ADDENDUM #2

1.1 PROJECT INFORMATION

A. Project Number: 2023-276 G (1-1)

B. Project Title: Moses Lake Readiness Center Tenant Improvements

C. Project Location: 6500 32nd Avenue NE, Moses Lake, WA 98837

D. Agency: Washington Military Department

1.2 NOTICE TO BIDDERS

- A. The following clarifications, changes, additions, and/or deletions are considered Addendum No. 2, and are hereby made a part of the contract documents. All bidders are required to base their bid upon the information furnished in this addendum and as required in the contract documents. The Contractor is required to acknowledge Addendum No. 2 in their company proposal. Failure to acknowledge Addendum No. 2 on the bid form will result in the bid proposal being declared non-responsive.
- B. The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.

1.3 ATTACHMENTS

- B. Drawing Sheet A-502, Schedules Doors, Windows and FramesRe-issued July 25, 2024 (1 page, 30x42)

1.4 BIDDER QUESTIONS

A. Question 1: Hollow metal frames for windows in recruiting office rm. 116 and sidelites to family services office rm 138. Is the bottom leg (at floor) 2-inches high or 4-inches high?

Response 1: The intent is for the bottom leg on both hollow metal frames to be 4-inches high.

Sheet A-502, Schedules - Door, Windows and Frames has been re-issued as part of this addendum.

1.5 REVISIONS TO SPECIFICATIONS

A. Section – Table of Contents, Vol. 1

DELETE

B. Section 074113.16 – Standing-Seam Metal Roof Panels, Paragraph 2.2.B, comparable products ADD

d. The Bryer Company, TBC Superseam

[Clarification: Added to list of pre-approved manufacturer products]

C. Section 084113 – Aluminum-Framed Storefronts, Paragraph 2.2.A, Storefront Framing ADD

d. Oldcastle Building Envelope; Series 3000XT (double thermal) [Clarification: Added to list of pre-approved manufacturer products]

D. Section 087100 - Door Hardware

ADD this section in it's entirety, dated July 24, 2024, attached

E. Section 087113 – Automatic Door Operators
DELETE this section in it's entirety

F. Section 238126 – Ductless Split-System Air Conditioners, Paragraph 2.01.A, Manufacturers ADD

5. LG Electronics USA, Inc

[Clarification: Added to list of pre-approved manufacturers]

- G. Section 260921 Luminaire Control System, Paragraph 2.3.B, Luminaire Control System Equal Manufacturers ADD
 - 8. Greengate

[Clarification: Added to list of pre-approved manufacturer products]

H. Section 265100 – Interior Lighting, Paragraph 2.4.B, Acceptable Manufacturers ADD

2. Cooper Lighting Solutions

[Clarification: Added to list of pre-approved manufacturers]

1.6 REVISIONS TO DRAWINGS

A. Sheet M-002, Mechanical Schedules

ADD

General Note:

- 1. Existing HVAC controls at the Moses Lake Readiness are Delta Control System
- B. Sheet E-301, Reflected Ceiling Plan

ADD:

General Lighting Note:

- 1. For additional electrical detail, refer to sheet E-701.
- 2. Contractor is responsible for providing a complete and functional lighting control system.
- 4. Approved lighting control product substitutions include, but are not limited to:

Type	MFG	Part
CAT Dimming Switchpack	Greengate	RSP-C-010-Z1
CAT Emergency Dimming Switchpack		ESP-C-010-Z1
CAT Bluetooth Programming Interface	Greengate	BPI-C-L
ONW-P-Neoswitch	Greengate	ONW-P-1001-MV-W
OSW/VSW-D 0-10V Sensor-Dimmer	Greengate	OSW-D-010-W
CAT Wallstation (WST-C Series)	Greengate	WST-C-3-ENGRV
CAT Wallstation (WST-C Series)	Greengate	WST-C-3D-ENGRV
CAT Wallstation (WST-C Series)	Greengate	WST-C-5D-ENGRV
CAT Contact Closure Input Module	•	CCI-C-V
CAT Sensor Interface Module	Greengate	SIM-C-V
Ceiling Mount Occupancy Sensor	Greengate	OSC-DT-1000
CAT Terminator Plug	Greengate	ACC-C-TP-6PK
Wavelinx Area controller 2nd Gen	Greengate	WAC2-120

C. Sheet E-301, Reflected Ceiling Plan – Lighting, Interior Luminaire Schedule ADD:

Approved product substitutions

Туре	MFG	Part
H01	Solas Ray	HBRL2-040-40-U-XX
P01	Metalux	4SLSTPSLC-UNV
P02	Metalux	8SLSTPSLC-UNV
P03	Metalux	OHB-18SE-MFL-UNV-L840-CD-XX-U
P04	Metalux	OHB-18SE-W-UNV-L840-CD-XX-U
P05	Metalux	4SLSTPSLC-UNV
P06	Metalux	4SLSTPSLC-UNV
R01	Metalux	22CZ2-XX-S-UNV-L840-HCD-1-U
R02	Metalux	24CZ2-XX-S-UNV-L840-HCD-1-U
R03	Metalux	14CZ2-20-S-UNV-L840-HCD-1-U
R04	Metalux	14CZ2-29-S-UNV-L840-HCD-1-U
R05	Truly Green Solutions	TWSF-0615-C-S-WH
R06	Portfolio	LDSSQ6C059040D010B26
		CSSQ2MWWLN
R07	Metalux	22CZ2-XX-S-UNV-L840-HCD-1-U
S01	Metalux	4AWS-L3C3-UNV
S02	Metalux	14CZ2-60HE-S-UNV-L840-HCD-1-U
S03	Metalux	4SLSTPSLC-UNV
S04	Metalux	14CZ2-29-S-UNV-L840-HCD-1-U
U01	Halo	HU30MSCTD18P
W01	Oxygen Lighting	3-544-24
X01	Sure-Lites	EUS62G
X02	Sure-Lites	EUR62G

- D. Sheet E-301, Reflected Ceiling Plan Lighting, Interior Luminaire Schedule, General Notes: ADD:
 - 2. Contractor shall submit photometrics and calculations confirming compliance with WA State Energy Code (WSEC) and National Electrical Code (NFPA 72, NEC) if product substitutions are provided. Contractor shall also be responsible for any and all additional costs associated with using product substitutions.
- E. Sheet E-302, Reflected Ceiling Plan Photometrics, Luminaire Schedule, ADD:

General Note:

1. Contractor shall submit photometrics and calculations confirming compliance with WA State Energy Code (WSEC) and National Electrical Code (NFPA 72, NEC) if product substitutions are provided.

END OF ADDENDUM #2

Door Hardware

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:

- 1. Mechanical door hardware for the following:
 - a. Swinging doors.
- 2. Cylinders for door hardware specified in other Sections.
- 3. Electrified door hardware.

B. Related Requirements:

- 1. Section 081113 "Hollow Metal Doors and Frames" for hollow metal doors and frames.
- 2. Section 081416 "Flush Wood Doors"
- 3. Section 083613 "Sectional Doors"
- 4. Section 087113 "Automatic Door Operators"

1.3 COORDINATION

- A. Installation Templates: Distribute for doors, frames, and other work specified to be factory 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.
- B. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.
- C. Door Hardware and Electrical Connections: Coordinate the layout and installation of scheduled electrified door hardware and related access control equipment with required connections to source power junction boxes, low voltage power supplies, detection and monitoring hardware, and fire and detection alarm systems.
- D. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.
- E. Existing Openings: Where hardware components are scheduled for application to existing construction or where modifications to existing door hardware are required, field verify existing conditions and coordinate installation of door hardware to suit opening conditions and to provide proper door operation.

