

ADDENDUM NO. 2

TO: PLANS AND SPECIFICATIONS FOR STATE OF MISSOURI

**Upgrades and Renovations
Missouri Veterans Home
Cape Girardeau, Missouri
Project No.: U1805-01 (FAI 29-043)**

Bid Opening Date: 1:30 PM, Thursday, July 22, 2025 (Changed)

Bidders are hereby informed that the construction Plans and/or Specifications including Addendum #1 are modified as follows:

GENERAL CLARIFICATIONS:

General Contractor to coordinate various scopes of work referenced in drawings with Owner's existing vendors indicated below. There is currently no access control at this facility, but there will be a new electronic access system planned for install later this year.

1. Vendor List:
 - a. Nurse Call Vendor: Tech Electronics
 - b. Monitoring Vendor: Johnson Controls
 - c. FUTURE Access Control Systems: Gallagher, Contact: Kenton Brothers
 - d. Fire Alarm is in the process of being updated throughout the building. Coordinate with Owner for current vendor information.
2. Casework Details shown on drawings A-415, A-416, A-417: MDF cores are acceptable for cabinet bodies, cabinet doors, drawer fronts and shelves.
3. The AWI labeling and full certification program (QCP) can be waived. Documentation showing that the firm holds an AWI certification will meet the bid specification requirements, as previously confirmed in an RFI response.

SPECIFICATION CHANGES:

1. Section 001116-INVITATION FOR BID
 - a. REVISE Paragraph 3.0-A as follows:
 - A. Until: **1:30 PM, July 22, 2025**
2. Section 011000 -- SUMMARY OF WORK
 - a. REVISE Paragraph 1.3-B as follows:
 - B. The following phasing schedule is the preliminary phasing schedule. Contractor to provide detailed schedule as described in Section 01 3200. Add 10 processing days between Contractor Notice of Intent and Notice of Award.
3. Section 044313 - STONE MASONRY VENEER Paragraph 2.4-B.2:
 - a. ADD mortar product manufacturer:
 - d. Tenon – Veneer Mortar HB

4. Section 064100 – ARCHITECTURAL WOOD CASEWORK
 - a. REPLACE Section in its entirety
5. Section 072500 WEATHER BARRIERS Paragraph 2.2-A.k:
 - a. ADD proposed weather barrier product:
 - 6) SOPREMA Sopraseal LM 204 VP
 - 7) TK-AirMax
6. Section 087100 – DOOR HARDWARE
 - a. REPLACE Section in its entirety.
7. Section 101200 – DISPLAY CASES
 - a. REPLACE Section in its entirety.
8. Section 237313 – MODULAR INDOOR CENTRAL-STATION AIR-HANDLING UNITS
 - a. REMOVE AND REPLACE Paragraph 2.7-A
 - A. DDC Controller and Control Components: Provided by Controls Contractor.
 - 1) Provide panel-mounted, factory wired, application-specific (ASC) or advanced application-programmable controller (APC).
 - 2) ASC or APC: See Section 25 1400 except for manufacturer-provided units that are fully compatible with site BAS, BMS, SCADA, or Integrated Automation System.
 - 3) Include built-in or provide local screen push-button interface for local monitoring, adjustment, tuning, data logging, and troubleshooting.
 - 4) Factory configured to handle internal equipment using manufacturer's specific instructions unless directly specified on listed sequence of operation.
 - 5) Factory wired into panel-mounted auxiliary relay(s) to handle scheduled or interlocked cycle-duty operation of externally linked equipment as indicated on drawings.
 - 6) Factory installed, wired, programmed, and tested, including each component.
 - 7) BAS, SCADA, or other Integrated Automation Link: ASHRAE Std 135 BACnet MS/TP.
9. Section 323119 – DECORATIVE METAL FENCES AND GATES
 - a. REPLACE Section in its entirety

DRAWING CHANGES:

1. Drawing C-003
 - a. DELETE note referring to removal and replacement of asphalt pavement under a separate contract. Existing asphalt pavement in that area will remain as is.
2. Drawing C-007
 - a. REVISED fence pedestrian gates to swing out from fence area to allow for egress.
 - b. REVISED vehicle access gates to show cantilever slide gates instead of swing gates.
 - c. REVISED vehicle access gate and pedestrian gate notes to be separate notes to provide more detail on the specified gate.

Pedestrian Swing Gate Note(s):

NEW SWING GATE FOR PEDESTRIAN ACCESS - REFER TO SPEC SECTION 32 3119 (ALTERNATE #2). NOTE: ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL WIRING, JUNCTION BOXES, CONDUIT, ETC. AS REQUIRED TO

CONNECT DIGITAL ENTRY SYSTEM TO EXISTING POWER SOURCE AND FIRE ALARM SYSTEM.

Vehicle Access Gate Note(s):

NEW CANTILEVER SLIDE GATE FOR VEHICLE ACCESS -REFER TO SPEC SECTION 32 3119 (ALTERNATE #2). NOTE: ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL WIRING, JUNCTION BOXES, CONDUIT, ETC. AS REQUIRED TO CONNECT DIGITAL ENTRY SYSTEM TO EXISTING POWER SOURCE AND FIRE ALARM SYSTEM.

3. Drawing S-101
 - a. REMOVE AND REPLACE Note T:
T. See S-402 for base plate details.
4. Drawing S-102
 - a. REMOVE AND REPLACE Note T:
T. See S-402 for base plate details.
 - b. ADD columns tags for clarification.
5. Drawing S-103
 - a. REMOVE AND REPLACE Note T:
T. See S-402 for base plate details.
 - b. ADD columns tags for clarification.
6. Drawing S-104
 - a. REMOVE AND REPLACE Note T:
T. See S-402 for base plate details.
 - b. ADD columns tags for clarification.
7. Drawing S-202
 - a. ADD columns tags for clarification.
8. Drawing S-203
 - a. ADD columns tags for clarification.
 - b. ADD beam tag on grid line BB for clarification.
9. Drawing S-204
 - a. ADD columns tags for clarification.
10. Drawing A-103
 - a. REMOVE AND REPLACE Demolition keynote D12:
 12. EXISTING EXTERIOR WINDOW TO BE REMOVED AND INTERIOR LAMINATE WINDOWSILLS. REMOVE AND DISPOSE OF EXISTING WINDOW TREATMENT WHERE OCCURS. PROTECT OPENING TO RECEIVE NEW REPLACEMENT WINDOWS. AT ALT#3 LOCATIONS, WINDOWS TO BE REMOVED AND REPLACED IN ITS ENTIRETY IF ALTERNATE IS REJECTED.
11. Drawing A-104
 - a. REMOVE AND REPLACE Demolition keynote D12:
 12. EXISTING EXTERIOR WINDOW TO BE REMOVED AND INTERIOR LAMINATE WINDOWSILLS. REMOVE AND DISPOSE OF EXISTING WINDOW TREATMENT

WHERE OCCURS. PROTECT OPENING TO RECEIVE NEW REPLACEMENT WINDOWS. AT ALT#3 LOCATIONS, WINDOWS TO BE REMOVED AND REPLACED IN ITS ENTIRETY IF ALTERNATE IS REJECTED.

12. Drawing A-105

- a. REMOVE AND REPLACE Demolition keynote D12:

12. EXISTING EXTERIOR WINDOW TO BE REMOVED AND INTERIOR LAMINATE WINDOWSILLS. REMOVE AND DISPOSE OF EXISTING WINDOW TREATMENT WHERE OCCURS. PROTECT OPENING TO RECEIVE NEW REPLACEMENT WINDOWS. AT ALT#3 LOCATIONS, WINDOWS TO BE REMOVED AND REPLACED IN ITS ENTIRETY IF ALTERNATE IS REJECTED.

13. Drawing A-107

- a. REMOVE AND REPLACE Demolition keynote D15:

D15 EXISTING GUTTERS AND DOWNSPOUTS TO BE REMOVED, TYPICAL UNLESS NOTED OTHERWISE.

14. Drawing A-109

- a. REVISE Enlarged Floor Plan – Central Core to designate window types ‘N’ on north side of west hall leading from Lobby 002 to Reception 005.
- b. REVISE Enlarged Floor Plan – Central Core to designate window types ‘C’ on north side of Admin Assist. Room 003.

15. Drawing A-110

- a. REVISE Enlarged Floor Plan – Wing A to designate window type ‘B’ at Patio A223

16. Drawing A-116

- a. REVISE Detail 3 – ENLARGED ADMIN. ASSIST. To indicate window tag designations type ‘C’.

17. Drawing A-601

- a. ADD Remark 8.

8. PREP DOOR FRAME FOR FUTURE CARD READER/ELECTRONIC ACCESS CONTROL.

- b. REVISE Door Schedule by adding Remark 8 to Doors: 001C, 041, A222A, A222B, A222C, A223.

18. M-107 WING A VENTILATION PLAN

- a. ADDED Keynote 21:

21. SINGLE THERMOSTAT PROVIDED BY CONTROLS CONTRACTOR TO ALL ELECTRIC BASEBOARD HEATERS IN SPACE.

19. M-115 ALTERNATE 1 INFECTIOUS DISEASE HYDRONIC PLAN

- a. ADDED HC-1 for preheat

20. M-401 ENLARGED MECHANICAL PLANS

- a. REVISED alternate 1 mech c321 3d view to show HC-1.

21. ADDED page M-504 MECHANICAL DETAILS

- a. HC-1 Hot Water Coil detail.

22. M-601 MECHANICAL SCHEDULES

- a. REMOVE AND REPLACE Fan Coil Schedule note 2:

2. CONTROLS CONTRACTOR WILL SUPPLY BACNET CONTROLLER. MOUNT THERMOSTAT 48" ABOVE FINISHED FLOOR.
- b. REMOVE AND REPLACE Door Air Curtain Schedule note 1:
 1. PROVIDE ON-BOARD BACNET-IP CONTROLLER AND VENDOR SUPPLIED DOOR SWITCH. ENABLE BACNET CONTROL, MONITORING AND ALARMS.
- c. REMOVE AND REPLACE Baseboard heater Schedule note 1:
 1. CONTROLS CONTRACTOR TO PROVIDE WALL MOUNTED TEMPERATURE SENSOR WITH BACNET CAPABILITY TO ALLOW BAS TO CONTROL THE UNITS.
23. M-602 MECHANICAL SCHEDULES
 - a. REVISED Gravity Roof Ventilator Schedule to remove backdraft damper
 - b. ADD Pre-Heating coil Schedule.
24. M-604 CONTROL DIAGRAM
 - a. REVISED Fan Coil Unit controls to add dehumidification sequence.
25. M-605 CONTROL DIAGRAM
 - a. REVISED AHU controls to add dehumidification sequence.
26. M-607 INFECTIOUS DISEASE CONTROLS DIAGRAMS
 - a. REVISED Make up Air unit controls to add Pre-heat Coil.
27. E-001 ELECTRICAL SYMBOLS
 - a. REVISED communications symbols list.
28. E-002 ELECTRICAL GENERAL NOTES AND ABBREVIATIONS
 - a. ADD General notes – Conduit and Wiring Paragraph B:
 - B: CONDUIT AND WIRING ABOVE CEILING SHALL BE LISTED AS PLENUM RATED.
29. E-106 POWER DEMOLITION PLAN – WING A
 - a. ADD general note Paragraph B:
 - B. DURING DEMOLITION MAINTAIN EXISTING CIRCUITS FOR REUSE UNLESS NOTED OTHERWISE.
30. E-107 POWER DEMOLITION PLAN – WING B
 - a. ADD general note Paragraph B:
 - B. DURING DEMOLITION MAINTAIN EXISTING CIRCUITS FOR REUSE UNLESS NOTED OTHERWISE.
31. E-108 POWER DEMOLITION PLAN – WING C
 - a. ADD general note Paragraph B:
 - B. DURING DEMOLITION MAINTAIN EXISTING CIRCUITS FOR REUSE UNLESS NOTED OTHERWISE.
32. E-109 SYSTEMS DEMOLITION PLAN – CORE
 - a. REMOVE general note A:
 - A. NOT USED
33. E-110 SYSTEMS DEMOLITION PLAN – WING A
 - a. REMOVE general note B:

B. NOT USED

34. E-113 ELECTRICAL SITE PLAN

- a. ADD general note B:

B. SEE SHEET C-007 FOR EXTERIOR FENCE GATE LOCATIONS. COORDINATE WITH GATE SYSTEM MANUFACTURER FOR EXACT REQUIREMENTS. PROVIDE POWER FROM NEAREST ELECTRICAL PANEL HAVING SPACE. (ALTERNATE #2)

35. E-119 POWER PLAN – CORE

- a. ADDED power to door 043.

36. E-120 POWER PLAN – WING A

- a. ADDED power to door A223.
b. REMOVED floating keynote 6.

37. E-122 POWER PLAN – WING C

- a. REMOVED floating keynote 8.

38. E-123 POWER PLAN – ALTERNATE 1 INFECTIOUS DISEASE

- a. ADDED 22,000 AIC rating TO SCC RATING (SYM) on panel MCL4.

39. E-124 ELECTRICAL ROOF PLAN

- a. ADDED areas of work with associated keynote 1.

40. E-125 SYSTEMS PLAN – CORE

- a. REVISED general notes.
b. REVISED access control at door 001C.
c. ADDED access control at door 043.

41. E-126 SYSTEMS PLAN – WING A

- a. REVISED general notes.
b. REVISED keynote 1.
c. ADDED access control at door A223.
d. REMOVED data in patient rooms throughout.

42. E-127 SYSTEMS PLAN – WING B

- a. REVISED general notes.
b. REVISED keynote 1.
c. REMOVED data in patient rooms throughout.

43. E-128 SYSTEMS PLAN – WING C

- a. REVISED general notes.
b. REVISED keynote 1.
c. REMOVED data in patient rooms throughout.

44. E-501 ELECTRICAL DETAILS

- a. ADDED access control detail.

45. E-601 ONE-LINE DIAGRAM

- a. REVISED feeder schedule.
b. REMOVED panel PAV.

46. E-602 ELECTRICAL SCHEDULES

- a. REMOVE AND REPLACE lighting fixture schedule types A:
A. CPX 2X4 AL07 SWW7 M4

- b. REMOVE AND REPLACE lighting fixture schedule types W:
W. CPX 2X4 AL07 SWW7 M4

47. E-604 ELECTRICAL SCHEDULES WING A

- a. ADDED "existing" to panel MLL3.

48. E-607 ELECTRICAL SCHEDULES

- a. ADDED 22,000 AIC rating TO SCC RATING (SYM) on panel MEL4C.

GENERAL COMMENTS:

1. Bidders needing additional site inspection should contact Brian Blankenship at 573-986-4015 to schedule a time if access to the facility is required.
2. Please contact Mandy Roberson, Contract Specialist, at 573-522-0074 or mandy.roberson@oa.mo.gov for questions about bidding procedures, MBE\WBE\SDVE Goals, and other submittal requirements.
3. The deadline for technical questions was Wednesday, July 9, 2025.
4. Changes to, or clarification of, the bid documents are only made as issued in the addenda.
5. All correspondence with respect to this project must include the State of Missouri project number as indicated above.
6. Current Plan holders list available online at <https://www.oafmdcplanroom.com/projects/2928/details/u1805-01>
[Upgrades & Renovations-Missouri Veterans Home-Cape Girardeau :: State of Missouri Office of Administration](#)
7. Prospective Bidders contact American Document Solutions, 1400 Forum Blvd Suite 1C, Columbia MO 65201, 573-446-7768 to order official plans and specifications.
8. **All bids shall be submitted on the bid form without additional terms and conditions, modifications, or stipulations. Each space on the bid form shall be properly filled. Failure to do so will result in rejection of the bid.**
9. **MBE/WBE/SDVE participation requirements can be found in DIVISION 00. The MBE/WBE/SDVE participation goals are 10%/10%/3%, respectively. Only certified firms as of the bid opening date can be used to satisfy the MBE/WBE/SDVE participation goals for this project. If a bidder is unable to meet a participation goal, a Good Faith Effort Determination Form must be completed. Failure to complete this process will result in rejection of the bid.**
10. **The Contractor shall pay not less than the prevailing hourly rate of wages for work of a similar character in the locality in which the work is performed, as determined by the Missouri Department of Labor and Industrial Relations. Bidders are to adhere to Prevailing Wage Hourly Rate of Wages, and the Department of Labor and Industrial Relations can be contacted to determine the applicable wage rate for the work on this project.**

ATTACHMENTS:

1. **Specification Attachments:**

1. Section 064100
2. Section 087100
3. Section 101200
4. Section 323119

2. Drawing Attachments:

1. C-007
2. A-109
3. A-110
4. A-116
5. A-601
6. S-102
7. S-103
8. S-104
9. S-202
10. S-203
11. S-204
12. M-115
13. M-401
14. M-504
15. M-602
16. M-604
17. M-605
18. M-607
19. E-001
20. E-119
21. E-120
22. E-124
23. E-125
24. E-126
25. E-127
26. E-128
27. E-501
28. E-601

July 11, 2025

END ADDENDUM NO. 2

SECTION 06 4100 - ARCHITECTURAL WOOD CASEWORK

PART 1 GENERAL

1.1. SECTION INCLUDES

- A. Specially fabricated cabinet units.
- B. Cabinet hardware.
- C. Preparation for installing utilities.
- D. Wardrobe cabinet mirrors.
- E. Plastic laminate shelving.
- F. Custom Recessed display

1.2. RELATED REQUIREMENTS

- A. Section 08 8000 - Glazing: Glass for casework.
- B. Section 12 3600 - Countertops.

