

# MEPNN Supplier Scouting Opportunity Synopsis

## Section 1: General Information

Scouting Number	2025-336
Item to be Scouted	BABA Compliant Door Hardware
Days to be scouted	30
Response Due By	10/10/2025
Description	BABA Compliant: Pocket Door Lock Dust Proof Strike

## Section 2: Technical Information

Type of supplier being sought	Silencers Other Wall Stops Residential Level BABA Compliant self-certified manufacturers
Details	Mortise Lockset
Reason	BABA Base Stop Hinge Pin Stops
Describe the manufacturing processes (elaborate to provide as much detail as possible)	Domestic components in each of the BABAA compliant manufactured products must exceed 55% of the total component cost and be assembled in the United States
Provide dimensions / size / tolerances / performance specifications for the item	See attached specs and mechanical schedule for more information.
List required materials needed to make the product, including materials of product components	See attached specs and mechanical schedule for more information.
Are there applicable certification requirements?	Yes
Details	Build America, Buy America Act (BABAA) compliant
Are there applicable regulations?	Yes
Details	Must be able to submit BABAA manufactured product self-certification manufactured product letter that details a compliant product.
Are there any other standards, requirements, etc.?	No
Additional Technical Comments	See attached specs and mechanical schedule for more information.

## Section 4: Business Information

Estimated potential business volume	TBD post selection. Cost should be the best available, and cannot increase the project cost by 25%.
Estimated target price / unit cost information (if unavailable explain)	TBD post selection. Cost should be the best available, and cannot increase the project cost by 25%.
When is it needed by?	Q1 2026
Describe packaging requirements	Must arrive undamaged
Where will this item be shipped?	Colorado

# Additional Comments

Is there other information you would like to include?	<p>Nationwide Search</p> <p>Provide written documentation in response to the Supplier Scouting request of being a current Build America Buy America Act compliant Door Hardware manufacturer with experience in manufacturing the system components, meeting the product performance requirements.</p> <p>Information on BABAA compliance requirements can be found at the Made in America Office link <a href="https://www.madeinamerica.gov/">https://www.madeinamerica.gov/</a>.</p>
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**SECTION 081700**  
**INTEGRATED DOOR OPENING ASSEMBLIES**

**PART 1 GENERAL**

**1.01 SUBMITTALS**

- A. Product Data: Materials and details of design and construction, hardware locations, reinforcement type and locations, anchorage and fastening methods, and finishes.

**PART 2 PRODUCTS**

**2.01 ASSEMBLIES**

- A. Door, Frame, and Hardware Assemblies: Provide fully functional, factory-assembled and factory-finished door opening units, complete with door, frame, and hardware; complying with BHMA A156.32 and specified requirements.
  - 1. Accessibility: Comply with ICC A117.1 and ADA Standards.

**2.02 PERFORMANCE REQUIREMENTS**

- A. Comply with requirements of local building code and authorities having jurisdiction, and the following:
  - 1. Force to Open Interior Swinging Egress Doors, Non-Fire Doors: Not more than 5 lb.
  - 2. Force to Release Latch for Other Swinging Doors: Not more than 15 lb to release latch, not more than 30 lb to set door in motion, and not more than 15 lb to swing door to full open position.

**2.03 COMPONENTS**

- A. Hollow Metal Doors: Doors complying with ANSI/SDI A250.8 construction requirements exceeding Level 4 and Physical Performance Level A, Model 1 - Full Flush; electrogalvanized prior to finishing; manufacturer's standard core and reinforcements.
  - 1. Door Thickness: 1-3/4 inches.
  - 2. Level 4 Fire-Rated Doors: 14-gauge, 0.067-inch thick faces and edges.

**2.04 DOOR HARDWARE**

- A. Flush Panic Exit Devices: Provide flush panel exit device recessed into door; extruded aluminum, clear anodized finish.
  - 1. Projection From Face of Door: Maximum of 3/16 inch when door is open, minimum of 1-1/8 inches when closed.
  - 2. Face Insert: To match door finish.

**2.05 FINISHES**

**PART 3 EXECUTION**

**3.01 INSTALLATION**

- A. Install doors in accordance with manufacturer's requirements and the specified performance requirements.
- B. Install fire rated units in accordance with NFPA 80.
- C. Coordinate frame anchor placement with wall construction.

**END OF SECTION**

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**SECTION 085313  
VINYL WINDOWS****PART 1 GENERAL****1.01 SUBMITTALS**

- A. Grade Substantiation: Prior to submitting shop drawings or starting fabrication, submit one of the following showing compliance with specified grade:
  - 1. Evidence of AAMA Certification.
  - 2. Evidence of WDMA Certification.
  - 3. Evidence of CSA Certification.
  - 4. Test report(s) by independent testing agency itemizing compliance and acceptable to authorities having jurisdiction.
  - 5. National Fenestration Rating Council (NFRC) labeled windows.
  - 6. Meeting performance requirements shown below.

**1.02 WARRANTY**

- A. See Section 017800 - Closeout Submittals for additional warranty requirements.
- B. Correct defective work within a 5-year period after Date of Substantial Completion.
- C. Manufacturer's Warranty: Provide five-year manufacturer warranty for insulated glass units from seal failure, interpane dusting or misting, and replacement of same. Include coverage for degradation of vinyl color finish. Complete form in Owner's name and register with manufacturer.

**PART 2 PRODUCTS****2.01 DESCRIPTION**

- A. Vinyl Windows: Factory-fabricated frame and sash members of extruded, hollow, ultra-violet-resistant, glass-fiber reinforced polyvinyl chloride (PVC) with integral color; with factory-installed glazing, hardware, related flashings, anchorage and attachment devices.
  - 1. Configuration: As indicated on drawings.
    - a. Product Type: AP - Awning projected window, C - Casement window, and FW - Fixed window in accordance with AAMA/WDMA/CSA 101/I.S.2/A440.
    - b. Basis of Design: Prime Window Systems, 3400 Tacoma St, Union Gap, Washington, 98903.
      - 1) Casement Series 720C
      - 2) Awning Series 720
      - 3) Fixed Series 9000
  - 2. Location: For all dwelling units in the project.
  - 3. Interior Color: Adobe
  - 4. Exterior Color: Adobe
  - 5. Framing Members: Fusion welded corners and joints, with internal reinforcement where required for structural rigidity; concealed fasteners.
  - 6. System Internal Drainage: Drain to exterior side by means of weep drainage network any water entering joints, condensation within glazing channel, or other migrating moisture within system.
  - 7. Glazing Stops, Trim, Flashings, and Accessory Pieces: Formed of rigid PVC, fitting tightly into frame assembly.

**2.02 PERFORMANCE REQUIREMENTS**

- A. Grade: AAMA/WDMA/CSA 101/I.S.2/A440 requirements for specific window type:
  - 1. Performance Class (PC): R.
  - 2. Performance Grade (PG): Equivalent to or greater than specified design pressure based on City of Broomfield, Colorado, design wind speed for risk category II of building and

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exposure category.

- B. Water Leakage: No uncontrolled leakage on interior face when tested in accordance with ASTM E331 at differential pressure of 12.11 pounds per square foot.
- C. Air Leakage: Less than 0.3 cfm/sq ft leakage when tested at 1.57 psf pressure difference in accordance with ASTM E283/E283M.
- D. U-value: 0.25
- E. Product Rating: U-factors shall be determined in accordance with NFRC 100 by an accredited, independent laboratory, and labeled and certified by the manufacturer.

**2.03 COMPONENTS**

- A. Glazing: Insulated double pane, annealed glass, clear, low-E coated, argon filled, with glass thicknesses as recommended by manufacturer for specified wind conditions and acoustic rating indicated.
- B. Frame Depth: 3-1/4 inches.
- C. Insect Screens: Aluminum, extruded or roll-formed frame with mitered and reinforced corners; apply screen mesh taut to frame; secure to window with hardware to allow easy removal.
  - 1. Hardware: Manufacturer's standard; quantity as required per screen.
  - 2. Screen Mesh: Vinyl-coated fiberglass, window manufacturer's 18 x 16 mesh.
  - 3. Frame Finish: Manufacturer's standard, color to match window frame and sash color.
- D. Exterior Window Sills: As indicated on drawings.

**2.04 HARDWARE**

- A. Casement/Awning Sash: Steel rotary arm sash operating mechanism with fold-down handle and two bar adjustable hinges and keepers fitted to projecting sash arms with limit stops.
- B. Window Opening Control Devices (WOCD): Provide operable window sash hardware that limits openings to only allow passage of 4 inch diameter rigid sphere or less, and are easily releasable to fully open without use of keys, tools, or special knowledge.

**PART 3 EXECUTION****3.01 INSTALLATION**

- A. Install window unit assemblies in accordance with manufacturers instructions and applicable building codes.
- B. Attach window frame and shims to perimeter opening to accommodate construction tolerances and other irregularities as necessary.
- C. Align window plumb and level, free of warp or twist, and maintain dimensional tolerances and alignment with adjacent work.

**3.02 ADJUSTING**

- A. Adjust hardware for smooth operation and secure weathertight closure.

**END OF SECTION**

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**SECTION 085400  
COMPOSITE WINDOWS****PART 1 GENERAL****1.01 SUBMITTALS**

- A. Product Data: Provide component dimensions, anchorage and fasteners, glass, internal drainage details, and information meeting performance requirements.
- B. Shop Drawings: Indicate opening dimensions, framed opening tolerances, affected related work, installation requirements, and \_\_\_\_\_.
- C. Test and Evaluation Reports: Submit certified label or test report on products as indicated under performance requirements to validate product compliance.