1.4 PREINSTALLATION MEETINGS

- A. Keying Conference: Conduct conference at Project site.
 - 1. Conference participants shall include:
 - a. Owner's project manager and building locksmith

Door Hardware

- 2. Incorporate the following criteria into the final keying schedule document:
 - a. Function of building, purpose of each area and degree of security required.
 - b. Plans for existing and future key system expansion.
 - c. Requirements for key control storage and software.
 - d. Installation of permanent keys, cylinder cores and software.
 - e. Requirements for access control
 - f. Address and requirements for delivery of keys.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Door Hardware Schedule: Prepared by or under the supervision of Installer's Architectural Hardware Consultant. Coordinate door hardware schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 - Submittal Sequence: Submit door hardware schedule concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate the fabrication of other work that is critical in Project construction schedule.
 - 2. Format: Use same scheduling sequence and format and use same door numbers as in door hardware schedule in the Contract Documents.
 - 3. Content: Include the following information:
 - a. Identification number, location, hand, fire rating, size, and material of each door and frame.
 - Locations of each door hardware set, cross-referenced to Drawings on floor plans and to door and frame schedule.
 - c. Complete designations, including name and manufacturer, type, style, function, size, quantity, function, and finish of each door hardware product.
 - d. Description of electrified door hardware sequences of operation and interfaces with other building control systems.
 - e. Fastenings and other installation information.
 - f. Explanation of abbreviations, symbols, and designations contained in door hardware schedule.
 - g. Mounting locations for door hardware.
 - h. List of related door devices specified in other Sections for each door and frame.
- C. Keying Schedule: Prepared by or under the supervision of Installer's Architectural Hardware Consultant, detailing Owner's final keying instructions for locks. Include schematic keying diagram and index each key set to unique door designations that are coordinated with the Contract Documents.

1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Sample Warranty: For special warranty.

1.7 CLOSEOUT SUBMITTALS

A. Maintenance Data: For each type of door hardware to include in maintenance manuals.

Door Hardware

1.8 QUALITY ASSURANCE

A. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
- B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.10 WARRANTY

- A. Special Warranty: 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 doors and door hardware.
 - Deterioration of metals, metal finishes, and other materials beyond normal weathering and use.
 - 2. Warranty Period: [Two] years from date of Substantial Completion unless otherwise indicated below:
 - a. Exit Devices: [5] years from date of Substantial Completion.
 - b. Manual Closers: [25] years from date of Substantial Completion.
 - c. Ten years for mortise locks and latches.
 - d. Five years for motorized electric latch retraction exit devices.
 - e. Two years for electromechanical door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

- A. Provide door hardware for each door as scheduled in Part 3 "Door Hardware Schedule" Article to comply with requirements in this Section.
 - 1. Door Hardware Sets: Provide quantity, item, size, finish or color indicated, and products complying with BHMA designations referenced.
- B. Sequence of Operation: Provide electrified door hardware function, sequence of operation, and interface with other building control systems indicated.

2.2 MANUFACTURERS

- A. Source Limitations: Obtain each type of door hardware from single manufacturer.
 - 1. Provide electrified door hardware from same manufacturer as mechanical door hardware unless otherwise indicated. Manufacturers that perform electrical modifications and that are listed by a testing and inspecting agency acceptable to authorities having jurisdiction are acceptable.

Door Hardware

2.3 PERFORMANCE REQUIREMENTS

- A. Fire-Rated Door Assemblies: Where fire-rated doors are indicated, provide door hardware complying with NFPA 80 that is listed and labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at positive pressure according to NFPA 252 or UL 10C.
- B. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door assemblies are required, provide door hardware that complies with requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.
- C. Electrified Door Hardware: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- D. Means of Egress Doors: Latches do not require more than 15 lbf to release the latch. Locks do not require use of a key, tool, or special knowledge for operation.
- E. Accessibility Requirements: For door hardware on doors in an accessible route, comply with the USDOJ's "2010 ADA Standards for Accessible Design" ICC A117.1 and HUD's "Fair Housing Accessibility Guidelines".
 - Provide operating devices that do not require tight grasping, pinching, or twisting of the wrist and that operate with a force of not more than 5 lbf.
 - 2. Comply with the following maximum opening-force requirements:
 - a. Interior, Non-Fire-Rated Hinged Doors: 5 lbf applied perpendicular to door.
 - b. Sliding or Folding Doors: 5 lbf applied parallel to door at latch.
 - c. Fire Doors: Minimum opening force allowable by authorities having jurisdiction.
 - 3. Bevel raised thresholds with a slope of not more than 1:2. Provide thresholds not more than 1/2 inch high.
 - 4. Adjust door closer sweep periods so that, from an open position of 90 degrees, the door will take at least 5 seconds to move to a position of 12 degrees from the latch.
 - 5. Adjust spring hinges so that, from an open position of 70 degrees, the door will take at least 1.5 seconds to move to the closed position.
- F. Hanging Devices ANSI/BHMA A156.1 certified butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.
 - 1. Quantity: Provide the following hinge quantity:
 - a. Two Hinges: For doors with heights up to 60 inches.
 - b. Three Hinges: For doors with heights 61 to 90 inches.
 - c. Four Hinges: For doors with heights 91 to 120 inches.
 - d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.
 - 2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
 - a. Widths up to 3'0": 4-1/2" standard or heavy weight as specified.
 - b. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified.
 - 3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:
 - a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
 - b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.
 - 4. Hinge Options: Comply with the following:
 - a. Non-removable Pins: Provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the all out-swinging lockable doors.

2.4 HINGES

A. Hinges [ANSI/BHMA A156.1; #A8111]: Provide steel, fully-mortised, anti-friction bearing, heavyduty Grade 1 size: 4-1/2 inch x4-1/2 inch, with non-removable pins (NRP).

4	3.6 .	10 1 01	•	. 1 .	.1 C 11 '
-1	Manufacturer ar	nd Product Subie	ect to requirements	provide one of	the following:

C		0
0	H	0
C	H	0
0	R	0

MK T4A3786

MK TA2714

MK T4A3386

PE FM HD

2.6

b.

Hager Companies;BB1168 NRP

McKinney Products Company; an ASSA ABLOY Group;T4A3786 NRP

c.

В. [ANSI/BHMA A156.1; #A8112]: Provide steel, fully-mortised, anti-friction Hinges medium-duty Grade 2 size: 4-1/2 inch x4-1/2 inch, with non-removable pins (NRP).

Manufacturer and Product: Subject to requirements provide one of the following:



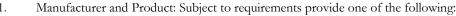
Stanley Commercial Hardware; Div. of The Stanley Works. FBB179 NRP c.

C. Hinges [ANSI/BHMA A156.1; #A5112]: Provide stainless steel, fully-mortised, anti-friction bearing, mediumduty Grade 2 size: 4-1/2 inch x4-1/2 inch, with non-removable pins (NRP).

Manufacturer and Product: Subject to requirements provide one of the following:

- Hager Companies; BB1191 NRP
- McKinney Products Company; an ASSA ABLOY Group;TA2314 NRP b.
- **MK TA2314**

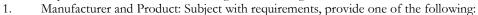
D. Hinges [ANSI/BHMA A156.1; #A5111]: Provide stainless steel, fully-mortised, anti-friction bearing, heavy-duty Grade 1 size: 4-1/2 inch x4-1/2 inch, with non-removable pins (NRP).



- Hager Companies; BB1199 NRP
- McKinney Products Company; an ASSA ABLOY Group;T4A3386 NRP b.
- Stanley Commercial Hardware; Div. of The Stanley Works. FBB199 NRP c.

CONTINUOUS HINGES 2.5

Continuous, Gear-Type Hinges [ANSI/BHMA A156.26, #A31011G]: Continuous, Edge-Mounted Gear-Type A. Hinges, Extruded-aluminum - Grade 1; pinless, geared hinge leaves joined by a continuous extruded-aluminum channel cap; with concealed, self-lubricating thrust bearings.





Pemko Manufacturing Co.; an ASSA ABLOY Group...._FM HD

Lock Cylinders: Tumbler type, constructed from brass or bronze, stainless steel, or nickel silver. Provide cylinder A. from same manufacturer of locking devices

- Standard Lock Cylinders: BHMA A156.5; Grade 1 permanent cores; face finished to match lockset. В.
 - Core Type: Small-Format Interchangeable (SFIC).; 7-pin 1.
 - 2. Key ways:

LOCK CYLINDERS

- BEST (Verify with Owner)
- C. Construction Cores: Provide construction cores that are replaceable by permanent cores. Provide 10 construction master keys.