1.3. REFERENCE STANDARDS

- A. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards; 2014, with Errata (2016).
- B. AWMAC/WI (NAAWS) - North American Architectural Woodwork Standards, U.S. Version 3.1; 2016, with Errata (2017).
- C. BHMA A156.9 - American National Standard for Cabinet Hardware; 2015.
- D. NEMA LD 3 - High-Pressure Decorative Laminates; 2005.

1.4. ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Meeting: Convene a preinstallation meeting not less than one week before starting work of this section; require attendance by all affected installers.

1.5. SUBMITTALS

- A. See Section 01 3300 - Submittals for submittal procedures.
- B. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.
 - 1) Scale of Drawings: 1-1/2 inch to 1 foot, minimum.
 - 2) Provide the information required by AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS).
- C. Product Data: Provide data for hardware accessories.

- D. Samples: Submit actual samples of architectural cabinet construction, minimum 8 inches square, illustrating proposed cabinet, countertop, and shelf unit substrate and finish.
- E. Samples: Submit actual sample items of proposed pulls, hinges, shelf standards, and locksets, demonstrating hardware design, quality, and finish.

1.6. QUALITY ASSURANCE

- A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of documented experience.
 - 1) Company with at least one project in the past 5 years with value of woodwork within 20 percent of cost of woodwork for this Project.
- B. Quality Certification:
 - 1) Provide labels or certificates indicating that the installed work complies with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade or grades specified.

1.7. DELIVERY, STORAGE, AND HANDLING

- A. Protect units from moisture damage.

1.8. FIELD CONDITIONS

- A. During and after installation of custom cabinets, maintain temperature and humidity conditions in building spaces at same levels planned for occupancy.

PART 2 PRODUCTS

2.1. CABINETS

- A. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.
- B. Plastic Laminate Faced Cabinets: Custom grade.
- C. Cabinets:
 - 1) Finish - Exposed Exterior Surfaces: Decorative laminate.
 - 2) Finish - Exposed Interior Surfaces: Decorative laminate.
 - 3) Finish - Semi-Exposed Surfaces: Decorative laminate
 - 4) Finish - Concealed Surfaces: Manufacturer's option.
 - 5) Door and Drawer Front Edge Profiles: ~~Square edge with thick applied band.~~ ½ mm or 1 mm band applied.
 - 6) Door and Drawer Front Retention Profiles: Fixed panel.
 - 7) Casework Construction Type: Type A - Frameless.

- 8) Interface Style for Cabinet and Door: Style 1 - Overlay; flush overlay.
- 9) Grained Face Layout for Cabinet and Door Fronts: Flush panel.
 - a. Custom Grade: Doors, drawer fronts and false fronts wood grain to run and match vertically within each cabinet unit.
- 10) Cabinet Design Series: As indicated on drawings.
- 11) Adjustable Shelf Loading: 50 lbs. per sq. ft.
- 12) Cabinet Style: Flush overlay.
- 13) Drawer Side Construction: ~~Multiple dovetail~~ **Dowel Construction**
- 14) Drawer Construction Technique: ~~Dovetail joints~~ **Dowel joints**.

2.2. WOOD-BASED COMPONENTS

- A. Wood fabricated from old growth timber is not permitted.

2.3. LAMINATE MATERIALS

- A. Manufacturers:

- 1) Formica Corporation; <>: www.formica.com/#sle.
- 2) Panolam Industries International, Inc; Nevamar; <>: www.nevamar.com/#sle.
- 3) Panolam Industries International, Inc: www.panolam.com/#sle.
- 4) Wilsonart LLC; <>: www.wilsonart.com/#sle.

- B. Thermally Fused Laminate (TFL): Melamine resin, NEMA LD 3, Type VGL laminate panels.

- C. High Pressure Decorative Laminate (HPDL): NEMA LD 3, types as recommended for specific applications.

- D. Provide specific types as indicated.

- 1) Horizontal Surfaces: HGS, 0.048 inch nominal thickness, <> color, finish as indicated.
- 2) Vertical Surfaces: VGS, 0.028 inch nominal thickness, <> color, finish as indicated.
- 3) Post-Formed Horizontal Surfaces: HGP, 0.039 inch nominal thickness, <> color, finish as indicated.

2.4. COUNTERTOPS

- A. Countertops are specified in Section 12 3600.

2.5. STORAGE ROOM SHELVING

- A. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.

- B. High Pressure Decorative Laminate (HPDL): NEMA LD 3, types as recommended for specific applications.
- C. Horizontal Surfaces: HGS, 0.048 inch nominal thickness, color, finish as indicated.
- D. Plastic Edge Banding: Extruded PVC, flat shaped; smooth finish; self locking serrated tongue; of width to match component thickness.

2.6. RECESSED DISPLAY SHELVING

A. Glazed Hinged Doors:

- 1. 1/4 inch clear tempered glass with polished edges.

2.7. ACCESSORIES

- A. Adhesive: Type recommended by fabricator to suit application.
- B. Plastic Edge Banding: Extruded PVC, convex shaped; smooth finish; self locking serrated tongue; of width to match component thickness.
 - 1) Color: To match face of laminate.
- C. Resident Room Wardrobe Glassless Mirrors:
 - 1) Basis of Design Mirrorlite® / Physical Activity Glassless Mirror.www.gomirrorlite.com
 - 2) Other Acceptable Manufacturers:
 - a. Rose Brand; www.rosebrand.com
 - b. Dulles Glass & Mirror; www.dullesglassandmirror.com
 - 3) Description: Mirror consists of a rigid foam core framed by an aluminum extrusion. The frame has a raised lip around the four edges. A polyester film, metalized on the backside, is stretched across the raised edges to form the mirror surface. Because the film is mounted on raised edges, an air space is created between the back of the film and the core. This air space, 1/8", allows the film to flex under minor impact without damage
 - 4) Size: 16- inches wide x 48-inches high x .75-inches thick.
 - 5) Weight: Approximately 6 oz. per square foot. A 4 ft. x 8 ft. (32 sq. ft.) MirrorLite Mirror weighs 12 lbs.
 - 6) Core Composition: Aluminum foil-faced isocyanurate foam.
 - 7) Frame: Aluminum extrusion-nonflammable.
 - 8) Provide unit with pre-drilled holes and mounting kit.
- D. Fasteners: Size and type to suit application.

2.8. HARDWARE

- A. Hardware: BHMA A156.9, types as recommended by fabricator for quality grade specified.
- B. Adjustable Cabinet Shelf Supports: Standard side-mounted system using recessed metal shelf standards or multiple holes for pin supports and coordinated self rests, satin chrome finish, for nominal 1 inch spacing adjustments.
- C. Adjustable Wall mounted Shelf Supports: Extra duty, double slot back-mounted system using surface mounted metal shelf standards and coordinated cantilevered shelf brackets, satin chrome finish, for nominal 1 inch spacing adjustments. BHMA Grade 2 compliant.
 - 1) Product: 85/185 Series manufactured by Knappe and Vogt. www.knappeandvogt.com
- D. Drawer and Door Pulls: "U" shaped wire pull, steel with satin finish, 4 inch centers.
- E. Sliding Door Pulls: Circular shape for recessed installation, steel with satin finish.
- F. Cabinet Locks: As indicated on drawings
 - 1) Keyed cylinder cam lock, two keys per lock, master keyed, steel with chrome finish.
 - a. Product: C3186 5/8" double bitted Cam Lock manufactured by CompX Chicago.
 - 2) Combination / Keyed cylinder cam lock, two keys per lock, master keyed, steel with polished nickel finish.
 - a. Product: Combi-Cam Ultra, 7440S manufactured by Combi-Cam.
- G. Catches: Magnetic.
- H. Drawer Slides:
 - 1) Type: Full extension.
 - 2) Static Load Capacity: Commercial grade.
 - 3) Mounting: Side mounted.
 - 4) Stops: Integral type.
 - 5) Features: Provide self closing/stay closed type.
 - 6) Manufacturers:
 - a. Accuride International, Inc; <>: www accuride.com/#sle.
 - b. Grass America Inc; Dynapro: www.grassusa.com/#sle.
 - c. Knappe & Vogt Manufacturing Company; <>: www.knappeandvogt.com/#sle.
- I. Drawer Systems: Integrated drawer slide and side.
 - 1) Side Type: Double Wall.

- 2) Drawer Side Height: 4-3/4 inches.
 - 3) Drawer Length: 18 inch.
 - 4) Extension Type: Full extension with overtravel.
 - 5) Static Load Capacity: Heavy Duty grade.
 - 6) Mounting: Side mounted.
 - 7) Stops: Integral type.
 - 8) Features: Provide self closing/stay closed and metallic finish type.
- J. Hinges: European style concealed self-closing type, steel with satin finish.
- 1) Manufacturers:
 - a. Grass America Inc; TEC Soft-Close: www.grassusa.com/#sle.
 - b. Hettich America, LP; <>: www.hettich.com/#sle.
 - c. Blum, Inc; <>: www.blum.com/#sle.
- K. Recessed Display Case Glass Shelf Support : adjustable in 1 inch increments along entire length of standard, drilled and countersunk for screws.
- 1) Shelf Support, For glass shelves, for screw fixing into drill hole Ø 5 mm
 - 2) Steel, load-bearing capacity 80 kg (in compliance with DIN EN 1727:1998-06), with lip, Nickel plated.
- L. Recessed Display Case Hardware:
- 1) Frameless Pivot Hinges: Satin Chrome Flush Mount Cabinet Pivot Hinges.
 - 2) Lock: Glass door cylinder lock. Chrome Single Glass Door Lock - Randomly Keyed
- M. Sliding Door Track Assemblies: Upper and lower track of satin anodized aluminum, with matching shoe equipped with nylon rollers.

2.9. FABRICATION

- A. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.
- B. Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.
- C. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and site cutting.

- D. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises. Locate counter butt joints minimum 2 feet from sink cut-outs.
- 1) Apply laminate backing sheet to reverse side of plastic laminate finished surfaces.
 - 2) Cap exposed plastic laminate finish edges with material of same finish and pattern.
- E. ~~Matching Wood Grain: Comply with requirements of quality standard for specified Grade and as follows:~~
- 1) ~~Provide center matched panels at each elevation.~~
 - 2) ~~Provide sequence matching across each elevation.~~
 - 3) ~~Carry figure of cabinet fronts to toe kicks.~~
- F. Mechanically fasten back splash to countertops as recommended by laminate manufacturer at 16 inches on center.
- G. Provide cutouts for plumbing fixtures. Verify locations of cutouts from on-site dimensions. Prime paint cut edges.
- H. Shop glaze glass materials using the Interior Dry method as specified in Section 08 8000.

PART 3 EXECUTION

3.1. EXAMINATION

- A. Verify adequacy of backing and support framing.
- B. Verify location and sizes of utility rough-in associated with work of this section.

3.2. INSTALLATION

- A. Install work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade indicated.
- B. Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.
- C. Use fixture attachments in concealed locations for wall mounted components.
- D. Use concealed joint fasteners to align and secure adjoining cabinet units.
- E. Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim for this purpose.
- F. Secure cabinets to floor using appropriate angles and anchorages.

3.3. ADJUSTING

- A. Adjust installed work.
- B. Adjust moving or operating parts to function smoothly and correctly.

3.4. CLEANING

- A. Clean casework, counters, shelves, hardware, fittings, and fixtures.

END OF SECTION

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 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes commercial door hardware for the following:
 - 1. Swinging doors.
 - 2. Sliding doors.
 - 3. Other doors to the extent indicated.
- B. Door hardware includes, but is not necessarily limited to, the following:
 - 1. Mechanical door hardware.
 - 2. Electromechanical door hardware.
 - 3. Automatic operators.
 - 4. Cylinders specified for doors in other sections.
- C. Related Sections:
 - 1. Division 08 Section "Hollow Metal Doors and Frames".
 - 2. Division 08 Section "Flush Wood Doors".
 - 3. Division 08 Section "Aluminum-Framed Entrances and Storefronts.
 - 4. Division 08 Section "Sliding Automatic Entrances".
- D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
 - 1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
 - 2. ICC/IBC - International Building Code.
 - 3. NFPA 70 - National Electrical Code.
 - 4. NFPA 80 - Fire Doors and Windows.
 - 5. NFPA 101 - Life Safety Code.
 - 6. NFPA 105 - Installation of Smoke Door Assemblies.
 - 7. UL/ULC and CSA C22.2 - Standards for Automatic Door Operators Used on Fire and Smoke Barrier Doors and Systems of Doors.
 - 8. State Building Codes, Local Amendments.

- E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:

1. ANSI/BHMA Certified Product Standards - A156 Series.
2. UL10C - Positive Pressure Fire Tests of Door Assemblies.
3. ANSI/UL 294 - Access Control System Units.
4. UL 305 - Panic Hardware.
5. ANSI/UL 437- Key Locks.

1.3 SUBMITTALS

- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.
- B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing, fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
 2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
 3. Content: Include the following information:
 - a. Type, style, function, size, label, hand, and finish of each door hardware item.
 - b. Manufacturer of each item.
 - c. Fastenings and other pertinent information.
 - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - e. Explanation of abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for door hardware.
 - g. Door and frame sizes and materials.
 - h. Warranty information for each product.
 4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
- C. Shop Drawings: Details of electrified access control hardware indicating the following:

1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:
 - a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
 - b. Complete (risers, point-to-point) access control system block wiring diagrams.
 - c. Wiring instructions for each electronic component scheduled herein.
 2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.
- D. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.
- E. Informational Submittals:
1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

1.4 CLOSEOUT SUBMITTALS

- A. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.
1. Maintenance manual must be provided for tornado/hurricane storm shelter impact protective systems.
- B. Project Record Documents: Provide record documentation of as-built door hardware sets in digital format (.pdf, .docx, .xlsx, .csv) and as required in Division 01, Project Record Documents.
- C. Project Record Documents: Provide record documentation of as-built door hardware sets in digital format (.pdf, .docx, .xlsx, .csv) or acceptable integrated file format for updating of Openings Studio™ management software and as required in Division 01, Project Record Documents.

1.5 QUALITY ASSURANCE

- A. **Manufacturers Qualifications:** Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.
- B. **Certified Products:** Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).
- C. **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.
- D. **Door Hardware Supplier Qualifications:** Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.
- E. **Source Limitations:** Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.
 - 1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
 - 2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.
- F. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.
- G. **Keying Conference:** Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:
 - 1. Function of building, purpose of each area and degree of security required.
 - 2. Plans for existing and future key system expansion.
 - 3. Requirements for key control storage and software.
 - 4. Installation of permanent keys, cylinder cores and software.
 - 5. Address and requirements for delivery of keys.
- H. **Pre-Submittal Conference:** Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.

1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
 2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
 3. Review sequence of operation narratives for each unique access controlled opening.
 4. Review and finalize construction schedule and verify availability of materials.
 5. Review the required inspecting, testing, commissioning, and demonstration procedures
- I. At completion of installation, provide written documentation that components were applied according to manufacturer's instructions and recommendations and according to approved schedule.

1.6 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".

1.7 COORDINATION

- A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.
- B. 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.
- C. 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.

1.8 WARRANTY

- A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:
 - 1. Structural failures including excessive deflection, cracking, or breakage.
 - 2. Faulty operation of the hardware.
 - 3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
 - 4. Electrical component defects and failures within the systems operation.
- C. Warranty Period: Unless otherwise indicated, warranty shall be one year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

- A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.
- B. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:
 - 1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.
- C. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

2.2 BUTT HINGES

- A. Hinges: ANSI/BHMA A156.1 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: With the exception of electric through wire hinges, 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.
- 5. Manufacturers:
 - a. Hager Companies (HA) - BB Series, 5-knuckle.
 - b. McKinney (MK) - TA/T4A Series, 5-knuckle.
 - c. dormakaba BEST (ST) - F/FBB Series, 5-knuckle.

2.3 SLIDING AND FOLDING HARDWARE

- A. Sliding and Folding Door Hardware: Hardware is to be of type and design as specified and should conform with ANSI/BHMA A156.14.
 - 1. Sliding Bi-Passing Pocket Door Hardware: Provide complete sets consisting of track, hangers, stops, bumpers, floor channel, guides, and accessories indicated.
 - 2. Manufacturers:
 - a. Hafele Manufacturing (HF).
 - b. Johnson Hardware (JO).
 - c. Pemko (PE).