**1.02 WARRANTY**

- A. Correct defective work within a 5-year period after Date of Substantial Completion.
- B. Manufacturer's Warranty: Provide five-year manufacturer warranty for insulated glass units from seal failure, interpane dusting or misting, and replacement of same. Include coverage for degradation of vinyl color finish. Complete form in Owner's name and register with manufacturer.

**PART 2 PRODUCTS****2.01 COMPOSITE WINDOW UNITS**

- A. Composite Windows: Hollow, extruded composite material consisting of 40 percent wood fiber and 60 percent thermoplastic polymer by weight; factory fabricated; with vision glass, related flashings, anchorage and attachment devices.
  - 1. Configuration: As indicated on drawings.
  - 2. Window Product Type(s): AP - Awning, hopper, projected window, C - Casement window, FW - Fixed window, and custom fixed shapes, in accordance with AAMA/WDMA/CSA 101/I.S.2/A440.
    - a. Basis of Design: Andersen 100 windows. Andersen Corporation, 100 4th Avenue North, Bayport MN, 55003.
  - 3. Location: Common House at 1355 Cottonwood St.
  - 4. Interior Color: black.
  - 5. Exterior Color: Black.
  - 6. Frame Depth: 3-1/4 inch, minimum.
  - 7. Attachment Flange: Setback 1-3/8 inch, and 1 inch with stucco key where shown in the drawings in walls to receive stucco finish .
  - 8. Frame Joining System: Attachment system for horizontal and vertical multiple window frames in compliance with designated project requirements.
    - a. Joining Strip: Kerfed and reinforced fiberglass strip, 3-11/64 inch wide by 1/2 inch thick for applying interior and exterior vinyl trim, end plugs, flange and gusset gasket, and galvanized steel gusset plates.
    - b. Vinyl trim color to match exposed frame colors.
    - c. Fasteners: Corrosion resistant screws as recommended by manufacturer for required applications.
  - 9. Glass Stops: Same material and color as frame, sloped for wash, factory applied.

**2.02 COMPONENTS**

- A. Sills: \_\_\_\_\_ inch nominal thickness, brake formed aluminum; sloped for positive wash; fit under sash to 1/2 inch beyond wall face; one piece full width of opening.
- B. Insect Screen Frame: Aluminum frame of rectangular sections; fit with adjustable hardware; nominal size similar to operable glazed unit.
  - 1. Frame Color: Match window frame color.

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- C. Insect Screens: Fiberglass cloth mesh, secured with vinyl spline.
- D. Fasteners: Stainless steel.

**2.03 PERFORMANCE REQUIREMENTS**

- A. Comply with AAMA/WDMA/CSA 101/I.S.2/A440 requirements in accordance with the following:
  - 1. Performance Class (PC): LC.
  - 2. Performance Grade (PG): Equivalent to or greater than specified design pressure based on City of Broomfield, Colorado, design wind speed for risk category II of building and exposure category..
- B. Test and Evaluation Reports: Windows comply with AAMA/WDMA/CSA 101/I.S.2/A440 performance requirements as indicated by having AAMA, WDMA, or CSA certified label, or an independent test report for indicated products itemizing compliance and acceptable by authorities having jurisdiction.
- C. Design and size components to support assembly dead loads, and to withstand live loads caused by positive and negative wind pressure acting normal to plane of window.
- D. Overall Thermal Transmittance (U-value): 0.35, maximum, per NFRC 100 testing, and as shown needed in the energy modeling documentation in the project manual for the Common House, based on window sizes and types required for the Common House.
- E. Air Leakage: 0.3 cfm/sq ft maximum leakage of window when tested at 1.57 psf pressure difference in accordance with ASTM E283/E283M.
- F. System Internal Drainage: Drain water entering joints, condensation occurring in glazing channels, or migrating moisture occurring within system, to the exterior by a weep drainage network.

**2.04 GLASS AND GLAZING MATERIALS**

- A. Glass and Glazing Materials: See Section 088000 for types as indicated.

**2.05 HARDWARE**

- A. Casement and Awning Sash: Zinc die-cast steel rotary-gear operator with painted finish.
  - 1. Operator Linkage, Hinge Slide, and Hinge Arms: Manufacturer's standard, with heavy gauge arms.
  - 2. Sash Lock: Single actuations, galvanized steel and polymer components.
- B. Window Opening Control Devices (WOCD): Provide operable window sash hardware that limits openings to only allow passage of 4 inch diameter rigid sphere or less, and are easily releasable to fully open without use of keys, tools, or special knowledge.

**PART 3 EXECUTION****3.01 INSTALLATION**

- A. Install composite window units in accordance with manufacturer's instructions.
- B. Attach window frame and shims to perimeter of opening to accommodate construction tolerances and other irregularities.
- C. Align window plumb and level, free of warp or twist. Maintain dimensional tolerances and alignment with adjacent work.

**3.02 ADJUSTING**

- A. Adjust hardware for smooth operation and secure weathertight closure.

**END OF SECTION**

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**SECTION 087100 - DOOR HARDWARE****PART 1 - GENERAL****1.01 SUMMARY****A. Section includes:**

1. Mechanical and electrified door hardware
2. Electronic access control system components

**B. Section excludes:**

1. Windows
2. Cabinets (casework), including locks in cabinets
3. Signage
4. Toilet accessories
5. Overhead doors

**C. Related Sections:**

1. Division 01 "General Requirements" sections for Allowances, Alternates, Owner Furnished Contractor Installed, Project Management and Coordination.
2. Division 06 Section "Finish Carpentry"
3. Division 06 Section "Finish Carpentry"
4. Division 07 Section "Joint Sealants" for sealant requirements applicable to threshold installation specified in this section.
5. Division 08 Sections:
  - a. "Metal Doors and Frames"
  - b. "Flush Wood Doors"
  - c. "Stile and Rail Wood Doors"
  - d. "Interior Aluminum Doors and Frames"
  - e. "Aluminum-Framed Entrances and Storefronts"
  - f. "Stainless Steel Doors and Frames"
  - g. "Special Function Doors"
  - h. "Entrances"
6. Division 26 "Electrical" sections for connections to electrical power system and for low-voltage wiring.
7. Division 28 "Electronic Safety and Security" sections for coordination with other components of electronic access control system and fire alarm system.

**1.02 REFERENCES****A. UL LLC**

1. UL 10B - Fire Test of Door Assemblies
2. UL 10C - Positive Pressure Test of Fire Door Assemblies
3. UL 1784 - Air Leakage Tests of Door Assemblies
4. UL 305 - Panic Hardware



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**B. DHI - Door and Hardware Institute**

1. Sequence and Format for the Hardware Schedule
2. Recommended Locations for Builders Hardware
3. Keying Systems and Nomenclature
4. Installation Guide for Doors and Hardware

**C. NFPA – National Fire Protection Association**

1. NFPA 70 – National Electric Code
2. NFPA 80 – 2016 Edition – Standard for Fire Doors and Other Opening Protectives
3. NFPA 101 – Life Safety Code
4. NFPA 105 – Smoke and Draft Control Door Assemblies
5. NFPA 252 – Fire Tests of Door Assemblies

**D. ANSI - American National Standards Institute**

1. ANSI A117.1 – 2017 Edition – Accessible and Usable Buildings and Facilities
2. ANSI/BHMA A156.1 - A156.29, and ANSI/BHMA A156.31 - Standards for Hardware and Specialties
3. ANSI/BHMA A156.28 - Recommended Practices for Keying Systems
4. ANSI/WDMA I.S. 1A - Interior Architectural Wood Flush Doors
5. ANSI/SDI A250.8 - Standard Steel Doors and Frames

**1.03 SUBMITTALS****A. General:**

1. Submit in accordance with Conditions of Contract and Division 01 Submittal Procedures.
2. Prior to forwarding submittal:
  - a. Review drawings and Sections from related trades to verify compatibility with specified hardware.
  - b. Highlight, encircle, or otherwise specifically identify on submittals: deviations from Contract Documents, issues of incompatibility or other issues which may detrimentally affect the Work.

**B. Action Submittals:**

1. Product Data: Submit technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
2. Riser and Wiring Diagrams: After final approval of hardware schedule, submit details of electrified door hardware, indicating:
  - a. Wiring Diagrams: For power, signal, and control wiring and including:
    - 1) Details of interface of electrified door hardware and building safety and security systems.
    - 2) Schematic diagram of systems that interface with electrified door hardware.
    - 3) Point-to-point wiring.
    - 4) Risers.
3. Samples for Verification: If requested by Architect, submit production sample of requested door hardware unit in finish indicated and tagged with full description for coordination with schedule.