Door Hardware

2.7 KEYING

- A. Keying System: Factory registered, complying with guidelines in BHMA A156.28, appendix. Provide one extra key blank for each lock. Incorporate decisions made in keying conference.
 - 1. Existing System:
 - a. Master key or grand master key locks to Owner's existing system.
 - b. Re-key Owner's existing master key system into new keying system.
- B. Keys: Nickel silver
 - Stamping: Permanently inscribe each key with a visual key control number and include the following notation:
 - a. Notation: "DO NOT DUPLICATE"

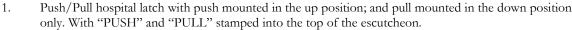
2.8 MECHANICAL LOCKS AND LATCHES

- A. Lock Functions: As indicated in door hardware schedule.
- B. Lock Throw: Comply with testing requirements for length of bolts required for labeled fire doors, and as follows:
 - 1. Bored Locks: Minimum 1/2-inch latchbolt throw.
 - Deadbolts: Minimum 1-inch bolt throw.
- C. Lock Backset: 2-3/4 inches unless otherwise indicated.
- D. Lock Trim:

SA 115

- 1. Description: Heavy-Duty Lock-Lever conforming to accessibility standards
- 2. Levers: Cast.
 - a. Style: Contour angle return

 - 2) <u>Sargent Manufacturing Co, ASSA ABLOY</u>.....L-Lever
- 3. Escutcheons (Roses, 3" convex): Wrought.
- 4. Dummy Trim: Match lever lock trim and escutcheons.
- 5. Operating Device: Lever with escutcheons (roses).
- E. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:
- F. Bored Locks: BHMA A156.2; Grade 1, Series 4000.
 - 1. ANSI #F74 Passage
 - a. <u>Best Access Systems; Div. of Stanley;</u> 9K_
 - 2. ANSI #F76 Privacy
 - a. <u>Best Access Systems; Div. of Stanley;</u> 9K_L
 - 3. ANSI #F84 Classroom
 - a. <u>Best Access Systems; Div. of Stanley;</u> 9K R
 - 4. ANSI #F86 Storeroom
- G. Push-Pull Latches: Bored, BHMA A156.2; Grade 1, Series 4000; with paddle handles that retract latchbolt; capable of being mounted vertically or horizontally.



Backset: 5" standard

Strike: ANSI curbed lip strike #808

Function: Passage

Latchbolt Throw: 1/2-inch

Acceptable Manufacturers: subject to requirements provide the following or appy'd equal:

Door Hardware

2.9 STANDALONE ELECTRONIC KEYLESS ACCESS LOCK

- A. Bored Locks: Subject to compliance provide the following:
 - 1. Alarm Lock, Trilogy PIN/PROX lock model #PDL30 [www.alarmlock.com]
- B. Lock Backset: 2-3/4 inches unless otherwise indicated.
- C. Lathbolt throw: 1/2-inch
- D. Keypad:
 - Weatherproof, all metal, 12-button programmable for multi-level access functions. Proximity antenna housing molded of Lexan.
- E. Audit Trail:
 - 1. Lock's activity log can be extracted using the AL-DTMIII (data transfer module), the AL-PCI2 (PC Interface) and/or can be on-site printed using the AL-IR1 (hand-held infrared printer)
- F. Programming
 - Locking modes, event schedules, group, individual, master, management, passage, emergency service codes. Lockout, remote override capability and allowable entry time (3, 10, or 15 seconds), are programmable through the keypad and other interfaces.
- G. Power
 - 1. Five (5) AA alkaline batteries rated to 60,000 cycles, supplied. Audible low battery alert, visual and audible entry indicators.
- H. Lock Trim:
 - 1. Description: BHMA A156.2; Grade 1, Heavy-Duty Lock-Lever conforming to accessibility standards
 - 2. Levers: Cast.
- I. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:

2.10 AUXILIARY LOCKS

- A. Bored Aux Lock w/ indicator: BHMA A156.36: [Grade 2]; with strike that suits frame.
 - 1. Thumb turn inside operates deadbolt, emergency override key outside. Indicator both sides, (outside: VACANT/OCCUPIED, inside: UNLOCKED/LOCKED, color: GREEN/RED)

2.11 MANUAL FLUSH BOLTS

- A. Manual Flush Bolts: BHMA A156.16; minimum 3/4-inch throw; designed for mortising into door edge.
 - 1. One-inch diameter knob with 8"-surface bolt and fiber gasket to provide slide resistance without marring surface of bolt, solid brass with universal strike.

2.12 EXIT DEVICES AND AUXILIARY ITEMS

- A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:
 - At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
 - 2. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.
 - Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch
 in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware
 Sets.
 - 4. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
 - 5. Energy Efficient Design: Provide lock bodies which have a holding current draw of 15mA maximum, and can operate on either 12 or 24 volts. Locks are to be field configurable for fail safe or fail secure operation.
 - 6. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.
 - a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
 - Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.
 - 7. Rail Sizing: Provide exit device rails factory sized for proper door width application.
 - 8. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.

B. Rim Exit Devices and Auxiliary Items: BHMA A156.3.



- 1. Rim Panic / ANSI #F03 (key retracts latch bolt)
 - a. <u>Von Duprin; an Allegion, plc;</u> #99/996L
- VD 99NL/996NL 2. Rim Panic ANSI #F01/#F08 (interior/exterior function with breakaway trim, lock, classroom lever and cylinder dogging with night-latch trim)
 - a. Von Duprin; an Allegion, plc; #99NL/996NL
 - 3. Rim Panic ANSI #F01/#F08 (interior/exterior function with breakaway trim, lock, classroom lever and cylinder dogging with night-latch trim) and dummy trim
 - a. <u>Von Duprin; an Allegion, plc;</u> #99DT (dummy trim)

2.13 KEY CONTROL SYSTEM

- A. Key Lock Boxes: Designed for storage of **two** keys.
 - Basis-of-Design Product: Subject to compliance with requirements, provide Knox Company, Knox-Box 3200 Series key lock box.
 - a. Capacity: 10 key and access cards
 - b. Mount: recessed. Provide with recessed mounting kit.
 - c. Location: as indicated on drawings

2.14 OPERATING TRIM

A. Dust-proof strike. Dust-proof strike (ANSI/BHMA L04021) brass, spring-loaded plunger for dust-proof floor strike



- 1. Manufacturers:

Door Hardware

2.15 ACCESSORIES FOR PAIRS OF DOORS

A. Coordinators: BHMA A156.3; consisting of active-leaf, hold-open lever and inactive-leaf release trigger; fabricated from steel with nylon-coated strike plates; with built-in, adjustable safety release; and with internal override.



1. Manufacturers

c. Trimco (Triangle Brass Manufacturing Co., Inc.)

RO 576

- B. Carry-Open Bars: BHMA A156.3; prevent the inactive leaf from opening before the active leaf; provide polished brass or bronze carry-open bars with strike plate for inactive leaves of pairs of doors unless automatic or self-latching bolts are used.
 - 1. Pair of 1-3/4-inch by 2-1/4-inch brass & steel carry bar to allow the inactive leaf to open the active leaf and allow the coordinator to engage both doors.
- C. Astragals: BHMA A156.22.



Manufacturers

). Removable Mullions

RO 357

1. Removable Steel Mullion with keyed cylinder and stabilizer

a. <u>Von Duprin; Allegion, plc</u>......KR-4954, 154

2.16 SURFACE CLOSERS

- A. All door closers specified herein shall meet or exceed the following criteria:
 - General: Door closers to be from one manufacturer, matching in design and style, with the same type door
 preparations and templates regardless of application or spring size. Closers to be non-handed with full
 sized covers including installation and adjusting information on inside of cover.
 - Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
 - 3. Cycle Testing: Provide closers which have surpassed 15 million cycles in a test witnessed and verified by UL.
 - 4. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the physically handicapped, provide units complying with ANSI ICC/A117.1.
 - 5. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
 - 6. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
 - 7. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.
- B. Surface Closers: BHMA A156.4; rack-and-pinion hydraulic type with adjustable sweep and latch speeds controlled by key-operated valves and forged-steel main arm. Comply with manufacturer's written instructions for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Provide factorysized closers, adjustable to meet field conditions and requirements for opening force.
 - 1. Surface Closers (BHMA/ANSI #C02061) [hinge (PUSH) side mount] Heavy-duty Grade 1, adjustable opening-force cylinder, metal cover, with cushioned, door-mounted, surface closer. Comply with manufacturer's written recommendations for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use.