2.4 POWER TRANSFER DEVICES

- A. Concealed Quick Connect Electric Power Transfers: Provide concealed wiring pathway housing mortised into the door and frame for low voltage electrified door hardware. Furnish with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to

accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.

1. Manufacturers:

- a. Architectural Builders Hardware (AH) - PT1000-EZ Series.
- b. Pemko (PE) - EL-CEPT Series.
- c. Securitron (SU) - EL-CEPT Series.

- B. Electric Door Wire Harnesses: Provide electric/data transfer wiring harnesses with standardized plug connectors to accommodate up to twelve (12) wires. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Provide sufficient number and type of concealed wires to accommodate electric function of specified hardware. Provide a connector for through-door electronic locking devices and from hinge to junction box above the opening. Wire nut connections are not acceptable. Determine the length required for each electrified hardware component for the door type, size and construction, minimum of two per electrified opening.

1. Provide one each of the following tools as part of the base bid contract:

- a. McKinney (MK) - Electrical Connecting Kit: QC-R001.
- b. McKinney (MK) - Connector Hand Tool: QC-R003.

2. Manufacturers:

- a. Hager Companies (HA) - Quick Connect.
- b. McKinney (MK) - QC-C Series.
- c. dormakaba BEST (ST) - WH Series.

2.5 DOOR OPERATING TRIM

- A. Flush Bolts and Surface Bolts: Provide products conforming to ANSI/BHMA A156.3 and A156.16, Grade 1.

- 1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.
- 2. Furnish dust proof strikes for bottom bolts.
- 3. Surface bolts to be minimum 8" in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.
- 4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.
- 5. Manufacturers:

- a. Burns Manufacturing (BU).
- b. Rockwood (RO).
- c. Trimco (TC).

- B. Door Push Plates and Pulls: ANSI/BHMA A156.6 door pushes and pull units of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.
1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
 2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
 3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
 4. Pulls, where applicable, shall be provided with a 10" clearance from the finished floor on the push side to accommodate wheelchair accessibility.
 5. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets. When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
 6. Manufacturers:
 - a. Burns Manufacturing (BU).
 - b. Rockwood (RO).
 - c. Trimco (TC).

2.6 CYLINDERS AND KEYING

- A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.
1. Manufacturers:
 - a. .dormakaba BEST (BE)
 - b. Sargent Manufacturing (SA)
 - c. Schlage (SC)
- B. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:
1. Threaded mortise cylinders with rings and cams to suit hardware application.
 2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
 3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
 4. Tubular deadlocks and other auxiliary locks.
 5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
 6. Keyway: Manufacturer's Standard.
- C. Large Format Interchangeable Cores: Provide Large format interchangeable cores (LFIC) as specified, core insert, removable by use of a special key; usable with other manufacturers' cylinders.

- D. Keying System: Each type of lock and cylinders to be factory keyed.
1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
 2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
 3. Existing System: Field verify and key cylinders to match Owner's existing system.
- E. Key Quantity: Provide the following minimum number of keys:
1. Change Keys per Cylinder: Two (2)
 2. Master Keys (per Master Key Level/Group): Five (5).
 3. Construction Keys (where required): Ten (10).
- F. Construction Keying: Provide construction master keyed cylinders.
- G. Construction Keying: Provide temporary keyed construction cores.
- H. Key Registration List (Bitting List):
1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
 2. Provide transcript list in writing or electronic file as directed by the Owner.

2.7 CYLINDRICAL LOCKS AND LATCHING DEVICES

- A. Cylindrical Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.2, Series 4000, Operational Grade 1 Certified Products Directory (CPD) listed cylindrical locksets. Listed manufacturers shall meet all functions and features as specified herein.
1. Provide locksets with functions and features as follows:
 - a. Meets ANSI/BHMA A156.41 for single motion egress.
 - b. Where required by code, provide knurling or abrasive coating on all levers leading to hazardous areas.
 - c. Meets UL and CUL Standard 10C Positive Pressure, Fire Test of Door Assemblies with levers that meet A117.1 Accessibility Code.
 - d. Extended cycle test: Locks to have been cycle tested in ordinance with ANSI/BHMA 156.13 requirements to 20 million cycles or greater.
 - e. Exceeds ANSI/BHMA A156.2 requirements by 2.6 times for 3,100 in-lb. abusive locked lever torque with no entry while maintaining egress.
 - f. Exceeds ANSI/BHMA A156.2 requirements by 8 times for 1,600 lbs. offset lever pull with no entry for protection against attacks.
 - g. Exceeds ANSI/BHMA A156.3 requirements by 2 times for latch retraction with 100 lb. preload while maintaining operation in warped doors.
 - h. Exceeds ANSI/BHMA A156.3 requirements by 20 times for no access with minimum 100 vertical impacts for protection against vandalism attempts.
 - i. Independent return springs allow lock to exceed ANSI/BHMA A156.2 Grade 1 cycle requirements without lever sag.

- j. Ten-year limited warranty for mechanical functions.

2. Manufacturers:

- a. DormaKaba BEST (BE) – 9K.
- b. Sargent Manufacturing (SA) - 10X Line.
- c. Schlage (SC) – ND.

B.

2.8 DEADLOCKS AND LATCHES

- A. Cylindrical Deadlocks: ANSI/BHMA A156.36 Grade 1 Certified Products Directory (CPD) listed deadlocks to fit standard ANSI 161 preparation. Provide tapered collars to resist vandalism and 1" throw solid steel bolt with hardened steel roller pins. Deadlocks to be products of the same source manufacturer and keyway as other locksets.

1. Manufacturers:

- a. dormakaba BEST (BE) - T Series.
- b. Sargent Manufacturing (SA) - 480 Series.
- c. Schlage (SC) - B600 Series.

2.9 LOCK AND LATCH STRIKES

- A. 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:

- 1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
- 2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
- 3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
- 4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.

B. Standards: Comply with the following:

- 1. Strikes for Mortise Locks and Latches: BHMA A156.13.
- 2. Strikes for Bored Locks and Latches: BHMA A156.2.
- 3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
- 4. Dustproof Strikes: BHMA A156.16.

2.10 ELECTROMAGNETIC LOCKING DEVICES

- A. Surface Electromagnetic Locks (Heavy Duty): Electromagnetic locks to be surface mounted type conforming to ANSI A156.23, Grade 2 with minimum holding force strength of 1,200 pounds. Locks to be capable of accepting between 12 to 24 volts direct current and be UL listed

for use on fire rated door assemblies. Electromagnetic coils are to consume no more than 1.5W during normal operation. Locks are to have an integrated door position switch, tamper switch, and lock bond sensor. Locks are to have integrated motion sensor and/or security camera as indicated in the hardware sets. Locks to be capable of detecting door prop conditions and entering low power mode. Provide mounting accessories as needed to suit opening conditions. Power supply to be by the same manufacturer as the lock with combined products having a lifetime replacement warranty.

1. Manufacturers:
 - a. Securitron (SU) - M680E Series.

2.11 CONVENTIONAL EXIT DEVICES

A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:

1. Exit devices shall have a five-year warranty.
2. 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.
3. 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.
4. 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.
5. 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.
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.
 - b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.
7. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
8. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.
9. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
10. Rail Sizing: Provide exit device rails factory sized for proper door width application.
11. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.

- B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed exit devices. Listed manufacturers shall meet all functions and features as specified herein.

1. Electromechanical exit devices shall have the following functions and features:
 - a. Universal Molex plug-in connectors that have standardized color-coded wiring and are field configurable in fail safe or fail secure and operate from 12vdc to 24vdc regulated.
 - b. EcoFlex or equivalent technology that reduces energy consumption up to 92% as certified by GreenCircle.
 - c. Options to be available for request-to-exit or enter signaling, latchbolt and touchbar monitoring.
 - d. Field configurable electrified trim to fail-safe or fail-secure that operates from 12-24VDC.
 - e. Five-year limited warranty for electromechanical features.
2. Manufacturers:
 - a. Dormakaba BEST (BE) - APEX Series.
 - b. Sargent Manufacturing (SA) - 80 Series.
 - c. VonDuprin (VD) – 33/35 – 98/99 Series.

2.12 DOOR CLOSERS

- A. All door closers specified herein shall meet or exceed the following criteria:
1. 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.
 2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
 3. 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 Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.
 4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
 5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
 6. 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. Door Closers, Surface Mounted (Large Body Cast Iron): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece

cast iron body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control.

1. Manufacturers:
 - a. LCN Closers (LC) - 4040XP Series.
 - b. Norton Rixson (NO) - 9500 Series.
 - c. Sargent Manufacturing (SA) - 281 Series.

2.13 ELECTROMECHANICAL DOOR OPERATORS

- A. Electromechanical Door Operators (Moderate Traffic): Provide ANSI/BHMA A156.19 Certified Products Directory (CPD) listed low energy operators that are UL325/991 and UL10C certified and comply with requirements for the Americans with Disabilities Act (ADA). Operators shall accommodate openings up to 200 pounds and 48" wide.

1. Provide operators with features as follows:
 - a. Non-handed with push and pull side mounting.
 - b. Activation by push button, hands-free or radio frequency devices.
 - c. Adjustable opening force and closing power.
 - d. Two-year limited warranty.
 - e. Wi-Fi interface where the operator is a secure, password protected WiFi hot spot with no connection to building's IT required.
 - 1) Simple setup with no app required.
 - 2) View status and make adjustments without removing the cover.
 - 3) Built-in logic to support single use restroom applications with no external relay boards, logic modules, position switches required.
 - f. Mounting backplate to simplify and speed up installation.
2. Operators shall have the following functionality:
 - a. Adjustable Hold Open: Amount of time a door will stay in the full open position after an activation.
 - b. Emergency Interface Relay: Door closes and ignores any activation input until signal is discontinued.
 - c. Infinite Hold Open: Door will hold open at set position until power is turned off.
 - d. Latch Assist: At closed position, after an activation, the door is pulled in. After the door has closed, the door is pulled in to assist with latch release/engagement.
 - e. Obstruction Detection: Door closes if it hits an obstruction while opening; door will reverse to open position if it hits an obstruction while closing. Door will stop once it hits an obstruction and will rest against the obstruction until removed.
 - f. Open Delay: Delays operator opening for locking hardware.
 - g. Outside Wall Switch Disable: When contact is closed, outside wall switch is disabled.
 - h. Power Assist: Senses the door is being opened manually and applies small amount of power to assist the user in opening the door with force less than 5 lbs. The door opens only as far as it is moved manually, then closes once released.
 - i. Power Close: Additional force to assist door closing between 7° and 2°.

- j. Push & Go: As the door is manually opened, the operator "senses" movement and opens door to the full-open position.
 - k. Selector Mode Switch: Off disables the signal inputs, on activates the signal inputs, hold open activates the unit to the hold open position.
 - l. Vestibule Delay: When the wall switch is pressed, first door in vestibule will open the second door will open once vestibule door delay has expired. Delay shall be adjustable.
 - m. Executive Mode Feature: When the door receives an activation signal it opens and remains open until either a second signal is received, or the door is manually moved in closing direction.
3. Manufacturers:
- a. ASSA ABLOY Entrance Systems (BE) - SW100 Series.
 - b. LCN (LC) - 9530/9540 Series.
 - c. Norton Rixson (NO) - 6200 Series.

2.14 SURFACE MOUNTED CLOSER HOLDERS

- A. Electromagnetic Door Holders: ANSI A156.15 electromagnetic door holder/releases with a minimum 20 to 40 pounds holding power and single coil construction able to accommodate 12VDC, 24VAC, 24VDC and 120VAC. Coils to be independently wound, employing an integral fuse and armatures to include a positive release button.
1. Manufacturers:
- a. LCN Door Closers (LC) - SEM7800 Series.
 - b. Norton Rixson (RF) - 980/990 Series.
 - c. Sargent Manufacturing (SA) - 1560 Series.

2.15 ARCHITECTURAL TRIM

A. Door Protective Trim

- 1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.
- 2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1" LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.
- 3. Where plates are applied to fire rated doors with the top of the plate more than 16" above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer's catalog and template book for specific requirements for size and applications.
- 4. Protection Plates: ANSI/BHMA A156.6 protection plates (kick, armor, or mop), fabricated from the following:
 - a. Stainless Steel: 300 grade, .050-inch thick.

5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.
6. Manufacturers:
 - a. Burns Manufacturing (BU).
 - b. Rockwood (RO).
 - c. Trimco (TC).

2.16 DOOR STOPS AND HOLDERS

- A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.
- B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.
 1. Manufacturers:
 - a. Burns Manufacturing (BU).
 - b. Rockwood (RO).
 - c. Trimco (TC).
- C. Overhead Door Stops and Holders: ANSI/BHMA A156.8, Grade 1 Certified Products Directory (CPD) listed overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.
 1. Manufacturers:
 - a. Norton Rixson (RF).
 - b. Rockwood (RO).
 - c. Sargent Manufacturing (SA).

2.17 ARCHITECTURAL SEALS

- A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the 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.
- B. 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.
 1. 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 NFPA 252, Standard Methods of Fire Tests of Door Assemblies.
- D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.
- E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.
- F. Manufacturers:
 - 1. National Guard Products (NG).
 - 2. Pemko (PE).
 - 3. Reese Enterprises, Inc. (RE).

2.18 ELECTRONIC ACCESSORIES

- A. Key Switches: Key switches furnished standard with stainless steel single gang face plate with a 12/24VDC bi-color LED indicator. Integral backing bracket permits integration with any 1 1/4" or 1 1/2" mortise type cylinder. Key switches available as momentary or maintained action and in narrow face plate options.
 - 1. Manufacturers:
 - a. Alarm Controls (AK) - MCK Series.
 - b. Security Door Controls (SD) - 800 Series.
 - c. Securitron (SU) - MK Series.
- B. Door Position Switches: Door position magnetic reed contact switches specifically designed for use in commercial door applications. On recessed models the contact and magnetic housing snap-lock into a 1" diameter hole. Surface mounted models include wide gap distance design complete with armored flex cabling. Provide SPDT, N/O switches with optional Rare Earth Magnet installation on steel doors with flush top channels.
 - 1. Manufacturers:
 - a. Sargent Manufacturing (SA) - 3280 Series.
 - b. Security Door Controls (SD) - DPS Series.
 - c. Securitron (SU) - DPS Series.
- C. Switching Power Supplies: Provide power supplies with either single or dual voltage configurations at 12 or 24VDC. Power supplies shall have battery backup function with an integrated battery charging circuit and shall provide capability for power distribution, direct lock control and Fire Alarm Interface (FAI) through add on modules. Power supplies shall be

expandable up to 16 individually protected outputs. Output modules shall provide individually protected, continuous outputs and/or individually protected, relay controlled outputs.

1. Manufacturers:

- a. Securitron (SU) - AQD Series.
- b. Altronix (AS) - Maximal 3.
- c. VonDuprn (VD) – PS Series

2.19 FABRICATION

- A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.20 FINISHES

- A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.
- B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware
- C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

- A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.
- B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

- A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.
 - 1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.
- B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
 - 1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
 - 2. DHI TDH-007-20: Installation Guide for Doors and Hardware.
 - 3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
 - 4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.
- C. Retrofitting: Install door hardware to comply with manufacturer's published templates and 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 specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.
- D. Push Plates and Door Pulls: When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
- E. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."
- F. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 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.

3.5 CLEANING AND PROTECTION

- A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.
- B. Clean adjacent surfaces soiled by door hardware installation.
- C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.6 DEMONSTRATION

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

3.7 DOOR HARDWARE SETS

- A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.
 - 1. Quantities listed are for each pair of doors, or for each single door.
 - 2. The supplier is responsible for handing and sizing all products.
 - 3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
- B. Manufacturer's Abbreviations:
 - 1. MK - McKinney
 - 2. OT - Other
 - 3. PE - Pemko
 - 4. RO - Rockwood
 - 5. SA - SARGENT
 - 6. SU - Securitron
 - 7. RF - Rixson
 - 8. NO - Norton

Hardware Sets

Set: 1.0

Doors: 001C

-

4 Hinge (heavy weight) ++	T4A3386-USA (NRP and Size as Required)	US32D MK 087100
1 Magnetic Lock w/REX **	M680EBDX	630 SU 087100
1 Rim Exit Device (NL, CD) ++	16 43 8804 Less Pull	US32D SA 087100
2 LFIC Core **	Keyed per Owner's Direction	US15 SA 087100
2 Cylinder ++	type as required	US32D SA 087100
1 Offset Door Pull ++	TBF157	US32D RO 087100
1 Automatic Opener ++	6211 / 6231 (As Required)	689 NO 087113
1 Sweep **	3452CNB x Length Required	PE 087100
1 Threshold ++	273x3AFG-MSES25SS x Length Required	PE 087100
1 Keyswitch **	MKA	SU 087100
2 Auto Operator Actuator Switch **	505	NO 087100
1 Power Supply **	AQD (Size and Options as required)	SU 087100
1 Wiring Diagram	Elevation and Point to Point as Specified	OT

-

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Coordinate all Wiring and conduit with electrical contractor.