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- a. Samples will be returned to supplier. Units that are acceptable to Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements.
- 4. Door Hardware Schedule:
  - a. Submit concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate fabrication of other work critical in Project construction schedule.
  - b. Submit under direct supervision of a Door Hardware Institute (DHI) certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) with hardware sets in vertical format as illustrated by Sequence of Format for the Hardware Schedule published by DHI.
  - c. Indicate complete designations of each item required for each opening, include:
    - 1) Door Index: door number, heading number, and Architect's hardware set number.
    - 2) Quantity, type, style, function, size, and finish of each hardware item.
    - 3) Name and manufacturer of each item.
    - 4) Fastenings and other pertinent information.
    - 5) Location of each hardware set cross-referenced to indications on Drawings.
    - 6) Explanation of all abbreviations, symbols, and codes contained in schedule.
    - 7) Mounting locations for hardware.
    - 8) Door and frame sizes and materials.
    - 9) Degree of door swing and handing.
    - 10) Operational Description of openings with electrified hardware covering egress, ingress (access), and fire/smoke alarm connections.
- 5. Key Schedule:
  - a. After Keying Conference, provide keying schedule that includes levels of keying, explanations of key system's function, key symbols used, and door numbers controlled.
  - b. Use ANSI/BHMA A156.28 "Recommended Practices for Keying Systems" as guideline for nomenclature, definitions, and approach for selecting optimal keying system.
  - c. Provide 3 copies of keying schedule for review prepared and detailed in accordance with referenced DHI publication. Include schematic keying diagram and index each key to unique door designations.
  - d. Index keying schedule by door number, keyset, hardware heading number, cross keying instructions, and special key stamping instructions.
  - e. Provide one complete bitting list of key cuts and one key system schematic illustrating system usage and expansion. Forward bitting list, key cuts and key system schematic directly to Owner, by means as directed by Owner.
  - f. Prepare key schedule by or under supervision of supplier, detailing Owner's final keying instructions for locks.

**C. Informational Submittals:**

- 1. Provide Qualification Data for Supplier, Installer and Architectural Hardware Consultant.
- 2. Provide Product Data:
  - a. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.
  - b. Include warranties for specified door hardware.

**D. Closeout Submittals:**

- 1. Operations and Maintenance Data: Provide in accordance with Division 01 and include:

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- a. Complete information on care, maintenance, and adjustment; data on repair and replacement parts, and information on preservation of finishes.
- b. Catalog pages for each product.
- c. Final approved hardware schedule edited to reflect conditions as installed.
- d. Final keying schedule
- e. Copy of warranties including appropriate reference numbers for manufacturers to identify project.
- f. As-installed wiring diagrams for each opening connected to power, both low voltage and 110 volts.

E. Inspection and Testing:

1. Submit written reports to the Owner and Authority Having Jurisdiction (AHJ) of the results of functional testing and inspection for:
  - a. Fire door assemblies, in compliance with NFPA 80.
  - b. Required egress door assemblies, in compliance with NFPA 101.

#### 1.04 QUALITY ASSURANCE

A. Qualifications and Responsibilities:

1. Supplier: Recognized architectural hardware supplier with a minimum of 5 years documented experience supplying both mechanical and electromechanical door hardware similar in quantity, type, and quality to that indicated for this Project. Supplier to be recognized as a factory direct distributor by the manufacturer of the primary materials with a warehousing facility in the Project's vicinity. Supplier to have on staff, a certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) available to Owner, Architect, and Contractor, at reasonable times during the Work for consultation.
2. Installer: Qualified tradesperson skilled in the application of commercial grade hardware with experience installing door hardware similar in quantity, type, and quality as indicated for this Project.
3. Architectural Hardware Consultant: Person 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 and meets these requirements:
  - a. For door hardware: DHI certified AHC or DHC.
  - b. Can provide installation and technical data to Architect and other related subcontractors.
  - c. Can inspect and verify components are in working order upon completion of installation.
  - d. Capable of producing wiring diagram and coordinating installation of electrified hardware with Architect and electrical engineers.
4. Single Source Responsibility: Obtain each type of door hardware from single manufacturer.

B. Certifications:

1. Fire-Rated Door Openings:
  - a. Provide door hardware for fire-rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction.

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- b. Provide only items of door hardware that are listed products tested by UL LLC, Intertek Testing Services, or other testing and inspecting organizations acceptable to authorities having jurisdiction for use on types and sizes of doors indicated, based on testing at positive pressure and according to NFPA 252 or UL 10C and in compliance with requirements of fire-rated door and door frame labels.
2. Smoke and Draft Control Door Assemblies:
  - a. Provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105
  - b. Comply with the maximum air leakage of 0.3 cfm/sq. ft. (3 cu. m per minute/sq. m) at tested pressure differential of 0.3-inch wg (75 Pa) of water.
3. Electrified Door Hardware
  - a. Listed and labeled as defined in NFPA 70, Article 100, by testing agency acceptable to authorities having jurisdiction.
4. Accessibility Requirements:
  - a. Comply with governing accessibility regulations cited in "REFERENCES" article 087100, 1.02.D3 herein for door hardware on doors in an accessible route. This project must comply with all Federal Americans with Disability Act regulations and all Local Accessibility Regulations.

**C. Pre-Installation Meetings**

1. Keying Conference
  - a. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including:
    - 1) Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
    - 2) Preliminary key system schematic diagram.
    - 3) Requirements for key control system.
    - 4) Requirements for access control.
    - 5) Address for delivery of keys.
2. Pre-installation Conference
  - a. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
  - b. Inspect and discuss preparatory work performed by other trades.
  - c. Inspect and discuss electrical roughing-in for electrified door hardware.
  - d. Review sequence of operation for each type of electrified door hardware.
  - e. Review required testing, inspecting, and certifying procedures.
  - f. Review questions or concerns related to proper installation and adjustment of door hardware.
3. Electrified Hardware Coordination Conference:
  - a. Prior to ordering electrified hardware, schedule and hold meeting to coordinate door hardware with security, electrical, doors and frames, and other related suppliers.

**1.05 DELIVERY, STORAGE, AND HANDLING**

- A. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site. Promptly replace products damaged during shipping.

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- B. Tag each item or package separately with identification coordinated with final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package. Deliver each article of hardware in manufacturer's original packaging.
- C. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.
- D. Provide secure lock-up for door hardware delivered to Project. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.
- E. Handle hardware in manner to avoid damage, marring, or scratching. Correct, replace or repair products damaged during Work. Protect products against malfunction due to paint, solvent, cleanser, or any chemical agent.
- F. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.

**1.06 COORDINATION**

- A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete.
- B. Installation Templates: Distribute for doors, frames, and other work specified to be factory or shop prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
- C. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.
- D. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.

**1.07 WARRANTY**

- A. Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within published warranty period.
  - 1. Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.
  - 2. Warranty Period: Beginning from date of Substantial Completion, for durations indicated in manufacturer's published listings.
    - a. Mechanical Warranty
      - 1) Locks
        - a) Falcon: 10 years
      - 2) Exit Devices
        - a) Falcon: 10 years
      - 3) Closers
        - a) Falcon SC Series: 10 years

**1.08 MAINTENANCE**

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- A. Furnish complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.
- B. Turn over unused materials to Owner for maintenance purposes.

**PART 2 - PRODUCTS****2.01 MANUFACTURERS**

- A. Approval of alternate manufacturers and/or products other than those listed as "Scheduled Manufacturer" or "Acceptable Manufacturers" in the individual article for the product category are only to be considered by official substitution request in accordance with section 01 25 00.
- B. Approval of products from manufacturers indicated in "Acceptable Manufacturers" is contingent upon those products providing all functions and features and meeting all requirements of scheduled manufacturer's product.
- C. Where specified hardware is not adaptable to finished shape or size of members requiring hardware, furnish suitable types having same operation and quality as type specified, subject to Architect's approval.

**2.02 MATERIALS**

- A. Fabrication
  - 1. Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. provide screws according to manufacturer's recognized installation standards for application intended.
  - 2. Finish exposed screws to match hardware finish, or, if exposed in surfaces of other work, to match finish of this other work including prepared for paint surfaces to receive painted finish.
  - 3. Provide concealed fasteners wherever possible for hardware units exposed when door is closed. Coordinate with "Metal Doors and Frames", "Flush Wood Doors", "Stile and Rail Wood Doors" to ensure proper reinforcements. Advise the Architect where visible fasteners, such as thru bolts, are required.
- B. Provide screws, bolts, expansion shields, drop plates and other devices necessary for hardware installation.
  - 1. Where fasteners are exposed to view: Finish to match adjacent door hardware material.
- C. Cable and Connectors:
  - 1. Where scheduled in the hardware sets, provide each item of electrified hardware and wire harnesses with number and gage of wires enough to accommodate electric function of specified hardware.
  - 2. Provide Molex connectors that plug directly into connectors from harnesses, electric locking and power transfer devices.
  - 3. Provide through-door wire harness for each electrified locking device installed in a door and wire harness for each electrified hinge, electrified continuous hinge, electrified pivot, and electric power transfer for connection to power supplies.

**BHA COTTONWOOD**

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Broomfield, CO 80020

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**2.03 HINGES****GMP SET**

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**A. Manufacturers and Products:**

1. Scheduled Manufacturer and Product:
  - a. Ives 5BB series
2. Acceptable Manufacturers and Products: SUBSTITUTES BY ARCHITECT APPROVAL

**B. Requirements:**

1. Provide hinges conforming to ANSI/BHMA A156.1.
2. Provide five knuckle, ball bearing hinges.
3. 1-3/4 inch (44 mm) thick doors, up to and including 36 inches (914 mm) wide:
  - a. Exterior: Standard weight, bronze or stainless steel, 4-1/2 inches (114 mm) high
  - b. Interior: Standard weight, steel, 4-1/2 inches (114 mm) high
4. 1-3/4 inch (44 mm) thick doors over 36 inches (914 mm) wide:
  - a. Exterior: Heavy weight, bronze/stainless steel, 5 inches (127 mm) high
  - b. Interior: Heavy weight, steel, 5 inches (127 mm) high
5. 2 inches or thicker doors:
  - a. Exterior: Heavy weight, bronze or stainless steel, 5 inches (127 mm) high
  - b. Interior: Heavy weight, steel, 5 inches (127 mm) high
6. Adjust hinge width for door, frame, and wall conditions to allow proper degree of opening.
7. Provide three hinges per door leaf for doors 90 inches (2286 mm) or less in height, and one additional hinge for each 30 inches (762 mm) of additional door height.
8. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:
  - a. Steel Hinges: Steel pins
  - b. Non-Ferrous Hinges: Stainless steel pins
  - c. Out-Swinging Exterior Doors: Non-removable pins
  - d. Out-Swinging Interior Lockable Doors: Non-removable pins
  - e. Interior Non-lockable Doors: Non-rising pins
9. Provide hinges with electrified options as scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware. Locate electric hinge at second hinge from bottom or nearest to electrified locking component. Provide mortar guard for each electrified hinge specified.