Door Hardware



2. Surface Closers (BHMA/ANSI #C02061) [hinge (PULL) side mount] Heavy-duty Grade 1, adjustable opening-force cylinder, metal cover, with cushioned stop, door-mounted, surface closer. Comply with manufacturer's written recommendations for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use.

a.	LCN Closers; Allegion, plc;;	4011-CUSH
b.	Sargent Manufacturing Co, ASSA ABLOY.	1431-CPS
c.	Stanley Commercial Hardware; Div. of The Stanley Works.	D3550-CS

2.17 CONCEALED CLOSERS

- Concealed Closers: BHMA A156.4; rack-and-pinion hydraulic type with adjustable sweep and latch speeds A. controlled by key-operated valves. Comply with manufacturer's written instructions for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Provide factory-sized closers, adjustable to meet field conditions and requirements for opening force.
 - Concealed Closers Heavy-duty Grade 1, closer with hold-open (maximum interior door width: 3'-2"). Comply with manufacturer's written recommendations for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use.

2.18 MECHANICAL STOPS AND HOLDERS

A. Wall- and Floor-Mounted Stops: BHMA A156.16.



RO 404



Wall mounted stops; (ANSI/BHMA #L02251) Concealed mounting, concave bumper with back plate 1. Hager Companies; 234W b. Rockwood Manufacturing Company; 404 c. 2. Kick Down Door Stop (ANSI/BHMA #L01382). Solid cast brass with bumper Hager Companies; FS452-5 b. c.

DOOR GASKETING 2.19

- General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the A. Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.
- В. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.
 - Provide smoke labeled perimeter gasketing at all smoke labeled openings.
- C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.
 - 1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NPFA 252, Standard Methods of Fire Tests of Door Assemblies.
- D. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.

Door Hardware

E. Door Gasketing: BHMA A156.22; with resilient or flexible seal strips that are easily replaceable and readily available from stocks maintained by manufacturer.



Perimeter Gasketing, Adhesive: Silicone Rubber, head and jamb, frame soffit (hollow metal)

a. NGP, National Guard Products

b. Pemko Manufacturing Co.; an ASSA ABLOY Group. S88_

c. Reese Enterprises, Inc.



2. Perimeter Gasketing, fastened (BHMA/ANSI R3E164): Aluminum, Silicone Rubber, head and jamb, frame soffit (hollow metal)

a.	Hager Companies	873S .
b.	NGP, National Guard Products	110S
	Pemko Manufacturing Co.; an ASSA ABLOY Group.	

3. Overhead Door Weather-strip: Surface-mounted brush perimeter seals for gap between the door and frame.

a. Pemko Manufacturing Co.; an ASSA ABLOY Group.......45100_NB

PE 45100 NB

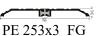
2.20 THRESHOLDS

A. Thresholds: BHMA A156.21; fabricated to full width of opening indicated.

1. Bevel raised thresholds with a slope of not more than 1:2. Provide thresholds not more than one-half inch high.

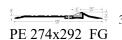
PE 276A

a.	<u>Hager Companies</u>	430S
b.	National Guard Products (NGP).	426
C.	Pemko Manufacturing Co : an ASSA ARI OV Group	276A



Thermal barrier, slip resistant, saddle aluminum threshold, not more than one-half inch high x 6-inches wide with beveled slope of not more than 1:2 (BHMA/ANSI J32190)



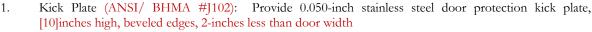


Thermal barrier, slip resistant, aluminum threshold, not more than one-half inch high x 6.6 inches wide with beveled slope of not more than 1:2 (BHMA/ANSI J32190)

a. Pemko Manufacturing Co.; an ASSA ABLOY Group......274x292_FGPK

2.21 METAL PROTECTIVE TRIM UNITS

A. Metal Protective Trim Units: BHMA A156.6; fabricated from 0.050-inch- thick with manufacturer's standard machine or self-tapping screw fasteners.







b.

b.

1.

2.

3.

2.22 AUXILIARY DOOR HARDWARE

A. Auxiliary Hardware: BHMA A156.16.

neoprene sweep















Overhead rain drip with slotted holes, surface mounted: 4.

secured with stainless steel screws.

Pemko Manufacturing Co.; an ASSA ABLOY Group. 346_

2.23 **FABRICATION**

5.

A. Manufacturer's Nameplate: Do not provide products that have manufacturer's name or trade name displayed in a visible location except in conjunction with required fire-rating labels and as otherwise approved by Architect.

Door Silencers, HM frame; (ANSI/BHMA L03011) full range of mgfr's standard finish

Hager Companies; 307D IVES Hardware; Allegion, plc; SR64

Rockwood Manufacturing Company; 608

NGP, National Guard Products 198NA

Door Bottom sweep with neoprene sweeps and rain drips as indicted in the hardware schedule and

Door Bottom Sweep (ANSI/BHMA #R3B434) Surface mounted aluminum retainer with 1-inch exposed

- Manufacturer's identification is permitted on rim of lock cylinders only.
- В. Base Metals: Produce door hardware units of base metal indicated, fabricated by forming method indicated, using manufacturer's standard metal alloy, composition, temper, and hardness. Furnish metals of a quality equal to or greater than that of specified door hardware units and BHMA A156.18.
- Fasteners: Provide door hardware manufactured to comply with published templates prepared for machine, wood, C. and sheet metal screws. Provide screws that comply with commercially recognized industry standards for application intended, except aluminum fasteners are not permitted. Provide Phillips flat-head screws with finished heads to match surface of door hardware unless otherwise indicated.
 - Concealed Fasteners: For door hardware units that are exposed when door is closed, except for units already specified with concealed fasteners. Do not use through bolts for installation where bolt head or nut on opposite face is exposed unless it is the only means of securely attaching the door hardware. Where through bolts are used on hollow door and frame construction, provide sleeves for each through bolt.
 - 2. Fire-Rated Applications:
 - Wood or Machine Screws: For the following:
 - Hinges mortised to doors or frames; use threaded-to-the-head wood screws for wood doors 1) and frames.
 - 2) Strike plates to frames.
 - Closers to doors and frames. 3)
 - Steel Through Bolts: For the following unless door blocking is provided: b.
 - Surface hinges to doors. 1)
 - 2) Closers to doors and frames.
 - 3) Surface-mounted exit devices.
 - 3. Spacers or Sex Bolts: For through bolting of hollow-metal doors.
 - Gasketing Fasteners: Provide noncorrosive fasteners for exterior applications and elsewhere as indicated. 4.

Door Hardware

2.24 FINISHES

- A. Provide finishes complying with BHMA A156.18 as indicated in door hardware schedule.
- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. 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 of the Work.
- B. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Steel Doors and Frames: For surface-applied door hardware, drill and tap doors and frames according to ANSI/SDI A250.6 and ANSI/DHI A115 Series.
- B. Wood Doors: Comply with door and hardware manufacturers' written instructions and ANSI/DHI A115-W series.

3.3 INSTALLATION

- A. Mounting Heights: 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. Wood Doors: DHI's "Recommended Locations for Architectural Hardware for Wood Flush Doors."
- B. Install each door hardware item to comply with manufacturer's written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work. Do not install surface-mounted items until finishes have been completed on substrates involved.
 - 1. Set units level, plumb, and true to line and location. Adjust and reinforce attachment substrates as necessary for proper installation and operation.
 - 2. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- C. Hinges: Install types and in quantities indicated in door hardware schedule, but not fewer than the number recommended by manufacturer for application indicated or one hinge for every 30 inches of door height,

Door Hardware

whichever is more stringent, unless other equivalent means of support for door, such as spring hinges or pivots, are provided.