Operation:

Day Time Operation:

- The exit device latch is normally dogged to allow push/pull operation. Key switch is in the "OFF" position, the magnetic lock is not engaged, allowing manual Push/Pull operation or assisted entry and egress with by pressing the auto operator actuator.
- Cylinder Dogging will hold the latch in the retracted position (Dogged) allowing PUSH/PULL operation.
- Key Switch in the Vestibule will turn the magnetic lock ON/OFF as required.
- Magnetic lock is Fail Safe and will be released to allow free entry or egress in the event of a fire emergency or power outage.

Night Time Operation:

- The exit device latch is normally dogged to allow push/pull operation. Key switch is in the "ON" position engaging the magnetic lock, securing the door and shunting the auto operator actuator switches.
- Cylinder Dogging will hold the latch in the retracted position (Dogged) allowing PUSH/PULL operation, door is secured with the magnetic lock.

- ~~Door Position Switch integrated in the magnetic lock will monitor the doors OPEN/CLOSED status.~~
- ~~Key Switch in the Vestibule will turn the magnetic lock ON/OFF as required.~~
- ~~Magnetic lock is Fail Safe and will be released to allow free entry or egress in the event of a fire emergency or power outage.~~

Set: 1.0

Doors: 001C

4 Hinge (heavy weight) ++ MK	<u>T4A3386-USA (NRP and Size as Required)</u> 087100		US32D
1 Magnetic Lock w/REX **	<u>M680EBDX</u>	630	SU 087100
1 Rim Exit Device (NL, CD) ++	<u>16 43 8804 Less Pull</u>	US32D	SA 087100
2 LFIC Core **	<u>Keyed per Owner's Direction</u>	US15	SA 087100
2 Cylinder ++	<u>type as required</u>	US32D	SA 087100
1 Offset Door Pull ++	<u>TBF157</u>	US32D	RO 087100
1 Automatic Opener ++	<u>6211 / 6231 (As Required)</u>	689	NO 087100
1 Sweep **	<u>3452CNB x Length Required</u>		PE 087100
1 Threshold ++ 087100	<u>273x3AFG MSES25SS x Length Required</u>		PE
1 Keyswitch **	<u>MKA</u>		SU 087100
2 Auto Operator Actuator Switch **	<u>505</u>		NO 087100
1 Power Supply **	<u>AQD (Size and Options as required)</u>		SU 087100
1 Wiring Diagram	Elevation and Point to Point as Specified		OT

Notes: ++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Coordinate all Wiring and conduit with electrical contractor.

Operation:

- The exit device latch is normally dogged to allow push/pull operation. Cylinder Dogging will hold the latch in the retracted position (Dogged) allowing PUSH/PULL operation.
- On the Pull Side, presenting a valid credential to the card reader, will release the magnetic lock and activate the exterior auto operator actuator to allow authorized manual or assisted entry.
- Egress from the vestibule is always available by the Request to Exit sensor integrated in the magnetic lock releasing the magnetic lock when motion is detected near the push side of the door, or via the vestibule auto operator actuator, when the actuator is pressed the magnetic lock will release and the auto operator will open the door.
- Magnetic lock is Fail Safe and will be released to allow free entry or egress in the event of a fire emergency or power outage.
- Door Position Switch integrated in the magnetic lock will monitor the doors OPEN/CLOSED status.
- An Emergency Egress Push Button mounted on the Push (Patio Side) of the opening will release the magnetic lock should the Request To Exit Fail.

Set: 2.0

Doors: ~~A222B~~, ~~A222C~~

-

3 Hinge (heavy weight) ++	T4A3386 USA (NRP and Size as Required)	US32D	MK	087100
1 Magnetic Lock w/REX **	M680EBDX	630	SU	087100
1 Rim Exit Device (NL, CD) ++	16 43 8804 Less Pull	US32D	SA	087100
2 LFIC Core **	Keyed per Owner's Direction	US15	SA	087100
2 Cylinder ++	type as required	US32D	SA	087100
1 Offset Door Pull ++	TBF157	US32D	RO	087100
1 Surface Closer **	UNI9500 (HD PA SPG STP Arm)	689	NO	087100
1 Kick Plate ++	K1050 10" high BEV CSK	US32D	RO	087100
1 Gasketing ++	312CR (Head & Jambs)	PE		087100
1 Rain Guard **	346C x Width of Frame Head	PE		087100
1 Sweep **	3452CNB x Length Required	PE		087100
1 Threshold ++	273x3AFG MS25SS x Length Required	PE		087100
1 ElectroLynx Harness (Frame) **	QC C3000P	MK		087100
2 Key Pad **	Linear Keypad	OT		
1 Power Supply **	AQD (Size and Options as required)	SU		087100
1 Wiring Diagram	Elevation and Point to Point as Specified	OT		

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Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Coordinate all Wiring and conduit with electrical contractor.

Operation:

- The exit device latch is normally dogged to allow push/pull operation. the magnetic lock is engaged, securing the door.
- Cylinder Dogging will hold the latch in the retracted position (Dogged) allowing PUSH/PULL operation when magnetic lock is not engaged.
- Entering the correct code into the key pad will release the magnetic lock and allow it to remain disengaged until the correct digital code is re-entered securing the door by re-engaging the magnetic lock.
- Door Position Switch integrated in the magnetic lock will monitor the doors OPEN/CLOSED status.
- Magnetic lock is Fail Safe and will be released to allow free entry or egress in the event of a fire emergency or power outage.

Set: 2.0

Doors: A222B, A222C

3 Hinge (heavy weight) ++ MK	<u>T4A3386-USA (NRP and Size as Required)</u> 087100		US32D
1 Magnetic Lock w/REX **	<u>M680EBDX</u>	630	SU 087100
1 Rim Exit Device (NL, CD) ++	<u>16 43 8804 Less Pull</u>	US32D	SA 087100
2 LFIC Core **	<u>Keyed per Owner's Direction</u>	US15	SA 087100
2 Cylinder ++	<u>type as required</u>	US32D	SA 087100
1 Offset Door Pull ++	<u>TBF157</u>	US32D	RO 087100
1 Surface Closer **	<u>UNI9500 (HD PA SPG STP Arm)</u>	689	NO 087100
1 Kick Plate ++	<u>K1050 10" high BEV CSK</u>	US32D	RO 087100
1 Gasketing ++	<u>312CR (Head & Jambs)</u>		PE 087100
1 Rain Guard **	<u>346C x Width of Frame Head</u>		PE 087100
1 Sweep **	<u>3452CNB x Length Required</u>		PE 087100
1 Threshold ++ 087100	<u>273x3AFG MSES25SS x Length Required</u>		PE
1 ElectroLynx Harness (Frame) **	<u>QC-C3000P</u>		MK 087100
2 Key Pad **	Linear Keypad		OT
1 Power Supply **	<u>AQD (Size and Options as required)</u>		SU 087100
1 Wiring Diagram	Elevation and Point to Point as Specified		OT

Notes: ++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Coordinate all Wiring and conduit with electrical contractor.

Operation:

- The exit device latch is normally dogged to allow push/pull operation. the magnetic lock is engaged, securing the door.
- Cylinder Dogging will hold the latch in the retracted position (Dogged) allowing PUSH/PULL operation when magnetic lock is not engaged.
- Entering the correct code into the key pad on either side of the opening, will release the magnetic lock and allow it to remain disengaged until the correct digital code is re-entered securing the door by re-engaging the magnetic lock.
- Door Position Switch integrated in the magnetic lock will monitor the doors OPEN/CLOSED status.
- Magnetic lock is Fail Safe and will be released to allow free entry or egress in the event of a fire emergency or power outage.

Set: 3.0

Notes: NOT USED

Set: 4.0

Doors: A223

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3 Hinge (heavy weight) ++	T4A3386-USA (NRP and Size as	US32D	MK 087100
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	<u>Required)</u>			
1 Classroom Lock ++	<u>BAA 10XG37 LL</u>	US26D	SA	087100
1 LFIC Core **	<u>Keyed per Owner's Direction</u>	US15	SA	087100
1 Surface Closer (Tri Pack) **	<u>9500 (RA or PA Arm as Required)</u>	689	NO	087100
1 Kick Plate ++	<u>K1050 10" high BEV CSK</u>	US32D	RO	087100
1 Door Stop **	<u>403 (or) 441CU (As Required)</u>	US26D	RO	087100
1 Gasketing ++	<u>312CR (Head & Jambs)</u>		PE	087100
1 Rain Guard **	<u>346C x Width of Frame Head</u>		PE	087100
1 Sweep **	<u>3452CNB x Length Required</u>		PE	087100
1 Threshold ++	<u>172A x Length Required x MSES25SS</u>		PE	087100

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Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Mount Lockset to allow Free egress from the Patio Area at all times.

Set: 4.0

Doors: A223

3 Hinge (heavy weight) ++	<u>T4A3386-USA (NRP and Size as Required)</u>	US32D		
MK	087100			
1 Classroom Lock ++	<u>BAA 10XG37 LL</u>	US26D	SA	087100
1 Magnetic Lock w/REX **	<u>M680EBDX</u>	630	SU	087100
1 LFIC Core **	<u>Keyed per Owner's Direction</u>	US15	SA	087100
1 Surface Closer (Tri-Pack) **	<u>9500 (RA or PA Arm as Required)</u>	689	NO	087100
1 Kick Plate ++	<u>K1050 10" high BEV CSK</u>	US32D	RO	087100
1 Door Stop **	<u>403 (or) 441CU (As Required)</u>	US26D	RO	087100
1 Gasketing ++	<u>312CR (Head & Jambs)</u>		PE	087100
1 Rain Guard **	<u>346C x Width of Frame Head</u>		PE	087100
1 Sweep **	<u>3452CNB x Length Required</u>		PE	087100
1 Threshold ++	<u>172A x Length Required x MSES25SS</u>		PE	087100
1 ElectroLynx Harness (Frame) **	<u>QC-C3000P</u>		MK	087100
1 Card Reader**	Card Reader - by Security Contractor		OT	
1 Emergency Push Button**	Emergency Egress Push Button - by Security Contractor			
OT				
1 Power Supply **	<u>AOD (Size and Options as required)</u>	SU	087100	
1 Wiring Diagram	Elevation and Point to Point as Specified		OT	

Notes: ++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Mount Lockset to allow Free egress from the Patio Area at all times.

Coordinate all Wiring and conduit with electrical contractor.

Operation:

- On the Pull Side, (interior) presenting a valid credential to the card reader, will release the magnetic lock and allow access to the Patio Area.
- Egress from the Patio Area is always available by the Request to Exit sensor integrated in the magnetic lock releasing the magnetic lock when motion is detected near the push side of the door.
- Door Position Switch integrated in the magnetic lock will monitor the doors OPEN/CLOSED status.
- An Emergency Egress Push Button mounted on the Push (Patio Side) of the opening will release the magnetic lock should the Request To Exit Fail.
- Magnetic lock is Fail Safe and will be released to allow free entry or egress in the event of a fire emergency or power outage.

Set: 5.0

Notes: NOT USED

Set: 6.0

Doors: B038

6 Hinge, Full Mortised, Hvy Wt ++	T4A3786-USA (NRP and Size as Required)	US26D MK 087100
2 Magnetic Lock **	M680EBD	630 SU 087100
1 LFIC Core **	Keyed per Owner's Direction	US15 SA 087100
1 Cylinder ++	type as required	US32D SA 087100
2 Push Plate ++	70C-RKW	US32D RO 087100
2 Offset Door Pull ++	TBF157	US32D RO 087100
2 Automatic Opener ++	6211 / 6231 (As Required)	689 NO 087113
2 Armor Plate ++	K1050 30" high CSK BEV	US32D RO 087100
2 Door Stop **	403 (or) 441CU (As Required)	US26D RO 087100
2 Silencer **	608	RO 087100
2 ElectroLynx Harness (Frame) **	QC-C3000P	MK 087100
1 Keyswitch **	MKA	SU 087100
1 Motion Sensor **	XMS	SU 087100
2 Auto Operator Actuator Switch **	505	NO 087100
1 Power Supply **	AQD (Size and Options as required)	SU 087100
1 Wiring Diagram	Elevation and Point to Point as Specified	OT

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Coordinate all Wiring and conduit with electrical contractor.

Operation:

Doors are Secured With Magnetic Locks:

- Wall Mounted Key Switch is "ON", magnetic locks are engaged. No access from the pull side of the door and auto operator actuator push button on the pull side is inactive.
- Egress from the PUSH Side by pressing the auto operator actuator switch to signal the power supply to momentarily release the magnetic locks and activate the auto operators to open the doors for assisted egress.
- Manual Egress from the PUSH side is always available by pushing the doors open. Request to Exit motion sensor on the push side will release the magnetic lock when motion is detected near the push side of the door.
- Door Position Switch integrated in the magnetic lock will monitor the doors OPEN/CLOSED status.
- The magnetic locks are fail safe and will be deactivated in the absence of power to allow free entry or egress.

Doors are Not Secured by Magnetic Locks:

- Wall Mounted Key Switch is "OFF", magnetic locks are Disengaged. Auto operator Actuators on Both PUSH and PULL sides are active.
- Entry or Egress from either Side by pressing the auto operator actuator switch to signal the auto operators to open the doors for assisted entry or egress.
- Manual Entry or Egress from either side is always available by pushing or pulling the doors open.

Set: 7.0

Doors: 018, 040, 043, A100, A200, A300, B100, B200, B300, B400, C001, C100, C200, C300

6 Hinge, Full Mortised, Hvy Wt ++	T4A3786-USA (NRP and Size as Required)	US26D MK 087100
2 Fire Rated SVRod Exit Device (EO, LBR, w, Fire Pin)	12 43 NB8710 EO	630 SA 087100
2 Surface Closer **	9500 (RA or PA Arm as Required)	689 NO 087100
2 Kick Plate ++	K1050 10" high BEV CSK	US32D RO 087100
2 Electromagnetic Holder **	998 x Voltage as Required	689 RF 087100
2 Astragal Edge Guard (Rated) ++	552-AST UL (Door Height & Cut Outs as required)	US32D NG 087100
1 Gasketing ++	S88D (Head & Jambs)	PE 087100

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Operation:

Doors normally held open by electromagnetic holders and will be released to close upon activation of fire alarm.

Power to electromagnetic holders and relay to fire alarm by others.

At Opening 043: Wanderguard Magnetic Locks and System to be installed (by Wanderguard Contractor)
Operation:

Wanderguard Management System (By Wanderguard Contractor) to be installed. All Magnetic locks, power supply and controllers to be provided by Wanderguard supplier.

- When a patient comes within the preset range of the Wanderguard system the magnetic locks will engage preventing a person equipped with a Wanderguard Device from exiting through the door opening.
- Once the person wearing the Wanderguard Device moves away from the door opening, the magnetic locks dis-engage.

Set: 7.1

Doors: A222A

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6 Hinge, Full Mortised, Hvy Wt ++	T4A3786 USA (NRP and Size as Required)	US26D MK 087100
2 Magnetic Lock **	M680EBD	630 SU 087100
2 Fire Rated SVRod Exit Device (EO, LBR, w, Fire Pin)	12 43 NB8710 EO	630 SA 087100
2 Surface Closer **	9500 (RA or PA Arm as Required)	689 NO 087100
2 Kick Plate ++	K1050 10" high BEV CSK	US32D RO 087100
2 Electromagnetic Holder **	998 x Voltage as Required	689 RF 087100
2 Astragal Edge Guard (Rated) ++	552 AST UL (Door Height & Cut Outs as required)	US32D NG 087100
1 Gasketing ++	S88D (Head & Jambs)	PE 087100
1 ElectroLynx Harness (Frame) **	QC C3000P	MK 087100
1 Key Pad **	Linear Keypad	OT
1 Motion Sensor **	XMS	SU 087100
1 Power Supply **	AQD (Size and Options as required)	SU 087100
1 Wiring Diagram	Elevation and Point to Point as Specified	OT

-

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Coordinate all Wiring and conduit with electrical contractor.

Operation:

Doors can be held open by electromagnetic holders and will be released to close upon activation of fire alarm.

Power to electromagnetic holders and relay to fire alarm by others.

When doors are closed and secure:

- The doors are secured by Magnetic Lock.
- On the Secure Side of the opening a correct code entered into the keypad, will release the magnetic locks allowing authorized entry by pushing the exit device push bar in the direction of travel.
- Manual Egress from the unsecured side is always available by pressing the exit device push bar in the Direction of Travel. Request to Exit sensor will release the magnetic lock when motion is detected near the push side of the door on the unsecure side of the opening.
- Door Position Switches integrated in the magnetic lock will monitor the doors OPEN/CLOSED status.
- Magnetic locks are Fail Safe and will be released to allow free entry or egress in the event of a fire emergency or power outage.

