ADDENDUM

JLG 17153 CHI Mental Health

RE: Addendum #1

Issued: February 3, 2026

ADDENDUM #: 1

NOTICE TO CONTRACTORS

This Addendum is prepared to supplement information presented in the Drawings and Project Manual dated January 19, 2026 for the above referenced project. All additions, changes, omissions and conditions listed herein shall become an integral part of the Contract Documents.

SPECIFICATIONS

1. At 04 2000 – Unit Masonry
    - At 2.01, B., 1.: Change the Basis of Design to read "Hebron Brick and Block Supply, custom mix of Scoria and Red Bricks to match existing.
2. At 06 4100 – Architectural Wood Casework
    - At 2.08, B. Change Adjustable Shelf Supports to read "Standard side-mounted system using recessed metal shelf standards or multiple holes for pin supports, double pin, anti-slip and coordinated self rests, polished chrome finish, for nominal 1 inch (25 mm) spacing adjustments.
3. Section 08 5113 – Aluminum Windows is added to the Specifications.
4. Section 08 7100 – Door Hardware is added to the Specifications.
5. Section 10 5116 Wood Lockers is to be removed from the Specifications.
6. Section 10 5613 – Metal Shelving is added to the Specifications.
7. Section 12 36000 Countertops
    - At 2.01, B., 5. Change the edge to 'bullnosed edge'.

DRAWINGS

1. G111 – LIFE SAFETY PLAN AND CODE REVIEW
    - The Life Safety Plan scale has changed and the entirety of the existing smoke compartment 1.4 is shown. Travel distances are shown for this existing smoke compartment. This was requested by the City.
    - The Life Safety Plan has an added not to address the Refuge Area.
    - The Life Safety Plan has egress data added to the Add Alternate courtyard gate.
    - The Travel Distance schedule is updated to show more specific names for the Path IDs and includes the travel distances for the existing smoke compartment 1.4.
    - The Fire-Resistance Ratings legend has the 2-hour rated wall included, which is shown on the existing smoke compartment.
    - The Smoke Compartment Plan has shifted and includes a note addressing the SC abbreviation.
    - The current applicable Mechanical Code has been updated to the 2024 IMC.
2. A050 – ARCHITECTURAL SITE & ROOF PLAN
    - Scale added to roof penetration detail.

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3. A201 – FLOOR PLAN & DIMENSION PLAN
    - Built in lockers and adjacent walls removed from room T1180.
    - Keynote 03.1 added adjacent to T1124 Therapy Office.
4. A212 – ENLARGED PLANS AND ELEVATIONS
    - Furniture removed from elevation 4E.
    - Counter removed from room T1189, see 3A/A212.
    - Counter height change, see 6C and 3E.
5. A220 – DOOR SCHEDULE, DOOR/FRAME TYPES, DOOR DETAILS
    - Hardware updated on doors T1180A, T1200, T1201, and T1213.
6. A501 – INTERIOR DETAILS
    - Slab Infill Detail 7C revised.
7. A611 – INTERIOR ELEVATIONS
    - Elevation 4B removed.
    - Casework removed from view 2A, see elevation for details.
8. A620 – CASEWORK SCHEDULE
    - Wood blocking added to bench section, see 1B for location.
9. A701 – FIRST FLOOR REFLECTED CEILING PLAN
    - Room T1180 ceiling extents are updated and the detail callout removed.

OTHER

See attached narrative from CMTA Engineers.

ATTACHMENTS

Specification Sections 08 5113, 08 7100, 10 5613.
Drawings G111, A050, A201, A212, A220, A501, A611, A620, A701, E201, E400.

END OF ADDENDUM

ADDENDUM – #1 (ELECTRICAL)

Date	02-03-26
Project #	24247
Project Name	CHI Mental Health Remodel
Project Location	Williston, ND

NOTICE TO BIDDERS: This Addendum is prepared to supplement information presented in the Drawings and Project Manual for the above referenced project. All additions, changes, omissions, and conditions listed herein shall become an integral part of the Contract Documents.

Drawings

ITEM NO. 1 E201 - FIRST FLOOR PLAN - LIGHTING & POWER

A. Clarification on notes.

ITEM NO. 2 E400 – LIGHTING DETAILS & SCHEDULES

A. Revised Type 'PV1' light fixture.

PRIOR APPROVALS

SECTION	DESCRIPTION OF EQUIPMENT	APPROVED MANUFACTURER
260923	Lighting Control System (and sensors)	Cooper Wavelinx CAT
265100	Type 'PS1'	Duracare DCTC

END OF ADDENDUM

SECTION 08 5113 - ALUMINUM WINDOWS 1

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Extruded aluminum windows with fixed sash, operating sash, and infill panels.

B. Factory glazing.

1.02 RELATED REQUIREMENTS

A. Section 07 2500 - Weather Barriers: Sealing frame to water-resistive barrier installed on adjacent construction.

B. Section 07 9200 - Joint Sealants: Sealing joints between window frames and adjacent construction.

C. Section 08 8000 - Glazing.

1.03 REFERENCE STANDARDS

A. AAMA/WDMA/CSA 101/I.S.2/A440 - North American Fenestration Standard/Specification for windows, doors, and skylights; 2017.

B. AAMA CW-10 - Care and Handling of Architectural Aluminum from Shop to Site; 2015.

C. AAMA 609 & 610 - Cleaning and Maintenance Guide for Architecturally Finished Aluminum (Combined Document); 2015.

D. AAMA 611 - Specification for Anodized Architectural Aluminum; 2024.

E. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2021.

F. ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric); 2021.

1.04 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements for submittal procedures.

B. Product Data: Include component dimensions, information on glass and glazing, internal drainage details, and descriptions of hardware and accessories.

C. Shop Drawings: Indicate opening dimensions, elevations of different types, framed opening tolerances, method for achieving air and vapor barrier seal to adjacent construction, anchorage locations, and installation requirements.

D. 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.

E. Manufacturer's Installation Instructions: Include complete preparation, installation, and cleaning requirements.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum three years of documented experience.

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B. Installer Qualifications: Company specializing in performing work of type specified and with at least three years of experience.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Comply with requirements of AAMA CW-10.

B. Protect finished surfaces with wrapping paper or strippable coating during installation. Do not use adhesive papers or sprayed coatings that bond to substrate when exposed to sunlight or weather.

1.07 FIELD CONDITIONS

A. Do not install sealants when ambient temperature is less than 40 degrees F (5 degrees C).

B. Maintain this minimum temperature during and 24 hours after installation of sealants.

1.08 WARRANTY

A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.

B. Correct defective work within a five year period after Date of Substantial Completion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Aluminum Windows Manufacturers:

1. Wausau Window and Wall Systems: www.apogeearchmetals.com.
2. Substitutions: See Section 01 6000 - Product Requirements.

2.02 ALUMINUM WINDOWS

A. Aluminum Windows: Extruded aluminum frame and sash, factory fabricated, factory finished, with operating hardware, related flashings, and anchorage and attachment devices.

1. Basis of Design: 4000i-DT Series Behavioral Care Window by Wausau Window and Wall Systems.
   a. Frame Depth: 4 inch (102 mm).
   b. Thermally broken window frames with insulated glazing. Incorporate (SEC GL-1) at interior face.
2. Basis of Design: 2187-DT S.E.A.L. Series by Wausau Window and Wall Systems.
   a. Frame Depth: 2-3/16 inch (51 mm).
   b. Incorporate (SEC GL-1) at interior face.
3. Operable Units: Double weatherstripped.
4. Provide factory-glazed units.
5. Fabrication: Joints and corners flush, hairline, and weatherproof, accurately fitted and secured; prepared to receive anchors; fasteners and attachments concealed from view; reinforced as required for operating hardware and imposed loads.
6. Perimeter Clearance: Minimize space between framing members and adjacent construction while allowing expected movement.
7. Movement: Accommodate movement between window and perimeter framing and deflection of lintel, without damage to components or deterioration of seals.
8. System Internal Drainage: Drain to the exterior by means of a weep drainage network any water entering joints, condensation occurring in glazing channel, and migrating moisture occurring within system.
9. Thermal Movement: Design to accommodate thermal movement caused by 180 degrees F (82.2 degrees C) surface temperature without buckling stress on glass, joint seal failure, damaging loads

on structural elements, damaging loads on fasteners, reduction in performance or other detrimental effects.