- D. Lock Cylinders: Install construction cores to secure building and areas during construction period.
 - 1. Furnish permanent cores to Owner for installation.
- E. Key Control System:
 - Key Lock Boxes: Install where indicated or approved by Architect to provide controlled access for fire and medical emergency personnel.
- F. Boxed Power Supplies: Locate power supplies as indicated or, if not indicated, **above accessible ceilings**. Verify location with Architect.
- G. Thresholds: Set thresholds for exterior doors and other doors indicated in full bed of sealant complying with requirements specified in Section 079200 "Joint Sealants."
- H. 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 will impede traffic.
- I. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
 - 1. Do not notch perimeter gasketing to install other surface-applied hardware.
- J. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
- K. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.

3.4 FIELD QUALITY CONTROL

A. Field Inspection: Supplier will perform a final inspection of installed door hardware and state in report whether work complies with or deviates from requirements, including whether door hardware is properly installed, operating and adjusted.

3.5 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.
 - Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.
 - 2. Spring Hinges: Adjust to achieve positive latching when door is allowed to close freely from an open position of 70 degrees and so that closing time complies with accessibility requirements of authorities having jurisdiction.
 - 3. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.

3.6 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.

Door Hardware

3.7 DEMONSTRATION

- A. Train Owner's maintenance personnel to adjust, operate, and maintain door hardware.
- B. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.8 DOOR HARDWARE SCHEDULE

A. Manufacturer Abbreviations Abb Description

AL Alarm Lock

BE Best Access Systems

KB Knox Box

MK McKinney Products

PE Pemko

RO Rockwood Products

SA Sargent

ST Stanley Hardware

VD Von Duprin

B. ANSI/BHMA Finish Numbers

No	Description	Base Material	US Equivalent
603	Zinc Plated Steel (galvanealed)	Steel	US2G
626	Satin Chrome Plated	Brass,Bronze	US26D
628	Satin Alum, Clear Anodized	Aluminum	US28
630	Satin Stainless Steel	Stainless Steel	US32D

C. Schedule

Ha	Hardware Group HG.01A Door # 102, 115, 116, 119, 138				
	Description Int Single, FWD – Office, Corridor				
		Basis of Design BHMA			
Qnty	Product [Spec Part 2 Product]	Mfgr	Product No	Finish	
3	Hinges, steel, medium duty	MK	TA2714 NRP	626	
1	Bored Lockset, Pin/Prox Keyless Lock	AL	PDL30	626	
1	Closer, surface	ST	D3550-CS (mount in room side, not corridor)	626	
1	Smoke seal	PE	S88	Grey	
1	Wall mounted stop, concave	RO	404	626	

Ha	rdware Group HG.01B	D	oor # 102A, 102B, 102C		
	Description Int Single, FWD – Office				
3	Hinges, steel, medium duty	MK	TA2714 NRP	626	
1	Bored Lockset, Pin/Prox Keyless Lock	AL	PDL30	626	
3	Silencers	RO	608	Grey	
1	Wall mounted stop, concave	RO	404	626	

Ha	rdware Group HG.01C	Door # 114			
	Description Int Single, FWD – Office, Corridor				
			Basis of Design	BHMA	
Qnty	Product [Spec Part 2 Product]	Mfgr	Product No	Finish	
3	Hinges, steel, medium duty	MK	TA2714 NRP	626	
1	Bored Lockset, Pin/Prox Keyless Lock	AL	PDL30	626	
1	Bored Aux Lock w/ indicator	SA	468-V21 (room indicator both sides)	626	
1	Closer, surface	ST	D3550-CS (mount in room side, not corridor)	626	
1	Smoke seal	PE	S88	Grey	
1	Wall mounted stop, concave	RO	404	626	

Har	rdware Group HG.02	D	Door # 101A, 101B, 101C, 101D, 127A, 136			
	Description Int Single, FWD – Classroom, Corridor					
		Basis of Design BHMA				
Qnty	Product [Spec Part 2 Product]	Mfgr	Product No	Finish		
3	Hinges, steel, heavy duty	MK	T4A3786 NRP	626		
1	Bored Lockset, Classroom (F84)	BE	9K_R	626		
1	Closer, surface	ST	D3551-CS (mount in room side, not corridor)	626		
1	Smoke seal	PE	S88	Grey		
1	Wall mounted stop, concave	RO	404	626		
	-					

Ha	rdware Group HG.03	D	Door # 118B			
	Description Int Single, FWD – Corridor, Rim Exit					
	Basis of Design BH			BHMA		
Qnty	Product [Spec Part 2 Product]	Mfgr	Product No	Finish		
3	Hinges, steel, medium duty	MK	TA2714 NRP	626		
1	Rim-Exit Device	VD	#99/996L [verify before ordering]	626		
1	Closer, surface	ST	D3551-CS (mount in room side, not corridor)	626		
1	Smoke seal	PE	S88	Grey		
1	Wall mounted stop, concave	RO	404	626		
				•		

Ha	rdware Group HG.04	Door # 110, 125				
	Description Int Single, FWD – Storage, Corridor					
	Basis of Design			BHMA		
Qnty	Product [Spec Part 2 Product]	Mfgr	Product No	Finish		
3	Hinges, stainless steel, medium duty	MK	TA2314 NRP	630		
1	Bored Lockset, Storage (F86)	BE	9K_D	626		
1	Closer, surface	ST	D3550/1-CS (mount in room side, not corridor)	626		
1	Smoke seal	PE	S88	Grey		
1	Wall mounted stop, concave	RO	404	626		

Hai	rdware Group HG.05A	D	Door # 103, 105A, 105B, 111A			
	Description Int Single, FWD – push/pull, Corridor					
		Basis of Design BHMA				
Qnty	Product [Spec Part 2 Product]	Mfgr	Product No	Finish		
3	Hinges, stainless steel, heavy duty	MK	T4A3386 NRP	630		
1	Push-Pull latch	SA	115	626		
1	Closer, surface	ST	D3551-CS (mount in room side, not corridor)	626		
1	Kick Plate (10" high)	RO	K1050 (mount in room side, not corridor)	630		
1	Smoke seal	PE	S88	Grey		
1	Wall mounted stop, concave	RO	404	626		

Hardware Group HG.05B		D	Door # 111B			
	Description Int Single, FWD – push/p	oull, vestibi	ule			
	Basis of Design			BHMA		
Qnty	Product [Spec Part 2 Product]	Mfgr	Product No	Finish		
3	Hinges, stainless steel, heavy duty	MK	T4A3386 NRP	630		
1	Push-Pull latch	SA	115 (dummy trim - no latch retraction, no strike)	626		
1	Closer, surface	ST	D3550-CS (mount in vestibule)	626		
1	Kick Plate (10" high)	RO	K1050 (mount in restroom)	630		
3	Silencers	RO	608	Grey		
1	Wall mounted stop, concave	RO	404	626		
	-	•				

Han	rdware Group HG.06A	D	oor # 104A, 104B, 104C, 104D,	
			111G, 111H, 111I, 111J	
	Description Int Single, FWD - Privacy			
			Basis of Design	BHMA
Qnty	Product [Spec Part 2 Product]	Mfgr	Product No	Finish
3	Hinges, continuous	PE	_FM HD	628
1	Push-Pull latch	SA	115	626
1	Bored Aux Lock w/ indicator	SA	468-V21 (room indicator both sides)	626
1	Kick Plate (10" high)	RO	K1050 (mount WC side)	630
1	Smoke seal	PE	S88	Grey
1	Wall mounted stop, concave	RO	404	626

			oor # 104E, 104F, 104G, 104H, 104I, 104	J, 10+1 x
			111C, 111D, 111E, 111F	
	Description Int Single, FWD - Privacy	w/ closer		
			Basis of Design	BHMA
Qnty	Product [Spec Part 2 Product]	Mfgr	Product No	Finish
3	Hinges, continuous	PE	_FM HD	628
1	Closure, concealed with hold-open	ST	CO-153	626
1	Push-Pull latch	SA	115	626
1	Bored Aux Lock w/ indicator	SA	468-V21 (room indicator both sides)	626
1	Kick Plate (10" high)	RO	K1050 (mount shower-side)	630
3	Silencers	RO	608	Grey
1	Wall mounted stop, concave	RO	404	626