Set: 7.1

Doors: 043, A222A

6 Hinge, Full Mortised, Hvy Wt ++	T4A3786-USA (NRP and Size as Required)	US26D
MK	087100	
2 Magnetic Lock **	M680EBD	630 SU 087100
2 Fire Rated SVRod Exit Device (EO, LBR, w, Fire Pin)	12 43 NB8710 EO	
630	SA	087100
2 Surface Closer **	CLP9500 (HD PA STP Arm)	689 NO 087100
2 Kick Plate ++	K1050 10" high BEV CSK	US32D RO 087100
2 Electromagnetic Holder **	998 x Voltage as Required	689 RF 087100
1 Astragal Edge Guard (Rated) ++	306-AST UL (Door Height & Cut Outs as required))	US32D
RO	087100	
1 Gasketing ++	S88D (Head & Jambs)	PE 087100
1 ElectroLynx Harness (Frame) **	QC-C3000P	MK 087100
1 Key Pad **	Linear Keypad	OT
1 Motion Sensor **	XMS	SU 087100
1 Power Supply **	AQD (Size and Options as required)	SU 087100
1 Wiring Diagram	Elevation and Point to Point as Specified	OT

Notes: ++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Coordinate all Wiring and conduit with electrical contractor.

Operation:

Doors normally held open by electromagnetic holders and will be released to close upon activation of fire alarm.

Power to electromagnetic holders and relay to fire alarm by others.

When Doors are Secure:

- The doors are secured by Magnetic Lock.
- On the Secure Side of the opening a correct code entered into the keypad, will release the magnetic locks allowing authorized entry by pushing the exit device push bar in the direction of travel.
- Manual Egress from the unsecured side is always available by pressing the exit device push bar in the Direction of Travel. Request to Exit sensor will release the magnetic lock when motion is detected near the push side of the door on the unsecure side of the opening.

- Door Position Switches integrated in the magnetic lock will monitor the doors OPEN/CLOSED status.
- Magnetic locks are Fail Safe and will be released to allow free entry or egress in the event of a fire emergency or power outage.

Set: 8.0

Doors: 045

6 Hinge, Full Mortised, Hvy Wt ++	T4A3786-USA (NRP and Size as Required)	US26D MK 087100
2 Push Bar & Offset Pull (Back-to-Back Mount) ++	TBF15747 T5	US32D RO 087100
2 Surface Closer **	CLP9500T (HD PA STP Arm w/HO)	689 NO 087100
2 Kick Plate ++	K1050 10" high BEV CSK	US32D RO 087100
2 Silencer **	608	RO 087100

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Set: 9.0

Doors: 046

6 Hinges by Door Manufacturer **	Hinges by Door/Frame Manufacturer	OT
2 Push/Pull by Door Manufacturer **	Push/Pull by Door Manufacturer	OT
2 Surface Closer **	CLP9500T (HD PA STP Arm w/HO)	689 NO 087100
2 Drop Plate ++	9588	689 NO 087100
2 Blade Stop Spacer ++	9500-1/2SP or 5/8SP (as Required)	689 NO 087100

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Set: 10.0

Doors: 041

-

3 Hinge, Full Mortised, Hvy Wt ++	T4A3786-USA (NRP and Size as Required)	US26D MK 087100
1 Magnetic Lock **	M680EBD	630 SU 087100

1 Offset Pull ++	TBF157	US32D RO 087100
1 Automatic Opener ++	6211 / 6231 (As Required)	689 NO 087113
1 Kick Plate ++	K1050 10" high BEV CSK	US32D RO 087100
3 Silencer **	608	RO 087100
1 ElectroLynx Harness (Frame) **	QC-C3000P	MK 087100
1 Key Pad **	Linear Keypad	OT
1 Motion Sensor **	XMS	SU 087100
1 Auto Operator Actuator Switch **	505	NO 087100
1 Power Supply **	AQD (Size and Options as required)	SU 087100
1 Wiring Diagram	Elevation and Point to Point as Specified	OT

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Coordinate all Wiring and conduit with electrical contractor.

Operation:

- The door is normally closed and secured with the magnetic lock.
- Entering the correct code into the key pad will release the magnetic lock and activate the auto operator actuator on the secure side of the opening to allow manual or assisted entry.
- Assisted entry after entering the correct code into the keypad pressing the auto operator actuator switch to signal the auto operators to open the door for assisted entry.
- Assisted Egress from the unsecured side by pressing the auto operator actuator switch to signal the power supply to momentarily release the magnetic lock and activate the auto operator to open the doors for assisted egress.
- Manual Egress from the unsecured side is always available by pushing the doors open. Request to Exit motion sensor on the push side will release the magnetic lock when motion is detected near the push side of the door.
- Door Position Switch integrated in the magnetic lock will monitor the doors OPEN/CLOSED status.
- The magnetic lock is fail safe and will be deactivated in the absence of power to allow free entry or egress.

Set: 10.0

Doors: 041

3 Hinge, Full Mortised, Hvy Wt ++	T4A3786-USA (NRP and Size as Required)	US26D
MK	087100	
1 Magnetic Lock **	M680EBD	630 SU 087100
1 Offset Door Pull ++	TBF157	US32D RO 087100
1 Automatic Opener ++	6211 / 6231 (As Required)	689 NO 087100
1 Kick Plate ++	K1050 10" high BEV CSK	US32D RO 087100
3 Silencer **	608	RO 087100
1 ElectroLynx Harness (Frame) **	QC-C3000P	MK 087100

1 Key Pad **	Linear Keypad	OT
1 Motion Sensor **	<u>XMS</u>	SU 087100
1 Auto Operator Actuator Switch **	<u>505</u>	NO 087100
1 Power Supply **	<u>AQD (Size and Options as required)</u>	SU 087100
1 Wiring Diagram	Elevation and Point to Point as Specified	OT

Notes: ++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Coordinate all Wiring and conduit with electrical contractor.

Operation:

- The door is normally closed and secured with the magnetic lock.
- Entering the correct code into the key pad will release the magnetic lock and activate the auto operator actuator on the secure side of the opening to allow manual or assisted entry.
- Assisted entry after entering the correct code into the keypad pressing the auto operator actuator switch to signal the auto operators to open the door for assisted entry.
- Assisted Egress from the unsecured side by pressing the auto operator actuator switch to signal the power supply to momentarily release the magnetic lock and activate the auto operator to open the doors for assisted egress.
- Manual Egress from the unsecured side is always available by pushing the doors open. Request to Exit motion sensor on the push side will release the magnetic lock when motion is detected near the push side of the door.
- Door Position Switch integrated in the magnetic lock will monitor the doors OPEN/CLOSED status.
- The magnetic lock is fail safe and will be deactivated in the absence of power to allow free entry or egress.

Set: 11.0

Doors: 024

6 Hinge, Full Mortised, Hvy Wt ++	T4A3786-USA (NRP and Size as Required)	US26D MK 087100
1 Dust Proof Strike **	570	US26D RO 087100
2 Flush Bolt **	555 / 557 (As Required)	US26D RO 087100
1 Storeroom/Closet Lock ++	BAA 10XG04 LL	US26D SA 087100
1 LFIC Core **	Keyed per Owner's Direction	US15 SA 087100
2 Conc Overhead Stop ++	6-X36 (Size as Required)	630 RF 087100
2 Silencer **	608	RO 087100

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Set: 12.0

Doors: C321

6 Hinge, Full Mortised, Hvy Wt ++	T4A3786-USA (NRP and Size as Required)	US26D MK 087100
1 Dust Proof Strike **	570	US26D RO 087100
2 Flush Bolt **	555 / 557 (As Required)	US26D RO 087100
1 Storeroom/Closet Lock ++	BAA 70 10XG04 LL	US26D SA 087100
1 LFIC Core **	Keyed per Owner's Direction	US15 SA 087100
2 Surface Closer ++	CLP9500 (HD PA STP Arm)	689 NO 087100
2 Silencer **	608	RO 087100

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Set: 12.1

Doors: 042

3 Hinge, Full Mortised, Hvy Wt ++	T4A3786-USA (NRP and Size as Required)	US26D MK 087100
1 Storeroom/Closet Lock ++	BAA 10XG04 LL	US26D SA 087100
1 LFIC Core **	Keyed per Owner's Direction	US15 SA 087100
1 Surface Closer **	CLP9500 (HD PA STP Arm)	689 NO 087100
3 Silencer **	608	RO 087100

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Set: 13.0

Doors: A013, B008, C013

3 Hinge, Full Mortised, Hvy Wt ++	T4A3786-USA (NRP and Size as Required)	US26D MK 087100
1 Storeroom/Closet Lock ++	BAA 10XG04 LL	US26D SA 087100
1 LFIC Core **	Keyed per Owner's Direction	US15 SA 087100
1 Surface Closer (Tri-Pack) **	9500 (RA or PA Arm as Required)	689 NO 087100
1 Armor Plate ++	K1050 30" high CSK BEV	US32D RO 087100
1 Door Stop **	403 (or) 441CU (As Required)	US26D RO 087100
1 Gasketing ++	S88D (Head & Jambs)	PE 087100

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Set: 13.1

Doors: 048, 053

3 Hinge, Full Mortised, Hvy Wt ++	T4A3786-USA (NRP and Size as Required)	US26D MK 087100
1 Storeroom/Closet Lock ++	BAA 10XG04 LL	US26D SA 087100
1 LFIC Core **	Keyed per Owner's Direction	US15 SA 087100
1 Surface Closer (Tri-Pack) **	9500 (RA or PA Arm as Required)	689 NO 087100
1 Door Stop **	403 (or) 441CU (As Required)	US26D RO 087100
3 Silencer **	608	RO 087100

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Set: 14.0

Doors: 003, 006, 007, 014, 021, 022, 023, 033, 034

3 Hinge, Full Mortised, Hvy Wt ++	T4A3786-USA (NRP and Size as Required)	US26D MK 087100
1 Classroom Lock ++	BAA 10XG37 LL	US26D SA 087100
1 LFIC Core **	Keyed per Owner's Direction	US15 SA 087100
1 Door Stop **	403 (or) 441CU (As Required)	US26D RO 087100
3 Silencer **	608	RO 087100

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Where Existing Frame is to Remain, Review existing hardware preps and match door preps as required.

Set: 14.1

Doors: 008

3 Hinge, Full Mortised, Hvy Wt ++	T4A3786-USA (NRP and Size as Required)	US26D MK 087100
1 Classroom Lock ++	BAA 10XG37 LL	US26D SA 087100

1 LFIC Core **	Keyed per Owner's Direction	US15 SA 087100
1 Kick Plate ++	K1050 10" high BEV CSK	US32D RO 087100
1 Door Stop **	403 (or) 441CU (As Required)	US26D RO 087100
3 Silencer **	608	RO 087100

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Where Existing Frame is to Remain, Review existing hardware preps and match door preps as required.

Set: 15.0

Doors: 004A, 004B, 004C

3 Hinge, Full Mortised, Hvy Wt ++	T4A3786-USA (NRP and Size as Required)	US26D MK 087100
1 Classroom Lock ++	BAA 10XG37 LL	US26D SA 087100
1 LFIC Core **	Keyed per Owner's Direction	US15 SA 087100
1 Door Stop **	403 (or) 441CU (As Required)	US26D RO 087100
3 Silencer **	608	RO 087100

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Set: 16.0

Doors: 011, 012, 016

3 Hinge, Full Mortised, Hvy Wt ++	T4A3786-USA (NRP and Size as Required)	US26D MK 087100
1 Classroom Lock ++	BAA 10XG37 LL	US26D SA 087100
1 LFIC Core **	Keyed per Owner's Direction	US15 SA 087100
1 Surface Closer (Tri-Pack) ++	9500M (RA or PA Arm as Required)	689 NO 087100
1 Kick Plate ++	K1050 10" high BEV CSK	US32D RO 087100
1 Door Stop **	403 (or) 441CU (As Required)	US26D RO 087100
3 Silencer **	608	RO 087100

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Where Existing Frame is to Remain, Review existing hardware preps and match door preps as required.

Set: 16.1

Doors: 035

3 Hinge, Full Mortised, Hvy Wt ++	T4A3786-USA (NRP and Size as Required)	US26D MK 087100
1 Classroom Lock ++	BAA 10XG37 LL	US26D SA 087100
1 LFIC Core **	Keyed per Owner's Direction	US15 SA 087100
1 Surface Closer (Tri-Pack) ++	9500M (RA or PA Arm as Required)	689 NO 087100
1 Armor Plate ++	K1050 30" high CSK BEV	US32D RO 087100
1 Door Stop **	403 (or) 441CU (As Required)	US26D RO 087100
3 Silencer **	608	RO 087100

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Where Existing Frame is to Remain, Review existing hardware preps and match door preps as required.

Set: 17.0

Doors: 005

3 Hinge, Full Mortised, Hvy Wt ++	T4A3786-USA (NRP and Size as Required)	US26D MK 087100
1 Classroom Lock ++	BAA 10XG37 LL	US26D SA 087100
1 LFIC Core **	Keyed per Owner's Direction	US15 SA 087100
1 Surface Closer (Tri-Pack) ++	9500M (RA or PA Arm as Required)	689 NO 087100
1 Kick Plate ++	K1050 10" high BEV CSK	US32D RO 087100
1 Electromagnetic Holder **	998 x Voltage as Required	689 RF 087100
1 Gasketing ++	S88D (Head & Jambs)	PE 087100

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Operation:

Doors normally held open by electromagnetic holders and will be released to close upon activation of fire alarm.

Power to electromagnetic holders and relay to fire alarm by others.

Set: 18.0

Doors: [A208](#), [C214](#), [C314](#)

3 Hinge, Full Mortised, Hvy Wt ++	T4A3786-USA (NRP and Size as Required)	US26D MK 087100
1 Passage Latch ++	BAA 10XU15 LL	US26D SA 087100
1 Kick Plate ++	K1050 10" high BEV CSK	US32D RO 087100
1 Door Stop **	403 (or) 441CU (As Required)	US26D RO 087100
3 Silencer **	608	RO 087100

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Set: 19.0

Doors: [A103](#), [A107](#), [A108](#), [A109](#), [A112](#), [A113](#), [A116](#), [A119](#), [A120A](#), [A120B](#), [A201](#), [A205](#), [A207](#), [A209](#), [A212](#), [A213](#), [A218](#), [A220](#), [A224A](#), [A224B](#), [A301](#), [A305](#), [A306](#), [A307](#), [A310](#), [A311](#), [A314](#), [A317](#), [B101](#), [B105](#), [B107](#), [B109](#), [B113](#), [B116](#), [B119](#), [B120A](#), [B120B](#), [B201](#), [B205](#), [B207](#), [B209](#), [B213](#), [B216](#), [B219](#), [B220A](#), [B220B](#), [B301](#), [B305](#), [B306](#), [B307](#), [B311](#), [B314](#), [B317](#), [C102](#), [C105](#), [C108](#), [C109](#), [C112](#), [C113](#), [C114](#), [C118](#), [C201A](#), [C201B](#), [C202](#), [C205](#), [C208](#), [C212](#), [C213](#), [C215](#), [C219](#), [C301A](#), [C301B](#), [C302](#), [C305](#), [C307](#), [C309](#), [C312](#), [C313](#), [C315](#), [C319](#)

3 Hinge, Full Mortised, Hvy Wt ++	T4A3786-USA (NRP and Size as Required)	US26D MK 087100
1 Passage Latch ++	BAA 10XU15 LL	US26D SA 087100
1 Kick Plate ++	K1050 10" high BEV CSK	US32D RO 087100
1 Door Stop **	403 (or) 441CU (As Required)	US26D RO 087100
3 Silencer **	608	RO 087100

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Set: 20.0

Doors: [A206](#), [A219](#), [A221](#), [B106](#), [B108](#), [B206](#), [B208](#), [C216](#), [C316](#)

3 Hinge, Full Mortised, Hvy Wt ++	T4A3786-USA (NRP and Size as Required)	US26D MK 087100
1 Passage Latch ++	BAA 10XU15 LL	US26D SA 087100
1 Conc Overhead Stop ++	6-X36 (Size as Required)	630 RF 087100
1 Kick Plate ++	K1050 10" high BEV CSK	US32D RO 087100
3 Silencer **	608	RO 087100

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Set: 21.0

Doors: [A115](#), [A215](#), [A313](#), [A318](#), [B112](#), [B115](#), [B212](#), [B215](#), [B310](#), [B313](#), [B318](#), [C101](#), [C106](#), [C206](#), [C209](#), [C306](#)

3 Hinge, Full Mortised, Hvy Wt ++	T4A3786-USA (NRP and Size as Required)	US26D MK 087100
1 Passage Latch ++	BAA 10XU15 LL	US26D SA 087100
1 Conc Overhead Stop ++	6-X36 (Size as Required)	630 RF 087100
1 Kick Plate ++	K1050 10" high BEV CSK	US32D RO 087100
3 Silencer **	608	RO 087100

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Set: 22.0

Doors: 038

3 Hinge, Full Mortised, Hvy Wt ++	T4A3786-USA (NRP and Size as Required)	US26D MK 087100
1 Classroom Lock ++	BAA 70 10XG37 LL	US26D SA 087100
1 SFIC Core **	Keyed per Owner's Direction	US15 SA 087100
1 Surface Closer (Tri-Pack) ++	9500M (RA or PA Arm as Required)	689 NO 087100
1 Kick Plate ++	K1050 10" high BEV CSK	US32D RO 087100
1 Electromagnetic Holder **	998 x Voltage as Required	689 RF 087100
3 Silencer **	608	RO 087100

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Operation:

Doors normally held open by electromagnetic holders and will be released to close upon activation of fire alarm.