10. Integral Venetial Blinds:
    a. Blind to be integrally mounted between glazing.
    b. Behavioral care tilt-control knob will be located on the interior face and incorporate a "slip catch" feature.

2.03 PERFORMANCE REQUIREMENTS

A. Grade: AAMA/WDMA/CSA 101/I.S.2/A440 requirements for specific window type:
   1. Performance Class (PC): LC.

2.04 MATERIALS

A. Extruded Aluminum: ASTM B221 (ASTM B221M), 6063 alloy, T6 temper.

2.05 FINISHES

A. Class I Color Anodized Finish: AAMA 611 AA-M12C22A44, electrolytically deposited colored anodic coating not less than 0.7 mil (0.018 mm) thick.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that wall openings and adjoining water-resistive barrier materials are ready to receive aluminum windows; see Section 07 2500.

3.02 PRIME WINDOW INSTALLATION

A. Install windows in accordance with manufacturer's instructions.
B. Attach window frame and shims to perimeter 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.
D. Install sill and sill end angles.
E. Provide thermal isolation where components penetrate or disrupt building insulation. Pack fibrous insulation in shim spaces at perimeter of assembly to maintain continuity of thermal barrier.
F. Install glass and infill panels in accordance with requirements; see Section 08 8000.

3.03 TOLERANCES

A. Maximum Variation from Level or Plumb: 1/16 inches every 3 ft (1.5 mm/m) non-cumulative or 1/8 inches per 10 ft (3 mm/3 m), whichever is less.

3.04 CLEANING

A. Remove protective material from factory finished aluminum surfaces.
B. Wash surfaces by method recommended and acceptable to window manufacturer; rinse and wipe surfaces clean.
C. Upon completion of installation, thoroughly clean aluminum surfaces in accordance with AAMA 609 & 610.
D. Remove excess glazing sealant by moderate use of mineral spirits or other solvent acceptable to sealant and window manufacturer.

END OF SECTION

SECTION 08 71 00
DOOR HARDWARE
1

PART 1 - GENERAL

1.1 CONDITIONS

A. Conditions of the contract (General and Supplementary Conditions) and Division 01 - General Requirements, govern the work of this section.

B. This section includes all material and related service necessary to furnish all finish hardware indicated on the drawings or specified herein.

C. Furnish UL listed hardware for all labeled and 20 min. openings in conformance with the requirements for the class of opening scheduled. Underwriters' requirements shall have precedence over specification where conflicts exist.

D. All work shall be in accordance with all applicable state and local building codes. Code requirements shall have precedence over this specification where conflicts exist.

1.2 WORK INCLUDED

A. This section includes the following:

1. Furnish door hardware specified herein, listed in the hardware schedule, and/or required by the drawings.
2. Cylinders for Aluminum Doors
3. Thresholds and Weather-stripping (Aluminum frame seals to be provided by aluminum door supplier)
4. Electro-Mechanical Devices

B. Where items of hardware are not definitely or correctly specified and are required for the intended service, such omission, error or other discrepancy should be directed to the Architect prior to the bid date for clarification by addendum. Otherwise furnish such items in the type and quantity established by this specification for the appropriate service intended.

1.3 RELATED WORK IN OTHER SECTIONS

A. This section includes coordination with related work in the following sections:

1. Division 06 Section "Finish Carpentry".
2. Division 08 Section "Hollow Metal Doors and Frames".
3. Division 08 Section "Wood Doors"
4. Division 08 Section "Aluminum Entrances and Storefronts"
5. Division 26 Section “Electrical”
6. Division 28 Section "Electronic Safety and Security".

1.4 REFERENCES

A. Publications of agencies and organizations listed below form a part of this specification section to the extent referenced.

1. DHI - Recommended Locations for Builders' Hardware.
2. NFPA 80 - Standards for Fire Doors and Windows.
3. NFPA 101 - Code for Safety to Life from Fire in Buildings and Structures.
4. UL - Building Material Directory.
5. DHI - Door and Hardware Institute
6. WHI - Warnock Hersey
7. BHMA - Builders Hardware Manufacturers Association
8. ANSI – American National Standards Institute
9. IBC- International Building Code (as adopted and amended by local building code)

1.5 SUBMITTALS

A. Within ten days after award of contract, submit detailed hardware schedule in quantities as required by Division 01 - General Requirements.

B. Schedule format shall be consistent with recommendations for a vertical format as set forth in the Door & Hardware Institute's (DHI) publication "Sequence and Format for the Hardware Schedule". Hardware sets shall be consolidated to group multiple door openings which share similar hardware requirements. Schedule shall include the following information:

1. Door number, location, size, handing, and rating.
2. Door and frame material, handing.
3. Degree of swing.
4. Manufacturer
5. Product name and catalog number
6. Function, type and style
7. Size and finish of each item
8. Mounting heights
9. Explanation of abbreviations, symbols, etc.
10. Numerical door index, indicating the hardware set/ group number for each door.

C. When universal-type door closers are to be provided, the schedule shall indicate the application method to be used for installation at each door: (regular arm, parallel arm, or top jamb).

D. The schedule will be prepared under the direct supervision of a certified Architectural Hardware Consultant (AHC), or certified Door Hardware Consultant (DHC) employed by the hardware distributor. The hardware schedule shall be signed and embossed or stamped with the DHI certification seal of the supervising AHC or DHC. The supervising AHC or DHC shall attend any meetings related to the project when requested by the architect.

E. Check the specified hardware for suitability and adaptability to the details and surrounding conditions.

F. Review drawings from related trades as required to verify compatibility with specified hardware. Indicate unsuitable or incompatible items, and proposed substitutions in the hardware schedule.

G. Provide documentation for all hardware to be furnished on labeled fire doors indicating compliance with positive pressure fire testing UL 10C.

H. Furnish manufacturers' catalog data for each item of hardware in quantities as required by Division 01 - General Requirements.

I. Submit a sample of each type of hardware requested by the architect. Samples shall be of the same finish, style, and function as specified herein. Tag each sample with its permanent location so that it may be used in the final work.

J. Furnish with first submittal, a list of required lead times for all hardware items.

K. After final approved schedule is returned, transmit corrected copies for distribution and field use in quantities as required by Division 01 - General Requirements.

L. Furnish approved hardware schedules, template lists, and pertinent templates as requested by related trades.

M. Furnish necessary diagrams, schematics, voltage and amperage requirements for all electro-mechanical devices or systems as required by related trades. Wiring diagrams shall be opening-specific and include both a riser diagram and point to point diagram showing all wiring terminations.

N. After receipt of approved hardware schedule, Hardware supplier shall initiate a meeting including the owner’s representative to determine keying requirements. Upon completion of initial key meeting, hardware supplier shall prepare a proposed key schedule with symbols and abbreviations as set forth in the door and hardware institute’s publication “Keying Procedures, Systems, and Nomenclature”. Submit copies of owner approved key schedule for review and field use in quantities as required by Division 01 - General Requirements. Wiring diagrams shall be included in final submittals transmitted for distribution of field use.

1.6 QUALITY ASSURANCE

A. Manufacturers and model numbers listed are to establish a standard of function and quality. Similar items by approved manufacturers that are equal in design, function, and quality may be considered for prior approval of the architect, provided the required data and physical samples are submitted for approval as set forth in Division 01 - General Requirements.