**2.04 FLUSH BOLTS****A. Manufacturers:**

1. Scheduled Manufacturer:
  - a. Ives
2. Acceptable Manufacturers: SUBSTITUTES BY ARCHITECT APPROVAL

**B. Requirements:**

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1. Provide automatic, constant latching, and manual flush bolts with forged bronze or stainless-steel face plates, extruded brass levers, and with wrought brass guides and strikes. Provide 12 inch (305 mm) steel or brass rods at doors up to 90 inches (2286 mm) in height. For doors over 90 inches (2286 mm) in height increase top rods by 6 inches (152 mm) for each additional 6 inches (152 mm) of door height. Provide dust-proof strikes at each bottom flush bolt.

**2.05 COORDINATORS****A. Manufacturers:**

1. Scheduled Manufacturer:
  - a. Ives
2. Acceptable Manufacturers: SUBSTITUTES BY ARCHITECT APPROVAL

**B. Requirements:**

1. Where pairs of doors are equipped with automatic flush bolts, an astragal, or other hardware that requires synchronized closing of the doors, provide bar-type coordinating device, surface applied to underside of stop at frame head.
2. Provide filler bar of correct length for unit to span entire width of opening, and appropriate brackets for parallel arm door closers, surface vertical rod exit device strikes, or other stop mounted hardware. Factory-prepared coordinators for vertical rod devices as specified.

**2.06 MORTISE LOCKS****A. Manufacturers and Products:**

1. Scheduled Manufacturer and Product:
  - a. Schlage L9000 series
2. Acceptable Manufacturers and Products: SUBSTITUTES BY ARCHITECT APPROVAL

**B. Requirements:**

1. Provide mortise locks conforming to ANSI/BHMA A156.13 Series 1000, Grade 1, and UL Listed for 3-hour fire doors.
2. Indicators: Where specified, provide indicator window measuring a minimum 2-3/5-inch x 3/5 inch with 180-degree visibility. Provide messages color-coded using ANSI Z535 Safety Red with full text and/or symbols, as scheduled, for easy visibility. When applicable allows for lock status indication on both sides of the door.
3. Provide locks manufactured from heavy gauge steel, containing components of steel with a zinc dichromate plating for corrosion resistance.
4. Provide lock case that is multi-function and field reversible for handing without opening case. Cylinders: Refer to "KEYING" article, herein.
5. Provide locks with standard 2-3/4 inches (70 mm) backset with full 3/4 inch (19 mm) throw stainless steel mechanical anti-friction latchbolt. Provide deadbolt with full 1-inch (25 mm) throw, constructed of stainless steel.
6. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim. Provide electrified options as scheduled in the hardware sets. Where scheduled, provide switches and sensors integrated into the locks and latches.



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7. Provide motor based electrified locksets that comply with the following requirements:
  - a. Universal input voltage – single chassis accepts 12 or 24VDC to allow for changes in the field without changing lock chassis.
  - b. Fail Safe/Fail Secure – changing mode between electrically locked (fail safe) and electrically unlocked (fail secure) is field selectable without opening the lock case.
  - c. Low maximum current draw – maximum 0.4 amps to allow for multiple locks on a single power supply.
  - d. Low holding current – maximum 0.01 amps to produce minimal heat, eliminate “hot levers” in electrically locked applications, and to provide reliable operation in wood doors that provide minimal ventilation and air flow.
  - e. Connections – provide quick-connect Molex system standard.
8. (KEY OVERRIDE OPTION WHEN XL13-439 IS SPECIFIED IN HARDWARE SETS)  
Provide locks with a key override feature built into the chassis that allows the outside key to retract the deadbolt and/or latchbolt, overriding the inside thumbturn when it is being held in the locked position.
9. Lever Trim: Solid brass, bronze, or stainless steel, cast or forged in design specified, with wrought roses and external lever spring cages. Provide thru-bolted levers with 2-piece spindles.
  - a. Vandlgard: Provide levers with vandal resistant technology for use at heavy traffic or abusive applications.
  - b. Lever Design: LATITUDE (LAT)

**2.07 CYLINDRICAL LOCKS – GRADE 1****A. Manufacturers and Products:**

1. Scheduled Manufacturer and Product:
  - a. Falcon T series
2. Acceptable Manufacturers and Products: SUBSTITUTES BY ARCHITECT APPROVAL

**B. Requirements:**

1. Provide cylindrical locks conforming to ANSI/BHMA A156.2 Series 4000, Grade 1, and UL Listed for 3-hour fire doors.
2. Cylinders: Refer to "KEYING" article, herein.
3. Provide locks with standard 2-3/4 inches (70 mm) backset, unless noted otherwise, with 1/2-inch latch throw. Provide proper latch throw for UL listing at pairs.
4. Provide locksets with separate anti-rotation thru-bolts, and no exposed screws.
5. Provide independently operating levers with two external return spring cassettes mounted under roses to prevent lever sag.
6. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
7. Provide electrified options as scheduled in the hardware sets.
8. Lever Trim: Solid cast levers without plastic inserts and wrought roses on both sides.
  - a. Lever Design: LATITUDE (LAT)

**2.08 CYLINDRICAL LOCKS – GRADE 2****A. Manufacturers and Products:**

1. Scheduled Manufacturer and Product:

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- a. Falcon W series

- 2. Acceptable Manufacturers and Products: SUBSTITUTES BY ARCHITECT APPROVAL

**B. Requirements:**

- 1. Provide cylindrical locks conforming to ANSI/BHMA A156.2 Series 4000, Grade 2, and UL Listed for 3-hour fire doors.
- 2. Cylinders: Refer to "KEYING" article, herein.
- 3. Provide locks with standard 2-3/4 inches (70 mm) backset, unless noted otherwise, with 1/2-inch latch throw. Provide proper latch throw for UL listing at pairs.
- 4. Provide locksets with separate anti-rotation thru-bolts, and no exposed screws.
- 5. Provide independently operating levers with two external return spring cassettes mounted under roses to prevent lever sag.
- 6. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
- 7. Lever Trim: Solid cast levers without plastic inserts and wrought roses on both sides.
  - a. Lever Design: LATITUDE (LAT)

**2.09 TUBULAR LOCKS – GRADE 2****A. Manufacturers and Products:**

- 1. Scheduled Manufacturer and Product:
  - a. Schlage F series
- 2. Acceptable Manufacturers and Products: SUBSTITUTES BY ARCHITECT APPROVAL

**B. Requirements:**

- 1. Provide tubular locks conforming to ANSI/BHMA A156.2 Series 4000, Grade 2, Grade 2 and ANSI/BHMA A156.39 Residential Grade AAA, and UL Listed for 3-hour fire doors.
- 2. Cylinders: Refer to "KEYING" article, herein.
- 3. Provide locks with standard 2-3/8 inches (60 mm) adjustable to 2-3/4 inches (70 mm) backset with 1/2-inch (13 mm) latch throw. Provide 2-3/4 inches (70 mm) backset, unless 2-3/8 inches (60 mm) is required by door or frame detail or noted otherwise.
- 4. Provide locksets that fit standard 2-1/8 inches (54 mm) diameter bore without use of thru bolts.
- 5. Door Thickness: Locksets adjustable to fit in 1-3/8 inches (35 mm) or 1-3/4 inches (44 mm) door thickness.
- 6. Provide standard T-strikes unless extended lip strikes are necessary to protect trim.
- 7. Lever Trim: Solid cast levers without plastic inserts and wrought roses on both sides.
  - a. Lever Design: LATITUDE (LAT)

**2.10 EXIT DEVICES****A. Manufacturers and Products:**

- 1. Scheduled Manufacturer and Product:
  - a. Falcon 24/25 series
- 2. Acceptable Manufacturers and Products: SUBSTITUTES BY ARCHITECT APPROVAL

**B. Requirements:**

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1. Provide exit devices tested to ANSI/BHMA A156.3 Grade 1 and UL listed for Panic Exit or Fire Exit Hardware.
2. Cylinders: Refer to "KEYING" article, herein.
3. Provide touchpad type exit devices, fabricated of brass, bronze, stainless steel, or aluminum, plated to standard architectural finishes to match balance of door hardware.
4. Touchpad must extend a minimum of one half of door width. No plastic inserts are allowed in touchpads.
5. Provide exit devices with deadlatching feature for security and for future addition of alarm kits and/or other electrified requirements.
6. Provide flush end caps for exit devices.
7. Provide exit devices with manufacturer's approved strikes.
8. Provide exit devices cut to door width and height. Install exit devices at height recommended by exit device manufacturer, allowable by governing building codes, and approved by Architect.
9. Mount mechanism case flush on face of doors or provide spacers to fill gaps behind devices. Where glass trim or molding projects off face of door, provide glass bead kits.
10. Provide cylinder or hex-key dogging as specified at non fire-rated openings.
11. Removable Mullions: 2 inches (51 mm) x 3 inches (76 mm) steel tube. Where scheduled as keyed removable mullion, provide type that can be removed by use of a keyed cylinder, which is self-locking when re-installed.
12. Provide factory drilled weep holes for exit devices used in full exterior application, highly corrosive areas, and where noted in hardware sets.
13. Provide electrified options as scheduled.
14. Provide exit devices with optional trim designs to match other lever and pull designs used on the project.