Power to electromagnetic holders and relay to fire alarm by others.

Set: 22.1

Doors: 044

3 Hinge, Full Mortised, Hvy Wt ++	T4A3786-USA (NRP and Size as Required)	US26D MK 087100
1 Passage Latch ++	BAA 10XU15 LL	US26D SA 087100
1 Surface Closer (Tri-Pack) ++	9500M (RA or PA Arm as Required)	689 NO 087100
1 Kick Plate ++	K1050 10" high BEV CSK	US32D RO 087100
1 Electromagnetic Holder **	998 x Voltage as Required	689 RF 087100
3 Silencer **	608	RO 087100

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Operation:

Doors normally held open by electromagnetic holders and will be released to close upon activation of fire alarm.

Power to electromagnetic holders and relay to fire alarm by others.

Set: 23.0

Doors: 039

3 Hinge, Full Mortised, Hvy Wt ++	T4A3786-USA (NRP and Size as Required)	US26D MK 087100
1 Classroom Lock ++	BAA 10XG37 LL	US26D SA 087100
1 Conc Overhead Stop ++	6-X36 (Size as Required)	630 RF 087100
1 Kick Plate ++	K1050 10" high BEV CSK	US32D RO 087100
3 Silencer **	608	RO 087100

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Set: 24.0

Doors: 050A

6 Hinge, Full Mortised, Hvy Wt ++	T4A3786-USA (NRP and Size as Required)	US26D MK 087100
2 Push Bar & Offset Pull (Back-to-Back Mount) ++	TBF15747 T5	US32D RO 087100
2 Surf Overhead Hold Open **	10-X26 (Size as Required)	630 RF 087100

2 Surface Closer (Tri-Pack) **	9500 (RA or PA Arm as Required)	689	NO	087100
2 Kick Plate ++	K1050 10" high BEV CSK	US32D	RO	087100
2 Silencer **	608		RO	087100

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Set: 25.0

Doors: 047A, 047B

3 Hinge, Full Mortised, Hvy Wt ++	T4A3786-USA (NRP and Size as Required)	US26D	MK	087100
1 Storeroom/Closet Lock ++	BAA 10XG04 LL	US26D	SA	087100
1 Surface Closer (Tri-Pack) **	9500 (RA or PA Arm as Required)	689	NO	087100
1 Armor Plate ++	K1050 30" high CSK BEV	US32D	RO	087100
1 Electromagnetic Holder **	998 x Voltage as Required	689	RF	087100
3 Silencer **	608		RO	087100

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Operation:

Doors normally held open by electromagnetic holders and will be released to close upon activation of fire alarm.

Power to electromagnetic holders and relay to fire alarm by others.

Set: 26.0

Doors: 050B

2 Track System	W60 x Length Required	PE	087100
4 Door Pull ++	BF T110 Mtg-Type 5	US32D	RO 087100

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Set: 27.0

Notes: NOT USED

Set: 28.0

Doors: 001A, 001B

1 Cylinder ++

type as required

US32D SA 087100

1

All Hardware Provided By Door
Supplier

Notes:

++ Product Meets BABA Qualifications

** Product may require a BABA waiver

Door is Push/Push. No Locking function.

END OF SECTION 087100

SECTION 10 1200 - DISPLAY CASES

PART 1 GENERAL

1.1. SECTION INCLUDES

- A. ~~Recessed display cases.~~
- B. Free-standing display cases.

1.2. RELATED REQUIREMENTS

- A. Section 06 1000 - Rough Carpentry: Blocking and supports.
- B. Section 09 2116 - Gypsum Board Assemblies: Concealed supports in metal stud walls.

1.3. REFERENCE STANDARDS

- A. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum; 2014 (2015 Errata).
- B. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2014.
- C. ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric); 2013.
- D. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass; 2012.

1.4. SUBMITTALS

- A. See Section 01 3300 Submittals for submittal procedures.
- B. Product Data: Submit complete printed data and installation details indicating products to be provided as specified.
 - 1) Submit color charts for selection by the Architect.
- C. Shop Drawings: Submit complete installation details. Include dimensioned elevations.
- D. Samples: Submit samples of material and trim to illustrate finish, color, and texture.

1.5. QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with at least three years of documented experience.
- B. Regulatory Requirements: Products shall meet requirements of the Americans with Disabilities Act Accessibility Guidelines (ADAAG) and local amendments and modifications.
- C. Installer: Installer specialized and experienced in work similar to that required for this project shall perform Installation.

1.6. DELIVERY, STORAGE AND HANDLING

- A. Deliver display cases and materials to the Project site with manufacturer's protective crate covering and do not open until ready for use.
- B. Protect display cases before, during, and after installation. In case of damage, immediately provide necessary repairs and replacements.

1.7. FIELD CONDITIONS

- A. Field Measurements: Verify field measurements for recessed application for display cases before preparation of shop drawings and before fabrication to ensure proper installation.

1.8. 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.
- C. Provide five year manufacturer warranty against defects and in materials, finish product and workmanship.

PART 2 PRODUCTS

2.1. DISPLAY CASES

- A. Manufacturers:
 - 1) Peter Pepper Products Model PMC-B 724224 Free-standing.
 - 2) Claridge Products and Equipment, Inc: www.claridgeproducts.com/#sle.
 - 3) Nelson Adams NACO: www.nelsonadamsnaco.com/#sle.
 - 4) The Tablet & Ticket Co.: <https://www.tabletandticket.com/custom-display-cases/school/>
 - 5) Blankenship Associates Inc.: <https://blankenshipassociates.com/products/display-cases>
- B. ~~Recessed Display Case: Factory fabricated wood framed display case with adjustable glass shelves, finished interior, and aluminum trim on face to cover edge of recessed opening.~~
 - 1) ~~Width: 3 feet.~~
 - 2) ~~Height: As indicated on drawings.~~
 - 3) ~~Depth: As indicated on drawings.~~
 - 4) ~~Components:~~
 - a. ~~Glazed Doors: Hinged.~~
 - 1) ~~Number of Doors: Two pair.~~
 - b. ~~Side Panels: Laminate faced substrate.~~

- c. ~~Back Panel: Laminate-faced.~~
 - d. ~~Top Panel: Laminate-faced substrate.~~
 - e. ~~Bottom Panel: Laminate-faced substrate.~~
- C. Free-Standing Display Case: Factory-fabricated aluminum-framed display case with adjustable glass shelves, finished interior.
 - 1) Width: 6 feet.
 - 2) Height: 42 inches.
 - 3) Depth: 24 inches.
 - 4) Components:
 - a. Glazed Doors: Sliding.
 - 1) Number of Doors: Two pair.
 - b. Side Panels: Tempered clear glass.
 - c. Back Panel: Termpered clear glass.
 - d. Top Panel: Tempered clear glass.
 - e. Bottom Panel: Laminate-faced substrate.
- 5) Free-Standing Display Case Base: Veneer plywood base to match display case interior.
- 6) Basis of Design Peter Pepper Products Model PMC-B 724224.

2.2. FABRICATION

- A. Comply with requirements indicated for materials, thickness, finishes, colors, designs, shapes, sizes, and details of construction.
- B. Welded Connections: Comply with AWS standards for recommended practices in shop welding. Provide welds behind finished surfaces without distortion or discoloration of exposed side. Clean exposed welded surfaces of welding flux and dress on exposed and contact surfaces.
- C. Mill joints to a tight, hairline fit.
- D. Pre-assemble signs in the shop. No visible fasteners.
- E. Form panels to required size and shape. Comply with requirements indicated for design, dimensions, finish, color, and details of construction.
- F. Coordinate dimensions and attachment methods to produce message panels with closely fitting joints. Align edges and surfaces with one another in the relationship indicated.
- G. Increase metal thickness or reinforce with concealed stiffeners or backing materials as required to produce surfaces without distortion, buckles, warp, or other surface deformations.

- 1) Fabricate frame from extruded aluminum. Corners to have hairline miters and be braced by means of internal aluminum angels. If welding is necessary, none should be visible. Frames shall have a continuous back-up member behind the door.

2.3. COMPONENTS

- A. Wood Case Construction: 3/4 inch 7-ply maple veneer plywood with manufacturer's standard stain.
- B. Aluminum Framed Case Construction: 1-1/2 inch by 2 inch extruded aluminum tube frame with tempered glass and laminate-faced infill panels.
- C. Aluminum Case Construction: Aluminum side, bottom, and top panels fabricated from extruded aluminum shapes.
- D. Face Frame Trim for Recessed Installation: 2 inch flat face dimension extruded aluminum trim mitered with corner clips and mechanical fasteners.
- E. Glazed Sliding Doors: (Free standing display case)
 - 1) 1/4 inch clear tempered glass with plastic finger pulls.
 - 2) Door track: Extruded aluminum glass shoe with bottom rollers and top plastic guide.
 - 3) Lock: Glass door cylinder lock.
- F. ~~Glazed Hinged Doors: (Recess mounted display cases)~~
 - 1) ~~1/4 inch clear tempered glass with polished edges.~~
 - 2) ~~Frameless Pivot Hinges: Satin Chrome Flush Mount Cabinet Pivot Hinges.~~
 - 3) ~~Lock: Glass door cylinder lock. Chrome Single Glass Door Lock—Randomly Keyed~~
- G. Glass Shelves:
 - 1) 1/4 inch clear tempered glass with flat-polished edges.
 - 2) Shelf Depth: As indicated on drawings.
 - 3) Shelves per Unit: As indicated on drawings.
- H. ~~Recessed Display Case Glass Shelf Support : adjustable in 1 inch increments along entire length of standard, drilled and countersunk for screws.~~
 - 1) ~~Shelf Support, For glass shelves, for screw fixing into drill hole Ø 5 mm~~
 - 2) ~~Steel, load bearing capacity 80 kg (in compliance with DIN EN 1727:1998-06), with lip, Nickel plated.~~
- I. Free-standing Display Case Shelf Standards and Brackets: Integral to case frame single-slotted channel standards for brackets adjustable in 1 inch increments along entire length of standard frame slot.
- J. Laminate Back Panel: Low-pressure laminate on one face of plywood substrate.

- 1) Laminate Color and Texture: As selected from manufacturer's full range.

2.4. MATERIALS

- A. Aluminum Extrusions for Framing and Trim: Alloy as recommended by manufacturer for construction and specified finish; nominal 1/8-inch wall thickness.
- B. Aluminum Extrusions: ASTM B221 (ASTM B221M), 6063 alloy, T5 temper.
 - 1) Finish: Factory anodized; AAMA 611: Color as selected from manufacturers standard line.
- C. Plywood: Softwood plywood with veneer core, waterproof glue, 3/4 inch thick.
- D. Heat-Strengthened and Fully Tempered Glass: ASTM C1048, Kind FT.

PART 3 EXECUTION

3.1. PREPARATION

- A. Rough openings, electrical pre-wiring, and final finishing are by other trades.

3.2. INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Locate fastening devices to secure cases securely to back and sides of rough opening.
- C. Install recessed display cases plumb and level in wall openings.
- D. Refer to drawings for display case mounting heights.
- E. Clean case and glass using manufacturers recommended procedures.
- F. Provide mitered and wrapped hairline joints for all trims.

3.3. ADJUSTING AND CLEANING

- A. Verify that all accessories are installed as detailed for each unit.
- B. At completion of work, clean glass surfaces, back panels and trim in accordance with manufacturer's recommendations leaving units ready for use.

3.4. CLOSEOUT ACTIVITIES

- A. See Section 01 7800 - Closeout Submittals, for closeout submittals.

END OF SECTION

SECTION 32 3119 - DECORATIVE METAL FENCES AND GATES

PART 1 GENERAL

1.1. SECTION INCLUDES

- A. Decorative aluminum fences.
- B. Automatic gate operators.

1.2. REFERENCE STANDARDS

- A. ASTM A276/A276M - Standard Specification for Stainless Steel Bars and Shapes; 2017.
- B. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2014.
- C. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum); 2014.
- D. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- E. UL 50 - Enclosures for Electrical Equipment, Non-Environmental Considerations; Current Edition, Including All Revisions.
- F. UL 50E - Enclosures for Electrical Equipment, Environmental Considerations; Current Edition, Including All Revisions.

1.3. SUBMITTALS

- A. See Section 01 3300 - Submittals, for submittal procedures.
- B. Product Data: Submit manufacturer's data sheets on each product to be used, including:
 - 1) Preparation instructions and recommendations.
 - 2) Storage and handling requirements and recommendations.
 - 3) Installation methods.
- C. Shop Drawings:
 - 1) Indicate plan layout, spacing of components, post foundation dimensions, hardware anchorage, gates, and schedule of components.
- D. Manufacturer's Warranty.

1.4. QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum five years documented experience.
- B. Installer Qualifications: Experienced with type of construction involved and materials and techniques specified and approved by fence manufacturer.

1.5. DELIVERY, STORAGE AND HANDLING

- A. Store materials in a manner to ensure proper ventilation and drainage. Protect against damage, weather, vandalism and theft.

PART 2 PRODUCTS

2.1. MANUFACTURERS

A. Decorative Metal Fences and Gates:

- 1) Alumi-Guard; Belmont: www.alumi-guard.com/sle.
- 2) Ameristar Perimeter Security, USA; Echelon Plus: www.ameristarfence.com.
- 3) Ideal Aluminum Products; Maine: www.ideal-ap.com/#sle.

B. Gate Operators:

- 1) Liftmaster.
- 2) Viking
- 3) Doorking

2.2. FENCES

- A. Fences: Complete factory-fabricated system of posts and panels, accessories, fittings, and fasteners; finished with electrodeposition coating, and having the following performance characteristics:
- B. Electro-Deposition Coating: Multi-stage pretreatment/wash with zinc phosphate, followed by epoxy primer and acrylic topcoat.
 - 1) Total Coating Thickness: 2 mils, minimum.
 - 2) Color: As selected by Architect from manufacturer's standard range.
- C. Aluminum: ASTM B221.
 - 1) Tubular Pickets, Rails and Posts: 6005-T5 alloy.
 - 2) Extrusions for Posts and Rails (Outer Channel): 6005-T5 alloy.
 - 3) Extrusions for Pickets and Rail (Inner Slide Channels): 6063-T5 alloy.
- D. Fasteners: ASTM A276/A276M, Type 302 stainless steel; finished to match fence components.

2.3. ALUMINUM FENCE

- A. Decorative Aluminum Fence System: Provide fence meeting the Test Load and Coating Performance requirements of ASTM F2408 for Industrial class.
 - 1) Fence Panels: 6 feet high by 8 feet long.
 - a. Panel Style: Three rail.

- b. Panel Strength: Capable of supporting 270 pounds minimum load applied at midspan without deflection.
- c. Attach panels to posts with manufacturer's standard panel brackets and recommended fasteners.
- d. Posts: Aluminum extrusions; 2-1/2 inches square.
- e. Rails: Extruded aluminum channels.
- f. Pickets: Extruded aluminum tubes.
- 1) Style: Pickets with finial extend above top rail.
- 2) Integrally Formed Finial: Spear point.
- g. Fasteners: Manufacturer's standard stainless steel bolts, screws, and washers; factory finish fasteners to match fence.
- h. Accessories: Aluminum castings, extrusions and cold-formed strips; factory finished to match fence.
- 1) Flat post cap.
- i. Flexibility: Capable of following variable slope of up to 1:4.
- j. Color: As selected by Architect from manufacturer's standard range.