Ha	rdware Group HG.07	D	Door # 125C				
	Description Int Single, FWD - Storage	w/ closer	•				
	Basis of Design BI						
Qnty	Product [Spec Part 2 Product]	Mfgr	Product No	Finish			
3	Hinges, steel, medium duty	MK	TA2714 NRP	626			
1	Bored Lockset, Storage (F86)	BE	9K_D	626			
1	Closer, surface	ST	D3551-CS (mount in room side, not corridor)	626			
1	Smoke seal	PE	S88	Grey			
1	Wall mounted stop, concave	RO	404	626			

Hai	rdware Group HG.08	D	Door # 126				
Description Int Single, FWD – Passage w/ closer and auxiliary lock with indicator							
			Basis of Design				
Qnty	Product [Spec Part 2 Product]	Mfgr	Product No	Finish			
3	Hinges, continuous	PE	_FM HD	628			
1	Push-Pull latch	SA	115	626			
1	Bored Aux Lock w/ indicator	SA	468-V21 (room indicator both sides)	626			
1	Closure, concealed with hold-open	ST	CO-153	626			
1	Kick Plate (10" high)	RO	K1050 (mount restroom side)	630			
1	Smoke seal	PE	S88	Grey			
1	Wall mounted stop, concave	RO	404	626			
				•			

Ha	rdware Group HG.09	Door # 118A			
	Description Int Pair, HM – ADD Panic				
			Basis of Design	BHMA	
Qnty	Product [Spec Part 2 Product]	Mfgr	Product No	Finish	
1	Rim-Exit Device	VD	#99/996L [verify before ordering]	626	
Modify	Modify existing door and hardware to accept new panic hardware on operable leaf only.				

Han	rdware Group HG.10	D	oor # 117A, 121A, 128B	
	Description Ext Single, HM – Entry w	/ closer		
			Basis of Design	BHMA
Qnty	Product [Spec Part 2 Product]	Mfgr	Product No	Finish
3	Hinges, steel, heavy duty	MK	T4A3786 NRP	626
1	Bored Lockset, Pin/Prox Lock	AL	PDL30	626
1	Closer, surface	ST	D3551-CS (mount on interior side)	626
1	Threshold with chair	PE	274X292_FGPK	628
1	Kick Plate (10" high)	RO	K1050 (mount on interior side)	630
1	Perimeter gasketing, fastened	PE	332_S	black
1	Overhead rain drip	PE	346_	628
1	Sweep w rain drip	PE	3452_V	628
1	Kick-down door stop	RO	461L	626
Set thr	eshold in continuous bed of butyl sealant	•		•

Hardware Group HG.11		Door # 125A			
	Description Int Pair, FWD - Entry w/	closer			
			Basis of Design	BHMA	
Qnty	Product [Spec Part 2 Product]	Mfgr	Product No	Finish	
6	Hinges, steel, heavy duty	MK	T4A3786 NRP	626	
1	Bored Lockset, Pin/Prox Lock	AL	PDL30	626	
1	Manual flush bolt pair (top & bottom)	RO	630-8	630	
1	Dust Proof Strike	RO	570	630	
2	Closer, surface	ST	D3550-CS (mount in room side, not corridor)	626	
1	Coordinator	RO	576	Black	
1	Carry-open bar set	RO	1100	626	
1	Astragal	PE	357	603	
2	Smoke seal	PE	S88	Grey	
2	Wall mounted stop, concave	RO	404	626	
2	Threshold, interior	PE	276A	628	
No late	ch trim on inactive leaf				

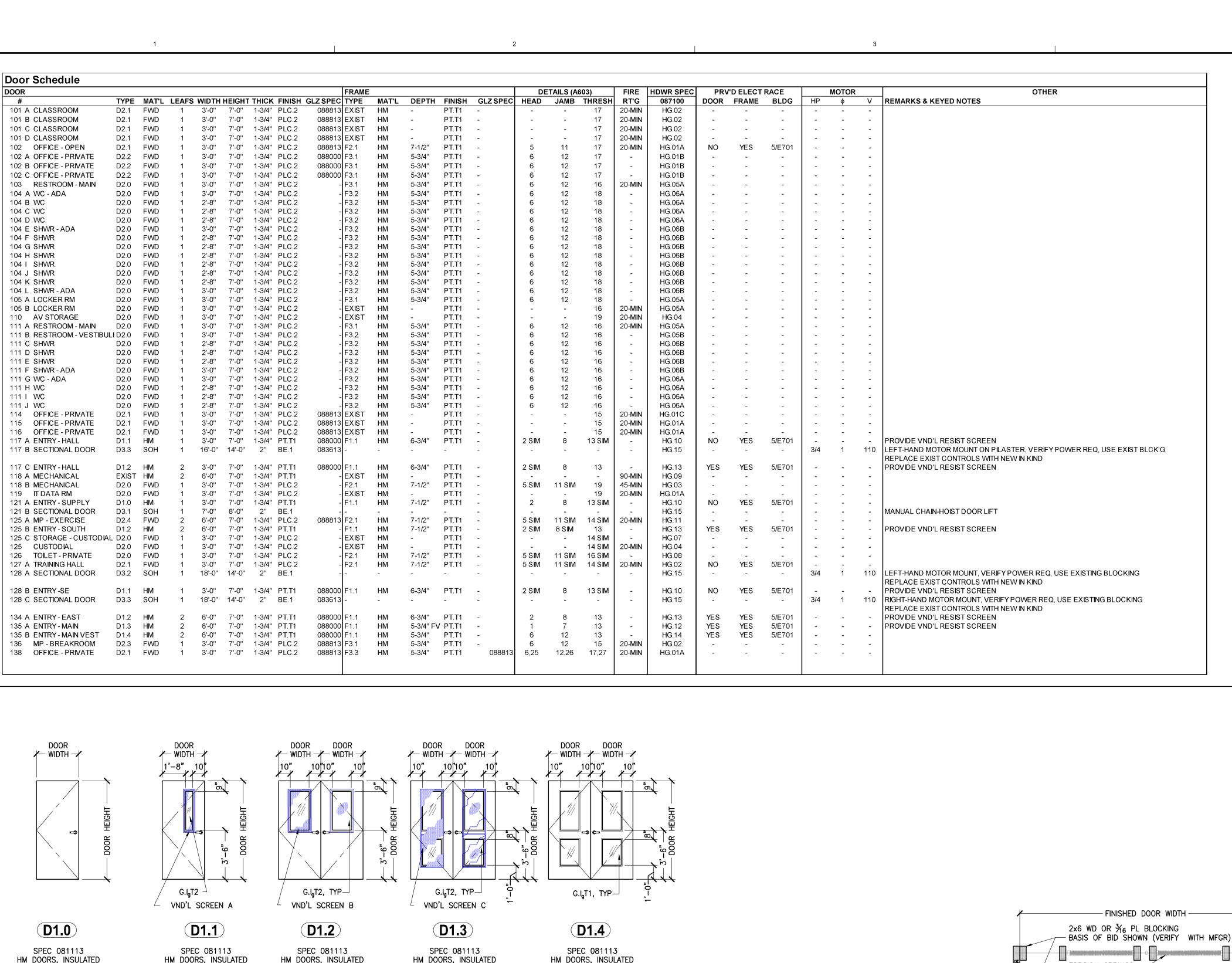
Ha	rdware Group HG.12	Door # 135A					
	Description Ext Pair, HM - Main Entr	y w/ closer & ADA operator					
			Basis of Design				
Qnty	Product [Spec Part 2 Product]	Mfgr	Product No	Finish			
6	Hinges, steel, heavy duty	MK	T4A3786 NRP	626			
1	Rim Panic, entry lock with vandal-guard	VD	#99NL/996NL	626			
1	Rim Panic, dummy trim	VD	#99DT (dummy trim)	626			
1	Removeable mullion, keyed	VD	KR-4954 (provide with cylinder)	-			
2	Closer, surface	ST	D3551*-CS (mount on interior side)	626			
			*provide closure with hold-open capabilities				
2	Threshold with saddle & thermal break	PE	253x3_FG	628			
2	Kick Plate (10" high)	RO	K1050 (mount on interior side)	630			
2	Perimeter gasketing, fastened	PE	332_S	black			
2	Overhead rain drip	PE	346_	628			
2	Sweep w rain drip	PE	3452_V	628			
1	Key Lock Box	KB	3200 (surface mount)				
Verify 1	with owner intent for stand-along access control pin	prox lock o	or other entry protocol / including ADA automatic door con	troller			