B. Where indicated in this specification, products shall be independently certified by ANSI for compliance with relevant ANSI/BHMA standards A156.1 - A156.36 – Standards for Hardware and Specialties. All products shall meet or exceed certification requirements for the respective grade indicated within this specification. Supplier shall provide evidence of certification when requested by the architect.

C. Obtain each type of hardware (hinges, latch & locksets, exit devices, closers, etc.) from a single manufacturer, although several may be indicated as offering products complying with requirements.

D. Electrical drawings and electrical specifications are based on the specific electrified hardware components specified in hardware sets. When electronic hardware components other than those indicated in hardware sets are provided, the supplier shall be responsible for all costs incurred by the design team and their consultants to review and revise electrical drawings and electrical specifications. Supplier shall also be responsible for any additional costs associated with required changes in related equipment, materials, installation, or final hook up to ensure the system will operate and function as indicated in the construction documents, including hardware set operational / functional descriptions.

E. All hardware items shall be manufactured no earlier than 6 months prior to delivery to site.

F. Installation of hardware shall be installed or directly supervised and inspected by a skilled installer certified by the manufacturer of locksets, door closers, and exit devices used on the project, or with not less than 3 years' experience in successful completion of projects similar in size and scope.

G. Provide hardware for all labeled fire doors, which complies with positive pressure fire testing UL 10C.

H. Comply with all applicable provisions of the standards referenced within section 1.4 of this specification.

I. Hardware supplier shall participate when requested to meet with the contractor and or architect to inspect any claim for incorrect or non-functioning materials; following such inspection, the hardware supplier shall provide a written statement documenting the cause and proposed remedy for any unresolved items.

1.7 DELIVERY, STORAGE AND HANDLING

A. Hardware supplier shall deliver hardware to the job site unless otherwise specified.

B. All hardware shall be delivered in manufacturers' original cartons and shall be clearly marked with set and door number.

C. Contractor shall receive all hardware and provide secure and proper protection of all hardware items to avoid delays caused by lost or damaged hardware. Contractor shall report shortages to the Architect and hardware supplier immediately after receiving material at the job site.

D. Coordinate with related trades under the direction of the contractor for delivery of hardware items necessary for factory installation.

1.8 PRE-INSTALLATION MEETING

A. Schedule a hardware pre-installation meeting on site to review and discuss the installation of continuous hinges, locksets, door closers, exit devices, overhead stops, and electromechanical door hardware.

B. Meeting attendees shall be notified 7 days in advance and shall include: Architect, Contractor, Door Hardware Installers (including low voltage hardware), Manufacturer's representatives for above hardware items, and any other affected subcontractors or suppliers.

C. All attendees shall be prepared to distribute installation manuals, hardware schedules, templates, and physical hardware samples.

1.9 WARRANTY

A. All hardware items shall be warranted against defects in material and workmanship as set forth in Division 01 - General Requirements.

B. Repair, replace, or otherwise correct deficient materials and workmanship without additional cost to owner.

PART 2 - PRODUCTS

2.1 FASTENERS

A. All exposed fasteners shall be Phillips head or as otherwise specified and shall match the finish of adjacent hardware. All fasteners exposed to the weather shall be non-ferrous or stainless steel. Furnish correct fasteners to accommodate surrounding conditions.

B. Coordinate required reinforcements for doors and frames. Seek architect approval prior to furnishing through-bolts. Furnish through-bolts as required for materials not readily reinforced.

2.2 BUTT HINGES

A. Acceptable manufacturers and respective catalog numbers:

	Ives
1. Standard Weight, Plain Bearing	5PB1
2. Standard Weight, Ball Bearing	5BB1
3. Standard Weight, Ball Bearing, Non-Ferrous	5BB1
4. Heavy Weight, Ball Bearing	5BB1HW
5. Heavy Weight, Ball Bearing, Non-Ferrous	5BB1HW

B. Hinges shall be independently certified by ANSI for compliance with ANSI A156.1 (2006). Hinges shall meet or exceed the following ANSI grade requirements as indicated below:

1. Standard Weight, Plain Bearing Hinges: Grade 3
2. Standard Weight, 2 Ball Bearing Hinges: Grade 2
3. Heavy Weight, 4 Ball Bearing Hinges: Grade 1

C. Unless otherwise specified, furnish the following hinge quantities for each door leaf.

1. 3 hinges for doors up to 90 inches.
2. 1 additional hinge for every 30 inches on doors over 90 inches.
3. 4 hinges for Dutch door applications.

D. Unless otherwise specified, top and bottom hinges shall be located as specified in Division 08 Section "Hollow Metal Doors and Frames". Intermediate hinges shall be located equidistant from others.

E. Unless otherwise specified, furnish hinge weight and type as follows:

1. Standard-weight plain-bearing hinges or ball-bearing hinges for interior openings up to 36 inches wide without a door closer.
2. Standard weight ball bearing hinges for interior openings 36 to 40 inches wide without a door closer and for interior openings up to 40 inches wide with a door closer.
3. Heavyweight, ball bearing hinges for interior openings over 40 inches wide with a door closer and for all interior vestibule doors.
4. Heavyweight stainless steel ball bearing hinges for all exterior openings unless otherwise listed in groups.
5. Heavyweight 5" height ball bearing hinges for all doors that have an automatic operator.

F. Unless otherwise specified, furnish hinges for exterior doors, fabricated from brass, bronze, or stainless steel. Unless otherwise specified, hinges for interior doors may be fabricated from steel.

G. Unless otherwise specified, furnish hinges in the following sizes:

1. 5" x 5" 2-1/4" thick doors
2. 4-1/2" x 4-1/2" 1-3/4" thick doors
3. 3-1/2" x 3-1/2" 1-3/8" thick doors

H. Furnish hinges with width to accommodate trim and allow for 180-degree swing.

I. Unless otherwise specified, furnish hinges with flat button tips with non-rising pins. Furnish non-removable pin (NRP) hinges at all reverse-handed doors that are furnished with lockable hardware.

J. Unless otherwise specified, furnish all hinges to template standards.

2.3 CONTINUOUS DOUBLE-ACTING HINGES

A. Acceptable manufacturers and respective catalog numbers:

	PEM
1. Double-Swing Hinge	DSH1000

B. Hinges shall be independently certified by ANSI for compliance with ANSI A156.26, Grade 1 (2012).

C. Continuous hinges shall be double-acting geared type.

D. Hinge shall be non-handed with factory-drilled hole pattern.

E. Provide machine screws for doors which have been reinforced to accept machine screws.

2.4 FLUSH BOLTS AND DUST PROOF STRIKES

A. Acceptable manufacturers and respective catalog numbers:

	Ives
1. Dust Proof Strike	DP2
2. Auto Flush Bolt (Metal Door)	FB31P
3. Auto Flush Bolt (Wood Door)	FB41P

B. Unless otherwise specified, provide 12" rods for manual flush bolts for door 7'6" or less, 24" top rods for doors over 7'6" to 8'6".

C. Unless otherwise specified, provide doors over 8'6" with automatic top bolts.

D. Provide automatic flush bolts where required to maintain fire door listing and or egress requirements on pairs of doors.

E. All flush-bolt applications shall be UL listed to be installed with top flush-bolt only. Provide auxiliary fire bolt as required for fire rated openings where less bottom bolt has been specified.

