYLIC PAINT	5/8" GYSPUM WALLBOARD.	LEVEL 4 / PAINTED	9'-0"	7 ⚠1
116	STORAGE	POLISHED CONCRETE ⚠1	CONCRETE SEALER	4" RUBBER	--	CMU	CMU SEALER & LATEX ACRYLIC PAINT	5/8" GYSPUM WALLBOARD.	LEVEL 4 / PAINTED	9'-0"	-
117	OXYGEN TANK ROOM	POLISHED CONCRETE	CONCRETE SEALER	4" RUBBER	--	CMU	CMU SEALER & LATEX ACRYLIC PAINT	5/8" GYSPUM WALLBOARD.	LEVEL 4 / PAINTED	9'-0"	-
118	STORAGE	POLISHED CONCRETE	CONCRETE SEALER	4" RUBBER	--	CMU	CMU SEALER & LATEX ACRYLIC PAINT	5/8" GYSPUM WALLBOARD.	LEVEL 4 / PAINTED	9'-0"	-
119	SPRINKLER RISER ROOM	POLISHED CONCRETE	CONCRETE SEALER	4" RUBBER	--	CMU	CMU SEALER & LATEX ACRYLIC PAINT	5/8" GYSPUM WALLBOARD.	LEVEL 4 / PAINTED	9'-0"	-

FINISH SCHEDULE REMARKS:

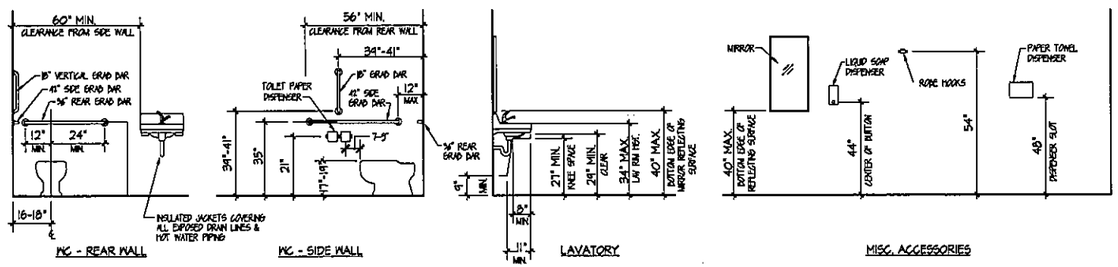
1. PROVIDE 3" X 12" THINSET PORCELAIN SUBWAY TILES AS A BACKSPLASH ABOVE COUNTERTOPS. SET TILES HORIZONTALLY IN A RUNNING BOND PATTERN. COLOR OF TILE AND GROUT SELECTED BY THE ARCHITECT. SEE INTERIOR ELEVATION 2/A302.
2. PROVIDE 3" X 12" THINSET PORCELAIN SUBWAY TILE FLOOR TO CEILING ON WETWALL AND IN THE SHOWER. SET TILES HORIZONTALLY IN A RUNNING BOND PATTERN. COLOR OF TILE AND GROUT SELECTED BY THE ARCHITECT.
3. IN BUNKROOM TOILETS 103A AND 104A, PROVIDE SUBWAY TILE ON EACH SIDE AND ON THE EXPOSED END OF THE 12" WIDE PARTITION THAT SEPARATES THE SHOWER FROM THE TOILET AREA.
4. PORCELAIN SUBWAY TILE BASE, IN ROOMS INDICATED, SHALL BE 3" X 12" WITH A BULLNOSE TOP WHERE IT IS A WALL BASE ONLY AT THE ROOM PERIMETER. BOTTOM OF TILE SHALL BE STRAIGHT (NOT COVED).
5. 4" RUBBER BASE, WHERE INDICATED, SHALL BE COVED TYPE.

⚠1
6. IN BUNKROOM TOILETS 103A AND 104A, PROVIDE 2" X 2" CERAMIC MOSAIC TILE IN THE SHOWER AND 12" X 24" PORCELAIN TILE ON THE BATHROOM FLOOR. SEE DRAWING A102 FOR LAYOUT.
7. IN DECONTAMINATION ROOM 115, PROVIDE 2" X 2" CERAMIC MOSAIC TILE IN THE SHOWER AND IN THE DRAYING AREA. SEE DRAWING A102 FOR LAYOUT.