Han	rdware Group HG.13	Door # 117C, 125B, 134A					
	Description Ext Pair, HM - Main Entr	y w/ closer					
			Basis of Design				
Qnty	Product [Spec Part 2 Product]	Mfgr	Mfgr Product No				
6	Hinges, steel, heavy duty	MK	T4A3786 NRP	626			
1	Rim Panic, entry lock with vandal-guard	VD	#99NL/996NL	626			
1	Rim Panic, dummy trim	VD	#99DT (dummy trim)	626			
1	Removeable mullion, keyed	VD	KR-4954 (provide with cylinder)	-			
2	Closer, surface	ST	D3551*-CS (mount on interior side)	626			
			*provide closure with hold-open capabilities				
2	Threshold with saddle & thermal break	PE	253x3_FG	628			
2	Kick Plate (10" high)	RO	K1050 (mount on interior side)	630			
2	Perimeter gasketing, fastened	PE	332_S	black			
2	Overhead rain drip	PE	346_	628			
2	Sweep w rain drip	PE	3452_V	628			
Verify with owner intent for stand-along access control pin/prox lock or other entry protocol							

Ha	rdware Group HG.14	Door # 135B					
	Description Ext Pair, HM – Vestibule	w/closers					
			Basis of Design				
Qnty	Product [Spec Part 2 Product]	Mfgr	Product No	Finish			
6	Hinges, steel, heavy duty	MK	T4A3786 NRP	626			
1	Rim Panic, entry lock with vandal-guard	VD	#99NL/996NL	626			
1	Rim Panic, dummy trim	VD	#99DT (dummy trim)	626			
1	Removeable mullion, keyed	VD	KR-4954 (provide with cylinder)	-			
2	Closer, surface	ST	D3551*-CS (mount on interior side)	626			
			*provide closure with hold-open capabilities				
2	Threshold with saddle & thermal break	PE	253x3_FG	628			
2	Kick Plate (10" high)	RO	K1050 (mount on lobby side)	630			
2	Perimeter gasketing, fastened	PE	332_S	black			
2	Sweep	PE	3151_N	628			
2	Wall mounted stop, concave	RO	404	626			
Verify with owner intent for stand-along access control pin/prox lock or other entry protocol / including ADA automatic door controller							

Hardware Group HG.15		D	oor # 117B, 121B, 128A, 128C	
	Description Ext Sectional Door			
			BHMA	
Qnty	Product [Spec Part 2 Product]	Mfgr	Product No	Finish
1	cylinder			
1	Perimeter weather gasket	PE	45100_NB	-

END OF SECTION



F3.3

SPEC 081113

HM FRAME

HEAVY DUTY

F1.1

SPEC 081113

HM FRAME, INSULATED

EXTRA HEAVY-DUTY

Frame Types

SCALE: $\frac{1}{4}$ " = 1'-0"

F2.1

SPEC 081113

HM FRAME

HEAVY DUTY

MASONRY (VERIFY JAMB DEPTH)

F3.1

SPEC 081113

HM FRAME

HEAVY DUTY

GYP BD RETURN

F3.2

SPEC 081113

HM FRAME

HEAVY DUTY

GYP BD RETURN W STOPS

WINDOW							DETAILS (A603)			FIRE	OTHER	
# SPACE	TYPE	MAT'L	WIDTH H	EIGHT	DEPTH	FINISH	GLAZING	HEAD	JAMB	SILL	RT'G	REMARKS & KEYED NOTES
101 A CLASSROOM	W1.1	ALUM	3'-4"	4'-9"	4-1/2"	ANOD.1	088000	28	29	30	-	APPLY SAFETY FILM TO INTERIOR GLASS, SPEC
101 B CLASSROOM	W1.1	ALUM	3'-4"	4'-9"	4-1/2"	ANOD.1	088000	28	29	30	-	APPLY SAFETY FILM TO INTERIOR GLASS, SPEC
101 C CLASSROOM	W1.1	ALUM	3'-4"	4'-9"	4-1/2"	ANOD.1	088000	28	29	30	-	APPLY SAFETY FILM TO INTERIOR GLASS, SPEC
101 D CLASSROOM	W1.1	ALUM	3'-4"	4'-9"	4-1/2"	ANOD.1	088000	28	29	30	-	APPLY SAFETY FILM TO INTERIOR GLASS, SPEC
101 E CLASSROOM	W1.1	ALUM	3'-4"	4'-9"	4-1/2"	ANOD.1	088000	28	29	30	-	APPLY SAFETY FILM TO INTERIOR GLASS, SPEC
101 F CLASSROOM	W1.1	ALUM	3'-4"	4'-9"	4-1/2"	ANOD.1	088000	28	29	30	-	APPLY SAFETY FILM TO INTERIOR GLASS, SPEC
102 OFFICE	W1.2	ALUM	11'-4"	4'-9"	4-1/2"	ANOD.1	088000	28	29	30	-	APPLY SAFETY FILM TO INTERIOR GLASS, SPEC
102 A OFFICE	W1.1	ALUM	3'-4"	4'-9"	4-1/2"	ANOD.1	088000	28	29	30	-	APPLY SAFETY FILM TO INTERIOR GLASS, SPEC
102 B OFFICE	W1.1	ALUM	3'-4"	4'-9"	4-1/2"	ANOD.1	088000	28	29	30	-	APPLY SAFETY FILM TO INTERIOR GLASS, SPEC
102 C OFFICE	W1.1	ALUM	3'-4"	4'-9"	4-1/2"	ANOD.1	088000	28	29	30	-	APPLY SAFETY FILM TO INTERIOR GLASS, SPEC
116 M RECRUITING	F3.4	HM	5'-2"	7'-4"	5-3/4"	PT.T1	088813	25	26	27	20-MIN	SEE SHEET A502 FOR FRAME TYPE
138 OFFICE	W1.5	ALUM	9'-4"	4'-6"	4-1/2"	ANOD.1	088000	22	23	24	-	-
136 A MP ROOM	W1.6	ALUM		4'-6"	4-1/2"	ANOD.1	088000	28	29	24	-	APPLY SAFETY FILM TO INTERIOR GLASS, SPEC
136 B MP ROOM	W1.6	ALUM	7'-4"	4'-6"	4-1/2"	ANOD.1	088000	28	29	24	-	APPLY SAFETY FILM TO INTERIOR GLASS, SPEC
105 A LOCKERRM	W1.3	ALUM		2'-1"	4-1/2"	ANOD.1	088000	28	29	30	-	APPLY SAFETY FILM TO INTERIOR GLASS, SPEC
105 B LOCKER RM	W1.3	ALUM	7'-4"	2'-1"	4-1/2"	ANOD.1	088000	28	29	30	-	APPLY SAFETY FILM TO INTERIOR GLASS, SPEC
105 C LOCKER RM	W1.3	ALUM	7'-4"	2'-1"	4-1/2"	ANOD.1	088000	28	29	30	-	APPLY SAFETY FILM TO INTERIOR GLASS, SPEC
105 D LOCKER RM	W1.3	ALUM	7'-4"	2'-1"	4-1/2"	ANOD.1	088000	28	29	30	-	APPLY SAFETY FILM TO INTERIOR GLASS, SPEC
105 E CHASE	W1.3	ALUM	7'-4"	2'-1"	4-1/2"	ANOD.1	088000	28	29	30	-	APPLY SAFETY FILM TO INTERIOR GLASS, SPEC
125 A EXERCISE RM	1 F3.5	HM	4'-0"	4'-8"	7-1/2"	PT.T1	088813	20	20 SIM	21	20-MIN	SEE SHEET A502 FOR FRAME TYPE
125 B EXERCISE RM	1 F3.5	HM	4'-0"	4'-8"	7-1/2"	PT.T1	088813	20	20 SIM	21	20-MIN	SEE SHEET A502 FOR FRAME TYPE
125 C EXERCISE RM	1 W1.4	ALUM	4'-0"	4'-5"	4-1/2"	ANOD.1	088000	28	29	30 SIM	-	NO FILM, SECURED YARD
125 D EXERCISE RM	1 W1.4	ALUM	4'-0"	4'-5"	4-1/2"	ANOD.1	088000	28	29	30 SIM	-	NO FILM, SECURED YARD