F. Provide all bottom flush bolts with non-locking dust proof strikes.

2.5 LOCKS AND LATCHES

A. Acceptable manufacturers and respective catalog numbers:

	Schlage
1. Grade 1 Mortise	L Series
2. Grade 1 Cylindrical	ND Series
3. Small Case Mortise Deadbolt	L400 Series

A. Bored locks shall be independently certified by ANSI for compliance with ANSI A156.2 (2011).

B. Mortise locks shall be independently certified by ANSI for compliance with ANSI A156.13 (2012).

C. Provide HSLR anti-ligature trim as noted in hardware sets.

D. Provide levers to match hardware in existing facility at remaining hardware sets.

E. Unless otherwise specified, all locks and latches have:
   1. 2-3/4" Backset
   2. 1/2" minimum throw latchbolt
   3. 1" throw deadbolt
   4. ANSI A115.2 strikes

F. Provide guarded latch bolts for all locksets and latch bolts with throw to maintain fire rating of both single and paired door assemblies.

G. Provide strike with lip length adequate to clear surrounding trim.

H. Provide wrought boxes for strikes at inactive doors, wood frames, and metal frames without integral mortar covers.

I. Provide temperature control modules for electrified locks to limit transfer of heat to door lever.

2.6 CLOSERS

A. Acceptable manufacturers and respective catalog numbers:

   LCN
   1. 4040XP
   2. 4511T (High Security)
   3. 2210 (Concealed High Security)
   4. 6030 (Concealed double-acting)

B. Door closers shall be independently certified by ANSI for compliance with ANSI A156.4, Grade 1 (2013).

C. Obtain door closers from a single manufacturer, although several may be indicated as offering products complying with requirements.

D. Provide extra heavy-duty arm (EDA / HD) when closer is to be installed using parallel arm mounting.

E. Hardware supplier shall coordinate with related trades to ensure aluminum frame profiles will accommodate specified door closers.

F. Provide “SPECIAL TEMPLATE - #1728 / #0723” closer arms as required to accommodate aluminum frame head details with “non-structural stops” when closers will be required to utilize parallel arm mounting positions. Frame mounting shoe shall be shortened, and pivot hub height shall be increased to permit frame mounted shoe to be positioned on frame rabbit (rather than the frame stop), and behind the frame stop rather than on top of the frame stop. Contact LCN Door Closers at: 877-671-7011 for pricing and design assistance.

G. Closers shall use high strength cast iron cylinders, forged main arms, and one-piece forged steel pistons.

H. Closers shall utilize a stable fluid withstanding temperature range of +120deg F to -30deg F without seasonal adjustment of closer speed to properly close the door. Closers for fire-rated doors shall be provided with temperature stabilizing fluid that complies with standards UL10C.

I. Unless otherwise specified, all door closers shall have full covers and separate adjusting valves for sweeps, latch, and backcheck.

J. Provide closers for all labeled doors. Provide closer series and type consistent with other closers for similar doors specified elsewhere on the project.

K. Provide closers with adjustable spring power. Size closers to ensure exterior and fire rated doors will consistently close and latch doors under existing conditions. Size all other door closers to allow for reduced opening force not to exceed 5 lbs.

L. Install closers on the room side of corridor doors, stair side of stairways and interior side of exterior doors.

M. Closers shall be furnished with all mounting brackets and cover plates as required by door and frame conditions, and by adjacent hardware.

N. Door closers shall be provided with a powder-coat finish to provide superior protection against the effects of weathering. Powder coat finish shall successfully pass a 100-hour salt spray test.

O. Closers with pressure relief valve (PRV) shall not be acceptable.

2.7 KICK PLATES AND MOP PLATES

A. Furnish protective plates as specified in hardware groups.

B. Where specified, provide 10" kick plates, 34" armor plates, and 4" mop plates. Unless otherwise specified, metal protective plates shall be .050" thick; plastic plates shall be 1/8" thick.

C. Protective plates shall be 2" less door width, or 1" less door width at pairs. All protective plates shall be beveled on 4 sides and counter sunk.

D. Protection plates over 16" shall not be provided for labeled doors unless specifically approved by door manufacturers listing. When protection plates over 16” are provided for labeled doors, the plate shall be labeled.

E. Where specified, provide surface mounted door edges. Edges shall butt to protective plates. Provide edges with cutouts as required adjacent hardware.

F. Adjust dimensions of protection plates to accommodate stile and rail dimensions, lite and louver cutouts, and adjacent hardware. Where required by adjacent hardware, protection plates shall be factory drilled for cylinders or other mortised hardware.

2.8 OVERHEAD STOPS

A. Acceptable manufacturers and respective catalog numbers:

	Glynn-Johnson
1. Heavy Duty Surface Mount	GJ900 Series
2. Heavy Duty Concealed Mount	GJ100 Series

B. Unless otherwise specified, furnish GJ900 series overhead stop for hollow metal or 1-3/4” solid core doors equipped with regular arm surface type closers that swing more than 140 degrees before striking a wall, for hollow metal or 1-3/4” solid core doors that open against equipment, casework, sidelights, or other objects that would make wall bumpers inappropriate, and as specified in hardware groups.

C. Furnish sex bolt attachments for wood and mineral core doors unless doors are supplied with proper reinforcing blocks.

D. Provide special stop only (“SE” suffix) overhead stops when used in conjunction with electronic hold open closers.

E. Do not provide holder function for labeled doors.

2.9 WALL STOPS AND HOLDERS

A. Acceptable manufacturers and respective catalog numbers:

	Ives	Kingsway
1. Wrought Convex Wall Stop	WS406CVX	
2. Wrought Concave Wall Stop	WS406CCV	
3. Anti-ligature Wall Stop		KG182

B. Furnish a stop or holder for all doors.

C. Provide concave style wall stop at all adjacent integral push button locks; provide convex style wall stop at all other locations.

D. Where wall stops are not applicable, furnish overhead stops.

E. Furnish floor stops only where specified in hardware sets.

F. Do not provide holder function for labeled doors.

2.10 WEATHERSTRIP, GASKETING

A. Acceptable manufacturers and respective catalog numbers:

		Zero
1.	Weatherstrip	429
2.	Adhesive Gasket	188 ZAG
3.	Sweep w/ drip	8198
4.	Drip Cap	142

B. Weatherstrip and gasketing shall be independently certified by ANSI for compliance with ANSI A156.22 (2005).

C. Where specified in the hardware groups, furnish the above products unless otherwise detailed in groups.

D. Provide weatherstripping all exterior doors and where specified in hardware sets.

E. Provide intumescent and other required edge sealing systems as required by individual fire door listings to comply with positive pressure standards UL 10C.

F. Provide Zero 188 smoke gaskets at all fire rated doors and smoke and draft control assemblies.

G. Provide gasketing for all meeting edges on pairs of fire doors. Gasketing shall be compatible with astragal design provided by door supplier as required for specific fire door listings.

2.11 THRESHOLDS

A. Acceptable manufacturers and respective catalog numbers:

		Zero
1.	Saddle Threshold	8655
2.	Thermal Break Saddle Threshold	625
3.	Half Saddle Threshold	1675

A. Thresholds shall be independently certified by ANSI for compliance with ANSI A156.21 (2001).

B. Hardware supplier shall verify finish floor conditions and provide proper threshold as required to provide a smooth transition between finished floor surfaces.

C. Unless otherwise specified or detailed, provide threshold as follows:

1. Provide Zero 8655 or similar saddle threshold for exterior openings with finished floor height transition of ¼" or less.
2. Provide Zero 1675 or similar half-saddle threshold for exterior openings with finished floor height transition of ¼" to ½".

2.12 ELECTRIC STRIKES

A. Acceptable manufacturers and respective catalog numbers:

		Von Duprin	HES
1.	Type 1	6200 Series	4500 Series

B. Provide electric strikes compatible with the type of locks shown at each opening where specified.

C. Electric strikes shall be UL listed as Burglary-Resistant Electric Door Strikes and where required shall be UL listed as Electric Strike for Fire Doors.