B. ~~Decorative Aluminum Gates:~~

- 1) ~~Gate Panels: Manufacturer's standard decorative aluminum fence panels.~~
- 2) ~~Posts: Aluminum extrusions; 2 inches square.~~
- 3) ~~Rails and Frame: Welded aluminum extrusions; 2 inches by 3 inches.~~
- 4) ~~Hardware:~~
 - a. ~~Latch: Manufacturer's standard mechanism; factory finished galvanized steel.~~
- 5) ~~Operation: Automatic locking system.~~
 - a. ~~Operator: Comply with UL 325, Class III and ASTM F2200.~~
 - b. ~~Manufacturer's standard electric operating system with integral controls, remote latching and unlatching, safety devices, communication devices, and emergency vehicle access.~~
- 1) ~~Contractor shall connect digital entry system to existing power source and fire alarm system.~~
- 6) ~~Color: As selected by Architect from manufacturer's standard range.~~

2.4. Egress Security Man Gate and Hardware Assembly

- A. The man gate system shall conform to the Basis of Design Ameristar Exodus Egress Gate (Direct Bury) installation method and 1" picket w/ perforated metal, Pale w/ expanded metal, pale w/ perforated metal, anti-scale pale w/ expanded metal, or anti-scale pale w/ perforated metal) infill, manufactured by Ameristar Perimeter Security in Tulsa, Oklahoma. Other manufactures listed above are acceptable based on compliance with the basis of design specified here.
- B. Steel material for gate framework (i.e., jamb frame & gate), shall be galvanized prior to forming in accordance with the requirements of ASTM A653/A653M, with minimum yield strength of 45,000 psi (310 MPa). The steel shall be hot-dip galvanized to meet the requirements of ASTM A653/A653M with a minimum zinc coating weight of 0.90 oz/ft² (276 g/m²), Coating Designation G-90.
- C. Infill frame shall be 12ga steel. Expanded metal mesh shall be 3/4" x #9 flattened or Perforated metal mesh shall be 3/16" round x 1/2" x 18ga.
- D. Ornamental picket infill material shall consist of 1" square x 14 Ga. tubing for pickets. Pickets shall be spaced no greater than 5" o.c. Infill frame shall be 12ga steel. Expanded metal mesh shall be 3/4" x #9 flattened or Perforated metal mesh shall be 3/16" round x 1/2" x 18ga.
- E. If applicable - material for pales shall be 2.75" x .75" x 14ga. corrugated shape. Standard pale spacing shall be no greater than 6" o.c. or anti-scale pale spacing at no greater than 4.25" o.c.
- F. Gate shall be 1.75" x 14ga steel reinforced structural design with 1/4" plate reinforced hinge mounting.
- G. Hinges shall be stainless steel five knuckle bearing hinges with non-removable pin and stainless-steel fasteners.
- H. Gate Fabrication as follows:
 - 1) Gate shall be pre-drilled to accept appropriate hardware set. Infill frames shall be fabricated as a single unit. Frame shall be of welded construction inset with mesh filler, attachment to gate frame by means of security fasteners.
 - 2) Gate jamb frame shall be fully welded consisting of 3" x 12ga square tubing for main jamb, 1" square gate stop, and strike mounting block, with gate stop bumpers. Jamb to include an electrical access point with conduit point of connection. Electrical connection to gate by means of Power Transfer connection mounted in jamb and gate.
 - 3) Gate shall be pre-assembled.
 - 4) Gate threshold to be mounted with fasteners allowing for placement below grade or removal after gate installation.
 - 5) Gate shall have clear opening (from gate stop to face of gate open to 90 degrees) of 41.5" meeting IBC Group I-2 Egress requirements.
 - 6) Gate hardware to consist of exterior rated devices. Gate and hardware to be pre-assembled prior to shipping.
 - a. Exit Device. Detex V40 Series Exit Device with Alarm
 - b. Trim Set Lock Handle. Securetech Trim Handle.

c. Parallel Arm Closer. Norton 7500

- 7) The manufactured galvanized gate shall be subjected to a multi-stage pretreatment/wash, followed by a dual stage coating process consisting of a cathodic electro-coat epoxy primer base coat and an electrostatic spray topcoat application, a PermaCoat . Steel framework is subjected to a six-stage pretreatment/wash followed by an electrostatic spray application of PermaCoat Color System, a two-coat powder system. The base coat is a thermosetting epoxy powder coating (gray in color). The topcoat is a “no-mar” TGIC polyester powder coat finish with a minimum thickness of 2 mils (0.0508mm).

2.5. Cantilever Vehicular Sliding Gate Assembly

- A. Ornamental cantilever gates shall conform to the Basi of Design Ameristar® TransPort Traverse II® gate system, Classic design, manufactured by Ameristar Perimeter Security USA Inc., in Tulsa, Oklahoma. The project gate schedule shall include the following additional information for each cantilever gate included in the project scope: opening 18’-0” range opening, (standard height of 6’-0” height, direction of gate travel to the open position, right or left, viewing from outside fence line looking in) gate travel direction refer to drawings.
- B. The materials used for cantilever gate framing (uprights & diagonal bracing) shall be manufactured from ASTM A653 Steel with yield strength of 34,800 PSI, a tensile strength of 37,700PSI and a standard mill finish. The aluminum extrusions for top and bottom enclosed tracks shall be alloy and temper designation 6005-T5 to meet ASTM B221.
- C. Material for pickets shall be 1” square x 16 ga. steel pickets on gate systems less than 22’ openings, gate systems greater than 22’ openings shall have 1” square x 1/8” wall aluminum pickets. Picket on center spacing shall not exceed 5”. Pickets shall be securely fastened to face of top and bottom enclosed track extrusions.
- D. Material for gate uprights shall be 2 ½” X 16 ga. and diagonal bracing shall be 2” square x 16 ga. steel. The cross-sectional shape of the enclosed-track shall confirm to the manufacturers Traverse-Trak™ design with a single extrusion consisting of a 3.75” x 7” channeled support with integrated 3” x 3” enclosed-track raceway. Gates less than 18-foot openings shall be constructed as a single-track system, gates greater than 20-foot openings shall be constructed as a spliced track system.
- E. Steel material for fence posts and pickets shall be galvanized prior to forming in accordance with the requirements of ASTM A653/A653M, with minimum yield strength of 45,000 psi (310 MPa). The steel shall be hot-dip galvanized to meet the requirements of ASTM A653/A653M with a minimum zinc coating weight of 0.90 oz/ft2 (276 g/m2), Coating Designation G-90. Depending on application and gate size, material for gate support posts shall be 4” x 11 Ga., or 6” x 3/16”.
- F. Support carriage trolly assemblies, for the gates enclosed bottom track, shall have two mounting options: concrete slab or post mount bracket configuration, and shall support the vertical load of the gate. The gates center of gravity shall be centered on the bottom support carriage trolly assemblies. Installation of the carriage trolly assemblies shall be per manufacturer’s installation instructions.
- G. Gate frame uprights and diagonal bracing shall be prefabricated and pre-punched to accept frame fasteners. Enclosed track shall be pre-punched to accept gate uprights. Pickets shall be precut to specified length and predrilled to accept picket to track fasteners. Posts shall be precut to specified lengths.

- H. Top and bottom enclosed track extrusions shall be mechanically fastened to vertical gate uprights and intermediate supports, as required by assembly instructions. Diagonal bracing shall be mechanically fastened to vertical gate uprights and intermediate supports, as required by assembly instructions. Pickets shall be mechanically fastened to top and bottom enclosed track, as required by assembly instructions.

2.6. Automatic Gate Operators

- A. ~~Swinging~~ Cantilever Sliding Gates: Pre-wired, pedestal mounted gate operator for horizontal ~~swinging~~ **Cantilever Slide** gates, per ASTM F2200 and UL 325.
- 1) Class: Class I.
 - 2) Operating type: ~~Swing arm~~ **Cantilever Sliding Type**
 - 3) Control Functions: Open, pause, and close.
 - 4) Maximum Open/Close Time: 10 seconds.
 - 5) Access: Card **Reader tied to Using Agency Security System.**
 - 6) ~~Maximum gate weight: 500 pounds (187 kilograms).~~
 - 7) Horsepower Rating: Suitable for connected load.
 - 8) Entrapment Protection Devices: Provide sensing devices and safety mechanisms complying with UL 325.
 - a. Primary Device: Provide electric sensing edge, wireless sensing, NEMA 1 photo eye sensors, or NEMA 4X photo eye sensors as required with momentary-contact control device.
 - b. For Gates that will be automated, the contractor shall be responsible to ensure the gate, and installation, meet ASTM F2200 and UL325 Standards.**
 - 9) Enclosures: Comply with NEMA 250, and list and label as complying with UL 50 and UL 50E.
 - a. Environment Type per NEMA 250: Unless otherwise indicated, as specified for the following installation locations:
 - 1) Outdoor Locations: Type 3R.

PART 3 EXECUTION

3.1. EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2. INSTALLATION

- A. Install in accordance with manufacturer's instructions.

- B. Set fence posts in accordance with the manufacturer recommended spacing.
- C. When cutting rails immediately seal the exposed surfaces by:
 - 1) Removing metal shavings from cut area.
 - 2) Apply zinc-rich primer to thoroughly cover cut edge and drilled hole; allow to dry.
 - 3) Apply two coats of custom finish spray paint matching fence color.
 - 4) Failure to seal exposed surfaces in accordance with manufacturer's instructions will negate manufacturer's warranty.
- D. Space gate posts according to the manufacturers' drawings, dependent on standard out-to-out gate leaf dimensions and gate hardware selected.
 - 1) Base type and quantity of gate hinges o the application; weight, height, and number of gate cycles.
 - 2) Identify the necessary hardware required for the application on the manufacturer's gate drawings.
 - 3) Provide gate hardware by the manufacturer of the gate and install in compliance with manufacturer's recommendations.
- E. Cantilever Gate Installation; Cantilever support posts shall be set in concrete footers having a minimum depth of 48" (Note: In most cases, local soil, code restrictions and inclement weather conditions may require a greater depth). Posts shall be spaced according to gate specific submittal drawings. Safety Kit must be included if the gate is automated. The "Earthwork" and "Concrete" sections of this project manual shall govern material requirements for the concrete footer.
- F. Gate posts shall be spaced according to the manufacturers' drawings, dependent on clear opening. The manufacturers' gate drawings shall identify the necessary gate hardware required for the application. Gate hardware shall be provided by the manufacture of the gate and shall be installed per manufacturer's recommendations.
- G. Install operator in accordance with manufacturer's instructions and in accordance with NFPA 70.
- H. Gate to be installed per manufacturers gate installation instructions (written or video). For Gates that will be automated, the contractor shall be responsible to ensure the gate, and installation, meet ASTM F2200 and UL325 Standards.
- I. When cutting/drilling posts adhere to the following steps to seal the exposed steel surfaces; 1) Remove all metal shavings from cut area. 2) Apply zinc-rich primer to thoroughly cover cut edge and/or drilled hole; let dry. 3) Apply 2 coats of manufactures finish paint matching fence color. Failure to seal exposed surfaces per steps 1-3 above will negate warranty. Manufacturers spray cans or paint pens shall be used to prime and finish exposed surfaces; it is recommended that paint pens be used to prevent overspray. Use of non-manufactures parts or components will negate the manufactures' warranty.

3.3. ERECTION TOLERANCES

- A. Maximum Variation From Plumb: 1/4 inch.

- B. Maximum Offset From Indicated Position: 1 inch.
- C. Minimum Distance from Property Line: 6 inches.

3.4. FIELD QUALITY CONTROL

- A. See Section 01 4000 - Quality Requirements, for additional requirements.
- B. Layout: Verify that fence installation markings are accurate to design, paying attention to gate locations, underground utilities, and property lines.
- C. Post Settings: Randomly inspect three locations against design for:
 - 1) Hole diameter.
 - 2) Hole depth.
 - 3) Hole spacing.
- D. Fence Height: Randomly measure fence height at three locations or at areas that appear out of compliance with design.
- E. Gates: Inspect for level, plumb, and alignment.
- F. Workmanship: Verify neat installation free of defects.

3.5. CLEANING

- A. Leave immediate work area neat at end of each work day.
- B. Clean jobsite of excess materials; scatter excess material from post hole excavations uniformly away from posts. Remove excess material if required.
- C. Clean fence with mild household detergent and clean water rinse well.
- D. Remove mortar from exposed posts and other fencing material using a 10 percent solution of muriatic acid followed immediately by several rinses with clean water.
- E. Touch up scratched surfaces using materials recommended by manufacturer. Match touched-up paint color to factory-applied finish.

3.6. CLOSEOUT ACTIVITIES

- A. See Section 01 7800 - Closeout Submittals, for closeout submittals.
- B. See Section 01 7900 - Demonstration and Training, for additional requirements.
- C. Demonstrate proper operation of equipment to Owner's designated representative.
- D. Demonstration: Demonstrate operation of system to Owner's personnel.
 - 1) Use operation and maintenance data as reference during demonstration.
 - 2) Conduct walking tour of project.

3) Briefly describe function, operation, and maintenance of each component.

E. Training: Train Owner's personnel on operation and maintenance of system.

1) Use operation and maintenance manual as training reference, supplemented with additional training materials as required.

2) Provide minimum of two hours of training.

3.7. 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



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08/15/2024

OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT, DESIGN
AND CONSTRUCTION

MISSOURI VETERANS
COMMISSION

UPGRADES AND RENOVATIONS MISSOURI VETERANS HOME

2400 Veterans Memorial Dr,
Cape Girardeau, MO 63701

PROJECT #:	U1805-01
SITE #:	4703
FACILITY #:	55020
AI #:	29-043
# DATE:	DESCRIPTION:
1	07/10/2025 Addendum B2

DRAWN BY: AJC
CHECKED BY: DKS
DESIGNED BY: AMC

SHEET TITLE:
FRAMING PLAN WING

SHEET NUMBER: **S-202**

SHEET of
ISSUE DATE: 08/15/2024

ROOF FRAMING PLAN NOTES

- [illegible]

KEY PLAN

KEY PLAN

FRAMING PLAN - WING A

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



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Cape Girardeau, MO 63701

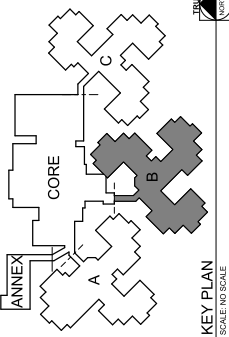
PROJECT #.: U1905-01
SITE #.: 4703
FACILITY #.: 29-043
FA #.: 29-043
J. DATE: DESCRIPTION:
1. 07/20/2025 Addendum #2

DRAWN BY: AJC
CHECKED BY: DKS
DESIGNED BY: AMC
SHEET TITLE:
FRAMING PLAN WING B

SHEET NUMBER:
S-203
of
SHEET
ISSUE DATE: 08/15/2024

ROOF FRAMING PLAN NOTES

- A. SEE S-301 FOR GENERAL STRUCTURAL NOTES.
B. SEE ARCHITECTURAL FOR DIMENSIONS NOT SHOWN.
C. SEE PLAN FOR BEAM NOTED THUS: W24X55-
T14 X 2 1/2".
D. ROOF CONSTRUCTION: WOOD ROOF SHEATHING (5/8" APA RATED SHEATHING -
MINIMUM 3/4" THICK) OVER 2" X 6" JOISTS (16" O.C.) OVER 2" X 6" RAFTERS (16" O.C.)
AND 3" MIN NOMINAL WIDTH OF NAILED FACE AT ADJOINING PANEL EDGES AND
PENETRATION BLOCKING REQUIRED AT ALL UNSUPPORTED EDGES.
E. COORDINATE SIZES AND LOCATIONS OF OPENINGS THROUGH FLOOR/ROOF DECK
WITH MECHANICAL CONTRACTOR.
F. FOR TYPICAL MOMENT CONNECTIONS, SEE 19S-402.
G. FOR SIMPLE FRAMED CONNECTIONS, SEE 19S-402.
H. STEEL CONNECTIONS:
1. INDICATES LOCATIONS OF SHEAR WALL.
2. SHEAR WALL SHEATHING REQUIREMENTS ARE AS FOLLOWS:
3. 2X7/16" STRUCTURAL PL W/ WOOD BOTH SIDES FASTENED WITH 8# AT 6" OC AND 8#
AT 12" OC.
4. 2X7/16" STRUCTURAL PL W/ WOOD BOTH SIDES FASTENED WITH 8# AT 6" OC AND 8#
AT 12" OC.
5. 2X7/16" STRUCTURAL PL W/ WOOD BOTH SIDES FASTENED WITH 8# AT 6" OC AND 8#
AT 12" OC.
6. 2X7/16" STRUCTURAL PL W/ WOOD BOTH SIDES FASTENED WITH 8# AT 6" OC AND 8#
AT 12" OC.
7. 2X7/16" STRUCTURAL PL W/ WOOD BOTH SIDES FASTENED WITH 8# AT 6" OC AND 8#
AT 12" OC.
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AT 12" OC.
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AT 12" OC.
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AT 12" OC.
16. 2X7/16" STRUCTURAL PL W/ WOOD BOTH SIDES FASTENED WITH 8# AT 6" OC AND 8#
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07/10/2025



**Farnsworth
GROUP**

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Farnsworth Group, Inc.
Missouri State Contract License #000744
Engineers | Architects | Surveyors | Scientists