CORTNER

ARCHITECTURAL

COMPANY

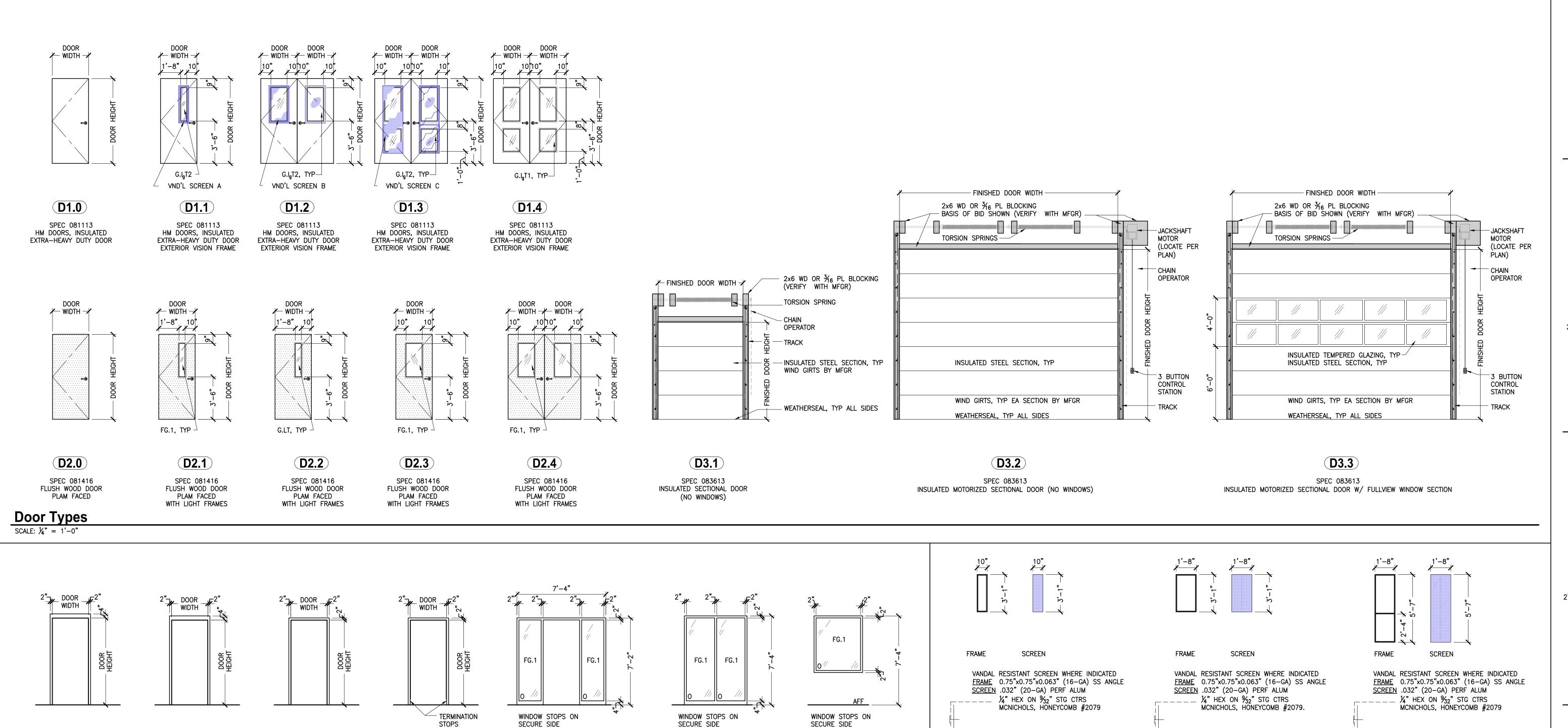
1903 West 3rd Avenue

Spokane, WA 99201

(509) 363-1039

Abbreviations (Door & Window Schedule)

<u>ABBREV</u>	<u>DESCRIPTION</u> <u>SPEC</u>	<u>SECTION</u>
(E), EXIST	EXISTING	
(N)	NEW	
ÁLÚM	ALUMINUM	
ANOD	ANODIZED	
BE	BAKED ENAMEL	
FWD	FLUSH WOOD DOORS	081416
HM	HOLLOW METAL (DOORS AND/OR FRAMES)	081113
PLC	PLASTIC LAMINATE CLAD ARCH CAB	064116
PT	PAINTING [.T=TRIM)	099123
SOH	SECTIONAL (OVERHEAD) DOOR	083613
	,	



F3.4

SPEC 081113

HM FRAME

HEAVY DUTY

F3.5

SPEC 081113

HEAVY DUTY

HM FRAME

ATTACH SCREEN TO FRAME WITH SS

Vandal Resistant Screen Types

Vandal Screen A

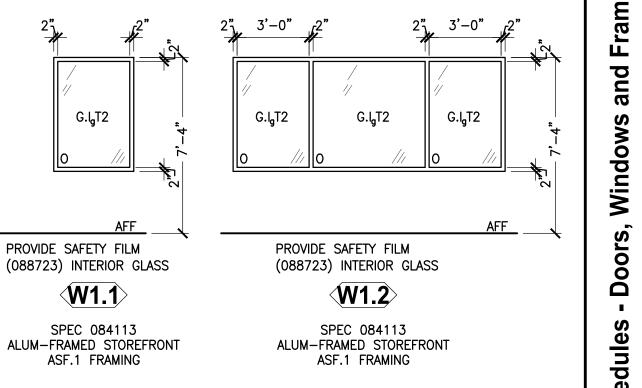
SCALE: $\frac{1}{4}$ " = 1'-0"

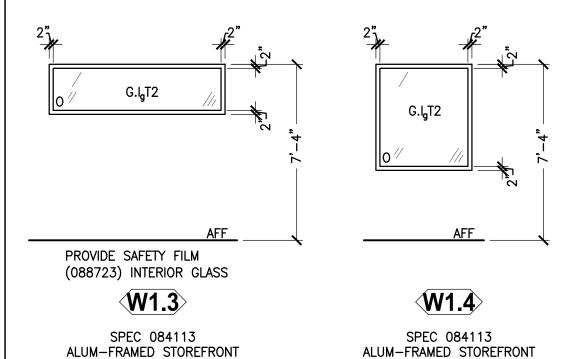
BUTTON HEAD TORX-PIN SCREWS 8" OC

ATTACH SCREEN TO FRAME WITH SS

Vandal Screen B

BUTTON HEAD TORX-PIN SCREWS 8" OC





ASF.1 FRAMING

G.l_gT2, TYP

PROVIDE SAFETY FILM

W1.5

SPEC 084113

ALUM-FRAMED STOREFRONT

Window Types

SCALE: $\frac{1}{4}$ " = 1'-0"

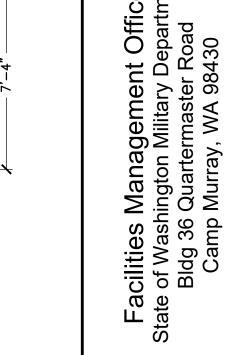
ASF.1 FRAMING

ATTACH SCREEN TO FRAME WITH SS

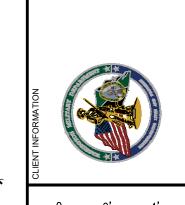
Vandal Screen C

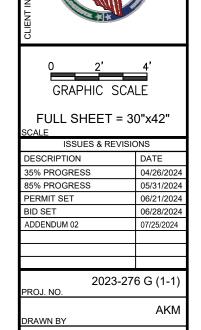
BUTTON HEAD TORX-PIN SCREWS 8" OC

(088723) INTERIOR GLASS



ake RC ⁻ 6500 321 ses Lake,





SHEET RE-ISSUED 07/25/202 A-502

X = OPERABLE (SLIDER)O = NON-OPERABLE (FIXED)(VIEWED FROM EXTERIOR)

PROVIDE SAFETY FILM

W1.6

SPEC 084113

ALUM-FRAMED STOREFRONT

ASF.1 FRAMING

(088723) INTERIOR GLASS

G.I_وT2, TYP

ASF.1 FRAMING