D. Provide transformers and rectifiers for each strike as required. Verify voltage with electrical contractor.

2.13 DOOR POSITION SWITCHES

A. Acceptable manufacturers and respective catalog numbers:

	Schlage Electronics	GEI	Sargent
1. Concealed	679 Series	1076W	3287

2.14 FINISHES AND BASE MATERIALS

A. Unless otherwise indicated in the hardware groups or herein, hardware finishes shall be applied over base metals as specified in the following finish schedule:

HARDWARE ITEM	BHMA FINISH
1. Butt Hinges: Exterior	630 (US32D - Satin Stainless Steel)
2. Butt Hinges: Interior	652 (US26D - Satin Chromium)
3. Continuous Hinges	630 (US32D - Satin Stainless Steel)
4. Flush Bolts	626 (US26D - Satin Chromium)
5. Exit Devices	626 (US26D - Satin Chromium)
6. Locks and Latches	626 (US26D - Satin Chromium)
7. Pulls and Push Plates/Bars	630 (US32D - Satin Stainless Steel)
8. Coordinators	600 (Prime painted or mill alum.)
9. Closers	689 (Powder Coat Aluminum)
10. Protective Plates	630 (US32D - Satin Stainless Steel)
11. Overhead Stops	630 (US32D - Satin Stainless Steel)
12. Wall Stops	630 (US32D - Satin Stainless Steel)
13. Thresholds	719 (Mill Aluminum)
14. Weather-strip, Sweeps Drip Caps	Aluminum Anodized
15. Miscellaneous	626 (US26D - Satin Chromium)

2.15 KEYING

A. Provide all cylinders in keyways as required to accommodate Owners existing key system.

B. All locks under this section shall be keyed as directed by the owner to an existing Master Key System.

C. Furnish a total of 2 keys per cylinder. Actual cut keys to be determined by owner.

D. Master keys, control keys, and change keys shall be delivered by registered mail to the owner. Construction keys shall be delivered to the contractor.

2.16 KEY CABINETS

A. Acceptable manufacturers and respective catalog numbers:

	Lund	Key Control	Telkee
1.	1200-1205 AA	M228-2480	RWC-AWC

B. Furnish 1 each model 1200 or 1205 AA key cabinet with a capacity 1.5 times the number of key sets.

C. Provide one key cabinet with at least one hook for each key set, plus additional hooks for 50% expansion.

D. Furnish key cabinet complete with cam lock, permanent key tags, and change key cards.

E. Hardware supplier shall prepare all key change index records, tag all keys and place permanent file keys in cabinet.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Prior to installation of hardware, installer shall examine door frame installation to ensure frames have been set square and plumb. Installer shall examine doors, door frames, and adjacent wall, floor, and ceiling for conditions, which would adversely affect proper operation and function of

door assemblies. Do not proceed with hardware installation until such deficiencies have been corrected.

3.2 INSTALLATION

A. Before hardware installation, general contractor/construction manager shall coordinate a hardware installation seminar with a 1 week notice to all parties involved. The seminar is to be conducted on the installation of hardware, specifically of locksets, closers, exit devices, continuous hinges and overhead stops. Manufacturer's representative of the above products to present seminar. Seminar to be held at the job site and attended by installers of hardware (including low voltage hardware) for aluminum, hollow metal and wood doors. Training to include use of installation manuals, hardware schedule, templates and physical products samples.

B. Provide blocking or reinforcement for all hardware mounted to drywall construction, including wall mounted door stops and holders.

C. Shim doors as required to maintain proper operating clearance between door and frame.

D. Install all hardware in accordance with the approved hardware schedule and manufacturer’s instructions for installation and adjustment.

E. Set units level, plumb and true to the line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.

F. Drill and countersink units which are not factory-prepared for anchorage fasteners. Space fasteners and anchors in accord with industry standards.

G. Drill appropriate size pilot holes for all hardware attached to wood doors and frames.

H. Unless otherwise specified, locate all hardware in accordance with the recommended locations for builders hardware for standard doors and frames as published by the Door and Hardware Institute.

I. Use only fasteners supplied by or approved by the manufacturer for each respective item of hardware.

J. Conceal push and pull bar fasteners where possible. Do not install through bolts through push plates.

K. Install hardware on UL labeled openings in accordance with manufacturer's requirements to maintain the label.

L. Apply self-adhesive gasketing on frame stop at head & latch side and on rabbet of frame at hinge side.

M. Install hardware in accordance with supplemental "S" label instructions on all fire rated openings.

N. Install wall stops to contact lever handles or pulls. Do not mount wall stops on casework, or equipment.

O. Where necessary, adjust doors and hardware as required to eliminate binding between strike and latchbolt. Doors should not rattle.

P. Overhead stops used in conjunction with electrified hold open closers shall be templated and installed to coincide with engagement of closer hold open position.

Q. Install door closers on corridor side of lobby doors, room side of corridor doors, and stair side of stairways.

R. Adjust spring power of door closers to the minimum force required to ensure exterior and fire rated doors will consistently close and latch doors under existing conditions. Adjust all other door closers to ensure opening force does not exceed 5 lbs.

S. Adjust "sweep", "latch", & "back check" valves on all door closers to properly control door throughout the opening and closing cycle. Adjust total closing speed as required to comply with all applicable state and local building codes.

T. Install "hardware compatible" (bar stock) type weatherstripping continuously for an uninterrupted seal. Adjust templating for parallel-arm door closers, exit devices, etc., as required to accommodate weatherstripping.

U. Unless otherwise specified or detailed, install thresholds with the bevel in vertical alignment with the outside door face. Notch and closely fit thresholds to frame profile. Set thresholds in full bed of sealant.

V. Compress sweep during installation as recommended by sweep manufacturer to facilitate a water-resistant seal.

W. Deliver to the owner one complete set of installation and adjustment instructions, and tools as furnished with the hardware.

3.3 FIELD QUALITY CONTROL

A. After installation has been completed, the hardware supplier for locksets, door closers, exit devices and overhead stops shall check the project and verify compliance with installation instructions, adjustment of all hardware items, and proper application according to the approved hardware schedule. Hardware supplier shall submit a list of all hardware that has not been installed correctly.

B. After installation has been completed, the hardware supplier shall meet with the owner to explain the functions, uses, adjustment, and maintenance of each item of hardware. Hardware supplier shall provide the owner with a copy of all wiring diagrams. Wiring diagrams shall be opening-specific and include both a riser diagram and point to point diagram showing all wiring terminations.

3.4 ADJUSTMENT AND CLEANING

A. At final completion, and when H.V.A.C. equipment is in operation, installer shall make final adjustments to and verify proper operation of all door closers and other items of hardware. Lubricate moving parts with type lubrication recommended by the manufacturer.

B. All hardware shall be left clean and in good operation. Hardware found to be disfigured, defective, or inoperative shall be repaired or replaced.

3.5 HARDWARE SCHEDULE

A. The following schedule of hardware groups is intended to describe opening function. The hardware supplier is cautioned to refer to the preamble of this specification for a complete description of all materials and services to be furnished under this section.

145877 OPT0466171 VERSION 1

HW SET: 01

QTY		DESCRIPTION	CATALOG NUMBER	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	IVE
1	EA	PASSAGE SET	ND10S	SCH
1	EA	WALL STOP	WS406	IVE

FUNCTION: (F75) PASSAGE LATCH. LATCH RETRACTED BY LEVER EITHER SIDE. BOTH LEVERS ALWAYS UNLOCKED.

HW SET: 02

NOT USED

HW SET: 03

QTY		DESCRIPTION	CATALOG NUMBER	MFR
1	EA	EXIT X BLANK OUTSIDE	ND25	SCH
1	EA	MOTION SENSOR	SCANII	SCE
	EA	REMAINING HARDWARE	EXISTING	

FUNCTION: EXIT LOCK. NO OUTSIDE TRIM. INSIDE LEVER ALWAYS UNLOCKED.