100% BID SET
08/15/2024

OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT, DESIGN
AND CONSTRUCTION
MISSOURI VETERANS
COMMISSION

UPGRADES AND
RENOVATIONS
MISSOURI VETERANS
HOME

2403 Veterans Memorial Dr.
Cape Girardeau, MO 63701

PROJECT #: U105-01
SITE #: 6803
SHEET #: 20-0002
FAI #: 29-043
DATE: DESCRIPTION
1 07/10/2025 ACHENGLAM #2

DRAWN BY: SLV/AVR
CHECKED BY: NRB
SHEET TITLE:
**ENLARGED FLOOR
PLAN - WING A**

SHEET NUMBER:
A-110

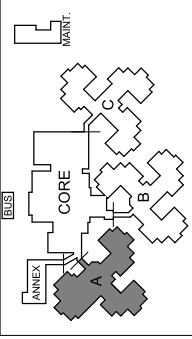
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ISSUE DATE: 08/15/2024

PLAN GENERAL NOTES

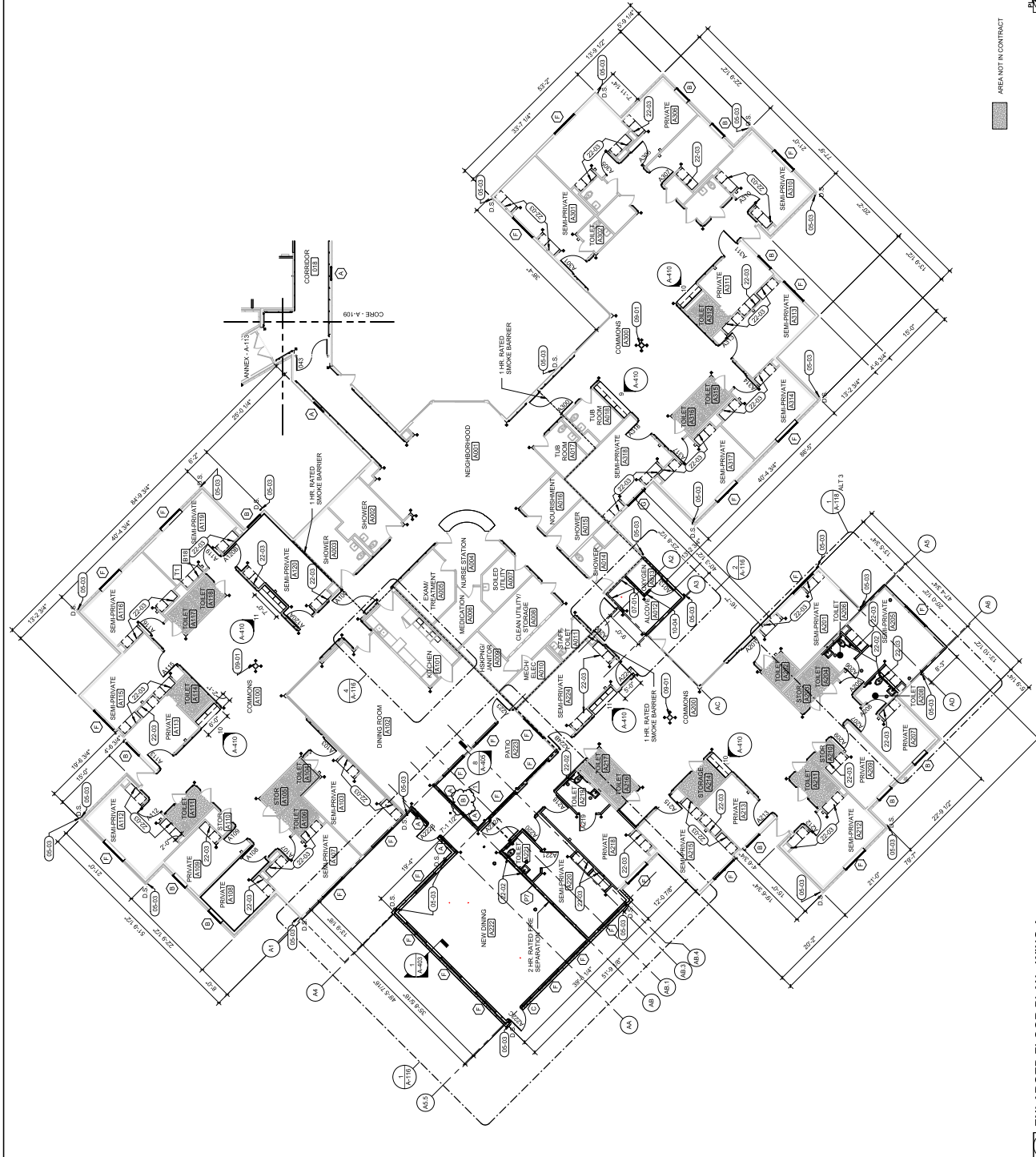
- SEE A-01 FOR PARTITION TYPES.
- DIMENSIONS ARE SHOWN TO FACE OF STRUCTURE WALL, STUD, CMU AND/OR CONCRETE. UNLESS OTHERWISE NOTED, DIMENSIONS TO EXISTING CONSTRUCTION ARE SHOWN TO CENTERLINE.
- ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESURE TREATED FLOOR LINE.
- USE GYP BOARD TYPE "M" AT ALL WET LOCATIONS. STOP BOARD AT 1/4" ABOVE FLOOR LINE.
- SEE LIFE SAFETY PLANS G-03 FOR LOCATION OF RATED PARTITIONS AND SEPARATION INFORMATION.
- INSTALL ALL DOORS WITH MINIMUM 1/4" INCHES CLEAR FROM INSIDE FACE OF PARTITION. MINIMUM 1/4" INCHES CLEAR FROM INSIDE FACE OF DOOR AND MINIMUM 1/4" ON OPPOSITE SIDE.
- IT IS THE RESPONSIBILITY OF EACH CONTRACTOR TO PROVIDE COMPLETE WORKING SYSTEMS FOR ALL NEW ELEMENTS.
- ALL WORK SHALL BE IN ACCORDANCE WITH CURRENT APPROPRIATE CODES, ORDINANCES, AND SPECIFICATIONS. UNLESS OTHERWISE SPECIFIED.
- STORE MATERIALS IN SUCH A MANNER AS NOT TO OVERSTRESS, OVERLOAD, OR OTHERWISE PUT AN UNSAFE LOAD ON ANY STRUCTURE DURING CONSTRUCTION.
- ALL NEW WORK SHALL BE PLUMB AND LEVEL UNLESS OTHERWISE NOTED.
- ALL FIRE RESISTANT CONSTRUCTION SHALL EXTEND TO STRUCTURE ABOVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENDING PARTITIONS, PARTITIONS, AND SHALL BE RESPONSIBLE FOR FILLING ALL VOIDS IN PARTITIONS ABOVE CEILING IN ORDER TO MAINTAIN DESIGNATED FIRE RESISTANCE.
- DISMISSED FLOOR MATERIALS SHALL MEET UNDER CENTER OF DOOR LEAF.
- EACH CONTRACTOR SHALL COORDINATE THEIR WORK WITH ALL OTHER TRADES.
- DO NOT SCALE DRAWINGS TO DETERMINE DIMENSIONS. IF A REQUIRED DIMENSION IS NOT SHOWN, THE CONTRACTOR SHALL VERIFY THE DIMENSION.
- DETAILS ARE ORIGINALLY TYPICAL AND ARE NOT TO BE CONSIDERED AS LIMITED TO THESE AREAS SPECIFICALLY INDICATED. REVIEW ANY QUESTIONS OR CONFLICTING INFORMATION WITH THE ARCHITECT PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL NOT CUT STRUCTURAL MEMBERS OR SETS IN A LOAD DEFLECTION RATIO.
- REFER TO STRUCTURAL DRAWINGS FOR FRAMING INFORMATION AND FRAMING DIMENSIONS.
- ALL NEW WORK SHALL BE LOCATED 4" FROM NEAREST WALL INTERSECTION UNLESS OTHERWISE NOTED.
- ALL APPLIANCES ARE TO BE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR UNLESS OTHERWISE NOTED OR SHOWN. VERIFY ALL APPLIANCE CONNECTIONS TO THE MAIN ELECTRICAL PANEL.
- PAINT ALL STEEL, DOORS, DOOR FRAMES, INTERIOR WOODEN LIFE FRAMES, LIFELINES AND OTHER EXPOSED METAL ITEMS UNLESS OTHERWISE NOTED OR SHOWN.
- FURNITURE IS SHOWN FOR REFERENCE ONLY AND IS NOT IN CONTRACT.
- EXISTING CONDITION INFORMATION SHOWN WITHIN THE PROJECT AREA IS FOR INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS TO THE ATTENTION OF THE ARCHITECT PRIOR TO DEMOLITION AND PROVIDE TEMPORARY BRACING OF EQUIPMENT MATERIALS OR OTHER DEVICES AS REQUIRED DURING AND AFTER DEMOLITION UNTIL NEW CONSTRUCTION IS IN PLACE.
- REMOVE ALL EXISTING VINYL, SINKS AND TRIMS WHERE COLLIDE ON EXTERIOR AND REPLACE WITH NEW INTERIOR CEMENT SINKS, TRIMS, AND SPOFFS AS SHOWN. COORDINATE WITH NEW CONSTRUCTION, AND VERIFY EXTENTS OF WORK IN FIELD.

KEYNOTES (BY DIVISION)

- DIVISION 01** NEW PREFINISHED METAL DOWNSPOUT, TYP.
B-01 NEW PREFINISHED METAL DOWNSPOUT, TYP.
DIVISION 02 EXISTING SINKS AND AIR BARRIER, INSTALL 1 LAYER TYPE "X" GYP BOARD OVER EXISTING PLASTER.
DIVISION 03 EXISTING SINKS AND AIR BARRIER, INSTALL 1 LAYER TYPE "X" GYP BOARD OVER EXISTING PLASTER.
DIVISION 04 EXISTING SINKS AND AIR BARRIER, INSTALL 1 LAYER TYPE "X" GYP BOARD OVER EXISTING PLASTER.
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DIVISION 72 EXISTING SINKS AND AIR BARRIER, INSTALL 1 LAYER TYPE "X" GYP BOARD OVER EXISTING PLASTER.
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DIVISION 99 EXISTING SINKS AND AIR BARRIER, INSTALL 1 LAYER TYPE "X" GYP BOARD OVER EXISTING PLASTER.
DIVISION 100 EXISTING SINKS AND AIR BARRIER, INSTALL 1 LAYER TYPE "X" GYP BOARD OVER EXISTING PLASTER.



KEY PLAN
SCALE: NO SCALE
AREA NOT IN CONTRACT



1 ENLARGED FLOOR PLAN - WING A
Scale: 3/32" = 1'-0"

SHEET of
ISSUE DATE: 08/15/2024

Scale: 1/4" = 1'-0"



07/10/2025



**Farnsworth
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20 ALLEN AVENUE, SUITE 200
ST LOUIS, MISSOURI 63119
(314) 962-7900 / info@farnsworthgroup.com

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MISSOURI VETERANS
COMMISSION

**UPGRADES AND
RENOVATIONS
MISSOURI VETERANS
HOME**

2400 Veterans Memorial Dr.
Cape Girardeau, MO 63011

PROJECT #.: U195-01
SHEET #.: 6803
PROJECT #.: 600744
FA #.: 29-043
DATE: DESCRIPTION
1. 07/10/2025 ADDITIONAL #2

DRAWN BY: AVR
CHECKED BY: NRB
DESIGNED BY: JH

SHEET TITLE:
**DOOR SCHEDULE,
ELEVATIONS**

SHEET NUMBER:

A-601

SHEET
of
ISSUE DATE: 08/15/2024

DOOR SCHEDULE

NO.	WIDTH	HEIGHT	THICK	MAT'L	FINISH	ELEV.	DOOR FRAME	MAT'L	FINISH	ELEV.	HEAD	TAIL	JAMB	THRESH	LEL	HWR	REMARKS
B108	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				21.0	ALT 3	
B109	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				21.0	ALT 3	
B110	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				21.0	ALT 3	
B111	4'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B112	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B113	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B114	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B115	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B116	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B117	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B118	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B119	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B120	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B121	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B122	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B123	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B124	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B125	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B126	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B127	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B128	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B129	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B130	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B131	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B132	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B133	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B134	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B135	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B136	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B137	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B138	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B139	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B140	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B141	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B142	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B143	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B144	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B145	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B146	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B147	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B148	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B149	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B150	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B151	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B152	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B153	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B154	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B155	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B156	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B157	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B158	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B159	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B160	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B161	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B162	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B163	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B164	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B165	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B166	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B167	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B168	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B169	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B170	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B171	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B172	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B173	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B174	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B175	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B176	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B177	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B178	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B179	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B180	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B181	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B182	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B183	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B184	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B185	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B186	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B187	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B188	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B189	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B190	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B191	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B192	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B193	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B194	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B195	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B196	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B197	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B198	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B199	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B200	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B201	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B202	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B203	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B204	3'-0"	7'-0"	1-3/4"	WD	STN	F	NM	PNT	1	6A-602	10A-602				15.0		
B205	3'-0"	7'-0"															

STATE OF MISSOURI
TIMOTHY W. PARSON,
GOVERNOR



08/15/2024



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MISSOURI VETERANS
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**UPGRADES AND
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MISSOURI VETERANS
HOME**

2400 Veterans Memorial Dr.
Cape Girardeau, MO 63701

PROJECT #: U1805-01
SITE #: 8803
INSTRUMENTATION #:
FA #:
DATE: DESCRIPTION:
1 07/01/2025 Addendum 2

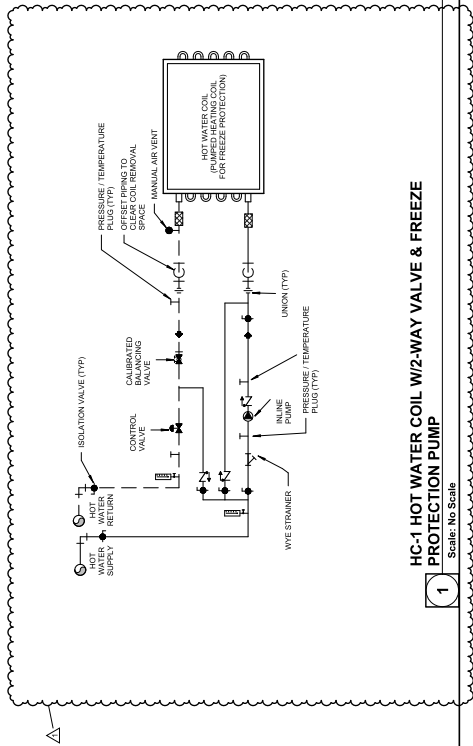
DRAWN BY: SHRMID
CHECKED BY: DAH
DESIGNED BY: AK

SHEET TITLE:
**MECHANICAL
DETAILS**

SHEET NUMBER:

M-504

SHEET 153.2 of 197
ISSUE DATE: 08/15/2024



**HC-1 HOT WATER COIL W/2-WAY VALVE & FREEZE
PROTECTION PUMP**

1 Scale: No Scale

KEYNOTES 4 GENERAL NOTES

1. PROVIDE REBAR FOR RECEPTACLE MOUNTED TO SIDE OF FOU TO POWER CONDUIT. REBAR SHALL BE 1/2" DIA. AND 6" LONG.
2. POWER CONNECTION FOR FIREPLACE IGNITOR.
3. PROVIDE POWER CONNECTION FOR EXISTING BINGO BOARD. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL TRIM. AND OWNER.
4. PROVIDE POWER CONNECTION FOR EXISTING BINGO BOARD. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL TRIM. AND OWNER.
5. REINSTALL EXISTING PANEL IN NEW LOCATION. RECONNECT ALL EXISTING PANELS TO NEW PANEL. RECONNECT ALL EXISTING PANELS TO NEW PANEL.
6. REINSTALL EXISTING PANEL IN NEW LOCATION. RECONNECT ALL EXISTING PANELS TO NEW PANEL. RECONNECT ALL EXISTING PANELS TO NEW PANEL.
7. PROVIDE POWER FOR FIREPLACE CONTROLLER SWITCH.
8. PROVIDE POWER FOR FIREPLACE CONTROLLER SWITCH.

A. EXCEPT AS NOTED, REUSE EXISTING CIRCUITS TO FEED NEW RECEPTACLES.

07/10/2025



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(314) 962-7902 / info@fng.com
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MISSOURI VETERANS
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**UPGRADES AND
RENOVATIONS
MISSOURI VETERANS
HOME**

2400 Veterans Memorial Dr.
Cape Girardeau, MO 63701

PROJECT #: U1905-01
SITE #.: 4703
CONTRACT #.: 29-043
FA #.: 29-043
J. DATE: DESCRIPTION
1 07/10/2025 BID SET

DRAWN BY: KMA
CHECKED BY: WRK
DESIGNED BY: TLA

SHEET TITLE:
POWER PLAN - CORE

SHEET NUMBER:

E-119

SHEET of
ISSUE DATE: 08/15/2024