## 2.11 ELECTRONIC PROGRAMMABLE DEADBOLTS

### A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
  - a. Schlage BE467F
2. Provide a programmable stand-alone Electronic Deadbolt that is computer managed. Deadbolt to conform to ANSI A156.5-2000 grade 2 and ANSI/BHMA certified.
3. Provide deadbolts with standard 2-3/4 inches (70 mm) backset. Provide 2-3/8 inches (60 mm) where noted or if door or frame detail requires. Provide deadbolt with full 1-inch (25 mm) throw, constructed of steel alloy.
4. Rose/Escutcheon Design: Greenwich (GRW)

### B. Requirements:

1. Provide programmable electronic deadbolts with the following:
  - a. Time and Date controlled access.
  - b. Up to 500 users.
  - c. 1000 event Audit Trail report.
  - d. 8 time zone capability
2. Provide entry by a Key fob that supports Schlage MIFARE classic, Schlage DESFire EV1/EV3 and Schlage Mobile credentials.
3. Provide power by four (4) AA batteries (included), where if loss of battery power occurs, a 9V battery can be used to jump start the lock and provide access with an assigned credential. Battery life of 2 years in OFF-LINE MODE.
4. Coordinate with Division 01 and 281300 Access Control.

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**2.12 ELECTRIC STRIKES****A. Manufacturers and Products:**

1. Scheduled Manufacturer and Product:
  - a. Von Duprin 6000 Series
2. Acceptable Manufacturers and Products: SUBSTITUTES BY ARCHITECT APPROVAL

**B. Requirements:**

1. Provide electric strikes designed for use with type of locks shown at each opening.
2. Provide electric strikes UL Listed as burglary resistant that are tested to a minimum endurance test of 1,000,000 cycles.
3. Where required, provide electric strikes UL Listed for fire doors and frames.
4. Provide transformers and rectifiers for each strike as required. Verify voltage with electrical contractor.

**2.13 POWER SUPPLIES****A. Manufacturers and Products:**

1. Scheduled Manufacturer and Product:
  - a. Schlage/Von Duprin PS900 Series
2. Acceptable Manufacturers and Products: SUBSTITUTES BY ARCHITECT APPROVAL

**B. Requirements:**

1. Provide power supplies approved by manufacturer of supplied electrified hardware.
2. Provide appropriate quantity of power supplies necessary for proper operation of electrified locking components as recommended by manufacturer of electrified locking components with consideration for each electrified component using power supply, location of power supply, and approved wiring diagrams. Locate power supplies as directed by Architect.
3. Provide regulated and filtered 24 VDC power supply, and UL class 2 listed.
4. Provide power supplies with the following features:
  - a. 12/24 VDC Output, field selectable.
  - b. Class 2 Rated power limited output.
  - c. Universal 120-240 VAC input.
  - d. Low voltage DC, regulated and filtered.
  - e. Polarized connector for distribution boards.
  - f. Fused primary input.
  - g. AC input and DC output monitoring circuit w/LED indicators.
  - h. Cover mounted AC Input indication.
  - i. Tested and certified to meet UL294.
  - j. NEMA 1 enclosure.
  - k. Hinged cover w/lock down screws.
  - l. High voltage protective cover.

**2.14 CYLINDERS****A. Manufacturers:**

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1. Scheduled Manufacturer and Product: **VERIFY WITH OWNER**

**B. Requirements:**

1. Provide cylinders/cores to match Owner's existing key system, compliant with ANSI/BHMA A156.5; latest revision; cylinder face finished to match lockset, manufacturer's series as indicated. Refer to "KEYING" article, herein.

**2.15 KEYING****A. Scheduled System: VERIFY WITH OWNER**

1. New factory registered system:
  - a. Provide a factory registered keying system, complying with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.
2. Existing factory registered system:
  - a. Provide cylinders/cores keyed into Owner's existing factory registered keying system. Comply with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.
3. Existing non-factory registered system:
  - a. Provide cylinders/cores keyed into Owner's existing keying system managed by Owner's locksmith, complying with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference. Contact:
    - 1) Firm Name:
    - 2) Contact Person:
    - 3) Telephone:

**B. Requirements:**

1. Construction Keying:
  - a. Temporary Construction Cylinder Keying.
    - 1) Provide construction cores that permit voiding construction keys without cylinder removal, furnished in accordance with the following requirements.
      - a) Split Key or Lost Ball Construction Keying System.
      - b) 3 construction control keys, and extractor tools or keys as required to void construction keying.
      - c) 12 construction change (day) keys.
    - 2) Owner or Owner's Representative will void operation of temporary construction keys.
  - b. Replaceable Construction Cores.
    - 1) Provide temporary construction cores replaceable by permanent cores, furnished in accordance with the following requirements.
      - a) 3 construction control keys
      - b) 12 construction change (day) keys.
    - 2) Owner or Owner's Representative will replace temporary construction cores with permanent cores.
2. Permanent Keying:
  - a. Provide permanent cylinders/cores keyed by the manufacturer according to the following key system.
    - 1) Master Keying system as directed by the Owner.

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- b. Forward biting list and keys separately from cylinders, by means as directed by Owner. Failure to comply with forwarding requirements will be cause for replacement of cylinders/cores involved at no additional cost to Owner.
- c. Provide keys with the following features:
  - 1) Material: Nickel silver; minimum thickness of .107-inch (2.3mm)
  - 2) Patent Protection: Keys and blanks protected by one or more utility patent(s).
  - 3) Geographically Exclusive: Where High Security or Security cylinders/cores are indicated, provide nationwide, geographically exclusive key system complying with the following restrictions.
- d. Identification:
  - 1) Mark permanent cylinders/cores and keys with applicable blind code for identification. Do not provide blind code marks with actual key cuts.
  - 2) Identification stamping provisions must be approved by the Architect and Owner.
  - 3) Stamp cylinders/cores and keys with Owner's unique key system facility code as established by the manufacturer; key symbol and embossed or stamped with "DO NOT DUPLICATE" along with the "PATENTED" or patent number to enforce the patent protection.
  - 4) Failure to comply with stamping requirements will be cause for replacement of keys involved at no additional cost to Owner.
  - 5) Forward permanent cylinders/cores to Owner, separately from keys, by means as directed by Owner.
- e. Quantity: Furnish in the following quantities.
  - 1) Permanent Control Keys: 3.
  - 2) Master Keys: 6.
  - 3) Change (Day) Keys: 3 per cylinder/core that is keyed differently
  - 4) Key Blanks: Quantity as determined in the keying meeting.

**2.16 KEY CONTROL SYSTEM****A. Manufacturers:**

- 1. Scheduled Manufacturer:
  - a. Telkee
- 2. Acceptable Manufacturers:
  - a. HPC
  - b. Lund

**B. Requirements:**

- 1. Provide key control system, including envelopes, labels, tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet, all as recommended by system manufacturer, with capacity for 150% of number of locks required for Project.
  - a. Provide complete cross index system set up by hardware supplier, and place keys on markers and hooks in cabinet as determined by final key schedule.
  - b. Provide hinged-panel type cabinet for wall mounting.

**2.17 DOOR CLOSERS****A. Manufacturers and Products:**

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1. Scheduled Manufacturer and Product:
  - a. Falcon SC70A series
2. Acceptable Manufacturers and Products: SUBSTITUTES BY ARCHITECT APPROVAL

**B. Requirements:**

1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. ISO 9000 certify closers. Stamp units with date of manufacture code.
2. Provide door closers with fully hydraulic, full rack and pinion action with aluminum cylinder.
3. Closer Body: 1-1/2-inch (38 mm) diameter with 5/8-inch (16 mm) diameter heat-treated pinion journal.
4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards.
6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck.
7. Pressure Relief Valve (PRV) Technology: Not permitted.
8. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.

**2.18 DOOR CLOSERS****A. Manufacturers and Products:**

1. Scheduled Manufacturer and Product:
  - a. Falcon SC60A series
2. Acceptable Manufacturers and Products: SUBSTITUTES BY ARCHITECT APPROVAL

**B. Requirements:**

1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory.
2. Provide door closers with fully hydraulic, full rack and pinion action with aluminum cylinder.
3. Closer Body: 1-3/8-inch (35 mm) diameter with 5/8-inch (16 mm) diameter pinion journal.
4. Hydraulic Fluid: Fireproof, passing requirements of UL10C.
5. Pressure Relief Valve (PRV) Technology: Not permitted.
6. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.

**2.19 DOOR TRIM****A. Manufacturers:**

1. Scheduled Manufacturer:
  - a. Ives

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2. Acceptable Manufacturers: SUBSTITUTES BY ARCHITECT APPROVAL

B. Requirements:

1. Provide push plates, push bars, pull plates, pulls, and hands-free reversible door pulls with diameter and length as scheduled.

## 2.20 PROTECTION PLATES

A. Manufacturers:

1. Scheduled Manufacturer:
  - a. Ives
2. Acceptable Manufacturers: SUBSTITUTES BY ARCHITECT APPROVAL

B. Requirements:

1. Provide protection plates with a minimum of 0.050 inch (1 mm) thick, beveled four edges as scheduled. Furnish with sheet metal or wood screws, finished to match plates.
2. Sizes plates 2 inches (51 mm) less width of door on single doors, pairs of doors with a mullion, and doors with edge guards. Size plates 1 inch (25 mm) less width of door on pairs without a mullion or edge guards.
3. At fire rated doors, provide protection plates over 16 inches high with UL label.