HW SET: 04

QTY		DESCRIPTION	CATALOG NUMBER	MFR
2	EA	SPRING HINGE	3SP1 4.5 X 4.5	IVE
1	EA	EXIT X BLANK OUTSIDE	ND25	SCH

FUNCTION: EXIT LOCK. NO OUTSIDE TRIM. INSIDE LEVER ALWAYS UNLOCKED.

HW SET: 05

QTY		DESCRIPTION	CATALOG NUMBER	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	IVE
1	EA	ENTRANCE/OFFICE LOCK	ND50	SCH
1	EA	WALL STOP	WS406	IVE

FUNCTION: (F82) OFFICE LOCK. OUTSIDE LEVER LOCKED/UNLOCKED BY OUTSIDE KEY. INSIDE BUTTON LOCKS OUTSIDE LEVER UNTIL UNLOCKED BY OUTSIDE KEY OR BY TURNING INSIDE LEVER. INSIDE LEVER ALWAYS UNLOCKED.

HW SET: 06

QTY		DESCRIPTION	CATALOG NUMBER	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	IVE
1	EA	CLASSROOM LOCK	ND70	SCH
1	EA	SURFACE CLOSER	4040XP REG	LCN
1	EA	KICK PLATE	8400 10"	IVE
1	EA	WALL STOP	WS406	IVE
1	EA	PERIMETER SEAL	188S ZAG	ZER

FUNCTION: (F84) CLASSROOM LOCK. LATCH RETRACTED BY LEVER EITHER SIDE. OUTSIDE KEY LOCKS/UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS UNLOCKED.

HW SET: 07

QTY		DESCRIPTION	CATALOG NUMBER	MFR
1	EA	DOUBLE-SWING HINGE	DSH1000	PEM
1	EA	CLASSROOM LOCK	ND70 HSLR	SCH
1	EA	KEY CYLINDER	AS REQUIRED (FOR ALARM KEYSWITCH)	
1	EA	KEYED EMERGENCY RELEASE STOP	ERSBH	PEM
1	EA	ANTI-LIG WALL STOP	KG182	KIN
1	EA	ANT-LIG ALARM SYSTEM	BY OWNER'S VENDOR	
1	EA	STROBE LIGHT	BY OWNER'S VENDOR	

FUNCTION: (F84) CLASSROOM LOCK. LATCH RETRACTED BY LEVER EITHER SIDE. OUTSIDE KEY LOCKS/UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS UNLOCKED.

KEYED EMERGENCY RELEASE STOP UNLOCKED BY EMERGENCY KEY TO ALLOW DOOR TO SWING OUT IN THE EVENT OF AN EMERGENCY.

ANTI-LIGATURE ALARM SYSTEM INITIATED WHEN PRESENCE IS DETECTED AT TOP OF DOOR. KEYSWITCH AT DOOR RESETS ANTI-LIGATURE ALARM SYSTEM.
COORDINATE DOOR SENSORS, KEY SWITCH, ALARM STROBE, ALERT SYSTEM, MASTER CONTROL PANEL, LOCAL DISPLAY PANEL, AND AUDIBLE ALARM HORN LOCATIONS AND REQUIREMENTS FOR COMPLETE ANTI-LIGATURE ALARM SYSTEM.

HW SET: 08

QTY		DESCRIPTION	CATALOG NUMBER	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	IVE
1	EA	CLASSROOM LOCK	ND70	SCH
1	EA	KICK PLATE	8400 10"	IVE
1	EA	WALL STOP	WS406	IVE

FUNCTION: (F84) CLASSROOM LOCK. LATCH RETRACTED BY LEVER EITHER SIDE. OUTSIDE KEY LOCKS/UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS UNLOCKED.

HW SET: 09

QTY		DESCRIPTION	CATALOG NUMBER	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	IVE
1	EA	CORRIDOR LOCK W/ OUTSIDE INDICATOR	ND73 OS-OCC	SCH
1	EA	OH STOP	90S	GLY

FUNCTION: (F90) CORRIDOR LOCK. OUTSIDE KEY LOCKS/UNLOCKS OUTSIDE LEVER. INSIDE PUSH BUTTON LOCKS OUTSIDE LEVER UNTIL INSIDE LEVER IS TURNED OR DOOR IS CLOSED. INSIDE LEVER ALWAYS UNLOCKED.
OUTSIDE INDICATOR DISPLAYS OCCUPIED/VACANT STATUS.

HW SET: 10

QTY		DESCRIPTION	CATALOG NUMBER	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	IVE
1	EA	STOREROOM LOCK	ND80	SCH
1	EA	WALL STOP	WS406	IVE

FUNCTION: (F86) STOREROOM LOCK. FIXED OUTSIDE TRIM - OUTSIDE KEY OR INSIDE LEVER RETRACTS LATCH. INSIDE LEVER ALWAYS UNLOCKED.

HW SET: 11

QTY		DESCRIPTION	CATALOG NUMBER	MFR
1	EA	STOREROOM LOCK	ND80	SCH
1	EA	WELDABLE GATE BOX	K-BXRHO	KEE
	EA	REMAINING HARDWARE	BY GATE SUPPLIER	

FUNCTION: (F86) STOREROOM LOCK. FIXED OUTSIDE TRIM - OUTSIDE KEY OR INSIDE LEVER RETRACTS LATCH. INSIDE LEVER ALWAYS UNLOCKED.
NOTE: PROVIDE WELDED STEEL SECURITY PLATE OR MESH BARRIER WITH NO OPENING GREATER THAN 1/2 INCH WITHIN 18 INCHES OF LATCH TO PREVENT UNAUTHORIZED ENTRY.

HW SET: 12

NOT USED

HW SET: 13

QTY		DESCRIPTION	CATALOG NUMBER	MFR
1	EA	DOUBLE-SWING HINGE	DSH1000	PEM
1	EA	STOREROOM LOCK	ND80 HSLR	SCH
1	EA	KEYED EMERGENCY RELEASE STOP	ERSBH	PEM
1	EA	ANTI-LIG WALL STOP	KG182	KIN

FUNCTION: (F86) STOREROOM LOCK. FIXED OUTSIDE TRIM - OUTSIDE KEY OR INSIDE LEVER RETRACTS LATCH. INSIDE LEVER ALWAYS UNLOCKED.

KEYED EMERGENCY RELEASE STOP UNLOCKED BY EMERGENCY KEY TO ALLOW DOOR TO SWING OUT IN THE EVENT OF AN EMERGENCY.

HW SET: 14

QTY		DESCRIPTION	CATALOG NUMBER	MFR
6	EA	HOSPITAL-TIP HINGE	5BB1 HT 4.5 X 4.5	IVE
1	SET	FLUSH BOLT	AUTOMATIC (LESS BOTTOM BOLT)	IVE
1	EA	STOREROOM LOCK	ND80 HSLR	SCH
1	EA	ANTI-LIG WALL STOP	KG182	KIN

FUNCTION: (F86) STOREROOM LOCK. FIXED OUTSIDE TRIM - OUTSIDE KEY OR INSIDE LEVER RETRACTS LATCH. INSIDE LEVER ALWAYS UNLOCKED.

HW SET: 15

QTY		DESCRIPTION	CATALOG NUMBER	MFR
6	EA	HINGE	5BB1 4.5 X 4.5	IVE
2	EA	ROLLER LATCH	RL36	IVE
2	EA	SINGLE DUMMY TRIM	ND170	SCH
2	EA	OH STOP	90S	GLY

FUNCTION: DUMMY TRIM W/ ROLLER LATCH.

HW SET: 16

QTY		DESCRIPTION	CATALOG NUMBER	MFR
3	EA	HOSPITAL-TIP HINGE	5BB1 HT 4.5 X 4.5	IVE
1	EA	STOREROOM W/DEADBOLT	L9480 HSLR XL13-439	SCH
1	EA	KICK PLATE	8400 10"	IVE
1	EA	ANTI-LIG WALL STOP	KG182	KIN

FUNCTION: STOREROOM LOCK WITH DEADBOLT. FIXED OUTSIDE TRIM - OUTSIDE KEY RETRACTS LATCHBOLT AND DEADBOLT.
INSIDE LEVER ALWAYS UNLOCKED. INSIDE LEVER RETRACTS LATCHBOLT AND DEADBOLT.