TOILET ACCESSORY SCHEDULE

MARK	ITEM	MOUNTING LOCATION
TA-1	PAPER TOWEL DISPENSER	48" AFF TO DISPENSER SLOT
TA-2	LIQUID SOAP DISPENSER	44" AFF TO DISPENSER OPERATOR
TA-3	TOILET TISSUE DISPENSER	20" TO 28" TO CENTERLINE OF ROLL.
TA-4	24"x36" SURFACE MOUNTED MIRROR	40" AFF TO BOTTOM OF REFLECTING SURFACE
TA-5	42" HORIZONTAL GRAB BAR	35" AFF TO CENTERLINE OF BAR
TA-6	36" HORIZONTAL GRAB BAR	35" AFF TO CENTERLINE OF BAR
TA-7	24" HORIZONTAL GRAB BAR	35" AFF TO CENTERLINE OF BAR
TA-8	18" VERTICAL GRAB BAR	40" AFF TO BOTTOM OF BAR
TA-9	SHOWER SEAT	17" TO 19" FROM FLOOR TO TOP OF SEAT
TA-10	CURTAIN ROD WITH CURTAIN & HOOKS	75" AFF TO CENTERLINE OF BAR
TA-11	INSULATED PIPE WRAP	LAVATORY P-TRAP
TA-12	ROBE HOOK	56" AFF TO CENTERLINE OF HOOK
TA-13	MOP RACK	MOUNT AT HEIGHT FIELD DIRECTED.
TA-14	VINYL COATED WIRE SHELF	5'-0" (+/-) TO TOP OF SHELF.

PROVIDE SOLID WOOD BLOCKING IN METAL STUD FRAMED PARTITIONS TO SUPPORT WALL-MOUNTED ACCESSORIES. ⚠1



TYPICAL ACCESSIBLE MOUNTING HEIGHTS

SCALE: 3/8" = 1'-0"