## 2.21 OVERHEAD STOPS AND OVERHEAD STOP/HOLDERS

A. Manufacturers:

1. Scheduled Manufacturers:
  - a. Glynn-Johnson
2. Acceptable Manufacturers: SUBSTITUTES BY ARCHITECT APPROVAL

B. Requirements:

1. Provide overhead stop at any door where conditions do not allow for a wall stop or floor stop presents tripping hazard.

## 2.22 DOOR STOPS AND HOLDERS

A. Manufacturers:

1. Scheduled Manufacturer:
  - a. Ives
2. Acceptable Manufacturers: SUBSTITUTES BY ARCHITECT APPROVAL

B. Provide door stops at each door leaf:

1. Provide wall stops wherever possible. Provide concave type where lockset has a push button of thumbturn.



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2. Where a wall stop cannot be used, provide universal floor stops.
3. Where wall or floor stop cannot be used, provide overhead stop.
4. Provide roller bumper where doors open into each other and overhead stop cannot be used.

## 2.23 THRESHOLDS, SEALS, DOOR SWEEPS, AUTOMATIC DOOR BOTTOMS, AND GASKETING

### A. Manufacturers:

1. Scheduled Manufacturer:
  - a. Zero International
2. Acceptable Manufacturers: SUBSTITUTES BY ARCHITECT APPROVAL

### B. Requirements:

1. Provide thresholds, weather-stripping, and gasketing systems as specified and per architectural details. Match finish of other items.
2. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door assemblies are required, provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.
3. Provide door sweeps, seals, astragals, and auto door bottoms only of type where resilient or flexible seal strip is easily replaceable and readily available.
4. Size thresholds 1/2 inch (13 mm) high by 5 inches (127 mm) wide by door width unless otherwise specified in the hardware sets or detailed in the drawings.

## 2.24 SILENCERS

### A. Manufacturers:

1. Scheduled Manufacturer:
  - a. Ives
2. Acceptable Manufacturers: SUBSTITUTES BY ARCHITECT APPROVAL

### B. Requirements:

1. Provide "push-in" type silencers for hollow metal or wood frames.
2. Provide one silencer per 30 inches (762 mm) of height on each single frame, and two for each pair frame.
3. Omit where gasketing is specified.

## 2.25 BALL CATCHES

### A. Manufacturers:

1. Scheduled Manufacturer:
  - a. Ives
2. Acceptable Manufacturers: SUBSTITUTES BY ARCHITECT APPROVAL

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**B. Requirements:**

1. Provide ball catches at single doors with strike to fit ANSI frame prep. If dummy levers are used in conjunction with ball catch, mount ball catch at a height as to not interfere with proper mounting and height of dummy lever.
2. Provide ball catches with full lip strike at pair doors. Mount rolling ball in top rail of each leaf per manufacturer's template.

**2.26 DOOR POSITION SWITCHES****A. Manufacturers:**

1. Scheduled Manufacturer:
  - a. Schlage
2. Acceptable Manufacturers: SUBSTITUTES BY ARCHITECT APPROVAL

**B. Requirements:**

1. Provide recessed or surface mounted type door position switches as specified.
2. Coordinate door and frame preparations with door and frame suppliers. If switches are being used with magnetic locking device, provide minimum of 4 inches (102 mm) between switch and magnetic locking device.

**2.27 COAT HOOKS****A. Manufacturers:**

1. Scheduled Manufacturer:
  - a. Ives
2. Acceptable Manufacturers: SUBSTITUTES BY ARCHITECT APPROVAL

**B. Provide coat hooks as specified.****2.28 FINISHES****A. FINISH: BHMA 626/652 (US26D); EXCEPT:**

1. Hinges at Exterior Doors: BHMA 630 (US32D)
2. Aluminum Geared Continuous Hinges: BHMA 628 (US28)
3. Push Plates, Pulls, and Push Bars: BHMA 630 (US32D)
4. Protection Plates: BHMA 630 (US32D)
5. Overhead Stops and Holders: BHMA 630 (US32D)
6. Door Closers: Powder Coat to Match
7. Wall Stops: BHMA 630 (US32D)
8. Latch Protectors: BHMA 630 (US32D)
9. Weatherstripping: Clear Anodized Aluminum
10. Thresholds: Mill Finish Aluminum

**PART 3 - EXECUTION**

**BHA COTTONWOOD**

1394, 1374, 1355 Cottonwood  
Broomfield, CO 80020  
Caddis No. 2304

**GMP SET**

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**3.01 EXAMINATION**

- A. Prior to installation of hardware, examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance. Verify doors, frames, and walls have been properly reinforced for hardware installation.
- B. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
- C. Submit a list of deficiencies in writing and proceed with installation only after unsatisfactory conditions have been corrected.

**3.02 INSTALLATION**

- A. Mount door hardware units at heights to comply with the following, unless otherwise indicated or required to comply with governing regulations.
  - 1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
  - 2. Custom Steel Doors and Frames: HMMA 831.
  - 3. Interior Architectural Wood Flush Doors: ANSI/WDMA I.S. 1A
  - 4. Installation Guide for Doors and Hardware: DHI TDH-007-20
- B. Install door hardware in accordance with NFPA 80, NFPA 101 and provide post-install inspection, testing as specified in section 1.03.E unless otherwise required to comply with governing regulations.
- C. Install each hardware item in compliance with manufacturer's instructions and recommendations, using only fasteners provided by manufacturer.
- D. Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.
- E. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.
- F. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- G. Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.
- H. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated.
- I. Lock Cylinders:
  - 1. Install construction cores to secure building and areas during construction period.
  - 2. Replace construction cores with permanent cores as indicated in keying section.
  - 3. Furnish permanent cores to Owner for installation.
- J. Wiring: Coordinate with Division 26, ELECTRICAL and Division 28 ELECTRONIC SAFETY AND SECURITY sections for:

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1. Conduit, junction boxes and wire pulls.
  2. Connections to and from power supplies to electrified hardware.
  3. Connections to fire/smoke alarm system and smoke evacuation system.
  4. Connection of wire to door position switches and wire runs to central room or area, as directed by Architect.
  5. Connections to panel interface modules, controllers, and gateways.
  6. Testing and labeling wires with Architect's opening number.
- K. Key Control System: Tag keys and place them on markers and hooks in key control system cabinet, as determined by final keying schedule.
- L. Continuous Hinges: Re-locate the door and frame fire rating labels where they will remain visible so that the hinge does not cover the label once installed.
- M. Door Closers & Auto Operators: Mount closers/operators on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Mount closers/operators so they are not visible in corridors, lobbies and other public spaces unless approved by Architect.
- N. Overhead Stops/Holders: Mount overhead stops/holders on room side of corridor doors, inside of exterior doors, and stair side of stairway doors.
- O. Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings or in equipment room, or alternate location as directed by Architect.
- P. Thresholds: Set thresholds in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."
- Q. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they may impede traffic or present tripping hazard.
- R. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
- S. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
- T. Door Bottoms and Sweeps: Apply to bottom of door, forming seal with threshold when door is closed.

**3.03 ADJUSTING**

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
1. Spring Hinges: Adjust to achieve positive latching when door can close freely from an open position of 30 degrees.
  2. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.
  3. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.

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- B. Occupancy Adjustment: Approximately three to six months after date of Substantial Completion, examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors and door hardware.

**3.04 CLEANING AND PROTECTION**

- A. Clean adjacent surfaces soiled by door hardware installation.
- B. Clean operating items per manufacturer's instructions to restore proper function and finish.
- C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

**3.05 DOOR HARDWARE SCHEDULE**

- A. The intent of the hardware specification is to specify the hardware for interior and exterior doors, and to establish a type, continuity, and standard of quality. However, it is the door hardware supplier's responsibility to thoroughly review existing conditions, schedules, specifications, drawings, and other Contract Documents to verify the suitability of the hardware specified.
- B. Discrepancies, conflicting hardware, and missing items are to be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application.
- C. Hardware items are referenced in the following hardware schedule. Refer to the above specifications for special features, options, cylinders/keying, and other requirements.
- D. Hardware Sets:

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 120176 OPT0389679 Version 2

**GMP SET**

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**Legend:**













-  Link to catalog cut sheet  
 Electrified Opening

**Hardware Group No. 01**

For use on Door #(s):

A1E                      A1F                      B1G                      B111                      C103                      C303  
 C328

Provide each SGL door(s) with the following:







QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP		630	IVE
1	EA	STOREROOM LOCK	T581 LAT (KEYWAY AND LEVER PREP AS REQUIRED)		626	FAL
1	EA	PERMANENT CORE	AS REQUIRED		626	SCH
1	EA	LOCK GUARD	LG12		630	IVE
1	EA	SURFACE CLOSER	SC71A SS		689	FAL
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	RAIN DRIP	142AA		AA	ZER
1	EA	SET GASKETING	488SBK		BK	ZER
1	EA	DOOR SWEEP	39A		A	ZER
1	EA	THRESHOLD	VERIFY SILL CONDITION		A	ZER
1	EA	DOOR CONTACT	7764 / 679-05 AS REQUIRED	 	628	SCE

**Hardware Group No. 02**

For use on Door #(s):