HW SET: 17

QTY		DESCRIPTION	CATALOG NUMBER	MFR
2	EA	HINGE	5BB1 4.5 X 4.5	IVE
1	EA	ELECTRIC HINGE	5BB1 4.5 X 4.5 TW8	IVE
1	EA	EU STOREROOM LOCK	ND80EU RX	SCH
1	EA	SURFACE CLOSER	4040XP REG	LCN
1	EA	KICK PLATE	8400 10"	IVE
1	EA	WALL STOP	WS406	IVE
1	EA	CREDENTIAL READER	BY SECURITY SUPPLIER	B/O
1	EA	DOOR POSITION SWITCH	679	SCE
1	EA	POWER SUPPLY	BY SECURITY SUPPLIER	
1	EA	WIRING DIAGRAMS	RISER AND POINT-TO-POINT	

FUNCTION: ELECTRIFIED STOREROOM LOCK - FAIL SECURE. LATCH BOLT RETRACTED BY KEY. INSIDE LEVER ALWAYS UNLOCKED.
OUTSIDE LEVER UNLOCKED BY ELECTRONIC ACCESS CONTROL SYSTEM. UPON LOSS OF POWER, OUTSIDE LEVER REMAINS LOCKED.

HW SET: 18

QTY		DESCRIPTION	CATALOG NUMBER	MFR
2	EA	HINGE	5BB1 4.5 X 4.5	IVE
1	EA	ELECTRIC HINGE	5BB1 4.5 X 4.5 TW8	IVE
1	EA	EU STOREROOM LOCK	ND80EU RX	SCH
1	EA	SURFACE CLOSER	4040XP EDA	LCN
1	EA	KICK PLATE	8400 10"	IVE
1	EA	WALL STOP	WS406	IVE
1	EA	CREDENTIAL READER	BY SECURITY SUPPLIER	B/O
1	EA	DOOR POSITION SWITCH	679	SCE
1	EA	POWER SUPPLY	BY SECURITY SUPPLIER	
1	EA	WIRING DIAGRAMS	RISER AND POINT-TO-POINT	

FUNCTION: ELECTRIFIED STOREROOM LOCK - FAIL SECURE. LATCH BOLT RETRACTED BY KEY. INSIDE LEVER ALWAYS UNLOCKED.
OUTSIDE LEVER UNLOCKED BY ELECTRONIC ACCESS CONTROL SYSTEM. UPON LOSS OF POWER, OUTSIDE LEVER REMAINS LOCKED.

HW SET: 19

QTY		DESCRIPTION	CATALOG NUMBER	MFR
2	EA	HOSPITAL-TIP HINGE	5BB1 HT 4.5 X 4.5	IVE
1	EA	HOSPITAL-TIP ELECTRIC HINGE	5BB1 HT 4.5 X 4.5 TW8	IVE
1	EA	EU STOREROOM LOCK	ND80EU HSLR RX	SCH
1	EA	ANTI-LIG WALL STOP	KG182	KIN
1	EA	CREDENTIAL READER	BY SECURITY SUPPLIER	B/O
1	EA	DOOR POSITION SWITCH	679	SCE
1	EA	POWER SUPPLY	BY SECURITY SUPPLIER	
1	EA	WIRING DIAGRAMS	RISER AND POINT-TO-POINT	

FUNCTION: ELECTRIFIED STOREROOM LOCK - FAIL SECURE. LATCH BOLT RETRACTED BY KEY. INSIDE LEVER ALWAYS UNLOCKED.
OUTSIDE LEVER UNLOCKED BY ELECTRONIC ACCESS CONTROL SYSTEM. UPON LOSS OF POWER, OUTSIDE LEVER REMAINS LOCKED.

HW SET: 20

QTY		DESCRIPTION	CATALOG NUMBER	MFR
2	EA	HOSPITAL-TIP HINGE	5BB1 HT 4.5 X 4.5	IVE
1	EA	HOSPITAL-TIP ELECTRIC HINGE	5BB1 HT 4.5 X 4.5 TW8	IVE
1	EA	EU STOREROOM LOCK	ND80EU HSLR RX	SCH
1	EA	OH STOP	90S SOC	GLY
1	EA	CREDENTIAL READER	BY SECURITY SUPPLIER	B/O
1	EA	DOOR POSITION SWITCH	679	SCE
1	EA	POWER SUPPLY	BY SECURITY SUPPLIER	
1	EA	WIRING DIAGRAMS	RISER AND POINT-TO-POINT	

FUNCTION: ELECTRIFIED STOREROOM LOCK - FAIL SECURE. LATCH BOLT RETRACTED BY KEY. INSIDE LEVER ALWAYS UNLOCKED.
OUTSIDE LEVER UNLOCKED BY ELECTRONIC ACCESS CONTROL SYSTEM. UPON LOSS OF POWER, OUTSIDE LEVER REMAINS LOCKED.

HW SET: 21

QTY		DESCRIPTION	CATALOG NUMBER	MFR
2	EA	HOSPITAL-TIP HINGE	5BB1 HT 4.5 X 4.5	IVE
1	EA	HOSPITAL-TIP ELECTRIC HINGE	5BB1 HT 4.5 X 4.5 TW8	IVE
1	EA	EU STOREROOM LOCK	ND80EU HSLR RX	SCH
1	EA	H-SEC SURFACE CLOSER	4511T	LCN
1	EA	KICK PLATE	8400 10"	IVE
1	EA	ANTI-LIG WALL STOP	KG182	KIN
1	EA	PERIMETER SEAL	188S ZAG	ZER
1	EA	CREDENTIAL READER	BY SECURITY SUPPLIER	B/O
1	EA	DOOR POSITION SWITCH	679	SCE
1	EA	POWER SUPPLY	BY SECURITY SUPPLIER	
1	EA	WIRING DIAGRAMS	RISER AND POINT-TO-POINT	

FUNCTION: ELECTRIFIED STOREROOM LOCK - FAIL SECURE. LATCH BOLT RETRACTED BY KEY. INSIDE LEVER ALWAYS UNLOCKED.
OUTSIDE LEVER UNLOCKED BY ELECTRONIC ACCESS CONTROL SYSTEM. UPON LOSS OF POWER, OUTSIDE LEVER REMAINS LOCKED.

HW SET: 22

QTY		DESCRIPTION	CATALOG NUMBER	MFR
1	EA	DOUBLE-SWING HINGE WITH POWER TRANSFER	DSH1000 SER	PEM
1	EA	EU STOREROOM LOCK	ND80EU HSLR RX	SCH
1	EA	KEYED EMERGENCY STOP	ADL-CEK	ACC
1	EA	CONCEALED CLOSER	6031 BUMP TORX	LCN
1	EA	KICK PLATE	8400 10"	IVE
1	EA	ANTI-LIG WALL STOP	KG182	KIN
1	EA	CREDENTIAL READER	BY SECURITY SUPPLIER	B/O
1	EA	DOOR POSITION SWITCH	679	SCE
1	EA	POWER SUPPLY	BY SECURITY SUPPLIER	
1	EA	WIRING DIAGRAMS	RISER AND POINT-TO-POINT	

FUNCTION: ELECTRIFIED STOREROOM LOCK - FAIL SECURE. LATCH BOLT RETRACTED BY KEY. INSIDE LEVER ALWAYS UNLOCKED.
OUTSIDE LEVER UNLOCKED BY ELECTRONIC ACCESS CONTROL SYSTEM. UPON LOSS OF POWER, OUTSIDE LEVER REMAINS LOCKED.