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NEW EMS FACILITY FOR
WASHINGTON COUNTY, VIRGINIA

HIGHLANDS BUSINESS PARK
OWENS DRIVE - GLADE SPRING, VA 24340

FINISH SCHEDULE
TOILET ACCESSORY SCHEDULE

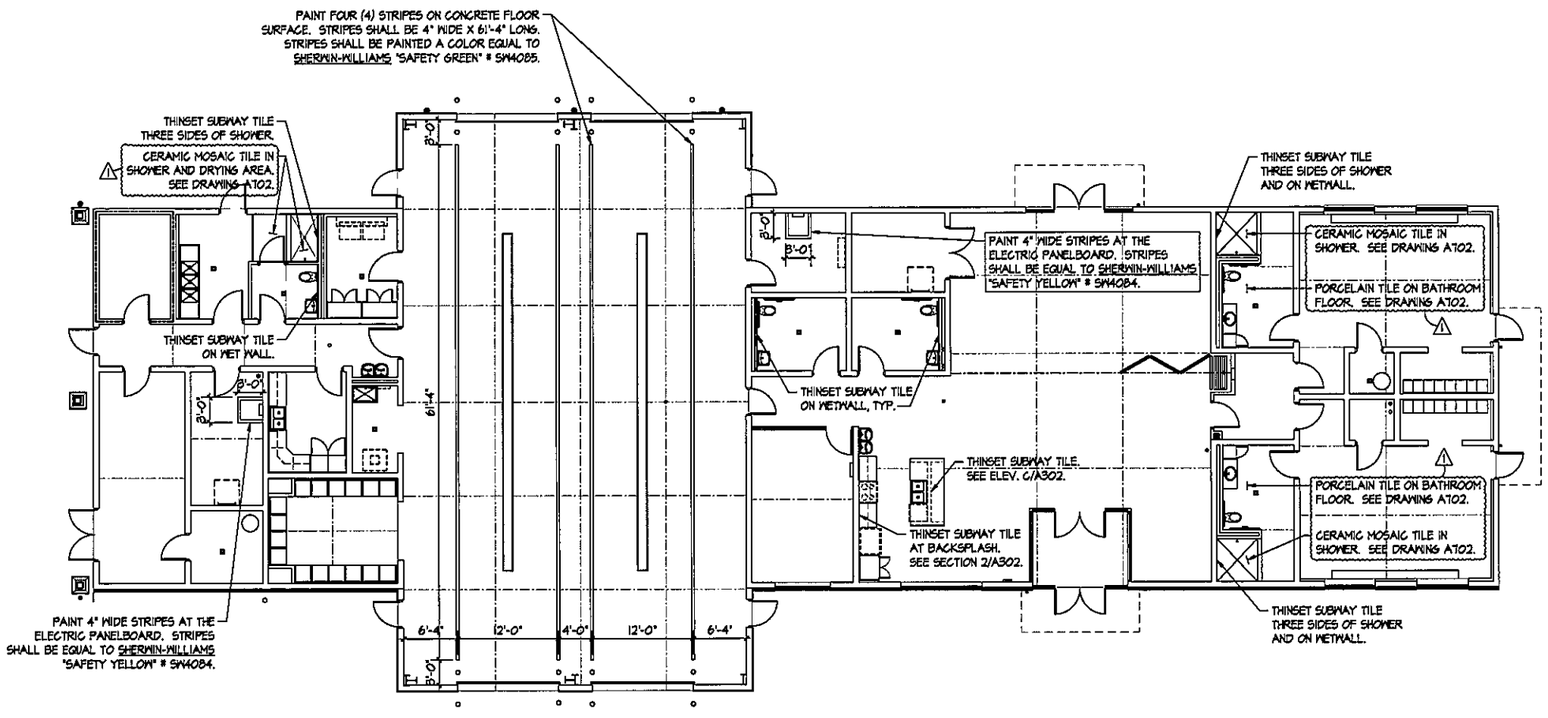
COMMONWEALTH OF VIRGINIA
D. MICHAEL WEAVER
LIC. NO. 9031
01-30-2026
ARCHITECT

DATE:	01-30-2026
NO.	REVISION DATE
1	06-12-2026
2	
3	

SHEET: A604

DRAWN BY: DMW | CHECKED BY: MRL

PROJECT NO. TLG-2515



FINISHES FLOOR PLAN

SCALE: 1/8" = 1'-0"

NORTH

FLOOR FINISH NOTES

1. ALL CONCRETE FLOORS SHALL BE HIGHLY POLISHED. TO AVOID GRINDING OFF THE PAINTED STRIPES, PAINT THE STRIPES AFTER INITIAL GRINDING, BUT BEFORE THE FINAL HIGH-GRIT POLISHING.
2. PROVIDE A TOPICAL CLEAR COAT OF SEALER THAT IS SPECIFICALLY DESIGNED FOR COMPATIBILITY WITH BOTH THE PAINT AND THE POLISHING EQUIPMENT.
3. PROVIDE TWO THIN COATS OF A CLEAR SPECIALIZED URETHANE, LIKE NATIONAL POLYMER 921 TO CHEMICALLY BOND THE STRIPES TO THE CONCRETE SURFACE.
4. ALLOW PAINTED STRIPES TO CURE FOR 24-48 HOURS BEFORE APPLYING SEALER.
5. BEFORE APPLYING SEALER, ENSURE THE PAINTED SURFACES ARE FREE OF DUST OR OILS USING A TSP CLEANER.
6. APPLY THE SEALER IN TWO THIN COATS RATHER THAN ONE THICK LAYER TO PREVENT BUBBLING OR CLOUDING.
7. ENSURE THE SEALER IS FULLY CURED, TYPICALLY 72 HOURS, BEFORE BEGINNING THE FINAL POLISHING STEPS.

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NEW EMS FACILITY FOR
WASHINGTON COUNTY, VIRGINIA

HIGHLANDS BUSINESS PARK
OWENS DRIVE - GLADE SPRING, VA 24340

FINISHES FLOOR PLAN

COMMONWEALTH OF VIRGINIA
D. MICHAEL WEAVER
LIC. NO. 9031
01-30-2026
ARCHITECT

DATE	01-30-2026
NO.	REVISION DATE
1	05-12-2026
2	
3	
SHEET	A701
DRAWN BY	DMW
CHECKED BY	MRL
PROJECT NO.	TLG-2515

THE LANE GROUP INC.