C122                      C123

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5		652	IVE
1	EA	OFFICE W/SIM RETRACT W/ OUTSIDE INDICATOR	L9056BDC LATA L583-363 OS- OCC		626	SCH
1	EA	PERMANENT CORE	AS REQUIRED		626	SCH
1	EA	WALL STOP	WS406/407CCV		630	IVE
1	EA	COAT AND HAT HOOK	582		626	IVE
3	EA	SILENCER	SR64		GRY	IVE

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1394,1374,1355 Cottonwood  
Broomfield, CO 80020  
Caddis No. 2304  
Hardware Group No. 03






**GMP SET**

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For use on Door #(s):

C112            C113            C118            C121            C124            C205  
C207

Provide each SGL door(s) with the following:






QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP		652	IVE
1	EA	STOREROOM LOCK	W581 LAT (KEYWAY AND LEVER PREP AS REQUIRED)		626	FAL
1	EA	PERMANENT CORE	AS REQUIRED		626	SCH
1	EA	OH STOP	450S		689	GLY
3	EA	SILENCER	SR64		GRY	IVE

Hardware Group No. 04

For use on Door #(s):

C111            C116            C206

Provide each SGL door(s) with the following:






QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5		652	IVE
1	EA	ENTRY / OFFICE LOCK	W511 LAT (KEYWAY AND LEVER PREP AS REQUIRED)		626	FAL
1	EA	PERMANENT CORE	AS REQUIRED		626	SCH
1	EA	WALL STOP	WS406/407CCV		630	IVE
3	EA	SILENCER	SR64		GRY	IVE

Hardware Group No. 05

For use on Door #(s):

C117            C208

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP		652	IVE
1	EA	STOREROOM LOCK	W581 LAT (KEYWAY AND LEVER PREP AS REQUIRED)		626	FAL
1	EA	PERMANENT CORE	AS REQUIRED		626	SCH
1	EA	WALL STOP	WS406/407CCV		630	IVE
3	EA	SILENCER	SR64		GRY	IVE

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Caddis No. 2304  
Hardware Group No. 06

**GMP SET**

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For use on Door #(s):  
C105











Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
4	EA	HINGE	5BB1 4.5 X 4.5		652	IVE
1	EA	STOREROOM LOCK	T581 LAT (KEYWAY AND LEVER PREP AS REQUIRED)		626	FAL
1	EA	PERMANENT CORE	AS REQUIRED		626	SCH
1	EA	SURFACE CLOSER	SC71A REG OR PA AS REQ		689	FAL
1	EA	WALL STOP	WS406/407CCV		630	IVE
1	EA	RAIN DRIP	142AA		AA	ZER
1	EA	SET GASKETING	488SBK		BK	ZER
1	EA	DOOR SWEEP	111AA		AA	ZER
1	EA	THRESHOLD	VERIFY SILL CONDITION		A	ZER
1	EA	DOOR CONTACT	7764 / 679-05 AS REQUIRED	 ✎	628	SCE

Hardware Group No. 07

For use on Door #(s):  
C115

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP		652	IVE
1	EA	STOREROOM LOCK	W581 LAT (KEYWAY AND LEVER PREP AS REQUIRED)		626	FAL
1	EA	PERMANENT CORE	AS REQUIRED		626	SCH
1	EA	ELECTRIC STRIKE	6211 FSE CON (VOLTAGE AS REQUIRED)	 ✎	630	VON
1	EA	SURFACE CLOSER	SC71A HDP A		689	FAL
1	EA	WALL STOP	WS406/407CCV		630	IVE
3	EA	SILENCER	SR64		GRY	IVE
1	EA	WIRE HARNESS	CON-XX AS REQUIRED	✎		SCH
1	EA	CARD READER	BY SECURITY CONTRACTOR	 ✎	BLK	SCE
1	EA	DOOR CONTACT	7764 / 679-05 AS REQUIRED	 ✎	628	SCE
1	EA	POWER / LOW VOLTAGE POWER	BY SECURITY CONTRACTOR	 ✎		VON

DOOR IS NORMALLY LOCKED. RESTRICTING ENTRY.  
AUTHORIZED CREDENTIAL AT OUTSIDE CARD READER MOMENTARILY RELEASES ELECTRIC  
STRIKE TO ALLOW ENTRY OR BY KEY.  
INSIDE LEVER ALWAYS ALLOWS EGRESS.



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Hardware Group No. 08

**GMP SET**

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For use on Door #(s):

C106
















C107

C201

C301

C302

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP		630	IVE
1	EA	PANIC HARDWARE	25-R-NL		626	FAL
1	EA	RIM / MORTISE CYL	AS REQUIRED		626	SCH
1	EA	PERMANENT CORE	AS REQUIRED		626	SCH
1	EA	ELECTRIC STRIKE	6300 FSE 12/24 VAC/VDC	 ⚡	630	VON
1	EA	SURFACE CLOSER	SC71A HDPA		689	FAL
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	FLOOR STOP	FS18S		BLK	IVE
1	EA	RAIN DRIP	142AA		AA	ZER
1	EA	SET GASKETING	488SBK		BK	ZER
1	EA	DOOR SWEEP	39A		A	ZER
1	EA	THRESHOLD	VERIFY SILL CONDITION		A	ZER
1	EA	WIRE HARNESS	CON-XX AS REQUIRED	⚡		SCH
1	EA	CARD READER	BY SECURITY CONTRACTOR	 ⚡	BLK	SCE
1	EA	DOOR CONTACT	7764 / 679-05 AS REQUIRED	 ⚡	628	SCE
1	EA	POWER / LOW VOLTAGE POWER	BY SECURITY CONTRACTOR	 ⚡		VON

DOOR IS NORMALLY LOCKED. RESTRICTING ENTRY.

AUTHORIZED CREDENTIAL AT OUTSIDE CARD READER MOMENTARILY RELEASES ELECTRIC STRIKE TO ALLOW ENTRY OR BY KEY.

INSIDE TOUCHBAR ALWAYS ALLOWS EGRESS.

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 Hardware Group No. 09












**GMP SET**

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For use on Door #(s):

C203 C204

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5		652	IVE
1	EA	STOREROOM LOCK	W581 LAT (KEYWAY AND LEVER PREP AS REQUIRED)		626	FAL
1	EA	PERMANENT CORE	AS REQUIRED		626	SCH
1	EA	ELECTRIC STRIKE	6211 FSE CON (VOLTAGE AS REQUIRED)	 ⚡	630	VON
1	EA	SURFACE CLOSER	SC71A REG OR PA AS REQ		689	FAL
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS406/407CCV		630	IVE
3	EA	SILENCER	SR64		GRY	IVE
1	EA	WIRE HARNESS	CON-XX AS REQUIRED	⚡		SCH
1	EA	CARD READER	BY SECURITY CONTRACTOR	 ⚡	BLK	SCE
1	EA	DOOR CONTACT	7764 / 679-05 AS REQUIRED	 ⚡	628	SCE
1	EA	POWER / LOW VOLTAGE POWER	BY SECURITY CONTRACTOR	 ⚡		VON






DOOR IS NORMALLY LOCKED. RESTRICTING ENTRY.  
 AUTHORIZED CREDENTIAL AT OUTSIDE CARD READER MOMENTARILY RELEASES ELECTRIC  
 STRIKE TO ALLOW ENTRY OR BY KEY.  
 INSIDE LEVER ALWAYS ALLOWS EGRESS.

Hardware Group No. 10

For use on Door #(s):

C202

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5		652	IVE
1	EA	PASSAGE SET	W101S LAT		626	FAL
1	EA	SURFACE CLOSER	SC71A SS		689	FAL
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
3	EA	SILENCER	SR64		GRY	IVE

**BHA COTTONWOOD**













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Broomfield, CO 80020  
Caddis No. 2304  
Hardware Group No. 11

**GMP SET**

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For use on Door #(s):  
C102

Provide each SGL door(s) with the following:













QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP		652	IVE
1	EA	PANIC HARDWARE	25-R-NL		626	FAL
1	EA	RIM / MORTISE CYL	AS REQUIRED		626	SCH
1	EA	PERMANENT CORE	AS REQUIRED		626	SCH
1	EA	ELECTRIC STRIKE	6300 FSE 12/24 VAC/VDC	 ⚡	630	VON
1	EA	SURFACE CLOSER	SC71A HDP		689	FAL
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS406/407CCV		630	IVE
1	EA	SET GASKETING	488SBK		BK	ZER
1	EA	WIRE HARNESS	CON-XX AS REQUIRED	⚡		SCH
1	EA	CARD READER	BY SECURITY CONTRACTOR	 ⚡	BLK	SCE
1	EA	DOOR CONTACT	7764 / 679-05 AS REQUIRED	 ⚡	628	SCE
1	EA	POWER / LOW VOLTAGE POWER	BY SECURITY CONTRACTOR	 ⚡		VON

DOOR IS NORMALLY LOCKED. RESTRICTING ENTRY.  
AUTHORIZED CREDENTIAL AT OUTSIDE CARD READER MOMENTARILY RELEASES ELECTRIC  
STRIKE TO ALLOW ENTRY OR BY KEY.  
INSIDE TOUCHBAR ALWAYS ALLOWS EGRESS.