KEYED EMERGENCY RELEASE STOP UNLOCKED BY EMERGENCY KEY TO ALLOW DOOR TO SWING OUT IN THE EVENT OF AN EMERGENCY.

HW SET: 23

QTY		DESCRIPTION	CATALOG NUMBER	MFR
2	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	IVE
1	EA	ELECTRIC HINGE	5BB1HW 4.5 X 4.5 TW8	IVE
1	EA	EU MORTISE LOCK	L9095EU HSLR	SCH
1	EA	H-SEC CONC CLOSER	2210	LCN
1	EA	KICK PLATE	8400 10"	IVE
1	EA	FLOOR STOP	FS444	IVE
1	EA	RAIN DRIP	142	ZER
1	SET	GASKETING	429	ZER
1	EA	DOOR SWEEP	8198	ZER
1	EA	THRESHOLD	AS REQUIRED	ZER
1	EA	CREDENTIAL READER	BY SECURITY SUPPLIER	B/O
1	EA	DOOR POSITION SWITCH	679	SCE
1	EA	POWER SUPPLY	BY SECURITY SUPPLIER	
1	EA	WIRING DIAGRAMS	RISER AND POINT-TO-POINT	

FUNCTION: ELECTRIFIED INSTITUTION LOCK - FAIL SECURE. INSIDE OR OUTSIDE KEY RETRACTS LATCH. INSIDE OR OUTSIDE LEVER UNLOCKED BY CREDENTIAL READER. UPON LOSS OF POWER, BOTH LEVERS REMAIN LOCKED.

HW SET: 24

QTY		DESCRIPTION	CATALOG NUMBER	MFR
2	EA	HINGE	5BB1 4.5 X 4.5 NRP	IVE
1	EA	ELECTRIC HINGE	5BB1 4.5 X 4.5 TW8	IVE
1	EA	EU MORTISE LOCK	L9095EU HSLR	SCH
1	EA	H-SEC SURFACE CLOSER	4511T	LCN
1	EA	KICK PLATE	8400 10"	IVE
1	EA	ANTI-LIG WALL STOP	KG182	KIN
1	EA	INTERCOM/REMOTE RELEASE SWITCH	BY SECURITY SUPPLIER	
2	EA	CREDENTIAL READER	BY SECURITY SUPPLIER	B/O
1	EA	DOOR POSITION SWITCH	679	SCE
1	EA	POWER SUPPLY	BY SECURITY SUPPLIER	
1	EA	WIRING DIAGRAMS	RISER AND POINT-TO-POINT	

FUNCTION: ELECTRIFIED INSTITUTION LOCK - FAIL SECURE. INSIDE OR OUTSIDE KEY RETRACTS LATCH. INSIDE AND OUTSIDE LEVER MOMENTARILY UNLOCKED BY ELECTRONIC ACCESS CONTROL SYSTEM. UPON LOSS OF POWER, BOTH LEVERS REMAIN LOCKED.

HW SET: 25

QTY		DESCRIPTION	CATALOG NUMBER	MFR
3	EA	HOSPITAL-TIP HINGE	5BB1 HT 4.5 X 4.5	IVE
1	EA	STOREROOM W/DEADBOLT	L9480 HSLR XL13-439	SCH
1	EA	ELECTRIC STRIKE	6216 FSE	VON
1	EA	KICK PLATE	8400 10"	IVE
1	EA	ANTI-LIG WALL STOP	KG182	KIN
1	EA	CREDENTIAL READER	BY SECURITY SUPPLIER	B/O
1	EA	POWER SUPPLY	BY SECURITY SUPPLIER	
1	EA	WIRING DIAGRAMS	RISER AND POINT-TO-POINT	

FUNCTION: STOREROOM LOCK WITH DEADBOLT. LATCH RETRACTED BY OUTSIDE KEY OR INSIDE LEVER. OUTSIDE LEVER FIXED. DEADBOLT THROWN/RETRACTED BY OUTSIDE KEY OR INSIDE THUMB TURN. TURNING INSIDE LEVER RETRACTS DEADBOLT AND LATCH. INSIDE LEVER ALWAYS UNLOCKED FOR FREE EGRESS. ELECTRIC STRIKE RELEASED BY ELECTRONIC ACCESS CONTROL SYSTEM. ELECTRIC STRIKE RELEASES LATCHBOLT ONLY – DEADBOLT IS MANUALLY THROWN OR RETRACTED TO MAINTAIN PRIVACY.

HW SET: 26

QTY		DESCRIPTION	CATALOG NUMBER	MFR
3	EA	HOSPITAL-TIP HINGE	5BB1HW HT 4.5 X 4.5	IVE
2	EA	1-SIDED THUMBTURN DEADBOLT	L480 09-158 (VERIFY MTG HEIGHT)	SCH
1	EA	ANTI-LIG WALL STOP	KG182	KIN

THUMBTURN THROWN OR RETRACTED BY OUTSIDE TURN.

END OF SECTION

SECTION 10 5613 - METAL STORAGE SHELVING 1

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Flush Mount Wall Gun Safe.

1.02 RELATED REQUIREMENTS

A. Section 06 1000 - Rough Carpentry: Blocking and reinforcement in walls for anchoring shelving units.

B. Section 09 2116 - Gypsum Board Assemblies: Blocking and reinforcement in walls for anchoring shelving units.

1.03 REFERENCE STANDARDS

A. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.

1.04 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

B. Product Data: Manufacturer's data sheets on each product to be used, including:

1. Rated uniform shelf loads.
2. Details of shelving assemblies, including reinforcement.
3. Accessories.

C. Shop Drawings: Indicate location, type, and layout of shelving, including lengths, heights, and aisle layout, and relationship to adjacent construction.

1. Indicate methods of achieving specified anchoring requirements.

D. Warranty: Submit manufacturer warranty and ensure that forms have been completed in CHI St. Alexius Health's name and registered with manufacturer.

E. Maintenance Materials: Furnish the following for CHI St. Alexius Health's use in maintenance of project.

1. See Section 01 6000 - Product Requirements, for additional provisions.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Inspect for dents, scratches, or other damage. Replace damaged units.

B. Store in manufacturer's unopened packaging until ready for installation.

C. Store under cover and elevated above grade.

1.07 WARRANTY

A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.

B. Provide one year manufacturer warranty covering defects of manufacturing and workmanship and rust and corrosion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Flush Mount Wall Gun Safe

1. Basis of Design: SKU: SMS-05-V72-EDHGF04VC by Storemorestore: www.storemorestore.com.
2. Substitutions: See Section 01 6000 - Product Requirements.

2.02 GUN SAFE

A. Anchors: Provide anchoring hardware to secure each shelving unit to wall.
1. Provide hardware of type recommended by manufacturer for substrate.
2. See drawings for additional details of anchorage.

2.03 FLUSH MOUNT WAL

A. Case Construction: Formed sheet metal comprising vertical support members and enclosure panels.
1. Connecting Hardware: Manufacturer's standard.
B. Doors: Manufacturer's standard welded steel.
1. Style: Solid panel.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that substrate is level and that clearances are as specified.
B. Verify that walls are suitable for shelving attachment.
C. Do not begin installation until substrates have been properly prepared.
D. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.02 PREPARATION

A. Clean surfaces thoroughly prior to installation.
B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.03 INSTALLATION

A. Install in accordance with manufacturer's instructions.
B. Anchor and reinforce as specified, as indicated on drawings, and as recommended by manufacturer.
C. Install shelving with shelf surfaces level and vertical supports plumb; adjust feet and bases as required.

3.04 CLEANING

A. Clean shelving and surrounding area after installation.

3.05 PROTECTION

A. Protect installed products until completion of project.
B. Touch-up, repair or replace damaged products before Date of Substantial Completion.

END OF SECTION