Hardware Group No. 12

For use on Door #(s):  
C101

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP		630	IVE
1	EA	PANIC HARDWARE	25-R-NL		626	FAL
1	EA	RIM / MORTISE CYL	AS REQUIRED		626	SCH
1	EA	PERMANENT CORE	AS REQUIRED		626	SCH
1	EA	SURFACE CLOSER	SC71A HDP		689	FAL
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	FLOOR STOP	FS18S		BLK	IVE
1	EA	RAIN DRIP	142AA		AA	ZER
1	EA	SET GASKETING	488SBK		BK	ZER
1	EA	DOOR SWEEP	39A		A	ZER
1	EA	THRESHOLD	VERIFY SILL CONDITION		A	ZER
1	EA	DOOR CONTACT	7764 / 679-05 AS REQUIRED	 ⚡	628	SCE

**BHA COTTONWOOD**

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Hardware Group No. 13

**GMP SET**

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For use on Door #(s):

B1F















B110

C108

C109

C125

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
6	EA	HINGE	5BB1HW 4.5 X 4.5 NRP		630	IVE
1	EA	CONST LATCHING BOLT	FB51P		630	IVE
1	EA	DUST PROOF STRIKE	DP1/DP2 AS REQUIRED		626	IVE
1	EA	STOREROOM LOCK	T581 LAT (KEYWAY AND LEVER PREP AS REQUIRED)		626	FAL
1	EA	PERMANENT CORE	AS REQUIRED		626	SCH
1	EA	COORDINATOR	COR X FL		US28	IVE
2	EA	SURFACE CLOSER	SC71A SS		689	FAL
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS		630	IVE
1	EA	RAIN DRIP	142AA		AA	ZER
1	EA	SET GASKETING	488SBK		BK	ZER
2	EA	DOOR SWEEP	39A		A	ZER
1	EA	ASTRAGAL	43STST		STST	ZER
1	EA	THRESHOLD	VERIFY SILL CONDITION		A	ZER
2	EA	DOOR CONTACT	7764 / 679-05 AS REQUIRED	 ✎	628	SCE

Hardware Group No. 14

For use on Door #(s):

C120

Provide each SL door(s) with the following:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1		HARDWARE BY MANUFACTURER		

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 Hardware Group No. GA01













**GMP SET**

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For use on Door #(s):

C151 C160

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP		630	IVE
1	EA	PANIC HARDWARE	25-R-NL		626	FAL
1	EA	RIM / MORTISE CYL	AS REQUIRED		626	SCH
1	EA	PERMANENT CORE	AS REQUIRED		626	SCH
1	EA	ELECTRIC STRIKE	6300 FSE 12/24 VAC/VDC	 ⚡	630	VON
1	EA	SURFACE CLOSER	SC71A HDPA		689	FAL
1	EA	FLOOR STOP	FS18S		BLK	IVE
1	SET	SEALS	BY DOOR / FRAME MANUFACTURER			
1	EA	DOOR SWEEP	39A		A	ZER
1	EA	THRESHOLD	VERIFY SILL CONDITION		A	ZER
1	EA	WIRE HARNESS	CON-XX AS REQUIRED		⚡	SCH
1	EA	CARD READER	BY SECURITY CONTRACTOR	 ⚡	BLK	SCE
1	EA	DOOR CONTACT	7764 / 679-05 AS REQUIRED	 ⚡	628	SCE
1	EA	POWER / LOW VOLTAGE POWER	BY SECURITY CONTRACTOR	 ⚡		VON
1	EA	WELDABLE GATE BOX	K-BXED			KEE

DOOR IS NORMALLY LOCKED. RESTRICTING ENTRY.

AUTHORIZED CREDENTIAL AT OUTSIDE CARD READER MOMENTARILY RELEASES ELECTRIC  
 STRIKE TO ALLOW ENTRY OR BY KEY.

INSIDE TOUCHBAR ALWAYS ALLOWS EGRESS.

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1394,1374,1355 Cottonwood  
 Broomfield, CO 80020  
 Caddis No. 2304  
 Hardware Group No. GA02

**GMP SET**

Feb 4, 2025

For use on Door #(s):  
 C157

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1HW 5 X 4.5 NRP		630	IVE
1	EA	STOREROOM LOCK	T581 LAT (KEYWAY AND LEVER PREP AS REQUIRED)		626	FAL
1	EA	PERMANENT CORE	AS REQUIRED		626	SCH
1	EA	ELECTRIC STRIKE	6211 FSE CON (VOLTAGE AS REQUIRED)		⚡ 630	VON
1	EA	SURFACE CLOSER	SC71A REG OR PA AS REQ		689	FAL
1	EA	FLOOR STOP	FS18S		BLK	IVE
1	SET	SEALS	BY DOOR / FRAME MANUFACTURER			
1	EA	DOOR SWEEP	111AA		AA	ZER
1	EA	THRESHOLD	VERIFY SILL CONDITION		A	ZER
1	EA	WIRE HARNESS	CON-XX AS REQUIRED		⚡	SCH
1	EA	CARD READER	BY SECURITY CONTRACTOR		⚡ BLK	SCE
1	EA	DOOR CONTACT	7764 / 679-05 AS REQUIRED		⚡ 628	SCE
1	EA	POWER / LOW VOLTAGE POWER	BY SECURITY CONTRACTOR		⚡	VON
1	EA	WELDABLE GATE BOX	K-BXRHO			KEE

DOOR IS NORMALLY LOCKED. RESTRICTING ENTRY.  
 AUTHORIZED CREDENTIAL AT OUTSIDE CARD READER MOMENTARILY RELEASES ELECTRIC  
 STRIKE TO ALLOW ENTRY OR BY KEY.  
 INSIDE LEVER ALWAYS ALLOWS EGRESS.

**BHA COTTONWOOD**

1394,1374,1355 Cottonwood  
Broomfield, CO 80020  
Caddis No. 2304  
Hardware Group No. GA03

**GMP SET**

Feb 4, 2025

For use on Door #(s):  
C155

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	SURECLOSE GATE HINGE	75057114 (AS REQUIRED)			DDT
1	EA	PANIC HARDWARE	LD-98-NL-WH		630	VON
1	EA	RIM / MORTISE CYL	AS REQUIRED		626	SCH
1	EA	PERMANENT CORE	AS REQUIRED		626	SCH
1	EA	ELECTRIC STRIKE	EN400RP-32D		630	TRN
1	SET	SEALS	BY DOOR / FRAME MANUFACTURER			
1	EA	WIRE HARNESS	CON-XX AS REQUIRED			SCH
1	EA	CARD READER	BY SECURITY CONTRACTOR		BLK	SCE
1	EA	DOOR CONTACT	7764 / 679-05 AS REQUIRED		628	SCE
1	EA	POWER / LOW VOLTAGE POWER	BY SECURITY CONTRACTOR			VON
1	EA	GATEBOX-ELECTRIC STRIKE	EN400-GATEBOX			TRN
1	EA	ANGLE STOP WELDED	AT TOP OF GATE FOR 90 DEGREE STOP			
1	EA	WELDABLE GATE BOX	K-BXED			KEE

Hardware Group No. U01

For use on Door #(s):

A1A	A1B	A1C	A2D	A2E	B1A
B1B	B1C	B1D	B1E	C1A	C1B
C1C	C1D	C1E	C1F	C1G	C1H
C1I	C1J	C2A	C2B	C2C	C2D
C2E	C2F	C2G	C2H	C2I	C2J
C3A	C3B	C3C	C3D	C3E	C3F
C3G	C3H	C3I	C3J		

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5		652	IVE
1	EA	DEADBOLT	BE467F GRW 6 VDC		626	SCH
1	EA	PASSAGE SET	F10 LAT		626	SCH
1	EA	SURFACE CLOSER	SC61A REG OR PA AS REQ		689	FAL
1	EA	DOOR STOP	60 OR 70 (AS REQUIRED)		626	IVE
1	EA	SET GASKETING	488SBK		BK	ZER
1	EA	DOOR SWEEP	111AA		AA	ZER
1	EA	THRESHOLD	VERIFY SILL CONDITION		A	ZER
1	EA	DOOR CONTACT	7764 / 679-05 AS REQUIRED		628	SCE

**BHA COTTONWOOD**

1394,1374,1355 Cottonwood  
 Broomfield, CO 80020  
 Caddis No. 2304  
 Hardware Group No. U02





**GMP SET**

Feb 4, 2025

For use on Door #(s):

ID.01                      ID.09                      ID.10

Provide each SGL door(s) with the following:





QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	1021 4 X 4		652	IVE
1	EA	PRIVACY LOCK	F40 LAT		626	SCH
1	EA	DOOR STOP	60 OR 70 (AS REQUIRED)		626	IVE
3	EA	SILENCER	SR65		GRY	IVE

Hardware Group No. U03

For use on Door #(s):

ID.02                      ID.03                      ID.06                      ID.08

Provide each SGL door(s) with the following:






QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	1021 4 X 4		652	IVE
1	EA	PASSAGE SET	F10 LAT		626	SCH
1	EA	DOOR STOP	60 OR 70 (AS REQUIRED)		626	IVE
3	EA	SILENCER	SR65		GRY	IVE

Hardware Group No. U04

For use on Door #(s):

ID.04                      ID.05                      ID.11

Provide each PR door(s) with the following:


QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
6	EA	HINGE	1021 4 X 4		652	IVE
2	EA	BALL CATCH	349		626	IVE
2	EA	SINGLE DUMMY TRIM	F170 LAT		626	SCH
2	EA	DOOR STOP	60 OR 70 (AS REQUIRED)		626	IVE
2	EA	SILENCER	SR65		GRY	IVE

Hardware Group No. U05

For use on Door #(s):

ID.07

Provide each PD door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	POCKET DOOR HARDWARE	BY MANUFACTURER			JOH
1	EA	SLIDING DOOR PULL	991		626	IVE

END OF SECTION